



TRANSMISSION SYSTEM
精密科技 传动世界

TR 系列斜齿轮减速电机

SERIES HELICAL GEARED MOTORS



企业简介

COMPANY PROFILE

浙江通宇变速机械股份有限公司位于中国东南沿海浙江省台州市，成立于1992年，是一家集产品研发、制造、销售、售后服务为一体的专业传动设备制造企业。

公司拥有国际领先的科研装备和专家团队，凭借先进的自动化加工和检测设备，制造出高品质的传动产品，经过多年不懈努力，已发展成为传动机械行业的知名企业。

公司旗下生产的  品牌减速机，产品多样，品质优异。主要产品有：**TNRV**系列蜗轮蜗杆减速机、**TWM**系列蜗轮蜗杆减速机、**VF**系列蜗轮蜗杆减速机、**UDL**系列无极变速器、**TKM / TKB**系列斜齿-准双曲面齿轮减速机、**WKM**系列斜齿-准双曲面齿轮减速机、**TRC**系列小型斜齿轮减速机、**TR**系列斜齿轮减速机、**TF**系列平行轴斜齿轮减速机、**TK**系列斜齿轮-伞齿轮减速机、**TS**系列斜齿轮-蜗轮蜗杆减速机、**TAB / TAD**系列高精行星减速机、畜牧机械专用**LA / AB**系列料线减速机、**GF**系列工业风扇减速机等。

产品广泛应用于轻工、化工、建筑建材机械、钢铁冶金、环境保护、煤炭矿业、汽车工业、港口建设、畜牧业等各大工农业领域，以及各种需减速要求的生产自动线、输送线、装配线等领域。产品遍及全国，并远销欧美、中东、大洋洲及东南亚等世界各地。

Established in **1992**, Zhejiang **TONGYU** Variable-speed Machinery Co., Ltd. Located in Taizhou city, Zhejiang province, southeast coast of China. Tongyu is a comprehensive enterprise which specializes in product R&D, production, sales, and after-sales service.

The company has the international leading scientific research equipment and the expert team, relies on the advanced automation processing and the inspection equipment, manufactures the high quality transmission product, after many years unremitting efforts, has developed into the transmission machinery profession well-known enterprise.

The **JMC** brand reducer produced by **Tongyu** has various products and excellent quality. The main products are **TNRV, TWM, VF, UDL, TKM, TKB, WKM, TRC, TR, TF, TK, TS, TAB, TAD, LA, AB, GF** series at present.

Products are widely used in light industry, chemical industry, building materials machinery, iron and steel metallurgy, environmental protection, coal mining, automobile industry, port construction, animal husbandry and other major industrial and agricultural fields, as well as a variety of need to slow down the requirements of the production of automatic lines, transmission lines, assembly lines and other fields. Products throughout the country, and exported to Europe and America, the Middle East, Oceania and southeast Asia and other parts of the world.

We sincerely welcome you to **TONGYU**'s world of Reducers.

该样本为最新版本，可替代以往的任何版本及修改。如果你是通过非正式渠道取得，不能保证是最新内容，可在本公司网站上查阅 www.china-tongyu.com。

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1. 概述

TR系列斜齿轮减速电机是在模块组合体系的基础上设计的新一代机电一体化产品，可分别与普通、制动、防爆、变频、伺服、IEC等电机组合，可在立体空间六个方位任意安装。该产品广泛适用于轻纺、食品、啤酒饮料、化工、自动扶梯、金属加工、制纸、起重、塑料机械、木料加工、自动化仓储设备、冶金、烟草、环保、物流等驱动领域。

1.1 性能特点

1. 传动比覆盖范围广，分级精细；
2. 结构紧凑，要求空间小；
3. 振动小，低噪音，能耗低；
4. 设计精巧，可靠耐用，用途广泛；
5. 模块化、多种结构形式，可多种形式组合，

满足各种传动条件的需求。

TR系列斜齿轮减速电机由1级、2级或3级斜齿轮减速器和电机组成，斜齿轮采用优质合金钢材料，表面硬化处理，经过高精度设备加工成形。除TR..28箱体是铝合金外，其余为铸铁箱体，箱体经精密加工，确保形状与位置精度。满足承载能力强、寿命长、体积小、速比大、重量轻、效率高、噪音低的优越性能。

TR系列斜齿轮减速电机共有十几个机型号，可与TRF系列组合成多级减速。功率0.12-160KW，速比1.3-27001，转矩69-18000Nm。可根据用户要求进行任意连接(底脚、法兰)和多种安装位置的选择。

1. SUMMARIZE

TR Series helical gearmotor is a new generation mechanic-electrical integrated product, which designed basing on the modular system. It can be connected respectively with motors such as normal motor, brake motor, explosion-proof motor, frequency conversion motor, servo motor, IEC motor and so on. It can be mounted discretionary six orientation in solid space. This kind of product is widely used in drive fields such as textile, foodstuff, beverage, chemical industry, automatic arm ladder, automatic storage equipment, metallurgy, tobacco, environment-protection, logistics and so on.

1.1 PERFORMANCE CHARACTERISTICS

1. Transmission ratio with fine stage covers a wide range;
2. Compact structure takes up small room;
3. low vibration; low noise; low energy dissipation;
4. Refined design; reliable and wearable; wide usage;
5. Modular, multistructure, can be combined in many forms to meet needs of all kinds of transmission conditions.

TR Series helical gearmotor of 1-stage, 2-stage or 3-stage helical gears unit and motor. The helical gear which use the material of high quality alloy steel with the surface hardened takes shape through processing of high-precision equipment. Except the TR..28 housing with aluminum alloy, all are cast iron housing. housing is exactly processed to ensure the shape and position precision. And it reaches advantageous performance such as: strong bearing capacity, long service-life; small volume; big ratio; light weight, high efficiency, low noise.

TR Series helical gearmotor has more than ten models. Combined with TRF series, the multi-stage gear reduction can be achieved. Power 0.12-160KW; Ratio 1.3-27001; Torque 69-18000Nm. It can connect (foot, flange) discretionary and use multi-mounting positions according to customers' requirements.

2. 产品图片 / PRODUCT PICTURE



TR..MY..



TRF..MY..



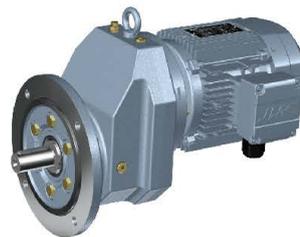
TR..F..MY..



TRZ..MY..



TRX..MY..



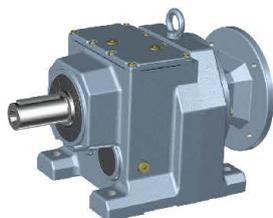
TRXF..MY..



TR../TRF..MY..



TRF../TRF..MY..



TR..AM(IEC)..



TRF..AM(IEC)..

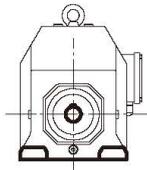
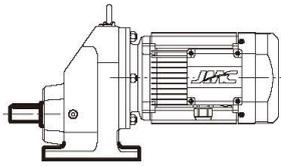


TR..AD..



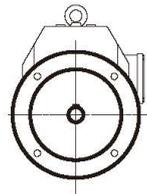
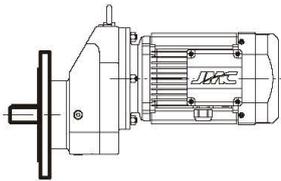
TRF..AD..

2.2 设计方案 / designs



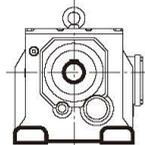
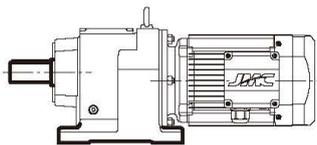
TRX..MY..

底脚安装单级斜齿轮减速电机
Single-stage foot-mounted helical geared motor



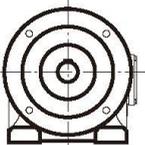
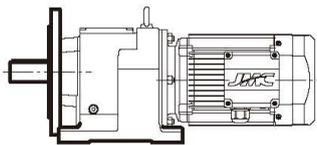
TRXF..MY..

法兰安装单级斜齿轮减速电机
Single-stage flange-mounted helical geared motor



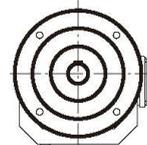
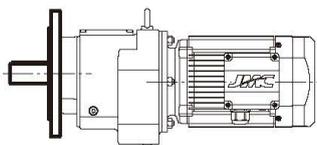
TR..MY..

底脚安装斜齿轮减速电机
Foot-mounted helical geared motor



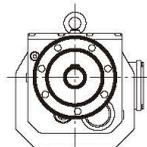
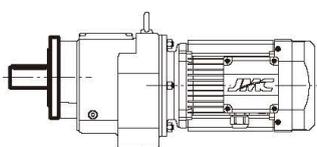
TR..F MY..

底脚法兰安装斜齿轮减速电机
Foot and flange-mounted helical geared motor



TRF..MY..

法兰安装斜齿轮减速电机
Flange-mounted helical geared motor



TRZ..MY..

B14 法兰安装斜齿轮减速电机
B14 flange-mounted helical geared motor

3. 型号说明 / MODEL ILLUMINATE

TR F 88 II - MY 112 M 4 / BMG / HF / TF - 27.88 - M6 / 270°

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

| No | 说 明 | Comments |
|----|---|---|
| 1 | TR: 减速器系列代号 | TR: code for gear units series |
| 2 | 1). 无代号表示底脚安装 2). F: B5 形式法兰安装 3). Z: B14 形式法兰安装 4). X: 单级传动底脚安装 5). XF: 单级传动法兰安装 | 1). no code means foot-mounted 2). F: B5 flange mounted 3). Z: B14 flange mounted 4). X: single-stage foot-mounted 5). XF: single-stage flange-mounted |
| 3 | 减速器规格号28、38、... .. | specification code of gear units 28, 38, |
| 4 | 1). 无代号表示底脚安装, 无法兰 2). F: 底脚安装, B5形式输出法兰 3). I、II、III: B5形式输出法兰规格, 默认I 可以不写 | 1) no code means foot-mounted, no flange 2) F: foot-mounted, B5 output flange 3) I, II, III: B5 output flange specification, default I not to write out is ok |
| 5 | 1). MY: 电动机代号 2). AM: IEC 输入连接器 3). AD: 轴输入连接器 | 1). MY: motor code 2). AM: IEC input couplings 3). AD: Input shaft couplings |
| 6 | 电动机规格代号(电机中心高) | specification code of motor (high in motor centre) |
| 7 | 定子铁芯长度代号D、K、L、M、ML、N、S | length code of stator core D, K, L, M, ML, N, S |
| 8 | 电动机极数2、4、6、8 | pole number of motor 2, 4, 6, 8 |
| 9 | 1). 无代号表示无制动器 2). BMG: 制动器 | 1). no code means no brake 2). BMG: brake |
| 10 | 1). 无代号表示无手动释放装置 2). HF: 手动释放装置带自锁功能 3). HR: 手动释放装置不带自锁功能 | 1). no code means no manual release device 2). HF: manual release device with self-locking function 3). HR: manual release device without self-locking function |
| 11 | 1). 无代号表示无电机热保护装置 2). TF: 电机热保护装置 | 1). no code means no motor heat-protection device 2). TF: motor heat- protection device |
| 12 | 减速器传动比 i | transmission ratio of gear units i |
| 13 | M1: 安装方位, 默认安装方位M1可以不写 | M1: mounting positio, default mounting position M1 not to write out is ok |
| 14 | 电机接线盒位置, 默认位置0°(R)可以不写 | Position diagram for motor terminal box default position 0°(R) not to write out is ok |

示例 Example: **TR48 - MY71D4 - 121.87**

TRF58III - AM80 - 80.55

TRXF68 - MY90S4 / BMG - 1.86 - M1 / R

4. 选型相关参数

4.1 功率 P

$$P_1 = \frac{P_2}{\eta} \text{ [kW]}$$

$$P_{1n} \geq P_1 \cdot f_s \text{ [kW]}$$

| | |
|----------|--------|
| P_1 | 输入功率 |
| P_2 | 输出功率 |
| P_{1n} | 电机额定功率 |
| f_s | 使用系数 |
| η | 传动效率 |

TR系列齿轮减速器的3级齿轮效率 η 为94%，2级齿轮 η 为96%，1级齿轮 η 为98%。

4.2 转速 n

| | |
|-------|---------|
| n_1 | 减速器输入转速 |
| n_2 | 减速器输出转速 |

若是齿轮箱外部传动装置驱动，为了优化工作条件和提高使用寿命，建议使用1400r/min或更低转速。允许输入较高的输入转速，但在这种情况下，额定扭矩 M_2 会下降。

4.3 传动比 i

$$i = \frac{n_1}{n_2}$$

传动比通常为小数，在选型表中保留两位小数。

4.4 扭矩 M

$$M_2 = \frac{9550 \cdot P_1 \cdot \eta}{n_2} \text{ [Nm]}$$

$$M_{2n} \geq M_2 \cdot f_s \text{ [Nm]}$$

| | |
|----------|--------|
| M_2 | 输出扭矩 |
| M_{2n} | 选用输出扭矩 |
| P_1 | 输入功率 |
| η | 传动效率 |
| f_s | 使用系数 |

4.5 使用系数 f_s

使用减速器时，应考虑一定的使用系数 f_s ，它是根据每天的运转时间和启停频率 Z 确定的。根据惯性加速系数确定三种负载类型，

4. RELEVANT PARAMETER

4.1 Power P

$$P_1 = \frac{P_2}{\eta} \text{ [kW]}$$

$$P_{1n} \geq P_1 \cdot f_s \text{ [kW]}$$

| | |
|----------|---------------------------|
| P_1 | Input power |
| P_2 | Output power |
| P_{1n} | Rated power driving motor |
| f_s | Service factor |
| η | Transmission efficiency |

The efficiency of TR Series gear units varies with the number of gear stages, between 94 % (3-stage), 96%(2-stage) and 98 % (1-stage).

4.2 Rotation speed n

| | |
|-------|-------------------------|
| n_1 | Gear units input speed |
| n_2 | Gear units output speed |

If driven by the external gearing,1400r/min or lower rotation speed is suggested so as to optimize the working conditions and prolong the service life. Higher input rotation speed is permitted, but in this situation, the rated torque M_2 will be reduced.

4.3 Transmission ratio i

$$i = \frac{n_1}{n_2}$$

Usually transmission ratio is decimal fraction with 2 radix point tagged in selection tables.

4.4 Torque M

$$M_2 = \frac{9550 \cdot P_1 \cdot \eta}{n_2} \text{ [Nm]}$$

$$M_{2n} \geq M_2 \cdot f_s \text{ [Nm]}$$

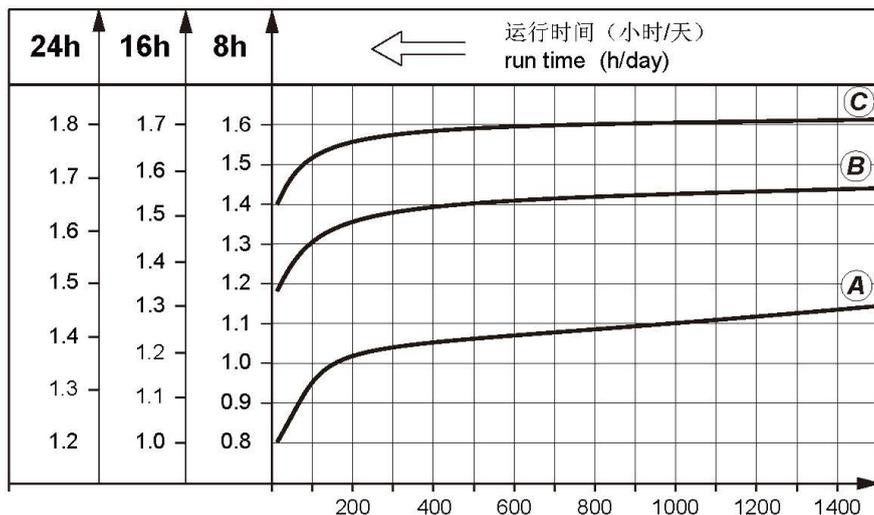
| | |
|----------|-------------------------|
| M_2 | Output torque |
| M_{2n} | Selected output torque |
| P_1 | Input power |
| η | Transmission efficiency |
| f_s | Service factor |

4.5 Service factor f_s

The effect of the driven machine on the gear unit is taken into account to a sufficient level of accuracy using the service factor f_s . The service factor is determined according to the daily operating time and the starting frequency Z .

在下图中可以读取实际应用的使用系数，按下图选取的使用系数必须小于或等于从性能参数表中提供的使用系数。

Three load classifications are considered depending on the mass acceleration factor. You can read off the service factor applicable to your application in following Figure. The service factor selected using this diagram must be less than or equal to the service factor as given in the performance parameter table.



图：使用系数 (fs)
Fig: Service factor (fs)

启动频率 Z (次/小时) #
start up frequency Z (1/h) #

启动频率 Z: 周期包括所有启动、制动的次数以及变速电机高低速变化时的次数。

starting frequency Z: The cycles include all starting and braking procedures as well as change overs from low to high speed.

4.5.1 负载类型

- Ⓐ 均匀冲击负载，允许惯性加速系数 $f_a \leq 0.2$
- Ⓑ 中等冲击负载，允许惯性加速系数 $f_a \leq 3$
- Ⓒ 重冲击负载，允许惯性加速系数 $f_a \leq 10$

负载类型见附录

4.5.1 load classifications

- Ⓐ Uniform, permitted mass acceleration factor $f_a \leq 0.2$
- Ⓑ Moderate shock load, permitted mass acceleration factor $f_a \leq 3$
- Ⓒ Heavy shock load, permitted mass acceleration factor $f_a \leq 10$

Load classifications see the addendum

4.5.2 惯性加速系数

惯性加速系数计算如下:

$$f_a = \frac{J_c}{J_m}$$

fa 惯性加速系数

Jc 所有外部传动惯量 (kgm²)

Jm 驱动电机的传动惯量 (kgm²)

如果惯性加速系数 $f_a > 10$ ，请与我们技术部联系。

4.5.2 Mass acceleration factor

The mass acceleration factor is calculated as follows:

$$f_a = \frac{J_c}{J_m}$$

fa Mass acceleration factor

Jc All external mass moments of inertia (kgm²)

Jm Mass moment of inertia on the motor end (kgm²)

If mass acceleration factors $f_a > 10$, please call our Technical Service.

为了保持减速器的使用寿命,从产品样本中所选择的使用系数 f_s 应等于或略高于计算出的使用系数 f_s 。

4.6 径向载荷 F_r

在决定影响径向载荷时,安装在轴端上的传动件类型必须考虑在内,不同类型的传动件对应不同传动附加系数 f_z ,列表如下:

| 传动件 Transmission element | 传动附加系数 F_z Transmission element factor F_z | 注释 Comments |
|-----------------------------|---|---------------------------------------|
| 齿轮 Gears | 1.00 | ≥ 17 齿 teeth |
| | 1.15 | < 17 齿 teeth |
| 链轮 Chain sprockets | 1.00 | ≥ 20 齿 teeth |
| | 1.25 | < 20 齿 teeth |
| | 1.40 | < 13 齿 teeth |
| V带轮 Narrow V-belt pulleys | 1.75 | 有预紧力作用 Influence of the tensile force |
| 平带轮 Flat belt pulleys | 2.50 | 有预紧力作用 Influence of the tensile force |
| 齿带轮 Toothed belt pulleys | 2.50 | 有预紧力作用 Influence of the tensile force |

作用在电机和齿轮轴上的径向载荷按如下公式计算:

$$F_r = \frac{M \cdot 2000 \cdot f_z}{d_0} \text{ [N]}$$

- F_r 作用在轴上的载荷 [N]
 M 作用在轴上的扭矩 [Nm]
 d_0 安装在轴上传动件的平均直径[mm]
 f_z 传动附加系数

决定许可径向载荷的依据是轴承额定使用寿命 **LH10** 的估算值 (根据 **ISO 281**)。对于特殊的运行条件,许可的径向载荷认为是修正后的使用寿命 L_{na} 。带实心轴的底脚安装式齿轮减速器的输出轴上的许可负荷 F_{r2} 罗列在选择表中,若其他形式,请联系我公司。

To keep the service-life of gear units, the use factor f_s selected from the catalogue must be equal or slightly higher than the calculated use factor f_s .

4.6 Radial loads F_r

When determining the resulting radial loads, the type of transmission elements, mounted on the shaft end must be considered. Various transmission elements are corresponding with following transmission element factors f_z :

The overhung loads exerted on the motor or gear shaft is then calculated as follows:

$$F_r = \frac{M \cdot 2000 \cdot f_z}{d_0} \text{ [N]}$$

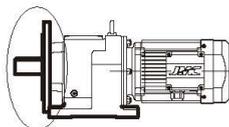
- F_r Resulting radial load [N]
 M Torque on the shaft [Nm]
 d_0 Mean diameter of the mounted transmission element in [mm]
 f_z Transmission element factor

The basis for determining the permitted radial loads is the computation of the rated service life **LH10** of the bearings (according to **ISO 281**). For special operating conditions, the permitted radial loads can be determined with regard to the modified service life L_{na} . The permitted radial loads F_{r2} for the output shafts of foot-mounted gear units with a solid shaft are listed in the selection tables. Contact our company in case of other versions.

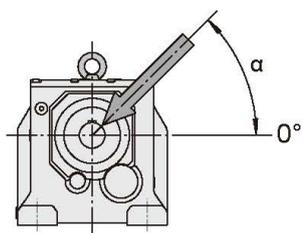


减速器性能参数表中的径向载荷数值是按照力作用在输出轴中点，径向力作用角度 α 和旋转方向按最不利条件考虑。

底脚和法兰一起安装的斜齿轮减速器 (TR..F.)，如果通过法兰安装传递力矩时 (如下图)，许用径向载荷为性能参数表中 F_{r2} 数值的50%。



根据下图来定义所受力：



F_X = 在X点的许用径向载荷 [N]

F_a = 许用轴向载荷 [N]

4.6.2 许用轴向载荷 F_a

如果没有径向载荷，那么轴向载荷 F_a （拉力和压紧力）允许是性能参数表中 F_{r2} 数值的50%。下列范围适用：

- TR系列(TR138到168除外)；

至于其它类型减速器请向通宇公司咨询，以防过大的轴向载荷或轴向与径向的合成载荷。

当作用点偏离出轴中点时，许用径向载荷须按以下公式来计算，取在x点的许可数值 F_{xL} （根据轴承的使用寿命）和 F_{xW} （根据轴的强度）中的较小一个，所计算的数值应用于 $M_{2\max}$ 。

根据轴承的使用寿命公式：

$$F_{xL} = F_{r2} \cdot \frac{a}{b+x} \text{ [N]}$$

根据轴的强度公式：

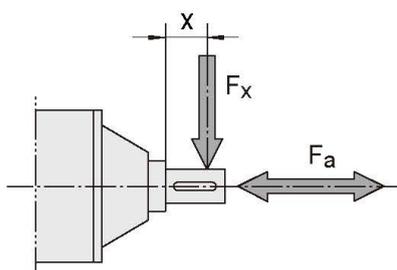
$$F_{xW} = \frac{c}{f+x} \text{ [N]}$$



The data refer to the radial force acting midway on the shaft end. Worst case conditions have been assumed for the force application angle α and the direction of rotation.

Foot and flange-mounted helical gear units (TR..F): A maximum of 50 % of the overhung load F_{r2} specified in the selection tables for torque transmission via flange mounting are permitted.

Force application is defined according to the following figure:



F_X = Permitted overhung load at point X [N]

F_a = Permitted axial force [N]

4.6.2 Permitted axial forces F_a

If there is no overhung load, then an axial force F_a (tension or compression) amounting to 50% of the overhung load given in the selection tables is permitted. This applies to the following geared motors:

- Helical geared motors except for TR..138... to TR..168...;

Contact Tongyu Company for all other types of gear units and in the event of significantly greater axial forces or combinations of overhung load and axial force.

The permitted radial loads given in the selection tables must be calculated using the following formula in the event of force application not in the center of the shaft end. The smaller of the two values F_{xL} (according to bearing service life) and F_{xW} (according to shaft strength) is the permitted value for the radial load at point x. Note that the calculations apply to $M_{2\max}$.

F_{xL} according to bearing service life:

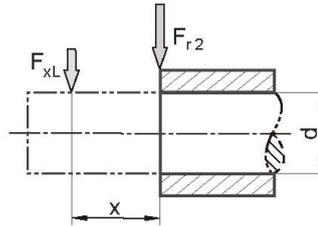
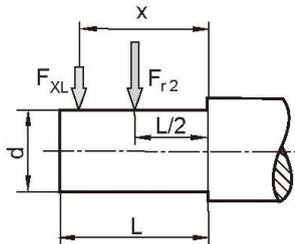
$$F_{xL} = F_{r2} \cdot \frac{a}{b+x} \text{ [N]}$$

F_{xW} from the shaft strength:

$$F_{xW} = \frac{c}{f+x} \text{ [N]}$$

Fr2 = 性能参数表中的许用径向载荷 ($x = L/2$) [N]
x = 从轴肩到受力点的距离 [mm]
a, b, f = 减速器径向转化常量 [mm]
c = 减速器径向转化常量 [Nmm]

Fr2 Permitted overhung load ($x = L/2$) for foot-mounted gear units according to the selection tables in [N]
x Distance from the shaft shoulder to the force application point in [mm]
a, b, f Gear unit constant for overhung load conversion [mm]
c Gear unit constant for overhung load conversion [Nmm]



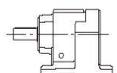
减速器径向转化常量 / Gear unit constants for overhung load conversion

| 减速器型号 Gear unit type | a [mm] | b [mm] | c [Nmm] | f [mm] | d [mm] | L [mm] | 减速器型号 Gear unit type | a [mm] | b [mm] | c [Nmm] | f [mm] | d [mm] | L [mm] |
|-------------------------|--------|--------|--------------------|--------|--------|--------|-------------------------|--------|--------|--------------------|--------|--------|--------|
| TRX58 | 43.5 | 23.5 | 1.51×10^5 | 34.2 | 20 | 40 | TR58 | 147.5 | 112.5 | 3.77×10^5 | 18 | 35 | 70 |
| TRX68 | 52.5 | 27.5 | 2.42×10^5 | 39.7 | 25 | 50 | TR68 | 168.5 | 133.5 | 2.51×10^5 | 0 | 35 | 70 |
| TRX78 | 60.5 | 30.5 | 1.95×10^5 | 0 | 30 | 60 | TR78 | 173.7 | 133.7 | 3.97×10^5 | 0 | 40 | 80 |
| TRX88 | 73.5 | 33.5 | 7.69×10^5 | 48.9 | 40 | 80 | TR88 | 216.7 | 166.7 | 8.47×10^5 | 0 | 50 | 100 |
| TRX98 | 86.5 | 36.5 | 1.43×10^6 | 53.9 | 50 | 100 | TR98 | 255.5 | 195.5 | 1.19×10^6 | 0 | 60 | 120 |
| TRX108 | 102.5 | 42.5 | 2.47×10^6 | 62.3 | 60 | 120 | TR108 | 285.5 | 215.5 | 2.06×10^6 | 0 | 70 | 140 |
| TR28 | 106.5 | 81.5 | 1.56×10^5 | 11.8 | 25 | 50 | TR138 | 343.5 | 258.5 | 6.14×10^6 | 30 | 90 | 170 |
| TR38 | 118 | 93 | 1.24×10^5 | 0 | 25 | 50 | TR148 | 402 | 297 | 8.65×10^6 | 33 | 110 | 210 |
| TR48 | 137 | 107 | 2.44×10^5 | 15 | 30 | 60 | TR168 | 450 | 345 | 1.26×10^7 | 0 | 120 | 210 |

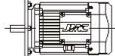
4.7 选型表注释

表示电机与减速器的组合是可行的
 表示电机与减速器的组合是不可行的

* 表示速比可除尽
P_{1n} 电机额定功率 [kW];
n₂ 输出转速 [r/min];
M_{2n} 输出扭矩 [Nm];
M_{2 max} 最大允许输出扭矩 [Nm];
F_{r2} 输出轴径向载荷 [N];
i 减速器传动比
f_s 使用系数



减速器型号



电机型号

page 外形尺寸表页码

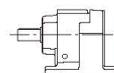
4.7 Selection tables comments

Combination with the motor in the header row **is possible**
 Combination with the motor in the header row **is not possible**

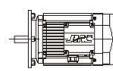
* Finite gear unit reduction ratio;
P_{1n} Rated power driving motor [kW];
n₂ Output speed [r/min];
M_{2n} Output torque [Nm];
M_{2 max} Max. permissible output torque [Nm]

F_{r2} Permissible overhung load output side [N]

i Gear unit ratio;
f_s Service factor;

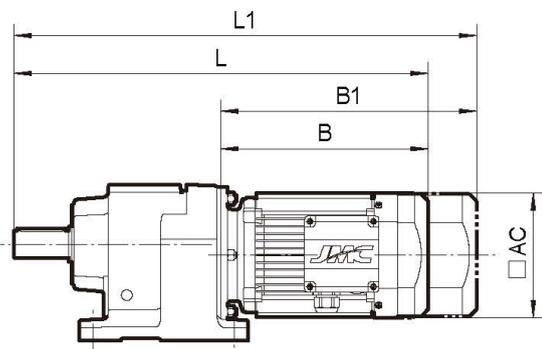


Gear unit type;

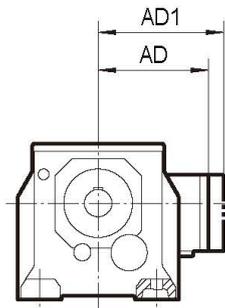


Motor type;

Page Dimension sheet page no;



- L** 减速电机总长度;
- L1** 带制动器或带（变频电机用）风机的减速电机总长度;
- B** 电机长度;
- B1** 带制动器或带（变频电机用）风机的电机长度;
- AC** 电机后罩尺寸;
- AD** 接线盒端到电机轴中心距离;
- AD1** 接线盒端到带制动器的电机轴中心距离.



- L** Total length of gearmotor;
- L1** Total length of gearmotor including brake or frequency converter
- B** Length of motor;
- B1** Length of brake motor or frequency converter;
- AC** Diameter of motor cover;
- AD** Center of motor shaft to top part of terminal box;
- AD1** Center of brake motor shaft to top part of terminal box.

5. 选型举例

5.1 减速电机

例：被驱动设备所需功率16kW，工作8小时/天，中等冲击，即可选使用系数 $f_s=1.3$ ，输出转速 $n_2=61.9r/min$ ，减速机要求M6底脚安装，则：

$$i = \frac{n_1}{n_2} = \frac{1400}{61.9} = 22.62$$

$$P_{1n} \geq P_1 \cdot f_s = \frac{P_2}{\eta} \cdot f_s = \frac{16}{0.96} \times 1.3 = 21.67 \text{ [kW]}$$

查TR系列性能参数表可确定减速电机型号为：

TR108 - MY180L4 - 22.62 - M6

5.2 减速器

例：被驱动设备所需扭矩为480Nm，工作6小时/天，均匀冲击负载，即可选使用系数 $f_s=1.1$ ，减速机要求法兰安装，输出转速 $n_2=2.5 r/min$ ，查性能参数表可知，只选能TR../TRF..组合形式。

$$i = \frac{n_1}{n_2} = \frac{1400}{2.5} = 560$$

$$M_{2n} \geq M_2 \cdot f_s = 480 \times 1.1 = 528 \text{ [Nm]}$$

$$P_{1n} \geq P_1 \cdot f_s = \frac{M_2 \cdot n_1}{9550 \cdot \eta \cdot i} \cdot f_s = \frac{480 \times 1400}{9550 \times 0.94 \times 0.96 \times 560} \times 1.1 = 0.153 \text{ [kW]}$$

查TR系列性能参数表可确定减速电机型号为：

TRF78 / TRF38 - MY63M4 - 560

5. SELECTION EXAMPLE

5.1 Gear motor

Example: Required power 16kW on driven machine, work for 8h/day, moderate shock load, so $f_s=1.3$, M6 foot-mounted, $n_2=61.9 r/min$

Choose type:

TR108 - MY180L4 - 22.62 - M6

5.2 Gear units

Example: Reclured torquc 480Nrn on driven machine, work 6h/day, uniform load, so $f_s=1.1$, flange-mounted, $n_2=2.5 r/min$, choose TR../TRF..

Choose type:

TRF78 / TRF38 - MY63M4 - 560

6. 减速器选型表 / GEAR UNIT SELECTION TABLES

6.1 减速器组合表 / Possible geometrical combinations

TRX..58

 $n_1=1400$ r/min

69Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM/MY63 AM/MY71 | AM80 MY80 | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM / MY132S |
|------------------|-------------------|---------------|-------|--------------------|--------------|--------------|----------------|----------------|-------------|
| 255 | 39 | 3100 | 5.50* | | | | | | |
| 276 | 36 | 3030 | 5.07 | | | | | | |
| 322 | 68 | 2640 | 4.35 | | | | | | |
| 369 | 69 | 2480 | 3.79 | | | | | | |
| 394 | 69 | 2420 | 3.55* | | | | | | |
| 446 | 65 | 2320 | 3.14 | | | | | | |
| 481 | 67 | 2170 | 2.91 | | | | | | |
| 530 | 69 | 1810 | 2.64* | | | | | | |
| 591 | 69 | 1500 | 2.37 | | | | | | |
| 686 | 69 | 1070 | 2.04 | | | | | | |
| 729 | 69 | 890 | 1.92* | | | | | | |
| 848 | 69 | 430 | 1.65 | | | | | | |
| 946 | 68 | 112 | 1.48 | | | | | | |
| 1075 | 63 | 132 | 1.30 | | | | | | |

TRX..68

 $n_1=1400$ r/min

134Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM/MY63 AM/MY71 | AM80 MY80 | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM / MY132S AM / MY132M |
|------------------|-------------------|---------------|-------|--------------------|--------------|--------------|----------------|----------------|----------------------------|
| 231 | 43 | 4010 | 6.07 | | | | | | |
| 270 | 75 | 3580 | 5.18 | | | | | | |
| 309 | 82 | 3350 | 4.53 | | | | | | |
| 326 | 80 | 3300 | 4.30* | | | | | | |
| 371 | 87 | 3090 | 3.77 | | | | | | |
| 438 | 100 | 2800 | 3.20* | | | | | | |
| 484 | 106 | 2640 | 2.89 | | | | | | |
| 551 | 118 | 2000 | 2.54 | | | | | | |
| 583 | 123 | 1530 | 2.40* | | | | | | |
| 686 | 134 | 230 | 2.04 | | | | | | |
| 753 | 126 | 225 | 1.86 | | | | | | |
| 870 | 114 | 245 | 1.61 | | | | | | |
| 1000 | 104 | 205 | 1.40* | | | | | | |

TRX..78

 $n_1=1400$ r/min

215Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM/MY63 AM/MY71 | AM80 MY80 | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM/MY132S AM/MY132M | AM/MY132ML AM/MY160M |
|------------------|-------------------|---------------|-------|--------------------|--------------|--------------|----------------|----------------|------------------------|-------------------------|
| 175 | 57 | 6330 | 8.00* | | | | | | | |
| 187 | 53 | 6200 | 7.47 | | | | | | | |
| 218 | 103 | 5600 | 6.41 | | | | | | | |
| 249 | 110 | 5300 | 5.63 | | | | | | | |
| 262 | 103 | 5240 | 5.35* | | | | | | | |
| 296 | 123 | 4900 | 4.73 | | | | | | | |
| 347 | 143 | 4500 | 4.04* | | | | | | | |
| 378 | 153 | 4290 | 3.70 | | | | | | | |
| 431 | 182 | 3200 | 3.25* | | | | | | | |
| 455 | 193 | 2560 | 3.08* | | | | | | | |
| 519 | 215 | 1110 | 2.70 | | | | | | | |
| 576 | 215 | 510 | 2.43 | | | | | | | |
| 657 | 200 | 435 | 2.13 | | | | | | | |
| 745 | 187 | 335 | 1.88* | | | | | | | |
| 838 | 173 | 315 | 1.67 | | | | | | | |
| 986 | 155 | 315 | 1.42 | | | | | | | |

TRX..88 $n_1=1400$ r/min **405Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM80 MY80 | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM/MY132S AM/MY132M | AM/MY132ML AM/MY160M AM/MY160L | AM180 MY180 |
|------------------|-------------------|---------------|-------|--------------|--------------|----------------|----------------|------------------------|--------------------------------------|----------------|
| 162 | 139 | 7890 | 8.65 | | | | | | | |
| 183 | 149 | 7490 | 7.63 | | | | | | | |
| 194 | 140 | 7380 | 7.20* | | | | | | | |
| 217 | 192 | 6850 | 6.45 | | | | | | | |
| 252 | 225 | 6320 | 5.56* | | | | | | | |
| 276 | 250 | 5980 | 5.07 | | | | | | | |
| 311 | 290 | 5500 | 4.50* | | | | | | | |
| 370 | 305 | 5030 | 3.78 | | | | | | | |
| 402 | 405 | 2730 | 3.48 | | | | | | | |
| 453 | 405 | 1950 | 3.09 | | | | | | | |
| 507 | 405 | 1200 | 2.76* | | | | | | | |
| 565 | 405 | 470 | 2.48 | | | | | | | |
| 651 | 385 | 42 | 2.15 | | | | | | | |
| 725 | 355 | 185 | 1.93 | | | | | | | |
| 875 | 315 | 74 | 1.60* | | | | | | | |
| 1005 | 290 | 74 | 1.39 | | | | | | | |

TRX..98 $n_1=1400$ r/min **595Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM80 MY80 | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM/MY132S AM/MY132M | AM/MY132ML AM/MY160M AM/MY160L | AM180 MY180 | AM/MY200 MY225M MY225S |
|------------------|-------------------|---------------|-------|--------------|--------------|----------------|----------------|------------------------|--------------------------------------|----------------|------------------------------|
| 170 | 225 | 9560 | 8.23 | | | | | | | | |
| 196 | 260 | 8950 | 7.16* | | | | | | | | |
| 213 | 300 | 8500 | 6.56 | | | | | | | | |
| 242 | 420 | 7630 | 5.79 | | | | | | | | |
| 285 | 395 | 7220 | 4.91 | | | | | | | | |
| 310 | 595 | 6180 | 4.52 | | | | | | | | |
| 347 | 595 | 5380 | 4.04 | | | | | | | | |
| 385 | 595 | 4530 | 3.64* | | | | | | | | |
| 424 | 595 | 3730 | 3.30 | | | | | | | | |
| 479 | 595 | 2810 | 2.92 | | | | | | | | |
| 530 | 595 | 1980 | 2.64 | | | | | | | | |
| 625 | 595 | 495 | 2.24* | | | | | | | | |
| 714 | 570 | 19 | 1.96 | | | | | | | | |
| 854 | 505 | 51 | 1.64 | | | | | | | | |
| 986 | 455 | 132 | 1.42 | | | | | | | | |

TRX..108 $n_1=1400$ r/min

830Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM100 MY100 | AM112 MY112 | AM/MY132S AM/MY132M | AM/MY132ML AM/MY160M AM/MY160L | AM180 MY180 | AM/MY200 AM/MY225S AM/MY225M |
|------------------|-------------------|---------------|-------|----------------|----------------|------------------------|--------------------------------------|----------------|------------------------------------|
| 211 | 460 | 9700 | 6.63* | | | | | | |
| 250 | 455 | 9080 | 5.61 | | | | | | |
| 270 | 695 | 7850 | 5.19 | | | | | | |
| 301 | 695 | 7450 | 4.65 | | | | | | |
| 333 | 830 | 6420 | 4.20* | | | | | | |
| 367 | 830 | 5550 | 3.81 | | | | | | |
| 414 | 830 | 4490 | 3.38 | | | | | | |
| 456 | 830 | 3600 | 3.07 | | | | | | |
| 530 | 830 | 2170 | 2.64* | | | | | | |
| 609 | 830 | 900 | 2.30 | | | | | | |
| 718 | 765 | 555 | 1.95 | | | | | | |
| 819 | 705 | 480 | 1.71 | | | | | | |
| 972 | 645 | 315 | 1.44 | | | | | | |

TR..18 $n_1=1400$ r/min

85Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM/MY63 AM/MY71 | AM80 MY80 |
|------------------|-------------------|---------------|-------|--------------------|--------------|
| 3Stage | | | | | |
| 17 | 85 | 1770 | 81.64 | | |
| 20 | 85 | 1770 | 70.39 | | |
| 21 | 85 | 1770 | 65.61 | | |
| 24 | 85 | 1770 | 57.35 | | |
| 26 | 85 | 1770 | 53.76 | | |
| 30 | 85 | 1770 | 47.44 | | |
| 32 | 85 | 1770 | 44.18 | | |
| 36 | 85 | 1770 | 38.61 | | |
| 39 | 85 | 1770 | 36.20 | | |
| 44 | 85 | 1770 | 31.94 | | |
| 49 | 85 | 1770 | 28.32 | | |
| 58 | 85 | 1650 | 24.07 | | |
| 2Stage | | | | | |
| 55 | 85 | 1690 | 25.23 | | |
| 60 | 85 | 1620 | 23.15 | | |
| 71 | 85 | 1500 | 19.71 | | |
| 82 | 85 | 1400 | 16.99 | | |
| 88 | 85 | 1350 | 15.84 | | |
| 101 | 85 | 1270 | 13.84 | | |
| 108 | 85 | 1230 | 12.98 | | |
| 122 | 81 | 1180 | 11.45 | | |
| 138 | 77 | 1140 | 10.15 | | |
| 162 | 72 | 1090 | 8.63 | | |
| 185 | 56 | 1040 | 7.55 | | |
| 199 | 55 | 1010 | 7.04 | | |
| 228 | 54 | 950 | 6.15 | | |
| 243 | 53 | 930 | 5.76 | | |
| 275 | 51 | 890 | 5.09 | | |
| 310 | 48 | 870 | 4.51 | | |
| 366 | 45 | 830 | 3.83 | | |

TR..28 $n_1=1400$ r/min **130Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM/MY63 AM/MY71 | AM80 MY80 | AM90 MY90 | AM100 MY100 |
|------------------|-------------------|---------------|--------|--------------------|--------------|--------------|----------------|
| 3Stage | | | | | | | |
| 10 | 130 | 4230 | 135.09 | | | | |
| 11 | 130 | 4230 | 123.91 | | | | |
| 13 | 130 | 4230 | 105.49 | | | | |
| 15 | 130 | 4230 | 90.96 | | | | |
| 17 | 130 | 4230 | 84.78 | | | | |
| 19 | 130 | 4230 | 74.11 | | | | |
| 20 | 130 | 4180 | 69.47 | | | | |
| 23 | 130 | 3980 | 61.3 | | | | |
| 25 | 130 | 3840 | 55.87 | | | | |
| 29 | 130 | 3630 | 48.17 | | | | |
| 31 | 130 | 3530 | 44.9 | | | | |
| 36 | 130 | 3350 | 39.25 | | | | |
| 38 | 130 | 3260 | 36.79 | | | | |
| 43 | 130 | 3100 | 32.47 | | | | |
| 49 | 130 | 2950 | 28.78 | | | | |
| 57 | 130 | 2770 | 24.47 | | | | |
| 2Stage | | | | | | | |
| 49 | 130 | 2940 | 28.37 | | | | |
| 54 | 130 | 2840 | 26.09 | | | | |
| 63 | 130 | 2660 | 22.32 | | | | |
| 72 | 130 | 2510 | 19.35 | | | | |
| 77 | 130 | 2440 | 18.08 | | | | |
| 90 | 130 | 2290 | 15.63 | | | | |
| 105 | 130 | 2140 | 13.28* | | | | |
| 118 | 129 | 1990 | 11.86 | | | | |
| 138 | 122 | 1890 | 10.13 | | | | |
| 149 | 122 | 900 | 9.41 | | | | |
| 172 | 116 | 870 | 8.16 | | | | |
| 183 | 112 | 900 | 7.63* | | | | |
| 212 | 106 | 880 | 6.59 | | | | |
| 250 | 99 | 880 | 5.60* | | | | |
| 280 | 95 | 860 | 5.00* | | | | |
| 328 | 87 | 920 | 4.27 | | | | |
| 350 | 85 | 910 | 4.00* | | | | |
| 415 | 79 | 900 | 3.37 | | | | |

TR..28/TRF18 $n_1=1400$ r/min **130Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 |
|------------------------|-------------------|---------------|------|--------------|------|
| 3Stage / 3Stage | | | | | |
| 0.16 | 130 | 4230 | 8612 | | |
| 0.19 | 130 | 4230 | 7425 | | |
| 0.20 | 130 | 4230 | 6921 | | |
| 0.23 | 130 | 4230 | 6050 | | |
| 0.27 | 130 | 4230 | 5217 | | |
| 0.30 | 130 | 4230 | 4661 | | |
| 0.34 | 130 | 4230 | 4073 | | |
| 0.40 | 130 | 4230 | 3516 | | |
| 0.44 | 130 | 4230 | 3160 | | |
| 0.51 | 130 | 4230 | 2763 | | |
| 0.58 | 130 | 4230 | 2414 | | |
| 0.66 | 130 | 4230 | 2110 | | |
| 0.75 | 130 | 4230 | 1862 | | |

TR..28/TRF18
 $n_1=1400$ r/min

130Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 |
|------------------------|-------------------|---------------|------|--------------|------|
| 3Stage / 3Stage | | | | | |
| 0.86 | 130 | 4230 | 1625 | | |
| 0.98 | 130 | 4230 | 1434 | | |
| 1.1 | 130 | 4230 | 1254 | | |
| 2Stage / 3Stage | | | | | |
| 0.77 | 130 | 4230 | 1822 | | |
| 0.89 | 130 | 4230 | 1580 | | |
| 0.96 | 130 | 4230 | 1464 | | |
| 1.1 | 130 | 4230 | 1270 | | |
| 1.3 | 130 | 4230 | 1100 | | |
| 1.4 | 130 | 4230 | 972 | | |
| 1.7 | 130 | 4230 | 840 | | |
| 1.9 | 130 | 4230 | 741 | | |
| 2.1 | 130 | 4230 | 654 | | |
| 2.5 | 130 | 4230 | 566 | | |
| 2.8 | 130 | 4230 | 499 | | |
| 3Stage / 2Stage | | | | | |
| 1.3 | 130 | 4230 | 1101 | | |
| 1.5 | 130 | 4230 | 962 | | |
| 1.7 | 130 | 4230 | 848 | | |
| 1.9 | 130 | 4230 | 743 | | |
| 2.2 | 130 | 4230 | 649 | | |
| 2.5 | 130 | 4230 | 567 | | |
| 2.8 | 130 | 4230 | 509 | | |
| 3.2 | 130 | 4230 | 432 | | |
| 3.6 | 130 | 4230 | 387 | | |
| 4.1 | 130 | 4230 | 339 | | |
| 4.7 | 130 | 4230 | 296 | | |
| 5.4 | 130 | 4230 | 259 | | |
| 6.1 | 130 | 4230 | 229 | | |
| 7.0 | 130 | 4230 | 200 | | |
| 7.9 | 130 | 4230 | 177 | | |
| 8.4 | 130 | 4230 | 166 | | |
| 9.3 | 130 | 4230 | 150 | | |
| 9.9 | 130 | 4230 | 141 | | |
| 11 | 130 | 4230 | 124 | | |
| 13 | 130 | 4230 | 110 | | |
| 15 | 130 | 4230 | 94 | | |
| 2Stage / 2Stage | | | | | |
| 3.2 | 130 | 4230 | 440 | | |
| 3.7 | 130 | 4230 | 381 | | |
| 4.3 | 130 | 4230 | 329 | | |
| 4.8 | 130 | 4230 | 290 | | |
| 5.5 | 130 | 4230 | 256 | | |
| 6.2 | 130 | 4230 | 227 | | |
| 6.9 | 130 | 4230 | 203 | | |
| 7.8 | 130 | 4230 | 179 | | |
| 9.0 | 130 | 4230 | 156 | | |
| 10 | 130 | 4230 | 135 | | |
| 12 | 130 | 4230 | 118 | | |
| 13 | 130 | 4230 | 104 | | |
| 16 | 130 | 4230 | 90 | | |

TR..38 $n_1=1400$ r/min **200Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM/MY63 AM/MY71 | AM80 MY80 | AM90 MY90 | AM100 MY100 |
|------------------|-------------------|---------------|--------|--------------------|--------------|--------------|----------------|
| 3Stage | | | | | | | |
| 10 | 200 | 4950 | 134.82 | | | | |
| 11 | 200 | 4950 | 123.66 | | | | |
| 13 | 200 | 4950 | 105.28 | | | | |
| 15 | 200 | 4950 | 90.77 | | | | |
| 17 | 200 | 4950 | 84.61 | | | | |
| 19 | 200 | 4950 | 73.96 | | | | |
| 20 | 200 | 4950 | 69.33 | | | | |
| 23 | 200 | 4950 | 61.18 | | | | |
| 25 | 200 | 4950 | 55.76 | | | | |
| 29 | 200 | 4950 | 48.08 | | | | |
| 31 | 200 | 4950 | 44.81 | | | | |
| 36 | 200 | 4760 | 39.17 | | | | |
| 38 | 200 | 4540 | 36.72 | | | | |
| 43 | 200 | 4120 | 32.40 | | | | |
| 49 | 200 | 3740 | 28.73 | | | | |
| 57 | 200 | 3240 | 24.42 | | | | |
| 2Stage | | | | | | | |
| 49 | 200 | 3690 | 28.32 | | | | |
| 54 | 185 | 3860 | 26.03 | | | | |
| 63 | 200 | 2970 | 22.27 | | | | |
| 73 | 200 | 2570 | 19.31 | | | | |
| 78 | 200 | 2390 | 18.05 | | | | |
| 90 | 200 | 2010 | 15.60 | | | | |
| 106 | 190 | 1880 | 13.25 | | | | |
| 118 | 183 | 1810 | 11.83 | | | | |
| 138 | 170 | 1820 | 10.11 | | | | |
| 148 | 167 | 1760 | 9.47 | | | | |
| 176 | 156 | 1720 | 7.97 | | | | |
| 210 | 144 | 1000 | 6.67 | | | | |
| 247 | 142 | 760 | 5.67 | | | | |
| 277 | 135 | 790 | 5.06 | | | | |
| 324 | 126 | 820 | 4.32 | | | | |
| 346 | 122 | 850 | 4.05 | | | | |
| 411 | 112 | 900 | 3.41 | | | | |

TR..38/TRF18 $n_1=1400$ r/min **200Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 |
|------------------------|-------------------|---------------|------|--------------|------|
| 3Stage / 3Stage | | | | | |
| 0.16 | 200 | 4950 | 8595 | | |
| 0.19 | 200 | 4950 | 7411 | | |
| 0.20 | 200 | 4950 | 6907 | | |
| 0.23 | 200 | 4950 | 6038 | | |
| 0.27 | 200 | 4950 | 5206 | | |
| 0.30 | 200 | 4950 | 4651 | | |
| 0.34 | 200 | 4950 | 4065 | | |
| 0.38 | 200 | 4950 | 3658 | | |
| 0.44 | 200 | 4950 | 3154 | | |
| 0.51 | 200 | 4950 | 2757 | | |
| 0.58 | 200 | 4950 | 2409 | | |
| 0.66 | 200 | 4950 | 2106 | | |
| 0.75 | 200 | 4950 | 1856 | | |
| 0.86 | 200 | 4950 | 1622 | | |

TR..38/TRF18
 $n_1=1400$ r/min

200Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 |
|------------------------|-------------------|---------------|------|--------------|------|
| 3Stage / 3Stage | | | | | |
| 0.98 | 200 | 4950 | 1431 | | |
| 1.1 | 200 | 4950 | 1251 | | |
| 2Stage / 3Stage | | | | | |
| 0.77 | 200 | 4950 | 1818 | | |
| 0.89 | 200 | 4950 | 1576 | | |
| 1.0 | 200 | 4950 | 1359 | | |
| 1.1 | 200 | 4950 | 1267 | | |
| 1.3 | 200 | 4950 | 1098 | | |
| 1.4 | 200 | 4950 | 970 | | |
| 1.7 | 200 | 4950 | 839 | | |
| 1.9 | 200 | 4950 | 740 | | |
| 2.1 | 200 | 4950 | 653 | | |
| 2.4 | 200 | 4950 | 577 | | |
| 2.8 | 200 | 4950 | 498 | | |
| 3Stage / 2Stage | | | | | |
| 1.3 | 200 | 4950 | 1099 | | |
| 1.5 | 200 | 4950 | 960 | | |
| 1.7 | 200 | 4950 | 847 | | |
| 1.9 | 200 | 4950 | 741 | | |
| 2.2 | 200 | 4950 | 647 | | |
| 2.5 | 200 | 4950 | 566 | | |
| 2.8 | 200 | 4950 | 508 | | |
| 3.2 | 200 | 4950 | 431 | | |
| 3.6 | 200 | 4950 | 387 | | |
| 4.1 | 200 | 4950 | 338 | | |
| 4.7 | 200 | 4950 | 296 | | |
| 5.4 | 200 | 4950 | 259 | | |
| 6.1 | 200 | 4950 | 228 | | |
| 7.0 | 200 | 4950 | 199 | | |
| 8.1 | 200 | 4950 | 172 | | |
| 9.3 | 200 | 4950 | 150 | | |
| 11 | 200 | 4950 | 130 | | |
| 11 | 200 | 4950 | 124 | | |
| 13 | 200 | 4950 | 110 | | |
| 15 | 200 | 4950 | 94 | | |
| 2Stage / 2Stage | | | | | |
| 3.2 | 200 | 4950 | 439 | | |
| 3.7 | 200 | 4950 | 378 | | |
| 4.3 | 200 | 4950 | 328 | | |
| 4.8 | 200 | 4950 | 289 | | |
| 5.3 | 200 | 4950 | 265 | | |
| 6.2 | 200 | 4950 | 226 | | |
| 6.9 | 200 | 4950 | 202 | | |
| 7.8 | 200 | 4950 | 179 | | |
| 9.0 | 200 | 4950 | 156 | | |
| 10 | 200 | 4950 | 135 | | |
| 11 | 200 | 4950 | 127 | | |
| 13 | 200 | 4950 | 104 | | |
| 16 | 200 | 4950 | 90 | | |

TR..48 $n_1=1400$ r/min **300Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM/MY63 AM/MY71 | AM80 MY80 | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM/MY132S |
|------------------|-------------------|---------------|--------|--------------------|--------------|--------------|----------------|----------------|-----------|
| 3Stage | | | | | | | | | |
| 7.9 | 300 | 5420 | 176.88 | | | | | | |
| 8.6 | 300 | 5420 | 162.94 | | | | | | |
| 10 | 300 | 5420 | 139.99 | | | | | | |
| 11 | 300 | 5420 | 121.87 | | | | | | |
| 12 | 300 | 5420 | 114.17 | | | | | | |
| 14 | 300 | 5420 | 100.86 | | | | | | |
| 15 | 300 | 5420 | 93.68 | | | | | | |
| 16 | 300 | 5420 | 84.90 | | | | | | |
| 18 | 300 | 5420 | 76.23 | | | | | | |
| 20 | 300 | 5420 | 68.54 | | | | | | |
| 22 | 300 | 5420 | 64.21 | | | | | | |
| 25 | 300 | 5420 | 56.73 | | | | | | |
| 27 | 300 | 5350 | 52.69 | | | | | | |
| 29 | 300 | 5150 | 47.75 | | | | | | |
| 33 | 300 | 4930 | 42.87 | | | | | | |
| 38 | 300 | 4630 | 36.93 | | | | | | |
| 40 | 300 | 4520 | 34.73 | | | | | | |
| 47 | 300 | 4240 | 29.88 | | | | | | |
| 52 | 300 | 4050 | 26.70 | | | | | | |
| 59 | 300 | 3840 | 23.59 | | | | | | |
| 2Stage | | | | | | | | | |
| 41 | 240 | 4690 | 33.79 | | | | | | |
| 45 | 220 | 4610 | 31.12 | | | | | | |
| 52 | 300 | 4050 | 26.74 | | | | | | |
| 60 | 300 | 3820 | 23.28 | | | | | | |
| 64 | 300 | 3710 | 21.81 | | | | | | |
| 73 | 295 | 3530 | 19.27 | | | | | | |
| 78 | 290 | 3390 | 17.89 | | | | | | |
| 86 | 275 | 3350 | 16.22 | | | | | | |
| 96 | 265 | 3230 | 14.56 | | | | | | |
| 112 | 250 | 3080 | 12.54 | | | | | | |
| 119 | 245 | 3020 | 11.79 | | | | | | |
| 138 | 230 | 2890 | 10.15 | | | | | | |
| 154 | 220 | 2780 | 9.07 | | | | | | |
| 175 | 205 | 2690 | 8.01 | | | | | | |
| 180 | 163 | 2720 | 7.76* | | | | | | |
| 201 | 159 | 2620 | 6.96 | | | | | | |
| 233 | 156 | 2470 | 6.00 | | | | | | |
| 248 | 155 | 2410 | 5.64* | | | | | | |
| 289 | 150 | 2280 | 4.85 | | | | | | |
| 323 | 146 | 2190 | 4.34 | | | | | | |
| 366 | 144 | 2090 | 3.83 | | | | | | |

TR..48/TRF38 $n_1=1400$ r/min **300Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 |
|------------------------|-------------------|---------------|-------|--------------|------|------|-------|
| 3Stage / 3Stage | | | | | | | |
| 0.10 | 300 | 5420 | 13598 | | | | |
| 0.11 | 300 | 5420 | 12472 | | | | |
| 0.13 | 300 | 5420 | 10619 | | | | |
| 0.15 | 300 | 5420 | 9155 | | | | |
| 0.16 | 300 | 5420 | 8534 | | | | |
| 0.19 | 300 | 5420 | 7460 | | | | |

TR..48/TRF38
 $n_1=1400$ r/min

300Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 |
|------------------------|-------------------|---------------|------|--------------|------|------|-------|
| 3Stage / 3Stage | | | | | | | |
| 0.20 | 300 | 5420 | 6993 | | | | |
| 0.23 | 300 | 5420 | 6171 | | | | |
| 0.25 | 300 | 5420 | 5624 | | | | |
| 0.29 | 300 | 5420 | 4849 | | | | |
| 0.31 | 300 | 5420 | 4520 | | | | |
| 0.35 | 300 | 5420 | 3951 | | | | |
| 0.38 | 300 | 5420 | 3704 | | | | |
| 0.43 | 300 | 5420 | 3268 | | | | |
| 0.48 | 300 | 5420 | 2898 | | | | |
| 0.57 | 300 | 5420 | 2463 | | | | |
| 2Stage / 3Stage | | | | | | | |
| 0.54 | 300 | 5420 | 2598 | | | | |
| 0.59 | 300 | 5420 | 2383 | | | | |
| 0.69 | 300 | 5420 | 2029 | | | | |
| 0.80 | 300 | 5420 | 1749 | | | | |
| 0.86 | 300 | 5420 | 1630 | | | | |
| 0.98 | 300 | 5420 | 1425 | | | | |
| 1.0 | 300 | 5420 | 1336 | | | | |
| 1.2 | 300 | 5420 | 1179 | | | | |
| 1.3 | 300 | 5420 | 1074 | | | | |
| 1.5 | 300 | 5420 | 927 | | | | |
| 1.6 | 300 | 5420 | 863 | | | | |
| 1.9 | 300 | 5420 | 755 | | | | |
| 2.0 | 300 | 5420 | 708 | | | | |
| 2.2 | 300 | 5420 | 624 | | | | |
| 2.5 | 300 | 5420 | 554 | | | | |
| 3.0 | 300 | 5420 | 471 | | | | |
| 3Stage / 2Stage | | | | | | | |
| 0.49 | 300 | 5420 | 2856 | | | | |
| 0.53 | 300 | 5420 | 2625 | | | | |
| 0.62 | 300 | 5420 | 2246 | | | | |
| 0.72 | 300 | 5420 | 1948 | | | | |
| 0.77 | 300 | 5420 | 1821 | | | | |
| 0.89 | 300 | 5420 | 1573 | | | | |
| 1.20 | 300 | 5420 | 1193 | | | | |
| 1.40 | 300 | 5420 | 1020 | | | | |
| 1.50 | 300 | 5420 | 955 | | | | |
| 1.70 | 300 | 5420 | 804 | | | | |
| 2.1 | 300 | 5420 | 673 | | | | |
| 2.4 | 300 | 5420 | 572 | | | | |
| 2.7 | 300 | 5420 | 510 | | | | |
| 3.2 | 300 | 5420 | 436 | | | | |
| 3.4 | 300 | 5420 | 408 | | | | |
| 4.1 | 300 | 5420 | 344 | | | | |
| 2Stage / 2Stage | | | | | | | |
| 2.6 | 300 | 5420 | 546 | | | | |
| 2.8 | 300 | 5420 | 502 | | | | |
| 3.3 | 300 | 5420 | 429 | | | | |
| 3.8 | 300 | 5420 | 372 | | | | |
| 4.0 | 300 | 5420 | 348 | | | | |
| 4.7 | 300 | 5420 | 301 | | | | |
| 5.5 | 300 | 5420 | 255 | | | | |
| 6.1 | 300 | 5420 | 228 | | | | |
| 7.2 | 300 | 5420 | 195 | | | | |
| 7.7 | 300 | 5420 | 182 | | | | |

TR..48/TRF38 $n_1=1400$ r/min **300Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 |
|------------------|-------------------|---------------|-----|--------------|------|------|-------|
| 2Stage / 2Stage | | | | | | | |
| 9.1 | 300 | 5420 | 154 | | | | |
| 11 | 300 | 5420 | 129 | | | | |
| 13 | 300 | 5420 | 109 | | | | |
| 14 | 300 | 5420 | 98 | | | | |

TR..58 $n_1=1400$ r/min **450Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM/MY63 AM/MY71 | AM80 MY80 | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM/MY132S AM/MY132M |
|------------------|-------------------|---------------|--------|--------------------|--------------|--------------|----------------|----------------|------------------------|
| 3Stage | | | | | | | | | |
| 7.5 | 450 | 7110 | 186.89 | | | | | | |
| 8.1 | 450 | 7110 | 172.17 | | | | | | |
| 9.5 | 450 | 7110 | 147.92 | | | | | | |
| 11 | 450 | 7110 | 128.77 | | | | | | |
| 12 | 450 | 7110 | 120.63 | | | | | | |
| 13 | 450 | 7110 | 106.58 | | | | | | |
| 14 | 450 | 7110 | 98.99 | | | | | | |
| 16 | 450 | 7110 | 89.71 | | | | | | |
| 17 | 450 | 7110 | 80.55 | | | | | | |
| 20 | 450 | 7110 | 69.23 | | | | | | |
| 22 | 450 | 6980 | 64.85 | | | | | | |
| 24 | 450 | 6630 | 57.29 | | | | | | |
| 26 | 450 | 6430 | 53.22 | | | | | | |
| 29 | 450 | 6170 | 48.23 | | | | | | |
| 32 | 450 | 5900 | 43.30 | | | | | | |
| 38 | 450 | 5530 | 37.30* | | | | | | |
| 40 | 450 | 5390 | 35.07 | | | | | | |
| 46 | 450 | 5050 | 30.18 | | | | | | |
| 52 | 450 | 4800 | 26.97 | | | | | | |
| 2Stage | | | | | | | | | |
| 53 | 450 | 4750 | 26.31 | | | | | | |
| 56 | 450 | 4640 | 24.99* | | | | | | |
| 64 | 450 | 4370 | 21.93 | | | | | | |
| 75 | 450 | 4050 | 18.60* | | | | | | |
| 83 | 450 | 3860 | 16.79 | | | | | | |
| 95 | 435 | 3690 | 14.77* | | | | | | |
| 100 | 430 | 3610 | 13.95* | | | | | | |
| 118 | 405 | 3430 | 11.88 | | | | | | |
| 130 | 390 | 3330 | 10.79 | | | | | | |
| 150 | 370 | 3180 | 9.35 | | | | | | |
| 155 | 375 | 2010 | 9.06 | | | | | | |
| 176 | 355 | 2020 | 7.97 | | | | | | |
| 186 | 350 | 1950 | 7.53 | | | | | | |
| 218 | 335 | 1770 | 6.41 | | | | | | |
| 241 | 320 | 1820 | 5.82 | | | | | | |
| 277 | 305 | 1730 | 5.05 | | | | | | |
| 319 | 280 | 1900 | 4.39 | | | | | | |

TR..58/TRF38
 $n_1=1400$ r/min

450Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 |
|------------------------|-------------------|---------------|-------|--------------|------|------|-------|
| 3Stage / 3Stage | | | | | | | |
| 0.10 | 450 | 7110 | 14369 | | | | |
| 0.12 | 450 | 7110 | 12095 | | | | |
| 0.13 | 450 | 7110 | 10860 | | | | |
| 0.15 | 450 | 7110 | 9445 | | | | |
| 0.17 | 450 | 7110 | 8480 | | | | |
| 0.19 | 450 | 7110 | 7312 | | | | |
| 0.21 | 450 | 7110 | 6521 | | | | |
| 0.25 | 450 | 7110 | 5585 | | | | |
| 0.28 | 450 | 7110 | 4928 | | | | |
| 0.32 | 450 | 7110 | 4378 | | | | |
| 0.36 | 450 | 7110 | 3873 | | | | |
| 0.42 | 450 | 7110 | 3344 | | | | |
| 0.48 | 450 | 7110 | 2907 | | | | |
| 0.55 | 450 | 7110 | 2567 | | | | |
| 0.62 | 450 | 7110 | 2244 | | | | |
| 0.71 | 450 | 7110 | 1967 | | | | |
| 2Stage / 3Stage | | | | | | | |
| 0.47 | 450 | 7110 | 2957 | | | | |
| 0.56 | 450 | 7110 | 2508 | | | | |
| 0.61 | 450 | 7110 | 2309 | | | | |
| 0.70 | 450 | 7110 | 1991 | | | | |
| 0.79 | 450 | 7110 | 1768 | | | | |
| 0.92 | 450 | 7110 | 1520 | | | | |
| 1.0 | 450 | 7110 | 1342 | | | | |
| 1.2 | 450 | 7110 | 1164 | | | | |
| 1.4 | 450 | 7110 | 1027 | | | | |
| 1.6 | 450 | 7110 | 894 | | | | |
| 1.7 | 450 | 7110 | 805 | | | | |
| 2.0 | 450 | 7110 | 683 | | | | |
| 2.3 | 450 | 7110 | 603 | | | | |
| 2.6 | 450 | 7110 | 534 | | | | |
| 3.1 | 450 | 7110 | 454 | | | | |
| 3.4 | 450 | 7110 | 410 | | | | |
| 3Stage / 2Stage | | | | | | | |
| 0.81 | 450 | 7110 | 1732 | | | | |
| 0.90 | 450 | 7110 | 1555 | | | | |
| 1.0 | 450 | 7110 | 1399 | | | | |
| 1.2 | 450 | 7110 | 1189 | | | | |
| 1.4 | 450 | 7110 | 1034 | | | | |
| 1.8 | 450 | 7110 | 782 | | | | |
| 2.1 | 450 | 7110 | 678 | | | | |
| 2.3 | 450 | 7110 | 604 | | | | |
| 2.6 | 450 | 7110 | 537 | | | | |
| 3.0 | 450 | 7110 | 471 | | | | |
| 3.9 | 450 | 7110 | 357 | | | | |
| 4.4 | 450 | 7110 | 319 | | | | |
| 5.1 | 450 | 7110 | 273 | | | | |
| 5.8 | 450 | 7110 | 241 | | | | |
| 6.5 | 450 | 7110 | 215 | | | | |
| 7.5 | 450 | 7110 | 187 | | | | |
| 8.5 | 450 | 7110 | 164 | | | | |
| 9.9 | 450 | 7110 | 142 | | | | |
| 2Stage / 2Stage | | | | | | | |
| 3.9 | 450 | 7110 | 359 | | | | |
| 4.3 | 450 | 7110 | 324 | | | | |

TR..58/TRF38 $n_1=1400$ r/min **450Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 |
|------------------------|-------------------|---------------|-----|--------------|------|------|-------|
| 2Stage / 2Stage | | | | | | | |
| 4.8 | 450 | 7110 | 290 | | | | |
| 5.3 | 450 | 7110 | 262 | | | | |
| 5.7 | 450 | 7110 | 246 | | | | |
| 6.4 | 450 | 7110 | 220 | | | | |
| 7.4 | 450 | 7110 | 188 | | | | |
| 8.8 | 450 | 7110 | 159 | | | | |
| 9.6 | 450 | 7110 | 146 | | | | |
| 10 | 450 | 7110 | 134 | | | | |

TR..68 $n_1=1400$ r/min **600Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM/MY63 AM/MY71 | AM80 MY80 | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM/MY132S AM/MY132M |
|------------------|-------------------|---------------|--------|--------------------|--------------|--------------|----------------|----------------|------------------------|
| 3Stage | | | | | | | | | |
| 7.0 | 600 | 7560 | 199.81 | | | | | | |
| 7.6 | 600 | 7560 | 184.07 | | | | | | |
| 8.9 | 600 | 7560 | 158.14 | | | | | | |
| 10 | 600 | 7560 | 137.67 | | | | | | |
| 11 | 600 | 7560 | 128.97 | | | | | | |
| 12 | 600 | 7560 | 113.94 | | | | | | |
| 13 | 600 | 7560 | 105.83 | | | | | | |
| 15 | 600 | 7560 | 95.91 | | | | | | |
| 16 | 600 | 7560 | 86.11 | | | | | | |
| 19 | 600 | 7560 | 74.17 | | | | | | |
| 20 | 600 | 7560 | 69.75 | | | | | | |
| 23 | 600 | 7560 | 61.26 | | | | | | |
| 25 | 600 | 7560 | 56.89 | | | | | | |
| 27 | 600 | 7560 | 51.56 | | | | | | |
| 30 | 600 | 7560 | 46.29 | | | | | | |
| 35 | 580 | 7790 | 39.88* | | | | | | |
| 37 | 570 | 7900 | 37.50 | | | | | | |
| 43 | 540 | 8210 | 32.27 | | | | | | |
| 49 | 520 | 8400 | 28.83 | | | | | | |
| 2Stage | | | | | | | | | |
| 50 | 540 | 8210 | 28.13 | | | | | | |
| 52 | 540 | 8210 | 26.72 | | | | | | |
| 60 | 560 | 8010 | 23.44 | | | | | | |
| 70 | 600 | 7560 | 19.89 | | | | | | |
| 78 | 590 | 7330 | 17.95 | | | | | | |
| 89 | 560 | 7130 | 15.79 | | | | | | |
| 94 | 550 | 6980 | 14.91 | | | | | | |
| 110 | 520 | 6650 | 12.70 | | | | | | |
| 121 | 500 | 6500 | 11.54 | | | | | | |
| 140 | 470 | 6220 | 10.00 | | | | | | |
| 161 | 440 | 5960 | 8.70* | | | | | | |
| 180 | 380 | 5830 | 7.79 | | | | | | |
| 190 | 370 | 5790 | 7.36* | | | | | | |
| 223 | 330 | 5590 | 6.27 | | | | | | |
| 246 | 310 | 5450 | 5.70 | | | | | | |
| 284 | 290 | 5210 | 4.93 | | | | | | |
| 326 | 270 | 5000 | 4.29 | | | | | | |

TR..68/TRF38
 $n_1=1400$ r/min

600Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 |
|------------------------|-------------------|---------------|-------|--------------|------|------|-------|
| 3Stage / 3Stage | | | | | | | |
| 0.09 | 600 | 7560 | 15361 | | | | |
| 0.11 | 600 | 7560 | 12931 | | | | |
| 0.12 | 600 | 7560 | 11996 | | | | |
| 0.14 | 600 | 7560 | 10097 | | | | |
| 0.15 | 600 | 7560 | 9066 | | | | |
| 0.18 | 600 | 7560 | 7816 | | | | |
| 0.21 | 600 | 7560 | 6732 | | | | |
| 0.23 | 600 | 7560 | 5970 | | | | |
| 0.27 | 600 | 7560 | 5268 | | | | |
| 0.30 | 600 | 7560 | 4680 | | | | |
| 0.34 | 600 | 7560 | 4136 | | | | |
| 0.39 | 600 | 7560 | 3566 | | | | |
| 0.45 | 600 | 7560 | 3125 | | | | |
| 0.51 | 600 | 7560 | 2745 | | | | |
| 0.58 | 600 | 7560 | 2403 | | | | |
| 2Stage / 3Stage | | | | | | | |
| 0.52 | 600 | 7560 | 2682 | | | | |
| 0.57 | 600 | 7560 | 2460 | | | | |
| 0.67 | 600 | 7560 | 2094 | | | | |
| 0.78 | 600 | 7560 | 1805 | | | | |
| 0.86 | 600 | 7560 | 1629 | | | | |
| 0.95 | 600 | 7560 | 1471 | | | | |
| 1.0 | 600 | 7560 | 1379 | | | | |
| 1.3 | 600 | 7560 | 1109 | | | | |
| 1.5 | 600 | 7560 | 956 | | | | |
| 1.6 | 600 | 7560 | 891 | | | | |
| 1.9 | 600 | 7560 | 730 | | | | |
| 2.2 | 600 | 7560 | 644 | | | | |
| 2.5 | 600 | 7560 | 571 | | | | |
| 2.9 | 600 | 7560 | 486 | | | | |
| 3Stage / 2Stage | | | | | | | |
| 0.66 | 600 | 7560 | 2136 | | | | |
| 0.76 | 600 | 7560 | 1852 | | | | |
| 0.85 | 600 | 7560 | 1652 | | | | |
| 0.98 | 600 | 7560 | 1432 | | | | |
| 1.1 | 600 | 7560 | 1259 | | | | |
| 1.3 | 600 | 7560 | 1106 | | | | |
| 1.7 | 600 | 7560 | 836 | | | | |
| 1.9 | 600 | 7560 | 750 | | | | |
| 2.2 | 600 | 7560 | 646 | | | | |
| 2.4 | 600 | 7560 | 574 | | | | |
| 2.8 | 600 | 7560 | 495 | | | | |
| 3.2 | 600 | 7560 | 438 | | | | |
| 3.6 | 600 | 7560 | 388 | | | | |
| 4.1 | 600 | 7560 | 344 | | | | |
| 4.8 | 600 | 7560 | 294 | | | | |
| 5.4 | 600 | 7560 | 261 | | | | |
| 6.0 | 600 | 7560 | 234 | | | | |
| 7.0 | 600 | 7560 | 200 | | | | |
| 8.0 | 600 | 7560 | 176 | | | | |
| 8.9 | 600 | 7560 | 158 | | | | |
| 2Stage / 2Stage | | | | | | | |
| 3.2 | 600 | 7560 | 443 | | | | |
| 3.6 | 600 | 7560 | 384 | | | | |

TR..68/TRF38 $n_1=1400$ r/min **600Nm**

| n_2 [r/min] | M_2 max [Nm] | F_{r2} [N] | i | MY63 MY71 | MY80 | MY90 | MY100 |
|------------------------|-------------------|-----------------|-----|--------------|------|------|-------|
| 2Stage / 2Stage | | | | | | | |
| 4.5 | 600 | 7560 | 310 | | | | |
| 5.3 | 600 | 7560 | 264 | | | | |
| 6.0 | 600 | 7560 | 235 | | | | |
| 7.0 | 600 | 7560 | 201 | | | | |
| 7.7 | 600 | 7560 | 181 | | | | |
| 8.8 | 600 | 7560 | 159 | | | | |

TR..78 $n_1=1400$ r/min **820Nm**

| n_2 [r/min] | M_2 max [Nm] | F_{r2} [N] | i | AM/MY63 AM/MY71 | AM80 MY80 | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM/MY132S AM/MY132M | AM/MY132ML MY160M |
|------------------|-------------------|-----------------|---------|--------------------|--------------|--------------|----------------|----------------|------------------------|----------------------|
| 3Stage | | | | | | | | | | |
| 7.2 | 820 | 9920 | 195.24* | | | | | | | |
| 8.4 | 820 | 9920 | 166.59 | | | | | | | |
| 9.6 | 820 | 9920 | 145.67 | | | | | | | |
| 10 | 820 | 9920 | 138.39 | | | | | | | |
| 12 | 820 | 9920 | 121.42 | | | | | | | |
| 14 | 820 | 9920 | 102.99 | | | | | | | |
| 15 | 820 | 9920 | 92.97 | | | | | | | |
| 17 | 820 | 9920 | 81.80 | | | | | | | |
| 18 | 820 | 9920 | 77.24 | | | | | | | |
| 21 | 820 | 9920 | 65.77 | | | | | | | |
| 24 | 820 | 9920 | 57.68 | | | | | | | |
| 27 | 820 | 9920 | 52.07 | | | | | | | |
| 31 | 820 | 9920 | 45.81 | | | | | | | |
| 32 | 820 | 9920 | 43.26 | | | | | | | |
| 38 | 820 | 9920 | 36.83 | | | | | | | |
| 42 | 820 | 9920 | 33.47 | | | | | | | |
| 48 | 820 | 9920 | 29.00 | | | | | | | |
| 55 | 780 | 10100 | 25.23 | | | | | | | |
| 2Stage | | | | | | | | | | |
| 60 | 820 | 8870 | 23.37 | | | | | | | |
| 65 | 820 | 8250 | 21.43 | | | | | | | |
| 74 | 780 | 7980 | 18.80 | | | | | | | |
| 79 | 780 | 7620 | 17.82* | | | | | | | |
| 90 | 740 | 7390 | 15.60 | | | | | | | |
| 100 | 720 | 7050 | 14.05 | | | | | | | |
| 114 | 690 | 6740 | 12.33 | | | | | | | |
| 129 | 660 | 6490 | 10.88 | | | | | | | |
| 145 | 630 | 6300 | 9.64 | | | | | | | |
| 163 | 630 | 4110 | 8.59 | | | | | | | |
| 181 | 610 | 3940 | 7.74 | | | | | | | |
| 206 | 580 | 3850 | 6.79 | | | | | | | |
| 234 | 540 | 3990 | 5.99* | | | | | | | |
| 264 | 510 | 3990 | 5.31* | | | | | | | |

TR..78/TRF38
 $n_1=1400$ r/min

820Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 |
|------------------------|-------------------|---------------|-------|--------------|------|------|-------|
| 3Stage / 3Stage | | | | | | | |
| 0.09 | 820 | 9920 | 16370 | | | | |
| 0.09 | 820 | 9920 | 15015 | | | | |
| 0.10 | 820 | 9920 | 13885 | | | | |
| 0.11 | 820 | 9920 | 12783 | | | | |
| 0.13 | 820 | 9920 | 11021 | | | | |
| 0.14 | 820 | 9920 | 9788 | | | | |
| 0.16 | 820 | 9920 | 8714 | | | | |
| 0.18 | 820 | 9920 | 7617 | | | | |
| 0.21 | 820 | 9920 | 6770 | | | | |
| 0.24 | 820 | 9920 | 5838 | | | | |
| 0.27 | 820 | 9920 | 5184 | | | | |
| 0.31 | 820 | 9920 | 4470 | | | | |
| 0.35 | 820 | 9920 | 3999 | | | | |
| 0.40 | 820 | 9920 | 3488 | | | | |
| 0.46 | 820 | 9920 | 3053 | | | | |
| 0.52 | 820 | 9920 | 2671 | | | | |
| 2Stage / 3Stage | | | | | | | |
| 0.44 | 820 | 9920 | 3151 | | | | |
| 0.48 | 820 | 9920 | 2890 | | | | |
| 0.57 | 820 | 9920 | 2460 | | | | |
| 0.66 | 820 | 9920 | 2121 | | | | |
| 0.71 | 820 | 9920 | 1977 | | | | |
| 0.81 | 820 | 9920 | 1728 | | | | |
| 0.86 | 820 | 9920 | 1620 | | | | |
| 0.98 | 820 | 9920 | 1430 | | | | |
| 1.1 | 820 | 9920 | 1303 | | | | |
| 1.2 | 820 | 9920 | 1124 | | | | |
| 1.3 | 820 | 9920 | 1047 | | | | |
| 1.5 | 820 | 9920 | 915 | | | | |
| 1.6 | 820 | 9920 | 858 | | | | |
| 1.8 | 820 | 9920 | 757 | | | | |
| 2.1 | 820 | 9920 | 671 | | | | |
| 2.5 | 820 | 9920 | 571 | | | | |
| 3Stage / 2Stage | | | | | | | |
| 0.60 | 820 | 9920 | 2345 | | | | |
| 0.68 | 820 | 9920 | 2070 | | | | |
| 0.77 | 820 | 9920 | 1822 | | | | |
| 0.89 | 820 | 9920 | 1580 | | | | |
| 1.0 | 820 | 9920 | 1394 | | | | |
| 1.1 | 820 | 9920 | 1218 | | | | |
| 1.3 | 820 | 9920 | 1084 | | | | |
| 1.5 | 820 | 9920 | 940 | | | | |
| 1.7 | 820 | 9920 | 821 | | | | |
| 1.9 | 820 | 9920 | 731 | | | | |
| 2.2 | 820 | 9920 | 646 | | | | |
| 2.5 | 820 | 9920 | 560 | | | | |
| 2.9 | 820 | 9920 | 488 | | | | |
| 3.2 | 820 | 9920 | 436 | | | | |
| 3.8 | 820 | 9920 | 373 | | | | |
| 4.3 | 820 | 9920 | 327 | | | | |
| 4.8 | 820 | 9920 | 289 | | | | |
| 5.4 | 820 | 9920 | 260 | | | | |
| 6.2 | 820 | 9920 | 224 | | | | |
| 7.1 | 820 | 9920 | 197 | | | | |
| 8.3 | 820 | 9920 | 169 | | | | |

TR..78/TRF38 $n_1=1400$ r/min **820Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 |
|------------------------|-------------------|---------------|-----|--------------|------|------|-------|
| 3Stage / 2Stage | | | | | | | |
| 9.4 | 820 | 9920 | 149 | | | | |
| 2Stage / 2Stage | | | | | | | |
| 2.7 | 820 | 9920 | 520 | | | | |
| 3.1 | 820 | 9920 | 451 | | | | |
| 3.3 | 820 | 9920 | 422 | | | | |
| 3.8 | 820 | 9920 | 365 | | | | |
| 4.5 | 820 | 9920 | 310 | | | | |
| 5.1 | 820 | 9920 | 276 | | | | |
| 5.9 | 820 | 9920 | 236 | | | | |
| 6.3 | 820 | 9920 | 221 | | | | |
| 7.5 | 820 | 9920 | 186 | | | | |

TR..88 $n_1=1400$ r/min **1550Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM80 MY80 | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM/MY132S AM/MY132M | AM/MY132ML AM/MY160M | AM180 MY180 |
|------------------|-------------------|---------------|---------|--------------|--------------|----------------|----------------|------------------------|-------------------------|----------------|
| 3Stage | | | | | | | | | | |
| 5.7 | 1550 | 16900 | 246.54 | | | | | | | |
| 6.5 | 1550 | 16900 | 216.54 | | | | | | | |
| 6.8 | 1550 | 16900 | 205.71 | | | | | | | |
| 7.7 | 1550 | 16900 | 181.77 | | | | | | | |
| 9.0 | 1550 | 16900 | 155.34 | | | | | | | |
| 9.8 | 1550 | 16900 | 142.41 | | | | | | | |
| 11 | 1550 | 16900 | 124.97 | | | | | | | |
| 12 | 1550 | 16900 | 118.43* | | | | | | | |
| 14 | 1550 | 16900 | 103.65 | | | | | | | |
| 15 | 1550 | 16900 | 93.38 | | | | | | | |
| 17 | 1550 | 16900 | 81.92 | | | | | | | |
| 19 | 1550 | 16900 | 72.57 | | | | | | | |
| 22 | 1550 | 15800 | 63.68* | | | | | | | |
| 23 | 1550 | 15200 | 60.35 | | | | | | | |
| 27 | 1550 | 13500 | 52.82 | | | | | | | |
| 29 | 1550 | 16900 | 47.58 | | | | | | | |
| 34 | 1550 | 16900 | 41.74 | | | | | | | |
| 38 | 1550 | 16800 | 36.84* | | | | | | | |
| 43 | 1550 | 16000 | 32.66* | | | | | | | |
| 50 | 1500 | 15100 | 27.88 | | | | | | | |
| 2Stage | | | | | | | | | | |
| 41 | 1500 | 9480 | 34.4* | | | | | | | |
| 45 | 1550 | 7820 | 31.40 | | | | | | | |
| 50 | 1550 | 15000 | 27.84* | | | | | | | |
| 60 | 1550 | 13900 | 23.40 | | | | | | | |
| 65 | 1500 | 13600 | 21.51 | | | | | | | |
| 73 | 1440 | 13000 | 19.10 | | | | | | | |
| 82 | 1390 | 12600 | 17.08* | | | | | | | |
| 91 | 1340 | 12100 | 15.35 | | | | | | | |
| 105 | 1280 | 11600 | 13.33 | | | | | | | |
| 117 | 1230 | 11200 | 11.93 | | | | | | | |
| 141 | 1180 | 10400 | 9.90* | | | | | | | |
| 153 | 1210 | 10500 | 9.14* | | | | | | | |
| 170 | 1160 | 10200 | 8.22 | | | | | | | |
| 196 | 1070 | 9780 | 7.13 | | | | | | | |
| 219 | 1020 | 9450 | 6.39 | | | | | | | |
| 264 | 910 | 8980 | 5.30* | | | | | | | |

TR..88/TRF58
 $n_1=1400$ r/min

1550Nm

| n_2 [r/min] | M_2 max [Nm] | F_{r2} [N] | i | MY63 MY71 | MY80 | MY90 | MY100 | MY112 | MY132S MY132M |
|------------------------|-------------------|-----------------|-------|--------------|------|------|-------|-------|------------------|
| 3Stage / 3Stage | | | | | | | | | |
| 0.08 | 1550 | 16900 | 17452 | | | | | | |
| 0.09 | 1550 | 16900 | 15310 | | | | | | |
| 0.10 | 1550 | 16900 | 13813 | | | | | | |
| 0.12 | 1550 | 16900 | 12025 | | | | | | |
| 0.13 | 1550 | 16900 | 10549 | | | | | | |
| 0.15 | 1550 | 16900 | 9244 | | | | | | |
| 0.17 | 1550 | 16900 | 8109 | | | | | | |
| 0.20 | 1550 | 16900 | 7038 | | | | | | |
| 0.23 | 1550 | 16900 | 6174 | | | | | | |
| 0.26 | 1550 | 16900 | 5449 | | | | | | |
| 0.29 | 1550 | 16900 | 4831 | | | | | | |
| 0.33 | 1550 | 16900 | 4206 | | | | | | |
| 0.37 | 1550 | 16900 | 3744 | | | | | | |
| 0.43 | 1550 | 16900 | 3233 | | | | | | |
| 0.49 | 1550 | 16900 | 2873 | | | | | | |
| 0.56 | 1550 | 16900 | 2518 | | | | | | |
| 0.63 | 1550 | 16900 | 2209 | | | | | | |
| 0.71 | 1550 | 16900 | 1961 | | | | | | |
| 1.4 | 1550 | 16900 | 994 | | | | | | |
| 1.6 | 1550 | 16900 | 881 | | | | | | |
| 2Stage / 3Stage | | | | | | | | | |
| 0.35 | 1550 | 16900 | 4020 | | | | | | |
| 0.38 | 1550 | 16900 | 3703 | | | | | | |
| 0.44 | 1550 | 16900 | 3182 | | | | | | |
| 0.51 | 1550 | 16900 | 2770 | | | | | | |
| 0.54 | 1550 | 16900 | 2595 | | | | | | |
| 0.66 | 1550 | 16900 | 2129 | | | | | | |
| 0.73 | 1550 | 16900 | 1930 | | | | | | |
| 0.81 | 1550 | 16900 | 1733 | | | | | | |
| 0.94 | 1550 | 16900 | 1489 | | | | | | |
| 1.0 | 1550 | 16900 | 1395 | | | | | | |
| 1.1 | 1550 | 16900 | 1232 | | | | | | |
| 1.2 | 1550 | 16900 | 1145 | | | | | | |
| 1.4 | 1550 | 16900 | 1037 | | | | | | |
| 1.5 | 1550 | 16900 | 931 | | | | | | |
| 1.7 | 1550 | 16900 | 802 | | | | | | |
| 1.9 | 1550 | 16900 | 754 | | | | | | |
| 2.2 | 1550 | 16900 | 649 | | | | | | |
| 2.4 | 1550 | 16900 | 580 | | | | | | |
| 3Stage / 2Stage | | | | | | | | | |
| 0.81 | 1550 | 16900 | 1737 | | | | | | |
| 0.92 | 1550 | 16900 | 1524 | | | | | | |
| 1.1 | 1550 | 16900 | 1303 | | | | | | |
| 1.2 | 1550 | 16900 | 1143 | | | | | | |
| 1.4 | 1550 | 16900 | 1008 | | | | | | |
| 1.6 | 1550 | 16900 | 885 | | | | | | |
| 1.8 | 1550 | 16900 | 776 | | | | | | |
| 2.0 | 1550 | 16900 | 685 | | | | | | |
| 2.3 | 1550 | 16900 | 599 | | | | | | |
| 2.7 | 1550 | 16900 | 525 | | | | | | |
| 3.1 | 1550 | 16900 | 456 | | | | | | |
| 3.5 | 1550 | 16900 | 398 | | | | | | |
| 4.0 | 1550 | 16900 | 352 | | | | | | |
| 4.6 | 1550 | 16900 | 305 | | | | | | |
| 5.2 | 1550 | 16900 | 268 | | | | | | |

TR..88/TRF58 $n_1=1400$ r/min **1550Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 | MY112 | MY132S MY132M |
|------------------------|-------------------|---------------|-----|--------------|------|------|-------|-------|------------------|
| 3Stage / 2Stage | | | | | | | | | |
| 5.9 | 1550 | 16900 | 236 | | | | | | |
| 6.7 | 1550 | 16900 | 209 | | | | | | |
| 2Stage / 2Stage | | | | | | | | | |
| 2.6 | 1550 | 16900 | 538 | | | | | | |
| 3.0 | 1550 | 16900 | 472 | | | | | | |
| 3.5 | 1550 | 16900 | 400 | | | | | | |
| 3.9 | 1550 | 16900 | 361 | | | | | | |
| 4.7 | 1550 | 16900 | 300 | | | | | | |
| 5.5 | 1550 | 16900 | 256 | | | | | | |
| 6.0 | 1550 | 16900 | 232 | | | | | | |
| 7.2 | 1550 | 16900 | 195 | | | | | | |

TR..98 $n_1=1400$ r/min **3000Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY80 | MY90 | AM100 MY100 | AM112 MY112 | AM/MY132S AM/MY132M | AM/MY132ML AM/MY160M | AM180 MY180 | AM200 MY200 |
|------------------|-------------------|---------------|--------|------|------|----------------|----------------|------------------------|-------------------------|----------------|----------------|
| 3Stage | | | | | | | | | | | |
| 4.8 | 3000 | 19800 | 289.74 | | | | | | | | |
| 5.5 | 3000 | 19800 | 255.71 | | | | | | | | |
| 5.8 | 3000 | 19800 | 241.25 | | | | | | | | |
| 6.5 | 3000 | 19800 | 216.28 | | | | | | | | |
| 7.5 | 3000 | 19800 | 186.3 | | | | | | | | |
| 8.2 | 3000 | 19800 | 170.02 | | | | | | | | |
| 9.3 | 3000 | 19800 | 150.78 | | | | | | | | |
| 11 | 3000 | 19800 | 126.75 | | | | | | | | |
| 12 | 3000 | 19800 | 116.48 | | | | | | | | |
| 14 | 3000 | 19800 | 103.44 | | | | | | | | |
| 15 | 3000 | 19800 | 92.48 | | | | | | | | |
| 17 | 3000 | 19800 | 83.15 | | | | | | | | |
| 19 | 3000 | 18000 | 72.17 | | | | | | | | |
| 21 | 3000 | 19800 | 65.21 | | | | | | | | |
| 23 | 3000 | 19800 | 59.92 | | | | | | | | |
| 26 | 3000 | 19800 | 53.21 | | | | | | | | |
| 29 | 3000 | 19800 | 47.58 | | | | | | | | |
| 33 | 3000 | 19800 | 42.78 | | | | | | | | |
| 38 | 3000 | 18600 | 37.13 | | | | | | | | |
| 42 | 2890 | 17900 | 33.25 | | | | | | | | |
| 51 | 2670 | 16900 | 27.58 | | | | | | | | |
| 2Stage | | | | | | | | | | | |
| 44 | 2560 | 10600 | 32.05 | | | | | | | | |
| 51 | 2560 | 8380 | 27.19 | | | | | | | | |
| 56 | 2830 | 15900 | 25.03 | | | | | | | | |
| 63 | 2720 | 15300 | 22.37 | | | | | | | | |
| 70 | 2610 | 14800 | 20.14 | | | | | | | | |
| 77 | 2500 | 14400 | 18.24 | | | | | | | | |
| 87 | 2400 | 13800 | 16.17 | | | | | | | | |
| 96 | 2300 | 13400 | 14.62 | | | | | | | | |
| 113 | 2190 | 12700 | 12.39 | | | | | | | | |
| 129 | 2090 | 12100 | 10.83 | | | | | | | | |
| 151 | 2030 | 12200 | 9.29 | | | | | | | | |
| 167 | 2030 | 11700 | 8.39 | | | | | | | | |
| 197 | 2000 | 10900 | 7.12 | | | | | | | | |

TR..98
 $n_1=1400$ r/min

3000Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM80 MY80 | AM90 MY90 | AM100 MY100 | AM112 MY112 | AM/MY132S AM/MY132M | AM/MY132ML AM/MY160M | AM180 MY180 | AM200 MY200 |
|------------------|-------------------|---------------|-------|--------------|--------------|----------------|----------------|------------------------|-------------------------|----------------|----------------|
| 2Stage | | | | | | | | | | | |
| 225 | 1890 | 10500 | 6.21 | | | | | | | | |
| 269 | 1780 | 9850 | 5.20 | | | | | | | | |
| 311 | 1630 | 9500 | 4.50* | | | | | | | | |

TR..98/TRF58
 $n_1=1400$ r/min

3000Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 | MY112 | MY132S MY132M |
|------------------------|-------------------|---------------|-------|--------------|------|------|-------|-------|------------------|
| 3Stage / 3Stage | | | | | | | | | |
| 0.06 | 3000 | 19800 | 21769 | | | | | | |
| 0.07 | 3000 | 19800 | 19332 | | | | | | |
| 0.08 | 3000 | 19800 | 17230 | | | | | | |
| 0.09 | 3000 | 19800 | 14999 | | | | | | |
| 0.11 | 3000 | 19800 | 13320 | | | | | | |
| 0.13 | 3000 | 19800 | 11156 | | | | | | |
| 0.14 | 3000 | 19800 | 10030 | | | | | | |
| 0.16 | 3000 | 19800 | 8706 | | | | | | |
| 0.18 | 3000 | 19800 | 7692 | | | | | | |
| 0.21 | 3000 | 19800 | 6708 | | | | | | |
| 0.24 | 3000 | 19800 | 5931 | | | | | | |
| 0.27 | 3000 | 19800 | 5161 | | | | | | |
| 0.31 | 3000 | 19800 | 4559 | | | | | | |
| 0.35 | 3000 | 19800 | 4004 | | | | | | |
| 0.40 | 3000 | 19800 | 3481 | | | | | | |
| 2Stage / 3Stage | | | | | | | | | |
| 0.30 | 3000 | 19800 | 4678 | | | | | | |
| 0.32 | 3000 | 19800 | 4309 | | | | | | |
| 0.38 | 3000 | 19800 | 3702 | | | | | | |
| 0.46 | 3000 | 19800 | 3019 | | | | | | |
| 0.52 | 3000 | 19800 | 2668 | | | | | | |
| 0.62 | 3000 | 19800 | 2245 | | | | | | |
| 0.69 | 3000 | 19800 | 2016 | | | | | | |
| 0.81 | 3000 | 19800 | 1733 | | | | | | |
| 0.86 | 3000 | 19800 | 1623 | | | | | | |
| 0.98 | 3000 | 19800 | 1434 | | | | | | |
| 1.2 | 3000 | 19800 | 1207 | | | | | | |
| 1.3 | 3000 | 19800 | 1084 | | | | | | |
| 1.5 | 3000 | 19800 | 934 | | | | | | |
| 1.6 | 3000 | 19800 | 878 | | | | | | |
| 1.9 | 3000 | 19800 | 755 | | | | | | |
| 3Stage / 2Stage | | | | | | | | | |
| 0.46 | 3000 | 19800 | 3065 | | | | | | |
| 0.51 | 3000 | 19800 | 2722 | | | | | | |
| 0.61 | 3000 | 19800 | 2311 | | | | | | |
| 0.67 | 3000 | 19800 | 2078 | | | | | | |
| 0.77 | 3000 | 19800 | 1823 | | | | | | |
| 0.88 | 3000 | 19800 | 1583 | | | | | | |
| 1.0 | 3000 | 19800 | 1396 | | | | | | |
| 1.1 | 3000 | 19800 | 1228 | | | | | | |
| 1.3 | 3000 | 19800 | 1069 | | | | | | |
| 1.5 | 3000 | 19800 | 938 | | | | | | |
| 1.7 | 3000 | 19800 | 824 | | | | | | |
| 1.9 | 3000 | 19800 | 737 | | | | | | |

TR..98/TRF58 $n_1=1400$ r/min **3000Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 | MY112 | MY132S MY132M |
|------------------------|-------------------|---------------|-----|--------------|------|------|-------|-------|------------------|
| 3Stage / 2Stage | | | | | | | | | |
| 2.2 | 3000 | 19800 | 632 | | | | | | |
| 2.5 | 3000 | 19800 | 560 | | | | | | |
| 2.9 | 3000 | 19800 | 484 | | | | | | |
| 3.2 | 3000 | 19800 | 431 | | | | | | |
| 3.7 | 3000 | 19800 | 379 | | | | | | |
| 4.2 | 3000 | 19800 | 336 | | | | | | |
| 4.7 | 3000 | 19800 | 296 | | | | | | |
| 5.6 | 3000 | 19800 | 249 | | | | | | |
| 6.0 | 3000 | 19800 | 234 | | | | | | |
| 6.7 | 3000 | 19800 | 209 | | | | | | |
| 2Stage / 2Stage | | | | | | | | | |
| 2.2 | 3000 | 19800 | 625 | | | | | | |
| 2.6 | 3000 | 19800 | 549 | | | | | | |
| 3.0 | 3000 | 19800 | 466 | | | | | | |
| 3.3 | 3000 | 19800 | 420 | | | | | | |
| 3.8 | 3000 | 19800 | 370 | | | | | | |
| 4.0 | 3000 | 19800 | 349 | | | | | | |
| 4.7 | 3000 | 19800 | 297 | | | | | | |
| 5.2 | 3000 | 19800 | 270 | | | | | | |
| 6.2 | 3000 | 19800 | 227 | | | | | | |

TR..108 $n_1=1400$ r/min **4300Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM100 MY100 | AM112 MY112 | AM/MY132S AM/MY132M | AM/MY132ML AM/MY160M | AM180 MY180 | AM/MY200 AM/MY225S AM/MY225M |
|------------------|-------------------|---------------|--------|----------------|----------------|------------------------|-------------------------|----------------|------------------------------------|
| 3Stage | | | | | | | | | |
| 5.6 | 4300 | 29500 | 251.15 | | | | | | |
| 6.1 | 4300 | 29500 | 229.95 | | | | | | |
| 6.9 | 4300 | 29500 | 203.16 | | | | | | |
| 8.1 | 4300 | 29500 | 172.34 | | | | | | |
| 8.8 | 4300 | 29500 | 158.68 | | | | | | |
| 9.9 | 4300 | 29500 | 141.83 | | | | | | |
| 11 | 4300 | 29500 | 127.68 | | | | | | |
| 12 | 4300 | 29500 | 115.63 | | | | | | |
| 14 | 4300 | 29500 | 102.53 | | | | | | |
| 15 | 4300 | 29500 | 92.70 | | | | | | |
| 18 | 4300 | 29500 | 78.57 | | | | | | |
| 19 | 4300 | 29500 | 72.88 | | | | | | |
| 21 | 4300 | 29200 | 65.60* | | | | | | |
| 24 | 4300 | 28000 | 59.41 | | | | | | |
| 27 | 4300 | 26600 | 52.68 | | | | | | |
| 29 | 4300 | 25500 | 47.63 | | | | | | |
| 35 | 4300 | 23800 | 40.37* | | | | | | |
| 40 | 4300 | 22400 | 35.26 | | | | | | |
| 47 | 4300 | 20700 | 29.49 | | | | | | |
| 2Stage | | | | | | | | | |
| 45 | 4300 | 21100 | 30.77 | | | | | | |
| 51 | 4300 | 20100 | 27.58 | | | | | | |
| 56 | 4300 | 19200 | 24.90* | | | | | | |
| 62 | 4300 | 18300 | 22.62 | | | | | | |
| 70 | 4300 | 17300 | 20.07 | | | | | | |
| 77 | 4300 | 16600 | 18.21 | | | | | | |

TR..108
 $n_1=1400$ r/min

4300Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM100 MY100 | AM112 MY112 | AM/MY132S AM/MY132M | AM/MY132ML AM/MY160M | AM180 MY180 | AM/MY200 AM/MY225S AM/MY225M |
|------------------|-------------------|---------------|-------|----------------|----------------|------------------------|-------------------------|----------------|------------------------------------|
| 2Stage | | | | | | | | | |
| 89 | 4300 | 15400 | 15.65 | | | | | | |
| 102 | 4300 | 14400 | 13.66 | | | | | | |
| 121 | 4300 | 13300 | 11.59 | | | | | | |
| 138 | 4300 | 12400 | 10.13 | | | | | | |
| 164 | 4300 | 11300 | 8.56 | | | | | | |
| 178 | 2970 | 13800 | 7.86 | | | | | | |
| 210 | 2970 | 12800 | 6.66 | | | | | | |
| 241 | 2970 | 12100 | 5.82 | | | | | | |
| 285 | 2900 | 11300 | 4.92 | | | | | | |

TR..108/TRF78
 $n_1=1400$ r/min

4300Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 | MY112 | MY132S MY132M | MY132ML MY160M |
|------------------------|-------------------|---------------|-------|--------------|------|------|-------|-------|------------------|-------------------|
| 3Stage / 3Stage | | | | | | | | | | |
| 0.07 | 4300 | 29500 | 20018 | | | | | | | |
| 0.08 | 4300 | 29500 | 17080 | | | | | | | |
| 0.09 | 4300 | 29500 | 14936 | | | | | | | |
| 0.11 | 4300 | 29500 | 12829 | | | | | | | |
| 0.12 | 4300 | 29500 | 11256 | | | | | | | |
| 0.15 | 4300 | 29500 | 9547 | | | | | | | |
| 0.16 | 4300 | 29500 | 8618 | | | | | | | |
| 0.18 | 4300 | 29500 | 7583 | | | | | | | |
| 0.21 | 4300 | 29500 | 6743 | | | | | | | |
| 0.24 | 4300 | 29500 | 5914 | | | | | | | |
| 0.27 | 4300 | 29500 | 5168 | | | | | | | |
| 0.32 | 4300 | 29500 | 4435 | | | | | | | |
| 0.36 | 4300 | 29500 | 3896 | | | | | | | |
| 0.41 | 4300 | 29500 | 3432 | | | | | | | |
| 0.46 | 4300 | 29500 | 3039 | | | | | | | |
| 0.52 | 4300 | 29500 | 2688 | | | | | | | |
| 0.60 | 4300 | 29500 | 2339 | | | | | | | |
| 2Stage / 3Stage | | | | | | | | | | |
| 0.36 | 4300 | 29500 | 3918 | | | | | | | |
| 0.42 | 4300 | 29500 | 3343 | | | | | | | |
| 0.46 | 4300 | 29500 | 3034 | | | | | | | |
| 0.53 | 4300 | 29500 | 2653 | | | | | | | |
| 0.61 | 4300 | 29500 | 2280 | | | | | | | |
| 0.68 | 4300 | 29500 | 2067 | | | | | | | |
| 0.83 | 4300 | 29500 | 1693 | | | | | | | |
| 0.90 | 4300 | 29500 | 1550 | | | | | | | |
| 1.0 | 4300 | 29500 | 1407 | | | | | | | |
| 1.2 | 4300 | 29500 | 1209 | | | | | | | |
| 1.3 | 4300 | 29500 | 1055 | | | | | | | |
| 1.5 | 4300 | 29500 | 919 | | | | | | | |
| 1.7 | 4300 | 29500 | 815 | | | | | | | |
| 2.0 | 4300 | 29500 | 717 | | | | | | | |
| 2.2 | 4300 | 29500 | 626 | | | | | | | |
| 2.7 | 4300 | 29500 | 528 | | | | | | | |
| 3Stage / 2Stage | | | | | | | | | | |
| 0.70 | 4300 | 29500 | 1987 | | | | | | | |
| 0.77 | 4300 | 29500 | 1827 | | | | | | | |
| 0.88 | 4300 | 29500 | 1599 | | | | | | | |

TR..108/TRF78 $n_1=1400$ r/min **4300Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 | MY112 | MY132S MY132M | MY132ML MY160M |
|------------------------|-------------------|---------------|------|--------------|------|------|-------|-------|------------------|-------------------|
| 3Stage / 2Stage | | | | | | | | | | |
| 1.0 | 4300 | 29500 | 1400 | | | | | | | |
| 1.1 | 4300 | 29500 | 1226 | | | | | | | |
| 1.3 | 4300 | 29500 | 1104 | | | | | | | |
| 1.5 | 4300 | 29500 | 939 | | | | | | | |
| 1.7 | 4300 | 29500 | 822 | | | | | | | |
| 2.3 | 4300 | 29500 | 614 | | | | | | | |
| 2.6 | 4300 | 29500 | 544 | | | | | | | |
| 2.8 | 4300 | 29500 | 492 | | | | | | | |
| 3.4 | 4300 | 29500 | 417 | | | | | | | |
| 3.8 | 4300 | 29500 | 369 | | | | | | | |
| 4.3 | 4300 | 29500 | 323 | | | | | | | |
| 4.9 | 4300 | 29500 | 285 | | | | | | | |
| 5.5 | 4300 | 29500 | 253 | | | | | | | |
| 6.5 | 4300 | 29500 | 214 | | | | | | | |
| 7.5 | 4300 | 29500 | 187 | | | | | | | |
| 2Stage / 2Stage | | | | | | | | | | |
| 3.0 | 4300 | 29500 | 469 | | | | | | | |
| 3.3 | 4300 | 29500 | 426 | | | | | | | |
| 3.7 | 4300 | 29500 | 377 | | | | | | | |
| 4.3 | 4300 | 29500 | 325 | | | | | | | |
| 4.9 | 4300 | 29500 | 284 | | | | | | | |
| 5.5 | 4300 | 29500 | 256 | | | | | | | |
| 6.4 | 4300 | 29500 | 220 | | | | | | | |
| 7.3 | 4300 | 29500 | 193 | | | | | | | |
| 8.1 | 4300 | 29500 | 172 | | | | | | | |

TR..138 $n_1=1400$ r/min **8000Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM/MY132S AM/MY132M | AM/MY132ML AM/MY160M AM/MY160L | AM180 MY180 | AM/MY200 AM/MY225S AM/MY225M | MY250M MY280S MY280 |
|------------------|-------------------|---------------|---------|------------------------|--------------------------------------|----------------|------------------------------------|---------------------------|
| 3Stage | | | | | | | | |
| 6.3 | 8000 | 53400 | 222.60 | | | | | |
| 7.4 | 8000 | 53400 | 188.45 | | | | | |
| 8.0 | 8000 | 53400 | 174.40* | | | | | |
| 9.0 | 8000 | 53400 | 156.31 | | | | | |
| 9.9 | 8000 | 53400 | 141.12* | | | | | |
| 11 | 8000 | 53400 | 128.18 | | | | | |
| 12 | 8000 | 53400 | 113.72 | | | | | |
| 14 | 8000 | 53400 | 103.20* | | | | | |
| 16 | 8000 | 53400 | 88.70* | | | | | |
| 17 | 8000 | 53400 | 80.91* | | | | | |
| 19 | 8000 | 53400 | 73.49 | | | | | |
| 21 | 8000 | 53400 | 65.20 | | | | | |
| 24 | 8000 | 53400 | 59.17* | | | | | |
| 28 | 8000 | 53400 | 50.86* | | | | | |
| 32 | 8000 | 53400 | 44.39 | | | | | |
| 37 | 8000 | 53400 | 37.65 | | | | | |
| 43 | 8000 | 53400 | 32.91 | | | | | |
| 50 | 7680 | 54100 | 27.83 | | | | | |

TR..138
 $n_1=1400$ r/min

8000Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM/MY132S AM/MY132M | AM/MY132ML AM/MY160M AM/MY160L | AM180 MY180 | AM/MY200 AM/MY225S AM/MY225M | MY250M MY280S MY280 |
|------------------|-------------------|---------------|--------|------------------------|--------------------------------------|----------------|------------------------------------|---------------------------|
| 2Stage | | | | | | | | |
| 47 | 7780 | 53900 | 29.57* | | | | | |
| 58 | 8000 | 49400 | 24.12 | | | | | |
| 64 | 8000 | 47100 | 22.00* | | | | | |
| 74 | 8000 | 43500 | 19.04* | | | | | |
| 83 | 8000 | 40600 | 16.80* | | | | | |
| 96 | 8000 | 37300 | 14.51 | | | | | |
| 109 | 8000 | 34700 | 12.83 | | | | | |
| 130 | 8000 | 31100 | 10.79 | | | | | |
| 161 | 7840 | 27600 | 8.71 | | | | | |
| 184 | 5110 | 39000 | 7.59 | | | | | |
| 219 | 5110 | 35900 | 6.38 | | | | | |
| 272 | 4600 | 34500 | 5.15 | | | | | |

TR..138/TRF78
 $n_1=1400$ r/min

8000Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 | MY112 | MY132S MY132M | MY132ML MY160M |
|------------------------|-------------------|---------------|-------|--------------|------|------|-------|-------|------------------|-------------------|
| 3Stage / 3Stage | | | | | | | | | | |
| 0.06 | 8000 | 53400 | 22203 | | | | | | | |
| 0.07 | 8000 | 53400 | 18945 | | | | | | | |
| 0.08 | 8000 | 53400 | 16566 | | | | | | | |
| 0.09 | 8000 | 53400 | 14777 | | | | | | | |
| 0.11 | 8000 | 53400 | 12921 | | | | | | | |
| 0.12 | 8000 | 53400 | 11712 | | | | | | | |
| 0.13 | 8000 | 53400 | 10573 | | | | | | | |
| 0.16 | 8000 | 53400 | 8784 | | | | | | | |
| 0.19 | 8000 | 53400 | 7479 | | | | | | | |
| 0.21 | 8000 | 53400 | 6559 | | | | | | | |
| 0.24 | 8000 | 53400 | 5834 | | | | | | | |
| 0.27 | 8000 | 53400 | 5116 | | | | | | | |
| 0.31 | 8000 | 53400 | 4464 | | | | | | | |
| 0.36 | 8000 | 53400 | 3928 | | | | | | | |
| 0.41 | 8000 | 53400 | 3454 | | | | | | | |
| 0.47 | 8000 | 53400 | 2993 | | | | | | | |
| 2Stage / 3Stage | | | | | | | | | | |
| 0.30 | 8000 | 53400 | 4709 | | | | | | | |
| 0.35 | 8000 | 53400 | 4018 | | | | | | | |
| 0.40 | 8000 | 53400 | 3514 | | | | | | | |
| 0.42 | 8000 | 53400 | 3338 | | | | | | | |
| 0.48 | 8000 | 53400 | 2929 | | | | | | | |
| 0.56 | 8000 | 53400 | 2484 | | | | | | | |
| 0.62 | 8000 | 53400 | 2242 | | | | | | | |
| 0.75 | 8000 | 53400 | 1863 | | | | | | | |
| 0.88 | 8000 | 53400 | 1586 | | | | | | | |
| 1.0 | 8000 | 53400 | 1391 | | | | | | | |
| 1.1 | 8000 | 53400 | 1256 | | | | | | | |
| 1.3 | 8000 | 53400 | 1105 | | | | | | | |
| 1.3 | 8000 | 53400 | 1043 | | | | | | | |
| 1.6 | 8000 | 53400 | 888 | | | | | | | |
| 2.0 | 8000 | 53400 | 699 | | | | | | | |
| 2.3 | 8000 | 53400 | 609 | | | | | | | |

TR..138/TRF78 $n_1=1400$ r/min **8000Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 | MY112 | MY132S MY132M | MY132ML MY160M |
|------------------------|-------------------|---------------|------|--------------|------|------|-------|-------|------------------|-------------------|
| 3Stage / 2Stage | | | | | | | | | | |
| 0.53 | 8000 | 53400 | 2658 | | | | | | | |
| 0.58 | 8000 | 53400 | 2412 | | | | | | | |
| 0.68 | 8000 | 53400 | 2073 | | | | | | | |
| 0.76 | 8000 | 53400 | 1839 | | | | | | | |
| 0.88 | 8000 | 53400 | 1598 | | | | | | | |
| 1.0 | 8000 | 53400 | 1397 | | | | | | | |
| 1.1 | 8000 | 53400 | 1226 | | | | | | | |
| 1.3 | 8000 | 53400 | 1090 | | | | | | | |
| 1.5 | 8000 | 53400 | 951 | | | | | | | |
| 1.7 | 8000 | 53400 | 831 | | | | | | | |
| 1.9 | 8000 | 53400 | 730 | | | | | | | |
| 2.2 | 8000 | 53400 | 629 | | | | | | | |
| 2.5 | 8000 | 53400 | 560 | | | | | | | |
| 2.9 | 8000 | 53400 | 490 | | | | | | | |
| 3.3 | 8000 | 53400 | 428 | | | | | | | |
| 3.7 | 8000 | 53400 | 381 | | | | | | | |
| 4.3 | 8000 | 53400 | 323 | | | | | | | |
| 4.8 | 8000 | 53400 | 291 | | | | | | | |
| 5.5 | 8000 | 53400 | 255 | | | | | | | |
| 6.3 | 8000 | 53400 | 223 | | | | | | | |
| 7.1 | 8000 | 53400 | 197 | | | | | | | |
| 8.0 | 8000 | 53400 | 175 | | | | | | | |
| 2Stage / 2Stage | | | | | | | | | | |
| 2.5 | 8000 | 53400 | 564 | | | | | | | |
| 2.7 | 8000 | 53400 | 517 | | | | | | | |
| 3.1 | 8000 | 53400 | 453 | | | | | | | |
| 3.7 | 8000 | 53400 | 376 | | | | | | | |
| 4.1 | 8000 | 53400 | 339 | | | | | | | |
| 4.7 | 8000 | 53400 | 297 | | | | | | | |

TR..148 $n_1=1400$ r/min **13000Nm**

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM/MY132ML AM/MY160M AM/MY160L | AM180 MY180 | AM/MY200 AM/MY225S AM/MY225M | AM/MY250M AM/MY280 | MY315M MY315S |
|------------------|-------------------|---------------|--------|--------------------------------------|----------------|------------------------------------|-----------------------|------------------|
| 3Stage | | | | | | | | |
| 8.6 | 13000 | 62700 | 163.31 | | | | | |
| 9.5 | 13000 | 62700 | 146.91 | | | | | |
| 12 | 13000 | 62700 | 119.86 | | | | | |
| 13 | 13000 | 62700 | 109.31 | | | | | |
| 15 | 13000 | 62700 | 94.60* | | | | | |
| 17 | 13000 | 62700 | 83.47 | | | | | |
| 19 | 13000 | 62700 | 72.09 | | | | | |
| 21 | 13000 | 62700 | 66.99 | | | | | |
| 23 | 13000 | 62700 | 61.09 | | | | | |
| 26 | 13000 | 62700 | 52.87 | | | | | |
| 30 | 13000 | 62700 | 46.65 | | | | | |
| 35 | 13000 | 62700 | 40.29 | | | | | |
| 39 | 13000 | 62700 | 35.64 | | | | | |
| 47 | 13000 | 62700 | 29.95 | | | | | |
| 58 | 11900 | 64700 | 24.19 | | | | | |

TR..148
 $n_1=1400$ r/min

13000Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | AM/MY132ML AM/MY160M AM/MY160L | AM180 MY180 | AM/MY200 AM/MY225S AM/MY225M | AM/MY250M AM/MY280 | MY315M MY315S |
|------------------|-------------------|---------------|-------|--------------------------------------|----------------|------------------------------------|-----------------------|------------------|
| 2 Stage | | | | | | | | |
| 68 | 12000 | 64600 | 20.44 | | | | | |
| 78 | 10500 | 67000 | 18.04 | | | | | |
| 90 | 13000 | 62700 | 15.64 | | | | | |
| 101 | 12600 | 63400 | 13.91 | | | | | |
| 117 | 13000 | 60400 | 11.99 | | | | | |
| 144 | 13000 | 54400 | 9.74 | | | | | |
| 169 | 13000 | 49900 | 8.26 | | | | | |
| 193 | 8670 | 58400 | 7.25 | | | | | |
| 238 | 8670 | 53200 | 5.89 | | | | | |
| 280 | 8670 | 49300 | 5.00 | | | | | |

TR..148/TRF78
 $n_1=1400$ r/min

13000Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY63 MY71 | MY80 | MY90 | MY100 | MY112 | MY132S MY132M | MY132ML MY160M |
|------------------------|-------------------|---------------|-------|--------------|------|------|-------|-------|------------------|-------------------|
| 3Stage / 3Stage | | | | | | | | | | |
| 0.06 | 13000 | 62700 | 23401 | | | | | | | |
| 0.07 | 13000 | 62700 | 21342 | | | | | | | |
| 0.08 | 13000 | 62700 | 18210 | | | | | | | |
| 0.09 | 13000 | 62700 | 15923 | | | | | | | |
| 0.10 | 13000 | 62700 | 14075 | | | | | | | |
| 0.11 | 13000 | 62700 | 12344 | | | | | | | |
| 0.13 | 13000 | 62700 | 11143 | | | | | | | |
| 0.14 | 13000 | 62700 | 9743 | | | | | | | |
| 0.17 | 13000 | 62700 | 8443 | | | | | | | |
| 0.19 | 13000 | 62700 | 7307 | | | | | | | |
| 0.22 | 13000 | 62700 | 6447 | | | | | | | |
| 0.25 | 13000 | 62700 | 5568 | | | | | | | |
| 0.28 | 13000 | 62700 | 4926 | | | | | | | |
| 0.32 | 13000 | 62700 | 4325 | | | | | | | |
| 0.37 | 13000 | 62700 | 3754 | | | | | | | |
| 0.42 | 13000 | 62700 | 3302 | | | | | | | |
| 0.48 | 13000 | 62700 | 2898 | | | | | | | |
| 3Stage / 2Stage | | | | | | | | | | |
| 0.55 | 13000 | 62700 | 2555 | | | | | | | |
| 0.63 | 13000 | 62700 | 2211 | | | | | | | |
| 0.72 | 13000 | 62700 | 1951 | | | | | | | |
| 0.82 | 13000 | 62700 | 1705 | | | | | | | |
| 0.91 | 13000 | 62700 | 1536 | | | | | | | |
| 1.1 | 13000 | 62700 | 1329 | | | | | | | |
| 1.2 | 13000 | 62700 | 1166 | | | | | | | |
| 1.4 | 13000 | 62700 | 1029 | | | | | | | |
| 1.6 | 13000 | 62700 | 889 | | | | | | | |
| 1.8 | 13000 | 62700 | 784 | | | | | | | |
| 2.0 | 13000 | 62700 | 695 | | | | | | | |
| 2.3 | 13000 | 62700 | 619 | | | | | | | |
| 2.5 | 13000 | 62700 | 558 | | | | | | | |
| 2.9 | 13000 | 62700 | 489 | | | | | | | |
| 3.4 | 13000 | 62700 | 415 | | | | | | | |

TR..148/TRF88 $n_1=1400$ r/min **13000Nm**

| n_2 [r/min] | M_2 max [Nm] | F_{r2} [N] | i | MY90 | AM100 | AM112 | MY132S MY132M | MY132ML MY160M | MY180 |
|------------------------|-------------------|-----------------|-----|------|-------|-------|------------------|-------------------|-------|
| 3Stage / 2Stage | | | | | | | | | |
| 2.6 | 13000 | 62700 | 533 | | | | | | |
| 3.0 | 13000 | 62700 | 462 | | | | | | |
| 3.3 | 13000 | 62700 | 426 | | | | | | |
| 3.8 | 13000 | 62700 | 368 | | | | | | |
| 4.3 | 13000 | 62700 | 326 | | | | | | |
| 5.0 | 13000 | 62700 | 280 | | | | | | |
| 5.7 | 13000 | 62700 | 247 | | | | | | |
| 6.5 | 13000 | 62700 | 214 | | | | | | |
| 7.4 | 13000 | 62700 | 189 | | | | | | |
| 8.8 | 13000 | 62700 | 159 | | | | | | |

TR..168 $n_1=1400$ r/min **18000Nm**

| n_2 [r/min] | M_2 max [Nm] | F_{r2} [N] | i | AM/MY132ML AM/MY160M AM/MY160L | AM180 MY180 | AM/MY200 AM/MY225S AM/MY225M | AM/MY250M AM/MY280 | MY315M MY315S | MY315M_A MY315M_B |
|------------------|-------------------|-----------------|---------|--------------------------------------|----------------|------------------------------------|-----------------------|------------------|----------------------|
| 3 Stage | | | | | | | | | |
| 6.1 | 18000 | 120000 | 229.71 | | | | | | |
| 7.5 | 18000 | 120000 | 186.93* | | | | | | |
| 9.1 | 18000 | 120000 | 153.07 | | | | | | |
| 10 | 18000 | 120000 | 139.98 | | | | | | |
| 11 | 18000 | 120000 | 121.81* | | | | | | |
| 13 | 18000 | 120000 | 107.49 | | | | | | |
| 15 | 18000 | 120000 | 93.19 | | | | | | |
| 17 | 18000 | 120000 | 82.91* | | | | | | |
| 19 | 18000 | 120000 | 73.70* | | | | | | |
| 21 | 18000 | 120000 | 67.40 | | | | | | |
| 24 | 18000 | 120000 | 58.65 | | | | | | |
| 27 | 18000 | 120000 | 51.76 | | | | | | |
| 31 | 18000 | 120000 | 44.87 | | | | | | |
| 35 | 18000 | 120000 | 39.92 | | | | | | |
| 41 | 18000 | 120000 | 34.41 | | | | | | |
| 50 | 18000 | 120000 | 27.96 | | | | | | |
| 59 | 18000 | 116500 | 23.71 | | | | | | |
| 2 Stage | | | | | | | | | |
| 30 | 7000 | 120000 | 46.00 | | | | | | |
| 37 | 9000 | 120000 | 37.74 | | | | | | |
| 46 | 10000 | 120000 | 30.71 | | | | | | |
| 57 | 14000 | 120000 | 24.57 | | | | | | |
| 64 | 13000 | 120000 | 21.85 | | | | | | |
| 74 | 16000 | 111400 | 19.03 | | | | | | |
| 82 | 15000 | 108900 | 16.98 | | | | | | |
| 97 | 18000 | 93800 | 14.48 | | | | | | |
| 117 | 17000 | 88700 | 11.99 | | | | | | |
| 137 | 17000 | 82500 | 10.24 | | | | | | |

TR..168/TRF98 $n_1=1400$ r/min

18000Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY80 | MY90 | MY100 | MY112 | MY132S MY132M | MY132ML MY160M | MY180 | MY200 |
|------------------------|-------------------|---------------|-------|------|------|-------|-------|------------------|-------------------|-------|-------|
| 3Stage / 3Stage | | | | | | | | | | | |
| 0.05 | 18000 | 120000 | 27001 | | | | | | | | |
| 0.06 | 18000 | 120000 | 22482 | | | | | | | | |
| 0.07 | 18000 | 120000 | 20002 | | | | | | | | |
| 0.08 | 18000 | 120000 | 17361 | | | | | | | | |
| 0.09 | 18000 | 120000 | 15446 | | | | | | | | |
| 0.10 | 18000 | 120000 | 14051 | | | | | | | | |
| 0.12 | 18000 | 120000 | 11812 | | | | | | | | |
| 0.13 | 18000 | 120000 | 10509 | | | | | | | | |
| 0.15 | 18000 | 120000 | 9631 | | | | | | | | |
| 0.18 | 18000 | 120000 | 7749 | | | | | | | | |
| 0.20 | 18000 | 120000 | 6894 | | | | | | | | |
| 0.23 | 18000 | 120000 | 6077 | | | | | | | | |
| 0.26 | 18000 | 120000 | 5407 | | | | | | | | |
| 0.30 | 18000 | 120000 | 4650 | | | | | | | | |
| 0.34 | 18000 | 120000 | 4129 | | | | | | | | |
| 0.38 | 18000 | 120000 | 3692 | | | | | | | | |
| 0.45 | 18000 | 120000 | 3099 | | | | | | | | |
| 3Stage / 2Stage | | | | | | | | | | | |
| 0.53 | 18000 | 120000 | 2657 | | | | | | | | |
| 0.60 | 18000 | 120000 | 2333 | | | | | | | | |
| 0.67 | 18000 | 120000 | 2085 | | | | | | | | |
| 0.75 | 18000 | 120000 | 1877 | | | | | | | | |
| 0.84 | 18000 | 120000 | 1670 | | | | | | | | |
| 1.0 | 18000 | 120000 | 1438 | | | | | | | | |
| 1.1 | 18000 | 120000 | 1279 | | | | | | | | |
| 1.2 | 18000 | 120000 | 1123 | | | | | | | | |
| 1.4 | 18000 | 120000 | 999 | | | | | | | | |
| 1.6 | 18000 | 120000 | 861 | | | | | | | | |
| 1.8 | 18000 | 120000 | 760 | | | | | | | | |
| 2.1 | 18000 | 120000 | 656 | | | | | | | | |
| 2.4 | 18000 | 120000 | 579 | | | | | | | | |
| 2.8 | 18000 | 120000 | 503 | | | | | | | | |
| 3.2 | 18000 | 120000 | 432 | | | | | | | | |
| 3.7 | 18000 | 120000 | 376 | | | | | | | | |
| 4.2 | 18000 | 120000 | 335 | | | | | | | | |
| 4.6 | 18000 | 120000 | 303 | | | | | | | | |
| 5.0 | 18000 | 120000 | 279 | | | | | | | | |

TR..168/TRF108 $n_1=1400$ r/min

18000Nm

| n_2 [r/min] | M_2 max [Nm] | Fr_2 [N] | i | MY100 | MY112 | MY132S MY132M | MY132ML MY160M | MY180 | MY200 MY225S MY225M |
|------------------------|-------------------|---------------|------|-------|-------|------------------|-------------------|-------|---------------------------|
| 3Stage / 3Stage | | | | | | | | | |
| 0.38 | 18000 | 120000 | 3637 | | | | | | |
| 0.42 | 18000 | 120000 | 3330 | | | | | | |
| 0.51 | 18000 | 120000 | 2757 | | | | | | |
| 0.57 | 18000 | 120000 | 2436 | | | | | | |
| 0.61 | 18000 | 120000 | 2298 | | | | | | |
| 0.68 | 18000 | 120000 | 2066 | | | | | | |
| 0.76 | 18000 | 120000 | 1849 | | | | | | |
| 0.84 | 18000 | 120000 | 1674 | | | | | | |
| 0.94 | 18000 | 120000 | 1485 | | | | | | |
| 1.0 | 18000 | 120000 | 1342 | | | | | | |
| 1.1 | 18000 | 120000 | 1229 | | | | | | |
| 1.3 | 18000 | 120000 | 1111 | | | | | | |
| 1.5 | 18000 | 120000 | 950 | | | | | | |
| 1.6 | 18000 | 120000 | 860 | | | | | | |
| 1.8 | 18000 | 120000 | 763 | | | | | | |
| 2.0 | 18000 | 120000 | 690 | | | | | | |
| 2.4 | 18000 | 120000 | 585 | | | | | | |
| 2.7 | 18000 | 120000 | 511 | | | | | | |
| 3Stage / 2Stage | | | | | | | | | |
| 4.0 | 18000 | 120000 | 349 | | | | | | |
| 4.7 | 18000 | 120000 | 295 | | | | | | |
| 5.2 | 18000 | 120000 | 270 | | | | | | |
| 6.1 | 18000 | 120000 | 229 | | | | | | |
| 7.0 | 18000 | 120000 | 200 | | | | | | |
| 8.3 | 18000 | 120000 | 169 | | | | | | |
| 2Stage / 2Stage | | | | | | | | | |
| 3.1 | 18000 | 120000 | 446 | | | | | | |
| 3.5 | 18000 | 120000 | 399 | | | | | | |
| 3.9 | 18000 | 120000 | 361 | | | | | | |
| 4.3 | 18000 | 120000 | 328 | | | | | | |
| 4.8 | 18000 | 120000 | 291 | | | | | | |
| 5.3 | 18000 | 120000 | 264 | | | | | | |
| 6.2 | 18000 | 120000 | 227 | | | | | | |
| 7.1 | 18000 | 120000 | 198 | | | | | | |
| 8.3 | 18000 | 120000 | 168 | | | | | | |

6.2 TR..MY.. 性能参数 / Performance parameter

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
|------------------|------------------|------------------|-------|-----------------|-------------------------|--|------|
| 0.12 | 0.06 | 13300 | 21342 | 62000 | 1.00 | TR 148 / TRF78 MY 63S4 | 166 |
| | 0.08 | 11400 | 18210 | 65700 | 1.15 | TRF 148 / TRF78 MY 63S4 | 166 |
| | 0.09 | 9930 | 15923 | 67900 | 1.30 | | |
| | 0.10 | 8780 | 14075 | 69400 | 1.50 | | |
| | 0.11 | 7650 | 12344 | 70700 | 1.70 | | |
| | 0.12 | 6740 | 11143 | 71600 | 1.95 | | |
| | 0.14 | 6040 | 9743 | 72200 | 2.2 | | |
| | 0.16 | 4830 | 8443 | 73100 | 2.7 | | |
| | 0.19 | 4180 | 7307 | 73400 | 3.1 | | |
| | 0.21 | 3690 | 6447 | 73700 | 3.5 | | |
| | 0.25 | 3190 | 5568 | 73900 | 4.1 | | |
| | 0.11 | 8060 | 12921 | 53300 | 1.00 | TR 138 / TRF78 MY 63S4 | 166 |
| | 0.12 | 7260 | 11712 | 54900 | 1.10 | TRF 138 / TRF78 MY 63S4 | 166 |
| | 0.13 | 6390 | 10573 | 56400 | 1.25 | | |
| | 0.16 | 5030 | 8784 | 58400 | 1.60 | | |
| | 0.18 | 4090 | 7479 | 59400 | 1.95 | | |
| | 0.21 | 4060 | 6559 | 59400 | 1.95 | | |
| | 0.24 | 3190 | 5834 | 60200 | 2.5 | | |
| | 0.27 | 3170 | 5116 | 60200 | 2.5 | | |
| | 0.18 | 4410 | 7583 | 28800 | 0.95 | TR 108 / TRF78 MY 63S4 | 166 |
| | 0.20 | 3690 | 6743 | 32400 | 1.15 | TRF 108 / TRF78 MY 63S4 | 166 |
| | 0.23 | 3660 | 5914 | 32500 | 1.15 | | |
| 0.27 | 2830 | 5168 | 35500 | 1.50 | | | |
| 0.31 | 2540 | 4435 | 36100 | 1.70 | | | |
| 0.35 | 2270 | 3896 | 36500 | 1.90 | | | |
| 0.45 | 1880 | 3039 | 36900 | 2.3 | | | |
| 0.35 | 2470 | 3918 | 36200 | 1.75 | TR 108 / TRF78 MY 63S4 | 166 | |
| 0.41 | 2110 | 3343 | 36700 | 2.0 | TRF 108 / TRF78 MY 63S4 | 166 | |
| 0.45 | 1910 | 3034 | 36900 | 2.3 | | | |
| 0.52 | 1670 | 2653 | 37100 | 2.6 | | | |
| 0.61 | 1440 | 2280 | 37300 | 3.0 | | | |
| 0.67 | 1300 | 2067 | 37400 | 3.3 | | | |
| 0.30 | 3050 | 4559 | 17700 | 1.00 | TR 98 / TRF58 MY 63S4 | 166 | |
| 0.34 | 2570 | 4004 | 23700 | 1.15 | TRF 98 / TRF58 MY 63S4 | 166 | |
| 0.40 | 2270 | 3481 | 25200 | 1.30 | | | |
| 0.29 | 3240 | 4678 | 18400 | 0.95 | TR 98 / TRF58 MY 63S4 | 166 | |
| 0.32 | 2980 | 4309 | 20400 | 1.00 | TRF 98 / TRF58 MY 63S4 | 166 | |
| 0.37 | 2560 | 3702 | 23700 | 1.15 | | | |
| 0.46 | 2080 | 3019 | 26100 | 1.45 | | | |
| 0.52 | 1810 | 2668 | 27100 | 1.65 | | | |
| 0.61 | 1480 | 2245 | 27700 | 2.0 | | | |
| 0.68 | 1310 | 2016 | 27900 | 2.3 | | | |
| 0.80 | 1200 | 1733 | 28000 | 2.5 | | | |
| 0.45 | 2120 | 3065 | 25900 | 1.40 | TR 98 / TRF58 MY 63S4 | 166 | |
| 0.51 | 1880 | 2722 | 26800 | 1.60 | TRF 98 / TRF58 MY 63S4 | 166 | |
| 0.60 | 1590 | 2311 | 27500 | 1.90 | | | |
| 0.66 | 1430 | 2078 | 27700 | 2.1 | | | |
| 0.76 | 1240 | 1823 | 28000 | 2.4 | | | |
| 0.87 | 1070 | 1583 | 28200 | 2.8 | | | |
| 0.99 | 910 | 1396 | 28300 | 3.3 | | | |
| 1.10 | 775 | 1228 | 28400 | 3.9 | | | |
| 0.48 | 1770 | 2873 | 15200 | 0.90 | TR 88 / TRF58 MY 63S4 | 166 | |
| 0.70 | 1300 | 1961 | 18500 | 1.20 | TRF 88 / TRF58 MY 63S4 | 166 | |
| 0.53 | 1790 | 2595 | 15000 | 0.85 | TR 88 / TRF58 MY 63S4 | 166 | |
| 0.65 | 1430 | 2129 | 17700 | 1.10 | TRF 88 / TRF58 MY 63S4 | 166 | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | | | | Page |
|------------------|------------------|------------------|------|-----------------|-------|--|------------|------|------|------|
| 0.12 | 0.72 | 1270 | 1930 | 18600 | 1.20 | TR | 88 / TRF58 | MY | 63S4 | 166 |
| | 0.80 | 1120 | 1733 | 19300 | 1.40 | TRF | 88 / TRF58 | MY | 63S4 | 166 |
| | 0.79 | 1150 | 1737 | 19200 | 1.35 | TR | 88 / TRF58 | MY | 63S4 | 166 |
| | 0.91 | 1010 | 1524 | 19800 | 1.55 | TRF | 88 / TRF58 | MY | 63S4 | 166 |
| | 1.1 | 810 | 1303 | 20000 | 1.90 | | | | | |
| | 1.2 | 710 | 1143 | 20000 | 2.2 | | | | | |
| | 1.6 | 585 | 885 | 20000 | 2.7 | | | | | |
| | 1.8 | 515 | 776 | 20000 | 3.0 | | | | | |
| | 2.0 | 450 | 685 | 20000 | 3.4 | | | | | |
| | 2.3 | 360 | 599 | 20000 | 4.3 | | | | | |
| | 1.1 | 940 | 1303 | 8660 | 0.85 | TR | 78 / TRF38 | MY | 63S4 | 166 |
| | 1.2 | 800 | 1124 | 10100 | 1.05 | TRF | 78 / TRF38 | MY | 63S4 | 166 |
| | 1.3 | 740 | 1047 | 10600 | 1.10 | | | | | |
| | 1.5 | 640 | 915 | 11300 | 1.30 | | | | | |
| | 1.1 | 820 | 1218 | 9910 | 1.00 | TR | 78 / TRF38 | MY | 63S4 | 166 |
| | 1.3 | 740 | 1084 | 10600 | 1.10 | TRF | 78 / TRF38 | MY | 63S4 | 166 |
| | 1.5 | 665 | 940 | 11200 | 1.25 | | | | | |
| | 1.7 | 525 | 821 | 12000 | 1.55 | | | | | |
| | 1.9 | 480 | 731 | 12200 | 1.70 | | | | | |
| | 2.1 | 460 | 646 | 12300 | 1.80 | | | | | |
| | 2.6 | 380 | 520 | 12600 | 2.2 | TR | 78 / TRF38 | MY | 63S4 | 166 |
| | 3.1 | 325 | 451 | 12700 | 2.5 | TRF | 78 / TRF38 | MY | 63S4 | 166 |
| | 3.3 | 300 | 422 | 12800 | 2.7 | | | | | |
| | 3.8 | 255 | 365 | 12900 | 3.2 | | | | | |
| | 1.6 | 630 | 891 | 7190 | 0.95 | TR | 68 / TRF38 | MY | 63S4 | 166 |
| | 1.9 | 505 | 730 | 8530 | 1.20 | TRF | 68 / TRF38 | MY | 63S4 | 166 |
| | 2.1 | 440 | 644 | 9060 | 1.35 | | | | | |
| | 2.4 | 385 | 571 | 9430 | 1.55 | | | | | |
| | 2.8 | 320 | 486 | 9790 | 1.85 | | | | | |
| | 1.7 | 590 | 836 | 7670 | 1.00 | TR | 68 / TRF38 | MY | 63S4 | 166 |
| | 1.8 | 495 | 750 | 8630 | 1.20 | TRF | 68 / TRF38 | MY | 63S4 | 166 |
| | 2.1 | 440 | 646 | 9050 | 1.35 | | | | | |
| | 2.4 | 400 | 574 | 9330 | 1.50 | | | | | |
| | 2.8 | 345 | 495 | 9660 | 1.75 | | | | | |
| | 3.1 | 285 | 438 | 9940 | 2.1 | | | | | |
| | 1.8 | 550 | 782 | 4650 | 0.80 | TR | 58 / TRF38 | MY | 63S4 | 166 |
| | 2.0 | 455 | 678 | 7070 | 1.00 | TRF | 58 / TRF38 | MY | 63S4 | 166 |
| | 2.3 | 415 | 604 | 7260 | 1.10 | | | | | |
| | 2.6 | 375 | 537 | 7400 | 1.20 | | | | | |
| | 2.9 | 330 | 471 | 7550 | 1.35 | | | | | |
| | 3.9 | 245 | 357 | 7770 | 1.85 | | | | | |
| | 4.3 | 215 | 319 | 7830 | 2.10 | | | | | |
| | 3.8 | 260 | 359 | 7730 | 1.75 | TR | 58 / TRF38 | MY | 63S4 | 166 |
| | 4.3 | 235 | 324 | 7790 | 1.95 | TRF | 58 / TRF38 | MY | 63S4 | 166 |
| | 4.8 | 205 | 290 | 7840 | 2.2 | | | | | |
| | 5.3 | 185 | 262 | 7880 | 2.4 | | | | | |
| 5.6 | 171 | 246 | 7900 | 2.6 | | | | | | |
| 6.3 | 150 | 220 | 7930 | 3.0 | | | | | | |
| 2.7 | 345 | 510 | 4360 | 0.85 | TR | 48 / TRF38 | MY | 63S4 | 166 | |
| 3.2 | 285 | 436 | 5490 | 1.05 | TRF | 48 / TRF38 | MY | 63S4 | 166 | |
| 3.4 | 265 | 408 | 5590 | 1.10 | | | | | | |
| 4.0 | 220 | 344 | 5790 | 1.35 | | | | | | |
| 2.8 | 365 | 502 | 3020 | 0.80 | TR | 48 / TRF38 | MY | 63S4 | 166 | |
| 3.2 | 315 | 429 | 5350 | 0.95 | TRF | 48 / TRF38 | MY | 63S4 | 166 | |
| 3.7 | 270 | 372 | 5580 | 1.10 | | | | | | |
| 4.0 | 250 | 348 | 5670 | 1.20 | | | | | | |
| 4.6 | 210 | 301 | 5810 | 1.40 | | | | | | |
| 5.4 | 177 | 255 | 5930 | 1.70 | | | | | | |
| 6.0 | 156 | 228 | 5980 | 1.95 | | | | | | |
| 7.1 | 130 | 195 | 6040 | 2.3 | | | | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
|------------------|------------------|------------------|---------|-----------------|----------------|--|------|
| 0.12 | 4.1 | 225 | 338 | 4570 | 0.90 | TR 38 / TRF18 MY 63S4 | 166 |
| | 4.7 | 210 | 296 | 4790 | 0.95 | TR F 38 / TRF18 MY 63S4 | 166 |
| | 5.3 | 184 | 259 | 5130 | 1.10 | | |
| | 6.0 | 163 | 228 | 5360 | 1.25 | | |
| | 6.9 | 140 | 199 | 5550 | 1.40 | | |
| | 8.0 | 123 | 172 | 5680 | 1.65 | | |
| | 4.2 | 240 | 328 | 3730 | 0.85 | TR 38 / TRF18 MY 63S4 | 166 |
| | 4.8 | 205 | 289 | 4880 | 1.00 | TR F 38 / TRF18 MY 63S4 | 166 |
| | 5.2 | 192 | 265 | 5040 | 1.05 | | |
| | 6.1 | 156 | 226 | 5410 | 1.30 | | |
| | 6.8 | 144 | 202 | 5530 | 1.40 | | |
| | 7.7 | 125 | 179 | 5660 | 1.60 | | |
| | 6.0 | 158 | 229 | 4090 | 0.80 | TR 28 / TRF18 MY 63S4 | 166 |
| | 6.9 | 138 | 200 | 4200 | 0.95 | TR F 28 / TRF18 MY 63S4 | 166 |
| | 7.8 | 121 | 177 | 4270 | 1.05 | | |
| | 8.3 | 116 | 166 | 4290 | 1.10 | | |
| | 6.1 | 157 | 227 | 4100 | 0.85 | TR 28 / TRF18 MY 63S4 | 166 |
| | 6.8 | 144 | 203 | 4170 | 0.90 | TR F 28 / TRF18 MY 63S4 | 166 |
| | 7.7 | 125 | 179 | 4260 | 1.05 | | |
| | 8.8 | 106 | 156 | 4330 | 1.25 | | |
| | 4.6 | 250 | 195.24* | 12900 | 3.3 | TR 78 MY 63M6 | 150 |
| | 5.4 | 210 | 166.59 | 13000 | 3.9 | TRF 78 MY 63M6 | 151 |
| | 6.2 | 186 | 145.67 | 13000 | 4.4 | | |
| | 4.5 | 255 | 199.81 | 10100 | 2.4 | TR 68 MY 63M6 | 147 |
| | 4.9 | 235 | 184.07 | 10100 | 2.6 | TRF 68 MY 63M6 | 148 |
| | 5.7 | 200 | 158.14 | 10300 | 3.0 | | |
| | 6.5 | 175 | 137.67 | 10300 | 3.4 | | |
| | 7.0 | 164 | 128.97 | 10400 | 3.7 | | |
| | 7.9 | 145 | 113.94 | 10400 | 4.1 | | |
| | 6.9 | 166 | 199.81 | 10300 | 3.6 | TR 68 MY 63S4 | 147 |
| | 7.5 | 153 | 184.07 | 10400 | 3.9 | TRF 68 MY 63S4 | 148 |
| | 4.8 | 240 | 186.89 | 7780 | 1.9 | TR 58 MY 63M6 | 144 |
| | 5.2 | 220 | 172.17 | 7820 | 2.1 | TRF 58 MY 63M6 | 145 |
| | 6.1 | 188 | 147.92 | 7870 | 2.4 | | |
| | 7.0 | 164 | 128.77 | 7910 | 2.7 | | |
| | 7.5 | 154 | 120.63 | 7920 | 2.9 | | |
| | 8.4 | 136 | 106.58 | 7950 | 3.3 | | |
| | 9.1 | 126 | 98.99 | 7960 | 3.6 | | |
| | 7.4 | 155 | 186.89 | 7920 | 2.9 | TR 58 MY 63S4 | 144 |
| | 8.0 | 143 | 172.17 | 7940 | 3.2 | TRF 58 MY 63S4 | 145 |
| | 9.3 | 123 | 147.92 | 7960 | 3.7 | | |
| | 11 | 107 | 128.77 | 7980 | 4.2 | | |
| | 5.1 | 225 | 176.88 | 5760 | 1.35 | TR 48 MY 63M6 | 141 |
| | 5.5 | 210 | 162.94 | 5830 | 1.45 | TRF 48 MY 63M6 | 142 |
| | 6.4 | 178 | 139.99 | 5920 | 1.70 | | |
| | 7.4 | 155 | 121.87 | 5980 | 1.95 | | |
| | 7.8 | 147 | 176.88 | 6000 | 2.0 | TR 48 MY 63M6 | 141 |
| | 8.5 | 135 | 162.94 | 6030 | 2.2 | TRF 48 MY 63M6 | 142 |
| | 9.9 | 116 | 139.99 | 6070 | 2.6 | | |
| | 11 | 101 | 121.87 | 6100 | 3.0 | | |
| 12 | 95 | 114.17 | 6110 | 3.2 | | | |
| 14 | 84 | 100.86 | 6120 | 3.6 | | | |
| 15 | 78 | 93.68 | 6130 | 3.9 | | | |
| 6.7 | 172 | 134.82 | 5270 | 1.15 | TR 38 MY 63M6 | 138 | |
| 7.3 | 157 | 123.66 | 5410 | 1.25 | TRF 38 MY 63M6 | 139 | |
| 8.6 | 134 | 105.28 | 5600 | 1.50 | | | |
| 9.9 | 116 | 90.77 | 5730 | 1.75 | | | |
| 11 | 108 | 84.61 | 5770 | 1.85 | | | |
| 12 | 94 | 73.96 | 5850 | 2.1 | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
|------------------|------------------|------------------|--------|-----------------|---------|--|-------------|
| 0.12 | 10 | 112 | 134.82 | 5750 | 1.80 | TR 38 | MY 63M6 138 |
| | 11 | 103 | 123.66 | 5800 | 1.95 | TRF 38 | MY 63M6 139 |
| | 13 | 87 | 105.28 | 5880 | 2.3 | | |
| | 15 | 75 | 90.77 | 5930 | 2.7 | | |
| | 16 | 70 | 84.61 | 5950 | 2.8 | | |
| | 19 | 61 | 73.96 | 5980 | 3.3 | | |
| | 7.3 | 158 | 123.91 | 4090 | 0.80 | TR 28 | MY 63M6 135 |
| | 8.5 | 134 | 105.49 | 4210 | 0.95 | TRF 28 | MY 63M6 136 |
| | 9.9 | 116 | 90.96 | 4300 | 1.10 | | |
| | 11 | 108 | 84.78 | 4330 | 1.20 | | |
| | 12 | 94 | 74.11 | 4370 | 1.40 | | |
| | 10 | 112 | 135.09 | 4310 | 1.15 | TR 28 | MY 63S4 135 |
| | 11 | 103 | 123.91 | 4340 | 1.25 | TRF 28 | MY 63S4 136 |
| | 13 | 88 | 105.49 | 4390 | 1.50 | | |
| | 15 | 76 | 90.96 | 4430 | 1.70 | | |
| | 16 | 70 | 84.78 | 4440 | 1.85 | | |
| | 19 | 62 | 74.11 | 4460 | 2.1 | | |
| | 20 | 58 | 69.47 | 4470 | 2.3 | | |
| | 23 | 51 | 61.30 | 4400 | 2.6 | | |
| | 25 | 46 | 55.87 | 4280 | 2.8 | | |
| | 29 | 40 | 48.17 | 4090 | 3.3 | | |
| | 31 | 37 | 44.90 | 4000 | 3.5 | | |
| | 11 | 104 | 81.64 | 300 | 0.80 | TR 18 | MY 63M4 132 |
| | 13 | 90 | 70.39 | 1470 | 0.95 | TRF 18 | MY 63M4 133 |
| | 14 | 84 | 65.61 | 1860 | 1.00 | | |
| | 16 | 73 | 57.35 | 2430 | 1.15 | | |
| | 17 | 68 | 53.76 | 2500 | 1.25 | | |
| | 19 | 60 | 47.44 | 2500 | 1.40 | | |
| | 17 | 68 | 81.64 | 2500 | 1.25 | TR 18 | MY 63S4 132 |
| | 20 | 58 | 70.39 | 2500 | 1.45 | TRF 18 | MY 63S4 133 |
| | 21 | 55 | 65.61 | 2500 | 1.55 | | |
| | 24 | 48 | 57.35 | 2500 | 1.80 | | |
| | 26 | 45 | 53.76 | 2500 | 1.90 | | |
| | 29 | 39 | 47.44 | 2500 | 2.2 | | |
| | 31 | 37 | 44.18 | 2500 | 2.3 | | |
| | 36 | 32 | 38.61 | 2430 | 2.7 | | |
| | 38 | 30 | 36.20 | 2390 | 2.8 | | |
| | 43 | 27 | 31.94 | 2310 | 3.2 | | |
| | 49 | 24 | 28.32 | 2230 | 3.6 | | |
| | 57 | 20 | 24.07 | 2130 | 4.3 | | |
| | 227 | 5.0 | 6.07 | 4270 | 8.6 | TRX 68 | MY 63S4 122 |
| | 267 | 4.3 | 5.18 | 4050 | 17 | TRXF 68 | MY 63S4 123 |
| | 305 | 3.8 | 4.53 | 3870 | 22 | | |
| | 321 | 3.6 | 4.30* | 3810 | 22 | | |
| | 251 | 4.6 | 5.50* | 3360 | 8.5 | TRX 58 | MY 63S4 120 |
| 272 | 4.2 | 5.07 | 3270 | 8.6 | TRXF 58 | MY 63S4 121 | |
| 317 | 3.6 | 4.35 | 3120 | 19 | | | |
| 364 | 3.1 | 3.79 | 2980 | 22 | | | |
| 389 | 2.9 | 3.55* | 2910 | 24 | | | |
| 440 | 2.6 | 3.14 | 2800 | 25 | | | |
| 474 | 2.4 | 2.91 | 2730 | 28 | | | |
| 523 | 2.2 | 2.64* | 2640 | 31 | | | |
| 582 | 2.0 | 2.37 | 2550 | 35 | | | |
| 676 | 1.7 | 2.04 | 2430 | 41 | | | |
| 719 | 1.6 | 1.92* | 2380 | 43 | | | |
| 835 | 1.4 | 1.65 | 2260 | 49 | | | |
| 0.18 | 0.09 | 15000 | 14075 | 50900 | 0.85 | TR 148 / TRF78 | MY 63M4 166 |
| | 0.11 | 13100 | 12344 | 62500 | 1.00 | TRF 148 / TRF78 | MY 63M4 166 |
| | 0.12 | 11600 | 11143 | 65200 | 1.10 | | |
| | 0.14 | 10300 | 9743 | 67300 | 1.25 | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | | | | Page |
|------------------|------------------|------------------|-------|-----------------|-------|--|-------------|------|------|------|
| 0.18 | 0.16 | 8550 | 8443 | 69700 | 1.50 | TR | 148 / TRF78 | MY | 63M4 | 166 |
| | 0.18 | 7400 | 7307 | 70900 | 1.75 | TRF | 148 / TRF78 | MY | 63M4 | 166 |
| | 0.20 | 6530 | 6447 | 71800 | 2.0 | | | | | |
| | 0.24 | 5640 | 5568 | 72500 | 2.3 | | | | | |
| | 0.27 | 5150 | 4926 | 72800 | 2.5 | | | | | |
| | 0.31 | 4420 | 4325 | 73300 | 2.9 | | | | | |
| | 0.35 | 3920 | 3754 | 73600 | 3.3 | | | | | |
| | 0.40 | 3380 | 3302 | 73800 | 3.9 | | | | | |
| | 0.15 | 8900 | 8784 | 50100 | 0.90 | TR | 138 / TRF78 | MY | 63M4 | 166 |
| | 0.18 | 7390 | 7479 | 54600 | 1.10 | TRF | 138 / TRF78 | MY | 63M4 | 166 |
| | 0.20 | 6950 | 6559 | 55500 | 1.15 | | | | | |
| | 0.23 | 5770 | 5834 | 57400 | 1.40 | | | | | |
| | 0.26 | 5420 | 5116 | 57900 | 1.50 | | | | | |
| | 0.30 | 4520 | 4464 | 59000 | 1.75 | | | | | |
| | 0.34 | 3980 | 3928 | 59500 | 2.0 | | | | | |
| | 0.28 | 5060 | 4709 | 58300 | 1.60 | TR | 138 / TRF78 | MY | 63M4 | 166 |
| | 0.33 | 4320 | 4018 | 59200 | 1.85 | TRF | 138 / TRF78 | MY | 63M4 | 166 |
| | 0.38 | 3780 | 3514 | 59700 | 2.1 | | | | | |
| | 0.40 | 3590 | 3338 | 59900 | 2.2 | | | | | |
| | 0.45 | 3150 | 2929 | 60200 | 2.5 | | | | | |
| | 0.30 | 4490 | 4435 | 28400 | 0.95 | TR | 108 / TRF78 | MY | 63M4 | 166 |
| | 0.34 | 3980 | 3896 | 31100 | 1.10 | TRF | 108 / TRF78 | MY | 63M4 | 166 |
| | 0.43 | 3220 | 3039 | 34200 | 1.35 | | | | | |
| | 0.34 | 4210 | 3918 | 29900 | 1.00 | TR | 108 / TRF78 | MY | 63M4 | 166 |
| | 0.39 | 3590 | 3343 | 32800 | 1.20 | TRF | 108 / TRF78 | MY | 63M4 | 166 |
| | 0.44 | 3260 | 3034 | 34100 | 1.30 | | | | | |
| | 0.50 | 2850 | 2653 | 35400 | 1.50 | | | | | |
| | 0.58 | 2450 | 2280 | 36200 | 1.75 | | | | | |
| | 0.64 | 2220 | 2067 | 36500 | 1.95 | | | | | |
| | 0.66 | 2100 | 1987 | 36700 | 2.1 | TR | 108 / TRF78 | MY | 63M4 | 166 |
| | 0.72 | 1870 | 1827 | 36900 | 2.3 | TRF | 108 / TRF78 | MY | 63M4 | 166 |
| | 0.83 | 1600 | 1599 | 37200 | 2.7 | | | | | |
| | 0.94 | 1440 | 1400 | 37300 | 3.0 | | | | | |
| | 1.10 | 1230 | 1226 | 37400 | 3.5 | | | | | |
| | 0.49 | 3000 | 2668 | 20000 | 1.00 | TR | 98 / TRF58 | MY | 63M4 | 166 |
| | 0.59 | 2480 | 2245 | 24200 | 1.20 | TRF | 98 / TRF58 | MY | 63M4 | 166 |
| | 0.65 | 2210 | 2016 | 25500 | 1.35 | | | | | |
| | 0.76 | 1970 | 1733 | 26500 | 1.50 | | | | | |
| | 0.81 | 1840 | 1623 | 27000 | 1.65 | | | | | |
| | 0.92 | 1610 | 1434 | 27500 | 1.85 | | | | | |
| | 1.1 | 1330 | 1207 | 27900 | 2.3 | | | | | |
| | 1.2 | 1190 | 1084 | 28000 | 2.5 | | | | | |
| | 1.4 | 1000 | 934 | 28200 | 3.0 | | | | | |
| | 1.5 | 940 | 878 | 28300 | 3.2 | | | | | |
| | 1.8 | 790 | 755 | 28400 | 3.8 | | | | | |
| | 0.49 | 3090 | 2722 | 15900 | 0.95 | TR | 98 / TRF58 | MY | 63M4 | 166 |
| | 0.57 | 2620 | 2311 | 23400 | 1.15 | TRF | 98 / TRF58 | MY | 63M4 | 166 |
| | 0.64 | 2360 | 2078 | 24800 | 1.25 | | | | | |
| | 0.89 | 1690 | 1489 | 15900 | 0.90 | TR | 88 / TRF58 | MY | 63M4 | 166 |
| | 0.95 | 1580 | 1395 | 16700 | 1.00 | TRF | 88 / TRF58 | MY | 63M4 | 166 |
| 1.1 | 1380 | 1232 | 18000 | 1.10 | | | | | | |
| 1.2 | 1280 | 1145 | 18600 | 1.20 | | | | | | |
| 1.3 | 1150 | 1037 | 19200 | 1.35 | | | | | | |
| 1.4 | 1020 | 931 | 19800 | 1.50 | | | | | | |
| 1.7 | 860 | 802 | 20000 | 1.80 | | | | | | |
| 0.87 | 1680 | 1524 | 15900 | 0.90 | TR | 88 / TRF58 | MY | 63M4 | 166 | |
| 1.0 | 1390 | 1303 | 17900 | 1.10 | TRF | 88 / TRF58 | MY | 63M4 | 166 | |
| 1.2 | 1220 | 1143 | 18900 | 1.25 | | | | | | |
| 1.5 | 980 | 885 | 19900 | 1.60 | | | | | | |
| 1.7 | 860 | 776 | 20000 | 1.80 | | | | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | Fr_2 [N] | f_s |  | | | | Page |
|------------------|------------------|------------------|---------|---------------|-------|--|------------|----|------|------|
| 0.18 | 1.5 | 980 | 858 | 5830 | 0.85 | TR | 78 / TRF38 | MY | 63M4 | 166 |
| | 1.7 | 850 | 757 | 9590 | 0.95 | TRF | 78 / TRF38 | MY | 63M4 | 166 |
| | 2.0 | 750 | 671 | 10500 | 1.10 | | | | | |
| | 2.3 | 630 | 571 | 11400 | 1.30 | | | | | |
| | 1.6 | 890 | 821 | 9230 | 0.90 | TR | 78 / TRF38 | MY | 63M4 | 166 |
| | 1.8 | 800 | 731 | 10100 | 1.00 | TRF | 78 / TRF38 | MY | 63M4 | 166 |
| | 2.0 | 745 | 646 | 10500 | 1.10 | | | | | |
| | 2.4 | 645 | 560 | 11300 | 1.25 | | | | | |
| | 2.7 | 550 | 488 | 11800 | 1.50 | | | | | |
| | 3.0 | 490 | 436 | 12100 | 1.70 | | | | | |
| | 3.5 | 420 | 373 | 12400 | 1.95 | | | | | |
| | 4.0 | 370 | 327 | 12600 | 2.2 | | | | | |
| | 4.6 | 330 | 289 | 12700 | 2.5 | | | | | |
| | 2.3 | 640 | 571 | 7060 | 0.95 | TR | 68 / TRF38 | MY | 63M4 | 166 |
| | 2.7 | 535 | 486 | 8250 | 1.10 | TRF | 68 / TRF38 | MY | 63M4 | 166 |
| | 2.3 | 655 | 574 | 5820 | 0.90 | TR | 68 / TRF38 | MY | 63M4 | 166 |
| | 2.7 | 565 | 495 | 7950 | 1.05 | TRF | 68 / TRF38 | MY | 63M4 | 166 |
| | 3.0 | 480 | 438 | 8740 | 1.25 | | | | | |
| | 3.4 | 425 | 388 | 9160 | 1.40 | | | | | |
| | 3.8 | 395 | 344 | 9380 | 1.55 | | | | | |
| | 4.5 | 320 | 294 | 9800 | 1.90 | | | | | |
| | 5.1 | 290 | 261 | 9920 | 2.1 | | | | | |
| | 2.9 | 500 | 454 | 6650 | 0.90 | TR | 58 / TRF38 | MY | 63M4 | 166 |
| | 3.2 | 455 | 410 | 7090 | 1.00 | TRF | 58 / TRF38 | MY | 63M4 | 166 |
| | 2.8 | 540 | 471 | 5250 | 0.85 | TR | 58 / TRF38 | MY | 63M4 | 166 |
| | 3.7 | 405 | 357 | 7300 | 1.10 | TRF | 58 / TRF38 | MY | 63M4 | 166 |
| | 4.1 | 355 | 319 | 7460 | 1.25 | | | | | |
| | 4.8 | 300 | 273 | 7630 | 1.50 | | | | | |
| | 5.5 | 260 | 241 | 7730 | 1.75 | | | | | |
| | 6.1 | 235 | 215 | 7790 | 1.95 | | | | | |
| | 3.7 | 420 | 359 | 7230 | 1.05 | TR | 58 / TRF38 | MY | 63M4 | 166 |
| | 4.1 | 380 | 324 | 7380 | 1.20 | TRF | 58 / TRF38 | MY | 63M4 | 166 |
| | 4.5 | 335 | 290 | 7530 | 1.35 | | | | | |
| | 5.0 | 305 | 262 | 7620 | 1.50 | | | | | |
| | 5.4 | 280 | 246 | 7680 | 1.60 | | | | | |
| | 6.0 | 250 | 220 | 7750 | 1.80 | | | | | |
| | 7.0 | 210 | 188 | 7830 | 2.1 | | | | | |
| | 8.3 | 177 | 159 | 7890 | 2.6 | | | | | |
| | 4.4 | 350 | 301 | 4150 | 0.85 | TR | 48 / TRF38 | MY | 63M4 | 166 |
| | 5.2 | 290 | 255 | 5460 | 1.05 | TRF | 48 / TRF38 | MY | 63M4 | 166 |
| | 5.8 | 260 | 228 | 5630 | 1.15 | | | | | |
| | 6.8 | 220 | 195 | 5790 | 1.40 | | | | | |
| | 6.6 | 230 | 199 | 4510 | 0.85 | TR | 38 / TRF18 | MY | 63S4 | 166 |
| | 7.7 | 199 | 172 | 4960 | 1.00 | TR F | 38 / TRF18 | MY | 63S4 | 166 |
| | 8.8 | 173 | 150 | 5260 | 1.15 | | | | | |
| | 6.5 | 235 | 202 | 4050 | 0.85 | TR | 38 / TRF18 | MY | 63S4 | 166 |
| | 7.4 | 205 | 179 | 4870 | 0.95 | TR F | 38 / TRF18 | MY | 63S4 | 166 |
| | 8.5 | 176 | 156 | 5230 | 1.15 | | | | | |
| | 9.4 | 157 | 141 | 4100 | 0.85 | TR | 28 / TRF18 | MY | 63S4 | 166 |
| | 11 | 139 | 124 | 4190 | 0.95 | TR F | 28 / TRF18 | MY | 63S4 | 166 |
| | 12 | 125 | 110 | 4260 | 1.05 | | | | | |
| | 14 | 105 | 94 | 4340 | 1.25 | | | | | |
| | 9.8 | 152 | 135 | 4120 | 0.85 | TR | 28 / TRF18 | MY | 63S4 | 166 |
| | 11 | 139 | 118 | 4190 | 0.95 | TR F | 28 / TRF18 | MY | 63S4 | 166 |
| | 13 | 121 | 104 | 4270 | 1.10 | | | | | |
| | 15 | 105 | 90 | 4340 | 1.25 | | | | | |
| | 4.5 | 385 | 195.24* | 12500 | 2.1 | TR | 78 | MY | 63L6 | 150 |
| | 5.2 | 330 | 166.59 | 12700 | 2.5 | TRF | 78 | MY | 63L6 | 151 |
| | 6.0 | 290 | 145.67 | 12800 | 2.9 | | | | | |
| | 6.3 | 275 | 138.39 | 12900 | 3.0 | | | | | |
| | 7.2 | 240 | 121.42 | 12900 | 3.4 | | | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
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| 0.18 | 6.8 | 255 | 195.24* | 12900 | 3.2 | TR 78 | MY 63M4 150 |
| | 7.9 | 215 | 166.59 | 13000 | 3.8 | TRF 78 | MY 63M4 151 |
| | 9.1 | 190 | 145.67 | 13000 | 4.3 | | |
| | 9.5 | 180 | 138.39 | 13000 | 4.6 | | |
| | 4.4 | 395 | 199.81 | 9370 | 1.50 | TR 68 | MY 63L6 147 |
| | 4.7 | 365 | 184.07 | 9560 | 1.65 | TRF 68 | MY 63L6 148 |
| | 5.5 | 310 | 158.14 | 9830 | 1.90 | | |
| | 6.3 | 270 | 137.67 | 10000 | 2.2 | | |
| | 6.8 | 255 | 128.97 | 10100 | 2.4 | | |
| | 7.6 | 225 | 113.94 | 10200 | 2.7 | | |
| | 8.2 | 210 | 105.83 | 10200 | 2.9 | | |
| | 9.1 | 190 | 95.91 | 10300 | 3.2 | | |
| | 10 | 170 | 86.11 | 10300 | 3.5 | | |
| | 12 | 147 | 74.17 | 10400 | 4.1 | | |
| | 12 | 138 | 69.75 | 10400 | 4.4 | | |
| | 6.6 | 260 | 199.81 | 10100 | 2.3 | TR 68 | MY 63M4 147 |
| | 7.2 | 240 | 184.07 | 10100 | 2.5 | TRF 68 | MY 63M4 148 |
| | 8.3 | 205 | 158.14 | 10200 | 2.9 | | |
| | 9.6 | 179 | 137.67 | 10300 | 3.4 | | |
| | 10 | 168 | 128.97 | 10300 | 3.6 | | |
| | 12 | 148 | 113.94 | 10400 | 4.0 | | |
| | 12 | 138 | 105.83 | 10400 | 4.4 | | |
| | 4.7 | 370 | 186.89 | 7420 | 1.20 | TR 58 | MY 63L6 144 |
| | 5.0 | 340 | 172.17 | 7510 | 1.30 | TRF 58 | MY 63L6 145 |
| | 5.9 | 290 | 147.92 | 7650 | 1.55 | | |
| | 6.8 | 255 | 128.77 | 7740 | 1.75 | | |
| | 7.2 | 240 | 120.63 | 7780 | 1.90 | | |
| | 7.1 | 245 | 186.89 | 7770 | 1.85 | TR 58 | MY 63M4 144 |
| | 7.7 | 225 | 172.17 | 7810 | 2.0 | TRF 58 | MY 63M4 145 |
| | 8.9 | 193 | 147.92 | 7870 | 2.3 | | |
| | 10 | 168 | 128.77 | 7900 | 2.7 | | |
| | 11 | 157 | 120.63 | 7920 | 2.9 | | |
| | 12 | 139 | 106.58 | 7940 | 3.2 | | |
| | 13 | 129 | 98.99 | 7950 | 3.5 | | |
| | 15 | 117 | 89.71 | 7970 | 3.9 | | |
| | 7.5 | 230 | 176.88 | 5740 | 1.30 | TR 48 | MY 63M4 141 |
| | 8.1 | 210 | 162.94 | 5810 | 1.40 | TRF 48 | MY 63M4 142 |
| | 9.4 | 182 | 139.99 | 5910 | 1.65 | | |
| | 11 | 159 | 121.87 | 5980 | 1.90 | | |
| | 12 | 149 | 114.17 | 6000 | 2.0 | | |
| | 13 | 131 | 100.86 | 6040 | 2.3 | | |
| | 14 | 122 | 93.68 | 6060 | 2.5 | | |
| | 16 | 111 | 84.90 | 6080 | 2.7 | | |
| | 17 | 99 | 76.23 | 6100 | 3.0 | | |
| | 7.0 | 245 | 123.66 | 3060 | 0.80 | TR 38 | MY 63L6 138 |
| | 8.3 | 210 | 105.28 | 4840 | 0.95 | TRF 38 | MY 63L6 139 |
| | 9.6 | 179 | 90.77 | 5190 | 1.10 | | |
| | 10 | 167 | 84.61 | 5310 | 1.20 | | |
| 9.8 | 176 | 134.82 | 5230 | 1.15 | TR 38 | MY 63M4 138 | |
| 11 | 161 | 123.66 | 5370 | 1.25 | TRF 38 | MY 63M4 139 | |
| 13 | 137 | 105.28 | 5580 | 1.45 | | | |
| 15 | 118 | 90.77 | 5710 | 1.70 | | | |
| 16 | 110 | 84.61 | 5760 | 1.80 | | | |
| 18 | 96 | 73.96 | 5840 | 2.1 | | | |
| 19 | 90 | 69.33 | 5870 | 2.2 | | | |
| 22 | 80 | 61.18 | 5920 | 2.5 | | | |
| 24 | 73 | 55.76 | 5940 | 2.8 | | | |
| 27 | 63 | 48.08 | 5960 | 3.2 | | | |
| 11 | 161 | 123.91 | 4070 | 0.80 | TR 28 | MY 63M4 135 | |
| 13 | 137 | 105.49 | 4200 | 0.95 | TRF 28 | MY 63M4 136 | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
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| 0.18 | 15 | 118 | 90.96 | 4280 | 1.10 | TR 28 | MY 63M4 135 |
| | 16 | 110 | 84.78 | 4320 | 1.20 | TRF 28 | MY 63M4 136 |
| | 18 | 97 | 74.11 | 4370 | 1.35 | | |
| | 19 | 91 | 69.47 | 4380 | 1.45 | | |
| | 22 | 80 | 61.30 | 4320 | 1.65 | | |
| | 24 | 73 | 55.87 | 4210 | 1.80 | | |
| | 27 | 63 | 48.17 | 4040 | 2.1 | | |
| | 29 | 59 | 44.90 | 3960 | 2.2 | | |
| | 34 | 51 | 39.25 | 3810 | 2.5 | | |
| | 36 | 48 | 36.79 | 3740 | 2.7 | | |
| | 41 | 42 | 32.47 | 3610 | 3.1 | | |
| | 46 | 38 | 28.78 | 3480 | 3.5 | | |
| | 54 | 32 | 24.47 | 3310 | 4.1 | | |
| | 47 | 37 | 28.37 | 3470 | 3.5 | TR 28 | MY 63M4 135 |
| | 51 | 34 | 26.09 | 3380 | 3.8 | TRF 28 | MY 63M4 136 |
| | 59 | 29 | 22.32 | 3220 | 4.5 | | |
| | 68 | 25 | 19.35 | 3090 | 5.2 | | |
| | 73 | 24 | 18.08 | 3020 | 5.5 | | |
| | 84 | 20 | 15.63 | 2890 | 6.4 | | |
| | 99 | 17 | 13.28* | 2750 | 7.5 | | |
| | 16 | 106 | 81.64 | 46 | 0.80 | TR 18 | MY 63M4 132 |
| | 19 | 92 | 70.39 | 1330 | 0.95 | TRF 18 | MY 63M4 133 |
| | 20 | 85 | 65.61 | 1740 | 1.00 | | |
| | 23 | 75 | 57.35 | 2350 | 1.15 | | |
| | 25 | 70 | 53.76 | 2500 | 1.20 | | |
| | 28 | 62 | 47.44 | 2450 | 1.40 | | |
| | 30 | 58 | 44.18 | 2410 | 1.50 | | |
| | 34 | 50 | 38.61 | 2340 | 1.70 | | |
| | 36 | 47 | 36.20 | 2300 | 1.80 | | |
| | 41 | 42 | 31.94 | 2240 | 2.0 | | |
| | 47 | 37 | 28.32 | 2170 | 2.3 | | |
| | 55 | 31 | 24.07 | 2080 | 2.7 | | |
| | 52 | 33 | 25.23 | 2110 | 2.6 | | |
| | 57 | 30 | 23.15 | 2060 | 2.8 | | |
| | 67 | 26 | 19.71 | 1970 | 3.3 | | |
| | 78 | 22 | 16.99 | 1890 | 3.9 | | |
| | 143 | 12 | 6.07 | 4940 | 3.6 | TRX 68 | MY 63L6 122 |
| | 168 | 10 | 5.18 | 4690 | 7.4 | TRXF 68 | MY 63L6 123 |
| | 192 | 8.9 | 4.53 | 4490 | 9.2 | | |
| | 202 | 8.5 | 4.30* | 4410 | 9.4 | | |
| | 218 | 7.9 | 6.07 | 4310 | 5.4 | | |
| | 255 | 6.7 | 5.18 | 4090 | 11 | TRX 68 | MY 63M4 122 |
| 292 | 5.9 | 4.53 | 3920 | 14 | TRXF 68 | MY 63M4 123 | |
| 307 | 5.6 | 4.30* | 3850 | 14 | | | |
| 350 | 4.9 | 3.77 | 3690 | 18 | | | |
| 413 | 4.2 | 3.20* | 3500 | 24 | | | |
| 457 | 3.8 | 2.89 | 3380 | 28 | | | |
| 519 | 3.3 | 2.54 | 3240 | 36 | | | |
| 550 | 3.1 | 2.40* | 3180 | 40 | | | |
| 646 | 2.7 | 2.04 | 3020 | 50 | | | |
| 158 | 11 | 5.50* | 3880 | 3.6 | TRX 58 | MY 63L6 120 | |
| 172 | 10 | 5.07 | 3780 | 3.6 | TRXF 58 | MY 63L6 121 | |
| 200 | 8.6 | 4.35 | 3600 | 7.9 | | | |
| 230 | 7.5 | 3.79 | 3440 | 9.2 | | | |
| 240 | 7.2 | 5.50* | 3400 | 5.4 | TRX 58 | MY 63M4 120 | |
| 261 | 6.6 | 5.07 | 3310 | 5.5 | TRXF 58 | MY 63M4 121 | |
| 303 | 5.7 | 4.35 | 3150 | 12 | | | |
| 348 | 4.9 | 3.79 | 3010 | 14 | | | |
| 372 | 4.6 | 3.55* | 2950 | 15 | | | |
| 421 | 4.1 | 3.14 | 2830 | 16 | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
|------------------|------------------|------------------|-------|-----------------|----------------|--|-------------|
| 0.18 | 453 | 3.8 | 2.91 | 2760 | 18 | TRX 58 | MY 63M4 120 |
| | 500 | 3.4 | 2.64* | 2670 | 20 | TRXF 58 | MY 63M4 121 |
| | 557 | 3.1 | 2.37 | 2580 | 22 | | |
| | 647 | 2.7 | 2.04 | 2460 | 26 | | |
| | 688 | 2.5 | 1.92* | 2410 | 28 | | |
| | 799 | 2.2 | 1.65 | 2290 | 31 | | |
| 0.25 | 0.13 | 15200 | 9743 | 48200 | 0.85 | TR 148 / TRF78 | MY 63L4 166 |
| | 0.15 | 12800 | 8443 | 63100 | 1.00 | TRF 148 / TRF78 | MY 63L4 166 |
| | 0.18 | 11000 | 7307 | 66200 | 1.20 | | |
| | 0.20 | 9740 | 6447 | 68100 | 1.35 | | |
| | 0.23 | 8410 | 5568 | 69800 | 1.55 | | |
| | 0.26 | 7600 | 4926 | 70700 | 1.70 | | |
| | 0.30 | 6570 | 4325 | 71700 | 2.0 | | |
| | 0.35 | 5790 | 3754 | 72400 | 2.3 | | |
| | 0.39 | 5020 | 3302 | 72900 | 2.6 | | |
| | 0.45 | 4380 | 2898 | 73300 | 3.0 | | |
| | 0.22 | 8670 | 5834 | 51100 | 0.90 | TR 138 / TRF78 | MY 63L4 166 |
| | 0.25 | 7970 | 5116 | 53500 | 1.00 | TRF 138 / TRF78 | MY 63L4 166 |
| | 0.29 | 6740 | 4464 | 55800 | 1.20 | | |
| | 0.33 | 5930 | 3928 | 57100 | 1.35 | | |
| | 0.28 | 7430 | 4709 | 54600 | 1.10 | TR 138 / TRF78 | MY 63L4 166 |
| | 0.32 | 6340 | 4018 | 56500 | 1.25 | TRF 138 / TRF78 | MY 63L4 166 |
| | 0.37 | 5550 | 3514 | 57700 | 1.45 | | |
| | 0.39 | 5270 | 3338 | 58100 | 1.50 | | |
| | 0.44 | 4620 | 2929 | 58900 | 1.75 | | |
| | 0.49 | 4190 | 2658 | 59300 | 1.90 | TR 138 / TRF78 | MY 63L4 166 |
| | 0.54 | 3800 | 2412 | 59700 | 2.1 | TRF 138 / TRF78 | MY 63L4 166 |
| | 0.63 | 3270 | 2073 | 60100 | 2.5 | | |
| | 0.71 | 2810 | 1839 | 60500 | 2.8 | | |
| | 0.93 | 2180 | 1397 | 60800 | 3.7 | | |
| | 1.1 | 1890 | 1226 | 61000 | 4.2 | | |
| | 0.43 | 4730 | 3039 | 25600 | 0.90 | TR 108 / TRF78 | MY 63L4 166 |
| | | | | | | TRF 108 / TRF78 | MY 63L4 166 |
| | 0.43 | 4790 | 3034 | 23600 | 0.90 | TR 108 / TRF78 | MY 63L4 166 |
| | | | | | | TRF 108 / TRF78 | MY 63L4 166 |
| | 0.65 | 3100 | 1987 | 34600 | 1.40 | TR 108 / TRF78 | MY 63L4 166 |
| | 0.71 | 2790 | 1827 | 35600 | 1.55 | TRF 108 / TRF78 | MY 63L4 166 |
| | 0.81 | 2410 | 1599 | 36300 | 1.80 | | |
| | 0.93 | 2140 | 1400 | 36600 | 2.0 | | |
| | 1.1 | 1840 | 1226 | 36900 | 2.3 | | |
| | 1.4 | 1440 | 939 | 37300 | 3.0 | | |
| | 1.6 | 1240 | 822 | 37400 | 3.5 | | |
| | 0.75 | 2840 | 1733 | 22000 | 1.05 | TR 98 / TRF58 | MY 63L4 166 |
| | 0.80 | 2660 | 1623 | 23200 | 1.15 | TRF 98 / TRF58 | MY 63L4 166 |
| | 0.71 | 2960 | 1823 | 21100 | 1.00 | TR 98 / TRF58 | MY 63L4 166 |
| | 0.82 | 2570 | 1583 | 23700 | 1.15 | TRF 98 / TRF58 | MY 63L4 166 |
| | 0.93 | 2230 | 1396 | 25400 | 1.35 | | |
| | 1.1 | 1940 | 1228 | 26600 | 1.55 | | |
| 1.2 | 1750 | 1069 | 27300 | 1.70 | | | |
| 1.4 | 1530 | 938 | 27600 | 1.95 | | | |
| 1.6 | 1300 | 824 | 27900 | 2.3 | | | |
| 1.8 | 1160 | 737 | 28100 | 2.6 | | | |
| 2.1 | 1000 | 632 | 28200 | 3.0 | | | |
| 1.1 | 1850 | 1145 | 10700 | 0.85 | TR 88 / TRF58 | MY 63L4 166 | |
| 1.2 | 1670 | 1037 | 16000 | 0.95 | TRF 88 / TRF58 | MY 63L4 166 | |
| 1.4 | 1490 | 931 | 17400 | 1.05 | | | |
| 1.6 | 1270 | 802 | 18600 | 1.20 | | | |
| 1.1 | 1800 | 1143 | 14700 | 0.85 | TR 88 / TRF58 | MY 63L4 166 | |
| 1.5 | 1420 | 885 | 17800 | 1.10 | TRF 88 / TRF58 | MY 63L4 166 | |
| 1.7 | 1250 | 776 | 18700 | 1.25 | | | |
| 1.9 | 1100 | 685 | 19400 | 1.40 | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | | | | Page |
|------------------|------------------|------------------|--------|-----------------|-------|--|------------|----|------|------|
| 0.25 | 2.2 | 930 | 599 | 20000 | 1.65 | TR | 88 / TRF58 | MY | 63L4 | 166 |
| | 2.5 | 820 | 525 | 20000 | 1.90 | TRF | 88 / TRF58 | MY | 63L4 | 166 |
| | 2.9 | 715 | 456 | 20000 | 2.2 | | | | | |
| | 4.9 | 415 | 268 | 20000 | 3.7 | | | | | |
| | 2.3 | 920 | 571 | 8910 | 0.90 | TR | 78 / TRF38 | MY | 63L4 | 166 |
| | | | | | | TRF | 78 / TRF38 | MY | 63L4 | 166 |
| | 2.3 | 930 | 560 | 8780 | 0.90 | TR | 78 / TRF38 | MY | 63L4 | 166 |
| | 2.7 | 795 | 488 | 10100 | 1.05 | TRF | 78 / TRF38 | MY | 63L4 | 166 |
| | 3.0 | 705 | 436 | 10900 | 1.15 | | | | | |
| | 3.5 | 610 | 373 | 11500 | 1.35 | | | | | |
| | 4.0 | 535 | 327 | 11900 | 1.55 | | | | | |
| | 4.5 | 475 | 289 | 12200 | 1.75 | | | | | |
| | 5.0 | 425 | 260 | 12400 | 1.95 | | | | | |
| | 5.8 | 355 | 224 | 12600 | 2.3 | | | | | |
| | 3.4 | 620 | 388 | 7290 | 0.95 | TR | 68 / TRF38 | MY | 63L4 | 166 |
| | 3.8 | 565 | 344 | 7950 | 1.05 | TRF | 68 / TRF38 | MY | 63L4 | 166 |
| | 4.4 | 465 | 294 | 8870 | 1.30 | | | | | |
| | 5.0 | 425 | 261 | 9180 | 1.40 | | | | | |
| | 5.5 | 380 | 234 | 9460 | 1.60 | | | | | |
| | 6.5 | 320 | 200 | 9780 | 1.85 | | | | | |
| | 7.4 | 280 | 176 | 9980 | 2.2 | | | | | |
| | 8.2 | 250 | 158 | 10100 | 2.4 | | | | | |
| | 3.4 | 645 | 384 | 6960 | 0.95 | TR | 68 / TRF38 | MY | 63L4 | 166 |
| | 3.6 | 600 | 359 | 7550 | 1.00 | TRF | 68 / TRF38 | MY | 63L4 | 166 |
| | 4.2 | 515 | 310 | 8430 | 1.15 | | | | | |
| | 4.9 | 435 | 264 | 9100 | 1.40 | | | | | |
| | 5.5 | 385 | 235 | 9420 | 1.55 | | | | | |
| | 6.5 | 325 | 201 | 9750 | 1.85 | | | | | |
| | 7.2 | 295 | 181 | 9910 | 2.0 | | | | | |
| | 4.1 | 520 | 319 | 6050 | 0.85 | TR | 58 / TRF38 | MY | 63L4 | 166 |
| | 4.8 | 440 | 273 | 7160 | 1.05 | TRF | 58 / TRF38 | MY | 63L4 | 166 |
| | 5.4 | 380 | 241 | 7380 | 1.20 | | | | | |
| | 6.0 | 340 | 215 | 7510 | 1.30 | | | | | |
| | 7.0 | 300 | 187 | 7630 | 1.50 | | | | | |
| | 7.9 | 260 | 164 | 7730 | 1.75 | | | | | |
| | 9.2 | 225 | 142 | 7800 | 2.0 | | | | | |
| | 4.0 | 545 | 324 | 4980 | 0.85 | TR | 58 / TRF38 | MY | 63L4 | 166 |
| | 4.5 | 485 | 290 | 6950 | 0.95 | TRF | 58 / TRF38 | MY | 63L4 | 166 |
| | 5.0 | 435 | 262 | 7160 | 1.05 | | | | | |
| | 5.3 | 405 | 246 | 7280 | 1.10 | | | | | |
| | 5.9 | 360 | 220 | 7450 | 1.25 | | | | | |
| | 5.7 | 375 | 228 | 2440 | 0.80 | TR | 48 / TRF38 | MY | 63L4 | 166 |
| | 6.7 | 315 | 195 | 5320 | 0.95 | TRF | 48 / TRF38 | MY | 63L4 | 166 |
| | 7.1 | 295 | 182 | 5440 | 1.00 | | | | | |
| | 8.5 | 245 | 154 | 5680 | 1.20 | | | | | |
| | 8.7 | 250 | 150 | 2540 | 0.80 | TR | 38 / TRF18 | MY | 63S4 | 166 |
| | 10 | 210 | 130 | 4790 | 0.95 | TR F | 38 / TRF18 | MY | 63S4 | 166 |
| | 10 | 200 | 124 | 4930 | 1.00 | | | | | |
| | 12 | 178 | 110 | 5200 | 1.10 | | | | | |
| | 14 | 152 | 94 | 5460 | 1.30 | | | | | |
| | 9.7 | 220 | 135 | 4660 | 0.90 | TR | 38 / TRF18 | MY | 63S4 | 166 |
| | 10 | 215 | 127 | 4770 | 0.95 | TR F | 38 / TRF18 | MY | 63S4 | 166 |
| | 13 | 174 | 104 | 5250 | 1.15 | | | | | |
| | 14 | 150 | 90 | 5470 | 1.35 | | | | | |
| | 2.4 | 1020 | 289.74 | 28200 | 3.0 | TR | 98 | MY | 80N8 | 156 |
| | 2.7 | 900 | 255.71 | 28300 | 3.3 | TRF | 98 | MY | 80N8 | 157 |
| | 2.8 | 850 | 241.25 | 28400 | 3.5 | | | | | |
| | 3.1 | 760 | 216.28 | 28400 | 4.0 | | | | | |
| | 2.8 | 870 | 246.54 | 20000 | 1.80 | TR | 88 | MY | 80N8 | 153 |
| | 3.1 | 760 | 216.54 | 20000 | 2.0 | TRF | 88 | MY | 80N8 | 154 |

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| 0.25 | 3.3 | 720 | 205.71 | 20000 | 2.2 | TR 88 | MY 80N8 153 |
| | 3.7 | 640 | 181.77 | 20000 | 2.4 | TRF 88 | MY 80N8 154 |
| | 4.1 | 585 | 166.59 | 11600 | 1.40 | TR 78 | MY 80N8 150 |
| | 4.7 | 510 | 145.67 | 12000 | 1.60 | TRF 78 | MY 80N8 151 |
| | 4.9 | 485 | 138.39 | 12100 | 1.70 | | |
| | 5.6 | 425 | 121.42 | 12400 | 1.90 | | |
| | 4.5 | 530 | 195.24* | 11900 | 1.55 | TR 78 | MY 71D6 150 |
| | 5.3 | 450 | 166.59 | 12300 | 1.80 | TRF 78 | MY 71D6 151 |
| | 6.0 | 395 | 145.67 | 12500 | 2.1 | | |
| | 6.7 | 360 | 195.24* | 12600 | 2.3 | TR 78 | MY 63L4 150 |
| | 7.8 | 305 | 166.59 | 12800 | 2.7 | TRF 78 | MY 63L4 151 |
| | 8.9 | 270 | 145.67 | 12900 | 3.1 | | |
| | 9.4 | 255 | 138.39 | 12900 | 3.2 | | |
| | 11 | 225 | 121.42 | 13000 | 3.7 | | |
| | 4.3 | 555 | 158.14 | 8060 | 1.10 | TR 68 | MY 80N8 147 |
| | 4.9 | 485 | 137.67 | 8730 | 1.25 | TRF 68 | MY 80N8 148 |
| | 5.3 | 455 | 128.97 | 8970 | 1.35 | | |
| | 6.0 | 400 | 113.94 | 9340 | 1.50 | | |
| | 4.4 | 540 | 199.81 | 8190 | 1.10 | TR 68 | MY 71D6 147 |
| | 4.8 | 500 | 184.07 | 8590 | 1.20 | TRF 68 | MY 71D6 148 |
| | 5.6 | 430 | 158.14 | 9140 | 1.40 | | |
| | 6.4 | 375 | 137.67 | 9500 | 1.60 | | |
| | 6.8 | 350 | 128.97 | 9630 | 1.70 | | |
| | 7.7 | 310 | 113.94 | 9840 | 1.95 | | |
| | 8.3 | 285 | 105.83 | 9940 | 2.1 | | |
| | 6.5 | 365 | 199.81 | 9540 | 1.65 | TR 68 | MY 63L4 147 |
| | 7.1 | 340 | 184.07 | 9700 | 1.80 | TRF 68 | MY 63L4 148 |
| | 8.2 | 290 | 158.14 | 9930 | 2.1 | | |
| | 9.4 | 255 | 137.67 | 10100 | 2.4 | | |
| | 10 | 235 | 128.97 | 10100 | 2.5 | | |
| | 11 | 210 | 113.94 | 10200 | 2.9 | | |
| | 12 | 194 | 105.83 | 10300 | 3.1 | | |
| | 14 | 176 | 95.91 | 10300 | 3.4 | | |
| | 15 | 158 | 86.11 | 10400 | 3.8 | | |
| | 4.7 | 505 | 186.89 | 6450 | 0.90 | TR 58 | MY 71D6 144 |
| | 5.1 | 465 | 172.17 | 7030 | 0.95 | TRF 58 | MY 71D6 145 |
| | 6.0 | 400 | 147.92 | 7300 | 1.10 | | |
| | 6.8 | 350 | 128.77 | 7480 | 1.30 | | |
| | 7.3 | 325 | 120.63 | 7550 | 1.35 | | |
| | 8.3 | 290 | 106.58 | 7660 | 1.55 | | |
| | 8.9 | 270 | 98.99 | 7710 | 1.70 | | |
| | 7.0 | 345 | 186.89 | 7500 | 1.30 | TR 58 | MY 63L4 144 |
| | 7.5 | 315 | 172.17 | 7590 | 1.40 | TRF 58 | MY 63L4 145 |
| | 8.8 | 270 | 147.92 | 7700 | 1.65 | | |
| | 10 | 235 | 128.77 | 7780 | 1.90 | | |
| | 11 | 220 | 120.63 | 7810 | 2.0 | | |
| | 12 | 196 | 106.58 | 7860 | 2.3 | | |
| | 13 | 182 | 98.99 | 7880 | 2.5 | | |
| 14 | 165 | 89.71 | 7910 | 2.7 | | | |
| 16 | 148 | 80.55 | 7930 | 3.0 | | | |
| 19 | 127 | 69.23 | 7960 | 3.5 | | | |
| 7.4 | 325 | 176.88 | 5280 | 0.90 | TR 48 | MY 63L4 141 | |
| 8.0 | 300 | 162.94 | 5420 | 1.00 | TRF 48 | MY 63L4 142 | |
| 9.3 | 255 | 139.99 | 5630 | 1.15 | | | |
| 11 | 225 | 121.87 | 5770 | 1.35 | | | |
| 11 | 210 | 114.17 | 5820 | 1.45 | | | |
| 13 | 185 | 100.86 | 5900 | 1.60 | | | |
| 14 | 172 | 93.68 | 5940 | 1.75 | | | |
| 15 | 156 | 84.90 | 5980 | 1.90 | | | |
| 17 | 140 | 76.23 | 6020 | 2.1 | | | |

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| 0.25 | 19 | 126 | 68.54 | 6050 | 2.4 | TR 48 | MY 63L4 141 |
| | 20 | 118 | 64.21 | 6070 | 2.5 | TRF 48 | MY 63L4 142 |
| | 23 | 104 | 56.73 | 6090 | 2.9 | | |
| | 25 | 97 | 52.69 | 6100 | 3.1 | | |
| | 27 | 88 | 47.75 | 6080 | 3.4 | | |
| | 9.6 | 250 | 134.82 | 2630 | 0.80 | TR 38 | MY 63L4 138 |
| | 11 | 225 | 123.66 | 4560 | 0.90 | TRF 38 | MY 63L4 139 |
| | 12 | 193 | 105.28 | 5030 | 1.05 | | |
| | 14 | 167 | 90.77 | 5320 | 1.20 | | |
| | 15 | 155 | 84.61 | 5420 | 1.30 | | |
| | 18 | 136 | 73.96 | 5590 | 1.45 | | |
| | 19 | 127 | 69.33 | 5650 | 1.55 | | |
| | 21 | 112 | 61.18 | 5750 | 1.80 | | |
| | 23 | 102 | 55.76 | 5800 | 1.95 | | |
| | 27 | 88 | 48.08 | 5870 | 2.3 | | |
| | 29 | 82 | 44.81 | 5760 | 2.4 | | |
| | 33 | 72 | 39.17 | 5540 | 2.8 | | |
| | 35 | 67 | 36.72 | 5430 | 3.0 | | |
| | 40 | 60 | 32.40 | 5230 | 3.4 | | |
| | 15 | 156 | 84.78 | 4100 | 0.85 | TR 28 | MY 63L4 135 |
| | 18 | 136 | 74.11 | 4210 | 0.95 | TRF 28 | MY 63L4 136 |
| | 19 | 128 | 69.47 | 4250 | 1.00 | | |
| | 21 | 113 | 61.30 | 4190 | 1.15 | | |
| | 23 | 103 | 55.87 | 4090 | 1.25 | | |
| | 27 | 89 | 48.17 | 3940 | 1.45 | | |
| | 29 | 83 | 44.90 | 3870 | 1.60 | | |
| | 33 | 72 | 39.25 | 3730 | 1.80 | | |
| | 35 | 68 | 36.79 | 3670 | 1.90 | | |
| | 40 | 60 | 32.47 | 3540 | 2.2 | | |
| | 45 | 53 | 28.78 | 3420 | 2.5 | | |
| | 53 | 45 | 24.47 | 3270 | 2.9 | | |
| | 46 | 52 | 28.37 | 3410 | 2.5 | TR 28 | MY 63L4 135 |
| | 50 | 48 | 26.09 | 3330 | 2.7 | TRF 28 | MY 63L4 136 |
| | 58 | 41 | 22.32 | 3180 | 3.2 | | |
| | 67 | 36 | 19.35 | 3050 | 3.7 | | |
| | 72 | 33 | 18.08 | 2990 | 3.9 | | |
| | 83 | 29 | 15.63 | 2860 | 4.5 | | |
| | 98 | 24 | 13.28* | 2730 | 5.3 | | |
| | 110 | 22 | 11.86 | 2630 | 5.9 | | |
| | 128 | 19 | 10.13 | 2510 | 6.6 | | |
| | 138 | 17 | 9.41 | 2440 | 7.1 | | |
| | 159 | 15 | 8.16 | 2330 | 7.7 | | |
| | 170 | 14 | 7.63* | 2290 | 8.0 | | |
| | 197 | 12 | 6.59 | 2180 | 8.8 | | |
| | 232 | 10 | 5.60* | 2080 | 9.6 | | |
| | 260 | 9.2 | 5.00* | 2000 | 10 | | |
| 304 | 7.8 | 4.27 | 1910 | 11 | | | |
| 325 | 7.3 | 4.00* | 1870 | 12 | | | |
| 386 | 6.2 | 3.37 | 1770 | 13 | | | |
| 23 | 105 | 57.35 | 156 | 0.80 | TR 18 | MY 63L4 132 | |
| 24 | 99 | 53.76 | 785 | 0.85 | TRF 18 | MY 63L4 133 | |
| 27 | 87 | 47.44 | 1630 | 1.00 | | | |
| 29 | 81 | 44.18 | 2000 | 1.05 | | | |
| 34 | 71 | 38.61 | 2200 | 1.20 | | | |
| 36 | 67 | 36.20 | 2180 | 1.30 | | | |
| 41 | 59 | 31.94 | 2130 | 1.45 | | | |
| 46 | 52 | 28.32 | 2070 | 1.65 | | | |
| 54 | 44 | 24.07 | 2000 | 1.90 | | | |
| 52 | 46 | 25.23 | 2020 | 1.85 | TR 18 | MY 63L4 132 | |
| 56 | 43 | 23.15 | 1980 | 2.0 | TRF 18 | MY 63L4 133 | |

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| 0.25 | 66 | 36 | 19.71 | 1910 | 2.4 | TR 18 | MY 63L4 132 |
| | 77 | 31 | 16.99 | 1840 | 2.7 | TRF 18 | MY 63L4 133 |
| | 82 | 29 | 15.84 | 1810 | 2.9 | | |
| | 94 | 25 | 13.84 | 1750 | 3.4 | | |
| | 100 | 24 | 12.98 | 1720 | 3.6 | | |
| | 114 | 21 | 11.45 | 1660 | 3.9 | | |
| | 145 | 17 | 6.07 | 4890 | 2.6 | TRX 68 | MY 71D6 122 |
| | 170 | 14 | 5.18 | 4650 | 5.4 | TRXF 68 | MY 71D6 123 |
| | 194 | 12 | 4.53 | 4450 | 6.7 | | |
| | 205 | 12 | 4.30* | 4380 | 6.8 | | |
| | 214 | 11 | 6.07 | 4310 | 3.9 | TRX 68 | MY 63L4 122 |
| | 251 | 9.5 | 5.18 | 4100 | 7.9 | TRXF 68 | MY 63L4 123 |
| | 287 | 8.3 | 4.53 | 3920 | 9.9 | | |
| | 302 | 7.9 | 4.30* | 3860 | 10 | | |
| | 345 | 6.9 | 3.77 | 3700 | 13 | | |
| | 406 | 5.9 | 3.20* | 3500 | 17 | | |
| | 450 | 5.3 | 2.89 | 3390 | 20 | | |
| | 511 | 4.7 | 2.54 | 3250 | 25 | | |
| | 542 | 4.4 | 2.40* | 3190 | 28 | | |
| | 636 | 3.8 | 2.04 | 3020 | 35 | | |
| | 160 | 15 | 5.50* | 3840 | 2.6 | TRX 58 | MY 71D6 120 |
| | 174 | 14 | 5.07 | 3740 | 2.6 | TRXF 58 | MY 71D6 121 |
| | 202 | 12 | 4.35 | 3560 | 5.8 | | |
| | 232 | 10 | 3.79 | 3410 | 6.7 | | |
| | 236 | 10 | 5.50* | 3390 | 3.9 | TRX 58 | MY 63L4 120 |
| | 257 | 9.3 | 5.07 | 3300 | 3.9 | TRXF 58 | MY 63L4 121 |
| | 299 | 8.0 | 4.35 | 3150 | 8.5 | | |
| | 343 | 7.0 | 3.79 | 3010 | 9.9 | | |
| | 366 | 6.5 | 3.55* | 2950 | 11 | | |
| | 414 | 5.8 | 3.14 | 2830 | 11 | | |
| | 446 | 5.3 | 2.91 | 2760 | 13 | | |
| | 492 | 4.8 | 2.64* | 2680 | 14 | | |
| 548 | 4.4 | 2.37 | 2580 | 16 | | | |
| 637 | 3.7 | 2.04 | 2460 | 19 | | | |
| 677 | 3.5 | 1.92* | 2410 | 20 | | | |
| 787 | 3.0 | 1.65 | 2300 | 23 | | | |
| 0.37 | 0.19 | 15900 | 7307 | 37500 | 0.80 | TR 148 / TRF78 | MY 71D4 166 |
| | 0.21 | 14100 | 6447 | 60400 | 0.90 | TRF 148 / TRF78 | MY 71D4 166 |
| | 0.25 | 12100 | 5568 | 64300 | 1.05 | | |
| | 0.28 | 10900 | 4926 | 66400 | 1.20 | | |
| | 0.32 | 9480 | 4325 | 68500 | 1.35 | | |
| | 0.37 | 8310 | 3754 | 70000 | 1.55 | | |
| | 0.42 | 7240 | 3302 | 71100 | 1.80 | | |
| | 0.48 | 6320 | 2898 | 71900 | 2.1 | | |
| | 0.31 | 9740 | 4464 | 39400 | 0.80 | TR 138 / TRF78 | MY 71D4 166 |
| | 0.35 | 8570 | 3928 | 51500 | 0.95 | TRF 138 / TRF78 | MY 71D4 166 |
| | 0.34 | 9080 | 4018 | 49200 | 0.90 | TR 138 / TRF78 | MY 71D4 166 |
| | 0.39 | 7940 | 3514 | 53500 | 1.00 | TRF 138 / TRF78 | MY 71D4 166 |
| | 0.41 | 7540 | 3338 | 54300 | 1.05 | | |
| | 0.47 | 6620 | 2929 | 56000 | 1.20 | | |
| | 0.56 | 5600 | 2484 | 57600 | 1.45 | | |
| | 0.62 | 5030 | 2242 | 58400 | 1.60 | | |
| | 0.52 | 6000 | 2658 | 57000 | 1.35 | TR 138 / TRF78 | MY 71D4 166 |
| | 0.57 | 5440 | 2412 | 57800 | 1.45 | TRF 138 / TRF78 | MY 71D4 166 |
| | 0.67 | 4680 | 2073 | 58800 | 1.70 | | |
| | 0.75 | 4060 | 1839 | 59400 | 1.95 | | |
| | 0.99 | 3130 | 1397 | 60200 | 2.6 | | |
| | 1.1 | 2720 | 1226 | 60500 | 2.9 | | |
| 1.3 | 2440 | 1090 | 60700 | 3.3 | | | |
| 1.4 | 2130 | 951 | 60900 | 3.8 | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page | |
|------------------|------------------|------------------|-------|-----------------|----------------|--|---------|-----|
| 0.37 | 0.67 | 4660 | 2067 | 27300 | 0.90 | TR 108 / TRF78 | MY 71D4 | 166 |
| | 0.82 | 3790 | 1693 | 31900 | 1.15 | TRF 108 / TRF78 | MY 71D4 | 166 |
| | 0.89 | 3420 | 1550 | 33500 | 1.25 | | | |
| | 0.98 | 3110 | 1407 | 34600 | 1.40 | | | |
| | 1.1 | 2670 | 1209 | 35900 | 1.60 | | | |
| | 1.3 | 2330 | 1055 | 36400 | 1.85 | | | |
| | 0.69 | 4450 | 1987 | 28600 | 0.95 | TR 108 / TRF78 | MY 71D4 | 166 |
| | 0.76 | 4030 | 1827 | 30800 | 1.05 | TRF 108 / TRF78 | MY 71D4 | 166 |
| | 0.86 | 3490 | 1599 | 33200 | 1.25 | | | |
| | 0.99 | 3090 | 1400 | 34600 | 1.40 | | | |
| | 1.1 | 2670 | 1226 | 35900 | 1.60 | | | |
| | 1.5 | 2070 | 939 | 36700 | 2.1 | | | |
| | 1.7 | 1790 | 822 | 37000 | 2.4 | | | |
| | 1.1 | 2760 | 1207 | 22500 | 1.10 | TR 98 / TRF58 | MY 71D4 | 166 |
| | 1.3 | 2470 | 1084 | 24300 | 1.20 | TRF 98 / TRF58 | MY 71D4 | 166 |
| | 1 | 3180 | 1396 | 10800 | 0.95 | TR 98 / TRF58 | MY 71D4 | 166 |
| | 1.1 | 2780 | 1228 | 22500 | 1.10 | TRF 98 / TRF58 | MY 71D4 | 166 |
| | 1.3 | 2480 | 1069 | 24200 | 1.20 | | | |
| | 1.5 | 2160 | 938 | 25700 | 1.40 | | | |
| | 1.7 | 1860 | 824 | 26900 | 1.60 | | | |
| | 1.9 | 1670 | 737 | 27400 | 1.80 | | | |
| | 2.2 | 1430 | 632 | 27700 | 2.1 | | | |
| | 3.2 | 980 | 431 | 28200 | 3.1 | | | |
| | 3.6 | 860 | 379 | 28300 | 3.5 | | | |
| | 4.1 | 765 | 336 | 28400 | 3.9 | | | |
| | 1.7 | 1810 | 802 | 13800 | 0.85 | TR 88 / TRF58 | MY 71D4 | 166 |
| | 1.8 | 1700 | 754 | 15800 | 0.90 | TRF 88 / TRF58 | MY 71D4 | 166 |
| | 2.1 | 1450 | 649 | 17600 | 1.05 | | | |
| | 1.8 | 1780 | 776 | 15100 | 0.85 | TR 88 / TRF58 | MY 71D4 | 166 |
| | 2.0 | 1570 | 685 | 16800 | 1.00 | TRF 88 / TRF58 | MY 71D4 | 166 |
| | 2.3 | 1340 | 599 | 18300 | 1.15 | | | |
| | 2.6 | 1170 | 525 | 19100 | 1.30 | | | |
| | 3.0 | 1030 | 456 | 19700 | 1.50 | | | |
| | 5.2 | 595 | 268 | 20000 | 2.6 | | | |
| | 5.9 | 525 | 236 | 20000 | 2.9 | | | |
| | 2.6 | 1260 | 538 | 18700 | 1.25 | TR 88 / TRF58 | MY 71D4 | 166 |
| | 2.9 | 1100 | 472 | 19400 | 1.40 | TRF 88 / TRF58 | MY 71D4 | 166 |
| | 3.5 | 930 | 400 | 20000 | 1.65 | | | |
| | 3.8 | 830 | 361 | 20000 | 1.85 | | | |
| | 3.7 | 860 | 373 | 9520 | 0.95 | TR 78 / TRF38 | MY 71D4 | 166 |
| | 4.2 | 755 | 327 | 10500 | 1.10 | TRF 78 / TRF38 | MY 71D4 | 166 |
| | 4.8 | 670 | 289 | 11100 | 1.20 | | | |
| | 5.3 | 600 | 260 | 11600 | 1.35 | | | |
| | 6.2 | 510 | 224 | 12000 | 1.60 | | | |
| | 7.0 | 445 | 197 | 12300 | 1.85 | | | |
| 8.2 | 390 | 169 | 12500 | 2.1 | | | | |
| 9.3 | 340 | 149 | 12700 | 2.4 | | | | |
| 4.7 | 665 | 294 | 4670 | 0.90 | TR 68 / TRF38 | MY 71D4 | 166 | |
| 5.3 | 600 | 261 | 7550 | 1.00 | TRF 68 / TRF38 | MY 71D4 | 166 | |
| 5.9 | 540 | 234 | 8220 | 1.10 | | | | |
| 6.9 | 460 | 200 | 8930 | 1.30 | | | | |
| 2.7 | 1330 | 255.71 | 27900 | 2.3 | TR 98 | MY 90S8 | 156 | |
| 2.8 | 1250 | 241.25 | 28000 | 2.4 | TRF 98 | MY 90S8 | 157 | |
| 3.1 | 1120 | 216.28 | 28100 | 2.7 | | | | |
| 3.6 | 970 | 186.30 | 28300 | 3.1 | | | | |
| 3.1 | 1140 | 289.74 | 28100 | 2.6 | TR 98 | MY 80K6 | 156 | |
| 3.5 | 1000 | 255.71 | 28200 | 3.0 | TRF 98 | MY 80K6 | 157 | |
| 3.7 | 950 | 241.25 | 28300 | 3.2 | | | | |
| 4.2 | 850 | 216.28 | 28400 | 3.5 | | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | | | | Page |
|------------------|------------------|------------------|---------|-----------------|-------|--|---------|---------|-----|------|
| 0.37 | 3.1 | 1130 | 216.54 | 19300 | 1.40 | TR | 88 | MY 90S8 | | 153 |
| | 3.3 | 1070 | 205.71 | 19600 | 1.45 | TRF | 88 | MY 90S8 | | 154 |
| | 3.7 | 940 | 181.77 | 20000 | 1.65 | | | | | |
| | 3.6 | 970 | 246.54 | 20000 | 1.60 | TR | 88 | MY 80K6 | | 153 |
| | 4.2 | 850 | 216.54 | 20000 | 1.80 | TRF | 88 | MY 80K6 | | 154 |
| | 4.4 | 810 | 205.71 | 20000 | 1.90 | | | | | |
| | 5.0 | 715 | 181.77 | 20000 | 2.2 | | | | | |
| | 5.8 | 610 | 155.34 | 20000 | 2.5 | | | | | |
| | 6.3 | 560 | 142.41 | 20000 | 2.8 | | | | | |
| | 4.7 | 755 | 145.67 | 10500 | 1.10 | TR | 78 | MY 90S8 | | 150 |
| | 4.9 | 720 | 138.39 | 10800 | 1.15 | TRF | 78 | MY 90S8 | | 151 |
| | 5.6 | 630 | 121.42 | 11400 | 1.30 | | | | | |
| | 5.4 | 655 | 166.59 | 11200 | 1.25 | TR | 78 | MY 80K6 | | 150 |
| | 6.2 | 570 | 145.67 | 11700 | 1.45 | TRF | 78 | MY 80K6 | | 151 |
| | 6.5 | 545 | 138.39 | 11900 | 1.50 | | | | | |
| | 7.1 | 500 | 195.24* | 12100 | 1.65 | TR | 78 | MY 71D4 | | 150 |
| | 8.3 | 425 | 166.59 | 12400 | 1.90 | TRF | 78 | MY 71D4 | | 151 |
| | 9.5 | 375 | 145.67 | 12600 | 2.2 | | | | | |
| | 10 | 355 | 138.39 | 12600 | 2.3 | | | | | |
| | 11 | 310 | 121.42 | 12800 | 2.6 | | | | | |
| | 13 | 265 | 102.99 | 12900 | 3.1 | | | | | |
| | 15 | 240 | 92.97 | 12900 | 3.5 | | | | | |
| | 5.7 | 620 | 158.14 | 7300 | 0.95 | TR | 68 | MY 80K6 | | 147 |
| | 6.5 | 540 | 137.67 | 8210 | 1.10 | TRF | 68 | MY 80K6 | | 148 |
| | 7.0 | 505 | 128.97 | 8530 | 1.20 | | | | | |
| | 7.9 | 445 | 113.94 | 9010 | 1.35 | | | | | |
| | 6.9 | 510 | 199.81 | 8480 | 1.15 | TR | 68 | MY 71D4 | | 147 |
| | 7.5 | 470 | 184.07 | 8820 | 1.25 | TRF | 68 | MY 71D4 | | 148 |
| | 8.7 | 405 | 158.14 | 9310 | 1.50 | | | | | |
| | 10 | 355 | 137.67 | 9620 | 1.70 | | | | | |
| | 11 | 330 | 128.97 | 9740 | 1.80 | | | | | |
| | 12 | 290 | 113.94 | 9920 | 2.1 | | | | | |
| | 13 | 270 | 105.83 | 10000 | 2.2 | | | | | |
| | 14 | 245 | 95.91 | 10100 | 2.4 | | | | | |
| | 16 | 220 | 86.11 | 10200 | 2.7 | | | | | |
| | 19 | 190 | 74.17 | 10300 | 3.2 | | | | | |
| | 20 | 179 | 69.75 | 10300 | 3.4 | | | | | |
| | 23 | 157 | 61.26 | 10400 | 3.8 | | | | | |
| | 24 | 146 | 56.89 | 10400 | 4.1 | | | | | |
| | 7.0 | 505 | 128.77 | 6510 | 0.90 | TR | 58 | MY 80K6 | | 144 |
| | 7.5 | 475 | 120.63 | 7000 | 0.95 | TRF | 58 | MY 80K6 | | 145 |
| | 8.4 | 420 | 106.58 | 7240 | 1.10 | | | | | |
| 9.1 | 390 | 98.99 | 7350 | 1.15 | | | | | | |
| 7.4 | 480 | 186.89 | 6980 | 0.95 | TR | 58 | MY 71D4 | | 144 | |
| 8.0 | 440 | 172.17 | 7140 | 1.00 | TRF | 58 | MY 71D4 | | 145 | |
| 9.3 | 380 | 147.92 | 7390 | 1.20 | | | | | | |
| 11 | 330 | 128.77 | 7550 | 1.35 | | | | | | |
| 11 | 310 | 120.63 | 7610 | 1.45 | | | | | | |
| 13 | 275 | 106.58 | 7700 | 1.65 | | | | | | |
| 14 | 255 | 98.99 | 7750 | 1.80 | | | | | | |
| 15 | 230 | 89.71 | 7800 | 1.95 | | | | | | |
| 17 | 205 | 80.55 | 7840 | 2.2 | | | | | | |
| 20 | 177 | 69.23 | 7890 | 2.5 | | | | | | |
| 21 | 166 | 64.85 | 7910 | 2.7 | | | | | | |
| 24 | 147 | 57.29 | 7760 | 3.1 | | | | | | |
| 26 | 136 | 53.22 | 7600 | 3.3 | | | | | | |
| 29 | 124 | 48.23 | 7380 | 3.6 | | | | | | |
| 10 | 360 | 139.99 | 3490 | 0.85 | TR | 48 | MY 71D4 | | 141 | |
| 11 | 310 | 121.87 | 5350 | 0.95 | TRF | 48 | MY 71D4 | | 142 | |
| 12 | 290 | 114.17 | 5460 | 1.05 | | | | | | |

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| 0.37 | 14 | 260 | 100.86 | 5630 | 1.15 | TR 48 | MY 71D4 141 |
| | 15 | 240 | 93.68 | 5700 | 1.25 | TRF 48 | MY 71D4 142 |
| | 16 | 215 | 84.90 | 5790 | 1.40 | | |
| | 18 | 195 | 76.23 | 5870 | 1.55 | | |
| | 20 | 176 | 68.54 | 5930 | 1.70 | | |
| | 21 | 164 | 64.21 | 5960 | 1.80 | | |
| | 24 | 145 | 56.73 | 6010 | 2.1 | | |
| | 26 | 135 | 52.69 | 5990 | 2.2 | | |
| | 29 | 122 | 47.75 | 5820 | 2.5 | | |
| | 32 | 110 | 42.87 | 5650 | 2.7 | | |
| | 37 | 95 | 36.93 | 5410 | 3.2 | | |
| | 40 | 89 | 34.73 | 5310 | 3.4 | | |
| | 41 | 87 | 33.79 | 5270 | 2.8 | TR 48 | MY 71D4 141 |
| | 44 | 80 | 31.12 | 5150 | 2.8 | TRF 48 | MY 71D4 142 |
| | 52 | 69 | 26.74 | 4920 | 4.4 | | |
| | 59 | 60 | 23.28 | 4720 | 5.0 | | |
| | 63 | 56 | 21.81 | 4620 | 5.4 | | |
| | 15 | 230 | 90.77 | 4250 | 0.85 | TR 38 | MY 71D4 138 |
| | 16 | 215 | 84.61 | 4720 | 0.90 | TRF 38 | MY 71D4 139 |
| | 19 | 189 | 73.96 | 5070 | 1.05 | | |
| | 20 | 178 | 69.33 | 5210 | 1.15 | TR 38 | MY 71D4 138 |
| | 23 | 157 | 61.18 | 5410 | 1.30 | TRF 38 | MY 71D4 139 |
| | 25 | 143 | 55.76 | 5530 | 1.40 | | |
| | 29 | 123 | 48.08 | 5590 | 1.60 | | |
| | 31 | 115 | 44.81 | 5480 | 1.75 | | |
| | 35 | 100 | 39.17 | 5290 | 2.0 | | |
| | 38 | 94 | 36.72 | 5190 | 2.1 | | |
| | 43 | 83 | 32.40 | 5010 | 2.4 | | |
| | 48 | 74 | 28.73 | 4850 | 2.7 | | |
| | 57 | 63 | 24.42 | 4620 | 3.2 | | |
| | 49 | 73 | 28.32 | 4830 | 2.8 | TR 38 | MY 71D4 138 |
| | 53 | 67 | 26.03 | 4710 | 2.8 | TRF 38 | MY 71D4 139 |
| | 62 | 57 | 22.27 | 4500 | 3.5 | | |
| | 71 | 49 | 19.31 | 4320 | 4.1 | | |
| | 76 | 46 | 18.05 | 4230 | 4.3 | | |
| | 88 | 40 | 15.60 | 4050 | 5.0 | | |
| | 104 | 34 | 13.25 | 3850 | 5.6 | | |
| | 117 | 30 | 11.83 | 3720 | 6.0 | | |
| | 23 | 157 | 61.30 | 3870 | 0.85 | TR 28 | MY 71D4 135 |
| | 25 | 143 | 55.87 | 3800 | 0.90 | TRF 28 | MY 71D4 136 |
| | 29 | 123 | 48.17 | 3680 | 1.05 | | |
| | 31 | 115 | 44.90 | 3620 | 1.15 | | |
| | 35 | 101 | 39.25 | 3510 | 1.30 | | |
| | 38 | 94 | 36.79 | 3460 | 1.40 | | |
| | 43 | 83 | 32.47 | 3350 | 1.55 | | |
| | 48 | 74 | 28.78 | 3250 | 1.75 | | |
| | 56 | 63 | 24.47 | 3110 | 2.10 | | |
| | 49 | 73 | 28.37 | 3240 | 1.80 | TR 28 | MY 71D4 135 |
| | 53 | 67 | 26.09 | 3170 | 1.95 | TRF 28 | MY 71D4 136 |
| | 62 | 57 | 22.32 | 3040 | 2.3 | | |
| | 71 | 50 | 19.35 | 2920 | 2.6 | | |
| | 76 | 46 | 18.08 | 2860 | 2.8 | | |
| 88 | 40 | 15.63 | 2750 | 3.3 | | | |
| 104 | 34 | 13.28* | 2620 | 3.8 | | | |
| 36 | 99 | 38.61 | 770 | 0.85 | TR 18 | MY 71D4 132 | |
| 38 | 93 | 36.20 | 1260 | 0.90 | TRF 18 | MY 71D4 133 | |
| 43 | 82 | 31.94 | 1910 | 1.05 | | | |
| 49 | 73 | 28.32 | 1880 | 1.15 | | | |
| 57 | 62 | 24.07 | 1830 | 1.40 | | | |

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| 0.37 | 55 | 65 | 25.23 | 1840 | 1.30 | TR 18 | MY 71D4 | 132 |
| | 60 | 59 | 23.15 | 1820 | 1.45 | TRF 18 | MY 71D4 | 133 |
| | 70 | 51 | 19.71 | 1760 | 1.70 | | | |
| | 81 | 44 | 16.99 | 1710 | 1.95 | | | |
| | 87 | 41 | 15.84 | 1680 | 2.1 | | | |
| | 100 | 35 | 13.84 | 1630 | 2.4 | | | |
| | 106 | 33 | 12.98 | 1610 | 2.6 | | | |
| | 121 | 29 | 11.45 | 1560 | 2.8 | | | |
| | 136 | 26 | 10.15 | 1520 | 3.0 | | | |
| | 160 | 22 | 8.63 | 1460 | 3.3 | | | |
| | 183 | 19 | 7.55 | 1370 | 2.9 | | | |
| | 196 | 18 | 7.04 | 1350 | 3.1 | | | |
| | 224 | 16 | 6.15 | 1300 | 3.4 | | | |
| | 239 | 15 | 5.76 | 1280 | 3.6 | | | |
| | 271 | 13 | 5.09 | 1240 | 3.9 | | | |
| | 306 | 12 | 4.51 | 1200 | 4.2 | | | |
| | 360 | 9.8 | 3.83 | 1150 | 4.6 | | | |
| | 174 | 20 | 5.18 | 4570 | 3.7 | TRX 68 | MY 80K6 | 122 |
| | 199 | 18 | 4.53 | 4380 | 4.6 | TRXF 68 | MY 80K6 | 123 |
| | 209 | 17 | 4.30* | 4310 | 4.7 | | | |
| | 239 | 15 | 3.77 | 4130 | 5.9 | | | |
| | 227 | 16 | 6.07 | 4200 | 2.8 | TRX 68 | MY 71D4 | 122 |
| | 267 | 13 | 5.18 | 3990 | 5.6 | TRXF 68 | MY 71D4 | 123 |
| | 305 | 12 | 4.53 | 3820 | 7.1 | | | |
| | 321 | 11 | 4.30* | 3760 | 7.3 | | | |
| | 366 | 9.7 | 3.77 | 3610 | 9.0 | | | |
| | 431 | 8.2 | 3.20* | 3420 | 12 | | | |
| | 478 | 7.4 | 2.89 | 3310 | 14 | | | |
| | 543 | 6.5 | 2.54 | 3170 | 18 | | | |
| | 575 | 6.1 | 2.40* | 3110 | 20 | | | |
| | 675 | 5.2 | 2.04 | 2950 | 26 | | | |
| | 207 | 17 | 4.35 | 3500 | 4.0 | TRX 58 | MY 80K6 | 120 |
| | 238 | 15 | 3.79 | 3350 | 4.6 | TRXF 58 | MY 80K6 | 121 |
| | 254 | 14 | 3.55* | 3280 | 5.0 | | | |
| | 251 | 14 | 5.50* | 3300 | 2.8 | TRX 58 | MY 71D4 | 120 |
| | 272 | 13 | 5.07 | 3210 | 2.8 | TRXF 58 | MY 71D4 | 121 |
| 317 | 11 | 4.35 | 3060 | 6.1 | | | | |
| 364 | 9.7 | 3.79 | 2930 | 7.1 | | | | |
| 389 | 9.1 | 3.55* | 2870 | 7.6 | | | | |
| 440 | 8.0 | 3.14 | 2760 | 8.1 | | | | |
| 474 | 7.5 | 2.91 | 2690 | 8.9 | | | | |
| 523 | 6.8 | 2.64* | 2610 | 10 | | | | |
| 582 | 6.1 | 2.37 | 2520 | 11 | | | | |
| 676 | 5.2 | 2.04 | 2400 | 13 | | | | |
| 719 | 4.9 | 1.92* | 2350 | 14 | | | | |
| 835 | 4.2 | 1.65 | 2240 | 16 | | | | |
| 0.55 | 0.22 | 19800 | 6077 | 120000 | 0.90 | TR 168 / TRF98 | MY 80K4 | 166 |
| | 0.25 | 17600 | 5407 | 120000 | 1.00 | TRF 168 / TRF98 | MY 80K4 | 166 |
| | 0.29 | 15000 | 4650 | 120000 | 1.20 | | | |
| | 0.33 | 13100 | 4129 | 120000 | 1.35 | | | |
| | 0.28 | 16900 | 4926 | 22000 | 0.75 | TR 148 / TRF78 | MY 80K4 | 166 |
| | 0.31 | 14700 | 4325 | 53900 | 0.90 | TRF 148 / TRF78 | MY 80K4 | 166 |
| | 0.36 | 12900 | 3754 | 62900 | 1.00 | | | |
| | 0.41 | 11200 | 3302 | 65900 | 1.15 | | | |
| | 0.47 | 9830 | 2898 | 68000 | 1.30 | | | |
| | 0.53 | 8890 | 2555 | 69300 | 1.45 | TR 148 / TRF78 | MY 80K4 | 166 |
| | 0.62 | 7700 | 2211 | 70600 | 1.70 | TRF 148 / TRF78 | MY 80K4 | 166 |
| | 0.70 | 6790 | 1951 | 71500 | 1.90 | | | |
| | 0.80 | 5810 | 1705 | 72400 | 2.2 | | | |
| | 0.89 | 5210 | 1536 | 72800 | 2.5 | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
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| 0.55 | 1.00 | 4510 | 1329 | 73300 | 2.9 | TR 148 / TRF78 | MY 80K4 166 |
| | 1.20 | 3920 | 1166 | 73600 | 3.3 | TRF 148 / TRF78 | MY 80K4 166 |
| | 0.55 | 8650 | 2484 | 51200 | 0.90 | TR 138 / TRF78 | MY 80K4 166 |
| | | | | | | TRF 138 / TRF78 | MY 80K4 166 |
| | 0.51 | 9250 | 2658 | 48400 | 0.85 | TR 138 / TRF78 | MY 80K4 166 |
| | 0.56 | 8400 | 2412 | 52300 | 0.95 | TRF 138 / TRF78 | MY 80K4 166 |
| | 0.66 | 7220 | 2073 | 55000 | 1.10 | | |
| | 0.74 | 6320 | 1839 | 56500 | 1.25 | | |
| | 0.85 | 5420 | 1598 | 57900 | 1.50 | | |
| | 0.97 | 4840 | 1397 | 58600 | 1.65 | | |
| | 1.1 | 4220 | 1226 | 59300 | 1.90 | | |
| | 1.2 | 3780 | 1090 | 59700 | 2.1 | | |
| | 1.4 | 3300 | 951 | 60100 | 2.4 | | |
| | 1.6 | 2820 | 831 | 60500 | 2.8 | | |
| | 1 | 4830 | 1407 | 21900 | 0.90 | TR 108 / TRF78 | MY 80K4 166 |
| | 1.1 | 4150 | 1209 | 30200 | 1.05 | TRF 108 / TRF78 | MY 80K4 166 |
| | 1.3 | 3620 | 1055 | 32700 | 1.20 | | |
| | 1.5 | 3170 | 919 | 34400 | 1.35 | | |
| | 1.7 | 2830 | 815 | 35500 | 1.50 | | |
| | 1.9 | 2470 | 717 | 36200 | 1.75 | | |
| | 2.2 | 2160 | 626 | 36600 | 2.0 | | |
| | 1.0 | 4810 | 1400 | 22800 | 0.90 | TR 108 / TRF78 | MY 80K4 166 |
| | 1.1 | 4180 | 1226 | 30100 | 1.05 | TRF 108 / TRF78 | MY 80K4 166 |
| | 1.2 | 3740 | 1104 | 32200 | 1.15 | | |
| | 1.4 | 3220 | 939 | 34200 | 1.35 | | |
| | 1.7 | 2800 | 822 | 35600 | 1.55 | | |
| | 1.7 | 2870 | 824 | 21800 | 1.05 | TR 98 / TRF58 | MY 80K4 166 |
| | 1.8 | 2570 | 737 | 23700 | 1.15 | TRF 98 / TRF58 | MY 80K4 166 |
| | 2.1 | 2200 | 632 | 25500 | 1.35 | | |
| | 2.4 | 1920 | 560 | 26700 | 1.55 | | |
| | 2.8 | 1670 | 484 | 27400 | 1.80 | | |
| | 3.1 | 1510 | 431 | 27600 | 2.0 | | |
| | 3.6 | 1320 | 379 | 27900 | 2.3 | | |
| | 4.0 | 1180 | 336 | 28000 | 2.6 | | |
| | 4.6 | 1030 | 296 | 28200 | 2.9 | | |
| | 5.5 | 860 | 249 | 28300 | 3.5 | | |
| | 2.6 | 1820 | 525 | 13600 | 0.85 | TR 88 / TRF58 | MY 80K4 166 |
| | 3.0 | 1580 | 456 | 16700 | 1.00 | TRF 88 / TRF58 | MY 80K4 166 |
| | 3.4 | 1370 | 398 | 18100 | 1.15 | | |
| | 3.9 | 1210 | 352 | 18900 | 1.30 | | |
| | 4.5 | 1040 | 305 | 19700 | 1.50 | | |
| | 2.9 | 1690 | 472 | 15900 | 0.90 | TR 88 / TRF58 | MY 80K4 166 |
| | 3.4 | 1420 | 400 | 17800 | 1.10 | TRF 88 / TRF58 | MY 80K4 166 |
| | 3.8 | 1280 | 361 | 18600 | 1.20 | | |
| | 4.9 | 990 | 276 | 4510 | 0.85 | TR 78 / TRF38 | MY 80K4 166 |
| | 5.8 | 840 | 236 | 9730 | 1.00 | TRF 78 / TRF38 | MY 80K4 166 |
| | 6.2 | 785 | 221 | 10200 | 1.05 | | |
| | 7.3 | 660 | 186 | 11200 | 1.25 | | |
| 2.7 | 1980 | 255.71 | 26500 | 1.50 | TR 98 | MY 90L8 156 | |
| 2.8 | 1860 | 241.25 | 26900 | 1.60 | TRF 98 | MY 90L8 157 | |
| 3.1 | 1670 | 216.28 | 27400 | 1.80 | | | |
| 3.1 | 1690 | 289.74 | 27400 | 1.75 | TR 98 | MY 80N6 156 | |
| 3.5 | 1490 | 255.71 | 27700 | 2.0 | TRF 98 | MY 80N6 157 | |
| 3.7 | 1410 | 241.25 | 27800 | 2.1 | | | |
| 4.2 | 1260 | 216.28 | 28000 | 2.4 | | | |
| 4.7 | 1120 | 289.74 | 28100 | 2.7 | TR 98 | MY 80K4 156 | |
| 5.3 | 990 | 255.71 | 28200 | 3.0 | TRF 98 | MY 80K4 157 | |
| 5.6 | 930 | 241.25 | 28300 | 3.2 | | | |
| 6.3 | 840 | 216.28 | 28400 | 3.6 | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | | | Page |
|------------------|------------------|------------------|---------|-----------------|-------|--|---------|---------|------|
| 0.55 | 3.6 | 1440 | 246.54 | 17700 | 1.10 | TR | 88 | MY 80N6 | 153 |
| | 4.2 | 1260 | 216.54 | 18700 | 1.25 | TRF | 88 | MY 80N6 | 154 |
| | 4.4 | 1200 | 205.71 | 19000 | 1.30 | | | | |
| | 5.0 | 1060 | 181.77 | 19600 | 1.45 | | | | |
| | 5.8 | 910 | 155.34 | 20000 | 1.70 | | | | |
| | 5.5 | 950 | 246.54 | 20000 | 1.65 | TR | 88 | MY 80K4 | 153 |
| | 6.3 | 840 | 216.54 | 20000 | 1.85 | TRF | 88 | MY 80K4 | 154 |
| | 6.6 | 795 | 205.71 | 20000 | 1.95 | | | | |
| | 7.5 | 700 | 181.77 | 20000 | 2.2 | | | | |
| | 8.8 | 600 | 155.34 | 20000 | 2.6 | | | | |
| | 9.6 | 550 | 142.41 | 20000 | 2.8 | | | | |
| | 11 | 485 | 124.97 | 20000 | 3.2 | | | | |
| | 11 | 455 | 118.43* | 20000 | 3.4 | | | | |
| | 13 | 400 | 103.65 | 20000 | 3.9 | | | | |
| | 8.2 | 645 | 166.59 | 11300 | 1.25 | TR | 78 | MY 80K4 | 150 |
| | 9.3 | 565 | 145.67 | 11800 | 1.45 | TRF | 78 | MY 80K4 | 151 |
| | 9.8 | 535 | 138.39 | 11900 | 1.55 | | | | |
| | 11 | 470 | 121.42 | 12200 | 1.75 | | | | |
| | 13 | 400 | 102.99 | 12500 | 2.1 | | | | |
| | 15 | 360 | 92.97 | 12600 | 2.3 | | | | |
| | 17 | 315 | 81.80 | 12800 | 2.6 | | | | |
| | 18 | 300 | 77.24 | 12800 | 2.8 | | | | |
| | 21 | 255 | 65.77 | 12900 | 3.2 | | | | |
| | 8.6 | 610 | 158.14 | 7430 | 1.00 | TR | 68 | MY 80K4 | 147 |
| | 9.9 | 530 | 137.67 | 8290 | 1.15 | TRF | 68 | MY 80K4 | 148 |
| | 11 | 500 | 128.97 | 8600 | 1.20 | | | | |
| | 12 | 440 | 113.94 | 9060 | 1.35 | | | | |
| | 13 | 410 | 105.83 | 9280 | 1.45 | | | | |
| | 14 | 370 | 95.91 | 9520 | 1.60 | | | | |
| | 16 | 335 | 86.11 | 9730 | 1.80 | | | | |
| | 18 | 285 | 74.17 | 9940 | 2.1 | | | | |
| | 20 | 270 | 69.75 | 10000 | 2.2 | | | | |
| 22 | 235 | 61.26 | 10100 | 2.5 | | | | | |
| 24 | 220 | 56.89 | 10200 | 2.7 | | | | | |
| 11 | 465 | 120.63 | 7030 | 0.95 | TR | 58 | MY 80K4 | 144 | |
| 13 | 410 | 106.58 | 7260 | 1.10 | TRF | 58 | MY 80K4 | 145 | |
| 14 | 380 | 98.99 | 7370 | 1.20 | | | | | |
| 15 | 345 | 89.71 | 7490 | 1.30 | | | | | |
| 17 | 310 | 80.55 | 7600 | 1.45 | | | | | |
| 20 | 265 | 69.23 | 7710 | 1.70 | | | | | |
| 21 | 250 | 64.85 | 7750 | 1.80 | | | | | |
| 24 | 220 | 57.29 | 7530 | 2.0 | | | | | |
| 26 | 205 | 53.22 | 7390 | 2.2 | | | | | |
| 28 | 186 | 48.23 | 7190 | 2.4 | | | | | |
| 31 | 167 | 43.30 | 6980 | 2.7 | | | | | |
| 36 | 144 | 37.30* | 6700 | 3.1 | | | | | |
| 39 | 136 | 35.07 | 6580 | 3.3 | | | | | |
| 52 | 102 | 26.31 | 6060 | 4.4 | TR | 58 | MY 80K4 | 144 | |
| 54 | 97 | 24.99* | 5970 | 4.7 | TRF | 58 | MY 80K4 | 145 | |
| 62 | 85 | 21.93 | 5740 | 5.3 | | | | | |
| 73 | 72 | 18.60* | 5460 | 6.3 | | | | | |
| 15 | 360 | 93.68 | 3280 | 0.85 | TR | 48 | MY 80K4 | 141 | |
| 16 | 330 | 84.90 | 5230 | 0.90 | TRF | 48 | MY 80K4 | 142 | |
| 18 | 295 | 76.23 | 5450 | 1.00 | | | | | |
| 20 | 265 | 68.54 | 5600 | 1.15 | | | | | |
| 21 | 250 | 64.21 | 5670 | 1.20 | | | | | |
| 24 | 220 | 56.73 | 5790 | 1.35 | | | | | |
| 26 | 205 | 52.69 | 5770 | 1.45 | | | | | |
| 28 | 184 | 47.75 | 5630 | 1.65 | | | | | |
| 32 | 166 | 42.87 | 5470 | 1.80 | | | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
|------------------|------------------|------------------|--------|-----------------|--------|--|-------------|
| 0.55 | 37 | 143 | 36.93 | 5260 | 2.1 | TR 48 | MY 80K4 141 |
| | 39 | 134 | 34.73 | 5180 | 2.2 | TRF 48 | MY 80K4 142 |
| | 46 | 115 | 29.88 | 4970 | 2.6 | | |
| | 51 | 103 | 26.74 | 4820 | 2.9 | TR 48 | MY 80K4 141 |
| | 58 | 90 | 23.28 | 4630 | 3.3 | TRF 48 | MY 80K4 142 |
| | 62 | 84 | 21.81 | 4550 | 3.6 | | |
| | 22 | 235 | 61.18 | 3910 | 0.85 | TR 38 | MY 80K4 138 |
| | 24 | 215 | 55.76 | 4740 | 0.95 | TRF 38 | MY 80K4 139 |
| | 28 | 186 | 48.08 | 5120 | 1.10 | | |
| | 30 | 173 | 44.81 | 5230 | 1.15 | | |
| | 35 | 151 | 39.17 | 5070 | 1.30 | | |
| | 37 | 142 | 36.72 | 4990 | 1.40 | | |
| | 42 | 125 | 32.40 | 4840 | 1.60 | | |
| | 47 | 111 | 28.73 | 4700 | 1.80 | | |
| | 56 | 94 | 24.42 | 4500 | 2.1 | | |
| | 61 | 86 | 22.27 | 4390 | 2.3 | TR 38 | MY 80K4 138 |
| | 70 | 75 | 19.31 | 4220 | 2.7 | TRF 38 | MY 80K4 139 |
| | 75 | 70 | 18.05 | 4140 | 2.9 | | |
| | 87 | 60 | 15.60 | 3970 | 3.3 | | |
| | 103 | 51 | 13.25 | 3790 | 3.7 | | |
| | 115 | 46 | 11.83 | 3670 | 4.0 | | |
| | 35 | 152 | 39.25 | 3280 | 0.85 | TR 28 | MY 80K4 135 |
| | 37 | 142 | 36.79 | 3240 | 0.90 | TRF 28 | MY 80K4 136 |
| | 42 | 125 | 32.47 | 3160 | 1.05 | | |
| | 47 | 111 | 28.78 | 3080 | 1.15 | | |
| | 56 | 95 | 24.47 | 2970 | 1.40 | | |
| | 61 | 86 | 22.32 | 2910 | 1.50 | TR 28 | MY 80K4 135 |
| | 70 | 75 | 19.35 | 2810 | 1.75 | TRF 28 | MY 80K4 136 |
| | 75 | 70 | 18.08 | 2760 | 1.85 | | |
| | 87 | 60 | 15.63 | 2660 | 2.2 | | |
| | 102 | 51 | 13.28* | 2550 | 2.5 | | |
| | 115 | 46 | 11.86 | 2470 | 2.8 | | |
| | 134 | 39 | 10.13 | 2370 | 3.1 | | |
| | 145 | 36 | 9.41 | 2290 | 3.4 | | |
| | 167 | 32 | 8.16 | 2200 | 3.7 | | |
| | 178 | 29 | 7.63* | 2160 | 3.8 | | |
| | 206 | 26 | 6.59 | 2070 | 4.2 | | |
| | 243 | 22 | 5.60* | 1980 | 4.6 | | |
| | 272 | 19 | 5.00* | 1910 | 4.9 | | |
| | 318 | 17 | 4.27 | 1830 | 5.3 | | |
| | 340 | 15 | 4.00* | 1790 | 5.5 | | |
| | 404 | 13 | 3.37 | 1700 | 6.1 | | |
| | 50 | 105 | 53.76 | 235 | 0.80 | TR 18 | MY 80K4 132 |
| | 57 | 92 | 47.44 | 1280 | 0.90 | TRF 18 | MY 80K4 133 |
| | 61 | 86 | 44.18 | 1610 | 1.00 | | |
| | 70 | 75 | 38.61 | 1590 | 1.15 | | |
| 69 | 76 | 19.71 | 1590 | 1.10 | TR 18 | MY 80K4 132 | |
| 80 | 66 | 16.99 | 1560 | 1.30 | TRF 18 | MY 80K4 133 | |
| 86 | 61 | 15.84 | 1550 | 1.40 | | | |
| 98 | 54 | 13.84 | 1510 | 1.60 | | | |
| 105 | 50 | 12.98 | 1500 | 1.70 | | | |
| 119 | 44 | 11.45 | 1460 | 1.85 | | | |
| 134 | 39 | 10.15 | 1430 | 1.95 | | | |
| 158 | 33 | 8.63 | 1380 | 2.2 | | | |
| 180 | 29 | 7.55 | 1290 | 1.9 | | | |
| 193 | 27 | 7.04 | 1270 | 2.0 | | | |
| 221 | 24 | 6.15 | 1240 | 2.3 | | | |
| 236 | 22 | 5.76 | 1220 | 2.4 | | | |
| 267 | 20 | 5.09 | 1190 | 2.6 | | | |
| 302 | 17 | 4.51 | 1150 | 2.8 | | | |
| 355 | 15 | 3.83 | 1110 | 3.0 | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | | | Page |
|------------------|------------------|------------------|-------|-----------------|-------|--|-------------|---------|------|
| 0.55 | 313 | 17 | 8.63 | 1170 | 4.3 | TR | 18 | MY 80K4 | 132 |
| | 358 | 15 | 7.55 | 1100 | 3.8 | TRF | 18 | MY 80K4 | 133 |
| | 384 | 14 | 7.04 | 1080 | 4.0 | | | | |
| | 439 | 12 | 6.15 | 1050 | 4.5 | | | | |
| | 174 | 30 | 5.18 | 4510 | 2.5 | TRX | 68 | MY 80N6 | 122 |
| | 199 | 26 | 4.53 | 4320 | 3.1 | TRXF | 68 | MY 80N6 | 123 |
| | 209 | 25 | 4.30* | 4260 | 3.2 | | | | |
| | 239 | 22 | 3.77 | 4090 | 4.0 | | | | |
| | 263 | 20 | 5.18 | 3970 | 3.8 | TRX | 68 | MY 80K4 | 122 |
| | 300 | 18 | 4.53 | 3800 | 4.7 | TRXF | 68 | MY 80K4 | 123 |
| | 316 | 17 | 4.30* | 3740 | 4.8 | | | | |
| | 360 | 15 | 3.77 | 3590 | 6.0 | | | | |
| | 425 | 12 | 3.20* | 3410 | 8.1 | | | | |
| | 471 | 11 | 2.89 | 3300 | 9.5 | | | | |
| | 535 | 9.8 | 2.54 | 3170 | 12 | | | | |
| | 567 | 9.3 | 2.40* | 3110 | 13 | | | | |
| | 666 | 7.9 | 2.04 | 2950 | 17 | | | | |
| | 732 | 7.2 | 1.86 | 2860 | 18 | | | | |
| | 845 | 6.2 | 1.61 | 2730 | 18 | | | | |
| | 207 | 25 | 4.35 | 3440 | 2.7 | TRX | 58 | MY 80N6 | 120 |
| | 238 | 22 | 3.79 | 3300 | 3.1 | TRXF | 58 | MY 80N6 | 121 |
| | 254 | 21 | 3.55* | 3230 | 3.3 | | | | |
| | 287 | 18 | 3.14 | 3110 | 3.6 | | | | |
| | 309 | 17 | 2.91 | 3040 | 3.9 | | | | |
| | 312 | 17 | 4.35 | 3040 | 4.1 | TRX | 58 | MY 80K4 | 120 |
| | 359 | 15 | 3.79 | 2910 | 4.7 | TRXF | 58 | MY 80K4 | 121 |
| | 383 | 14 | 3.55* | 2850 | 5.0 | | | | |
| | 434 | 12 | 3.14 | 2740 | 5.4 | | | | |
| | 467 | 11 | 2.91 | 2680 | 6.0 | | | | |
| | 515 | 10 | 2.64* | 2600 | 6.8 | | | | |
| | 574 | 9.2 | 2.37 | 2510 | 7.5 | | | | |
| | 666 | 7.9 | 2.04 | 2390 | 8.7 | | | | |
| | 708 | 7.4 | 1.92* | 2350 | 9.3 | | | | |
| | 823 | 6.4 | 1.65 | 2230 | 11 | | | | |
| | 921 | 5.7 | 1.48 | 2150 | 12 | | | | |
| | 1045 | 5.0 | 1.30 | 2070 | 13 | | | | |
| 0.75 | 0.30 | 20700 | 4650 | 120000 | 0.85 | TR | 168 / TRF98 | MY 80N4 | 166 |
| | 0.33 | 18200 | 4129 | 120000 | 1.00 | TRF | 168 / TRF98 | MY 80N4 | 166 |
| | 0.52 | 12100 | 2657 | 120000 | 1.50 | TR | 168 / TRF98 | MY 80N4 | 166 |
| | 0.59 | 10500 | 2333 | 120000 | 1.70 | TRF | 168 / TRF98 | MY 80N4 | 166 |
| | 0.66 | 9300 | 2085 | 120000 | 1.95 | TR | 168 / TRF98 | MY 80N4 | 166 |
| | 0.96 | 6550 | 1438 | 120000 | 2.8 | TRF | 168 / TRF98 | MY 80N4 | 166 |
| | 0.42 | 15300 | 3302 | 46300 | 0.85 | TR | 148 / TRF78 | MY 80N4 | 166 |
| | 0.48 | 13400 | 2898 | 61800 | 0.95 | TRF | 148 / TRF78 | MY 80N4 | 166 |
| | 0.54 | 12100 | 2555 | 64400 | 1.10 | TR | 148 / TRF78 | MY 80N4 | 166 |
| | 0.62 | 10500 | 2211 | 67100 | 1.25 | TRF | 148 / TRF78 | MY 80N4 | 166 |
| | 0.71 | 9230 | 1951 | 68800 | 1.40 | | | | |
| | 0.81 | 7940 | 1705 | 70400 | 1.65 | | | | |
| | 0.90 | 7130 | 1536 | 71200 | 1.80 | | | | |
| | 1.00 | 6170 | 1329 | 72100 | 2.1 | | | | |
| | 1.20 | 5380 | 1166 | 72700 | 2.4 | | | | |
| | 0.74 | 8730 | 1863 | 50900 | 0.90 | TR | 138 / TRF78 | MY 80N4 | 166 |
| | 0.87 | 7390 | 1586 | 54600 | 1.10 | TRF | 138 / TRF78 | MY 80N4 | 166 |
| | 0.99 | 6580 | 1391 | 56100 | 1.20 | | | | |
| 1.10 | 5920 | 1256 | 57100 | 1.35 | | | | | |
| 0.67 | 9810 | 2073 | 37900 | 0.80 | TR | 138 / TRF78 | MY 80N4 | 166 | |
| 0.75 | 8610 | 1839 | 51400 | 0.95 | TRF | 138 / TRF78 | MY 80N4 | 166 | |
| 0.86 | 7410 | 1598 | 54600 | 1.10 | | | | | |
| 0.99 | 6590 | 1397 | 56100 | 1.20 | | | | | |

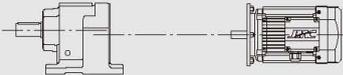
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
|------------------|------------------|------------------|---------|-----------------|-------|--|--------------|
| 0.75 | 1.1 | 5750 | 1226 | 57400 | 1.40 | TR 138 / TRF78 | MY 80N4 166 |
| | 1.3 | 5140 | 1090 | 58200 | 1.55 | TRF 138 / TRF78 | MY 80N4 166 |
| | 1.4 | 4490 | 951 | 59000 | 1.80 | | |
| | 1.7 | 3860 | 831 | 59600 | 2.1 | | |
| | 1.9 | 3360 | 730 | 60100 | 2.4 | | |
| | 1.3 | 4940 | 1055 | 16400 | 0.85 | TR 108 / TRF78 | MY 80N4 166 |
| | 1.5 | 4310 | 919 | 29400 | 1.00 | TRF 108 / TRF78 | MY 80N4 166 |
| | 1.7 | 3840 | 815 | 31700 | 1.10 | | |
| | 1.5 | 4400 | 939 | 28900 | 1.00 | TR 108 / TRF78 | MY 80N4 166 |
| | 1.7 | 3830 | 822 | 31800 | 1.10 | TRF 108 / TRF78 | MY 80N4 166 |
| | 3.7 | 1710 | 369 | 37100 | 2.5 | | |
| | 4.3 | 1490 | 323 | 37200 | 2.9 | | |
| | 2.2 | 2990 | 632 | 20100 | 1.00 | TR 98 / TRF58 | MY 80N4 166 |
| | 2.5 | 2620 | 560 | 23400 | 1.15 | TRF 98 / TRF58 | MY 80N4 166 |
| | 2.9 | 2270 | 484 | 25200 | 1.30 | | |
| | 3.2 | 2050 | 431 | 26200 | 1.45 | | |
| | 3.6 | 1800 | 379 | 27100 | 1.65 | | |
| | 4.1 | 1600 | 336 | 27500 | 1.90 | | |
| | 4.7 | 1400 | 296 | 27800 | 2.1 | | |
| | 5.5 | 1170 | 249 | 28100 | 2.6 | | |
| | 3.5 | 1870 | 398 | 9720 | 0.85 | TR 88 / TRF58 | MY 80N4 166 |
| | 3.9 | 1650 | 352 | 16200 | 0.95 | TRF 88 / TRF58 | MY 80N4 166 |
| | 4.5 | 1430 | 305 | 17700 | 1.10 | | |
| | 5.2 | 1260 | 268 | 18700 | 1.25 | | |
| | 5.9 | 1110 | 236 | 19400 | 1.40 | | |
| | 3.8 | 1740 | 361 | 15500 | 0.90 | TR 88 / TRF58 | MY 80N4 166 |
| | 4.6 | 1440 | 300 | 17700 | 1.10 | TRF 88 / TRF58 | MY 80N4 166 |
| | 5.4 | 1220 | 256 | 18900 | 1.25 | | |
| | 2.8 | 2610 | 251.15 | 36000 | 1.65 | TR 108 | MY 100M8 158 |
| | 3.0 | 2390 | 229.95 | 36300 | 1.80 | TRF 108 | MY 100M8 159 |
| | 3.4 | 2110 | 203.16 | 36700 | 2.00 | | |
| | 3.2 | 2240 | 216.28 | 25300 | 1.35 | TR 98 | MY 100M8 156 |
| | 3.7 | 1930 | 186.30 | 26600 | 1.55 | TRF 98 | MY 100M8 157 |
| | 4.1 | 1760 | 170.02 | 27200 | 1.70 | | |
| | 3.5 | 2030 | 255.71 | 26200 | 1.45 | TR 98 | MY 90S6 156 |
| | 3.7 | 1920 | 241.25 | 26700 | 1.55 | TRF 98 | MY 90S6 157 |
| | 4.2 | 1720 | 216.28 | 27300 | 1.75 | | |
| | 4.8 | 1500 | 289.74 | 27600 | 2.0 | TR 98 | MY 80N4 156 |
| | 5.4 | 1330 | 255.71 | 27900 | 2.3 | TRF 98 | MY 80N4 157 |
| | 5.7 | 1250 | 241.25 | 28000 | 2.4 | | |
| | 6.4 | 1120 | 216.28 | 28100 | 2.7 | | |
| | 7.4 | 970 | 186.30 | 28300 | 3.1 | | |
| | 8.1 | 880 | 170.02 | 28300 | 3.4 | | |
| | 4.2 | 1720 | 216.54 | 15600 | 0.90 | TR 88 | MY 90S6 153 |
| | 4.4 | 1640 | 205.71 | 16300 | 0.95 | TRF 88 | MY 90S6 154 |
| | 5.0 | 1450 | 181.77 | 17600 | 1.05 | | |
| | 5.8 | 1240 | 155.34 | 18800 | 1.25 | TR 88 | MY 90S6 153 |
| | 6.3 | 1130 | 142.41 | 19300 | 1.35 | TRF 88 | MY 90S6 154 |
| | 5.6 | 1280 | 246.54 | 18600 | 1.20 | TR 88 | MY 80N4 153 |
| | 6.4 | 1120 | 216.54 | 19300 | 1.40 | TRF 88 | MY 80N4 154 |
| | 6.7 | 1070 | 205.71 | 19600 | 1.45 | | |
| | 7.6 | 940 | 181.77 | 20000 | 1.65 | | |
| | 8.9 | 810 | 155.34 | 20000 | 1.90 | | |
| | 9.7 | 740 | 142.41 | 20000 | 2.1 | | |
| | 11 | 650 | 124.97 | 20000 | 2.4 | | |
| | 12 | 615 | 118.43* | 20000 | 2.5 | | |
| | 13 | 540 | 103.65 | 20000 | 2.9 | | |
| | 15 | 485 | 93.38 | 20000 | 3.2 | | |
| | 8.3 | 860 | 166.59 | 9490 | 0.95 | TR 78 | MY 80N4 150 |
| | 9.5 | 755 | 145.67 | 10500 | 1.10 | TRF 78 | MY 80N4 151 |
| | 10 | 720 | 138.39 | 10800 | 1.15 | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
|------------------|------------------|------------------|--------|-----------------|-------|--|--------------------|
| 0.75 | 11 | 630 | 121.42 | 11400 | 1.30 | TR 78 | MY 80N4 150 |
| | 13 | 535 | 102.99 | 11900 | 1.55 | TRF 78 | MY 80N4 151 |
| | 15 | 485 | 92.97 | 12200 | 1.70 | | |
| | 17 | 425 | 81.80 | 12400 | 1.95 | | |
| | 18 | 400 | 77.24 | 12500 | 2.1 | | |
| | 21 | 340 | 65.77 | 12700 | 2.4 | | |
| | 24 | 300 | 57.68 | 12800 | 2.7 | | |
| | 27 | 270 | 52.07 | 12900 | 3.0 | | |
| | 30 | 240 | 45.81 | 12900 | 3.5 | | |
| | 32 | 225 | 43.26 | 13000 | 3.7 | | |
| | 11 | 670 | 128.97 | 4040 | 0.90 | TR 68 | MY 80N4 147 |
| | 12 | 590 | 113.94 | 7660 | 1.00 | TRF 68 | MY 80N4 148 |
| | 13 | 550 | 105.83 | 8120 | 1.10 | | |
| | 14 | 500 | 95.91 | 8600 | 1.20 | | |
| | 16 | 445 | 86.11 | 9010 | 1.35 | | |
| | 19 | 385 | 74.17 | 9430 | 1.55 | | |
| | 20 | 360 | 69.75 | 9570 | 1.65 | | |
| | 23 | 320 | 61.26 | 9800 | 1.90 | | |
| | 24 | 295 | 56.89 | 9910 | 2.0 | | |
| | 27 | 270 | 51.56 | 10000 | 2.2 | | |
| | 30 | 240 | 46.29 | 10100 | 2.5 | | |
| | 13 | 555 | 106.58 | 4610 | 0.80 | TR 58 | MY 80N4 144 |
| | 14 | 515 | 98.99 | 6200 | 0.90 | TRF 58 | MY 80N4 145 |
| | 15 | 465 | 89.71 | 7040 | 0.95 | | |
| | 17 | 420 | 80.55 | 7240 | 1.10 | | |
| | 20 | 360 | 69.23 | 7450 | 1.25 | | |
| | 21 | 335 | 64.85 | 7430 | 1.35 | | |
| | 24 | 295 | 57.29 | 7220 | 1.50 | | |
| | 26 | 275 | 53.22 | 7090 | 1.65 | TR 58 | MY 80N4 144 |
| | 29 | 250 | 48.23 | 6930 | 1.80 | TRF 58 | MY 80N4 145 |
| | 32 | 225 | 43.30 | 6740 | 2.0 | | |
| | 37 | 194 | 37.30* | 6490 | 2.3 | | |
| | 39 | 182 | 35.07 | 6380 | 2.5 | | |
| | 46 | 157 | 30.18 | 6130 | 2.9 | | |
| | 51 | 140 | 26.97 | 5940 | 3.2 | | |
| | 52 | 137 | 26.31 | 5900 | 3.3 | TR 58 | MY 80N4 144 |
| | 55 | 130 | 24.99* | 5820 | 3.5 | TRF 58 | MY 80N4 145 |
| | 63 | 114 | 21.93 | 5610 | 4.0 | | |
| | 74 | 97 | 18.60* | 5350 | 4.7 | | |
| | 20 | 355 | 68.54 | 3660 | 0.85 | TR 48 | MY 80N4 141 |
| | 21 | 335 | 64.21 | 4950 | 0.90 | TRF 48 | MY 80N4 142 |
| | 24 | 295 | 56.73 | 5450 | 1.00 | | |
| | 26 | 275 | 52.69 | 5480 | 1.10 | TR 48 | MY 80N4 141 |
| | 29 | 250 | 47.75 | 5370 | 1.20 | TRF 48 | MY 80N4 142 |
| | 32 | 225 | 42.87 | 5240 | 1.35 | | |
| | 37 | 192 | 36.93 | 5060 | 1.55 | | |
| | 40 | 180 | 34.73 | 4980 | 1.65 | | |
| | 46 | 155 | 29.88 | 4800 | 1.95 | | |
| | 52 | 139 | 26.70 | 4660 | 2.2 | | |
| | 58 | 122 | 23.59 | 4510 | 2.5 | | |
| | 52 | 139 | 26.74 | 4660 | 2.2 | TR 48 | MY 80N4 141 |
| | 59 | 121 | 23.28 | 4490 | 2.5 | TRF 48 | MY 80N4 142 |
| | 63 | 113 | 21.81 | 4420 | 2.7 | | |
| | 72 | 100 | 19.27 | 4270 | 3.0 | | |
| | 77 | 93 | 17.89 | 4180 | 3.1 | | |
| | 85 | 84 | 16.22 | 4070 | 3.3 | | |
| | 29 | 250 | 48.08 | 2330 | 0.80 | TR 38 | MY 80N4 138 |
| | 31 | 235 | 44.81 | 4230 | 0.85 | TRF 38 | MY 80N4 139 |
| | 35 | 205 | 39.17 | 4720 | 1.00 | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | | | Page |
|------------------|------------------|------------------|--------|-----------------|-------|--|---------|---------|------|
| 0.75 | 38 | 191 | 36.72 | 4740 | 1.05 | TR | 38 | MY 80N4 | 138 |
| | 43 | 168 | 32.40 | 4610 | 1.20 | TRF | 38 | MY 80N4 | 139 |
| | 48 | 149 | 28.73 | 4490 | 1.35 | | | | |
| | 57 | 127 | 24.42 | 4320 | 1.60 | | | | |
| | 62 | 116 | 22.27 | 4230 | 1.75 | TR | 38 | MY 80N4 | 138 |
| | 71 | 100 | 19.31 | 4080 | 2.0 | TRF | 38 | MY 80N4 | 139 |
| | 76 | 94 | 18.05 | 4010 | 2.1 | | | | |
| | 88 | 81 | 15.60 | 3850 | 2.5 | | | | |
| | 104 | 69 | 13.25 | 3690 | 2.8 | | | | |
| | 117 | 61 | 11.83 | 3570 | 3.0 | | | | |
| | 137 | 53 | 10.11 | 3420 | 3.2 | | | | |
| | 146 | 49 | 9.47 | 3360 | 3.4 | | | | |
| | 48 | 149 | 28.78 | 2880 | 0.85 | TR | 28 | MY 80N4 | 135 |
| | 56 | 127 | 24.47 | 2800 | 1.00 | TRF | 28 | MY 80N4 | 136 |
| | 62 | 116 | 22.32 | 2750 | 1.10 | TR | 28 | MY 80N4 | 135 |
| | 71 | 100 | 19.35 | 2670 | 1.30 | TRF | 28 | MY 80N4 | 136 |
| | 76 | 94 | 18.08 | 2630 | 1.40 | | | | |
| | 88 | 81 | 15.63 | 2550 | 1.60 | | | | |
| | 104 | 69 | 13.28* | 2450 | 1.90 | | | | |
| | 116 | 62 | 11.86 | 2380 | 2.1 | | | | |
| | 136 | 53 | 10.13 | 2290 | 2.3 | | | | |
| | 147 | 49 | 9.41 | 2210 | 2.5 | | | | |
| | 169 | 42 | 8.16 | 2130 | 2.7 | | | | |
| | 181 | 40 | 7.63* | 2090 | 2.8 | | | | |
| | 209 | 34 | 6.59 | 2010 | 3.1 | | | | |
| | 246 | 29 | 5.60* | 1930 | 3.4 | | | | |
| | 276 | 26 | 5.00* | 1870 | 3.7 | | | | |
| | 70 | 102 | 19.71 | 465 | 0.85 | TR | 18 | MY 80N4 | 132 |
| | 81 | 88 | 16.99 | 1390 | 0.95 | TRF | 18 | MY 80N4 | 133 |
| | 87 | 82 | 15.84 | 1380 | 1.05 | | | | |
| | 100 | 72 | 13.84 | 1370 | 1.20 | | | | |
| | 106 | 67 | 12.98 | 1360 | 1.25 | | | | |
| | 121 | 59 | 11.45 | 1350 | 1.35 | | | | |
| | 136 | 53 | 10.15 | 1320 | 1.45 | | | | |
| | 160 | 45 | 8.63 | 1290 | 1.60 | | | | |
| | 183 | 39 | 7.55 | 1200 | 1.45 | | | | |
| | 196 | 37 | 7.04 | 1180 | 1.50 | | | | |
| | 224 | 32 | 6.15 | 1160 | 1.70 | | | | |
| | 239 | 30 | 5.76 | 1150 | 1.75 | | | | |
| | 271 | 26 | 5.09 | 1120 | 1.95 | | | | |
| | 306 | 23 | 4.51 | 1090 | 2.1 | | | | |
| | 360 | 20 | 3.83 | 1060 | 2.3 | | | | |
| | 236 | 30 | 11.45 | 1200 | 2.7 | TR | 18 | MY 80K2 | 132 |
| | 266 | 27 | 10.15 | 1170 | 2.9 | TRF | 18 | MY 80K2 | 133 |
| | 313 | 23 | 8.63 | 1130 | 3.1 | | | | |
| | 358 | 20 | 7.55 | 1060 | 2.8 | | | | |
| | 384 | 19 | 7.04 | 1040 | 2.9 | | | | |
| | 439 | 16 | 6.15 | 1010 | 3.3 | | | | |
| 468 | 15 | 5.76 | 990 | 3.5 | | | | | |
| 531 | 14 | 5.09 | 960 | 3.8 | | | | | |
| 599 | 12 | 4.51 | 930 | 4.0 | | | | | |
| 704 | 10 | 3.83 | 890 | 4.4 | | | | | |
| 199 | 36 | 4.53 | 4260 | 2.3 | TRX | 68 | MY 90S6 | 122 | |
| 209 | 34 | 4.30* | 4200 | 2.3 | TRXF | 68 | MY 90S6 | 123 | |
| 239 | 30 | 3.77 | 4040 | 2.9 | | | | | |
| 281 | 26 | 3.20* | 3840 | 3.9 | | | | | |
| 267 | 27 | 5.18 | 3900 | 2.8 | TRX | 68 | MY 80N4 | 122 | |
| 305 | 24 | 4.53 | 3750 | 3.5 | TRXF | 68 | MY 80N4 | 123 | |
| 321 | 22 | 4.30* | 3690 | 3.6 | | | | | |
| 366 | 20 | 3.77 | 3540 | 4.4 | | | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page | |
|------------------|------------------|------------------|-------|-----------------|-------|--|----------------|-----|
| 0.75 | 431 | 17 | 3.20* | 3360 | 6.0 | TRX 68 | MY 80N4 | 122 |
| | 478 | 15 | 2.89 | 3260 | 7.1 | TRXF 68 | MY 80N4 | 123 |
| | 543 | 13 | 2.54 | 3130 | 8.9 | | | |
| | 575 | 13 | 2.40* | 3070 | 9.8 | | | |
| | 675 | 11 | 2.04 | 2920 | 13 | | | |
| | 743 | 9.6 | 1.86 | 2830 | 13 | | | |
| | 858 | 8.3 | 1.61 | 2700 | 14 | | | |
| | 238 | 30 | 3.79 | 3240 | 2.3 | TRX 58 | MY 90S6 | 120 |
| | 254 | 28 | 3.55* | 3180 | 2.4 | TRXF 58 | MY 90S6 | 121 |
| | 287 | 25 | 3.14 | 3060 | 2.6 | | | |
| | 309 | 23 | 2.91 | 3000 | 2.9 | | | |
| | 341 | 21 | 2.64* | 2910 | 3.3 | | | |
| | 317 | 23 | 4.35 | 2980 | 3.0 | TRX 58 | MY 80N4 | 120 |
| | 364 | 20 | 3.79 | 2860 | 3.5 | TRXF 58 | MY 80N4 | 121 |
| | 389 | 18 | 3.55* | 2800 | 3.8 | | | |
| | 440 | 16 | 3.14 | 2700 | 4.0 | | | |
| | 474 | 15 | 2.91 | 2630 | 4.4 | | | |
| | 523 | 14 | 2.64* | 2560 | 5.0 | | | |
| | 582 | 12 | 2.37 | 2470 | 5.6 | | | |
| | 676 | 11 | 2.04 | 2360 | 6.5 | | | |
| | 719 | 10 | 1.92* | 2310 | 6.9 | | | |
| | 835 | 8.6 | 1.65 | 2210 | 8.0 | | | |
| | 935 | 7.7 | 1.48 | 2130 | 8.8 | | | |
| | 1060 | 6.8 | 1.30 | 2050 | 9.3 | | | |
| 1.1 | 0.53 | 17900 | 2657 | 120000 | 1.00 | TR 168 / TRF98 | MY 90S4 | 166 |
| | 0.60 | 15600 | 2333 | 120000 | 1.15 | TRF 168 / TRF98 | MY 90S4 | 166 |
| | 0.67 | 13800 | 2085 | 120000 | 1.30 | | | |
| | 0.75 | 12300 | 1877 | 120000 | 1.45 | | | |
| | 0.84 | 11000 | 1670 | 120000 | 1.65 | | | |
| | 0.97 | 9680 | 1438 | 120000 | 1.85 | | | |
| | 1.1 | 8620 | 1279 | 120000 | 2.1 | | | |
| | 1.2 | 7510 | 1123 | 120000 | 2.4 | | | |
| | 0.63 | 15300 | 2211 | 46800 | 0.85 | TR 148 / TRF78 | MY 90S4 | 166 |
| | 0.72 | 13500 | 1951 | 61700 | 0.95 | TRF 148 / TRF78 | MY 90S4 | 166 |
| | 0.82 | 11700 | 1705 | 65200 | 1.10 | | | |
| | 0.91 | 10500 | 1536 | 67100 | 1.25 | | | |
| | 1.1 | 9060 | 1329 | 69000 | 1.45 | | | |
| | 1.2 | 7920 | 1166 | 70400 | 1.65 | | | |
| | 1.4 | 6960 | 1029 | 71400 | 1.85 | | | |
| | 1.6 | 6030 | 889 | 72200 | 2.2 | | | |
| | 1.8 | 5300 | 784 | 72700 | 2.5 | | | |
| | 2.0 | 4680 | 695 | 73200 | 2.8 | | | |
| | 1.0 | 9610 | 1391 | 41900 | 0.85 | TR 138 / TRF78 | MY 90S4 | 166 |
| | 1.1 | 8660 | 1256 | 51200 | 0.90 | TRF 138 / TRF78 | MY 90S4 | 166 |
| | 1.3 | 7590 | 1105 | 54200 | 1.05 | | | |
| | 1.3 | 7160 | 1043 | 55100 | 1.10 | | | |
| | 1.6 | 6070 | 888 | 56900 | 1.30 | | | |
| | 1.0 | 9630 | 1397 | 41500 | 0.85 | TR 138 / TRF78 | MY 90S4 | 166 |
| | 1.1 | 8420 | 1226 | 52200 | 0.95 | TRF 138 / TRF78 | MY 90S4 | 166 |
| | 1.3 | 7510 | 1090 | 54400 | 1.05 | | | |
| | 1.5 | 6560 | 951 | 56100 | 1.20 | | | |
| | 1.7 | 5670 | 831 | 57500 | 1.40 | | | |
| | 1.9 | 4950 | 730 | 58500 | 1.60 | | | |
| | 2.2 | 4230 | 629 | 59300 | 1.90 | | | |
| | 2.5 | 3830 | 560 | 59700 | 2.1 | | | |
| | 2.9 | 3300 | 490 | 60100 | 2.4 | | | |
| | 1.9 | 4930 | 717 | 17300 | 0.85 | TR 108 / TRF78 | MY 90S4 | 166 |
| | | | | | | TRF 108 / TRF78 | MY 90S4 | 166 |
| | 2.3 | 4150 | 614 | 30200 | 1.05 | TR 108 / TRF78 | MY 90S4 | 166 |
| | 2.6 | 3670 | 544 | 32500 | 1.15 | TRF 108 / TRF78 | MY 90S4 | 166 |
| 2.8 | 3310 | 492 | 33900 | 1.30 | | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
|------------------|------------------|------------------|---------|-----------------|--------|--|--------------|
| 1.1 | 3.4 | 2810 | 417 | 35500 | 1.55 | TR 108 / TRF78 | MY 90S4 166 |
| | 3.8 | 2510 | 369 | 36200 | 1.70 | TRF 108 / TRF78 | MY 90S4 166 |
| | 4.3 | 2200 | 323 | 36600 | 1.95 | | |
| | 4.9 | 1930 | 285 | 36800 | 2.2 | | |
| | 5.5 | 1700 | 253 | 37100 | 2.5 | | |
| | 3.2 | 2990 | 431 | 20300 | 1.00 | TR 98 / TRF58 | MY 90S4 166 |
| | 3.7 | 2620 | 379 | 23400 | 1.15 | TRF 98 / TRF58 | MY 90S4 166 |
| | 4.2 | 2330 | 336 | 24900 | 1.30 | | |
| | 4.7 | 2050 | 296 | 26200 | 1.45 | | |
| | 5.6 | 1710 | 249 | 27300 | 1.75 | | |
| | 6.0 | 1590 | 234 | 27500 | 1.90 | | |
| | 6.7 | 1430 | 209 | 27700 | 2.1 | | |
| | 5.2 | 1840 | 268 | 11700 | 0.85 | TR 88 / TRF58 | MY 90S4 166 |
| | 5.9 | 1630 | 236 | 16400 | 0.95 | TRF 88 / TRF58 | MY 90S4 166 |
| | 6.7 | 1430 | 209 | 17700 | 1.10 | | |
| | 5.5 | 1780 | 256 | 15100 | 0.85 | TR 88 / TRF58 | MY 90S4 166 |
| | 6.0 | 1610 | 232 | 16500 | 0.95 | TRF 88 / TRF58 | MY 90S4 166 |
| | 7.2 | 1370 | 195 | 18100 | 1.15 | | |
| | 2.7 | 3940 | 251.15 | 31300 | 1.10 | TR 108 | MY 100L8 158 |
| | 2.9 | 3610 | 229.95 | 32700 | 1.20 | TRF 108 | MY 100L8 159 |
| | 3.3 | 3190 | 203.16 | 34300 | 1.35 | | |
| | 3.9 | 2700 | 172.34 | 35800 | 1.60 | | |
| | 3.6 | 2920 | 255.71 | 21500 | 1.05 | TR 98 | MY 90L6 156 |
| | 3.8 | 2750 | 241.25 | 22600 | 1.10 | TRF 98 | MY 90L6 157 |
| | 4.2 | 2470 | 216.28 | 24200 | 1.20 | | |
| | 4.9 | 2130 | 186.30 | 25900 | 1.40 | | |
| | 5.5 | 1920 | 255.71 | 26700 | 1.55 | TR 98 | MY 90S4 156 |
| | 5.8 | 1810 | 241.25 | 27100 | 1.65 | TRF 98 | MY 90S4 157 |
| | 6.5 | 1620 | 216.28 | 27500 | 1.85 | | |
| | 7.5 | 1400 | 186.30 | 27800 | 2.2 | | |
| | 8.2 | 1280 | 170.02 | 27900 | 2.4 | | |
| | 9.3 | 1130 | 150.78 | 28100 | 2.7 | | |
| | 11 | 950 | 126.75 | 28300 | 3.2 | | |
| | 12 | 870 | 116.48 | 28300 | 3.4 | | |
| | 6.5 | 1620 | 216.54 | 16400 | 0.95 | TR 88 | MY 90S4 153 |
| | 6.8 | 1540 | 205.71 | 17000 | 1.00 | TRF 88 | MY 90S4 154 |
| | 7.7 | 1360 | 181.77 | 18100 | 1.15 | | |
| | 9.0 | 1170 | 155.34 | 19100 | 1.35 | TR 88 | MY 90S4 153 |
| | 9.8 | 1070 | 142.41 | 19600 | 1.45 | TRF 88 | MY 90S4 154 |
| | 11 | 940 | 124.97 | 20000 | 1.65 | | |
| | 12 | 890 | 118.43* | 20000 | 1.75 | | |
| | 14 | 780 | 103.65 | 20000 | 2.0 | | |
| 15 | 700 | 93.38 | 20000 | 2.2 | | | |
| 17 | 615 | 81.92 | 20000 | 2.5 | | | |
| 19 | 545 | 72.57 | 20000 | 2.9 | | | |
| 22 | 480 | 63.68* | 20000 | 3.2 | | | |
| 23 | 455 | 60.35* | 20000 | 3.4 | | | |
| 27 | 395 | 52.82 | 20000 | 3.9 | | | |
| 12 | 910 | 121.42 | 8990 | 0.90 | TR 78 | MY 90S4 150 | |
| 14 | 775 | 102.99 | 10300 | 1.05 | TRF 78 | MY 90S4 151 | |
| 15 | 700 | 92.97 | 10900 | 1.20 | | | |
| 17 | 615 | 81.80 | 11500 | 1.35 | TR 78 | MY 90S4 150 | |
| 18 | 580 | 77.24 | 11700 | 1.40 | TRF 78 | MY 90S4 151 | |
| 21 | 495 | 65.77 | 12100 | 1.65 | | | |
| 24 | 435 | 57.68 | 12400 | 1.90 | | | |
| 27 | 390 | 52.07 | 12500 | 2.1 | | | |
| 31 | 345 | 45.81 | 12700 | 2.4 | | | |
| 32 | 325 | 43.26 | 12700 | 2.5 | | | |
| 38 | 275 | 36.83 | 12900 | 3.0 | | | |
| 42 | 250 | 33.47 | 12900 | 3.3 | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
|------------------|------------------|------------------|--------|-----------------|--------|--|-------------|
| 1.1 | 16 | 645 | 86.11 | 6820 | 0.95 | TR 68 | MY 90S4 147 |
| | 19 | 555 | 74.17 | 8040 | 1.10 | TRF 68 | MY 90S4 148 |
| | 20 | 525 | 69.75 | 8370 | 1.15 | | |
| | 23 | 460 | 61.26 | 8920 | 1.30 | | |
| | 25 | 425 | 56.89 | 9160 | 1.40 | | |
| | 27 | 385 | 51.56 | 9420 | 1.55 | | |
| | 30 | 345 | 46.29 | 9650 | 1.75 | | |
| | 35 | 300 | 39.88* | 9890 | 1.95 | | |
| | 37 | 280 | 37.50 | 9970 | 2.0 | | |
| | 43 | 240 | 32.27 | 10100 | 2.2 | | |
| | 49 | 215 | 28.83 | 10200 | 2.4 | | |
| | 50 | 210 | 28.13 | 10200 | 2.6 | TR 68 | MY 90S4 147 |
| | 52 | 200 | 26.72 | 10100 | 2.7 | TRF 68 | MY 90S4 148 |
| | 60 | 176 | 23.44 | 9730 | 3.2 | | |
| | 70 | 149 | 19.89 | 9270 | 4.0 | | |
| | 20 | 520 | 69.23 | 5990 | 0.85 | TR 58 | MY 90S4 144 |
| | 22 | 485 | 64.85 | 6850 | 0.90 | TRF 58 | MY 90S4 145 |
| | 24 | 430 | 57.29 | 6700 | 1.05 | | |
| | 26 | 400 | 53.22 | 6610 | 1.15 | TR 58 | MY 90S4 144 |
| | 29 | 360 | 48.23 | 6490 | 1.25 | TRF 58 | MY 90S4 145 |
| | 32 | 325 | 43.30 | 6350 | 1.40 | | |
| | 38 | 280 | 37.30* | 6140 | 1.60 | | |
| | 40 | 265 | 35.07 | 6060 | 1.70 | | |
| | 46 | 225 | 30.18 | 5850 | 2.0 | | |
| | 52 | 200 | 26.97 | 5690 | 2.2 | | |
| | 53 | 197 | 26.31 | 5650 | 2.3 | TR 58 | MY 90S4 144 |
| | 56 | 188 | 24.99* | 5580 | 2.4 | TRF 58 | MY 90S4 145 |
| | 64 | 165 | 21.93 | 5400 | 2.7 | | |
| | 75 | 140 | 18.60* | 5170 | 3.2 | | |
| | 83 | 126 | 16.79 | 5030 | 3.6 | | |
| | 29 | 360 | 47.75 | 3500 | 0.85 | TR 48 | MY 90S4 141 |
| | 33 | 320 | 42.87 | 4850 | 0.95 | TRF 48 | MY 90S4 142 |
| | 38 | 275 | 36.93 | 4720 | 1.10 | | |
| | 40 | 260 | 34.73 | 4660 | 1.15 | | |
| | 47 | 225 | 29.88 | 4520 | 1.35 | | |
| | 52 | 200 | 26.70 | 4410 | 1.50 | | |
| | 59 | 177 | 23.59 | 4290 | 1.70 | | |
| | 60 | 175 | 23.28 | 4270 | 1.70 | TR 48 | MY 90S4 141 |
| | 64 | 164 | 21.81 | 4210 | 1.85 | TRF 48 | MY 90S4 142 |
| | 73 | 145 | 19.27 | 4080 | 2.0 | | |
| | 78 | 134 | 17.89 | 4010 | 2.2 | | |
| | 86 | 122 | 16.22 | 3910 | 2.3 | | |
| | 96 | 109 | 14.56 | 3800 | 2.4 | | |
| | 112 | 94 | 12.54 | 3650 | 2.7 | | |
| | 119 | 89 | 11.79 | 3590 | 2.8 | | |
| | 138 | 76 | 10.15 | 3450 | 3.0 | | |
| | 154 | 68 | 9.07 | 3340 | 3.2 | | |
| | 43 | 245 | 32.40 | 2900 | 0.80 | TR 38 | MY 90S4 138 |
| | 49 | 215 | 28.73 | 3300 | 0.95 | TRF 38 | MY 90S4 139 |
| 57 | 183 | 24.42 | 3720 | 1.10 | | | |
| 73 | 145 | 19.31 | 3840 | 1.40 | TR 38 | MY 90S4 138 | |
| 78 | 135 | 18.05 | 3790 | 1.50 | TRF 38 | MY 90S4 139 | |
| 90 | 117 | 15.60 | 3660 | 1.70 | | | |
| 106 | 99 | 13.25 | 3520 | 1.90 | TR 38 | MY 90S4 138 | |
| 118 | 89 | 11.83 | 3430 | 2.1 | TRF 38 | MY 90S4 139 | |
| 139 | 76 | 10.11 | 3290 | 2.2 | | | |
| 148 | 71 | 9.47 | 3230 | 2.4 | | | |
| 176 | 60 | 7.97 | 3090 | 2.6 | | | |
| 210 | 50 | 6.67 | 2920 | 2.9 | | | |
| 247 | 43 | 5.67 | 2790 | 3.3 | | | |
| 277 | 38 | 5.06 | 2700 | 3.6 | | | |

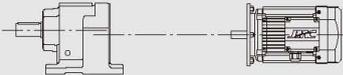
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | | | Page |
|------------------|------------------|------------------|--------|-----------------|-------|--|---------|---------|------|
| 1.1 | 72 | 145 | 19.35 | 2430 | 0.90 | TR | 28 | MY 90S4 | 135 |
| | 77 | 136 | 18.08 | 2410 | 0.95 | TRF | 28 | MY 90S4 | 136 |
| | 90 | 117 | 15.63 | 2360 | 1.10 | | | | |
| | 105 | 100 | 13.28* | 2290 | 1.30 | | | | |
| | 118 | 89 | 11.86 | 2240 | 1.45 | | | | |
| | 138 | 76 | 10.13 | 2160 | 1.60 | | | | |
| | 172 | 61 | 8.16 | 2010 | 1.90 | | | | |
| | 184 | 57 | 7.63* | 1980 | 1.95 | | | | |
| | 212 | 50 | 6.59 | 1920 | 2.1 | | | | |
| | 250 | 42 | 5.60* | 1840 | 2.4 | | | | |
| | 280 | 38 | 5.00* | 1790 | 2.5 | | | | |
| | 328 | 32 | 4.27 | 1720 | 2.7 | | | | |
| | 350 | 30 | 4.00* | 1690 | 2.8 | | | | |
| | 415 | 25 | 3.37 | 1610 | 3.1 | | | | |
| | 203 | 52 | 13.28* | 1980 | 2.5 | TR | 28 | MY 80N2 | 135 |
| | 228 | 46 | 11.86 | 1920 | 2.8 | TRF | 28 | MY 80N2 | 136 |
| | 267 | 39 | 10.13 | 1840 | 3.1 | | | | |
| | 287 | 37 | 9.41 | 1780 | 3.3 | | | | |
| | 331 | 32 | 8.16 | 1720 | 3.7 | | | | |
| | 354 | 30 | 7.63* | 1690 | 3.8 | | | | |
| | 410 | 26 | 6.59 | 1620 | 4.1 | | | | |
| | 482 | 22 | 5.60* | 1550 | 4.5 | | | | |
| | 540 | 20 | 5.00* | 1500 | 4.9 | | | | |
| | 632 | 17 | 4.27 | 1430 | 5.2 | | | | |
| | 675 | 16 | 4.00* | 1410 | 5.5 | | | | |
| | 801 | 13 | 3.37 | 1340 | 6.0 | | | | |
| | 137 | 77 | 19.71 | 1150 | 1.10 | TR | 18 | MY 80N2 | 132 |
| | 159 | 66 | 16.99 | 1140 | 1.30 | TRF | 18 | MY 80N2 | 133 |
| | 170 | 62 | 15.84 | 1140 | 1.40 | | | | |
| | 195 | 54 | 13.84 | 1120 | 1.60 | | | | |
| | 208 | 51 | 12.98 | 1120 | 1.70 | | | | |
| | 236 | 45 | 11.45 | 1100 | 1.80 | | | | |
| | 266 | 40 | 10.15 | 1080 | 1.95 | | | | |
| | 313 | 34 | 8.63 | 1050 | 2.1 | | | | |
| | 358 | 29 | 7.55 | 970 | 1.90 | | | | |
| | 384 | 27 | 7.04 | 960 | 2.0 | | | | |
| | 439 | 24 | 6.15 | 940 | 2.3 | | | | |
| | 468 | 22 | 5.76 | 930 | 2.4 | | | | |
| | 531 | 20 | 5.09 | 910 | 2.6 | | | | |
| | 599 | 18 | 4.51 | 880 | 2.7 | | | | |
| | 704 | 15 | 3.83 | 850 | 3.0 | | | | |
| 249 | 42 | 5.63 | 5680 | 2.6 | TRX | 78 | MY 90S4 | 124 | |
| 262 | 40 | 5.35* | 5590 | 2.6 | TRXF | 78 | MY 90S4 | 125 | |
| 296 | 36 | 4.73 | 5380 | 3.5 | | | | | |
| 203 | 52 | 4.53 | 4130 | 1.60 | TRX | 68 | MY 90L6 | 122 | |
| 214 | 49 | 4.30* | 4070 | 1.65 | TRXF | 68 | MY 90L6 | 123 | |
| 244 | 43 | 3.77 | 3920 | 2.0 | | | | | |
| 309 | 34 | 4.53 | 3660 | 2.4 | TRX | 68 | MY 90S4 | 122 | |
| 326 | 32 | 4.30* | 3610 | 2.5 | TRXF | 68 | MY 90S4 | 123 | |
| 371 | 28 | 3.77 | 3470 | 3.1 | | | | | |
| 438 | 24 | 3.20* | 3300 | 4.2 | | | | | |
| 485 | 22 | 2.89 | 3200 | 4.9 | | | | | |
| 551 | 19 | 2.54 | 3070 | 6.2 | | | | | |
| 583 | 18 | 2.40* | 3020 | 6.8 | | | | | |
| 685 | 15 | 2.04 | 2870 | 8.8 | | | | | |
| 754 | 14 | 1.86 | 2780 | 9.1 | | | | | |
| 870 | 12 | 1.61 | 2660 | 9.4 | | | | | |
| 1000 | 11 | 1.40* | 2550 | 9.9 | | | | | |
| 243 | 43 | 3.79 | 3120 | 1.60 | TRX | 58 | MY 90L6 | 120 | |
| 259 | 41 | 3.55* | 3060 | 1.70 | TRXF | 58 | MY 90L6 | 121 | |

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|------------------|------------------|------------------|-------|-----------------|-----------------------|--|----------------|-----|
| 1.1 | 293 | 36 | 3.14 | 2960 | 1.80 | TRX 58 | MY 90L6 | 120 |
| | 316 | 33 | 2.91 | 2900 | 2.0 | TRXF 58 | MY 90L6 | 121 |
| | 348 | 30 | 2.64* | 2820 | 2.3 | | | |
| | 369 | 28 | 3.79 | 2780 | 2.4 | TRX 58 | MY 90S4 | 120 |
| | 394 | 27 | 3.55* | 2730 | 2.6 | TRXF 58 | MY 90S4 | 121 |
| | 446 | 24 | 3.14 | 2630 | 2.8 | | | |
| | 481 | 22 | 2.91 | 2570 | 3.1 | | | |
| | 530 | 20 | 2.64* | 2500 | 3.5 | | | |
| | 591 | 18 | 2.37 | 2420 | 3.9 | | | |
| | 686 | 15 | 2.04 | 2310 | 4.5 | | | |
| | 729 | 14 | 1.92* | 2270 | 4.8 | | | |
| | 847 | 12 | 1.65 | 2160 | 5.6 | | | |
| | 948 | 11 | 1.48 | 2090 | 6.1 | | | |
| | 1075 | 9.8 | 1.30 | 2010 | 6.4 | | | |
| 1.5 | 0.60 | 21400 | 2333 | 120000 | 0.85 | TR 168 / TRF98 | MY 90L4 | 166 |
| | 0.68 | 19000 | 2085 | 120000 | 0.95 | TRF 168 / TRF98 | MY 90L4 | 166 |
| | 0.75 | 17000 | 1877 | 120000 | 1.05 | | | |
| | 0.84 | 15100 | 1670 | 120000 | 1.20 | | | |
| | 0.98 | 13300 | 1438 | 120000 | 1.35 | | | |
| | 1.1 | 11800 | 1279 | 120000 | 1.50 | | | |
| | 1.3 | 10300 | 1123 | 120000 | 1.75 | | | |
| | 1.4 | 9180 | 999 | 120000 | 1.95 | | | |
| | 3.3 | 3920 | 426 | 73600 | 3.3 | TR 148 / TRF88 | MY 90L4 | 166 |
| | 3.8 | 3380 | 368 | 73800 | 3.8 | TRF 148 / TRF88 | MY 90L4 | 166 |
| | 0.83 | 15900 | 1705 | 37900 | 0.80 | TR 148 / TRF78 | MY 90L4 | 166 |
| | 0.92 | 14300 | 1536 | 58600 | 0.90 | TRF 148 / TRF78 | MY 90L4 | 166 |
| | 1.1 | 12400 | 1329 | 63900 | 1.05 | | | |
| | 1.2 | 10800 | 1166 | 66500 | 1.20 | | | |
| | 1.4 | 9530 | 1029 | 68400 | 1.35 | | | |
| | 1.6 | 8250 | 889 | 70000 | 1.60 | | | |
| | 1.8 | 7260 | 784 | 71100 | 1.80 | | | |
| | 2.0 | 6420 | 695 | 71900 | 2.0 | | | |
| | 2.3 | 5780 | 619 | 72400 | 2.3 | | | |
| | 2.5 | 5200 | 558 | 72800 | 2.5 | | | |
| | 1.4 | 9770 | 1043 | 38800 | 0.80 | TR 138 / TRF78 | MY 90L4 | 166 |
| | 1.6 | 8290 | 888 | 52700 | 0.95 | TRF 138 / TRF78 | MY 90L4 | 166 |
| | 2.0 | 6500 | 699 | 56200 | 1.25 | | | |
| | 2.3 | 5640 | 609 | 57600 | 1.40 | | | |
| | 1.3 | 10200 | 1090 | 26100 | 0.80 | TR 138 / TRF78 | MY 90L4 | 166 |
| | 1.5 | 8940 | 951 | 49900 | 0.90 | TRF 138 / TRF78 | MY 90L4 | 166 |
| | 1.7 | 7750 | 831 | 53900 | 1.05 | | | |
| | 1.9 | 6770 | 730 | 55800 | 1.20 | | | |
| | 2.2 | 5800 | 629 | 57300 | 1.40 | | | |
| | 2.5 | 5230 | 560 | 58100 | 1.55 | | | |
| | 2.9 | 4530 | 490 | 59000 | 1.75 | | | |
| | 3.3 | 3950 | 428 | 59600 | 2.0 | | | |
| | 3.7 | 3560 | 381 | 59900 | 2.3 | | | |
| | 4.4 | 3020 | 323 | 60300 | 2.7 | | | |
| | 2.7 | 4900 | 528 | 18500 | 0.90 | TR 108 / TRF78 | MY 90L4 | 166 |
| | | | | | | TRF 108 / TRF78 | MY 90L4 | 166 |
| | 2.6 | 5030 | 544 | 10400 | 0.85 | TR 108 / TRF78 | MY 90L4 | 166 |
| | 2.9 | 4550 | 492 | 28100 | 0.95 | TRF 108 / TRF78 | MY 90L4 | 166 |
| | 3.4 | 3850 | 417 | 31700 | 1.10 | | | |
| | 3.8 | 3440 | 369 | 33400 | 1.25 | | | |
| | 4.4 | 3000 | 323 | 34900 | 1.45 | | | |
| | 3.0 | 4470 | 469 | 28500 | 0.95 | TR 108 / TRF78 | MY 90L4 | 166 |
| | | | | | | TRF 108 / TRF78 | MY 90L4 | 166 |
| | 4.2 | 3170 | 336 | 11300 | 0.95 | TR 98 / TRF58 | MY 90L4 | 166 |
| 4.8 | 2790 | 296 | 22400 | 1.10 | TRF 98 / TRF58 | MY 90L4 | 166 | |
| 5.7 | 2330 | 249 | 24900 | 1.30 | | | | |
| 6.0 | 2180 | 234 | 25600 | 1.40 | | | | |
| 6.8 | 1950 | 209 | 26600 | 1.55 | | | | |

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| 1.5 | 3.0 | 4710 | 229.95 | 26500 | 0.90 | TR 108 | MY 112M8 158 |
| | 3.5 | 4160 | 203.16 | 30200 | 1.05 | TRF 108 | MY 112M8 159 |
| | 4.1 | 3530 | 172.34 | 33100 | 1.20 | | |
| | 4.4 | 3250 | 158.68 | 34100 | 1.30 | | |
| | 3.7 | 3910 | 251.15 | 31400 | 1.10 | TR 108 | MY 100M6 158 |
| | 4.0 | 3580 | 229.95 | 32900 | 1.20 | TRF 108 | MY 100M6 159 |
| | 4.5 | 3160 | 203.16 | 34400 | 1.35 | | |
| | 5.3 | 2680 | 172.34 | 35900 | 1.60 | | |
| | 5.8 | 2470 | 158.68 | 36200 | 1.75 | | |
| | 6.5 | 2210 | 141.83 | 36500 | 1.95 | | |
| | 5.5 | 2600 | 255.71 | 23500 | 1.15 | TR 98 | MY 90L4 156 |
| | 5.8 | 2450 | 241.25 | 24300 | 1.20 | TRF 98 | MY 90L4 157 |
| | 6.5 | 2200 | 216.28 | 25600 | 1.35 | | |
| | 7.6 | 1890 | 186.30 | 26800 | 1.60 | | |
| | 8.3 | 1730 | 170.02 | 27300 | 1.75 | | |
| | 9.3 | 1530 | 150.78 | 27600 | 1.95 | | |
| | 11 | 1290 | 126.75 | 27900 | 2.3 | | |
| | 12 | 1180 | 116.48 | 28000 | 2.5 | | |
| | 14 | 1050 | 103.44 | 28200 | 2.9 | | |
| | 15 | 940 | 92.48 | 28300 | 3.2 | | |
| | 7.8 | 1850 | 181.77 | 11400 | 0.85 | TR 88 | MY 90L4 153 |
| | 9.1 | 1580 | 155.34 | 16700 | 1.00 | TRF 88 | MY 90L4 154 |
| | 9.9 | 1450 | 142.41 | 17600 | 1.05 | | |
| | 11 | 1270 | 124.97 | 18600 | 1.20 | | |
| | 12 | 1200 | 118.43* | 19000 | 1.30 | | |
| | 14 | 1050 | 103.65 | 19600 | 1.45 | | |
| | 15 | 950 | 93.38 | 20000 | 1.65 | | |
| | 17 | 830 | 81.92 | 20000 | 1.85 | | |
| | 19 | 735 | 72.57 | 20000 | 2.1 | | |
| | 22 | 645 | 63.68* | 20000 | 2.4 | | |
| | 23 | 615 | 60.35* | 20000 | 2.5 | | |
| | 27 | 535 | 52.82 | 20000 | 2.9 | | |
| | 30 | 485 | 47.58 | 20000 | 3.2 | | |
| | 34 | 425 | 41.74 | 20000 | 3.7 | | |
| | 38 | 375 | 36.84* | 19600 | 4.1 | | |
| | 15 | 940 | 92.97 | 8500 | 0.85 | TR 78 | MY 90L4 150 |
| | 17 | 830 | 81.80 | 9820 | 1.00 | TRF 78 | MY 90L4 151 |
| | 18 | 785 | 77.24 | 10200 | 1.05 | | |
| | 21 | 670 | 65.77 | 11100 | 1.25 | | |
| | 24 | 585 | 57.68 | 11600 | 1.40 | | |
| | 27 | 530 | 52.07 | 11900 | 1.55 | | |
| | 31 | 465 | 45.81 | 12200 | 1.75 | | |
| | 33 | 440 | 43.26 | 12300 | 1.85 | | |
| | 38 | 375 | 36.83 | 12600 | 2.2 | | |
| | 42 | 340 | 33.47 | 12700 | 2.4 | | |
| | 49 | 295 | 29.00 | 12500 | 2.8 | | |
| | 56 | 255 | 25.23 | 12000 | 3.0 | | |
| | 60 | 240 | 23.37 | 11800 | 3.5 | TR 78 | MY 90L4 150 |
| | 66 | 220 | 21.43 | 11500 | 3.8 | TRF 78 | MY 90L4 151 |
| | 75 | 191 | 18.80 | 11000 | 4.1 | | |
| 23 | 620 | 61.26 | 7280 | 0.95 | TR 68 | MY 90L4 147 | |
| 25 | 580 | 56.89 | 7810 | 1.05 | TRF 68 | MY 90L4 148 | |
| 27 | 525 | 51.56 | 8370 | 1.15 | | | |
| 30 | 470 | 46.29 | 8830 | 1.30 | | | |
| 35 | 405 | 39.88* | 9300 | 1.45 | | | |
| 38 | 380 | 37.50 | 9460 | 1.50 | | | |
| 44 | 330 | 32.27 | 9750 | 1.65 | | | |
| 49 | 295 | 28.83 | 9920 | 1.80 | | | |
| 50 | 285 | 28.13 | 9950 | 1.90 | TR 68 | MY 90L4 147 | |
| 53 | 270 | 26.72 | 9850 | 2.0 | TRF 68 | MY 90L4 148 | |

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| 1.5 | 60 | 240 | 23.44 | 9500 | 2.4 | TR | 68 | MY 90L4 | 147 |
| | 71 | 200 | 19.89 | 9070 | 3.0 | | | | TRF |
| | 79 | 182 | 17.95 | 8810 | 3.2 | | | | |
| | 27 | 540 | 53.22 | 5140 | 0.85 | TR | 58 | MY 90L4 | 144 |
| | 29 | 490 | 48.23 | 6010 | 0.90 | | | | TRF |
| | 33 | 440 | 43.30 | 5920 | 1.00 | | | | |
| | 38 | 380 | 37.30* | 5770 | 1.20 | | | | |
| | 40 | 355 | 35.07 | 5710 | 1.25 | | | | |
| | 47 | 305 | 30.18 | 5540 | 1.45 | | | | |
| | 52 | 275 | 26.97 | 5420 | 1.65 | | | | |
| | 54 | 265 | 26.31 | 5390 | 1.70 | TR | 58 | MY 90L4 | 144 |
| | 56 | 255 | 24.99* | 5330 | 1.75 | | | | TRF |
| | 64 | 225 | 21.93 | 5170 | 2.0 | | | | |
| | 76 | 189 | 18.60* | 4980 | 2.4 | | | | |
| | 84 | 171 | 16.79 | 4850 | 2.6 | | | | |
| | 95 | 150 | 14.77* | 4700 | 2.9 | | | | |
| | 101 | 142 | 13.95* | 4630 | 3.0 | | | | |
| | 119 | 121 | 11.88 | 4440 | 3.4 | | | | |
| | 38 | 375 | 36.93 | 2380 | 0.80 | TR | 48 | MY 90L4 | 141 |
| | 41 | 355 | 34.73 | 3840 | 0.85 | | | | TRF |
| | 47 | 305 | 29.88 | 4220 | 1.00 | | | | |
| | 53 | 270 | 26.70 | 4140 | 1.10 | | | | |
| | 60 | 240 | 23.59 | 4050 | 1.25 | | | | |
| | 61 | 235 | 23.28 | 4040 | 1.25 | TR | 48 | MY 90L4 | 141 |
| | 65 | 220 | 21.81 | 3990 | 1.35 | | | | TRF |
| | 73 | 196 | 19.27 | 3890 | 1.50 | | | | |
| | 79 | 182 | 17.89 | 3830 | 1.60 | | | | |
| | 87 | 165 | 16.22 | 3740 | 1.65 | | | | |
| | 97 | 148 | 14.56 | 3650 | 1.80 | | | | |
| | 112 | 127 | 12.54 | 3520 | 1.95 | | | | |
| | 120 | 120 | 11.79 | 3470 | 2.1 | | | | |
| | 139 | 103 | 10.15 | 3340 | 2.2 | | | | |
| | 155 | 92 | 9.07 | 3240 | 2.4 | | | | |
| | 176 | 81 | 8.01 | 3140 | 2.5 | | | | |
| | 182 | 79 | 7.76* | 3060 | 2.1 | | | | |
| | 203 | 71 | 6.96 | 2980 | 2.3 | | | | |
| | 235 | 61 | 6.00 | 2860 | 2.6 | | | | |
| | 250 | 57 | 5.64* | 2810 | 2.7 | | | | |
| | 291 | 49 | 4.85 | 2700 | 3.0 | | | | |
| | 325 | 44 | 4.34 | 2610 | 3.3 | | | | |
| | 368 | 39 | 3.83 | 2520 | 3.7 | | | | |
| | 73 | 196 | 19.31 | 2660 | 1.00 | TR | 38 | MY 90L4 | 138 |
| | 78 | 183 | 18.05 | 2840 | 1.10 | | | | TRF |
| | 90 | 159 | 15.60 | 3160 | 1.25 | | | | |
| | 106 | 135 | 13.25 | 3350 | 1.40 | | | | |
| | 119 | 120 | 11.83 | 3270 | 1.50 | | | | |
| | 140 | 103 | 10.11 | 3160 | 1.65 | | | | |
| | 149 | 96 | 9.47 | 3110 | 1.75 | | | | |
| | 177 | 81 | 7.97 | 2980 | 1.95 | | | | |
| | 211 | 68 | 6.67 | 2820 | 2.1 | | | | |
| | 249 | 58 | 5.67 | 2710 | 2.5 | | | | |
| | 279 | 51 | 5.06 | 2630 | 2.6 | | | | |
| | 326 | 44 | 4.32 | 2520 | 2.9 | | | | |
| | 348 | 41 | 4.05 | 2470 | 3.0 | | | | |
| | 414 | 35 | 3.41 | 2360 | 3.2 | | | | |
| | 211 | 68 | 13.25 | 2850 | 2.8 | TR | 38 | MY 90S2 | 138 |
| | 237 | 61 | 11.83 | 2770 | 3.0 | | | | TRF |
| | 277 | 52 | 10.11 | 2650 | 3.3 | | | | |
| | 296 | 48 | 9.47 | 2610 | 3.5 | | | | |
| | 351 | 41 | 7.97 | 2480 | 3.8 | | | | |

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| 1.5 | 90 | 159 | 15.63 | 1700 | 0.80 | TR | 28 | MY 90L4 | 135 |
| | 106 | 135 | 13.28* | 2020 | 0.95 | TRF | 28 | MY 90L4 | 136 |
| | 119 | 121 | 11.86 | 2080 | 1.05 | | | | |
| | 139 | 103 | 10.13 | 2030 | 1.20 | | | | |
| | 173 | 83 | 8.16 | 1880 | 1.40 | | | | |
| | 185 | 78 | 7.63* | 1860 | 1.45 | | | | |
| | 214 | 67 | 6.59 | 1810 | 1.60 | | | | |
| | 252 | 57 | 5.60* | 1750 | 1.75 | | | | |
| | 282 | 51 | 5.00* | 1710 | 1.85 | | | | |
| | 330 | 43 | 4.27 | 1650 | 2.0 | | | | |
| | 353 | 41 | 4.00* | 1630 | 2.1 | | | | |
| | 418 | 34 | 3.37 | 1560 | 2.3 | | | | |
| | 236 | 61 | 11.86 | 1820 | 2.1 | TR | 28 | MY 90S2 | 135 |
| | 276 | 52 | 10.13 | 1760 | 2.4 | TRF | 28 | MY 90S2 | 136 |
| | 343 | 42 | 8.16 | 1640 | 2.8 | | | | |
| | 367 | 39 | 7.63* | 1610 | 2.9 | | | | |
| | 425 | 34 | 6.59 | 1550 | 3.2 | | | | |
| | 500 | 29 | 5.60* | 1490 | 3.5 | | | | |
| | 560 | 26 | 5.00* | 1450 | 3.7 | | | | |
| | 656 | 22 | 4.27 | 1390 | 4.0 | | | | |
| | 700 | 21 | 4.00* | 1360 | 4.2 | | | | |
| | 831 | 17 | 3.37 | 1300 | 4.6 | | | | |
| | 250 | 57 | 5.63 | 5580 | 1.90 | TRX | 78 | MY 90L4 | 124 |
| | 264 | 54 | 5.35* | 5490 | 1.90 | TRXF | 78 | MY 90L4 | 125 |
| | 298 | 48 | 4.73 | 5300 | 2.6 | | | | |
| | 349 | 41 | 4.04* | 5050 | 3.5 | | | | |
| | 381 | 38 | 3.70 | 4920 | 4.1 | | | | |
| | 434 | 33 | 3.25* | 4720 | 5.5 | | | | |
| | 458 | 31 | 3.08* | 4650 | 6.2 | | | | |
| | 523 | 27 | 2.70 | 4460 | 7.9 | | | | |
| | 581 | 25 | 2.43 | 4310 | 8.7 | | | | |
| | 312 | 46 | 4.53 | 3570 | 1.80 | TRX | 68 | MY 90L4 | 122 |
| | 328 | 44 | 4.30* | 3520 | 1.85 | TRXF | 68 | MY 90L4 | 123 |
| | 374 | 38 | 3.77 | 3390 | 2.3 | | | | |
| | 441 | 33 | 3.20* | 3230 | 3.1 | | | | |
| | 488 | 29 | 2.89 | 3140 | 3.6 | | | | |
| | 555 | 26 | 2.54 | 3020 | 4.6 | | | | |
| | 588 | 24 | 2.40* | 2970 | 5.0 | | | | |
| | 690 | 21 | 2.04 | 2820 | 6.4 | | | | |
| | 759 | 19 | 1.86 | 2740 | 6.7 | | | | |
| | 876 | 16 | 1.61 | 2620 | 7.0 | | | | |
| 1005 | 14 | 1.40* | 2510 | 7.3 | | | | | |
| 372 | 39 | 3.79 | 2700 | 1.80 | TRX | 58 | MY 90L4 | 120 | |
| 397 | 36 | 3.55* | 2650 | 1.90 | TRXF | 58 | MY 90L4 | 121 | |
| 450 | 32 | 3.14 | 2560 | 2.0 | | | | | |
| 484 | 30 | 2.91 | 2510 | 2.3 | | | | | |
| 534 | 27 | 2.64* | 2440 | 2.6 | | | | | |
| 595 | 24 | 2.37 | 2360 | 2.9 | | | | | |
| 691 | 21 | 2.04 | 2260 | 3.3 | | | | | |
| 734 | 20 | 1.92* | 2220 | 3.5 | | | | | |
| 853 | 17 | 1.65 | 2120 | 4.1 | | | | | |
| 955 | 15 | 1.48 | 2050 | 4.5 | | | | | |
| 1080 | 13 | 1.30 | 1980 | 4.7 | | | | | |
| 2.2 | 0.84 | 22600 | 1670 | 120000 | 0.80 | TR | 168 / TRF98 | MY 100M4 | 166 |
| | 0.98 | 19700 | 1438 | 120000 | 0.90 | TRF | 168 / TRF98 | MY 100M4 | 166 |
| | 1.1 | 17500 | 1279 | 120000 | 1.05 | | | | |
| | 1.3 | 15300 | 1123 | 120000 | 1.15 | | | | |
| | 1.4 | 13600 | 999 | 120000 | 1.30 | | | | |
| | 1.6 | 11800 | 861 | 120000 | 1.55 | | | | |
| | 1.9 | 10400 | 760 | 120000 | 1.75 | | | | |
| | 2.1 | 8730 | 656 | 120000 | 2.1 | | | | |

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| 2.2 | 2.6 | 7200 | 533 | 71100 | 1.80 | TR 148 / TRF88 | MY 100M4 166 |
| | 3.1 | 6190 | 462 | 72100 | 2.1 | TRF 148 / TRF88 | MY 100M4 166 |
| | 3.3 | 5820 | 426 | 72400 | 2.2 | | |
| | 3.8 | 5030 | 368 | 72900 | 2.6 | | |
| | 4.3 | 4450 | 326 | 73300 | 2.9 | | |
| | 1.2 | 16000 | 1166 | 36000 | 0.80 | TR 148 / TRF78 | MY 100M4 166 |
| | 1.4 | 14100 | 1029 | 60300 | 0.90 | TRF 148 / TRF78 | MY 100M4 166 |
| | 1.6 | 12200 | 889 | 64200 | 1.05 | | |
| | 1.8 | 10800 | 784 | 66600 | 1.20 | | |
| | 2.0 | 9520 | 695 | 68500 | 1.35 | | |
| | 2.3 | 8550 | 619 | 69700 | 1.50 | | |
| | 2.5 | 7690 | 558 | 70600 | 1.70 | | |
| | 2.9 | 6730 | 489 | 71600 | 1.95 | | |
| | 2.0 | 9620 | 699 | 41800 | 0.85 | TR 138 / TRF78 | MY 100M4 166 |
| | 2.3 | 8350 | 609 | 52500 | 0.95 | TRF 138 / TRF78 | MY 100M4 166 |
| | 1.9 | 10000 | 730 | 33300 | 0.80 | TR 138 / TRF78 | MY 100M4 166 |
| | 2.2 | 8610 | 629 | 51400 | 0.95 | TRF 138 / TRF78 | MY 100M4 166 |
| | 2.5 | 7730 | 560 | 54000 | 1.05 | | |
| | 2.9 | 6720 | 490 | 55900 | 1.20 | | |
| | 3.3 | 5860 | 428 | 57200 | 1.35 | | |
| | 3.7 | 5260 | 381 | 58100 | 1.50 | | |
| | 4.4 | 4460 | 323 | 59000 | 1.80 | | |
| | 4.8 | 4020 | 291 | 59500 | 2.0 | | |
| | 5.5 | 3510 | 255 | 59900 | 2.3 | | |
| | 6.3 | 3070 | 223 | 60300 | 2.6 | | |
| | 4.4 | 4450 | 323 | 28600 | 0.95 | TR 108 / TRF78 | MY 100M4 166 |
| | 4.9 | 3920 | 285 | 31400 | 1.10 | TRF 108 / TRF78 | MY 100M4 166 |
| | 5.6 | 3470 | 253 | 33300 | 1.25 | | |
| | 6.6 | 2940 | 214 | 35100 | 1.45 | | |
| | 4.4 | 4540 | 325 | 28100 | 0.95 | TR 108 / TRF78 | MY 100M4 166 |
| | | | | | | TRF 108 / TRF78 | MY 100M4 166 |
| | 6.8 | 2880 | 209 | 21800 | 1.05 | TR 98 / TRF58 | MY 100M4 166 |
| | | | | | | TRF 98 / TRF58 | MY 100M4 166 |
| | 3.1 | 6680 | 222.60* | 55900 | 1.20 | TR 138 | MY 132S8 160 |
| | 3.7 | 5660 | 188.45 | 57500 | 1.40 | TRF 138 | MY 132S8 161 |
| | 4.0 | 5230 | 174.40* | 58100 | 1.55 | | |
| | 4.5 | 4690 | 156.31 | 58800 | 1.70 | | |
| | 5.0 | 4240 | 141.12* | 59300 | 1.90 | | |
| | 5.5 | 3850 | 128.18 | 59600 | 2.1 | TR 138 | MY 132S8 160 |
| | 6.2 | 3410 | 113.72 | 60000 | 2.3 | TRF 138 | MY 132S8 161 |
| | 6.8 | 3100 | 103.20* | 60300 | 2.6 | | |
| | 4.6 | 4540 | 203.16 | 28100 | 0.95 | TR 108 | MY 112M6 158 |
| | 5.5 | 3850 | 172.34 | 31700 | 1.10 | TRF 108 | MY 112M6 159 |
| | 5.9 | 3550 | 158.68 | 33000 | 1.20 | | |
| | 6.6 | 3170 | 141.83 | 34400 | 1.35 | | |
| | 5.6 | 3740 | 251.15 | 32200 | 1.15 | TR 108 | MY 100M4 158 |
| | 6.1 | 3430 | 229.95 | 33500 | 1.25 | TRF 108 | MY 100M4 159 |
| | 6.9 | 3030 | 203.16 | 34900 | 1.40 | | |
| | 8.2 | 2570 | 172.34 | 36100 | 1.65 | TR 108 | MY 100M4 158 |
| | 8.9 | 2360 | 158.68 | 36300 | 1.80 | TRF 108 | MY 100M4 159 |
| | 9.9 | 2110 | 141.83 | 36600 | 2.0 | | |
| | 11 | 1900 | 127.68 | 36900 | 2.3 | | |
| | 12 | 1720 | 115.63 | 37000 | 2.5 | | |
| | 14 | 1530 | 102.53 | 37200 | 2.8 | | |
| | 15 | 1380 | 92.70 | 37300 | 3.1 | | |
| | 6.5 | 3220 | 216.28 | 7030 | 0.95 | TR 98 | MY 100M4 156 |
| | 7.6 | 2780 | 186.30 | 22500 | 1.10 | TRF 98 | MY 100M4 157 |
| | 8.3 | 2530 | 170.02 | 23900 | 1.20 | | |
| | 9.3 | 2250 | 150.78 | 25300 | 1.35 | TR 98 | MY 100M4 156 |
| | 11 | 1890 | 126.75 | 26800 | 1.60 | TRF 98 | MY 100M4 157 |
| | 12 | 1740 | 116.48 | 27300 | 1.75 | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | | | | Page |
|------------------|------------------|------------------|---------|-----------------|-------|--|----------|----------|-----|------|
| 2.2 | 14 | 1540 | 103.44 | 27600 | 1.95 | TR | 98 | MY 100M4 | | 156 |
| | 15 | 1380 | 92.48 | 27800 | 2.2 | TRF | 98 | MY 100M4 | | 157 |
| | 17 | 1240 | 83.15 | 28000 | 2.4 | | | | | |
| | 20 | 1080 | 72.17 | 28200 | 2.8 | | | | | |
| | 22 | 970 | 65.21 | 27700 | 3.1 | | | | | |
| | 24 | 890 | 59.92 | 27000 | 3.4 | | | | | |
| | 27 | 795 | 53.21 | 26100 | 3.8 | | | | | |
| | 30 | 710 | 47.58 | 25300 | 4.2 | | | | | |
| | 11 | 1860 | 124.97 | 10100 | 0.85 | TR | 88 | MY 100M4 | | 153 |
| | 12 | 1760 | 118.43* | 15200 | 0.90 | TRF | 88 | MY 100M4 | | 154 |
| | 14 | 1540 | 103.65 | 17000 | 1.00 | | | | | |
| | 15 | 1390 | 93.38 | 17900 | 1.10 | | | | | |
| | 17 | 1220 | 81.92 | 18900 | 1.25 | | | | | |
| | 19 | 1080 | 72.57 | 19500 | 1.45 | TR | 88 | MY 100M4 | | 153 |
| | 22 | 950 | 63.68* | 20000 | 1.65 | TRF | 88 | MY 100M4 | | 154 |
| | 23 | 900 | 60.35* | 20000 | 1.70 | | | | | |
| | 27 | 785 | 52.82 | 20000 | 1.95 | | | | | |
| | 30 | 710 | 47.58 | 20000 | 2.2 | | | | | |
| | 34 | 620 | 41.74 | 19900 | 2.5 | | | | | |
| | 38 | 550 | 36.84* | 19200 | 2.8 | | | | | |
| | 43 | 485 | 32.66* | 18500 | 3.2 | | | | | |
| | 41 | 515 | 34.40* | 18800 | 2.9 | TR | 88 | MY 100M4 | | 153 |
| | 45 | 470 | 31.40 | 18300 | 3.3 | TRF | 88 | MY 100M4 | | 154 |
| | 51 | 415 | 27.84* | 17700 | 3.7 | | | | | |
| | 60 | 350 | 23.40 | 16800 | 4.5 | | | | | |
| | 66 | 320 | 21.51 | 16400 | 4.7 | | | | | |
| | 21 | 980 | 65.77 | 5470 | 0.85 | TR | 78 | MY 100M4 | | 150 |
| | 24 | 860 | 57.68 | 9540 | 0.95 | TRF | 78 | MY 100M4 | | 151 |
| | 27 | 775 | 52.07 | 10300 | 1.05 | | | | | |
| | 31 | 685 | 45.81 | 11000 | 1.20 | | | | | |
| | 33 | 645 | 43.26 | 11300 | 1.25 | | | | | |
| | 38 | 550 | 36.83 | 11800 | 1.50 | | | | | |
| | 42 | 500 | 33.47 | 12100 | 1.65 | | | | | |
| | 49 | 430 | 29.00 | 12100 | 1.90 | | | | | |
| | 56 | 375 | 25.23 | 11700 | 2.1 | | | | | |
| | 60 | 350 | 23.37 | 11400 | 2.4 | TR | 78 | MY 100M4 | | 150 |
| | 66 | 320 | 21.43 | 11200 | 2.6 | TRF | 78 | MY 100M4 | | 151 |
| | 75 | 280 | 18.80 | 10800 | 2.8 | | | | | |
| | 79 | 265 | 17.82* | 10600 | 2.9 | | | | | |
| | 90 | 230 | 15.60 | 10200 | 3.2 | | | | | |
| | 100 | 210 | 14.05 | 9910 | 3.4 | | | | | |
| | 35 | 595 | 39.88* | 7630 | 1.00 | TR | 68 | MY 100M4 | | 147 |
| | 38 | 560 | 37.50 | 8020 | 1.00 | TRF | 68 | MY 100M4 | | 148 |
| | 44 | 480 | 32.27 | 8750 | 1.10 | | | | | |
| | 49 | 430 | 28.83 | 9140 | 1.20 | | | | | |
| | 60 | 350 | 23.44 | 9140 | 1.60 | TR | 68 | MY 100M4 | | 147 |
| 71 | 295 | 19.89 | 8760 | 2.0 | TRF | 68 | MY 100M4 | | 148 | |
| 79 | 270 | 17.95 | 8530 | 2.2 | | | | | | |
| 89 | 235 | 15.79 | 8240 | 2.4 | | | | | | |
| 95 | 220 | 14.91 | 8110 | 2.5 | | | | | | |
| 111 | 189 | 12.70 | 7760 | 2.8 | | | | | | |
| 122 | 172 | 11.54 | 7560 | 2.9 | | | | | | |
| 141 | 149 | 10.00 | 7250 | 3.2 | | | | | | |
| 162 | 130 | 8.70* | 6960 | 3.4 | | | | | | |
| 181 | 116 | 7.79 | 6760 | 3.3 | | | | | | |
| 38 | 555 | 37.30* | 4490 | 0.80 | TR | 58 | MY 100M4 | | 144 | |
| 40 | 525 | 35.07 | 5110 | 0.85 | TRF | 58 | MY 100M4 | | 145 | |
| 47 | 450 | 30.18 | 5030 | 1.00 | | | | | | |
| 52 | 400 | 26.97 | 4960 | 1.10 | | | | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | | | Page |
|------------------|------------------|------------------|--------|-----------------|-------|--|---------|----------|------|
| 2.2 | 64 | 325 | 21.93 | 4800 | 1.40 | TR | 58 | MY 100M4 | 144 |
| | 76 | 275 | 18.60* | 4660 | 1.60 | | | | TRF |
| | 84 | 250 | 16.79 | 4570 | 1.80 | | | | |
| | 95 | 220 | 14.77* | 4450 | 2.0 | | | | |
| | 101 | 210 | 13.95* | 4390 | 2.1 | | | | |
| | 119 | 177 | 11.88 | 4230 | 2.3 | | | | |
| | 131 | 161 | 10.79 | 4140 | 2.4 | | | | |
| | 151 | 139 | 9.35 | 4000 | 2.7 | | | | |
| | 156 | 135 | 9.06 | 3980 | 2.8 | | | | |
| | 177 | 119 | 7.97 | 3850 | 3.0 | | | | |
| | 107 | 197 | 26.31 | 4340 | 2.3 | TR | 58 | MY 90L2 | 144 |
| | 112 | 187 | 24.99* | 4290 | 2.4 | | | | TRF |
| | 128 | 164 | 21.93 | 4160 | 2.8 | | | | |
| | 151 | 139 | 18.60* | 3990 | 3.2 | | | | |
| | 167 | 126 | 16.79 | 3890 | 3.6 | | | | |
| | 190 | 111 | 14.77* | 3760 | 3.9 | | | | |
| | 201 | 104 | 13.95* | 3710 | 4.1 | | | | |
| | 73 | 285 | 19.27 | 3550 | 1.05 | TR | 48 | MY 100M4 | 141 |
| | 87 | 240 | 16.22 | 3460 | 1.15 | | | | TRF |
| | 97 | 215 | 14.56 | 3400 | 1.20 | | | | |
| | 112 | 187 | 12.54 | 3310 | 1.35 | | | | |
| | 120 | 176 | 11.79 | 3270 | 1.40 | | | | |
| | 139 | 151 | 10.15 | 3160 | 1.50 | | | | |
| | 155 | 135 | 9.07 | 3090 | 1.65 | | | | |
| | 176 | 119 | 8.01 | 3000 | 1.70 | | | | |
| | 182 | 116 | 7.76* | 2910 | 1.40 | | | | |
| | 203 | 104 | 6.96 | 2840 | 1.55 | | | | |
| | 235 | 89 | 6.00 | 2740 | 1.75 | | | | |
| | 250 | 84 | 5.64* | 2700 | 1.85 | | | | |
| | 291 | 72 | 4.85 | 2600 | 2.1 | | | | |
| | 325 | 65 | 4.34 | 2530 | 2.3 | | | | |
| | 368 | 57 | 3.83 | 2440 | 2.5 | | | | |
| | 121 | 174 | 23.28 | 3260 | 1.70 | TR | 48 | MY 90L2 | 141 |
| | 129 | 163 | 21.81 | 3220 | 1.85 | | | | TRF |
| | 146 | 144 | 19.27 | 3130 | 2.1 | | | | |
| | 157 | 134 | 17.89 | 3080 | 2.2 | | | | |
| | 173 | 121 | 16.22 | 3010 | 2.3 | | | | |
| | 193 | 109 | 14.56 | 2930 | 2.4 | | | | |
| | 224 | 94 | 12.54 | 2830 | 2.7 | | | | |
| | 238 | 88 | 11.79 | 2780 | 2.8 | | | | |
| | 277 | 76 | 10.15 | 2680 | 3.0 | | | | |
| | 310 | 68 | 9.07 | 2600 | 3.2 | | | | |
| | 351 | 60 | 8.01 | 2510 | 3.4 | | | | |
| | 90 | 230 | 15.60 | 1070 | 0.85 | TR | 38 | MY 100M4 | 138 |
| | 106 | 198 | 13.25 | 1660 | 0.95 | | | | TRF |
| | 119 | 176 | 11.83 | 1990 | 1.05 | | | | |
| | 140 | 151 | 10.11 | 2360 | 1.15 | | | | |
| 149 | 141 | 9.47 | 2480 | 1.20 | | | | | |
| 177 | 119 | 7.97 | 2750 | 1.30 | | | | | |
| 211 | 99 | 6.67 | 2470 | 1.45 | | | | | |
| 249 | 84 | 5.67 | 2570 | 1.70 | | | | | |
| 279 | 75 | 5.06 | 2500 | 1.80 | | | | | |
| 326 | 64 | 4.32 | 2410 | 1.95 | | | | | |
| 348 | 60 | 4.05 | 2370 | 2.0 | | | | | |
| 414 | 51 | 3.41 | 2270 | 2.2 | | | | | |
| 146 | 144 | 19.31 | 2440 | 1.40 | TR | 38 | MY 90L2 | 138 | |
| 156 | 135 | 18.05 | 2560 | 1.50 | | | | TRF | 38 |
| 180 | 117 | 15.60 | 2780 | 1.70 | | | | | |
| 212 | 99 | 13.25 | 2700 | 1.90 | | | | | |
| 237 | 89 | 11.83 | 2630 | 2.1 | | | | | |

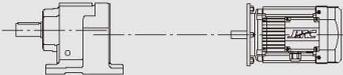
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page | | |
|------------------|------------------|------------------|--------|-----------------|--------|--|-----------------|----------|-----|
| 2.2 | 278 | 76 | 10.11 | 2540 | 2.3 | TR 38 | MY 90L2 | 138 | |
| | 297 | 71 | 9.47 | 2500 | 2.4 | TRF 38 | MY 90L2 | 139 | |
| | 352 | 60 | 7.97 | 2390 | 2.6 | | | | |
| | 421 | 50 | 6.67 | 2260 | 2.9 | | | | |
| | 496 | 42 | 5.67 | 2170 | 3.4 | | | | |
| | 555 | 38 | 5.06 | 2100 | 3.6 | | | | |
| | 650 | 32 | 4.32 | 2010 | 3.9 | | | | |
| | 694 | 30 | 4.05 | 1980 | 4.0 | | | | |
| | 824 | 26 | 3.41 | 1880 | 4.4 | | | | |
| | 139 | 151 | 10.13 | 1120 | 0.80 | TR 28 | MY 100M4 | 135 | |
| | 214 | 98 | 6.59 | 1130 | 1.10 | TRF 28 | MY 100M4 | 136 | |
| | 252 | 83 | 5.60* | 1390 | 1.20 | | | | |
| | 282 | 75 | 5.00* | 1540 | 1.30 | | | | |
| | 330 | 64 | 4.27 | 1540 | 1.35 | | | | |
| | 353 | 60 | 4.00* | 1520 | 1.45 | | | | |
| | 418 | 50 | 3.37 | 1470 | 1.55 | | | | |
| | 212 | 99 | 13.28* | 1710 | 1.30 | TR 28 | MY 90L2 | 135 | |
| | 237 | 89 | 11.86 | 1680 | 1.45 | TRF 28 | MY 90L2 | 136 | |
| | 277 | 76 | 10.13 | 1640 | 1.60 | | | | |
| | 344 | 61 | 8.16 | 1520 | 1.90 | | | | |
| | 369 | 57 | 7.63* | 1500 | 1.95 | | | | |
| | 426 | 49 | 6.59 | 1460 | 2.2 | | | | |
| | 502 | 42 | 5.60* | 1410 | 2.4 | | | | |
| | 562 | 37 | 5.00* | 1380 | 2.5 | | | | |
| | 658 | 32 | 4.27 | 1330 | 2.7 | | | | |
| | 703 | 30 | 4.00* | 1310 | 2.8 | | | | |
| | 834 | 25 | 3.37 | 1250 | 3.1 | | | | |
| | 298 | 70 | 4.73 | 5180 | 1.75 | TRX 78 | MY 100M4 | 124 | |
| | 349 | 60 | 4.04* | 4950 | 2.4 | TRXF 78 | MY 100M4 | 125 | |
| | 381 | 55 | 3.70 | 4820 | 2.8 | | | | |
| | 434 | 48 | 3.25* | 4640 | 3.8 | | | | |
| | 458 | 46 | 3.08* | 4560 | 4.2 | | | | |
| | 523 | 40 | 2.70 | 4380 | 5.4 | | | | |
| | 581 | 36 | 2.43 | 4250 | 5.9 | | | | |
| | 662 | 32 | 2.13 | 4080 | 6.3 | | | | |
| | 750 | 28 | 1.88* | 3920 | 6.7 | | | | |
| | 846 | 25 | 1.67 | 3780 | 7.0 | | | | |
| | 991 | 21 | 1.42 | 3590 | 7.3 | | | | |
| | 374 | 56 | 3.77 | 3280 | 1.55 | TRX 68 | MY 100M4 | 122 | |
| | 441 | 48 | 3.20* | 3130 | 2.1 | TRXF 68 | MY 100M4 | 123 | |
| | 488 | 43 | 2.89 | 3050 | 2.5 | | | | |
| | 555 | 38 | 2.54 | 2940 | 3.1 | | | | |
| | 588 | 36 | 2.40* | 2890 | 3.4 | | | | |
| | 690 | 30 | 2.04 | 2760 | 4.4 | | | | |
| | 759 | 28 | 1.86 | 2680 | 4.6 | | | | |
| | 876 | 24 | 1.61 | 2570 | 4.8 | | | | |
| | 1005 | 21 | 1.40* | 2460 | 5.0 | | | | |
| | 450 | 47 | 3.14 | 2450 | 1.40 | TRX 58 | MY 100M4 | 120 | |
| | 534 | 39 | 2.64* | 2340 | 1.75 | TRXF 58 | MY 100M4 | 121 | |
| | 595 | 35 | 2.37 | 2280 | 1.95 | | | | |
| | 691 | 30 | 2.04 | 2190 | 2.3 | | | | |
| | 734 | 29 | 1.92* | 2150 | 2.4 | | | | |
| | 853 | 25 | 1.65 | 2060 | 2.8 | | | | |
| | 955 | 22 | 1.48 | 1990 | 3.1 | | | | |
| | 1080 | 19 | 1.30 | 1930 | 3.3 | | | | |
| | 3 | 1.2 | 21200 | 1123 | 120000 | 0.85 | TR 168 / TRF98 | MY 100L4 | 166 |
| | | 1.4 | 18900 | 999 | 120000 | 0.95 | TRF 168 / TRF98 | MY 100L4 | 166 |
| | | 1.6 | 16300 | 861 | 120000 | 1.10 | | | |
| | | 1.8 | 14400 | 760 | 120000 | 1.25 | | | |
| | | 2.1 | 12200 | 656 | 120000 | 1.50 | | | |
| | | 2.8 | 9330 | 503 | 120000 | 1.95 | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
|------------------|------------------|------------------|---------|-----------------|---------|--|--------------|
| 3 | 2.6 | 9990 | 533 | 67800 | 1.30 | TR 148 / TRF88 | MY 100L4 166 |
| | 3.0 | 8610 | 462 | 69600 | 1.50 | TRF 148 / TRF88 | MY 100L4 166 |
| | 3.3 | 8060 | 426 | 70200 | 1.60 | | |
| | 3.8 | 6960 | 368 | 71400 | 1.85 | | |
| | 4.3 | 6150 | 326 | 72100 | 2.1 | | |
| | 5.0 | 5230 | 280 | 72800 | 2.5 | | |
| | 1.6 | 16900 | 889 | 21900 | 0.75 | TR 148 / TRF78 | MY 100L4 166 |
| | 1.8 | 14900 | 784 | 52000 | 0.85 | TRF 148 / TRF78 | MY 100L4 166 |
| | 2.0 | 13200 | 695 | 62300 | 1.00 | | |
| | 2.3 | 11800 | 619 | 64900 | 1.10 | | |
| | 2.5 | 10600 | 558 | 66900 | 1.20 | | |
| | 2.9 | 9280 | 490 | 48100 | 0.85 | TR 138 / TRF78 | MY 100L4 166 |
| | 3.3 | 8100 | 428 | 53200 | 1.00 | TRF 138 / TRF78 | MY 100L4 166 |
| | 3.7 | 7260 | 381 | 54900 | 1.10 | | |
| | 4.3 | 6160 | 323 | 56800 | 1.30 | | |
| | 4.8 | 5540 | 291 | 57700 | 1.45 | | |
| | 5.5 | 4840 | 255 | 58600 | 1.65 | | |
| | 6.3 | 4240 | 223 | 59300 | 1.90 | | |
| | 2.7 | 9990 | 517 | 34100 | 0.80 | TR 138 / TRF78 | MY 100L4 166 |
| | 3.1 | 8760 | 453 | 50700 | 0.90 | TRF 138 / TRF78 | MY 100L4 166 |
| | 5.5 | 4790 | 253 | 23500 | 0.90 | TR 108 / TRF78 | MY 100L4 166 |
| | 6.5 | 4060 | 214 | 30700 | 1.05 | TRF 108 / TRF78 | MY 100L4 166 |
| | 7.5 | 3550 | 187 | 33000 | 1.20 | | |
| | 5.5 | 4930 | 256 | 17400 | 0.85 | TR 108 / TRF78 | MY 100L4 166 |
| | | | | | | TRF 108 / TRF78 | MY 100L4 166 |
| | 3.2 | 8860 | 222.60* | 50300 | 0.90 | TR 138 | MY 132M8 160 |
| | 3.8 | 7500 | 188.45 | 54400 | 1.05 | TRF 138 | MY 132M8 161 |
| | 4.1 | 6940 | 174.40* | 55500 | 1.15 | | |
| | 4.6 | 6220 | 156.31 | 56700 | 1.30 | | |
| | 5.1 | 5620 | 141.12* | 57600 | 1.40 | | |
| | 5.6 | 5100 | 128.18 | 58300 | 1.55 | TR 138 | MY 132M8 160 |
| | 6.3 | 4520 | 113.72 | 59000 | 1.75 | TRF 138 | MY 132M8 161 |
| | 7.0 | 4110 | 103.20* | 59400 | 1.95 | | |
| | 8.1 | 3530 | 88.70* | 59900 | 2.3 | | |
| | 4.2 | 6780 | 222.60* | 55800 | 1.20 | TR 138 | MY 132S6 160 |
| | 5.0 | 5740 | 188.45 | 57400 | 1.40 | TRF 138 | MY 132S6 161 |
| | 5.4 | 5320 | 174.40* | 58000 | 1.50 | | |
| | 6.0 | 4760 | 156.31 | 58700 | 1.70 | | |
| | 6.7 | 4300 | 141.12* | 59200 | 1.85 | | |
| | 7.3 | 3910 | 128.18 | 59600 | 2.1 | | |
| | 8.3 | 3470 | 113.72 | 60000 | 2.3 | | |
| | 9.1 | 3150 | 103.20* | 60200 | 2.5 | | |
| | 5.9 | 4840 | 158.68 | 21600 | 0.90 | TR 108 | MY 132S6 158 |
| | 6.6 | 4320 | 141.83 | 29300 | 1.00 | TRF 108 | MY 132S6 159 |
| | 7.4 | 3890 | 127.68 | 31500 | 1.10 | | |
| 6.1 | 4710 | 229.95 | 26500 | 0.90 | TR 108 | MY 100L4 158 | |
| 6.9 | 4160 | 203.16 | 30200 | 1.05 | TRF 108 | MY 100L4 159 | |
| 8.1 | 3530 | 172.34 | 33100 | 1.20 | | | |
| 8.8 | 3250 | 158.68 | 34100 | 1.30 | | | |
| 9.9 | 2900 | 141.83 | 35300 | 1.50 | | | |
| 11 | 2610 | 127.68 | 36000 | 1.65 | | | |
| 12 | 2370 | 115.63 | 36300 | 1.80 | | | |
| 14 | 2100 | 102.53 | 36700 | 2.1 | | | |
| 15 | 1900 | 92.70 | 36900 | 2.3 | | | |
| 18 | 1610 | 78.57 | 35900 | 2.7 | | | |
| 19 | 1490 | 72.88 | 35200 | 2.9 | | | |
| 9.3 | 3090 | 150.78 | 16200 | 0.95 | TR 98 | MY 100L4 156 | |
| 11 | 2590 | 126.75 | 23600 | 1.15 | TRF 98 | MY 100L4 157 | |
| 12 | 2380 | 116.48 | 24700 | 1.25 | | | |
| 14 | 2120 | 103.44 | 25900 | 1.40 | | | |

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|------------------|------------------|------------------|--------|-----------------|-------|--|----------|----------|------|
| 3 | 15 | 1890 | 92.48 | 26800 | 1.60 | TR | 98 | MY 100L4 | 156 |
| | 17 | 1700 | 83.15 | 27300 | 1.75 | TRF | 98 | MY 100L4 | 157 |
| | 19 | 1480 | 72.17 | 27700 | 2.0 | | | | |
| | 21 | 1330 | 65.21 | 27000 | 2.3 | | | | |
| | 23 | 1230 | 59.92 | 26400 | 2.5 | | | | |
| | 26 | 1090 | 53.21 | 25600 | 2.8 | | | | |
| | 29 | 970 | 47.58 | 24800 | 3.1 | | | | |
| | 33 | 880 | 42.78 | 24000 | 3.4 | | | | |
| | 38 | 760 | 37.13 | 23100 | 4.0 | | | | |
| | 42 | 680 | 33.25 | 22400 | 4.3 | | | | |
| | 15 | 1910 | 93.38 | 3630 | 0.80 | TR | 88 | MY 100L4 | 153 |
| | 17 | 1680 | 81.92 | 16000 | 0.90 | TRF | 88 | MY 100L4 | 154 |
| | 19 | 1490 | 72.57 | 17400 | 1.05 | | | | |
| | 22 | 1300 | 63.68* | 18400 | 1.20 | | | | |
| | 23 | 1230 | 60.35* | 18800 | 1.25 | TR | 88 | MY 100L4 | 153 |
| | 27 | 1080 | 52.82 | 19500 | 1.45 | TRF | 88 | MY 100L4 | 154 |
| | 29 | 970 | 47.58 | 19900 | 1.60 | | | | |
| | 34 | 850 | 41.74 | 19400 | 1.80 | | | | |
| | 38 | 755 | 36.84* | 18700 | 2.1 | | | | |
| | 43 | 670 | 32.66* | 18100 | 2.3 | | | | |
| | 50 | 570 | 27.88 | 17400 | 2.6 | | | | |
| | 41 | 705 | 34.40* | 18400 | 2.1 | TR | 88 | MY 100L4 | 153 |
| | 45 | 640 | 31.40 | 17900 | 2.4 | TRF | 88 | MY 100L4 | 154 |
| | 50 | 570 | 27.84* | 17400 | 2.7 | | | | |
| | 60 | 480 | 23.40 | 16500 | 3.2 | | | | |
| | 65 | 440 | 21.51 | 16100 | 3.4 | | | | |
| | 73 | 390 | 19.10 | 15600 | 3.7 | | | | |
| | 82 | 350 | 17.08* | 15100 | 4.0 | | | | |
| | 91 | 315 | 15.35 | 14600 | 4.3 | | | | |
| | 31 | 940 | 45.81 | 8670 | 0.85 | TR | 78 | MY 100L4 | 150 |
| | 32 | 890 | 43.26 | 9270 | 0.95 | TRF | 78 | MY 100L4 | 151 |
| | 38 | 755 | 36.83 | 10500 | 1.10 | | | | |
| | 42 | 685 | 33.47 | 11000 | 1.20 | | | | |
| | 48 | 595 | 29.00 | 11600 | 1.40 | TR | 78 | MY 100L4 | 150 |
| | 55 | 515 | 25.23 | 11300 | 1.50 | TRF | 78 | MY 100L4 | 151 |
| | 60 | 480 | 23.37 | 11100 | 1.70 | TR | 78 | MY 100L4 | 150 |
| | 65 | 440 | 21.43 | 10800 | 1.85 | TRF | 78 | MY 100L4 | 151 |
| | 74 | 385 | 18.80 | 10500 | 2.0 | | | | |
| | 79 | 365 | 17.82* | 10300 | 2.1 | | | | |
| | 90 | 320 | 15.60 | 9980 | 2.3 | | | | |
| | 100 | 290 | 14.05 | 9700 | 2.5 | | | | |
| | 114 | 250 | 12.33 | 9350 | 2.7 | | | | |
| | 129 | 225 | 10.88 | 9030 | 3.0 | | | | |
| | 145 | 197 | 9.64 | 8720 | 3.2 | | | | |
| | 163 | 176 | 8.59 | 8500 | 3.6 | | | | |
| | 181 | 158 | 7.74 | 8240 | 3.9 | | | | |
| | 206 | 139 | 6.79 | 7920 | 4.2 | | | | |
| | 60 | 480 | 23.44 | 8730 | 1.15 | TR | 68 | MY 100L4 | 147 |
| | 70 | 405 | 19.89 | 8420 | 1.45 | TRF | 68 | MY 100L4 | 148 |
| | 78 | 365 | 17.95 | 8230 | 1.60 | | | | |
| 89 | 325 | 15.79 | 7980 | 1.75 | | | | | |
| 94 | 305 | 14.91 | 7860 | 1.80 | | | | | |
| 110 | 260 | 12.70 | 7550 | 2.0 | | | | | |
| 121 | 235 | 11.54 | 7360 | 2.1 | | | | | |
| 140 | 205 | 10.00 | 7090 | 2.3 | | | | | |
| 52 | 550 | 26.97 | 4330 | 0.80 | TR | 58 | MY 100L4 | 144 | |
| | | | | | TRF | 58 | MY 100L4 | 145 | |
| 64 | 450 | 21.93 | 4380 | 1.00 | TR | 58 | MY 100L4 | 144 | |
| 75 | 380 | 18.60* | 4300 | 1.20 | TRF | 58 | MY 100L4 | 145 | |
| 83 | 345 | 16.79 | 4250 | 1.30 | | | | | |
| 95 | 300 | 14.77* | 4160 | 1.45 | | | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | | | Page |
|------------------|------------------|------------------|--------|-----------------|-------|--|----------|----------|------|
| 3 | 100 | 285 | 13.95* | 4130 | 1.50 | TR | 58 | MY 100L4 | 144 |
| | 118 | 245 | 11.88 | 4010 | 1.65 | | | | TRF |
| | 130 | 220 | 10.79 | 3940 | 1.75 | | | | |
| | 150 | 191 | 9.35 | 3820 | 1.95 | | | | |
| | 155 | 185 | 9.06 | 3810 | 2.0 | | | | |
| | 176 | 163 | 7.97 | 3700 | 2.2 | | | | |
| | 186 | 154 | 7.53 | 3650 | 2.3 | | | | |
| | 218 | 131 | 6.41 | 3520 | 2.6 | | | | |
| | 240 | 119 | 5.82 | 3430 | 2.7 | | | | |
| | 277 | 103 | 5.05 | 3310 | 3.0 | | | | |
| | 319 | 90 | 4.39 | 3190 | 3.1 | | | | |
| | 128 | 225 | 21.93 | 3950 | 2.0 | TR | 58 | MY 100M2 | 144 |
| | 151 | 190 | 18.60* | 3820 | 2.4 | | | | TRF |
| | 167 | 172 | 16.79 | 3730 | 2.6 | | | | |
| | 190 | 151 | 14.77* | 3620 | 2.9 | | | | |
| | 201 | 143 | 13.95* | 3570 | 3.0 | | | | |
| | 236 | 122 | 11.88 | 3440 | 3.3 | | | | |
| | 259 | 110 | 10.79 | 3360 | 3.5 | | | | |
| | 86 | 330 | 16.22 | 2030 | 0.85 | TR | 48 | MY 100L4 | 141 |
| | 96 | 300 | 14.56 | 2500 | 0.90 | | | | TRF |
| | 112 | 255 | 12.54 | 3040 | 0.95 | | | | |
| | 119 | 240 | 11.79 | 3040 | 1.00 | | | | |
| | 138 | 210 | 10.15 | 2970 | 1.10 | | | | |
| | 154 | 186 | 9.07 | 2910 | 1.20 | | | | |
| | 175 | 164 | 8.01 | 2840 | 1.25 | | | | |
| | 181 | 159 | 7.76* | 2740 | 1.05 | | | | |
| | 201 | 143 | 6.96 | 2680 | 1.10 | | | | |
| | 233 | 123 | 6.00 | 2610 | 1.25 | | | | |
| | 248 | 115 | 5.64* | 2580 | 1.35 | | | | |
| | 288 | 99 | 4.85 | 2490 | 1.50 | | | | |
| | 323 | 89 | 4.34 | 2430 | 1.65 | | | | |
| | 365 | 78 | 3.83 | 2360 | 1.85 | | | | |
| | 237 | 121 | 11.79 | 2670 | 2.0 | TR | 48 | MY 100M2 | 141 |
| | 276 | 104 | 10.15 | 2580 | 2.2 | | | | TRF |
| | 309 | 93 | 9.07 | 2510 | 2.4 | | | | |
| | 349 | 82 | 8.01 | 2430 | 2.5 | | | | |
| | 361 | 79 | 7.76* | 2370 | 2.1 | | | | |
| | 402 | 71 | 6.96 | 2310 | 2.2 | | | | |
| | 467 | 61 | 6.00 | 2220 | 2.5 | | | | |
| | 496 | 58 | 5.64* | 2190 | 2.7 | | | | |
| | 577 | 50 | 4.85 | 2100 | 3.0 | | | | |
| | 646 | 44 | 4.34 | 2040 | 3.3 | | | | |
| | 731 | 39 | 3.83 | 1970 | 3.7 | | | | |
| | 139 | 205 | 10.11 | 780 | 0.80 | TR | 38 | MY 100L4 | 138 |
| | 148 | 194 | 9.47 | 1010 | 0.85 | | | | TRF |
| 176 | 163 | 7.97 | 1510 | 0.95 | | | | | |
| 210 | 137 | 6.67 | 1250 | 1.05 | | | | | |
| 247 | 116 | 5.67 | 1630 | 1.25 | | | | | |
| 277 | 104 | 5.06 | 1830 | 1.30 | | | | | |
| 324 | 88 | 4.32 | 2070 | 1.45 | | | | | |
| 346 | 83 | 4.05 | 2140 | 1.45 | | | | | |
| 411 | 70 | 3.41 | 2180 | 1.60 | | | | | |
| 277 | 103 | 10.11 | 2340 | 1.65 | TR | 38 | MY 100M2 | 138 | |
| 296 | 97 | 9.47 | 2380 | 1.70 | | | | TRF | 38 |
| 351 | 82 | 7.97 | 2290 | 1.90 | | | | | |
| 420 | 68 | 6.67 | 2170 | 2.1 | | | | | |
| 494 | 58 | 5.67 | 2090 | 2.5 | | | | | |
| 553 | 52 | 5.06 | 2030 | 2.6 | | | | | |
| 648 | 44 | 4.32 | 1950 | 2.9 | | | | | |
| 692 | 41 | 4.05 | 1920 | 3.0 | | | | | |
| 821 | 35 | 3.41 | 1840 | 3.2 | | | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | | | Page |
|------------------|------------------|------------------|-------|-----------------|-------|--|-------------|----------|------|
| 3 | 250 | 115 | 5.60* | 360 | 0.85 | TR | 28 | MY 100L4 | 135 |
| | 280 | 102 | 5.00* | 615 | 0.95 | TRF | 28 | MY 100L4 | 136 |
| | 328 | 87 | 4.27 | 910 | 1.00 | | | | |
| | 350 | 82 | 4.00* | 1010 | 1.05 | | | | |
| | 415 | 69 | 3.37 | 1230 | 1.15 | | | | |
| | 425 | 67 | 6.59 | 1260 | 1.55 | TR | 28 | MY 100M2 | 135 |
| | 500 | 57 | 5.60* | 1330 | 1.75 | TRF | 28 | MY 100M2 | 136 |
| | 560 | 51 | 5.00* | 1300 | 1.85 | | | | |
| | 656 | 44 | 4.27 | 1260 | 2.0 | | | | |
| | 700 | 41 | 4.00* | 1240 | 2.1 | | | | |
| | 831 | 35 | 3.37 | 1200 | 2.3 | | | | |
| | 217 | 132 | 6.45 | 7130 | 1.45 | TRX | 88 | MY 100L4 | 126 |
| | 252 | 114 | 5.56* | 6830 | 2.0 | TRXF | 88 | MY 100L4 | 127 |
| | 276 | 104 | 5.07 | 6650 | 2.4 | | | | |
| | 311 | 92 | 4.50* | 6430 | 3.2 | | | | |
| | 370 | 77 | 3.78 | 6100 | 3.9 | | | | |
| | 296 | 97 | 4.73 | 5050 | 1.25 | TRX | 78 | MY 100L4 | 124 |
| | 347 | 83 | 4.04* | 4830 | 1.75 | TRXF | 78 | MY 100L4 | 125 |
| | 378 | 76 | 3.70 | 4720 | 2.0 | | | | |
| | 431 | 67 | 3.25* | 4550 | 2.7 | | | | |
| | 455 | 63 | 3.08* | 4480 | 3.1 | | | | |
| | 371 | 77 | 3.77 | 3150 | 1.15 | TRX | 68 | MY 100L4 | 122 |
| | 438 | 66 | 3.20* | 3030 | 1.55 | TRXF | 68 | MY 100L4 | 123 |
| | 485 | 59 | 2.89 | 2950 | 1.80 | | | | |
| | 551 | 52 | 2.54 | 2850 | 2.3 | | | | |
| | 583 | 49 | 2.40* | 2810 | 2.5 | | | | |
| | 685 | 42 | 2.04 | 2690 | 3.2 | | | | |
| | 754 | 38 | 1.86 | 2610 | 3.3 | | | | |
| | 870 | 33 | 1.61 | 2510 | 3.5 | | | | |
| | 1000 | 29 | 1.40* | 2410 | 3.6 | | | | |
| | 446 | 64 | 3.14 | 2330 | 1.00 | TRX | 58 | MY 100L4 | 120 |
| | 530 | 54 | 2.64* | 2240 | 1.30 | TRXF | 58 | MY 100L4 | 121 |
| | 591 | 49 | 2.37 | 2180 | 1.40 | | | | |
| 686 | 42 | 2.04 | 2100 | 1.65 | | | | | |
| 729 | 39 | 1.92* | 2070 | 1.75 | | | | | |
| 847 | 34 | 1.65 | 1990 | 2.0 | | | | | |
| 948 | 30 | 1.48 | 1930 | 2.3 | | | | | |
| 1075 | 27 | 1.30 | 1870 | 2.4 | | | | | |
| 4 | 1.7 | 21500 | 861 | 120000 | 0.85 | TR | 168 / TRF98 | MY 112M4 | 166 |
| | 1.9 | 19000 | 760 | 120000 | 0.95 | TRF | 168 / TRF98 | MY 112M4 | 166 |
| | 2.2 | 16100 | 656 | 120000 | 1.10 | | | | |
| | 2.8 | 12400 | 503 | 120000 | 1.45 | | | | |
| | 3.8 | 9260 | 376 | 120000 | 1.95 | | | | |
| | 4.2 | 8240 | 335 | 120000 | 2.2 | | | | |
| | 2.7 | 13200 | 533 | 62200 | 1.00 | TR | 148 / TRF88 | MY 112M4 | 166 |
| | 3.1 | 11400 | 462 | 65600 | 1.15 | TRF | 148 / TRF88 | MY 112M4 | 166 |
| | 3.3 | 10600 | 426 | 66800 | 1.20 | | | | |
| | 3.9 | 9190 | 368 | 68900 | 1.40 | | | | |
| | 4.4 | 8130 | 326 | 70200 | 1.60 | | | | |
| | 5.1 | 6920 | 280 | 71400 | 1.90 | | | | |
| | 5.7 | 6110 | 247 | 72100 | 2.1 | | | | |
| | 6.7 | 5280 | 214 | 72800 | 2.5 | | | | |
| | 7.5 | 4670 | 189 | 73200 | 2.8 | | | | |
| | 9.0 | 3920 | 159 | 73600 | 3.3 | | | | |
| | 2.3 | 15500 | 619 | 43200 | 0.85 | TR | 148 / TRF78 | MY 112M4 | 166 |
| | 2.5 | 14000 | 558 | 60500 | 0.95 | TRF | 148 / TRF78 | MY 112M4 | 166 |
| | 2.9 | 12300 | 489 | 64100 | 1.05 | | | | |
| | 3.4 | 10400 | 415 | 67200 | 1.25 | | | | |
| 3.7 | 9570 | 381 | 42700 | 0.85 | TR | 138 / TRF78 | MY 112M4 | 166 | |
| 4.4 | 8120 | 323 | 53100 | 1.00 | TRF | 138 / TRF78 | MY 112M4 | 166 | |

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| 4 | 4.9 | 7310 | 291 | 54800 | 1.10 | TR 138 / TRF78 | MY 112M4 166 |
| | 5.6 | 6390 | 255 | 56400 | 1.25 | TRF 138 / TRF78 | MY 112M4 166 |
| | 6.4 | 5600 | 223 | 57600 | 1.45 | | |
| | 3.8 | 9560 | 376 | 43000 | 0.85 | TR 138 / TRF78 | MY 112M4 166 |
| | 4.2 | 8600 | 339 | 51400 | 0.95 | TRF 138 / TRF78 | MY 112M4 166 |
| | 4.8 | 7540 | 297 | 54300 | 1.05 | | |
| | 7.6 | 4680 | 187 | 27200 | 0.90 | TR 108 / TRF78 | MY 112M4 166 |
| | | | | | | TRF 108 / TRF78 | MY 112M4 166 |
| | 7.3 | 4890 | 193 | 19000 | 0.90 | TR 108 / TRF78 | MY 112M4 166 |
| | 8.2 | 4380 | 172 | 29000 | 1.00 | TRF 108 / TRF78 | MY 112M4 166 |
| | 4.4 | 8660 | 163.31 | 69500 | 1.50 | TR 148 | MY 132ML8 162 |
| | 4.9 | 7790 | 146.91 | 70500 | 1.65 | TRF 148 | MY 132ML8 163 |
| | 6.0 | 6360 | 119.86 | 71900 | 2.0 | | |
| | 6.6 | 5800 | 109.31 | 72400 | 2.2 | | |
| | 4.1 | 9250 | 174.40* | 48400 | 0.85 | TR 138 | MY 132ML8 160 |
| | 4.6 | 8290 | 156.31 | 52700 | 0.95 | TRF 138 | MY 132ML8 161 |
| | 5.1 | 7490 | 141.12* | 54400 | 1.05 | | |
| | 5.6 | 6800 | 128.18 | 55700 | 1.20 | | |
| | 6.3 | 6030 | 113.72 | 57000 | 1.35 | | |
| | 7.0 | 5470 | 103.20* | 57800 | 1.45 | | |
| | 4.3 | 8860 | 222.60* | 50300 | 0.90 | TR 138 | MY 132M6 160 |
| | 5.1 | 7500 | 188.45 | 54400 | 1.05 | TRF 138 | MY 132M6 161 |
| | 5.5 | 6940 | 174.40* | 55500 | 1.15 | | |
| | 6.1 | 6220 | 156.31 | 56700 | 1.30 | | |
| | 6.8 | 5620 | 141.12* | 57600 | 1.40 | | |
| | 7.5 | 5100 | 128.18 | 58300 | 1.55 | | |
| | 8.4 | 4520 | 113.72 | 59000 | 1.75 | TR 138 | MY 132M6 160 |
| | 9.3 | 4110 | 103.20* | 59400 | 1.95 | TRF 138 | MY 132M6 161 |
| | 11 | 3530 | 88.70* | 59900 | 2.3 | | |
| | 8.2 | 4640 | 172.34 | 27500 | 0.95 | TR 108 | MY 112M4 158 |
| | 9.0 | 4270 | 158.68 | 29600 | 1.00 | TRF 108 | MY 112M4 159 |
| | 10 | 3820 | 141.83 | 31900 | 1.15 | | |
| | 11 | 3430 | 127.68 | 33400 | 1.25 | | |
| | 12 | 3110 | 115.63 | 34600 | 1.40 | | |
| | 14 | 2760 | 102.53 | 35700 | 1.55 | | |
| | 15 | 2490 | 92.70 | 36200 | 1.70 | | |
| | 18 | 2110 | 78.57 | 34900 | 2.0 | | |
| | 19 | 1960 | 72.88 | 34200 | 2.2 | | |
| | 22 | 1760 | 65.60* | 33200 | 2.4 | | |
| | 24 | 1600 | 59.41 | 32300 | 2.7 | | |
| | 27 | 1420 | 52.68 | 31300 | 3.0 | | |
| | 12 | 3130 | 116.48 | 13800 | 0.95 | TR 98 | MY 112M4 156 |
| | 14 | 2780 | 103.44 | 22400 | 1.10 | TRF 98 | MY 112M4 157 |
| | 15 | 2490 | 92.48 | 24100 | 1.20 | | |
| 17 | 2240 | 83.15 | 25400 | 1.35 | | | |
| 20 | 1940 | 72.17 | 26600 | 1.55 | | | |
| 22 | 1750 | 65.21 | 26000 | 1.70 | | | |
| 24 | 1610 | 59.92 | 25500 | 1.85 | | | |
| 27 | 1430 | 53.21 | 24700 | 2.1 | | | |
| 30 | 1280 | 47.58 | 24000 | 2.3 | | | |
| 33 | 1150 | 42.78 | 23400 | 2.6 | | | |
| 38 | 1000 | 37.13 | 22500 | 3.0 | | | |
| 43 | 890 | 33.25 | 21800 | 3.2 | | | |
| 44 | 860 | 32.05 | 21600 | 3.0 | TR 98 | MY 112M4 156 | |
| 52 | 730 | 27.19 | 20600 | 3.5 | TRF 98 | MY 112M4 157 | |
| 57 | 675 | 25.03 | 20100 | 4.2 | | | |
| 63 | 600 | 22.37 | 19500 | 4.5 | | | |
| 71 | 540 | 20.14 | 18900 | 4.8 | | | |
| 22 | 1710 | 63.68* | 13300 | 0.90 | TR 88 | MY 112M4 153 | |
| 24 | 1620 | 60.35* | 13900 | 0.95 | TRF 88 | MY 112M4 154 | |
| 27 | 1420 | 52.82 | 15200 | 1.10 | | | |

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| 4 | 30 | 1280 | 47.58 | 16000 | 1.20 | TR | 88 | MY 112M4 | 153 |
| | 34 | 1120 | 41.74 | 16800 | 1.40 | TRF | 88 | MY 112M4 | 154 |
| | 39 | 990 | 36.84* | 17400 | 1.55 | | | | |
| | 43 | 880 | 32.66* | 17500 | 1.75 | | | | |
| | 51 | 750 | 27.88 | 16800 | 2.0 | | | | |
| | 41 | 930 | 34.40* | 17600 | 1.60 | TR | 88 | MY 112M4 | 153 |
| | 45 | 840 | 31.40 | 17400 | 1.85 | TRF | 88 | MY 112M4 | 154 |
| | 51 | 750 | 27.84* | 16800 | 2.1 | | | | |
| | 61 | 630 | 23.40 | 16100 | 2.5 | | | | |
| | 66 | 580 | 21.51 | 15700 | 2.6 | | | | |
| | 74 | 515 | 19.10 | 15200 | 2.8 | | | | |
| | 83 | 460 | 17.08* | 14700 | 3.0 | | | | |
| | 92 | 415 | 15.35 | 14300 | 3.2 | | | | |
| | 107 | 360 | 13.33 | 13700 | 3.6 | | | | |
| | 119 | 320 | 11.93 | 13300 | 3.8 | | | | |
| | 39 | 990 | 36.83 | 4070 | 0.85 | TR | 78 | MY 112M4 | 150 |
| | 42 | 900 | 33.47 | 9100 | 0.90 | TRF | 78 | MY 112M4 | 151 |
| | 49 | 780 | 29.00 | 10300 | 1.05 | | | | |
| | 56 | 680 | 25.23 | 10800 | 1.15 | | | | |
| | 61 | 630 | 23.37 | 10600 | 1.30 | TR | 78 | MY 112M4 | 150 |
| | 66 | 575 | 21.43 | 10400 | 1.40 | TRF | 78 | MY 112M4 | 151 |
| | 76 | 505 | 18.80 | 10100 | 1.55 | | | | |
| | 80 | 480 | 17.82* | 9950 | 1.65 | | | | |
| | 91 | 420 | 15.60 | 9630 | 1.75 | | | | |
| | 101 | 380 | 14.05 | 9380 | 1.90 | | | | |
| | 115 | 330 | 12.33 | 9070 | 2.1 | | | | |
| | 131 | 295 | 10.88 | 8780 | 2.3 | | | | |
| | 147 | 260 | 9.64 | 8500 | 2.4 | | | | |
| | 165 | 230 | 8.59 | 8320 | 2.7 | | | | |
| | 183 | 210 | 7.74 | 8070 | 2.9 | | | | |
| | 209 | 183 | 6.79 | 7770 | 3.2 | | | | |
| | 237 | 161 | 5.99* | 7490 | 3.4 | | | | |
| | 267 | 143 | 5.31* | 7230 | 3.6 | | | | |
| | 71 | 535 | 19.89 | 7960 | 1.10 | TR | 68 | MY 112M4 | 147 |
| | 79 | 485 | 17.95 | 7800 | 1.20 | TRF | 68 | MY 112M4 | 148 |
| | 90 | 425 | 15.79 | 7600 | 1.30 | | | | |
| | 95 | 400 | 14.91 | 7510 | 1.35 | | | | |
| | 112 | 340 | 12.70 | 7240 | 1.50 | | | | |
| | 123 | 310 | 11.54 | 7080 | 1.60 | | | | |
| | 142 | 270 | 10.00 | 6840 | 1.75 | | | | |
| | 163 | 235 | 8.70* | 6600 | 1.90 | | | | |
| | 182 | 210 | 7.79 | 6440 | 1.80 | | | | |
| | 193 | 198 | 7.36* | 6340 | 1.85 | | | | |
| | 227 | 169 | 6.27 | 6070 | 1.95 | | | | |
| 249 | 153 | 5.70 | 5920 | 2.0 | | | | | |
| 288 | 133 | 4.93 | 5680 | 2.2 | | | | | |
| 331 | 116 | 4.29 | 5460 | 2.3 | | | | | |
| 76 | 500 | 18.60* | 3520 | 0.90 | TR | 58 | MY 112M4 | 144 | |
| 85 | 450 | 16.79 | 3830 | 1.00 | TRF | 58 | MY 112M4 | 145 | |
| 96 | 395 | 14.77* | 3800 | 1.10 | | | | | |
| 102 | 375 | 13.95* | 3780 | 1.15 | | | | | |
| 120 | 320 | 11.88 | 3710 | 1.25 | | | | | |
| 132 | 290 | 10.79 | 3660 | 1.35 | | | | | |
| 152 | 250 | 9.35 | 3580 | 1.45 | | | | | |
| 157 | 245 | 9.06 | 3590 | 1.55 | | | | | |
| 178 | 215 | 7.97 | 3500 | 1.65 | | | | | |
| 189 | 205 | 7.53 | 3470 | 1.75 | | | | | |
| 222 | 172 | 6.41 | 3350 | 1.95 | | | | | |
| 244 | 157 | 5.82 | 3280 | 2.0 | | | | | |
| 281 | 136 | 5.05 | 3180 | 2.3 | | | | | |
| 323 | 118 | 4.39 | 3070 | 2.4 | | | | | |

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| 4 | 140 | 275 | 10.15 | 1960 | 0.85 | TR | 48 | MY 112M4 | 141 | |
| | 157 | 245 | 9.07 | 2350 | 0.90 | | | | TRF | 48 |
| | 177 | 215 | 8.01 | 2640 | 0.95 | | | | | |
| | 204 | 187 | 6.96 | 2480 | 0.85 | | | | | |
| | 237 | 161 | 6.00 | 2430 | 0.95 | | | | | |
| | 252 | 152 | 5.64* | 2410 | 1.00 | | | | | |
| | 293 | 131 | 4.85 | 2350 | 1.15 | | | | | |
| | 327 | 117 | 4.34 | 2300 | 1.25 | | | | | |
| | 371 | 103 | 3.83 | 2250 | 1.40 | | | | | |
| | | 176 | 215 | 16.22 | 2640 | 1.25 | TR | 48 | MY 112M2 | 141 |
| | | 196 | 195 | 14.56 | 2600 | 1.35 | | | | TRF |
| | | 228 | 168 | 12.54 | 2540 | 1.50 | | | | |
| | | 242 | 158 | 11.79 | 2510 | 1.55 | | | | |
| | | 282 | 136 | 10.15 | 2440 | 1.70 | | | | |
| | | 315 | 121 | 9.07 | 2390 | 1.80 | | | | |
| | | 357 | 107 | 8.01 | 2320 | 1.90 | | | | |
| | | 369 | 104 | 7.76* | 2250 | 1.55 | | | | |
| | | 411 | 93 | 6.96 | 2200 | 1.70 | | | | |
| | | 477 | 80 | 6.00 | 2130 | 1.95 | | | | |
| | | 507 | 75 | 5.64* | 2100 | 2.1 | | | | |
| | | 589 | 65 | 4.85 | 2020 | 2.3 | | | | |
| | | 660 | 58 | 4.34 | 1970 | 2.5 | | | | |
| | | 746 | 51 | 3.83 | 1910 | 2.8 | | | | |
| | | 255 | 150 | 5.56* | 6630 | 1.50 | TRX | 88 | MY 112M4 | 126 |
| | | 280 | 137 | 5.07 | 6470 | 1.85 | | | | TRXF |
| | | 316 | 121 | 4.50* | 6260 | 2.4 | | | | |
| | | 375 | 102 | 3.78 | 5960 | 3.0 | | | | |
| | | 351 | 109 | 4.04* | 4670 | 1.30 | TRX | 78 | MY 112M4 | 124 |
| | | 383 | 100 | 3.70 | 4560 | 1.55 | | | | TRXF |
| | | 437 | 87 | 3.25* | 4410 | 2.1 | | | | |
| | | 461 | 83 | 3.08* | 4350 | 2.3 | | | | |
| | | 527 | 73 | 2.70 | 4190 | 3.0 | | | | |
| | | 585 | 65 | 2.43 | 4070 | 3.3 | | | | |
| | | 667 | 57 | 2.13 | 3920 | 3.5 | | | | |
| | | 755 | 51 | 1.88* | 3780 | 3.7 | | | | |
| | | 852 | 45 | 1.67 | 3650 | 3.9 | | | | |
| | | 998 | 38 | 1.42 | 3480 | 4.1 | | | | |
| | 444 | 86 | 3.20* | 2870 | 1.15 | TRX | 68 | MY 112M4 | 122 | |
| | 492 | 78 | 2.89 | 2810 | 1.35 | | | | TRXF | 68 |
| | 559 | 68 | 2.54 | 2730 | 1.75 | | | | | |
| | 592 | 65 | 2.40* | 2690 | 1.90 | | | | | |
| | 695 | 55 | 2.04 | 2580 | 2.4 | | | | | |
| | 765 | 50 | 1.86 | 2520 | 2.5 | | | | | |
| | 883 | 43 | 1.61 | 2420 | 2.6 | | | | | |
| | 1015 | 38 | 1.40* | 2330 | 2.8 | | | | | |
| | 538 | 71 | 2.64* | 1670 | 0.95 | TRX | 58 | MY 112M4 | 120 | |
| | 599 | 64 | 2.37 | 1780 | 1.10 | | | | TRXF | 58 |
| | 696 | 55 | 2.04 | 1910 | 1.25 | | | | | |
| | 740 | 52 | 1.92* | 1940 | 1.35 | | | | | |
| | 859 | 44 | 1.65 | 1900 | 1.55 | | | | | |
| | 962 | 40 | 1.48 | 1840 | 1.70 | | | | | |
| | 1090 | 35 | 1.30 | 1790 | 1.80 | | | | | |
| 5.5 | 2.2 | 22200 | 656 | 120000 | 0.80 | TR | 168 / TRF98 | MY 132S4 | 166 | |
| | 2.5 | 19400 | 579 | 120000 | 0.95 | | | | TRF | 168 / TRF98 |
| | 2.8 | 17000 | 503 | 120000 | 1.05 | | | | | |
| | 3.3 | 14500 | 432 | 120000 | 1.25 | | | | | |
| | 3.8 | 12700 | 376 | 120000 | 1.40 | | | | | |
| | 4.3 | 11300 | 335 | 120000 | 1.60 | | | | | |
| | 4.7 | 10200 | 303 | 120000 | 1.75 | | | | | |
| | 5.1 | 9360 | 279 | 120000 | 1.90 | | | | | |

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|------------------|------------------|------------------|---------|-----------------|--------|--|---------------|
| 5.5 | 3.1 | 15700 | 462 | 41200 | 0.85 | TR 148 / TRF88 | MY 132S4 166 |
| | 3.4 | 14600 | 426 | 55400 | 0.90 | TRF 148 / TRF88 | MY 132S4 166 |
| | 3.9 | 12600 | 368 | 63500 | 1.05 | | |
| | 4.4 | 11100 | 326 | 66000 | 1.15 | | |
| | 5.1 | 9520 | 280 | 68500 | 1.35 | | |
| | 5.8 | 8400 | 247 | 69900 | 1.55 | | |
| | 6.7 | 7250 | 214 | 71100 | 1.80 | | |
| | 7.6 | 6410 | 189 | 71900 | 2.0 | | |
| | 3.1 | 17000 | 229.71 | 120000 | 1.05 | TR 168 | MY 160M8 164 |
| | 3.8 | 13800 | 186.93* | 120000 | 1.30 | TRF 168 | MY 160M8 165 |
| | 4.6 | 11300 | 153.07 | 120000 | 1.60 | | |
| | 5.1 | 10400 | 139.98 | 120000 | 1.75 | | |
| | 5.8 | 9010 | 121.81* | 120000 | 2.0 | | |
| | 4.4 | 12100 | 163.31 | 64400 | 1.10 | TR 148 | MY 160M8 162 |
| | 4.8 | 10900 | 146.91 | 66500 | 1.20 | TRF 148 | MY 160M8 163 |
| | 5.9 | 8870 | 119.86 | 69300 | 1.45 | | |
| | 6.5 | 8090 | 109.31 | 70200 | 1.60 | | |
| | 5.9 | 8930 | 163.31 | 69200 | 1.45 | TR 148 | MY 132ML6 162 |
| | 6.5 | 8040 | 146.91 | 70300 | 1.60 | TRF 148 | MY 132ML6 163 |
| | 8.0 | 6560 | 119.86 | 71700 | 2.0 | | |
| | 8.8 | 5980 | 109.31 | 72200 | 2.2 | TR 148 | MY 132ML6 162 |
| | 10 | 5180 | 94.60* | 72800 | 2.5 | TRF 148 | MY 132ML6 163 |
| | 12 | 4570 | 83.47 | 73200 | 2.9 | | |
| | 5.5 | 9480 | 128.18 | 44400 | 0.85 | TR 138 | MY 160M8 160 |
| | 6.2 | 8410 | 113.72 | 52200 | 0.95 | TRF 138 | MY 160M8 161 |
| | 6.9 | 7630 | 103.20* | 54200 | 1.05 | | |
| | 8.0 | 6560 | 88.70* | 56100 | 1.20 | | |
| | 5.5 | 9540 | 174.40* | 43300 | 0.85 | TR 138 | MY 132ML6 160 |
| | 6.1 | 8550 | 156.31 | 51600 | 0.95 | TRF 138 | MY 132ML6 161 |
| | 6.8 | 7720 | 141.12* | 54000 | 1.05 | | |
| | 7.5 | 7010 | 128.18 | 55300 | 1.15 | | |
| | 8.4 | 6220 | 113.72 | 56700 | 1.30 | | |
| | 9.3 | 5650 | 103.20* | 57600 | 1.40 | | |
| | 6.4 | 8180 | 222.60* | 53000 | 1.00 | TR 138 | MY 132S4 160 |
| | 7.6 | 6920 | 188.45 | 55500 | 1.15 | TRF 138 | MY 132S4 161 |
| | 8.2 | 6410 | 174.40* | 56400 | 1.25 | | |
| | 9.2 | 5740 | 156.31 | 57400 | 1.40 | | |
| | 10 | 5180 | 141.12* | 58200 | 1.55 | | |
| | 11 | 4710 | 128.18 | 58800 | 1.70 | TR 138 | MY 132S4 160 |
| | 13 | 4180 | 113.72 | 59300 | 1.90 | TRF 138 | MY 132S4 161 |
| | 14 | 3790 | 103.20* | 59700 | 2.1 | | |
| | 16 | 3260 | 88.70* | 60200 | 2.5 | | |
| | 18 | 2970 | 80.91* | 60400 | 2.7 | | |
| | 19 | 2700 | 73.49 | 60500 | 3.0 | | |
| | 22 | 2390 | 65.20 | 60700 | 3.3 | | |
| | 24 | 2170 | 59.17* | 60900 | 3.7 | | |
| | 28 | 1870 | 50.86* | 61000 | 4.3 | | |
| | 11 | 4690 | 127.68 | 27100 | 0.90 | TR 108 | MY 132S4 158 |
| | 12 | 4250 | 115.63 | 29800 | 1.00 | TRF 108 | MY 132S4 159 |
| | 14 | 3770 | 102.53 | 32100 | 1.15 | | |
| 15 | 3400 | 92.70 | 33500 | 1.25 | | | |
| 18 | 2890 | 78.57 | 33500 | 1.50 | | | |
| 20 | 2680 | 72.88 | 32900 | 1.60 | | | |
| 22 | 2410 | 65.60* | 32100 | 1.80 | | | |
| 24 | 2180 | 59.41 | 31300 | 1.95 | | | |
| 27 | 1930 | 52.68 | 30300 | 2.2 | | | |
| 30 | 1750 | 47.63 | 29500 | 2.5 | | | |
| 35 | 1480 | 40.37* | 28200 | 2.9 | | | |
| 17 | 3050 | 83.15 | 17600 | 1.00 | TR 98 | MY 132S4 156 | |
| 20 | 2650 | 72.17 | 21800 | 1.15 | TRF 98 | MY 132S4 157 | |

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| 5.5 | 22 | 2390 | 65.21 | 24600 | 1.25 | TR | 98 | MY 132S4 | 156 |
| | 24 | 2200 | 59.92 | 24200 | 1.35 | TRF | 98 | MY 132S4 | 157 |
| | 27 | 1950 | 53.21 | 23600 | 1.55 | | | | |
| | 30 | 1750 | 47.58 | 23000 | 1.70 | | | | |
| | 33 | 1570 | 42.78 | 22500 | 1.90 | | | | |
| | 39 | 1360 | 37.13 | 21700 | 2.2 | | | | |
| | 43 | 1220 | 33.25 | 21100 | 2.4 | | | | |
| | 52 | 1010 | 27.58 | 20100 | 2.6 | | | | |
| | 45 | 1180 | 32.05 | 20900 | 2.2 | TR | 98 | MY 132S4 | 156 |
| | 53 | 1000 | 27.19 | 20000 | 2.6 | TRF | 98 | MY 132S4 | 157 |
| | 57 | 920 | 25.03 | 19600 | 3.1 | | | | |
| | 64 | 820 | 22.37 | 19000 | 3.3 | | | | |
| | 71 | 740 | 20.14 | 18400 | 3.5 | | | | |
| | 78 | 670 | 18.24 | 17900 | 3.7 | | | | |
| | 88 | 595 | 16.17 | 17300 | 4.0 | | | | |
| | 30 | 1750 | 47.58 | 15400 | 0.90 | TR | 88 | MY 132S4 | 153 |
| | 34 | 1530 | 41.74 | 17000 | 1.00 | TRF | 88 | MY 132S4 | 154 |
| | 39 | 1350 | 36.84* | 17200 | 1.15 | | | | |
| | 44 | 1200 | 32.66* | 16700 | 1.30 | | | | |
| | 51 | 1020 | 27.88 | 16100 | 1.45 | | | | |
| | 51 | 1020 | 27.84* | 16100 | 1.50 | TR | 88 | MY 132S4 | 153 |
| | 61 | 860 | 23.40 | 15500 | 1.80 | TRF | 88 | MY 132S4 | 154 |
| | 66 | 790 | 21.51 | 15200 | 1.90 | | | | |
| | 75 | 700 | 19.10 | 14700 | 2.1 | | | | |
| | 84 | 625 | 17.08* | 14300 | 2.2 | | | | |
| | 93 | 565 | 15.35 | 13900 | 2.4 | | | | |
| | 107 | 490 | 13.33 | 13400 | 2.6 | | | | |
| | 120 | 440 | 11.93 | 13000 | 2.8 | | | | |
| | 144 | 365 | 9.90* | 12300 | 3.3 | | | | |
| | 156 | 335 | 9.14* | 12200 | 3.6 | | | | |
| | 174 | 300 | 8.22 | 11800 | 3.8 | | | | |
| | 200 | 260 | 7.13 | 11300 | 4.1 | | | | |
| | 76 | 690 | 18.80 | 9240 | 1.15 | TR | 78 | MY 132S4 | 150 |
| | 80 | 655 | 17.82* | 9400 | 1.20 | TRF | 78 | MY 132S4 | 151 |
| | 92 | 575 | 15.60 | 9150 | 1.30 | | | | |
| | 102 | 515 | 14.05 | 8950 | 1.40 | TR | 78 | MY 132S4 | 150 |
| | 116 | 455 | 12.33 | 8690 | 1.50 | TRF | 78 | MY 132S4 | 151 |
| | 131 | 400 | 10.88 | 8440 | 1.65 | | | | |
| | 148 | 355 | 9.64 | 8190 | 1.80 | | | | |
| | 166 | 315 | 8.59 | 8080 | 2.0 | | | | |
| | 185 | 285 | 7.74 | 7860 | 2.2 | | | | |
| | 211 | 250 | 6.79 | 7580 | 2.3 | | | | |
| | 239 | 220 | 5.99* | 7320 | 2.5 | | | | |
| | 269 | 195 | 5.31* | 7070 | 2.6 | | | | |
| | 91 | 580 | 15.79 | 6610 | 0.95 | TR | 68 | MY 132S4 | 147 |
| | 96 | 550 | 14.91 | 6900 | 1.00 | TRF | 68 | MY 132S4 | 148 |
| 113 | 465 | 12.70 | 6810 | 1.10 | | | | | |
| 124 | 425 | 11.54 | 6690 | 1.20 | | | | | |
| 143 | 365 | 10.00 | 6500 | 1.30 | | | | | |
| 164 | 320 | 8.70* | 6310 | 1.40 | | | | | |
| 183 | 285 | 7.79 | 6180 | 1.35 | | | | | |
| 194 | 270 | 7.36* | 6100 | 1.35 | | | | | |
| 228 | 230 | 6.27 | 5860 | 1.45 | | | | | |
| 251 | 210 | 5.70 | 5720 | 1.50 | | | | | |
| 290 | 181 | 4.93 | 5510 | 1.60 | | | | | |
| 333 | 158 | 4.29 | 5310 | 1.70 | | | | | |
| 331 | 159 | 8.70* | 5300 | 2.8 | TR | 68 | MY 132S2 | 147 | |
| 369 | 142 | 7.79 | 5160 | 2.7 | TRF | 68 | MY 132S2 | 148 | |
| 391 | 134 | 7.36* | 5080 | 2.8 | | | | | |
| 460 | 114 | 6.27 | 4860 | 2.9 | | | | | |

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| 5.5 | 506 | 104 | 5.70 | 4730 | 3.0 | TR | 68 | MY 132S2 | 147 |
| | 584 | 90 | 4.93 | 4540 | 3.2 | TRF | 68 | MY 132S2 | 148 |
| | 671 | 78 | 4.29 | 4350 | 3.5 | | | | |
| | 97 | 545 | 14.77* | 1730 | 0.80 | TR | 58 | MY 132S4 | 144 |
| | 103 | 510 | 13.95* | 2070 | 0.85 | TRF | 58 | MY 132S4 | 145 |
| | 120 | 435 | 11.88 | 2900 | 0.95 | | | | |
| | 132 | 395 | 10.79 | 3270 | 1.00 | | | | |
| | 153 | 345 | 9.35 | 3240 | 1.10 | TR | 58 | MY 132S4 | 144 |
| | 179 | 295 | 7.97 | 3220 | 1.20 | TRF | 58 | MY 132S4 | 145 |
| | 190 | 275 | 7.53 | 3200 | 1.25 | | | | |
| | 223 | 235 | 6.41 | 3120 | 1.40 | | | | |
| | 246 | 215 | 5.82 | 3080 | 1.50 | | | | |
| | 283 | 185 | 5.05 | 3000 | 1.65 | | | | |
| | 326 | 161 | 4.39 | 2920 | 1.75 | | | | |
| | 308 | 171 | 9.35 | 2930 | 2.2 | TR | 58 | MY 132S2 | 144 |
| | 361 | 145 | 7.97 | 2850 | 2.4 | TRF | 58 | MY 132S2 | 145 |
| | 383 | 137 | 7.53 | 2820 | 2.6 | | | | |
| | 449 | 117 | 6.41 | 2720 | 2.9 | | | | |
| | 494 | 106 | 5.82 | 2660 | 3.0 | | | | |
| | 571 | 92 | 5.05 | 2560 | 3.3 | | | | |
| | 656 | 80 | 4.39 | 2470 | 3.5 | | | | |
| | 295 | 178 | 4.85 | 1870 | 0.85 | TR | 48 | MY 132S4 | 141 |
| | 330 | 159 | 4.34 | 2110 | 0.90 | TRF | 48 | MY 132S4 | 142 |
| | 373 | 141 | 3.83 | 2080 | 1.00 | | | | |
| | 230 | 230 | 12.54 | 1730 | 1.10 | TR | 48 | MY 132S2 | 141 |
| | 244 | 215 | 11.79 | 1910 | 1.15 | TRF | 48 | MY 132S2 | 142 |
| | 284 | 185 | 10.15 | 2250 | 1.25 | | | | |
| | 318 | 165 | 9.07 | 2220 | 1.35 | | | | |
| | 359 | 146 | 8.01 | 2170 | 1.40 | | | | |
| | 480 | 109 | 6.00 | 2000 | 1.45 | | | | |
| | 511 | 103 | 5.64* | 1970 | 1.50 | | | | |
| | 593 | 89 | 4.85 | 1920 | 1.70 | | | | |
| | 664 | 79 | 4.34 | 1870 | 1.85 | | | | |
| | 752 | 70 | 3.83 | 1820 | 2.1 | | | | |
| | 216 | 245 | 6.63* | 10500 | 1.90 | TRX | 108 | MY 132S4 | 130 |
| | 255 | 205 | 5.61 | 9980 | 2.2 | TRXF | 108 | MY 132S4 | 131 |
| | 276 | 191 | 5.19 | 9760 | 3.7 | | | | |
| | 307 | 171 | 4.65 | 9460 | 4.1 | | | | |
| | 247 | 215 | 5.79 | 8380 | 1.95 | TRX | 98 | MY 132S4 | 128 |
| | 291 | 180 | 4.91 | 8010 | 2.2 | TRXF | 98 | MY 132S4 | 129 |
| | 316 | 166 | 4.52 | 7820 | 3.6 | | | | |
| | 354 | 149 | 4.04 | 7580 | 4.0 | | | | |
| | 393 | 134 | 3.64* | 7350 | 4.5 | | | | |
| | 434 | 121 | 3.30 | 7140 | 4.9 | | | | |
| | 489 | 107 | 2.92 | 6890 | 5.5 | | | | |
| | 541 | 97 | 2.64 | 6690 | 6.1 | | | | |
| | 638 | 82 | 2.24* | 6360 | 7.2 | | | | |
| | 731 | 72 | 1.96 | 6110 | 7.9 | | | | |
| | 874 | 60 | 1.64 | 5780 | 8.4 | | | | |
| | 1010 | 52 | 1.42 | 5530 | 8.8 | | | | |
| | 318 | 165 | 4.50* | 6040 | 1.75 | TRX | 88 | MY 132S4 | 126 |
| | 378 | 139 | 3.78 | 5770 | 2.2 | TRXF | 88 | MY 132S4 | 127 |
| 411 | 128 | 3.48 | 5640 | 3.2 | | | | | |
| 463 | 113 | 3.09 | 5460 | 3.6 | | | | | |
| 518 | 101 | 2.76* | 5290 | 4.0 | | | | | |
| 576 | 91 | 2.48 | 5130 | 4.5 | | | | | |
| 664 | 79 | 2.15 | 4930 | 4.9 | | | | | |
| 440 | 119 | 3.25* | 4220 | 1.50 | TRX | 78 | MY 132S4 | 124 | |
| 464 | 113 | 3.08* | 4160 | 1.70 | TRXF | 78 | MY 132S4 | 125 | |
| 530 | 99 | 2.70 | 4030 | 2.2 | | | | | |

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| 5.5 | 589 | 89 | 2.43 | 3920 | 2.4 | TRX 78 | MY 132S4 124 |
| | 671 | 78 | 2.13 | 3780 | 2.6 | TRXF 78 | MY 132S4 125 |
| | 761 | 69 | 1.88* | 3660 | 2.7 | | |
| | 858 | 61 | 1.67 | 3540 | 2.8 | | |
| | 1005 | 52 | 1.42 | 3380 | 3.0 | | |
| | 563 | 93 | 2.54 | 2550 | 1.25 | TRX 68 | MY 132S4 122 |
| | 596 | 88 | 2.40* | 2520 | 1.40 | TRXF 68 | MY 132S4 123 |
| | 700 | 75 | 2.04 | 2430 | 1.80 | | |
| | 770 | 68 | 1.86 | 2380 | 1.85 | | |
| | 889 | 59 | 1.61 | 2300 | 1.95 | | |
| | 1020 | 51 | 1.40* | 2220 | 2.0 | | |
| | 700 | 75 | 2.04 | 665 | 0.90 | TRX 58 | MY 132S4 120 |
| | 745 | 71 | 1.92* | 755 | 1.00 | TRXF 58 | MY 132S4 121 |
| | 866 | 61 | 1.65 | 940 | 1.15 | | |
| 969 | 54 | 1.48 | 1020 | 1.25 | | | |
| 1095 | 48 | 1.30 | 1160 | 1.30 | | | |
| 7.5 | 2.8 | 23400 | 503 | 120000 | 0.75 | TR 168 / TRF98 | MY 132M4 166 |
| | 3.3 | 19900 | 432 | 120000 | 0.90 | TRF 168 / TRF98 | MY 132M4 166 |
| | 3.8 | 17500 | 376 | 120000 | 1.05 | | |
| | 4.3 | 15600 | 335 | 120000 | 1.15 | | |
| | 4.7 | 14000 | 303 | 120000 | 1.30 | | |
| | 5.1 | 12900 | 279 | 120000 | 1.40 | | |
| | 4.4 | 15200 | 326 | 47300 | 0.85 | TR 148 / TRF88 | MY 132M4 166 |
| | 5.1 | 13000 | 280 | 62600 | 1.00 | TRF 148 / TRF88 | MY 132M4 166 |
| | 5.8 | 11500 | 247 | 65400 | 1.15 | | |
| | 6.7 | 9940 | 214 | 67900 | 1.30 | | |
| | 7.6 | 8790 | 189 | 69400 | 1.50 | | |
| | 9.0 | 7390 | 159 | 71000 | 1.75 | | |
| | 3.1 | 22900 | 229.71 | 120000 | 0.80 | TR 168 | MY 160L8 164 |
| | 3.9 | 18600 | 186.93* | 120000 | 0.95 | TRF 168 | MY 160L8 165 |
| | 4.7 | 15200 | 153.07 | 120000 | 1.20 | | |
| | 5.1 | 13900 | 139.98 | 120000 | 1.30 | | |
| | 5.9 | 12100 | 121.81* | 120000 | 1.50 | | |
| | 4.2 | 17100 | 229.71 | 120000 | 1.05 | TR 168 | MY 160M6 164 |
| | 5.1 | 13900 | 186.93* | 120000 | 1.30 | TRF 168 | MY 160M6 165 |
| | 6.3 | 11400 | 153.07 | 120000 | 1.60 | | |
| | 6.9 | 10400 | 139.98 | 120000 | 1.70 | | |
| | 7.9 | 9090 | 121.81* | 120000 | 2.0 | | |
| | 8.9 | 8020 | 107.49 | 120000 | 2.2 | | |
| | 10 | 6950 | 93.19 | 120000 | 2.6 | | |
| | 12 | 6190 | 82.91* | 120000 | 2.9 | | |
| | 13 | 5500 | 73.70* | 120000 | 3.3 | | |
| | 14 | 5030 | 67.40 | 120000 | 3.6 | | |
| | 4.4 | 16200 | 163.31 | 32800 | 0.80 | TR 148 | MY 160L8 162 |
| | 4.9 | 14600 | 146.91 | 55100 | 0.90 | TRF 148 | MY 160L8 163 |
| | 6.0 | 11900 | 119.86 | 64700 | 1.10 | | |
| | 6.6 | 10900 | 109.31 | 66500 | 1.20 | | |
| | 5.9 | 12200 | 163.31 | 64200 | 1.05 | TR 148 | MY 160M6 162 |
| | 6.5 | 11000 | 146.91 | 66300 | 1.20 | TRF 148 | MY 160M6 163 |
| | 8.0 | 8940 | 119.86 | 69200 | 1.45 | | |
| 8.8 | 8150 | 109.31 | 70100 | 1.60 | | | |
| 10 | 7060 | 94.60* | 71300 | 1.85 | | | |
| 12 | 6230 | 83.47 | 72000 | 2.1 | | | |
| 7.6 | 9440 | 188.45 | 45300 | 0.85 | TR 138 | MY 132M4 160 | |
| 8.2 | 8730 | 174.40* | 50800 | 0.90 | TRF 138 | MY 132M4 161 | |
| 9.2 | 7830 | 156.31 | 53700 | 1.00 | | | |
| 10 | 7070 | 141.12* | 55200 | 1.15 | | | |
| 11 | 6420 | 128.18 | 56400 | 1.25 | | | |
| 13 | 5700 | 113.72 | 57500 | 1.40 | | | |
| 14 | 5170 | 103.20* | 58200 | 1.55 | | | |

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| 7.5 | 16 | 4440 | 88.70* | 59100 | 1.80 | TR | 138 | MY 132M4 | 160 |
| | 18 | 4050 | 80.91* | 59500 | 1.95 | TRF | 138 | MY 132M4 | 161 |
| | 19 | 3680 | 73.49 | 59800 | 2.2 | | | | |
| | 22 | 3270 | 65.20 | 60100 | 2.5 | | | | |
| | 24 | 2960 | 59.17* | 60400 | 2.7 | | | | |
| | 28 | 2550 | 50.86* | 60600 | 3.1 | | | | |
| | 15 | 4640 | 92.70 | 27500 | 0.95 | TR | 108 | MY 132M4 | 158 |
| | 18 | 3940 | 78.57 | 31300 | 1.10 | TRF | 108 | MY 132M4 | 159 |
| | 20 | 3650 | 72.88 | 31300 | 1.20 | | | | |
| | 22 | 3290 | 65.60* | 30600 | 1.30 | | | | |
| | 24 | 2980 | 59.41 | 30000 | 1.45 | | | | |
| | 27 | 2640 | 52.68 | 29200 | 1.65 | | | | |
| | 30 | 2390 | 47.63 | 28500 | 1.80 | | | | |
| | 35 | 2020 | 40.37* | 27300 | 2.1 | | | | |
| | 41 | 1770 | 35.26 | 26400 | 2.4 | | | | |
| | 48 | 1480 | 29.49 | 25200 | 2.9 | | | | |
| | 46 | 1540 | 30.77 | 25500 | 2.8 | TR | 108 | MY 132M4 | 158 |
| | 52 | 1380 | 27.58 | 24700 | 3.1 | TRF | 108 | MY 132M4 | 159 |
| | 57 | 1250 | 24.90* | 24100 | 3.5 | | | | |
| | 63 | 1130 | 22.62 | 23400 | 3.8 | | | | |
| | 24 | 3000 | 59.92 | 19700 | 1.00 | TR | 98 | MY 132M4 | 156 |
| | 27 | 2670 | 53.21 | 22200 | 1.15 | TRF | 98 | MY 132M4 | 157 |
| | 30 | 2380 | 47.58 | 21800 | 1.25 | | | | |
| | 33 | 2140 | 42.78 | 21300 | 1.40 | | | | |
| | 39 | 1860 | 37.13 | 20700 | 1.60 | | | | |
| | 43 | 1670 | 33.25 | 20200 | 1.75 | | | | |
| | 52 | 1380 | 27.58 | 19400 | 1.95 | | | | |
| | 45 | 1610 | 32.05 | 20000 | 1.60 | TR | 98 | MY 132M4 | 156 |
| | 53 | 1360 | 27.19 | 19300 | 1.90 | TRF | 98 | MY 132M4 | 157 |
| | 57 | 1250 | 25.03 | 18900 | 2.3 | | | | |
| | 64 | 1120 | 22.37 | 18400 | 2.4 | | | | |
| | 71 | 1010 | 20.14 | 17900 | 2.6 | | | | |
| | 78 | 910 | 18.24 | 17500 | 2.7 | | | | |
| | 39 | 1840 | 36.84* | 11500 | 0.85 | TR | 88 | MY 132M4 | 153 |
| | 44 | 1640 | 32.66* | 15700 | 0.95 | TRF | 88 | MY 132M4 | 154 |
| | 51 | 1400 | 27.88 | 15200 | 1.05 | | | | |
| | 51 | 1390 | 27.84* | 15200 | 1.10 | TR | 88 | MY 132M4 | 153 |
| | 61 | 1170 | 23.40 | 14700 | 1.30 | TRF | 88 | MY 132M4 | 154 |
| | 66 | 1080 | 21.51 | 14500 | 1.40 | | | | |
| | 75 | 960 | 19.10 | 14100 | 1.50 | | | | |
| | 84 | 860 | 17.08* | 13700 | 1.65 | | | | |
| | 93 | 770 | 15.35 | 12500 | 1.75 | | | | |
| | 107 | 670 | 13.33 | 12900 | 1.90 | | | | |
| | 120 | 600 | 11.93 | 12600 | 2.1 | | | | |
| | 144 | 495 | 9.90* | 12000 | 2.4 | | | | |
| | 156 | 460 | 9.14* | 11900 | 2.6 | | | | |
| | 174 | 410 | 8.22 | 11600 | 2.8 | | | | |
| | 200 | 355 | 7.13 | 11100 | 3.0 | | | | |
| 224 | 320 | 6.39 | 10800 | 3.2 | | | | | |
| 270 | 265 | 5.30* | 10200 | 3.4 | | | | | |
| 76 | 940 | 18.80 | 5310 | 0.85 | TR | 78 | MY 132M4 | 150 | |
| 80 | 890 | 17.82* | 5720 | 0.85 | TRF | 78 | MY 132M4 | 151 | |
| 92 | 780 | 15.60 | 6610 | 0.95 | | | | | |
| 102 | 705 | 14.05 | 7180 | 1.00 | | | | | |
| 116 | 615 | 12.33 | 7750 | 1.10 | | | | | |
| 131 | 545 | 10.88 | 8010 | 1.20 | | | | | |
| 148 | 485 | 9.64 | 7810 | 1.30 | | | | | |
| 166 | 430 | 8.59 | 7620 | 1.45 | | | | | |
| 185 | 390 | 7.74 | 7590 | 1.55 | | | | | |
| 211 | 340 | 6.79 | 7340 | 1.70 | | | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s | | | | Page |
|------------------|------------------|------------------|--------|-----------------|-------------|-------------|-----------------|-----------------|------|
| 7.5 | 239 | 300 | 5.99* | 7110 | 1.80 | TR | 78 | MY 132M4 | 150 |
| | 269 | 265 | 5.31* | 6890 | 1.90 | TRF | 78 | MY 132M4 | 151 |
| | 113 | 635 | 12.70 | 4240 | 0.80 | TR | 68 | MY 132M4 | 147 |
| | 124 | 580 | 11.54 | 4860 | 0.85 | TRF | 68 | MY 132M4 | 148 |
| | 143 | 500 | 10.00 | 5620 | 0.95 | | | | |
| | 164 | 435 | 8.70* | 5930 | 1.00 | | | | |
| | 183 | 390 | 7.79 | 5500 | 0.95 | | | | |
| | 194 | 370 | 7.36* | 5720 | 1.00 | | | | |
| | 228 | 315 | 6.27 | 5600 | 1.05 | | | | |
| | 251 | 285 | 5.70 | 5480 | 1.10 | | | | |
| | 290 | 245 | 4.93 | 5300 | 1.15 | | | | |
| | 333 | 215 | 4.29 | 5130 | 1.25 | | | | |
| | 179 | 400 | 7.97 | 980 | 0.90 | TR | 58 | MY 132M4 | 144 |
| | 190 | 375 | 7.53 | 1280 | 0.95 | TRF | 58 | MY 132M4 | 145 |
| | 223 | 320 | 6.41 | 2020 | 1.05 | | | | |
| | 246 | 290 | 5.82 | 2380 | 1.10 | | | | |
| | 283 | 255 | 5.05 | 2760 | 1.20 | | | | |
| | 326 | 220 | 4.39 | 2710 | 1.25 | | | | |
| | 196 | 365 | 14.77* | 2580 | 1.20 | TR | 58 | MY 132M2 | 144 |
| | 208 | 345 | 13.95* | 2780 | 1.25 | TRF | 58 | MY 132M2 | 145 |
| | 244 | 295 | 11.88 | 2780 | 1.40 | | | | |
| | 269 | 265 | 10.79 | 2750 | 1.45 | | | | |
| | 310 | 230 | 9.35 | 2710 | 1.60 | | | | |
| | 364 | 197 | 7.97 | 2670 | 1.80 | | | | |
| | 385 | 186 | 7.53 | 2640 | 1.90 | | | | |
| | 452 | 158 | 6.41 | 2570 | 2.1 | | | | |
| | 498 | 144 | 5.82 | 2520 | 2.2 | | | | |
| | 575 | 125 | 5.05 | 2440 | 2.5 | | | | |
| | 660 | 108 | 4.39 | 2370 | 2.6 | | | | |
| | 216 | 330 | 6.63* | 10100 | 1.40 | TRX | 108 | MY 132M4 | 130 |
| | 255 | 280 | 5.61 | 9690 | 1.60 | TRXF | 108 | MY 132M4 | 131 |
| | 276 | 260 | 5.19 | 9490 | 2.7 | | | | |
| | 307 | 235 | 4.65 | 9210 | 3.0 | | | | |
| | 340 | 210 | 4.20* | 8950 | 3.9 | | | | |
| | 247 | 290 | 5.79 | 8080 | 1.45 | TRX | 98 | MY 132M4 | 128 |
| | 291 | 245 | 4.91 | 7750 | 1.60 | TRXF | 98 | MY 132M4 | 129 |
| | 316 | 225 | 4.52 | 7580 | 2.6 | | | | |
| | 354 | 205 | 4.04 | 7360 | 2.9 | | | | |
| | 393 | 182 | 3.64* | 7160 | 3.3 | | | | |
| | 434 | 165 | 3.30 | 6960 | 3.6 | | | | |
| | 489 | 146 | 2.92 | 6730 | 4.1 | | | | |
| | 318 | 225 | 4.50* | 5760 | 1.30 | TRX | 88 | MY 132M4 | 126 |
| | 378 | 189 | 3.78 | 5530 | 1.60 | TRXF | 88 | MY 132M4 | 127 |
| | 411 | 174 | 3.48 | 5420 | 2.3 | | | | |
| | 463 | 155 | 3.09 | 5260 | 2.6 | | | | |
| | 518 | 138 | 2.76* | 5110 | 2.9 | | | | |
| | 576 | 124 | 2.48 | 4970 | 3.3 | | | | |
| 664 | 108 | 2.15 | 4780 | 3.6 | | | | | |
| 741 | 97 | 1.93 | 4640 | 3.7 | | | | | |
| 894 | 80 | 1.60* | 4400 | 3.9 | | | | | |
| 1030 | 70 | 1.39 | 4230 | 4.2 | | | | | |
| 440 | 163 | 3.25* | 3820 | 1.10 | TRX | 78 | MY 132M4 | 124 | |
| 464 | 154 | 3.08* | 3890 | 1.25 | TRXF | 78 | MY 132M4 | 125 | |
| 530 | 135 | 2.70 | 3820 | 1.60 | | | | | |
| 589 | 122 | 2.43 | 3730 | 1.75 | | | | | |
| 671 | 107 | 2.13 | 3620 | 1.85 | | | | | |
| 761 | 94 | 1.88* | 3510 | 2.0 | | | | | |
| 858 | 84 | 1.67 | 3400 | 2.1 | | | | | |
| 1005 | 71 | 1.42 | 3260 | 2.2 | | | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
|------------------|------------------|------------------|---------|-----------------|--------|--|---------------|
| 7.5 | 563 | 127 | 2.54 | 1500 | 0.95 | TRX 68 | MY 132M4 122 |
| | 596 | 120 | 2.40* | 1610 | 1.00 | TRXF 68 | MY 132M4 123 |
| | 700 | 102 | 2.04 | 1810 | 1.30 | | |
| | 770 | 93 | 1.86 | 1930 | 1.35 | | |
| | 889 | 81 | 1.61 | 2060 | 1.40 | | |
| | 1020 | 70 | 1.40* | 2080 | 1.50 | | |
| 9.2 | 3.8 | 21400 | 376 | 120000 | 0.85 | TR 168 / TRF98 | MY 132ML4 166 |
| | 4.3 | 19000 | 335 | 120000 | 0.95 | TRF 168 / TRF98 | MY 132ML4 166 |
| | 4.8 | 17100 | 303 | 120000 | 1.05 | | |
| | 5.2 | 15700 | 279 | 120000 | 1.15 | | |
| | 5.1 | 15900 | 280 | 37800 | 0.80 | TR 148 / TRF88 | MY 132ML4 166 |
| | 5.8 | 14000 | 247 | 60400 | 0.95 | TRF 148 / TRF88 | MY 132ML4 166 |
| | 6.7 | 12100 | 214 | 64300 | 1.05 | | |
| | 7.6 | 10700 | 189 | 66700 | 1.20 | | |
| | 9.1 | 9020 | 159 | 69100 | 1.45 | | |
| | 8.8 | 9960 | 163.31 | 67800 | 1.30 | TR 148 | MY 132ML4 162 |
| | 9.8 | 8960 | 146.91 | 69200 | 1.45 | TRF 148 | MY 132ML4 163 |
| | 12 | 7310 | 119.86 | 71000 | 1.80 | | |
| | 13 | 6670 | 109.31 | 71600 | 1.95 | TR 148 | MY 132ML4 162 |
| | 15 | 5770 | 94.60* | 72400 | 2.3 | TRF 148 | MY 132ML4 163 |
| | 17 | 5090 | 83.47 | 72900 | 2.6 | | |
| | 20 | 4400 | 72.09 | 73300 | 3.0 | | |
| | 22 | 4090 | 66.99 | 73500 | 3.2 | | |
| | 9.2 | 9540 | 156.31 | 43400 | 0.85 | TR 138 | MY 132ML4 160 |
| | 10 | 8610 | 141.12* | 51400 | 0.95 | TRF 138 | MY 132ML4 161 |
| | 11 | 7820 | 128.18 | 53800 | 1.00 | | |
| | 13 | 6940 | 113.72 | 55500 | 1.15 | | |
| | 14 | 6300 | 103.20* | 56600 | 1.25 | TR 138 | MY 132ML4 160 |
| | 16 | 5410 | 88.70* | 57900 | 1.50 | TRF 138 | MY 132ML4 161 |
| | 18 | 4940 | 80.91* | 58500 | 1.60 | | |
| | 20 | 4480 | 73.49 | 59000 | 1.80 | | |
| | 22 | 3980 | 65.20 | 59500 | 2.0 | | |
| | 24 | 3610 | 59.17* | 59900 | 2.2 | | |
| | 28 | 3100 | 50.86* | 60300 | 2.6 | | |
| | 32 | 2710 | 44.39 | 60500 | 3.0 | | |
| | 18 | 4790 | 78.57 | 23300 | 0.90 | TR 108 | MY 132ML4 158 |
| | 20 | 4450 | 72.88 | 28600 | 0.95 | TRF 108 | MY 132ML4 159 |
| | 22 | 4000 | 65.60* | 29400 | 1.05 | | |
| | 24 | 3620 | 59.41 | 28800 | 1.20 | | |
| | 27 | 3210 | 52.68 | 28100 | 1.35 | | |
| | 30 | 2910 | 47.63 | 27500 | 1.50 | | |
| | 36 | 2460 | 40.37* | 26500 | 1.75 | | |
| | 41 | 2150 | 35.26 | 25700 | 2.0 | | |
| | 49 | 1800 | 29.49 | 24600 | 2.4 | | |
| | 47 | 1880 | 30.77 | 24900 | 2.3 | TR 108 | MY 132ML4 158 |
| | 52 | 1680 | 27.58 | 24200 | 2.6 | TRF 108 | MY 132ML4 159 |
| | 58 | 1520 | 24.90* | 23500 | 2.8 | | |
| | 64 | 1380 | 22.62 | 23000 | 3.1 | | |
| 72 | 1220 | 20.07 | 22200 | 3.5 | | | |
| 27 | 3250 | 53.21 | 3280 | 0.90 | TR 98 | MY 132ML4 156 | |
| 30 | 2900 | 47.58 | 20600 | 1.05 | TRF 98 | MY 132ML4 157 | |
| 34 | 2610 | 42.78 | 20300 | 1.15 | | | |
| 39 | 2270 | 37.13 | 19800 | 1.30 | | | |
| 43 | 2030 | 33.25 | 19400 | 1.40 | | | |
| 52 | 1680 | 27.58 | 18700 | 1.60 | | | |
| 58 | 1530 | 25.03 | 18300 | 1.85 | TR 98 | MY 132ML4 156 | |
| 64 | 1370 | 22.37 | 17900 | 2.0 | TRF 98 | MY 132ML4 157 | |
| 71 | 1230 | 20.14 | 17400 | 2.1 | | | |
| 79 | 1110 | 18.24 | 17000 | 2.3 | | | |
| 89 | 990 | 16.17 | 16500 | 2.4 | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | Fr_2 [N] | f_s | | | | Page |
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| 9.2 | 98 | 890 | 14.62 | 16100 | 2.6 | TR | 98 | MY 132ML4 | 156 |
| | 116 | 755 | 12.39 | 15400 | 2.9 | TRF | 98 | MY 132ML4 | 157 |
| | 67 | 1310 | 21.51 | 13900 | 1.15 | TR | 88 | MY 132ML4 | 153 |
| | 75 | 1170 | 19.10 | 13600 | 1.25 | TRF | 88 | MY 132ML4 | 154 |
| | 84 | 1040 | 17.08* | 13200 | 1.35 | | | | |
| | 94 | 940 | 15.35 | 13000 | 1.45 | | | | |
| | 108 | 810 | 13.33 | 12600 | 1.55 | | | | |
| | 121 | 730 | 11.93 | 12200 | 1.70 | | | | |
| | 145 | 605 | 9.90* | 11700 | 1.95 | | | | |
| | 158 | 560 | 9.14* | 11700 | 2.2 | | | | |
| | 175 | 500 | 8.22 | 11400 | 2.3 | | | | |
| | 202 | 435 | 7.13 | 10900 | 2.5 | | | | |
| | 225 | 390 | 6.39 | 10600 | 2.6 | | | | |
| | 102 | 860 | 14.05 | 4740 | 0.85 | TR | 78 | MY 132ML4 | 150 |
| | 117 | 750 | 12.33 | 5610 | 0.90 | TRF | 78 | MY 132ML4 | 151 |
| | 132 | 665 | 10.88 | 6280 | 1.00 | | | | |
| | 149 | 590 | 9.64 | 6800 | 1.05 | | | | |
| | 186 | 470 | 7.74 | 6300 | 1.30 | | | | |
| | 212 | 415 | 6.79 | 6720 | 1.40 | | | | |
| | 240 | 365 | 5.99* | 6920 | 1.50 | | | | |
| | 271 | 325 | 5.31* | 6720 | 1.55 | | | | |
| | 277 | 315 | 5.19 | 9240 | 2.2 | TRX | 108 | MY 132ML4 | 130 |
| | 310 | 285 | 4.65 | 8990 | 2.5 | TRXF | 108 | MY 132ML4 | 131 |
| | 343 | 255 | 4.20* | 8760 | 3.2 | | | | |
| | 377 | 235 | 3.81 | 8540 | 3.6 | | | | |
| | 425 | 205 | 3.38 | 8270 | 4.0 | | | | |
| | 318 | 275 | 4.52 | 7370 | 2.2 | TRX | 98 | MY 132ML4 | 128 |
| | 356 | 245 | 4.04 | 7170 | 2.4 | TRXF | 98 | MY 132ML4 | 129 |
| | 396 | 220 | 3.64* | 6980 | 2.7 | | | | |
| | 437 | 200 | 3.30 | 6800 | 3.0 | | | | |
| | 493 | 178 | 2.92 | 6590 | 3.3 | | | | |
| | 545 | 161 | 2.64 | 6410 | 3.7 | | | | |
| | 643 | 137 | 2.24* | 6120 | 4.4 | | | | |
| | 736 | 119 | 1.96 | 5890 | 4.8 | | | | |
| | 880 | 100 | 1.64 | 5590 | 5.1 | | | | |
| | 1015 | 86 | 1.42 | 5360 | 5.3 | | | | |
| | 414 | 210 | 3.48 | 5220 | 1.90 | TRX | 88 | MY 132ML4 | 126 |
| | 466 | 188 | 3.09 | 5080 | 2.2 | TRXF | 88 | MY 132ML4 | 127 |
| | 522 | 168 | 2.76* | 4950 | 2.4 | | | | |
| | 580 | 151 | 2.48 | 4820 | 2.7 | | | | |
| | 669 | 131 | 2.15 | 4650 | 2.9 | | | | |
| | 747 | 118 | 1.93 | 4520 | 3.0 | | | | |
| 900 | 98 | 1.60* | 4300 | 3.2 | | | | | |
| 1035 | 85 | 1.39 | 4140 | 3.4 | | | | | |
| 593 | 148 | 2.43 | 3010 | 1.45 | TRX | 78 | MY 132ML4 | 124 | |
| 676 | 130 | 2.13 | 3160 | 1.55 | TRXF | 78 | MY 132ML4 | 125 | |
| 766 | 115 | 1.88* | 3260 | 1.65 | | | | | |
| 864 | 102 | 1.67 | 3280 | 1.70 | | | | | |
| 1010 | 87 | 1.42 | 3160 | 1.80 | | | | | |
| 11 | 4.9 | 19600 | 295 | 120000 | 0.90 | TR | 168 TRF108 | MY 160M4 | 166 |
| | 5.3 | 18200 | 270 | 120000 | 1.00 | TRF | 168 TRF108 | MY 160M4 | 166 |
| | 6.3 | 15400 | 229 | 120000 | 1.15 | | | | |
| | 7.2 | 13400 | 200 | 120000 | 1.35 | | | | |
| | 8.5 | 11300 | 169 | 120000 | 1.60 | | | | |
| | 5 | 20000 | 291 | 120000 | 0.90 | TR | 168 TRF108 | MY 160M4 | 166 |
| | | | | | | TRF | 168 TRF108 | MY 160M4 | 166 |
| | 4.3 | 22800 | 335 | 120000 | 0.80 | TR | 168 / TRF98 | MY 160M4 | 166 |
| | 4.8 | 20500 | 303 | 120000 | 0.90 | TRF | 168 / TRF98 | MY 160M4 | 166 |
| | 5.2 | 18900 | 279 | 120000 | 0.95 | | | | |
| | 5.8 | 16800 | 247 | 22800 | 0.75 | TR | 148 / TRF88 | MY 160M4 | 166 |
| | 6.7 | 14500 | 214 | 56000 | 0.90 | TRF | 148 / TRF88 | MY 160M4 | 166 |

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| 11 | 7.6 | 12900 | 189 | 63000 | 1.00 | TR 148 / TRF88 | MY 160M4 166 |
| | 9.1 | 10800 | 159 | 66600 | 1.20 | TRF 148 / TRF88 | MY 160M4 166 |
| | 5.1 | 20500 | 186.93* | 120000 | 0.90 | TR 168 | MY 160L6 164 |
| | 6.3 | 16700 | 153.07 | 120000 | 1.05 | TRF 168 | MY 160L6 165 |
| | 6.9 | 15300 | 139.98 | 120000 | 1.20 | | |
| | 7.9 | 13300 | 121.81* | 120000 | 1.35 | | |
| | 6.3 | 16800 | 229.71 | 120000 | 1.05 | TR 168 | MY 160M4 164 |
| | 7.7 | 13600 | 186.93* | 120000 | 1.30 | TRF 168 | MY 160M4 165 |
| | 9.4 | 11200 | 153.07 | 120000 | 1.60 | TR 168 | MY 160M4 164 |
| | 10 | 10200 | 139.98 | 120000 | 1.75 | TRF 168 | MY 160M4 165 |
| | 12 | 8890 | 121.81* | 120000 | 2.0 | | |
| | 13 | 7840 | 107.49 | 120000 | 2.3 | | |
| | 15 | 6800 | 93.19 | 120000 | 2.7 | | |
| | 17 | 6050 | 82.91* | 120000 | 3.0 | | |
| | 6.5 | 16100 | 146.91 | 35400 | 0.80 | TR 148 | MY 160L6 162 |
| | 8.0 | 13100 | 119.86 | 62400 | 1.00 | TRF 148 | MY 160L6 163 |
| | 8.8 | 12000 | 109.31 | 64600 | 1.10 | | |
| | 10 | 10400 | 94.60* | 67300 | 1.25 | | |
| | 12 | 9130 | 83.47 | 69000 | 1.40 | | |
| | 8.8 | 11900 | 163.31 | 64700 | 1.10 | TR 148 | MY 160M4 162 |
| | 9.8 | 10700 | 146.91 | 66700 | 1.20 | TRF 148 | MY 160M4 163 |
| | 12 | 8740 | 119.86 | 69400 | 1.50 | | |
| | 13 | 7970 | 109.31 | 70300 | 1.65 | | |
| | 15 | 6900 | 94.60* | 71400 | 1.90 | | |
| | 17 | 6090 | 83.47 | 72100 | 2.1 | | |
| | 20 | 5260 | 72.09 | 72800 | 2.5 | | |
| | 22 | 4890 | 66.99 | 73000 | 2.7 | | |
| | 24 | 4460 | 61.09 | 73300 | 2.9 | | |
| | 27 | 3860 | 52.87 | 73600 | 3.4 | | |
| | 10 | 10300 | 141.12* | 23300 | 0.80 | TR 138 | MY 160M4 160 |
| | 11 | 9350 | 128.18 | 46900 | 0.85 | TRF 138 | MY 160M4 161 |
| | 13 | 8300 | 113.72 | 52700 | 0.95 | | |
| | 14 | 7530 | 103.20* | 54400 | 1.05 | | |
| | 16 | 6470 | 88.70* | 56300 | 1.25 | | |
| | 18 | 5900 | 80.91* | 57200 | 1.35 | | |
| | 20 | 5360 | 73.49 | 57900 | 1.50 | | |
| | 22 | 4760 | 65.20 | 58700 | 1.70 | | |
| | 24 | 4320 | 59.17* | 59200 | 1.85 | | |
| | 28 | 3710 | 50.86* | 59800 | 2.2 | | |
| | 32 | 3240 | 44.39 | 60200 | 2.5 | | |
| | 38 | 2750 | 37.65 | 60500 | 2.9 | | |
| | 44 | 2400 | 32.91 | 60700 | 3.3 | | |
| | 22 | 4790 | 65.60* | 23700 | 0.90 | TR 108 | MY 160M4 158 |
| | 24 | 4330 | 59.41 | 27600 | 1.00 | TRF 108 | MY 160M4 159 |
| | 27 | 3840 | 52.68 | 27100 | 1.10 | | |
| | 30 | 3470 | 47.63 | 26600 | 1.25 | | |
| | 36 | 2940 | 40.37* | 25700 | 1.45 | | |
| | 41 | 2570 | 35.26 | 25000 | 1.65 | | |
| | 49 | 2150 | 29.49 | 24000 | 2.0 | | |
| | 47 | 2240 | 30.77 | 24200 | 1.90 | TR 108 | MY 160M4 158 |
| | 52 | 2010 | 27.58 | 23600 | 2.1 | TRF 108 | MY 160M4 159 |
| | 58 | 1820 | 24.90* | 23100 | 2.4 | | |
| 64 | 1650 | 22.62 | 22500 | 2.6 | | | |
| 72 | 1460 | 20.07 | 21800 | 2.9 | | | |
| 79 | 1330 | 18.21 | 21300 | 3.2 | | | |
| 34 | 3120 | 42.78 | 14500 | 0.95 | TR 98 | MY 160M4 156 | |
| 39 | 2710 | 37.13 | 18900 | 1.10 | TRF 98 | MY 160M4 157 | |
| 43 | 2430 | 33.25 | 18600 | 1.20 | | | |
| 52 | 2010 | 27.58 | 18000 | 1.35 | | | |

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| 11 | 58 | 1830 | 25.03 | 17700 | 1.55 | TR | 98 | MY 160M4 | 156 |
| | 64 | 1630 | 22.37 | 17300 | 1.65 | TRF | 98 | MY 160M4 | 157 |
| | 71 | 1470 | 20.14 | 16900 | 1.80 | | | | |
| | 79 | 1330 | 18.24 | 16600 | 1.90 | TR | 98 | MY 160M4 | 156 |
| | 89 | 1180 | 16.17 | 16100 | 2.0 | TRF | 98 | MY 160M4 | 157 |
| | 98 | 1070 | 14.62 | 15700 | 2.2 | | | | |
| | 116 | 900 | 12.39 | 15100 | 2.4 | | | | |
| | 133 | 790 | 10.83 | 14600 | 2.7 | | | | |
| | 155 | 675 | 9.29 | 14300 | 3.0 | | | | |
| | 172 | 610 | 8.39 | 13900 | 3.3 | | | | |
| | 202 | 520 | 7.12 | 13200 | 3.9 | | | | |
| | 232 | 455 | 6.21 | 12700 | 4.2 | | | | |
| | 67 | 1570 | 21.51 | 13200 | 0.95 | TR | 88 | MY 160M4 | 153 |
| | 75 | 1390 | 19.10 | 13000 | 1.05 | TRF | 88 | MY 160M4 | 154 |
| | 84 | 1250 | 17.08* | 12800 | 1.10 | | | | |
| | 94 | 1120 | 15.35 | 12500 | 1.20 | TR | 88 | MY 160M4 | 153 |
| | 108 | 970 | 13.33 | 12200 | 1.30 | TRF | 88 | MY 160M4 | 154 |
| | 121 | 870 | 11.93 | 11900 | 1.40 | | | | |
| | 145 | 720 | 9.90* | 11400 | 1.65 | | | | |
| | 158 | 665 | 9.14* | 11500 | 1.80 | | | | |
| | 175 | 600 | 8.22 | 11200 | 1.95 | | | | |
| | 202 | 520 | 7.13 | 10800 | 2.1 | | | | |
| | 225 | 465 | 6.39 | 10400 | 2.2 | | | | |
| | 272 | 385 | 5.30* | 9910 | 2.4 | | | | |
| | 132 | 795 | 10.88 | 4250 | 0.85 | TR | 78 | MY 160M4 | 150 |
| | 149 | 705 | 9.64 | 5000 | 0.90 | TRF | 78 | MY 160M4 | 151 |
| | 186 | 565 | 7.74 | 4630 | 1.10 | | | | |
| | 212 | 495 | 6.79 | 5250 | 1.15 | | | | |
| | 240 | 435 | 5.99* | 5720 | 1.25 | | | | |
| | 271 | 390 | 5.31* | 6090 | 1.30 | | | | |
| | 277 | 380 | 5.19 | 9000 | 1.85 | TRX | 108 | MY 160M4 | 130 |
| | 310 | 340 | 4.65 | 8770 | 2.1 | TRXF | 108 | MY 160M4 | 131 |
| | 343 | 305 | 4.20* | 8560 | 2.7 | | | | |
| | 377 | 280 | 3.81 | 8360 | 3.0 | | | | |
| | 425 | 245 | 3.38 | 8100 | 3.4 | | | | |
| | 469 | 225 | 3.07 | 7900 | 3.7 | | | | |
| | 545 | 193 | 2.64* | 7580 | 4.3 | | | | |
| | 318 | 330 | 4.52 | 7150 | 1.80 | TRX | 98 | MY 160M4 | 128 |
| | 356 | 295 | 4.04 | 6970 | 2.0 | TRXF | 98 | MY 160M4 | 129 |
| | 396 | 265 | 3.64* | 6800 | 2.2 | | | | |
| | 437 | 240 | 3.30 | 6640 | 2.5 | | | | |
| | 493 | 215 | 2.92 | 6440 | 2.8 | | | | |
| | 545 | 193 | 2.64 | 6280 | 3.1 | | | | |
| | 643 | 163 | 2.24* | 6000 | 3.6 | | | | |
| | 736 | 143 | 1.96 | 5790 | 4.0 | | | | |
| | 880 | 119 | 1.64 | 5500 | 4.2 | | | | |
| | 1015 | 103 | 1.42 | 5280 | 4.4 | | | | |
| | 414 | 255 | 3.48 | 5030 | 1.60 | TRX | 88 | MY 160M4 | 126 |
| | 466 | 225 | 3.09 | 4910 | 1.80 | TRXF | 88 | MY 160M4 | 127 |
| | 522 | 200 | 2.76* | 4790 | 2.0 | | | | |
| 580 | 181 | 2.48 | 4680 | 2.2 | | | | | |
| 669 | 157 | 2.15 | 4530 | 2.5 | | | | | |
| 747 | 141 | 1.93 | 4400 | 2.5 | | | | | |
| 900 | 117 | 1.60* | 4200 | 2.7 | | | | | |
| 1035 | 102 | 1.39 | 4050 | 2.9 | | | | | |
| 593 | 177 | 2.43 | 1890 | 1.20 | TRX | 78 | MY 160M4 | 124 | |
| 676 | 155 | 2.13 | 2140 | 1.30 | TRXF | 78 | MY 160M4 | 125 | |
| 766 | 137 | 1.88* | 2330 | 1.35 | | | | | |
| 864 | 122 | 1.67 | 2460 | 1.40 | TRX | 78 | MY 160M4 | 124 | |
| 1010 | 104 | 1.42 | 2580 | 1.50 | TRXF | 78 | MY 160M4 | 125 | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | | | | | Page |
|------------------|------------------|------------------|---------|-----------------|-------|--|-----|--------|-------|-------|------|
| 15 | 6.4 | 20800 | 229 | 120000 | 0.85 | TR | 168 | TRF108 | MY | 160L4 | 166 |
| | 7.3 | 18200 | 200 | 120000 | 1.00 | TRF | 168 | TRF108 | MY | 160L4 | 166 |
| | 8.6 | 15300 | 169 | 120000 | 1.20 | | | | | | |
| | 6.4 | 20900 | 227 | 120000 | 0.85 | TR | 168 | TRF108 | MY | 160L4 | 166 |
| | 7.4 | 18200 | 198 | 120000 | 1.00 | TRF | 168 | TRF108 | MY | 160L4 | 166 |
| | 6.3 | 22600 | 153.07 | 120000 | 0.80 | TR | 168 | | MY | 180L6 | 164 |
| | 6.9 | 20700 | 139.98 | 120000 | 0.85 | TRF | 168 | | MY | 180L6 | 165 |
| | 8.0 | 18000 | 121.81* | 120000 | 1.00 | | | | | | |
| | 9.0 | 15900 | 107.49 | 120000 | 1.15 | | | | | | |
| | 6.4 | 22500 | 229.71 | 120000 | 0.80 | TR | 168 | | MY | 160L4 | 164 |
| | 7.8 | 18300 | 186.93* | 120000 | 1.00 | TRF | 168 | | MY | 160L4 | 165 |
| | 9.5 | 15000 | 153.07 | 120000 | 1.20 | TR | 168 | | MY | 160L4 | 164 |
| | 10 | 13700 | 139.98 | 120000 | 1.30 | TRF | 168 | | MY | 160L4 | 165 |
| | 12 | 12000 | 121.81* | 120000 | 1.50 | | | | | | |
| | 14 | 10500 | 107.49 | 120000 | 1.70 | | | | | | |
| | 16 | 9140 | 93.19 | 120000 | 1.95 | | | | | | |
| | 18 | 8130 | 82.91* | 120000 | 2.2 | | | | | | |
| | 20 | 7230 | 73.70* | 120000 | 2.5 | | | | | | |
| | 22 | 6610 | 67.40 | 120000 | 2.7 | | | | | | |
| | 8.9 | 16100 | 109.31 | 34400 | 0.80 | TR | 148 | | MY | 180L6 | 162 |
| | 10 | 14000 | 94.60* | 60600 | 0.95 | TRF | 148 | | MY | 180L6 | 163 |
| | 12 | 12300 | 83.47 | 64000 | 1.05 | | | | | | |
| | 13 | 10600 | 72.09 | 66800 | 1.20 | | | | | | |
| | 14 | 9890 | 66.99 | 67900 | 1.30 | | | | | | |
| | 8.9 | 16000 | 163.31 | 36200 | 0.80 | TR | 148 | | MY | 160L4 | 162 |
| | 9.9 | 14400 | 146.91 | 57400 | 0.90 | TRF | 148 | | MY | 160L4 | 163 |
| | 12 | 11800 | 119.86 | 65000 | 1.10 | | | | | | |
| | 13 | 10700 | 109.31 | 66700 | 1.20 | | | | | | |
| | 15 | 9280 | 94.60* | 68800 | 1.40 | TR | 148 | | MY | 160L4 | 162 |
| | 17 | 8190 | 83.47 | 70100 | 1.60 | TRF | 148 | | MY | 160L4 | 163 |
| | 20 | 7070 | 72.09 | 71300 | 1.85 | | | | | | |
| | 22 | 6570 | 66.99 | 71700 | 2.0 | | | | | | |
| | 24 | 5990 | 61.09 | 72200 | 2.2 | | | | | | |
| | 28 | 5190 | 52.87 | 72800 | 2.5 | | | | | | |
| | 31 | 4580 | 46.65 | 73200 | 2.8 | | | | | | |
| | 14 | 10100 | 103.20* | 30700 | 0.80 | TR | 138 | | MY | 160L4 | 160 |
| | 16 | 8700 | 88.70* | 51000 | 0.90 | TRF | 138 | | MY | 160L4 | 161 |
| | 18 | 7940 | 80.91* | 53500 | 1.00 | | | | | | |
| | 20 | 7210 | 73.49 | 55000 | 1.10 | | | | | | |
| | 22 | 6400 | 65.20 | 56400 | 1.25 | | | | | | |
| | 25 | 5800 | 59.17* | 57300 | 1.40 | | | | | | |
| | 29 | 4990 | 50.86* | 58400 | 1.60 | | | | | | |
| | 33 | 4360 | 44.39 | 59100 | 1.85 | | | | | | |
| | 39 | 3690 | 37.65 | 59800 | 2.2 | | | | | | |
| | 44 | 3230 | 32.91 | 60200 | 2.5 | | | | | | |
| | 52 | 2730 | 27.83 | 60500 | 2.8 | | | | | | |
| | 31 | 4670 | 47.63 | 24500 | 0.90 | TR | 108 | | MY | 160L4 | 158 |
| | 36 | 3960 | 40.37* | 23900 | 1.10 | TRF | 108 | | MY | 160L4 | 159 |
| 41 | 3460 | 35.26 | 23400 | 1.25 | | | | | | | |
| 50 | 2890 | 29.49 | 22600 | 1.50 | | | | | | | |
| 47 | 3020 | 30.77 | 22800 | 1.40 | TR | 108 | | MY | 160L4 | 158 | |
| 53 | 2710 | 27.58 | 22400 | 1.60 | TRF | 108 | | MY | 160L4 | 159 | |
| 59 | 2440 | 24.90* | 21900 | 1.75 | | | | | | | |
| 65 | 2220 | 22.62 | 21400 | 1.95 | | | | | | | |
| 73 | 1970 | 20.07 | 20900 | 2.2 | | | | | | | |
| 80 | 1790 | 18.21 | 20400 | 2.4 | | | | | | | |
| 93 | 1540 | 15.65 | 19700 | 2.8 | | | | | | | |
| 107 | 1340 | 13.66 | 19000 | 3.2 | | | | | | | |
| 53 | 2710 | 27.58 | 16500 | 1.00 | TR | 98 | | MY | 160L4 | 156 | |
| | | | | | TRF | 98 | | MY | 160L4 | 157 | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
|------------------|------------------|------------------|---------|-----------------|---------|--|--------------|
| 15 | 58 | 2460 | 25.03 | 16300 | 1.15 | TR 98 | MY 160L4 156 |
| | 65 | 2200 | 22.37 | 16100 | 1.25 | TRF 98 | MY 160L4 157 |
| | 72 | 1980 | 20.14 | 15800 | 1.30 | | |
| | 80 | 1790 | 18.24 | 15600 | 1.40 | | |
| | 90 | 1590 | 16.17 | 15200 | 1.50 | | |
| | 100 | 1430 | 14.62 | 14900 | 1.60 | | |
| | 118 | 1220 | 12.39 | 14400 | 1.80 | | |
| | 135 | 1060 | 10.83 | 14000 | 1.95 | | |
| | 157 | 910 | 9.29 | 13800 | 2.2 | | |
| | 174 | 820 | 8.39 | 13400 | 2.5 | | |
| | 205 | 700 | 7.12 | 12800 | 2.9 | | |
| | 235 | 610 | 6.21 | 12400 | 3.1 | | |
| | 85 | 1680 | 17.08* | 11600 | 0.85 | TR 88 | MY 160L4 153 |
| | 95 | 1510 | 15.35 | 11500 | 0.90 | TRF 88 | MY 160L4 154 |
| | 110 | 1310 | 13.33 | 11300 | 1.00 | | |
| | 122 | 1170 | 11.93 | 11100 | 1.05 | | |
| | 147 | 970 | 9.90* | 10700 | 1.20 | TR 88 | MY 160L4 153 |
| | 160 | 900 | 9.14* | 11000 | 1.35 | TRF 88 | MY 160L4 154 |
| | 178 | 810 | 8.22 | 10700 | 1.45 | | |
| | 205 | 700 | 7.13 | 10300 | 1.55 | | |
| | 229 | 625 | 6.39 | 10100 | 1.65 | | |
| | 275 | 520 | 5.30* | 9600 | 1.75 | | |
| | 281 | 510 | 5.19 | 8440 | 1.35 | TRX 108 | MY 160L4 130 |
| | 314 | 455 | 4.65 | 8260 | 1.50 | TRXF 108 | MY 160L4 131 |
| | 348 | 410 | 4.20* | 8100 | 2.0 | | |
| | 383 | 375 | 3.81 | 7930 | 2.2 | | |
| | 431 | 330 | 3.38 | 7720 | 2.5 | | |
| | 475 | 300 | 3.07 | 7540 | 2.8 | | |
| | 553 | 260 | 2.64* | 7260 | 3.2 | | |
| | 634 | 225 | 2.30 | 7010 | 3.7 | | |
| | 747 | 192 | 1.95 | 6710 | 4.0 | | |
| | 855 | 168 | 1.71 | 6470 | 4.2 | | |
| | 1010 | 142 | 1.44 | 6170 | 4.6 | | |
| | 323 | 445 | 4.52 | 6660 | 1.35 | TRX 98 | MY 160L4 128 |
| | 361 | 395 | 4.04 | 6530 | 1.50 | TRXF 98 | MY 160L4 129 |
| | 401 | 355 | 3.64* | 6400 | 1.65 | | |
| | 443 | 325 | 3.30 | 6270 | 1.85 | | |
| | 499 | 285 | 2.92 | 6110 | 2.1 | | |
| | 552 | 260 | 2.64 | 5970 | 2.3 | | |
| | 652 | 220 | 2.24* | 5730 | 2.7 | | |
| 746 | 192 | 1.96 | 5550 | 3.0 | | | |
| 892 | 161 | 1.64 | 5290 | 3.2 | | | |
| 1030 | 139 | 1.42 | 5090 | 3.3 | | | |
| 420 | 340 | 3.48 | 4260 | 1.20 | TRX 88 | MY 160L4 126 | |
| 473 | 305 | 3.09 | 4510 | 1.35 | TRXF 88 | MY 160L4 127 | |
| 529 | 270 | 2.76* | 4430 | 1.50 | | | |
| 588 | 245 | 2.48 | 4350 | 1.65 | | | |
| 678 | 210 | 2.15 | 4230 | 1.80 | | | |
| 757 | 189 | 1.93 | 4130 | 1.90 | | | |
| 913 | 157 | 1.60* | 3960 | 2.0 | | | |
| 1050 | 137 | 1.39 | 3840 | 2.1 | | | |
| 18.5 | 7.8 | 22500 | 186.93* | 120000 | 0.80 | TR 168 | MY 180M4 164 |
| | 9.6 | 18500 | 153.07 | 120000 | 1.00 | TRF 168 | MY 180M4 165 |
| | 10 | 16900 | 139.98 | 120000 | 1.05 | | |
| | 12 | 14700 | 121.81* | 120000 | 1.25 | | |
| | 14 | 13000 | 107.49 | 120000 | 1.40 | TR 168 | MY 180M4 164 |
| | 16 | 11200 | 93.19 | 120000 | 1.60 | TRF 168 | MY 180M4 165 |
| | 18 | 10000 | 82.91* | 120000 | 1.80 | | |
| | 20 | 8890 | 73.70* | 120000 | 2.0 | | |
| | 22 | 8130 | 67.40 | 120000 | 2.2 | | |
| | 25 | 7070 | 58.65 | 120000 | 2.6 | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
|------------------|------------------|------------------|--------|-----------------|----------|--|--------------|
| 18.5 | 12 | 14500 | 119.86 | 56900 | 0.90 | TR 148 | MY 180M4 162 |
| | 13 | 13200 | 109.31 | 62300 | 1.00 | TRF 148 | MY 180M4 163 |
| | 15 | 11400 | 94.60* | 65600 | 1.15 | | |
| | 18 | 10100 | 83.47 | 67700 | 1.30 | | |
| | 20 | 8690 | 72.09 | 69500 | 1.50 | | |
| | 22 | 8080 | 66.99 | 70200 | 1.60 | | |
| | 24 | 7370 | 61.09 | 71000 | 1.75 | | |
| | 28 | 6380 | 52.87 | 71900 | 2.0 | | |
| | 31 | 5630 | 46.65 | 72500 | 2.3 | | |
| | 36 | 4860 | 40.29 | 73000 | 2.7 | | |
| | 18 | 9760 | 80.91* | 39000 | 0.80 | TR 138 | MY 180M4 160 |
| | 20 | 8860 | 73.49 | 50200 | 0.90 | TRF 138 | MY 180M4 161 |
| | 22 | 7860 | 65.20 | 53700 | 1.00 | | |
| | 25 | 7140 | 59.17* | 55100 | 1.10 | | |
| | 29 | 6130 | 50.86* | 56800 | 1.30 | | |
| | 33 | 5350 | 44.39 | 58000 | 1.50 | | |
| | 39 | 4540 | 37.65 | 58900 | 1.75 | | |
| | 45 | 3970 | 32.91 | 59500 | 2.0 | | |
| | 53 | 3360 | 27.83 | 60100 | 2.3 | | |
| | 50 | 3570 | 29.57* | 59900 | 2.2 | TR 138 | MY 180M4 160 |
| | 61 | 2910 | 24.12 | 60400 | 2.8 | TRF 138 | MY 180M4 161 |
| | 67 | 2650 | 22.00* | 60600 | 3.0 | | |
| | 77 | 2300 | 19.04* | 60800 | 3.5 | | |
| | 87 | 2030 | 16.80* | 60900 | 4.0 | | |
| | 36 | 4870 | 40.37* | 20200 | 0.90 | TR 108 | MY 180M4 158 |
| | 42 | 4250 | 35.26 | 22000 | 1.00 | TRF 108 | MY 180M4 159 |
| | 50 | 3560 | 29.49 | 21500 | 1.20 | | |
| | 59 | 3000 | 24.90* | 20900 | 1.45 | | |
| | 65 | 2730 | 22.62 | 20600 | 1.60 | | |
| | 73 | 2420 | 20.07 | 20100 | 1.80 | | |
| | 80 | 2200 | 18.21 | 19700 | 1.95 | | |
| | 94 | 1890 | 15.65 | 19100 | 2.3 | | |
| | 107 | 1650 | 13.66 | 18500 | 2.6 | | |
| | 126 | 1400 | 11.59 | 17800 | 3.1 | | |
| | 145 | 1220 | 10.13 | 17200 | 3.5 | | |
| | 186 | 950 | 7.86 | 16300 | 3.1 | | |
| | 220 | 800 | 6.66 | 15600 | 3.7 | | |
| | 73 | 2430 | 20.14 | 14900 | 1.05 | TR 98 | MY 180M4 156 |
| | 80 | 2200 | 18.24 | 14700 | 1.15 | TRF 98 | MY 180M4 157 |
| | 91 | 1950 | 16.17 | 14500 | 1.25 | | |
| | 100 | 1760 | 14.62 | 14200 | 1.30 | | |
| | 118 | 1490 | 12.39 | 13800 | 1.45 | | |
| | 135 | 1310 | 10.83 | 13500 | 1.60 | | |
| | 158 | 1120 | 9.29 | 13400 | 1.80 | | |
| | 175 | 1010 | 8.39 | 13100 | 2.0 | | |
| | 206 | 860 | 7.12 | 12600 | 2.3 | | |
| | 236 | 750 | 6.21 | 12100 | 2.5 | | |
| 282 | 625 | 5.20 | 11600 | 2.8 | | | |
| 326 | 545 | 4.50* | 11100 | 3.0 | | | |
| 110 | 1610 | 13.33 | 10600 | 0.80 | TR 88 | MY 180M4 153 | |
| 123 | 1440 | 11.93 | 10400 | 0.85 | TRF 88 | MY 180M4 154 | |
| 148 | 1190 | 9.90* | 10200 | 1.00 | | | |
| 160 | 1100 | 9.14* | 10600 | 1.10 | | | |
| 178 | 990 | 8.22 | 10300 | 1.15 | | | |
| 205 | 860 | 7.13 | 10000 | 1.25 | | | |
| 229 | 770 | 6.39 | 9770 | 1.30 | | | |
| 276 | 640 | 5.30* | 9350 | 1.40 | | | |
| 349 | 505 | 4.20* | 7710 | 1.65 | TRX 108 | MY 180M4 130 | |
| 384 | 460 | 3.81 | 7580 | 1.80 | TRXF 108 | MY 180M4 131 | |
| 433 | 410 | 3.38 | 7400 | 2.0 | | | |
| 477 | 370 | 3.07 | 7250 | 2.2 | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
|------------------|------------------|------------------|---------|-----------------|----------------|--|---------------------|
| 18.5 | 555 | 320 | 2.64* | 7010 | 2.6 | TRX 108 | MY 180M4 130 |
| | 636 | 280 | 2.30 | 6780 | 3.0 | TRXF 108 | MY 180M4 131 |
| | 750 | 235 | 1.95 | 6510 | 3.3 | | |
| | 858 | 205 | 1.71 | 6290 | 3.4 | | |
| | 1015 | 174 | 1.44 | 6020 | 3.7 | | |
| | 402 | 440 | 3.64* | 6060 | 1.35 | TRX 98 | MY 180M4 128 |
| | 444 | 400 | 3.30 | 5960 | 1.50 | TRXF 98 | MY 180M4 129 |
| | 501 | 355 | 2.92 | 5830 | 1.70 | | |
| | 554 | 320 | 2.64 | 5710 | 1.85 | | |
| | 654 | 270 | 2.24* | 5510 | 2.2 | | |
| | 749 | 235 | 1.96 | 5350 | 2.4 | | |
| | 895 | 197 | 1.64 | 5120 | 2.6 | | |
| | 1035 | 171 | 1.42 | 4940 | 2.7 | | |
| | 531 | 335 | 2.76* | 3040 | 1.20 | TRX 88 | MY 180M4 126 |
| | 590 | 300 | 2.48 | 3340 | 1.35 | TRXF 88 | MY 180M4 127 |
| | 680 | 260 | 2.15 | 3630 | 1.50 | | |
| | 760 | 235 | 1.93 | 3820 | 1.55 | | |
| | 916 | 193 | 1.60* | 3770 | 1.65 | | |
| | 1055 | 168 | 1.39 | 3670 | 1.75 | | |
| | 22 | 9.6 | 22000 | 153.07 | 120000 | 0.80 | TR 168 |
| 10 | | 20100 | 139.98 | 120000 | 0.90 | TRF 168 | MY 180L4 165 |
| 12 | | 17500 | 121.81* | 120000 | 1.05 | | |
| 14 | | 15400 | 107.49 | 120000 | 1.15 | TR 168 | MY 180L4 164 |
| 16 | | 13400 | 93.19 | 120000 | 1.35 | TRF 168 | MY 180L4 165 |
| 18 | | 11900 | 82.91* | 120000 | 1.50 | | |
| 20 | | 10600 | 73.70* | 120000 | 1.70 | | |
| 22 | | 9670 | 67.40 | 120000 | 1.85 | | |
| 25 | | 8410 | 58.65 | 120000 | 2.1 | | |
| 28 | | 7420 | 51.76 | 120000 | 2.4 | | |
| 33 | | 6430 | 44.87 | 120000 | 2.8 | | |
| 13 | | 15700 | 109.31 | 41300 | 0.85 | TR 148 | MY 180L4 162 |
| 15 | | 13600 | 94.60* | 61500 | 0.95 | TRF 148 | MY 180L4 163 |
| 18 | | 12000 | 83.47 | 64600 | 1.10 | | |
| 20 | | 10300 | 72.09 | 67300 | 1.25 | | |
| 22 | | 9610 | 66.99 | 68300 | 1.35 | TR 148 | MY 180L4 162 |
| 24 | | 8760 | 61.09 | 69400 | 1.50 | TRF 148 | MY 180L4 163 |
| 28 | | 7580 | 52.87 | 70800 | 1.70 | | |
| 31 | | 6690 | 46.65 | 71600 | 1.95 | | |
| 36 | | 5780 | 40.29 | 72400 | 2.3 | | |
| 41 | | 5110 | 35.64 | 72900 | 2.5 | | |
| 49 | | 4300 | 29.95 | 73400 | 3.0 | | |
| 22 | | 9350 | 65.20 | 46900 | 0.85 | TR 138 | MY 180L4 160 |
| 25 | | 8480 | 59.17* | 51900 | 0.95 | TRF 138 | MY 180L4 161 |
| 29 | | 7290 | 50.86* | 54800 | 1.10 | | |
| 33 | | 6370 | 44.39 | 56500 | 1.25 | | |
| 39 | | 5400 | 37.65 | 57900 | 1.50 | TR 138 | MY 180L4 160 |
| 45 | | 4720 | 32.91 | 58700 | 1.70 | TRF 138 | MY 180L4 161 |
| 53 | | 3990 | 27.83 | 59500 | 1.90 | | |
| 50 | | 4240 | 29.57* | 59300 | 1.85 | TR 138 | MY 180L4 160 |
| 61 | 3460 | 24.12 | 60000 | 2.3 | TRF 138 | MY 180L4 161 | |
| 67 | 3150 | 22.00* | 60200 | 2.5 | | | |
| 77 | 2730 | 19.04* | 60500 | 2.9 | | | |
| 87 | 2410 | 16.80* | 60700 | 3.3 | TR 138 | MY 180L4 160 | |
| 101 | 2080 | 14.51 | 60900 | 3.9 | TRF 138 | MY 180L4 161 | |
| 114 | 1840 | 12.83 | 61000 | 4.4 | | | |
| 42 | 5060 | 35.26 | 7280 | 0.85 | TR 108 | MY 180L4 158 | |
| 50 | 4230 | 29.49 | 20400 | 1.00 | TRF 108 | MY 180L4 159 | |
| 59 | 3570 | 24.90* | 20000 | 1.20 | TR 108 | MY 180L4 158 | |
| 65 | 3240 | 22.62 | 19700 | 1.35 | TRF 108 | MY 180L4 159 | |
| 73 | 2880 | 20.07 | 19300 | 1.50 | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
|------------------|------------------|------------------|--------|-----------------|---------|--|--------------|
| 22 | 80 | 2610 | 18.21 | 19000 | 1.65 | TR 108 | MY 180L4 158 |
| | 94 | 2240 | 15.65 | 18500 | 1.90 | TRF 108 | MY 180L4 159 |
| | 107 | 1960 | 13.66 | 18000 | 2.2 | | |
| | 126 | 1660 | 11.59 | 17300 | 2.6 | | |
| | 145 | 1450 | 10.13 | 16800 | 3.0 | | |
| | 171 | 1230 | 8.56 | 16100 | 3.5 | | |
| | 186 | 1130 | 7.86 | 16100 | 2.6 | | |
| | 220 | 960 | 6.66 | 15400 | 3.1 | | |
| | 252 | 840 | 5.82 | 14800 | 3.6 | | |
| | 73 | 2890 | 20.14 | 14000 | 0.90 | TR 98 | MY 180L4 156 |
| | 80 | 2620 | 18.24 | 13900 | 0.95 | TRF 98 | MY 180L4 157 |
| | 91 | 2320 | 16.17 | 13700 | 1.05 | | |
| | 100 | 2100 | 14.62 | 13600 | 1.10 | | |
| | 118 | 1780 | 12.39 | 13200 | 1.25 | | |
| | 135 | 1550 | 10.83 | 13000 | 1.35 | | |
| | 158 | 1330 | 9.29 | 13100 | 1.50 | | |
| | 175 | 1200 | 8.39 | 12800 | 1.70 | | |
| | 206 | 1020 | 7.12 | 12300 | 1.95 | | |
| | 236 | 890 | 6.21 | 11900 | 2.1 | | |
| | 282 | 745 | 5.20 | 11400 | 2.4 | | |
| | 326 | 645 | 4.50* | 10900 | 2.5 | | |
| | 148 | 1420 | 9.90* | 9640 | 0.85 | TR 88 | MY 180L4 153 |
| | 160 | 1310 | 9.14* | 10100 | 0.90 | TRF 88 | MY 180L4 154 |
| | 178 | 1180 | 8.22 | 9960 | 1.00 | | |
| | 205 | 1020 | 7.13 | 9700 | 1.05 | | |
| | 229 | 920 | 6.39 | 9490 | 1.10 | | |
| | 276 | 760 | 5.30* | 9110 | 1.20 | | |
| | 349 | 600 | 4.20* | 7330 | 1.40 | TRX 108 | MY 180L4 130 |
| | 384 | 545 | 3.81 | 7230 | 1.50 | TRXF 108 | MY 180L4 131 |
| | 433 | 485 | 3.38 | 7090 | 1.70 | | |
| | 477 | 440 | 3.07 | 6960 | 1.90 | | |
| | 555 | 380 | 2.64* | 6760 | 2.2 | | |
| | 636 | 330 | 2.30 | 6560 | 2.5 | | |
| | 750 | 280 | 1.95 | 6320 | 2.7 | | |
| | 858 | 245 | 1.71 | 6120 | 2.9 | | |
| | 1015 | 205 | 1.44 | 5870 | 3.1 | | |
| | 402 | 520 | 3.64* | 5720 | 1.15 | TRX 98 | MY 180L4 128 |
| | 444 | 475 | 3.30 | 5650 | 1.25 | TRXF 98 | MY 180L4 129 |
| | 501 | 420 | 2.92 | 5560 | 1.40 | | |
| | 554 | 380 | 2.64 | 5460 | 1.55 | | |
| | 654 | 320 | 2.24* | 5300 | 1.85 | | |
| | 749 | 280 | 1.96 | 5160 | 2.0 | | |
| 895 | 235 | 1.64 | 4960 | 2.2 | | | |
| 1035 | 205 | 1.42 | 4790 | 2.2 | | | |
| 531 | 395 | 2.76* | 1270 | 1.00 | TRX 88 | MY 180L4 126 | |
| 590 | 355 | 2.48 | 1710 | 1.15 | TRXF 88 | MY 180L4 127 | |
| 680 | 310 | 2.15 | 2160 | 1.25 | | | |
| 760 | 275 | 1.93 | 2450 | 1.30 | | | |
| 916 | 230 | 1.60* | 2750 | 1.35 | | | |
| 1055 | 200 | 1.39 | 3030 | 1.45 | | | |
| 30 | 14 | 20900 | 107.49 | 120000 | 0.85 | TR 168 | MY 200L4 164 |
| | 16 | 18200 | 93.19 | 120000 | 1.00 | TRF 168 | MY 200L4 165 |
| | 18 | 16200 | 82.91* | 120000 | 1.10 | | |
| | 20 | 14400 | 73.70* | 120000 | 1.25 | | |
| | 22 | 13100 | 67.40 | 120000 | 1.35 | | |
| | 25 | 11400 | 58.65 | 120000 | 1.55 | | |
| | 28 | 10100 | 51.76 | 120000 | 1.80 | | |
| | 33 | 8740 | 44.87 | 120000 | 2.1 | | |
| | 37 | 7780 | 39.92 | 120000 | 2.3 | | |
| | 43 | 6710 | 34.41 | 120000 | 2.7 | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s | | | | Page |
|------------------|------------------|------------------|--------|-----------------|-------|-----|----------|----------|------|
| 30 | 53 | 5450 | 27.96 | 120000 | 3.3 | TR | 168 | MY 200L4 | 164 |
| | 62 | 4620 | 23.71 | 120000 | 3.9 | TRF | 168 | MY 200L4 | 165 |
| | 18 | 16300 | 83.47 | 32400 | 0.80 | TR | 148 | MY 200L4 | 162 |
| | 20 | 14000 | 72.09 | 60400 | 0.95 | TRF | 148 | MY 200L4 | 163 |
| | 22 | 13100 | 66.99 | 62500 | 1.00 | | | | |
| | 24 | 11900 | 61.09 | 64700 | 1.10 | | | | |
| | 28 | 10300 | 52.87 | 67300 | 1.25 | | | | |
| | 32 | 9090 | 46.65 | 69000 | 1.45 | | | | |
| | 36 | 7850 | 40.29 | 70500 | 1.65 | | | | |
| | 41 | 6950 | 35.64 | 71400 | 1.85 | | | | |
| | 49 | 5840 | 29.95 | 72300 | 2.2 | | | | |
| | 61 | 4710 | 24.19 | 73100 | 2.5 | | | | |
| | 72 | 3980 | 20.44 | 73600 | 3.0 | TR | 148 | MY 200L4 | 162 |
| | 82 | 3510 | 18.04 | 73800 | 3.0 | TRF | 148 | MY 200L4 | 163 |
| | 94 | 3050 | 15.64 | 74000 | 4.3 | | | | |
| | 29 | 9910 | 50.86* | 35800 | 0.80 | TR | 138 | MY 200L4 | 160 |
| | 33 | 8650 | 44.39 | 51200 | 0.90 | TRF | 138 | MY 200L4 | 161 |
| | 39 | 7340 | 37.65 | 54700 | 1.10 | | | | |
| | 45 | 6410 | 32.91 | 56400 | 1.25 | | | | |
| | 53 | 5420 | 27.83 | 57900 | 1.40 | | | | |
| | 61 | 4700 | 24.12 | 58800 | 1.70 | TR | 138 | MY 200L4 | 160 |
| | 67 | 4290 | 22.00* | 59200 | 1.85 | TRF | 138 | MY 200L4 | 161 |
| | 77 | 3710 | 19.04* | 59800 | 2.2 | | | | |
| | 88 | 3270 | 16.80* | 60100 | 2.4 | | | | |
| | 101 | 2830 | 14.51 | 59500 | 2.8 | | | | |
| | 115 | 2500 | 12.83 | 58400 | 3.2 | | | | |
| | 136 | 2100 | 10.79 | 56600 | 3.8 | | | | |
| | 194 | 1480 | 7.59 | 53300 | 3.5 | | | | |
| | 230 | 1240 | 6.38 | 51300 | 4.1 | | | | |
| | 73 | 3910 | 20.07 | 17600 | 1.10 | TR | 108 | MY 200L4 | 158 |
| | 81 | 3550 | 18.21 | 17400 | 1.20 | TRF | 108 | MY 200L4 | 159 |
| | 94 | 3050 | 15.65 | 17100 | 1.40 | | | | |
| | 108 | 2660 | 13.66 | 16800 | 1.60 | | | | |
| | 127 | 2260 | 11.59 | 16300 | 1.90 | | | | |
| | 145 | 1970 | 10.13 | 15900 | 2.2 | | | | |
| | 172 | 1670 | 8.56 | 15400 | 2.6 | | | | |
| | 187 | 1530 | 7.86 | 15500 | 2.0 | | | | |
| | 221 | 1300 | 6.66 | 14900 | 2.3 | | | | |
| | 252 | 1140 | 5.82 | 14400 | 2.6 | | | | |
| | 299 | 960 | 4.92 | 13700 | 3.0 | | | | |
| | 101 | 2850 | 14.62 | 12000 | 0.80 | TR | 98 | MY 200L4 | 156 |
| | 119 | 2420 | 12.39 | 11900 | 0.90 | TRF | 98 | MY 200L4 | 157 |
| | 136 | 2110 | 10.83 | 11800 | 1.00 | | | | |
| | 158 | 1810 | 9.29 | 12300 | 1.10 | | | | |
| | 175 | 1640 | 8.39 | 12100 | 1.25 | | | | |
| | 207 | 1390 | 7.12 | 11700 | 1.45 | | | | |
| | 237 | 1210 | 6.21 | 11400 | 1.55 | | | | |
| | 283 | 1010 | 5.20 | 10900 | 1.75 | | | | |
| | 327 | 880 | 4.50* | 10500 | 1.85 | | | | |
| | 434 | 660 | 3.38 | 6370 | 1.25 | TRX | 108 | MY 200L4 | 130 |
| 479 | 600 | 3.07 | 6310 | 1.40 | TRXF | 108 | MY 200L4 | 131 | |
| 557 | 515 | 2.64* | 6180 | 1.60 | | | | | |
| 638 | 450 | 2.30 | 6050 | 1.85 | | | | | |
| 752 | 380 | 1.95 | 5870 | 2.0 | | | | | |
| 860 | 335 | 1.71 | 5720 | 2.1 | | | | | |
| 1020 | 280 | 1.44 | 5520 | 2.3 | | | | | |
| 503 | 570 | 2.92 | 3120 | 1.05 | TRX | 98 | MY 200L4 | 128 | |
| 556 | 515 | 2.64 | 3560 | 1.15 | TRXF | 98 | MY 200L4 | 129 | |
| 656 | 435 | 2.24* | 4050 | 1.35 | | | | | |
| 751 | 380 | 1.96 | 4450 | 1.50 | | | | | |

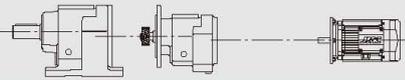
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
|------------------|------------------|------------------|--------|-----------------|-----------------|--|---------------------|
| 30 | 898 | 320 | 1.64 | 4580 | 1.60 | TRX 98 | MY 200L4 128 |
| | 1040 | 275 | 1.42 | 4450 | 1.65 | TRXF 98 | MY 200L4 129 |
| 37 | 16 | 22400 | 93.19 | 120000 | 0.80 | TR 168 | MY 225S4 164 |
| | 18 | 19900 | 82.91* | 120000 | 0.90 | TRF 168 | MY 225S4 165 |
| | 20 | 17700 | 73.70* | 120000 | 1.00 | | |
| | 22 | 16200 | 67.40 | 120000 | 1.10 | | |
| | 25 | 14100 | 58.65 | 120000 | 1.30 | | |
| | 28 | 12400 | 51.76 | 120000 | 1.45 | | |
| | 33 | 10800 | 44.87 | 120000 | 1.65 | | |
| | 37 | 9600 | 39.92 | 120000 | 1.90 | | |
| | 43 | 8270 | 34.41 | 120000 | 2.2 | | |
| | 53 | 6720 | 27.96 | 120000 | 2.7 | | |
| | 48 | 7380 | 30.71 | 120000 | 1.35 | TR 168 | MY 225S4 164 |
| | 60 | 5900 | 24.57 | 120000 | 2.4 | TRF 168 | MY 225S4 165 |
| | 67 | 5250 | 21.85 | 120000 | 2.5 | | |
| | 77 | 4580 | 19.03 | 120000 | 3.5 | | |
| | 87 | 4080 | 16.98 | 120000 | 3.7 | | |
| | 22 | 16100 | 66.99 | 35000 | 0.80 | TR 148 | MY 225S4 162 |
| | 24 | 14700 | 61.09 | 54200 | 0.90 | TRF 148 | MY 225S4 163 |
| | 28 | 12700 | 52.87 | 63200 | 1.00 | | |
| | 32 | 11200 | 46.65 | 65900 | 1.15 | | |
| | 36 | 9680 | 40.29 | 68200 | 1.35 | | |
| | 41 | 8570 | 35.64 | 69700 | 1.50 | | |
| | 49 | 7200 | 29.95 | 71100 | 1.80 | | |
| | 61 | 5810 | 24.19 | 72400 | 2.1 | | |
| | 72 | 4910 | 20.44 | 73000 | 2.4 | TR 148 | MY 225S4 162 |
| | 82 | 4340 | 18.04 | 73400 | 2.4 | TRF 148 | MY 225S4 163 |
| | 94 | 3760 | 15.64 | 73700 | 3.5 | | |
| | 106 | 3340 | 13.91 | 73900 | 3.8 | TR 148 | MY 225S4 162 |
| | | | | | | TRF 148 | MY 225S4 163 |
| | 39 | 9050 | 37.65 | 49400 | 0.90 | TR 138 | MY 225S4 160 |
| | 45 | 7910 | 32.91 | 53600 | 1.00 | TRF 138 | MY 225S4 161 |
| | 53 | 6690 | 27.83 | 55900 | 1.15 | | |
| | 61 | 5800 | 24.12 | 57300 | 1.40 | TR 138 | MY 225S4 160 |
| | 67 | 5290 | 22.00* | 58000 | 1.50 | TRF 138 | MY 225S4 161 |
| | 77 | 4580 | 19.04* | 57800 | 1.75 | | |
| | 88 | 4040 | 16.80* | 57300 | 2.0 | | |
| | 101 | 3490 | 14.51 | 56600 | 2.3 | TR 138 | MY 225S4 160 |
| | 115 | 3080 | 12.83 | 55800 | 2.6 | TRF 138 | MY 225S4 161 |
| 136 | 2590 | 10.79 | 54400 | 3.1 | | | |
| 169 | 2090 | 8.71 | 52600 | 3.7 | | | |
| 194 | 1820 | 7.59 | 51900 | 2.8 | | | |
| 230 | 1530 | 6.38 | 50100 | 3.3 | | | |
| 285 | 1240 | 5.15 | 47800 | 3.7 | | | |
| 73 | 4820 | 20.07 | 16100 | 0.90 | TR 108 | MY 225S4 158 | |
| 81 | 4380 | 18.21 | 16100 | 1.00 | TRF 108 | MY 225S4 159 | |
| 94 | 3760 | 15.65 | 15900 | 1.15 | | | |
| 108 | 3280 | 13.66 | 15700 | 1.30 | | | |
| 127 | 2790 | 11.59 | 15400 | 1.55 | | | |
| 145 | 2430 | 10.13 | 15100 | 1.75 | | | |
| 172 | 2060 | 8.56 | 14700 | 2.10 | | | |
| 187 | 1890 | 7.86 | 15000 | 1.55 | | | |
| 221 | 1600 | 6.66 | 14400 | 1.85 | | | |
| 252 | 1400 | 5.82 | 14000 | 2.1 | | | |
| 299 | 1180 | 4.92 | 13400 | 2.5 | | | |
| 434 | 810 | 3.38 | 4470 | 1.00 | TRX 108 | MY 225S4 130 | |
| 479 | 740 | 3.07 | 4950 | 1.10 | TRXF 108 | MY 225S4 131 | |
| 557 | 635 | 2.64* | 5530 | 1.30 | | | |
| 638 | 555 | 2.30 | 5610 | 1.50 | | | |
| 752 | 470 | 1.95 | 5490 | 1.65 | | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s | | | Page | |
|------------------|------------------|------------------|--------|-----------------|-------------|-------------|-----------------|-----------------|-----|
| 37 | 860 | 410 | 1.71 | 5370 | 1.70 | TRX | 108 | MY 225S4 | 130 |
| | 1020 | 345 | 1.44 | 5220 | 1.85 | TRXF | 108 | MY 225S4 | 131 |
| 45 | 20 | 21500 | 73.70* | 120000 | 0.85 | TR | 168 | MY 225M4 | 164 |
| | 22 | 19700 | 67.40 | 120000 | 0.90 | TRF | 168 | MY 225M4 | 165 |
| | 25 | 17100 | 58.65 | 120000 | 1.05 | | | | |
| | 28 | 15100 | 51.76 | 120000 | 1.20 | | | | |
| | 33 | 13100 | 44.87 | 120000 | 1.35 | TR | 168 | MY 225M4 | 164 |
| | 37 | 11700 | 39.92 | 120000 | 1.55 | TRF | 168 | MY 225M4 | 165 |
| | 43 | 10100 | 34.41 | 120000 | 1.80 | | | | |
| | 53 | 8170 | 27.96 | 120000 | 2.2 | | | | |
| | 62 | 6930 | 23.71 | 120000 | 2.6 | | | | |
| | 48 | 8980 | 30.71 | 120000 | 1.10 | TR | 168 | MY 225M4 | 164 |
| | 60 | 7180 | 24.57 | 120000 | 1.95 | TRF | 168 | MY 225M4 | 165 |
| | 67 | 6390 | 21.85 | 120000 | 2.0 | | | | |
| | 77 | 5560 | 19.03 | 120000 | 2.9 | | | | |
| | 87 | 4960 | 16.98 | 120000 | 3.0 | | | | |
| | 28 | 15500 | 52.87 | 44400 | 0.85 | TR | 148 | MY 225M4 | 162 |
| | 32 | 13600 | 46.65 | 61300 | 0.95 | TRF | 148 | MY 225M4 | 163 |
| | 36 | 11800 | 40.29 | 65000 | 1.10 | | | | |
| | 41 | 10400 | 35.64 | 67200 | 1.25 | | | | |
| | 49 | 8760 | 29.95 | 69400 | 1.50 | | | | |
| | 61 | 7070 | 24.19 | 71300 | 1.70 | | | | |
| | 72 | 5970 | 20.44 | 72200 | 2.0 | TR | 148 | MY 225M4 | 162 |
| | 82 | 5270 | 18.04 | 72800 | 2.0 | TRF | 148 | MY 225M4 | 163 |
| | 94 | 4570 | 15.64 | 73200 | 2.8 | | | | |
| | 106 | 4070 | 13.91 | 73500 | 3.1 | | | | |
| | 123 | 3510 | 11.99 | 73800 | 3.7 | | | | |
| | 203 | 2120 | 7.25 | 74300 | 4.1 | | | | |
| | 45 | 9620 | 32.91 | 41700 | 0.85 | TR | 138 | MY 225M4 | 160 |
| | 53 | 8130 | 27.83 | 51200 | 0.95 | TRF | 138 | MY 225M4 | 161 |
| | 61 | 7050 | 24.12 | 52400 | 1.15 | TR | 138 | MY 225M4 | 160 |
| | 67 | 6430 | 22.00* | 52900 | 1.25 | TRF | 138 | MY 225M4 | 161 |
| | 77 | 5570 | 19.04* | 53300 | 1.45 | | | | |
| | 88 | 4910 | 16.80* | 53400 | 1.65 | | | | |
| 101 | 4240 | 14.51 | 53200 | 1.90 | | | | | |
| 115 | 3750 | 12.83 | 52800 | 2.1 | | | | | |
| 136 | 3150 | 10.79 | 51900 | 2.5 | | | | | |
| 169 | 2550 | 8.71 | 50500 | 3.1 | | | | | |
| 194 | 2220 | 7.59 | 50200 | 2.3 | | | | | |
| 230 | 1860 | 6.38 | 48700 | 2.7 | | | | | |
| 285 | 1510 | 5.15 | 46700 | 3.1 | | | | | |
| 94 | 4580 | 15.65 | 14600 | 0.95 | TR | 108 | MY 225M4 | 158 | |
| 108 | 3990 | 13.66 | 14600 | 1.10 | TRF | 108 | MY 225M4 | 159 | |
| 127 | 3390 | 11.59 | 14400 | 1.25 | | | | | |
| 145 | 2960 | 10.13 | 14300 | 1.45 | | | | | |
| 172 | 2500 | 8.56 | 14000 | 1.70 | | | | | |
| 187 | 2300 | 7.86 | 14400 | 1.30 | | | | | |
| 221 | 1950 | 6.66 | 14000 | 1.50 | | | | | |
| 252 | 1700 | 5.82 | 13600 | 1.75 | | | | | |
| 299 | 1440 | 4.92 | 13100 | 2.0 | | | | | |
| 434 | 990 | 3.38 | 1360 | 0.85 | TRX | 108 | MY 225M4 | 130 | |
| 479 | 900 | 3.07 | 2080 | 0.90 | TRXF | 108 | MY 225M4 | 131 | |
| 557 | 770 | 2.64* | 2970 | 1.10 | | | | | |
| 638 | 675 | 2.30 | 3640 | 1.25 | | | | | |
| 752 | 570 | 1.95 | 4200 | 1.35 | | | | | |
| 860 | 500 | 1.71 | 4540 | 1.40 | | | | | |
| 1020 | 420 | 1.44 | 4880 | 1.55 | | | | | |
| 55 | 25 | 20900 | 58.65 | 120000 | 0.85 | TR | 168 | MY 250M4 | 164 |
| | 29 | 18400 | 51.76 | 120000 | 1.00 | TRF | 168 | MY 250M4 | 165 |
| | 33 | 16000 | 44.87 | 120000 | 1.15 | | | | |

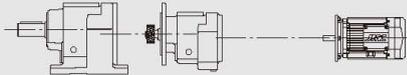
| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | Fr_2 [N] | f_s |  | Page | |
|------------------|------------------|------------------|--------|---------------|--------|--|--------------|--------------|
| 55 | 37 | 14200 | 39.92 | 120000 | 1.25 | TR 168 | MY 250M4 164 | |
| | 43 | 12300 | 34.41 | 120000 | 1.45 | TRF 168 | MY 250M4 165 | |
| | 53 | 9960 | 27.96 | 120000 | 1.80 | | | |
| | 62 | 8440 | 23.71 | 120000 | 2.1 | | | |
| | 60 | 8750 | 24.57 | 120000 | 1.60 | TR 168 | MY 250M4 164 | |
| | 68 | 7780 | 21.85 | 120000 | 1.65 | TRF 168 | MY 250M4 165 | |
| | 77 | 6780 | 19.03 | 120000 | 2.4 | | | |
| | 87 | 6050 | 16.98 | 120000 | 2.5 | | | |
| | 102 | 5150 | 14.48 | 120000 | 3.5 | | | |
| | 123 | 4270 | 11.99 | 120000 | 4.0 | | | |
| | 32 | 16600 | 46.65 | 26600 | 0.80 | TR 148 | MY 250M4 162 | |
| | 37 | 14300 | 40.29 | 58200 | 0.90 | TRF 148 | MY 250M4 163 | |
| | 41 | 12700 | 35.64 | 63300 | 1.00 | | | |
| | 49 | 10700 | 29.95 | 66800 | 1.20 | | | |
| | 61 | 8610 | 24.19 | 69600 | 1.40 | | | |
| | 72 | 7280 | 20.44 | 71100 | 1.65 | TR 148 | MY 250M4 162 | |
| | 82 | 6420 | 18.04 | 71900 | 1.65 | TRF 148 | MY 250M4 163 | |
| | 94 | 5570 | 15.64 | 72500 | 2.3 | | | |
| | 106 | 4950 | 13.91 | 73000 | 2.5 | | | |
| | 123 | 4270 | 11.99 | 73400 | 3.0 | | | |
| | 151 | 3470 | 9.74 | 73800 | 3.8 | | | |
| | 203 | 2580 | 7.25 | 74200 | 3.4 | | | |
| | 250 | 2100 | 5.89 | 72500 | 4.1 | | | |
| | 77 | 6780 | 19.04* | 47800 | 1.20 | TR 138 | MY 250M4 160 | |
| | 88 | 5980 | 16.80* | 48500 | 1.35 | TRF 138 | MY 250M4 161 | |
| | 102 | 5170 | 14.51 | 48900 | 1.55 | | | |
| | 115 | 4570 | 12.83 | 49000 | 1.75 | TR 138 | MY 250M4 160 | |
| | 137 | 3840 | 10.79 | 48800 | 2.1 | TRF 138 | MY 250M4 161 | |
| 169 | 3100 | 8.71 | 48000 | 2.5 | | | | |
| 194 | 2700 | 7.59 | 48100 | 1.90 | | | | |
| 231 | 2270 | 6.38 | 46900 | 2.3 | | | | |
| 286 | 1830 | 5.15 | 45200 | 2.5 | | | | |
| 75 | 33 | 21700 | 44.87 | 120000 | 0.85 | TR 168 | MY 280S4 164 | |
| | 37 | 19300 | 39.92 | 120000 | 0.95 | TRF 168 | MY 280S4 165 | |
| | 43 | 16700 | 34.41 | 120000 | 1.10 | | | |
| | 53 | 13500 | 27.96 | 120000 | 1.35 | | | |
| | 62 | 11500 | 23.71 | 120000 | 1.55 | | | |
| | 60 | 11900 | 24.57 | 120000 | 1.20 | TR 168 | MY 280S4 164 | |
| | 68 | 10600 | 21.85 | 120000 | 1.25 | TRF 168 | MY 280S4 165 | |
| | 78 | 9210 | 19.03 | 120000 | 1.75 | | | |
| | 87 | 8220 | 16.98 | 120000 | 1.85 | | | |
| | 102 | 7000 | 14.48 | 120000 | 2.6 | | | |
| | 123 | 5800 | 11.99 | 116600 | 2.9 | | | |
| | 145 | 4950 | 10.24 | 112800 | 3.4 | | | |
| | 49 | 14500 | 29.95 | 56500 | 0.90 | TR 148 | MY 280S4 162 | |
| | 61 | 11700 | 24.19 | 65100 | 1.00 | TRF 148 | MY 280S4 163 | |
| | 72 | 9890 | 20.44 | 67900 | 1.20 | TR 148 | MY 280S4 162 | |
| | 82 | 8730 | 18.04 | 69500 | 1.20 | TRF 148 | MY 280S4 163 | |
| | 95 | 7570 | 15.64 | 70800 | 1.70 | | | |
| | 106 | 6730 | 13.91 | 71600 | 1.85 | | | |
| | 123 | 5800 | 11.99 | 72400 | 2.2 | | | |
| | 152 | 4710 | 9.74 | 73100 | 2.8 | | | |
| | 179 | 4000 | 8.26 | 73500 | 3.3 | | | |
| | 204 | 3510 | 7.25 | 73100 | 2.5 | | | |
| | 251 | 2850 | 5.89 | 70100 | 3.0 | | | |
| | 296 | 2420 | 5.00 | 67600 | 3.6 | | | |
| | 90 | 37 | 23200 | 39.92 | 120000 | 0.80 | TR 168 | MY 280M4 164 |
| | | 43 | 20000 | 34.41 | 120000 | 0.90 | TRF 168 | MY 280M4 165 |
| | | 53 | 16200 | 27.96 | 120000 | 1.10 | | |
| | | 62 | 13800 | 23.71 | 120000 | 1.30 | | |

| P_{1n} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | f_s |  | Page |
|------------------|------------------|------------------|--------|-----------------|-------|--|----------------------|
| 90 | 78 | 11100 | 19.03 | 120000 | 1.45 | TR 168 | MY 280M4 164 |
| | | | | | | TRF 168 | MY 280M4 165 |
| | 87 | 9860 | 16.98 | 120000 | 1.50 | TR 168 | MY 280M4 164 |
| | 102 | 8410 | 14.48 | 117300 | 2.1 | TRF 168 | MY 280M4 165 |
| | 123 | 6960 | 11.99 | 113500 | 2.4 | | |
| | 145 | 5940 | 10.24 | 110100 | 2.9 | | |
| | 95 | 9080 | 15.64 | 69000 | 1.45 | TR 148 | MY 280M4 162 |
| | 106 | 8080 | 13.91 | 70200 | 1.55 | TRF 148 | MY 280M4 163 |
| | 123 | 6960 | 11.99 | 71400 | 1.85 | | |
| | 152 | 5660 | 9.74 | 72500 | 2.3 | | |
| 179 | 4800 | 8.26 | 73000 | 2.7 | | | |
| 204 | 4210 | 7.25 | 70900 | 2.1 | | | |
| 251 | 3420 | 5.89 | 68300 | 2.5 | | | |
| 296 | 2900 | 5.00 | 66100 | 3.0 | | | |
| 110 | 53 | 19800 | 27.96 | 117100 | 0.90 | TR 168 | MY 315S4 164 |
| | 63 | 16800 | 23.71 | 116900 | 1.05 | TRF 168 | MY 315S4 165 |
| | 78 | 13500 | 19.03 | 115500 | 1.20 | TR 168 | MY 315S4 164 |
| | 87 | 12000 | 16.98 | 114300 | 1.25 | TRF 168 | MY 315S4 165 |
| | 103 | 10200 | 14.48 | 112200 | 1.75 | | |
| | 124 | 8480 | 11.99 | 109300 | 2.0 | | |
| 145 | 7240 | 10.24 | 106500 | 2.4 | | | |
| 132 | 63 | 20100 | 23.71 | 107900 | 0.90 | TR 168 | MY 315M4 164 |
| | 78 | 16200 | 19.03 | 108300 | 1.00 | TRF 168 | MY 315M4 165 |
| | 87 | 14400 | 16.98 | 107800 | 1.05 | | |
| | 103 | 12300 | 14.48 | 106700 | 1.45 | | |
| | 124 | 10200 | 11.99 | 104700 | 1.65 | | |
| 145 | 8690 | 10.24 | 102600 | 1.95 | | | |
| 160 | 103 | 14900 | 14.48 | 99700 | 1.20 | TR 168 | MY 315M4A 164 |
| | 124 | 12300 | 11.99 | 98900 | 1.40 | TRF 168 | MY 315M4A 165 |
| | 145 | 10500 | 10.24 | 97600 | 1.60 | | |

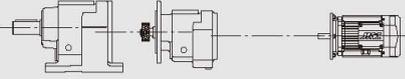
6.3 TR../TRF..MY.. 性能参数 / Performance parameter

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|---------------------|------------------|------|-----------------|--|------------|---------|------|
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| | 0.23 | 6050 | 4230 | | | | |
| | 0.26 | 5217 | 4230 | | | | |
| | 0.30 | 4661 | 4230 | | | | |
| | 0.34 | 4073 | 4230 | | | | |
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| | 0.44 | 3160 | 4230 | | | | |
| | 0.50 | 2763 | 4230 | | | | |
| | 0.57 | 2414 | 4230 | | | | |
| | 0.65 | 2110 | 4230 | | | | |
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| | 6.1 | 227 | 4230 | | | | |
| | 6.8 | 203 | 4230 | | | | |
| | 7.4 | 179 | 4230 | TR | 28 / TRF18 | MY 63M4 | 166 |
| | 8.5 | 156 | 4230 | TRF | 28 / TRF18 | MY 63M4 | 166 |
| | 9.8 | 135 | 4230 | | | | |
| | 11 | 118 | 4230 | | | | |
| 12 | 104 | 4230 | TR | 28 / TRF18 | MY 63L4 | 166 | |
| 14 | 90 | 4230 | TRF | 28 / TRF18 | MY 63L4 | 166 | |
| 200 | 0.16 | 8595 | 4950 | TR | 38 / TRF18 | MY 63S4 | 166 |
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| | 0.23 | 6038 | 4950 | | | | |
| | 0.27 | 5206 | 4950 | | | | |
| | 0.30 | 4651 | 4950 | | | | |
| | 0.34 | 4065 | 4950 | | | | |
| | 0.38 | 3658 | 4950 | | | | |
| | 0.44 | 3154 | 4950 | | | | |
| | 0.50 | 2757 | 4950 | | | | |
| | 0.57 | 2409 | 4950 | | | | |
| | 0.66 | 2106 | 4950 | | | | |
| | 0.76 | 1818 | 4950 | TR | 38 / TRF18 | MY 63S4 | 166 |
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| | 1.1 | 1267 | 4950 | | | | |
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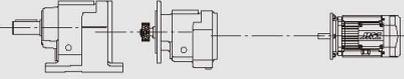
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| | 3.6 | 378 | 4950 | TRF | 38 / TRF18 | MY 63S4 | 166 |
| | 4.2 | 328 | 4950 | | | | |
| | 4.6 | 289 | 4950 | TR | 38 / TRF18 | MY 63M4 | 166 |
| | 5.0 | 265 | 4950 | TRF | 38 / TRF18 | MY 63M4 | 166 |
| | 5.8 | 226 | 4950 | | | | |
| | 6.5 | 202 | 4950 | | | | |
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| | 8.3 | 156 | 4950 | TRF | 38 / TRF18 | MY 63L4 | 166 |
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| 15 | 90 | 4950 | TRF | 38 / TRF18 | MY 71D4 | 166 | |
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| | 0.15 | 9155 | 5420 | | | | |
| | 0.16 | 8534 | 5420 | | | | |
| | 0.18 | 7460 | 5420 | | | | |
| | 0.20 | 6993 | 5420 | | | | |
| | 0.22 | 6171 | 5420 | | | | |
| | 0.25 | 5624 | 5420 | | | | |
| | 0.28 | 4849 | 5420 | | | | |
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| | 0.79 | 1749 | 5420 | | | | |
| | 0.85 | 1630 | 5420 | | | | |
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| 5.7 | 228 | 5420 | TRF | 48 / TRF38 | MY 63L4 | 166 | |
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| | 0.15 | 9445 | 7110 | | | | |
| | 0.16 | 8480 | 7110 | | | | |
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| $M_{2 \max}$ [Nm] | n_2 [r/min] | i | F_{r2} [N] |  | | | Page |
|----------------------|------------------|-------|-----------------|--|------------|---------|------|
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| | 0.41 | 3344 | 7110 | | | | |
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| | 2.2 | 604 | 7110 | TRF | 58 / TRF38 | MY 63M4 | 166 |
| | 2.5 | 537 | 7110 | | | | |
| | 2.8 | 471 | 7110 | | | | |
| | 3.6 | 357 | 7110 | TR | 58 / TRF38 | MY 63L4 | 166 |
| | 4.1 | 319 | 7110 | TRF | 58 / TRF38 | MY 63L4 | 166 |
| 5.1 | 273 | 7110 | TR | 58 / TRF38 | MY 71D4 | 166 | |
| 5.7 | 241 | 7110 | TRF | 58 / TRF38 | MY 71D4 | 166 | |
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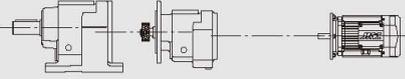
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| | | 1.5 | 858 | 9920 | | | | |
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| $M_{2 \max}$ [Nm] | n_2 [r/min] | i | F_{r2} [N] |  | | | Page |
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| | 1.0 | 1303 | 16900 | TR | 88 / TRF58 | MY 63L4 | 166 |
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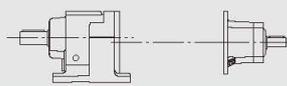
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| | | | | TRF | 108 / TRF78 | MY 63M4 | 166 |
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| | 0.80 | 1693 | 29500 | TR | 108 / TRF78 | MY 80K4 | 166 |
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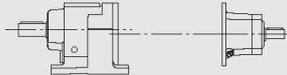
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| | 0.09 | 14777 | 53400 | | | | |
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| | 0.22 | 5834 | 53400 | | | | |
| | 0.27 | 5116 | 53400 | TR | 138 / TRF78 | MY 71D4 | 166 |
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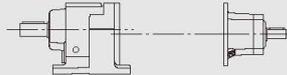
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| | 0.07 | 18210 | 62700 | TR | 148 / TRF78 | MY 63M4 | 166 |
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| | 0.16 | 8443 | 62700 | TR | 148 / TRF78 | MY 71D4 | 166 |
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| | 0.22 | 6077 | 120000 | TR | 168 / TRF98 | MY 80K4 | 166 |
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| | 0.26 | 5407 | 120000 | TR | 168 / TRF98 | MY 80N4 | 166 |
| | 0.30 | 4650 | 120000 | TRF | 168 / TRF98 | MY 80N4 | 166 |
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| | 1.1 | 1279 | 120000 | TR | 168 / TRF98 | MY 100L4 | 166 |
| | 1.2 | 1123 | 120000 | TRF | 168 / TRF98 | MY 100L4 | 166 |
| | 1.4 | 999 | 120000 | | | | |
| | 1.7 | 861 | 120000 | TR | 168 / TRF98 | MY 112M4 | 166 |
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| | 3.8 | 376 | 120000 | TR | 168 / TRF98 | MY 132ML4 | 166 |
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| 4.8 | 303 | 120000 | TR | 168 / TRF98 | MY 160M4 | 166 | |
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| 5.0 | 291 | 120000 | TR | 168 / TRF108 | MY 160M4 | 166 | |
| | | | TRF | 168 / TRF108 | MY 160M4 | 166 | |
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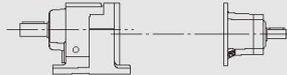
6.4 TR.. AD.. 性能参数 / Performance parameter
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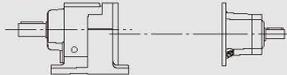
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| 37 | 255 | 5.50* | 1.0 | 3120 | 505 | TRX 58 | AD2 169 |
| 34 | 276 | 5.07 | 1.0 | 3050 | 635 | TRXF 58 | AD2 169 |
| 61 | 322 | 4.35 | 2.1 | 2690 | 1110 | TRX 58 | AD2 169 |
| 58 | 369 | 3.79 | 2.3 | 2560 | 1120 | TRXF 58 | AD2 169 |
| 55 | 394 | 3.55* | 2.3 | 2520 | 1150 | | |
| 65 | 446 | 3.14 | 3.1 | 2320 | 980 | | |
| 49 | 481 | 2.91 | 2.5 | 2370 | 1190 | | |
| 69 | 530 | 2.64* | 4.0 | 1810 | 870 | | |
| 69 | 591 | 2.37 | 4.4 | 1500 | 1860 | TRX 58 | AD3 169 |
| 69 | 686 | 2.04 | 5.1 | 1070 | 1810 | TRXF 58 | AD3 169 |
| 69 | 729 | 1.92* | 5.4 | 890 | 1780 | | |
| 69 | 847 | 1.65 | 6.3 | 430 | 1710 | | |
| 68 | 948 | 1.48 | 7.0 | 112 | 1660 | | |
| 63 | 1075 | 1.30 | 7.3 | 132 | 1700 | | |
| 41 | 231 | 6.07 | 1.1 | 4020 | 625 | TRX 68 | AD2 169 |
| 75 | 270 | 5.18 | 2.2 | 3580 | 1090 | TRXF 68 | AD2 169 |
| 71 | 309 | 4.53 | 2.4 | 3420 | 1110 | TRX 68 | AD2 169 |
| 69 | 326 | 4.30* | 2.4 | 3370 | 1130 | TRXF 68 | AD2 169 |
| 87 | 371 | 3.77 | 3.5 | 3090 | 880 | | |
| 100 | 438 | 3.20* | 4.7 | 2800 | 1700 | TRX 68 | AD3 169 |
| 105 | 485 | 2.89 | 5.5 | 2640 | 1600 | TRXF 68 | AD3 169 |
| 118 | 551 | 2.54 | 7.0 | 2000 | 1400 | | |
| 123 | 583 | 2.40* | 7.7 | 1530 | 1300 | | |
| 114 | 685 | 2.04 | 8.3 | 1260 | 1310 | | |
| 108 | 754 | 1.86 | 8.7 | 1180 | 1330 | | |
| 99 | 870 | 1.61 | 9.2 | 1080 | 1370 | | |
| 90 | 1000 | 1.40* | 9.6 | 1030 | 1420 | | |
| 54 | 175 | 8.00* | 1.1 | 6350 | 535 | TRX 78 | AD2 169 |
| 50 | 188 | 7.47 | 1.0 | 6220 | 665 | TRXF 78 | AD2 169 |
| 101 | 218 | 6.41 | 2.4 | 5610 | 1050 | | |
| 107 | 249 | 5.63 | 2.9 | 5320 | 970 | | |
| 101 | 262 | 5.35* | 2.9 | 5250 | 1020 | | |
| 123 | 296 | 4.73 | 4.0 | 4900 | 1800 | TRX 78 | AD3 169 |
| 143 | 347 | 4.04* | 5.3 | 4500 | 1570 | TRXF 78 | AD3 169 |
| 143 | 378 | 3.70 | 5.8 | 4350 | 1550 | | |
| 182 | 431 | 3.25* | 8.5 | 3200 | 3160 | TRX 78 | AD4 169 |
| 193 | 455 | 3.08* | 9.5 | 2560 | 3040 | TRXF 78 | AD4 169 |
| 215 | 519 | 2.70 | 12.1 | 1110 | 2770 | | |
| 215 | 576 | 2.43 | 13.4 | 510 | 2680 | | |
| 200 | 657 | 2.13 | 14.2 | 435 | 2730 | | |
| 187 | 745 | 1.88* | 15.0 | 335 | 2770 | | |
| 173 | 840 | 1.67 | 15.7 | 315 | 2820 | | |
| 155 | 984 | 1.42 | 16.3 | 315 | 2890 | | |
| 139 | 162 | 8.65 | 2.5 | 7890 | 1070 | TRX 88 | AD2 169 |
| 145 | 183 | 7.63 | 2.9 | 7510 | 1020 | TRXF 88 | AD2 169 |
| 136 | 194 | 7.20* | 2.9 | 7390 | 1060 | | |
| 192 | 217 | 6.45 | 4.5 | 6850 | 1640 | TRX 88 | AD3 169 |
| 225 | 252 | 5.56* | 6.1 | 6320 | 1410 | TRXF 88 | AD3 169 |
| 215 | 276 | 5.07 | 6.4 | 6140 | 1440 | | |
| 290 | 311 | 4.50* | 9.7 | 5500 | 3010 | TRX 88 | AD4 169 |
| 305 | 370 | 3.78 | 12.2 | 5030 | 2840 | TRXF 88 | AD4 169 |
| 405 | 403 | 3.48 | 17.6 | 2730 | 5330 | TRX 88 | AD5 169 |
| 405 | 454 | 3.09 | 20 | 1950 | 5240 | TRXF 88 | AD5 169 |
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| 405 | 564 | 2.48 | 25 | 470 | 5050 | | |
| 385 | 650 | 2.15 | 27 | 42 | 5040 | | |

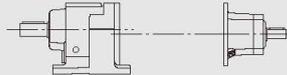
| $M_{2\max}$ [Nm] | n_2 [r/min] | i | P_{1n} [kW] | Fr_2 [N] | Fr_1 [N] |  | | | Page |
|---------------------|------------------|--------|------------------|---------------|---------------|---|-----|-----|------|
| 355 | 726 | 1.93 | 28 | 185 | 5140 | TRX | 88 | AD5 | 169 |
| 315 | 875 | 1.60* | 29 | 74 | 5230 | TRXF | 88 | AD5 | 169 |
| 290 | 1005 | 1.39 | 31 | 74 | 5300 | | | | |
| 225 | 170 | 8.23 | 4.2 | 9560 | 1710 | TRX | 98 | AD3 | 169 |
| 260 | 196 | 7.16* | 5.5 | 8950 | 1520 | TRXF | 98 | AD3 | 169 |
| 300 | 214 | 6.56 | 6.9 | 8500 | 1250 | | | | |
| 420 | 242 | 5.79 | 11.0 | 7630 | 2770 | TRX | 98 | AD4 | 169 |
| 395 | 285 | 4.91 | 12.2 | 7220 | 2820 | TRXF | 98 | AD4 | 169 |
| 595 | 309 | 4.52 | 20 | 6180 | 4970 | TRX | 98 | AD5 | 169 |
| 595 | 346 | 4.04 | 22 | 5380 | 4890 | TRXF | 98 | AD5 | 169 |
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| 595 | 425 | 3.30 | 27 | 3730 | 4720 | | | | |
| 595 | 479 | 2.92 | 30 | 2810 | 4620 | | | | |
| 595 | 530 | 2.64 | 34 | 1980 | 4510 | | | | |
| 595 | 625 | 2.24* | 40 | 495 | 4280 | | | | |
| 570 | 716 | 1.96 | 44 | 19 | 4260 | | | | |
| 505 | 856 | 1.64 | 46 | 51 | 4390 | | | | |
| 455 | 988 | 1.42 | 48 | 132 | 7450 | TRX | 98 | AD6 | 169 |
| | | | | | | TRXF | 98 | AD6 | 169 |
| 460 | 211 | 6.63* | 10.5 | 9700 | 2710 | TRX | 108 | AD4 | 169 |
| 455 | 250 | 5.61 | 12.3 | 9080 | 2660 | TRXF | 108 | AD4 | 169 |
| 695 | 270 | 5.19 | 20 | 7850 | 4720 | TRX | 108 | AD5 | 169 |
| 695 | 301 | 4.65 | 23 | 7450 | 4650 | TRXF | 108 | AD5 | 169 |
| 830 | 333 | 4.20* | 30 | 6420 | 3780 | | | | |
| 830 | 367 | 3.81 | 33 | 5550 | 3590 | | | | |
| 830 | 414 | 3.38 | 37 | 4490 | 3340 | | | | |
| 830 | 456 | 3.07 | 40 | 3600 | 6550 | TRX | 108 | AD6 | 169 |
| 830 | 530 | 2.64* | 47 | 2170 | 6340 | TRXF | 108 | AD6 | 169 |
| 830 | 608 | 2.30 | 54 | 900 | 6140 | | | | |
| 730 | 716 | 1.95 | 56 | 1260 | 6400 | | | | |
| 640 | 820 | 1.71 | 56 | 1840 | 6690 | | | | |
| 540 | 969 | 1.44 | 56 | 2610 | 7070 | | | | |
| 130 | 10 | 135.09 | 0.18 | 4230 | 750 | TR | 28 | AD1 | 169 |
| 130 | 11 | 123.91 | 0.19 | 4230 | 745 | TRF | 28 | AD1 | 169 |
| 130 | 13 | 105.49 | 0.22 | 4230 | 745 | | | | |
| 130 | 15 | 90.96 | 0.25 | 4230 | 740 | | | | |
| 130 | 17 | 84.78 | 0.27 | 4230 | 740 | | | | |
| 130 | 19 | 74.11 | 0.30 | 4230 | 735 | TR | 28 | AD1 | 169 |
| 130 | 20 | 69.47 | 0.32 | 4180 | 730 | TRF | 28 | AD1 | 169 |
| 130 | 23 | 61.30 | 0.36 | 3980 | 720 | | | | |
| 130 | 25 | 55.87 | 0.39 | 3840 | 560 | | | | |
| 130 | 29 | 48.17 | 0.44 | 3630 | 540 | | | | |
| 130 | 31 | 44.90 | 0.48 | 3530 | 530 | | | | |
| 130 | 36 | 39.25 | 0.54 | 3350 | 510 | | | | |
| 130 | 38 | 36.79 | 0.58 | 3260 | 500 | | | | |
| 130 | 43 | 32.47 | 0.65 | 3100 | 480 | | | | |
| 130 | 49 | 28.78 | 0.73 | 2950 | 450 | | | | |
| 130 | 57 | 24.47 | 0.86 | 2770 | 420 | | | | |
| 130 | 49 | 28.37 | 0.74 | 2940 | 1070 | TR | 28 | AD2 | 169 |
| 130 | 54 | 26.09 | 0.79 | 2840 | 1050 | TRF | 28 | AD2 | 169 |
| 130 | 63 | 22.32 | 0.93 | 2660 | 1000 | | | | |
| 130 | 72 | 19.35 | 1.1 | 2510 | 1550 | | | | |
| 130 | 77 | 18.08 | 1.1 | 2440 | 1540 | | | | |
| 130 | 90 | 15.63 | 1.3 | 2290 | 1520 | | | | |
| 130 | 105 | 13.28* | 1.5 | 2140 | 1500 | | | | |
| 129 | 118 | 11.86 | 1.7 | 1990 | 1490 | | | | |
| 122 | 138 | 10.13 | 1.9 | 1890 | 1490 | | | | |
| 122 | 149 | 9.41 | 2.0 | 900 | 1140 | | | | |
| 116 | 172 | 8.16 | 2.2 | 870 | 1150 | | | | |
| 112 | 184 | 7.63* | 2.3 | 900 | 1160 | | | | |

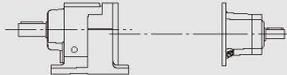
| M_{2max} [Nm] | n_2 [r/min] | i | P_{1n} [kW] | Fr_2 [N] | Fr_1 [N] |  | Page |
|--------------------|------------------|--------|------------------|---------------|---------------|--|------|
| 106 | 212 | 6.59 | 2.5 | 880 | 1160 | TR 28 AD2 | 169 |
| 99 | 250 | 5.60* | 2.7 | 880 | 1180 | TRF 28 AD2 | 169 |
| 95 | 280 | 5.00* | 2.9 | 860 | 1180 | | |
| 87 | 328 | 4.27 | 3.1 | 920 | 1200 | | |
| 85 | 350 | 4.00* | 3.3 | 910 | 1200 | | |
| 79 | 415 | 3.37 | 3.6 | 900 | 1190 | | |
| 200 | 10 | 134.82 | 0.26 | 4950 | 670 | TR 38 AD1 | 169 |
| 200 | 11 | 123.66 | 0.28 | 4950 | 660 | TRF 38 AD1 | 169 |
| 200 | 13 | 105.28 | 0.32 | 4950 | 650 | | |
| 200 | 15 | 90.77 | 0.37 | 4950 | 635 | | |
| 200 | 17 | 84.61 | 0.39 | 4950 | 625 | | |
| 200 | 19 | 73.96 | 0.45 | 4950 | 610 | TR 38 AD1 | 169 |
| 200 | 20 | 69.33 | 0.48 | 4950 | 600 | TRF 38 AD1 | 169 |
| 200 | 23 | 61.18 | 0.54 | 4950 | 585 | | |
| 200 | 25 | 55.76 | 0.58 | 4950 | 340 | | |
| 200 | 29 | 48.08 | 0.69 | 4950 | 1500 | TR 38 AD2 | 169 |
| 200 | 31 | 44.81 | 0.73 | 4950 | 1480 | TRF 38 AD2 | 169 |
| 200 | 36 | 39.17 | 0.83 | 4760 | 1440 | | |
| 200 | 38 | 36.72 | 0.89 | 4540 | 1420 | | |
| 200 | 43 | 32.40 | 0.99 | 4120 | 1380 | | |
| 200 | 49 | 28.73 | 1.1 | 3740 | 1640 | | |
| 200 | 57 | 24.42 | 1.3 | 3240 | 1630 | | |
| 189 | 49 | 28.32 | 1.1 | 4000 | 450 | TR 38 AD2 | 169 |
| 173 | 54 | 26.03 | 1.0 | 4180 | 585 | TRF 38 AD2 | 169 |
| 200 | 63 | 22.27 | 1.4 | 2970 | 1370 | | |
| 200 | 73 | 19.31 | 1.6 | 2570 | 1340 | | |
| 200 | 78 | 18.05 | 1.7 | 2390 | 1330 | | |
| 200 | 90 | 15.60 | 2.0 | 2010 | 1300 | | |
| 190 | 106 | 13.25 | 2.2 | 1880 | 1310 | | |
| 183 | 118 | 11.83 | 2.4 | 1810 | 1310 | | |
| 170 | 139 | 10.11 | 2.6 | 1820 | 1310 | | |
| 167 | 148 | 9.47 | 2.7 | 1760 | 1310 | | |
| 156 | 176 | 7.97 | 3.0 | 1720 | 1300 | | |
| 144 | 210 | 6.67 | 3.3 | 1000 | 910 | | |
| 142 | 247 | 5.67 | 3.8 | 760 | 880 | | |
| 135 | 277 | 5.06 | 4.1 | 790 | 890 | | |
| 126 | 324 | 4.32 | 4.5 | 820 | 900 | | |
| 121 | 346 | 4.05 | 4.6 | 880 | 910 | | |
| 107 | 411 | 3.41 | 4.8 | 1070 | 950 | | |
| 300 | 7.9 | 176.88 | 0.30 | 5420 | 1780 | TR 48 AD2 | 169 |
| 300 | 8.6 | 162.94 | 0.33 | 5420 | 1780 | TRF 48 AD2 | 169 |
| 300 | 10 | 139.99 | 0.37 | 5420 | 1780 | | |
| 300 | 11 | 121.87 | 0.42 | 5420 | 1770 | | |
| 300 | 12 | 114.17 | 0.45 | 5420 | 1770 | TR 48 AD2 | 169 |
| 300 | 15 | 93.68 | 0.54 | 5420 | 1760 | TRF 48 AD2 | 169 |
| 300 | 16 | 84.90 | 0.60 | 5420 | 1760 | | |
| 300 | 18 | 76.23 | 0.66 | 5420 | 1750 | | |
| 300 | 20 | 68.54 | 0.72 | 5420 | 1440 | | |
| 300 | 22 | 64.21 | 0.77 | 5420 | 1430 | | |
| 300 | 25 | 56.73 | 0.86 | 5420 | 1400 | | |
| 300 | 27 | 52.69 | 0.93 | 5350 | 1370 | | |
| 300 | 29 | 47.75 | 1.0 | 5150 | 1350 | | |
| 300 | 33 | 42.87 | 1.1 | 4930 | 1640 | | |
| 300 | 38 | 36.93 | 1.3 | 4630 | 1620 | | |
| 300 | 40 | 34.73 | 1.4 | 4520 | 1610 | | |
| 300 | 47 | 29.88 | 1.6 | 4240 | 1600 | | |
| 300 | 52 | 26.70 | 1.8 | 4050 | 1580 | | |
| 300 | 59 | 23.59 | 2.0 | 3840 | 1560 | | |
| 225 | 41 | 33.79 | 1.0 | 4740 | 510 | TR 48 AD2 | 169 |
| 205 | 45 | 31.12 | 1.0 | 4660 | 650 | TRF 48 AD2 | 169 |

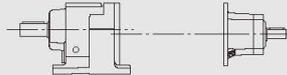
| $M_{2\max}$ [Nm] | n_2 [r/min] | i | P_{1n} [kW] | Fr_2 [N] | Fr_1 [N] |  | Page |
|---------------------|------------------|--------|------------------|---------------|---------------|---|------|
| 300 | 52 | 26.74 | 1.7 | 4050 | 1270 | TR 48 | 169 |
| 300 | 60 | 23.28 | 2.0 | 3820 | 1250 | TRF 48 | 169 |
| 300 | 64 | 21.81 | 2.1 | 3710 | 1240 | | |
| 295 | 73 | 19.27 | 2.4 | 3530 | 1220 | | |
| 290 | 78 | 17.89 | 2.5 | 3390 | 1210 | | |
| 275 | 86 | 16.22 | 2.6 | 3350 | 1240 | | |
| 265 | 96 | 14.56 | 2.8 | 3230 | 1240 | | |
| 250 | 112 | 12.54 | 3.1 | 3080 | 1240 | | |
| 245 | 119 | 11.79 | 3.2 | 3020 | 1240 | | |
| 230 | 138 | 10.15 | 3.5 | 2890 | 1240 | | |
| 220 | 154 | 9.07 | 3.7 | 2780 | 1230 | | |
| 205 | 175 | 8.01 | 3.9 | 2690 | 1250 | | |
| 163 | 181 | 7.76* | 3.2 | 2720 | 1080 | | |
| 159 | 201 | 6.96 | 3.5 | 2620 | 1070 | | |
| 156 | 233 | 6.00 | 4.0 | 2470 | 1040 | | |
| 155 | 248 | 5.64* | 4.2 | 2410 | 1020 | | |
| 150 | 288 | 4.85 | 4.7 | 2280 | 990 | | |
| 146 | 323 | 4.34 | 5.1 | 2190 | 970 | | |
| 144 | 365 | 3.83 | 5.8 | 2090 | 1970 | TR 48 | 169 |
| | | | | | | TRF 48 | 169 |
| 450 | 7.5 | 186.89 | 0.42 | 7110 | 1690 | TR 58 | 169 |
| 450 | 8.1 | 172.17 | 0.45 | 7110 | 1680 | TRF 58 | 169 |
| 450 | 9.5 | 147.92 | 0.51 | 7110 | 1660 | | |
| 450 | 11 | 128.77 | 0.58 | 7110 | 1640 | | |
| 450 | 12 | 120.63 | 0.62 | 7110 | 1630 | | |
| 450 | 13 | 106.58 | 0.70 | 7110 | 1610 | | |
| 450 | 14 | 98.99 | 0.75 | 7110 | 1580 | | |
| 450 | 16 | 89.71 | 0.83 | 7110 | 1570 | | |
| 450 | 17 | 80.55 | 0.91 | 7110 | 1540 | | |
| 450 | 20 | 69.23 | 1.0 | 7110 | 1010 | | |
| 450 | 22 | 64.85 | 1.1 | 6980 | 1560 | | |
| 450 | 24 | 57.29 | 1.3 | 6630 | 1550 | | |
| 450 | 26 | 53.22 | 1.3 | 6430 | 1540 | | |
| 450 | 29 | 48.23 | 1.5 | 6170 | 1530 | | |
| 450 | 32 | 43.30 | 1.6 | 5900 | 1520 | | |
| 450 | 38 | 37.30* | 1.9 | 5530 | 1500 | | |
| 450 | 40 | 35.07 | 2.0 | 5390 | 1490 | | |
| 450 | 46 | 30.18 | 2.4 | 5050 | 1460 | | |
| 450 | 52 | 26.97 | 2.6 | 4800 | 1430 | | |
| 420 | 53 | 26.31 | 2.5 | 4860 | 1100 | TR 58 | 169 |
| 410 | 56 | 24.99* | 2.5 | 4780 | 1120 | TRF 58 | 169 |
| 450 | 64 | 21.93 | 3.2 | 4370 | 990 | | |
| 450 | 75 | 18.60* | 3.7 | 4050 | 950 | | |
| 450 | 83 | 16.79 | 4.1 | 3860 | 920 | | |
| 435 | 95 | 14.77* | 4.5 | 3690 | 920 | | |
| 430 | 100 | 13.95* | 4.8 | 3610 | 1940 | TR 58 | 169 |
| 405 | 118 | 11.88 | 5.3 | 3430 | 1930 | TRF 58 | 169 |
| 390 | 130 | 10.79 | 5.6 | 3330 | 1930 | | |
| 370 | 150 | 9.35 | 6.1 | 3180 | 1920 | | |
| 335 | 155 | 9.06 | 5.6 | 2900 | 1580 | | |
| 355 | 176 | 7.97 | 6.8 | 2020 | 1450 | | |
| 350 | 186 | 7.53 | 7.1 | 1950 | 1450 | | |
| 335 | 218 | 6.41 | 8.0 | 1770 | 1410 | | |
| 320 | 240 | 5.82 | 8.4 | 1820 | 1420 | | |
| 305 | 277 | 5.05 | 9.2 | 1730 | 1400 | | |
| 280 | 319 | 4.39 | 9.7 | 1900 | 1430 | | |
| 600 | 7 | 199.81 | 0.51 | 7560 | 1510 | TR 68 | 169 |
| 600 | 7.6 | 184.07 | 0.54 | 7560 | 1490 | TRF 68 | 169 |
| 600 | 8.8 | 158.14 | 0.63 | 7560 | 1470 | | |

| M_{2max} [Nm] | n_2 [r/min] | i | P_{1n} [kW] | Fr_2 [N] | Fr_1 [N] |  | Page |
|--------------------|------------------|---------|------------------|---------------|---------------|--|------|
| 600 | 10 | 137.67 | 0.72 | 7560 | 1440 | TR 68 | 169 |
| 600 | 11 | 128.97 | 0.77 | 7560 | 1430 | TRF 68 | 169 |
| 600 | 12 | 113.94 | 0.86 | 7560 | 1400 | AD2 | |
| 600 | 13 | 105.83 | 0.92 | 7560 | 1360 | | |
| 600 | 15 | 95.91 | 1.0 | 7560 | 1350 | | |
| 600 | 16 | 86.11 | 1.1 | 7560 | 1630 | | |
| 600 | 19 | 74.17 | 1.3 | 7560 | 1620 | | |
| 600 | 20 | 69.75 | 1.4 | 7560 | 1610 | | |
| 600 | 23 | 61.26 | 1.5 | 7560 | 1450 | | |
| 600 | 25 | 56.89 | 1.7 | 7560 | 1430 | | |
| 600 | 27 | 51.56 | 1.8 | 7560 | 1420 | | |
| 600 | 30 | 46.29 | 2.0 | 7560 | 1400 | | |
| 580 | 35 | 39.88* | 2.3 | 7790 | 1390 | | |
| 570 | 37 | 37.50 | 2.4 | 7900 | 1390 | | |
| 540 | 43 | 32.27 | 2.6 | 8210 | 1390 | | |
| 520 | 49 | 28.83 | 2.8 | 8400 | 1380 | | |
| 410 | 50 | 28.13 | 2.2 | 9270 | 1140 | TR 68 | 169 |
| 400 | 52 | 26.72 | 2.3 | 9340 | 1160 | TRF 68 | 169 |
| 560 | 60 | 23.44 | 3.6 | 8010 | 800 | AD2 | |
| 600 | 70 | 19.89 | 4.7 | 7560 | 1700 | AD3 | 169 |
| 590 | 78 | 17.95 | 5.1 | 7330 | 1690 | TRF 68 | 169 |
| 560 | 89 | 15.79 | 5.5 | 7130 | 1710 | | |
| 550 | 94 | 14.91 | 5.7 | 6980 | 1710 | | |
| 520 | 110 | 12.70 | 6.3 | 6650 | 1700 | | |
| 500 | 121 | 11.54 | 6.6 | 6500 | 1700 | | |
| 470 | 140 | 10.00 | 7.2 | 6220 | 1700 | | |
| 440 | 161 | 8.70* | 7.7 | 5960 | 1700 | | |
| 380 | 180 | 7.79 | 7.4 | 5830 | 1270 | | |
| 370 | 190 | 7.36* | 7.7 | 5790 | 1280 | | |
| 330 | 223 | 6.27 | 8.0 | 5590 | 1350 | | |
| 310 | 246 | 5.70 | 8.3 | 5450 | 1390 | | |
| 290 | 284 | 4.93 | 9.0 | 5210 | 1390 | | |
| 270 | 326 | 4.29 | 9.6 | 5000 | 1400 | | |
| 820 | 7.2 | 195.24* | 0.69 | 9920 | 1310 | TR 78 | 169 |
| 820 | 8.4 | 166.59 | 0.80 | 9920 | 1270 | TRF 78 | 169 |
| 820 | 9.6 | 145.67 | 0.92 | 9920 | 1240 | | |
| 820 | 10 | 138.39 | 0.96 | 9920 | 1240 | | |
| 820 | 12 | 121.42 | 1.1 | 9920 | 1620 | | |
| 820 | 14 | 102.99 | 1.3 | 9920 | 1610 | | |
| 820 | 15 | 92.97 | 1.4 | 9920 | 1600 | | |
| 820 | 17 | 81.80 | 1.6 | 9920 | 1590 | | |
| 820 | 18 | 77.24 | 1.7 | 9920 | 1580 | | |
| 820 | 21 | 65.77 | 2.0 | 9920 | 1560 | | |
| 820 | 24 | 57.68 | 2.2 | 9920 | 1380 | | |
| 820 | 27 | 52.07 | 2.5 | 9920 | 1360 | | |
| 820 | 31 | 45.81 | 2.8 | 9920 | 1350 | | |
| 820 | 32 | 43.26 | 3.0 | 9920 | 1330 | | |
| 820 | 38 | 36.83 | 3.5 | 9920 | 1290 | | |
| 820 | 42 | 33.47 | 3.8 | 9920 | 1260 | | |
| 820 | 48 | 29.00 | 4.4 | 9920 | 1220 | | |
| 780 | 55 | 25.23 | 4.8 | 10100 | 1210 | | |
| 820 | 60 | 23.37 | 5.4 | 8870 | 1620 | TR 78 | 169 |
| 820 | 65 | 21.43 | 5.8 | 8250 | 1600 | TRF 78 | 169 |
| 780 | 74 | 18.80 | 6.3 | 7980 | 1620 | | |
| 780 | 79 | 17.82* | 6.7 | 7620 | 1600 | | |
| 740 | 90 | 15.60 | 7.2 | 7390 | 1610 | | |
| 720 | 100 | 14.05 | 7.8 | 7050 | 1580 | | |
| 690 | 114 | 12.33 | 8.5 | 6740 | 1570 | | |
| 660 | 129 | 10.88 | 9.3 | 6490 | 1560 | | |
| 630 | 145 | 9.64 | 10.0 | 6300 | 1550 | | |

| $M_{2\max}$ [Nm] | n_2 [r/min] | i | P_{1n} [kW] | Fr_2 [N] | Fr_1 [N] |  | Page |
|---------------------|------------------|---------|------------------|---------------|---------------|---|----------------|
| 630 | 163 | 8.59 | 11.2 | 4110 | 2960 | TR 78 | AD4 169 |
| 610 | 181 | 7.74 | 12.0 | 3940 | 2930 | TRF 78 | AD4 169 |
| 580 | 206 | 6.79 | 13.0 | 3850 | 2940 | | |
| 540 | 234 | 5.99* | 13.8 | 3990 | 2980 | | |
| 510 | 264 | 5.31* | 14.7 | 3990 | 2990 | | |
| 1550 | 5.7 | 246.54 | 1.0 | 16900 | 1580 | TR 88 | AD2 169 |
| 1550 | 6.5 | 216.54 | 1.1 | 16900 | 1570 | TRF 88 | AD2 169 |
| 1550 | 6.8 | 205.71 | 1.2 | 16900 | 1570 | | |
| 1550 | 7.7 | 181.77 | 1.4 | 16900 | 1540 | | |
| 1550 | 9 | 155.34 | 1.6 | 16900 | 1530 | | |
| 1550 | 9.8 | 142.41 | 1.7 | 16900 | 1520 | | |
| 1550 | 11 | 124.97 | 2.0 | 16900 | 1510 | | |
| 1550 | 12 | 118.43* | 2.1 | 16900 | 1500 | | |
| 1550 | 14 | 103.65 | 2.4 | 16900 | 1480 | | |
| 1550 | 15 | 93.38 | 2.6 | 16900 | 1460 | | |
| 1550 | 17 | 81.92 | 3.0 | 16900 | 1440 | | |
| 1550 | 19 | 72.57 | 3.3 | 16900 | 1150 | | |
| 1550 | 22 | 63.68* | 3.8 | 15800 | 1130 | | |
| 1550 | 23 | 60.35* | 4.0 | 15200 | 1110 | | |
| 1550 | 27 | 52.82 | 4.6 | 13500 | 1070 | | |
| 1550 | 29 | 47.58 | 5.1 | 12300 | 1030 | | |
| 1550 | 34 | 41.74 | 5.8 | 16900 | 1940 | TR 88 | AD3 169 |
| 1550 | 38 | 36.84* | 6.6 | 16800 | 1890 | TRF 88 | AD3 169 |
| 1550 | 43 | 32.66* | 7.4 | 16000 | 1840 | | |
| 1500 | 50 | 27.88 | 8.4 | 15100 | 1800 | | |
| 1360 | 41 | 34.40* | 6.0 | 11500 | 1390 | TR 88 | AD3 169 |
| 1280 | 45 | 31.40 | 6.2 | 11700 | 1450 | TRF 88 | AD3 169 |
| 1550 | 50 | 27.84* | 8.6 | 15000 | 3190 | TR 88 | AD4 169 |
| 1550 | 60 | 23.40 | 10.2 | 13900 | 3120 | TRF 88 | AD4 169 |
| 1500 | 65 | 21.51 | 10.8 | 13600 | 3120 | | |
| 1440 | 73 | 19.10 | 11.5 | 13000 | 3120 | | |
| 1390 | 82 | 17.08* | 12.4 | 12600 | 3120 | | |
| 1280 | 105 | 13.33 | 14.7 | 11600 | 3100 | | |
| 1230 | 117 | 11.93 | 15.7 | 11200 | 3100 | | |
| 1180 | 141 | 9.90* | 18.2 | 10400 | 3010 | | |
| 1210 | 153 | 9.14* | 20 | 10500 | 5340 | TR 88 | AD5 169 |
| 1160 | 170 | 8.22 | 22 | 10200 | 5360 | TRF 88 | AD5 169 |
| 1070 | 196 | 7.13 | 23 | 9780 | 5430 | | |
| 1020 | 219 | 6.39 | 24 | 9450 | 5440 | | |
| 910 | 264 | 5.30* | 26 | 8980 | 5500 | | |
| 3000 | 6.5 | 216.28 | 2.2 | 19800 | 2210 | TR 98 | AD3 169 |
| 3000 | 7.5 | 186.30 | 2.6 | 19800 | 2200 | TRF 98 | AD3 169 |
| 3000 | 8.2 | 170.02 | 2.8 | 19800 | 2180 | | |
| 3000 | 9.3 | 150.78 | 3.1 | 19800 | 2170 | | |
| 3000 | 11 | 126.75 | 3.7 | 19800 | 2140 | | |
| 3000 | 12 | 116.48 | 4.1 | 19800 | 2120 | | |
| 3000 | 14 | 103.44 | 4.6 | 19800 | 2100 | | |
| 3000 | 15 | 92.48 | 5.1 | 19800 | 2070 | | |
| 3000 | 17 | 83.15 | 5.6 | 19800 | 2040 | | |
| 3000 | 19 | 72.17 | 6.5 | 18000 | 2000 | | |
| 3000 | 21 | 65.21 | 7.2 | 19800 | 1540 | | |
| 3000 | 23 | 59.92 | 7.8 | 19800 | 1500 | | |
| 3000 | 26 | 53.21 | 8.8 | 19800 | 1450 | | |
| 3000 | 29 | 47.58 | 9.8 | 19800 | 3440 | TR 98 | AD4 169 |
| 3000 | 33 | 42.78 | 10.9 | 19800 | 3390 | TRF 98 | AD4 169 |
| 3000 | 38 | 37.13 | 12.6 | 18600 | 3310 | | |
| 2890 | 42 | 33.25 | 13.6 | 17900 | 3300 | | |
| 2670 | 51 | 27.58 | 15.1 | 16900 | 3290 | | |
| 2560 | 44 | 32.05 | 12.2 | 10600 | 2340 | TR 98 | AD4 169 |
| 2430 | 52 | 27.19 | 13.7 | 9910 | 2460 | TRF 98 | AD4 169 |

| M_{2max} [Nm] | n_2 [r/min] | i | P_{1n} [kW] | Fr_2 [N] | Fr_1 [N] |  | Page |
|--------------------|------------------|---------|------------------|---------------|---------------|--|------|
| 2830 | 56 | 25.03 | 17.4 | 15900 | 5270 | TR 98 AD5 | 169 |
| 2720 | 63 | 22.37 | 19 | 15300 | 5300 | TRF 98 AD5 | 169 |
| 2610 | 70 | 20.14 | 20 | 14800 | 5340 | | |
| 2500 | 77 | 18.24 | 21 | 14400 | 5370 | | |
| 2400 | 87 | 16.17 | 23 | 13800 | 5390 | | |
| 2300 | 96 | 14.62 | 24 | 13400 | 5420 | | |
| 2190 | 113 | 12.39 | 27 | 12700 | 5370 | | |
| 2090 | 129 | 10.83 | 29 | 12100 | 5370 | | |
| 2030 | 151 | 9.29 | 33 | 12200 | 4250 | | |
| 2030 | 167 | 8.39 | 37 | 11700 | 4120 | | |
| 2000 | 197 | 7.12 | 43 | 10900 | 3760 | | |
| 1890 | 225 | 6.21 | 46 | 10500 | 3890 | | |
| 1780 | 269 | 5.20 | 52 | 9850 | 6860 | TR 98 AD6 | 169 |
| 1630 | 311 | 4.50* | 55 | 9500 | 6930 | TRF 98 AD6 | 169 |
| 4300 | 5.6 | 251.15 | 2.7 | 29500 | 2160 | TR 108 AD3 | 169 |
| 4300 | 6.1 | 229.95 | 3.0 | 29500 | 2150 | TRF 108 AD3 | 169 |
| 4300 | 6.9 | 203.16 | 3.3 | 29500 | 2130 | | |
| 4300 | 8.1 | 172.34 | 3.9 | 29500 | 2100 | | |
| 4300 | 8.8 | 158.68 | 4.3 | 29500 | 2090 | | |
| 4300 | 9.9 | 141.83 | 4.8 | 29500 | 2060 | | |
| 4300 | 11 | 127.68 | 5.3 | 29500 | 2040 | | |
| 4300 | 12 | 115.63 | 5.9 | 29500 | 2020 | | |
| 4300 | 14 | 102.53 | 6.5 | 29500 | 1990 | | |
| 4300 | 15 | 92.70 | 7.2 | 29500 | 1960 | | |
| 4300 | 18 | 78.57 | 8.5 | 29500 | 1890 | | |
| 4300 | 19 | 72.88 | 9.2 | 29500 | 1390 | | |
| 4300 | 21 | 65.60* | 10.2 | 29200 | 3390 | TR 108 AD4 | 169 |
| 4300 | 24 | 59.41 | 11.3 | 28000 | 3350 | TRF 108 AD4 | 169 |
| 4300 | 27 | 52.68 | 12.7 | 26600 | 3300 | | |
| 4300 | 29 | 47.63 | 14.1 | 25500 | 3250 | | |
| 4300 | 35 | 40.37* | 16.6 | 23800 | 3140 | | |
| 4300 | 40 | 35.26 | 19 | 22400 | 3060 | | |
| 4300 | 47 | 29.49 | 23 | 20700 | 2920 | | |
| 4300 | 46 | 30.77 | 21 | 21100 | 4790 | TR 108 AD5 | 169 |
| 4300 | 51 | 27.58 | 24 | 20100 | 4710 | TRF 108 AD5 | 169 |
| 4300 | 56 | 24.90* | 26 | 19200 | 4580 | | |
| 4300 | 62 | 22.62 | 29 | 18300 | 4490 | | |
| 4300 | 70 | 20.07 | 33 | 17300 | 4390 | | |
| 4300 | 77 | 18.21 | 36 | 16600 | 4280 | | |
| 4300 | 89 | 15.65 | 42 | 15400 | 4030 | | |
| 4300 | 102 | 13.66 | 48 | 14400 | 6880 | TR 108 AD6 | 169 |
| 4280 | 121 | 11.59 | 56 | 13300 | 6630 | TRF 108 AD6 | 169 |
| 3740 | 138 | 10.13 | 56 | 13300 | 6920 | | |
| 3160 | 163 | 8.56 | 56 | 13200 | 7270 | | |
| 2900 | 178 | 7.86 | 56 | 13900 | 6200 | | |
| 2460 | 210 | 6.66 | 56 | 13500 | 6640 | | |
| 2150 | 240 | 5.82 | 56 | 13200 | 6920 | | |
| 2000 | 284 | 4.92 | 62 | 12500 | 6940 | | |
| 8000 | 6.3 | 222.60* | 5.7 | 53400 | 3730 | TR 138 AD4 | 169 |
| 8000 | 7.4 | 188.45 | 6.7 | 53400 | 3690 | TRF 138 AD4 | 169 |
| 8000 | 8 | 174.40* | 7.2 | 53400 | 3660 | | |
| 8000 | 9 | 156.31 | 8.1 | 53400 | 3630 | | |
| 8000 | 9.9 | 141.12* | 8.8 | 53400 | 3580 | | |
| 8000 | 11 | 128.18 | 9.7 | 53400 | 3550 | | |
| 8000 | 12 | 113.72 | 11.0 | 53400 | 3510 | | |
| 8000 | 14 | 103.20* | 12.1 | 53400 | 3470 | | |
| 8000 | 16 | 88.70* | 14.1 | 53400 | 3400 | | |
| 8000 | 17 | 80.91* | 15.4 | 53400 | 2760 | | |
| 8000 | 19 | 73.49 | 17 | 53400 | 2700 | | |
| 8000 | 21 | 65.20 | 19 | 53400 | 2640 | | |
| 8000 | 24 | 59.17* | 21 | 53400 | 2570 | | |

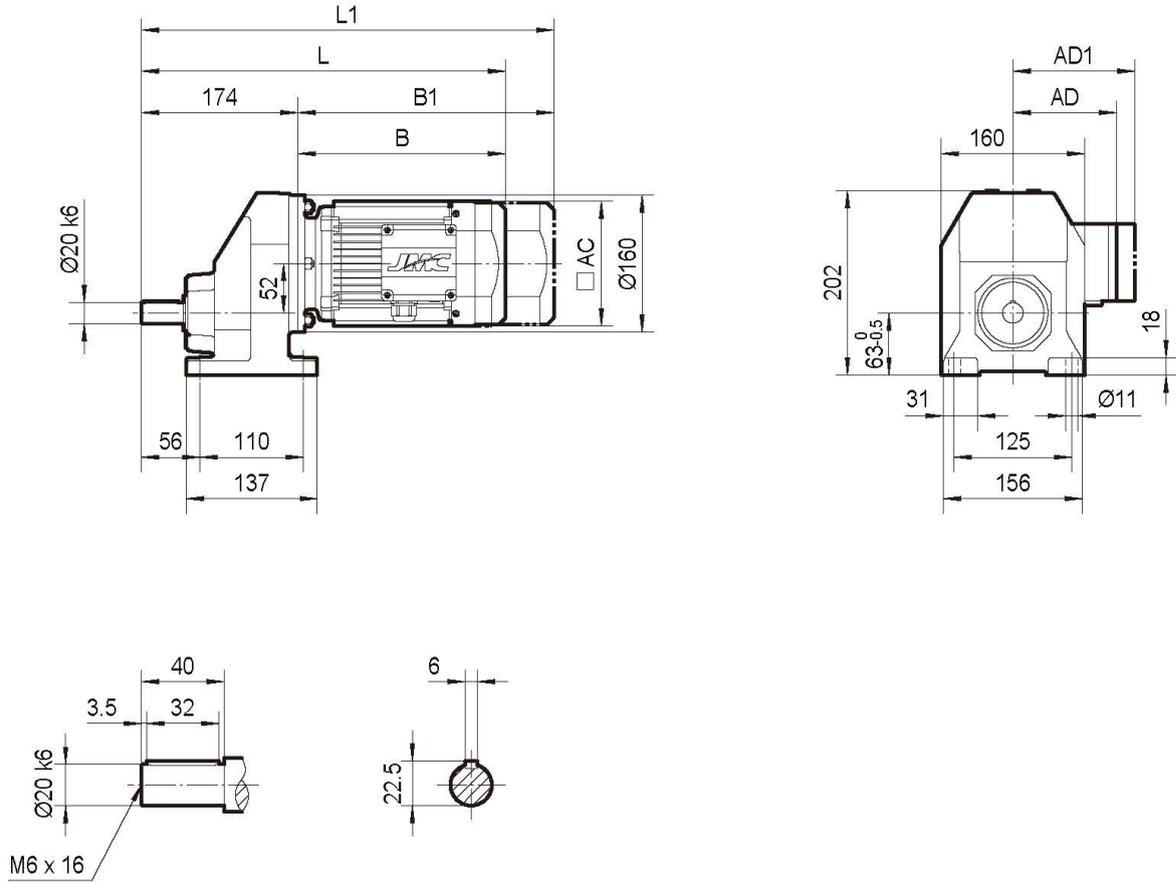
| $M_{2\max}$ [Nm] | n_2 [r/min] | i | P_{1n} [kW] | Fr_2 [N] | Fr_1 [N] |  | Page |
|---------------------|------------------|---------|------------------|---------------|---------------|---|------|
| 8000 | 28 | 50.86* | 25 | 53400 | 5660 | TR 138 AD5 | 169 |
| 8000 | 32 | 44.39 | 28 | 53400 | 5550 | TRF 138 AD5 | 169 |
| 8000 | 37 | 37.65 | 33 | 53400 | 5380 | | |
| 8000 | 43 | 32.91 | 38 | 53400 | 5230 | | |
| 7680 | 50 | 27.83 | 43 | 54100 | 5150 | | |
| 7780 | 47 | 29.57* | 40 | 53900 | 5130 | TR 138 AD6 | 169 |
| 8000 | 58 | 24.12 | 51 | 49400 | 4260 | TRF 138 AD6 | 169 |
| 8000 | 64 | 22.00* | 56 | 47100 | 11600 | TR 138 AD7 | 169 |
| 8000 | 74 | 19.04* | 64 | 43500 | 10600 | TRF 138 AD7 | 169 |
| 8000 | 83 | 16.80* | 73 | 40600 | 9800 | | |
| 8000 | 96 | 14.51 | 83 | 37300 | 8660 | | |
| 7390 | 109 | 12.83 | 87 | 37400 | 9730 | | |
| 7200 | 130 | 10.79 | 101 | 34700 | 8730 | | |
| 6900 | 161 | 8.71 | 120 | 31900 | 7420 | | |
| 4600 | 184 | 7.59 | 92 | 41100 | 8330 | | |
| 4400 | 219 | 6.38 | 104 | 38900 | 7810 | | |
| 4100 | 272 | 5.15 | 120 | 36600 | 7290 | | |
| 13000 | 8.6 | 163.31 | 12.4 | 62700 | 2960 | TR 148 AD4 | 169 |
| 13000 | 9.5 | 146.91 | 13.8 | 62700 | 2910 | TRF 148 AD4 | 169 |
| 13000 | 12 | 119.86 | 16.9 | 62700 | 2770 | | |
| 13000 | 13 | 109.31 | 19 | 62700 | 2720 | | |
| 13000 | 15 | 94.60* | 21 | 62700 | 2620 | | |
| 13000 | 17 | 83.47 | 24 | 62700 | 2530 | | |
| 13000 | 19 | 72.09 | 28 | 62700 | 5660 | TR 148 AD5 | 169 |
| 13000 | 21 | 66.99 | 30 | 62700 | 4520 | TRF 148 AD5 | 169 |
| 13000 | 23 | 61.09 | 33 | 62700 | 4440 | | |
| 13000 | 26 | 52.87 | 38 | 62700 | 4280 | | |
| 13000 | 30 | 46.65 | 43 | 62700 | 4150 | | |
| 13000 | 35 | 40.29 | 50 | 62700 | 6940 | TR 148 AD6 | 169 |
| | | | | | | TRF 148 AD6 | 169 |
| 13000 | 39 | 35.64 | 56 | 62700 | 16800 | TR 148 AD7 | 169 |
| 13000 | 47 | 29.95 | 67 | 62700 | 16600 | TRF 148 AD7 | 169 |
| 11900 | 58 | 24.19 | 76 | 64700 | 16500 | | |
| 11700 | 69 | 20.44 | 87 | 65100 | 23700 | TR 148 AD8 | 169 |
| 10300 | 78 | 18.04 | 87 | 67300 | 24200 | TRF 148 AD8 | 169 |
| 13000 | 90 | 15.64 | 127 | 62700 | 22300 | | |
| 12300 | 101 | 13.91 | 134 | 64000 | 22500 | | |
| 10600 | 117 | 11.99 | 135 | 66900 | 23200 | | |
| 8650 | 144 | 9.74 | 136 | 67500 | 23900 | | |
| 7340 | 169 | 8.26 | 136 | 66900 | 24400 | | |
| 6440 | 193 | 7.25 | 136 | 65300 | 23200 | | |
| 5230 | 238 | 5.89 | 136 | 64000 | 23900 | | |
| 4430 | 280 | 5.00 | 135 | 62600 | 24400 | | |
| 18000 | 6.1 | 229.71 | 12.3 | 120000 | 6070 | TR 168 AD5 | 169 |
| 18000 | 7.5 | 186.93* | 15.0 | 120000 | 5990 | TRF 168 AD5 | 169 |
| 18000 | 9.2 | 153.07 | 18.3 | 120000 | 5860 | | |
| 18000 | 10 | 139.98 | 20 | 120000 | 5820 | | |
| 18000 | 11 | 121.81* | 23 | 120000 | 5740 | | |
| 18000 | 13 | 107.49 | 26 | 120000 | 5660 | | |
| 18000 | 15 | 93.19 | 30 | 120000 | 5550 | | |
| 18000 | 17 | 82.91* | 34 | 120000 | 5450 | | |
| 18000 | 19 | 73.70* | 38 | 120000 | 3300 | | |
| 18000 | 21 | 67.40 | 41 | 120000 | 6660 | TR 168 AD6 | 169 |
| 18000 | 24 | 58.65 | 47 | 120000 | 6500 | TRF 168 AD6 | 169 |
| 18000 | 27 | 51.76 | 54 | 120000 | 6350 | | |
| 18000 | 31 | 44.87 | 62 | 120000 | 15800 | TR 168 AD7 | 169 |
| 18000 | 35 | 39.92 | 70 | 120000 | 15100 | TRF 168 AD7 | 169 |
| 18000 | 41 | 34.41 | 81 | 120000 | 14300 | | |
| 18000 | 50 | 27.96 | 99 | 120000 | 25500 | TR 168 AD8 | 169 |
| 18000 | 59 | 23.71 | 117 | 116500 | 25100 | TRF 168 AD8 | 169 |

| M_{2max} [Nm] | n_2 [r/min] | i | P_{1n} [kW] | Fr_2 [N] | Fr_1 [N] |  | Page |
|--------------------|------------------|-------|------------------|---------------|---------------|--|---------------------------------|
| 7000 | 30 | 46.00 | 23 | 120000 | 4510 | TR 168 TRF 168 | AD5 AD5 169 |
| 9000 | 37 | 37.74 | 36 | 120000 | 6220 | TR 168 | AD6 169 |
| 10000 | 46 | 30.71 | 50 | 120000 | 4480 | TRF 168 | AD6 169 |
| 14000 | 57 | 24.57 | 87 | 120000 | 23600 | TR 168 | AD8 169 |
| 13000 | 64 | 21.85 | 91 | 120000 | 23900 | TRF 168 | AD8 169 |
| 16000 | 74 | 19.03 | 128 | 111400 | 22200 | | |
| 15000 | 82 | 16.98 | 134 | 108900 | 22400 | | |
| 18000 | 97 | 14.48 | 188 | 93800 | 20300 | | |
| 17000 | 117 | 11.99 | 214 | 88700 | 20100 | | |
| 17000 | 137 | 10.24 | 251 | 82500 | 19300 | | |

7. 外形尺寸图表 / OUTLINE DIMENSION SHEET

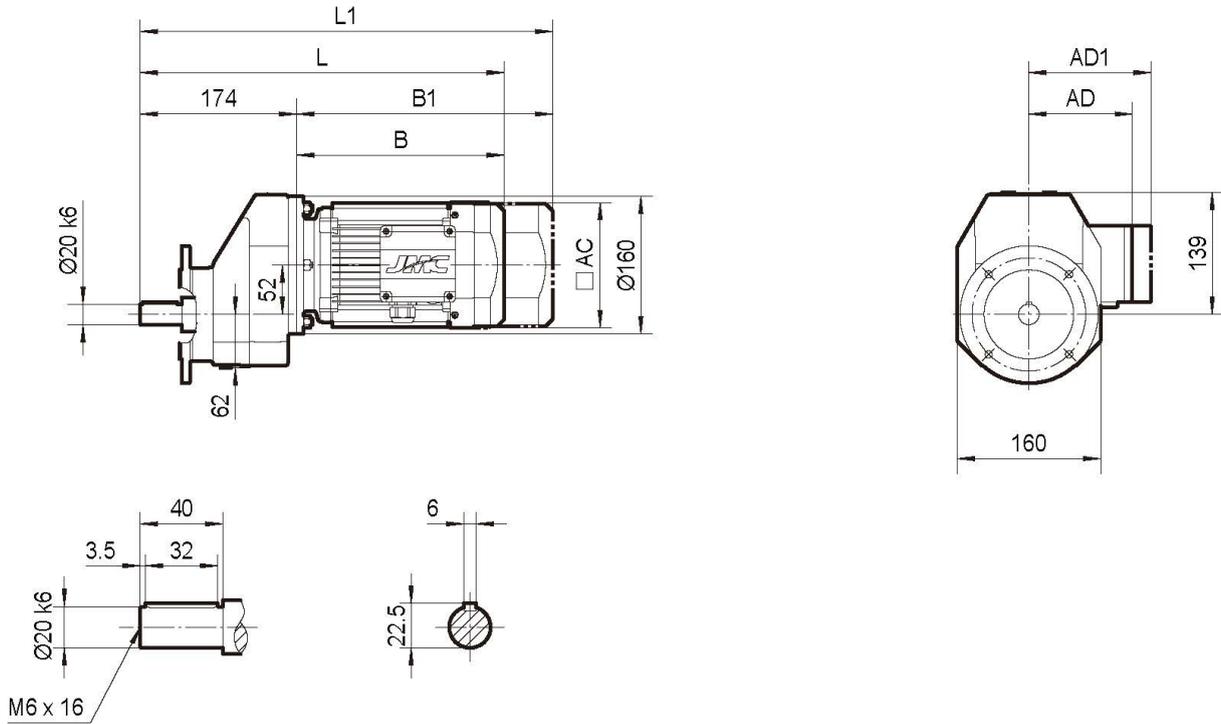
7.1 TRX.. 外形尺寸 / Outline Dimension

TRX58..



| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | | | |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--|--|--|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | 206 | 206 | | | |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | 178 | 178 | | | |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | 178 | 178 | | | |
| B | 185 | 199 | 250 | 290 | 309 | 339 | 354 | 402 | | | |
| B1 | 233 | 249 | 304 | 360 | 379 | 409 | 434 | 482 | | | |
| L | 359 | 373 | 424 | 464 | 483 | 513 | 528 | 576 | | | |
| L1 | 407 | 423 | 478 | 534 | 553 | 583 | 608 | 656 | | | |

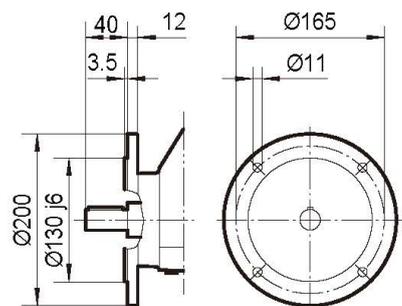
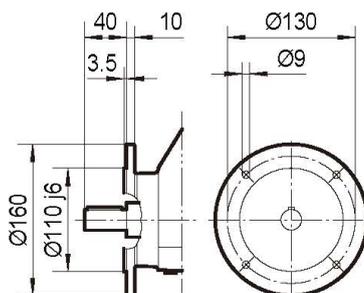
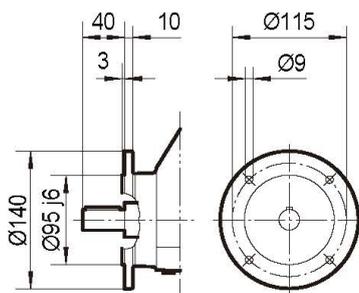
TRXF58..



I
Ø140

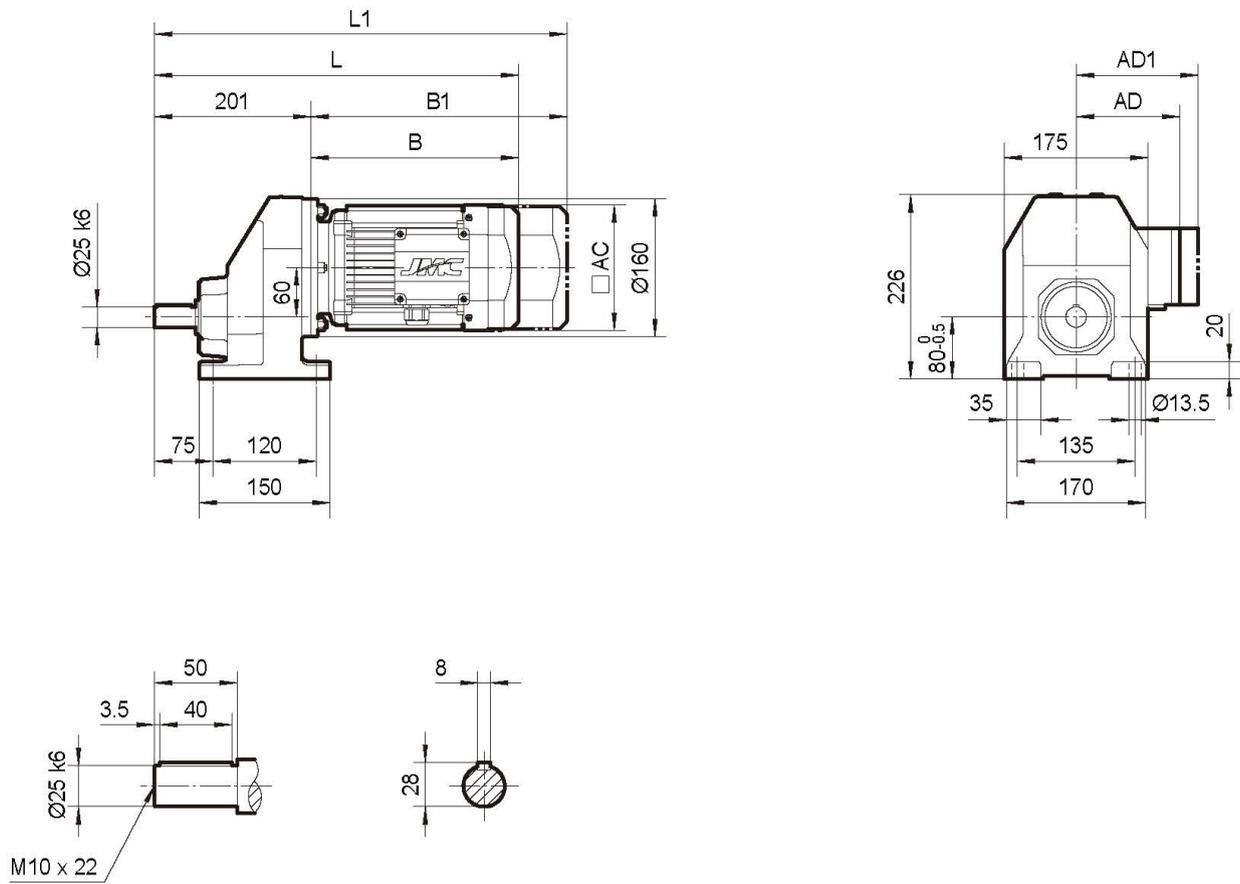
II
Ø160

III
Ø200

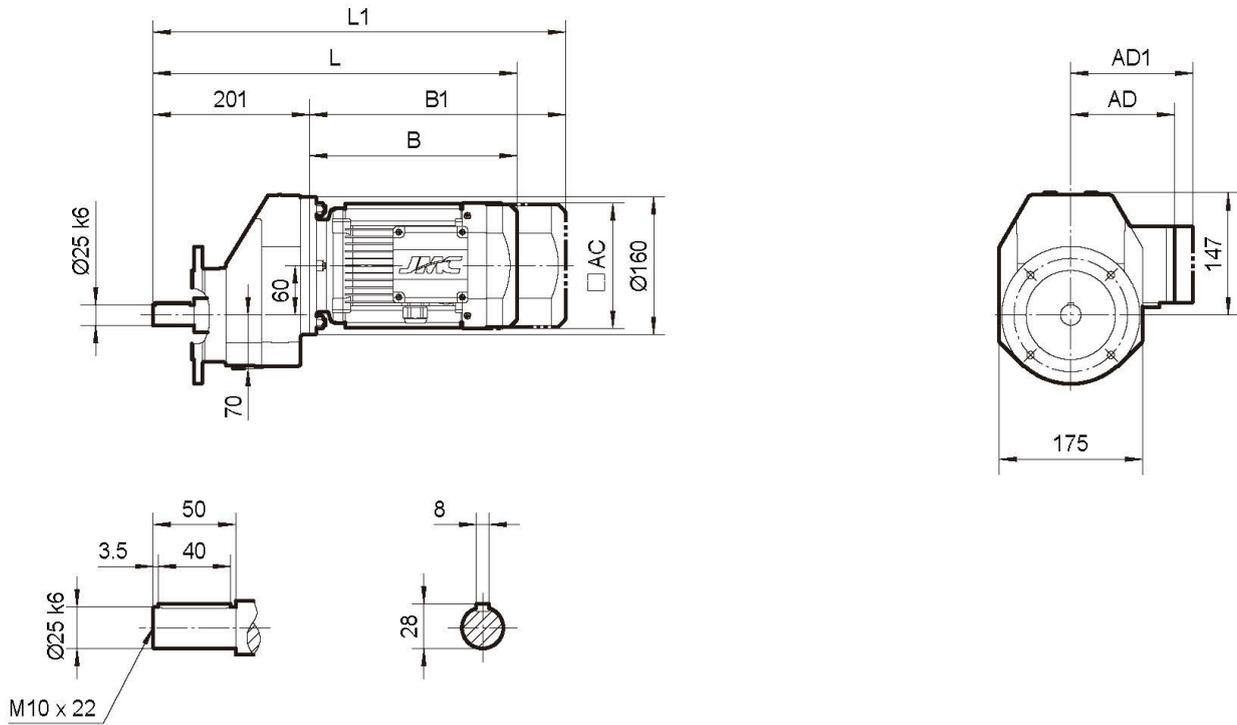
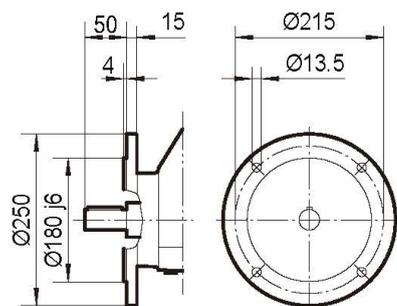
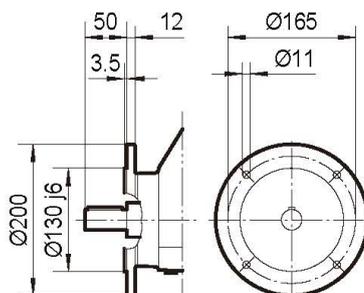
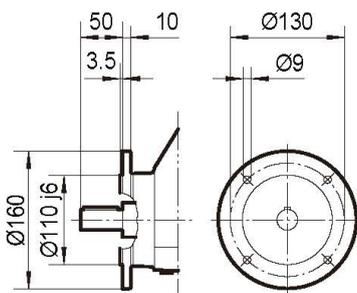


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | | | |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--|--|--|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | 206 | 206 | | | |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | 178 | 178 | | | |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | 178 | 178 | | | |
| B | 185 | 199 | 250 | 290 | 309 | 339 | 354 | 402 | | | |
| B1 | 233 | 249 | 304 | 360 | 379 | 409 | 434 | 482 | | | |
| L | 359 | 373 | 424 | 464 | 483 | 513 | 528 | 576 | | | |
| L1 | 407 | 423 | 478 | 534 | 553 | 583 | 608 | 656 | | | |

TRX68..

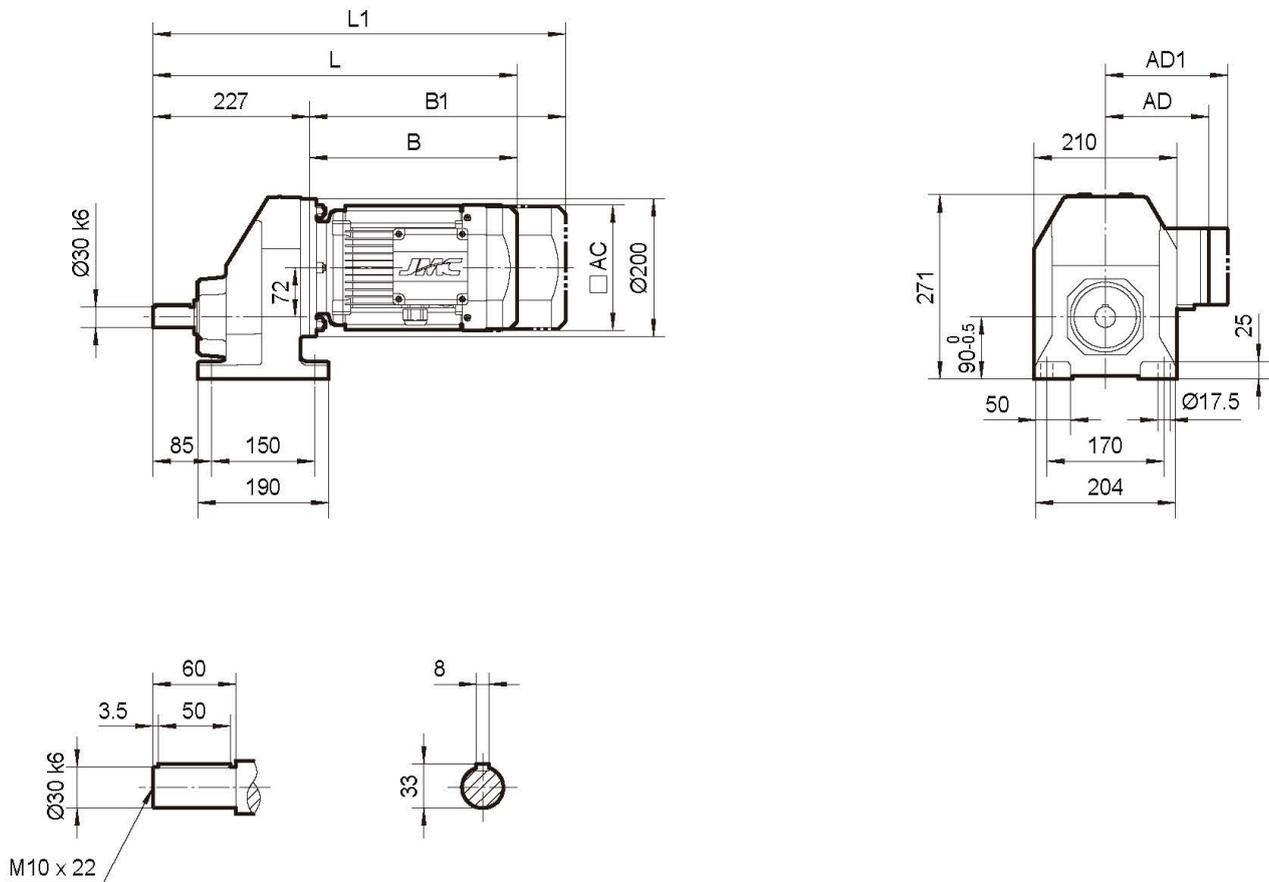


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | | |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--|--|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | 206 | 206 | 252 | | |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | 178 | 178 | 227 | | |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | 178 | 178 | 227 | | |
| B | 185 | 199 | 250 | 290 | 309 | 339 | 354 | 402 | 424 | | |
| B1 | 233 | 249 | 304 | 360 | 379 | 409 | 434 | 482 | 534 | | |
| L | 386 | 400 | 451 | 491 | 510 | 540 | 555 | 603 | 625 | | |
| L1 | 434 | 450 | 505 | 561 | 580 | 610 | 635 | 683 | 735 | | |

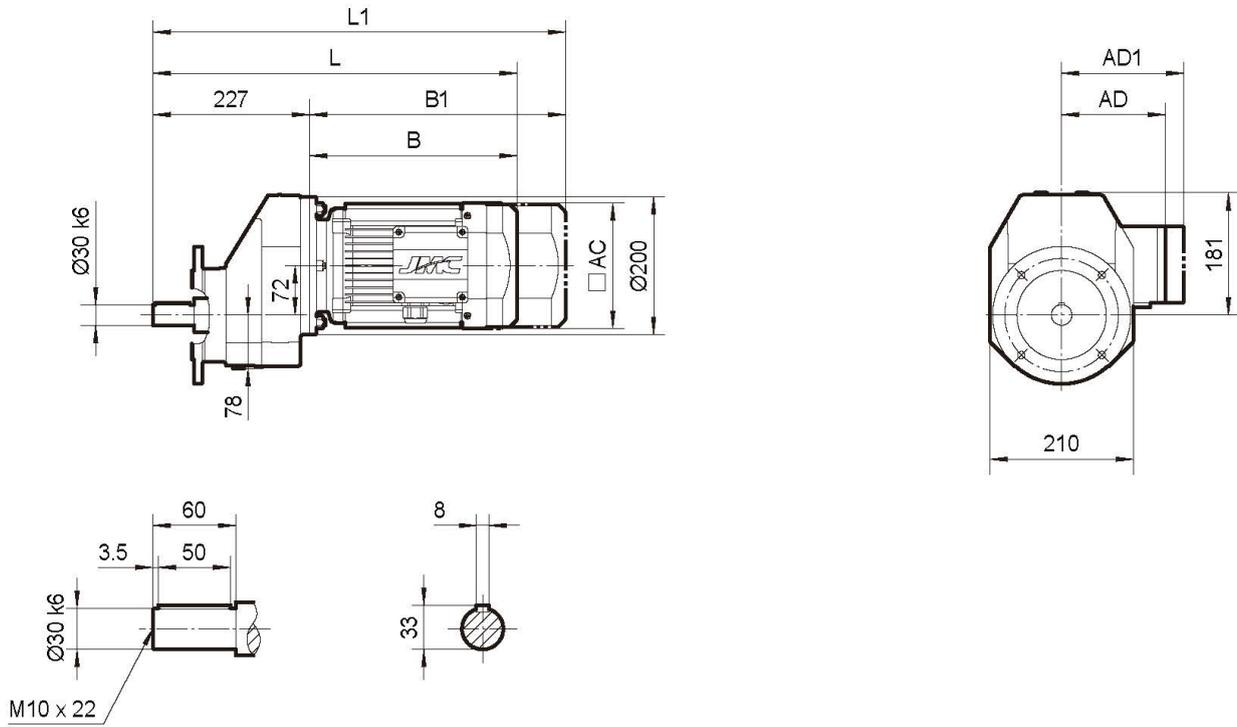
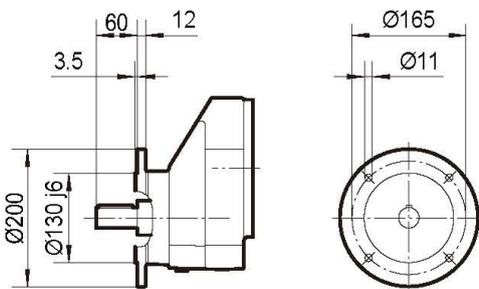
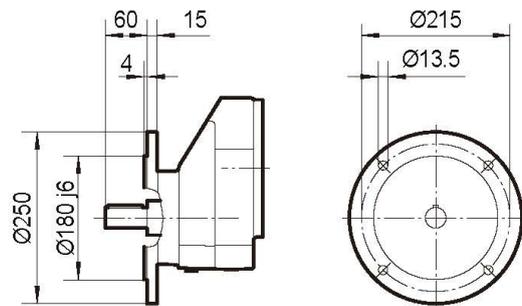
TRXF68..

I
Ø160
II
Ø200
III
Ø250


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | | |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--|--|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | 206 | 206 | 252 | | |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | 178 | 178 | 227 | | |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | 178 | 178 | 227 | | |
| B | 185 | 199 | 250 | 290 | 309 | 339 | 354 | 402 | 424 | | |
| B1 | 233 | 249 | 304 | 360 | 379 | 409 | 434 | 482 | 534 | | |
| L | 386 | 400 | 451 | 491 | 510 | 540 | 555 | 603 | 625 | | |
| L1 | 434 | 450 | 505 | 561 | 580 | 610 | 635 | 683 | 735 | | |

TRX78..

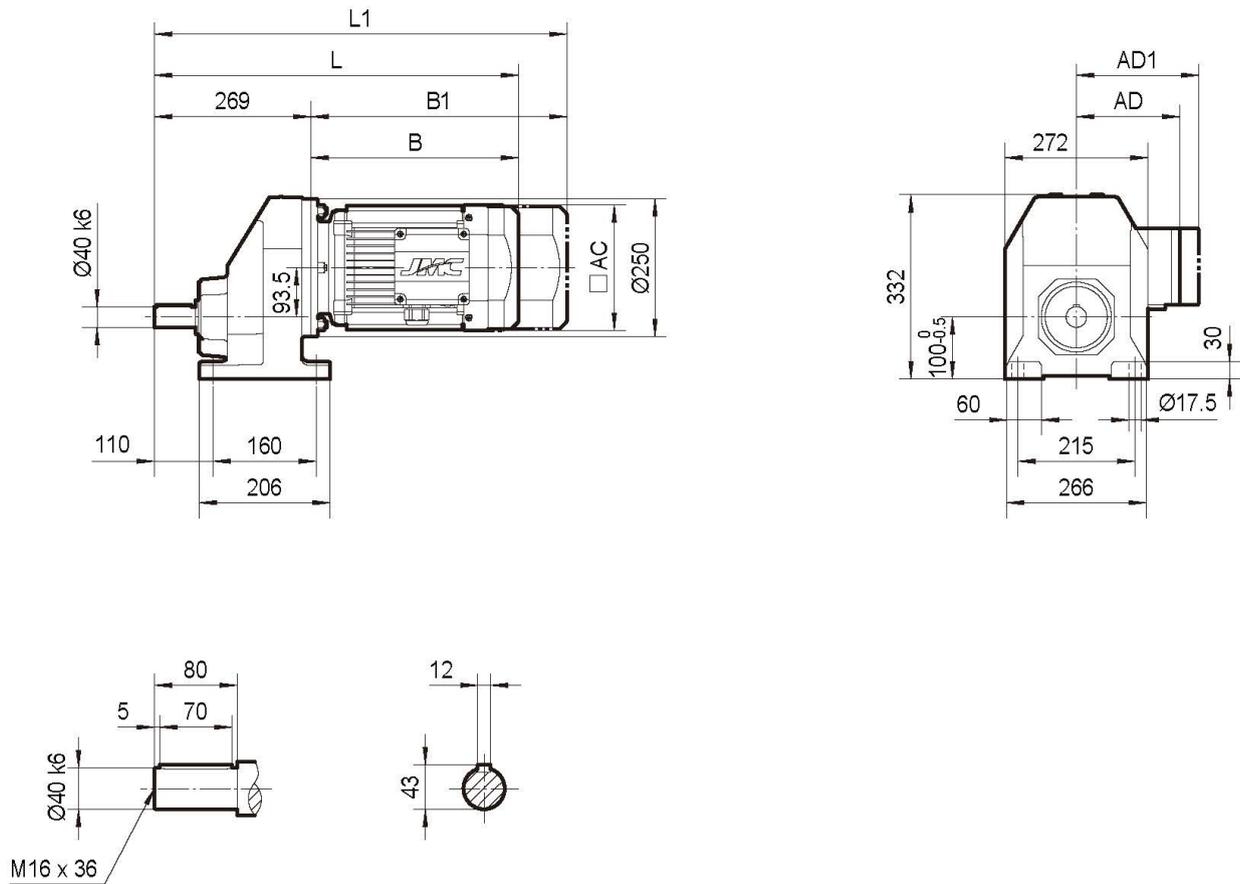


| | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | | | |
|------------|--------|--------|--------|--------|--------|--------|---------|--------|--|--|--|
| AC | 158 | 182 | 182 | 206 | 206 | 252 | 252 | 252 | | | |
| AD | 137 | 165 | 165 | 178 | 178 | 227 | 227 | 227 | | | |
| AD1 | 142 | 165 | 165 | 178 | 178 | 227 | 227 | 227 | | | |
| B | 282 | 301 | 331 | 345 | 390 | 412 | 472 | 472 | | | |
| B1 | 352 | 371 | 401 | 425 | 470 | 522 | 582 | 582 | | | |
| L | 509 | 528 | 558 | 572 | 617 | 639 | 699 | 699 | | | |
| L1 | 579 | 598 | 628 | 652 | 697 | 749 | 809 | 809 | | | |

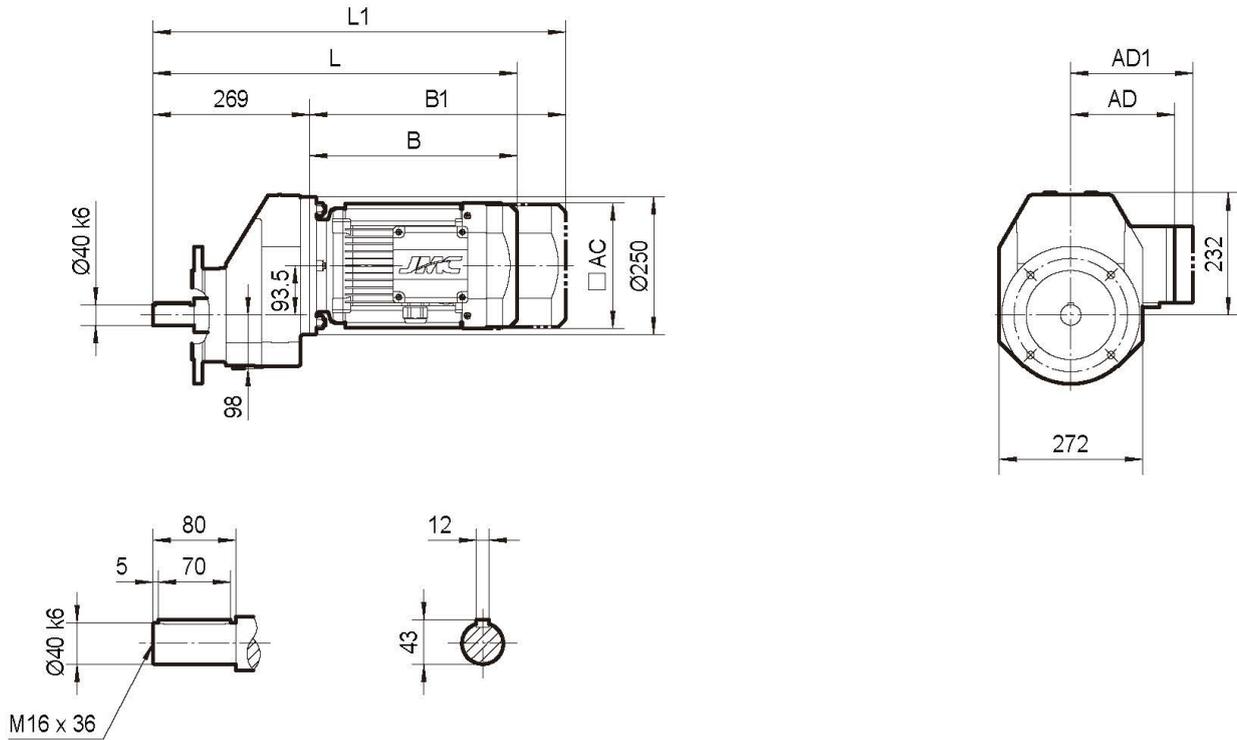
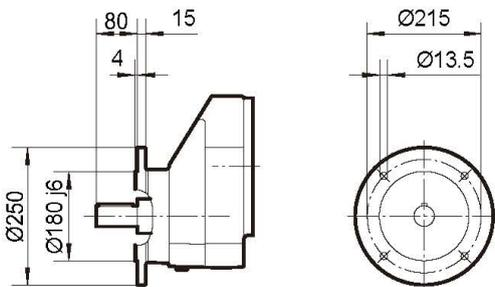
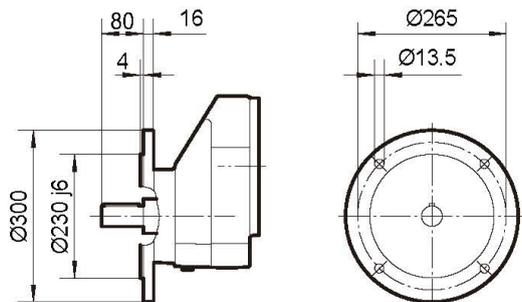
TRXF78..

I
Ø200

II
Ø250


| | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | | | |
|------------|--------|--------|--------|--------|--------|--------|---------|--------|--|--|--|
| AC | 158 | 182 | 182 | 206 | 206 | 252 | 252 | 252 | | | |
| AD | 137 | 165 | 165 | 178 | 178 | 227 | 227 | 227 | | | |
| AD1 | 142 | 165 | 165 | 178 | 178 | 227 | 227 | 227 | | | |
| B | 282 | 301 | 331 | 345 | 390 | 412 | 472 | 472 | | | |
| B1 | 352 | 371 | 401 | 425 | 470 | 522 | 582 | 582 | | | |
| L | 509 | 528 | 558 | 572 | 617 | 639 | 699 | 699 | | | |
| L1 | 579 | 598 | 628 | 652 | 697 | 749 | 809 | 809 | | | |

TRX88..

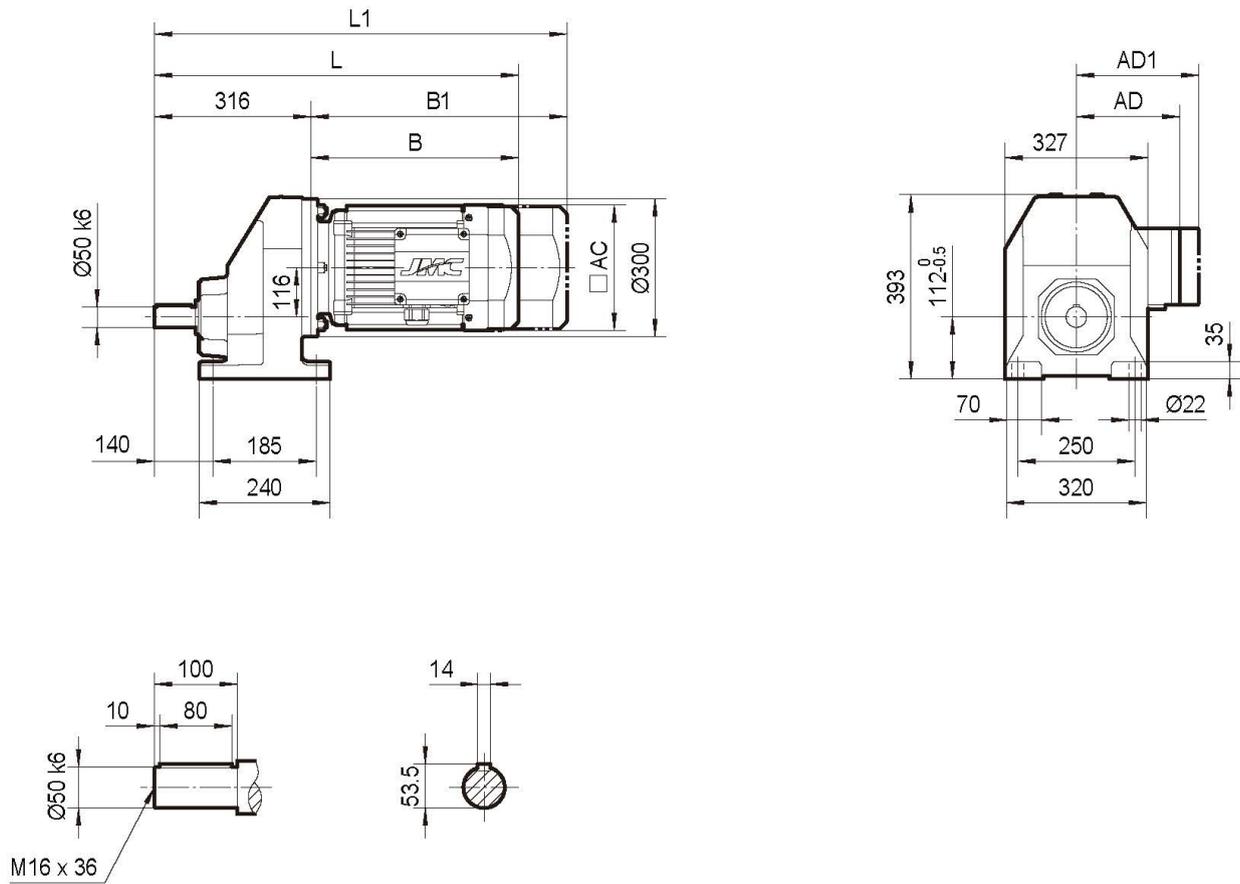


| | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | | | |
|------------|--------|--------|--------|--------|---------|--------|--------|---------|--|--|--|
| AC | 182 | 206 | 206 | 252 | 252 | 252 | 310 | 310 | | | |
| AD | 165 | 178 | 178 | 227 | 227 | 227 | 252 | 252 | | | |
| AD1 | 165 | 178 | 178 | 227 | 227 | 227 | 252 | 252 | | | |
| B | 327 | 340 | 385 | 407 | 467 | 467 | 534 | 594 | | | |
| B1 | 397 | 420 | 465 | 517 | 577 | 577 | 664 | 724 | | | |
| L | 596 | 609 | 654 | 676 | 736 | 736 | 803 | 863 | | | |
| L1 | 666 | 689 | 734 | 786 | 846 | 846 | 933 | 993 | | | |

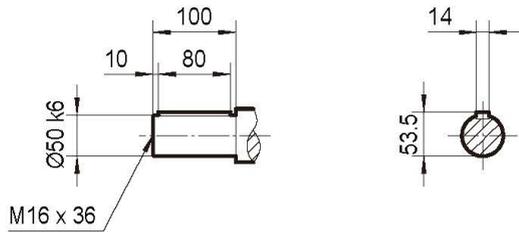
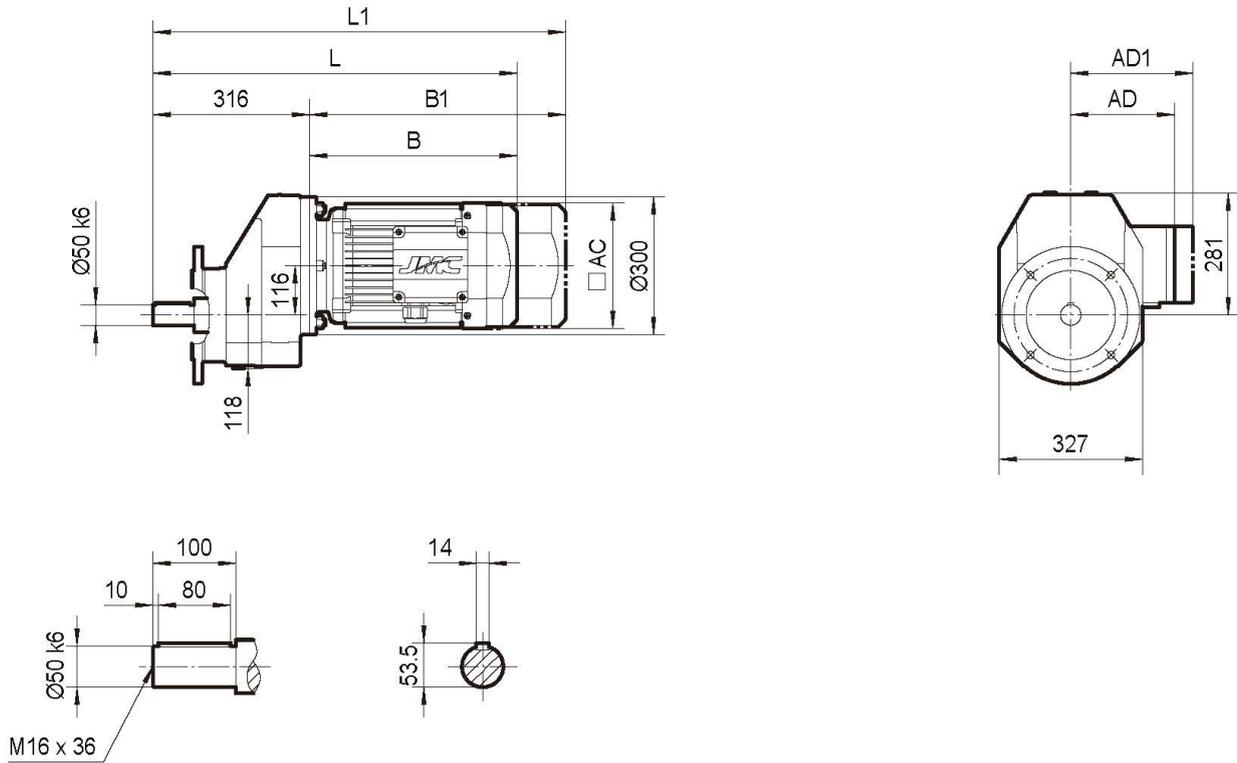
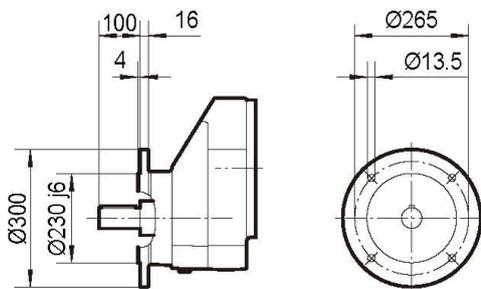
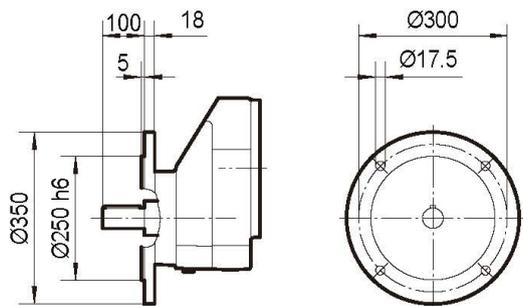
TRXF88..

I
Ø250

II
Ø300


| | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | | | |
|------------|--------|--------|--------|--------|---------|--------|--------|---------|--|--|--|
| AC | 182 | 206 | 206 | 252 | 252 | 252 | 310 | 310 | | | |
| AD | 165 | 178 | 178 | 227 | 227 | 227 | 252 | 252 | | | |
| AD1 | 165 | 178 | 178 | 227 | 227 | 227 | 252 | 252 | | | |
| B | 327 | 340 | 385 | 407 | 467 | 467 | 534 | 594 | | | |
| B1 | 397 | 420 | 465 | 517 | 577 | 577 | 664 | 724 | | | |
| L | 596 | 609 | 654 | 676 | 736 | 736 | 803 | 863 | | | |
| L1 | 666 | 689 | 734 | 786 | 846 | 846 | 933 | 993 | | | |

TRX98..

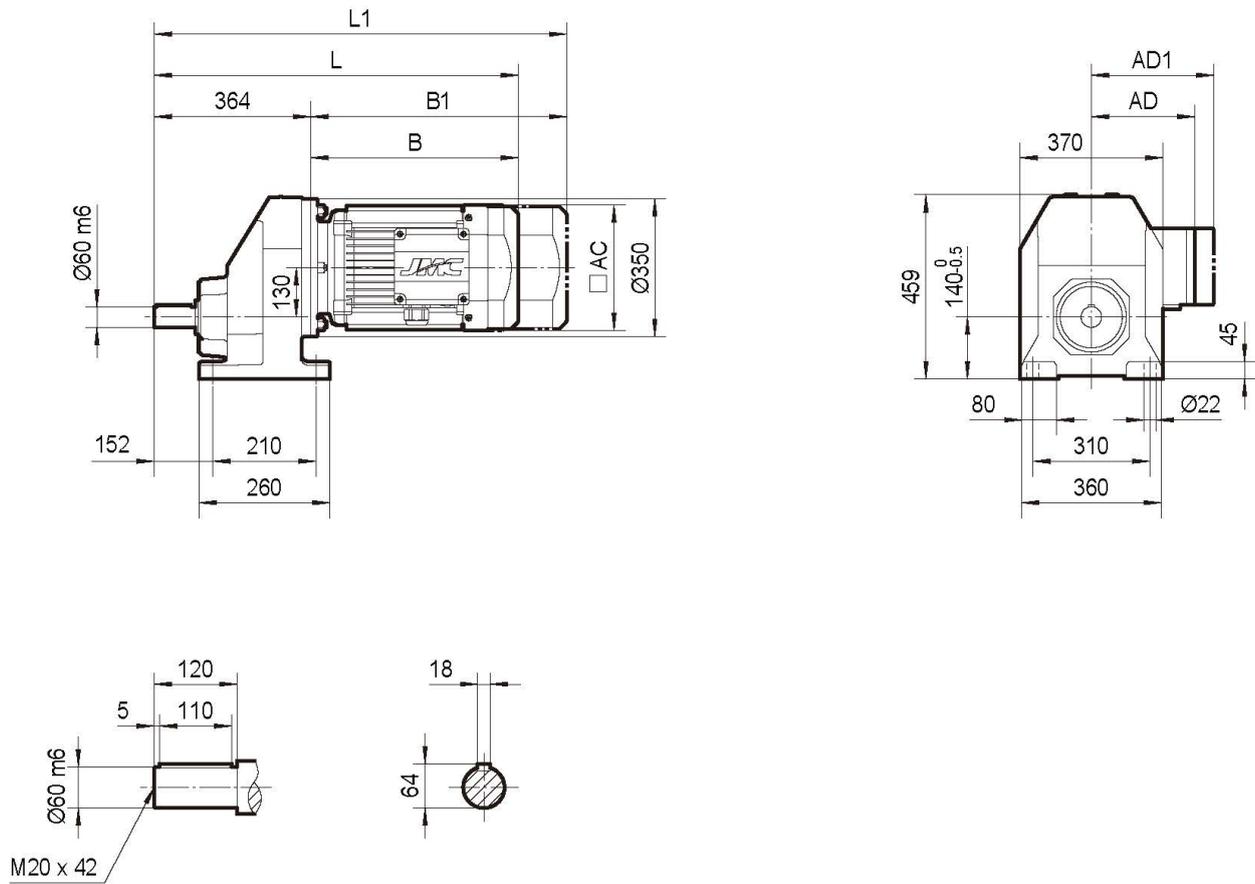


| | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. | | | | |
|------------|--------|--------|---------|--------|--------|---------|---------|--|--|--|--|
| AC | 206 | 252 | 252 | 252 | 310 | 310 | 394 | | | | |
| AD | 178 | 227 | 227 | 227 | 252 | 252 | 285 | | | | |
| AD1 | 178 | 227 | 227 | 227 | 252 | 252 | 285 | | | | |
| B | 380 | 402 | 462 | 462 | 529 | 589 | 629 | | | | |
| B1 | 460 | 512 | 572 | 572 | 659 | 719 | 785 | | | | |
| L | 696 | 718 | 778 | 778 | 845 | 905 | 945 | | | | |
| L1 | 776 | 828 | 888 | 888 | 975 | 1035 | 1101 | | | | |

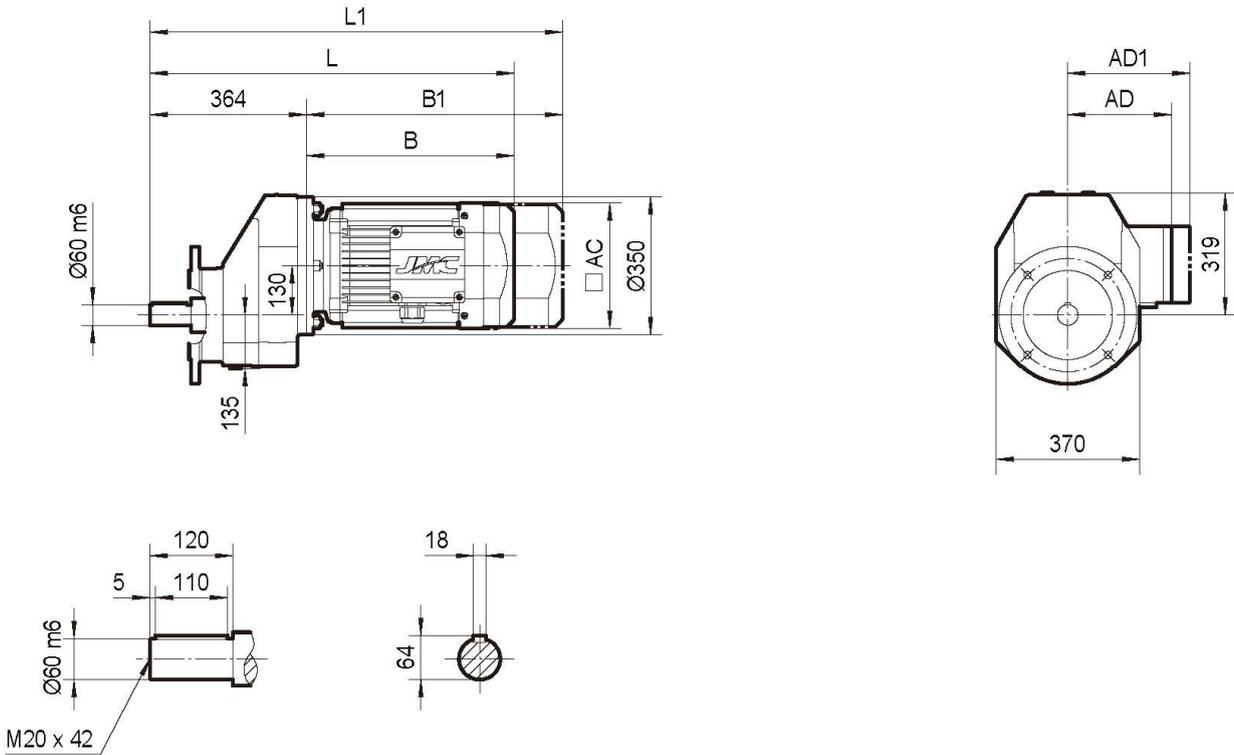
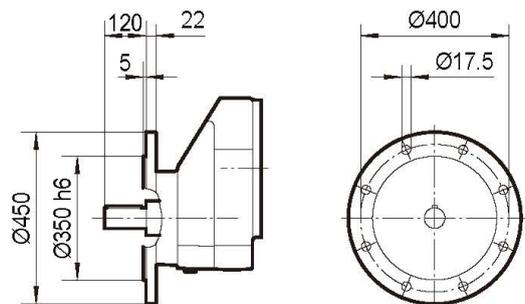
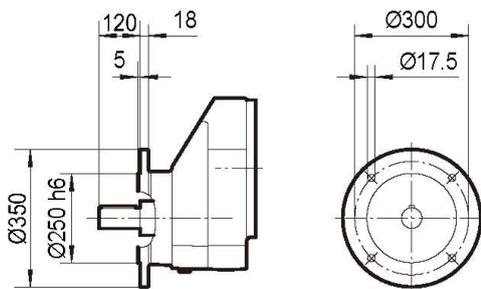
TRXF98..

I
Ø300

II
Ø350


| | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. | | | |
|------------|--------|--------|---------|--------|--------|---------|---------|--|--|--|
| AC | 206 | 252 | 252 | 252 | 310 | 310 | 394 | | | |
| AD | 178 | 227 | 227 | 227 | 252 | 252 | 285 | | | |
| AD1 | 178 | 227 | 227 | 227 | 252 | 252 | 285 | | | |
| B | 380 | 402 | 462 | 462 | 529 | 589 | 629 | | | |
| B1 | 460 | 512 | 572 | 572 | 659 | 719 | 785 | | | |
| L | 696 | 718 | 778 | 778 | 845 | 905 | 945 | | | |
| L1 | 776 | 828 | 888 | 888 | 975 | 1035 | 1101 | | | |

TRX108..

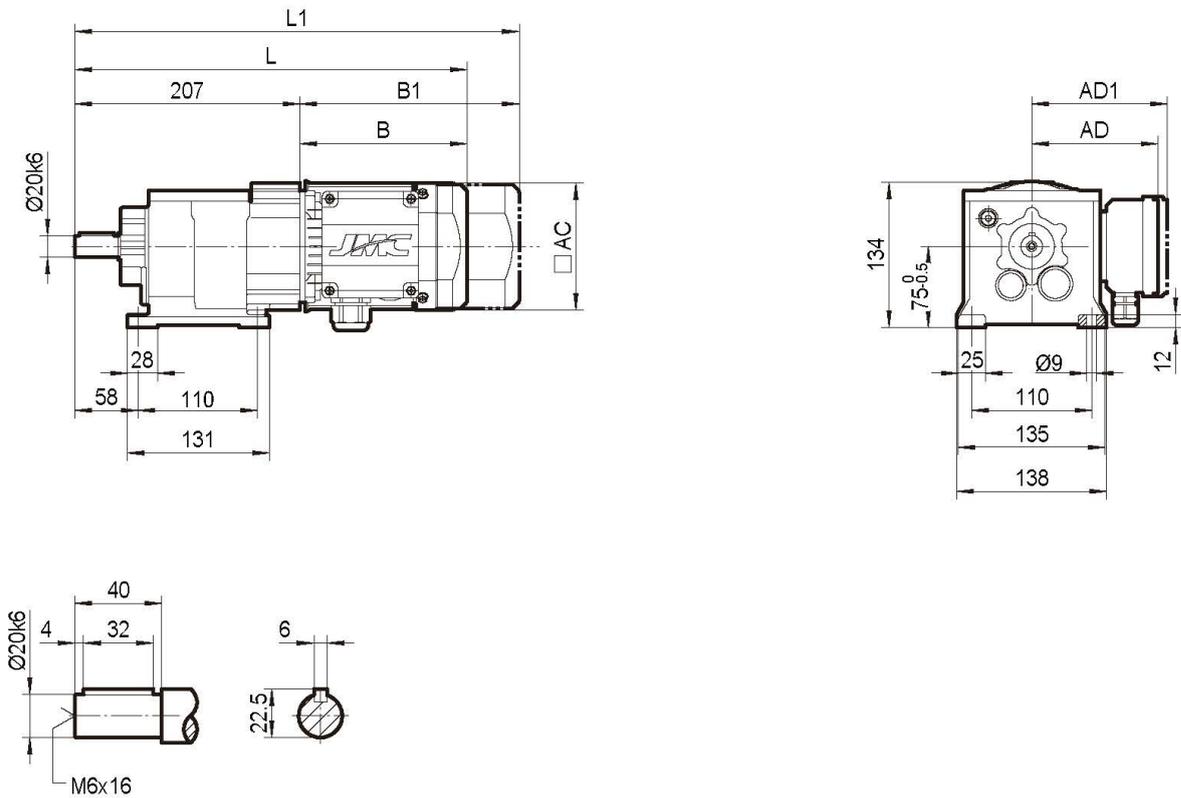


| | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. | MY225.. | | | |
|------------|--------|--------|---------|--------|--------|---------|---------|---------|--|--|--|
| AC | 206 | 252 | 252 | 252 | 310 | 310 | 394 | 394 | | | |
| AD | 178 | 227 | 227 | 227 | 252 | 252 | 285 | 289 | | | |
| AD1 | 178 | 227 | 227 | 227 | 252 | 252 | 285 | 289 | | | |
| B | 374 | 396 | 456 | 456 | 523 | 583 | 623 | 705 | | | |
| B1 | 454 | 506 | 566 | 566 | 653 | 713 | 779 | 861 | | | |
| L | 738 | 760 | 820 | 820 | 887 | 947 | 987 | 1069 | | | |
| L1 | 818 | 870 | 930 | 930 | 1017 | 1077 | 1143 | 1225 | | | |

TRXF108..

I
Ø350
II
Ø450


| | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. | MY225.. | | | |
|------------|--------|--------|---------|--------|--------|---------|---------|---------|--|--|--|
| AC | 206 | 252 | 252 | 252 | 310 | 310 | 394 | 394 | | | |
| AD | 178 | 227 | 227 | 227 | 252 | 252 | 285 | 289 | | | |
| AD1 | 178 | 227 | 227 | 227 | 252 | 252 | 285 | 289 | | | |
| B | 374 | 396 | 456 | 456 | 523 | 583 | 623 | 705 | | | |
| B1 | 454 | 506 | 566 | 566 | 653 | 713 | 779 | 861 | | | |
| L | 738 | 760 | 820 | 820 | 887 | 947 | 987 | 1069 | | | |
| L1 | 818 | 870 | 930 | 930 | 1017 | 1077 | 1143 | 1225 | | | |

TR18..

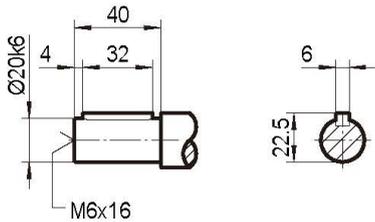
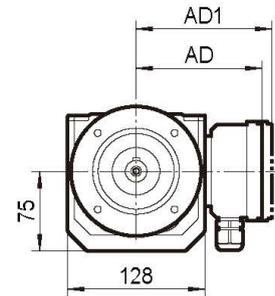
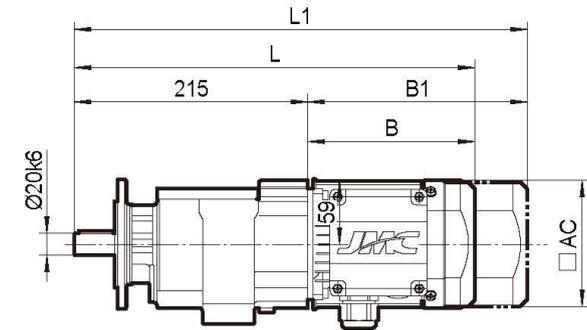


TR18F..



| | MY63.. | MY71D | MY80.. | | | | | | | |
|-----|--------|-------|--------|--|--|--|--|--|--|--|
| AC | 118 | 134 | 142 | | | | | | | |
| AD | 110 | 122 | 129 | | | | | | | |
| AD1 | 115 | 127 | 134 | | | | | | | |
| B | 149 | 164 | 205 | | | | | | | |
| B1 | 197 | 214 | 259 | | | | | | | |
| L | 356 | 371 | 412 | | | | | | | |
| L1 | 404 | 421 | 466 | | | | | | | |

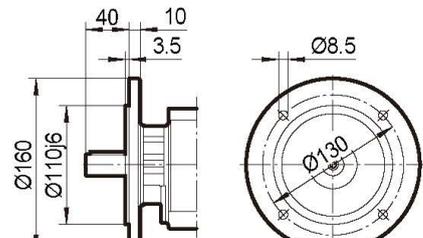
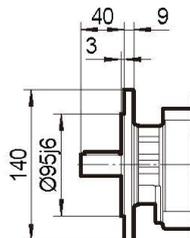
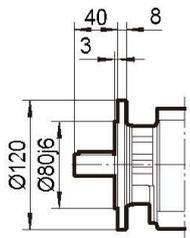
TRF18..



I
Ø120

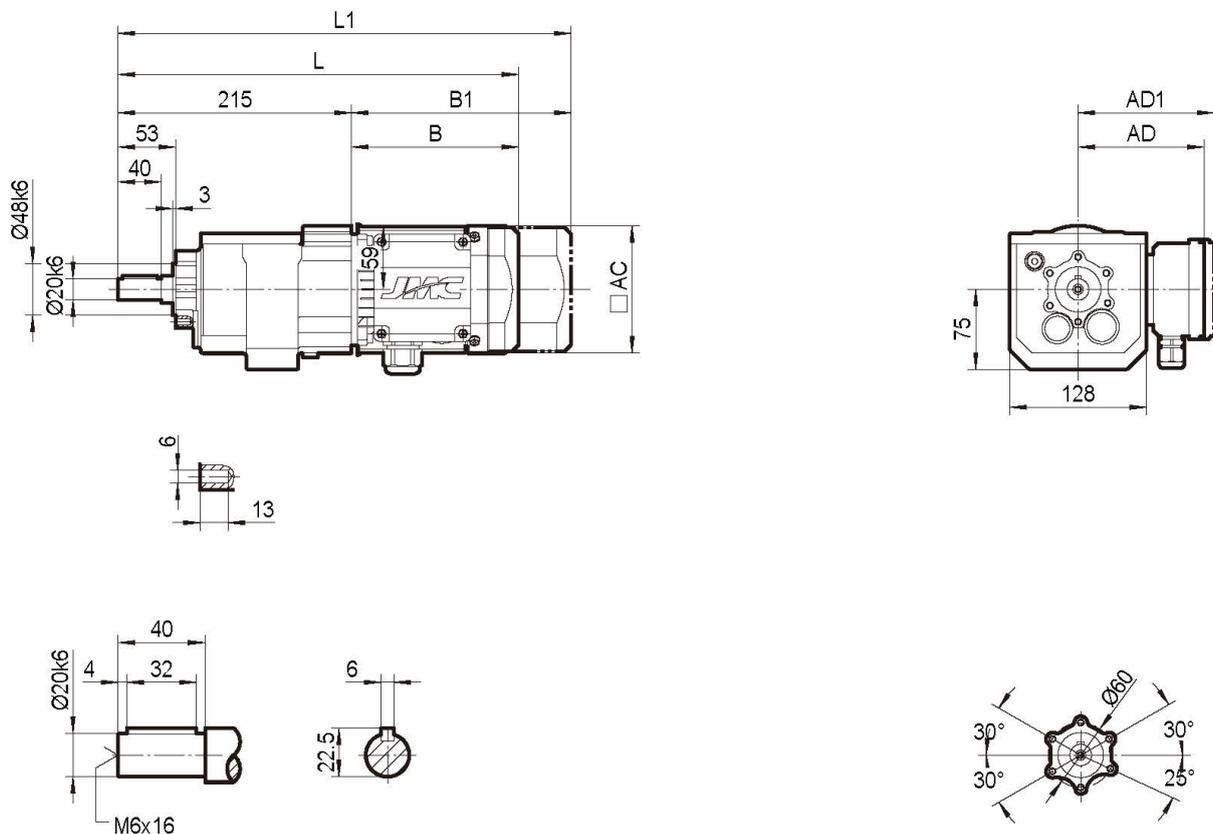
I
Ø140

II
Ø160

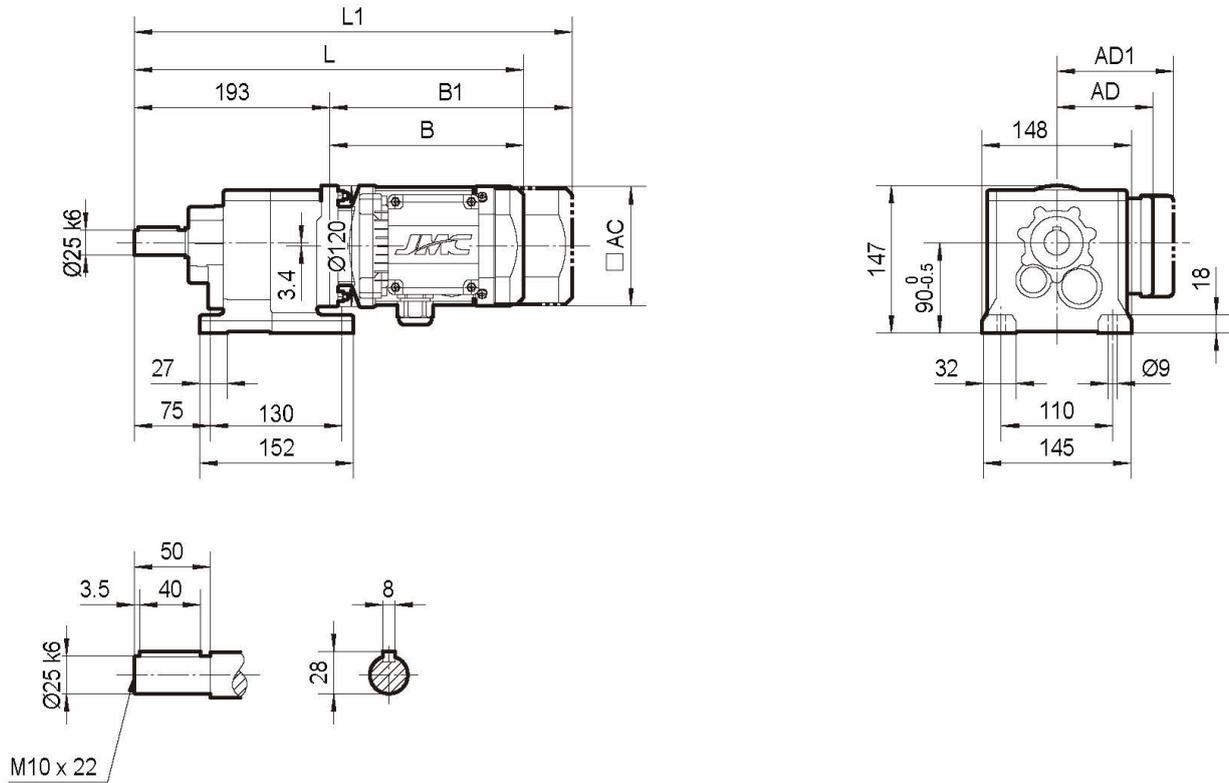


| | MY63.. | MY71D | MY80.. | | | | | | |
|------------|--------|-------|--------|--|--|--|--|--|--|
| AC | 118 | 134 | 142 | | | | | | |
| AD | 110 | 122 | 129 | | | | | | |
| AD1 | 115 | 127 | 134 | | | | | | |
| B | 149 | 164 | 205 | | | | | | |
| B1 | 197 | 214 | 259 | | | | | | |
| L | 364 | 379 | 420 | | | | | | |
| L1 | 412 | 429 | 474 | | | | | | |

TRZ18..

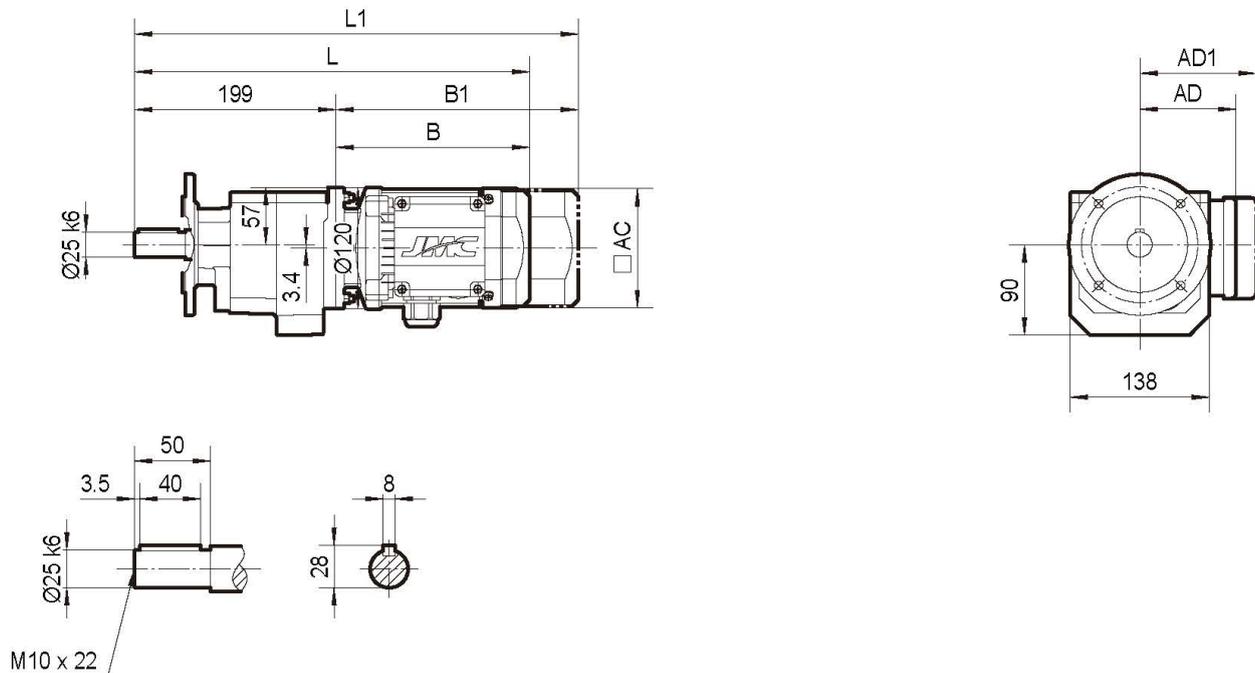


| | MY63.. | MY71D | MY80.. | | | | | | | |
|------------|--------|-------|--------|--|--|--|--|--|--|--|
| AC | 118 | 134 | 142 | | | | | | | |
| AD | 110 | 122 | 129 | | | | | | | |
| AD1 | 115 | 127 | 134 | | | | | | | |
| B | 149 | 164 | 205 | | | | | | | |
| B1 | 197 | 214 | 259 | | | | | | | |
| L | 364 | 379 | 420 | | | | | | | |
| L1 | 412 | 429 | 474 | | | | | | | |

TR28..

TR28F..


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | | | | |
|------------|--------|-------|--------|--------|--------|--------|--|--|--|--|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | | | | |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | | | | |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | | | | |
| B | 192 | 206 | 257 | 296 | 318 | 348 | | | | |
| B1 | 240 | 256 | 311 | 366 | 388 | 418 | | | | |
| L | 385 | 399 | 450 | 489 | 511 | 541 | | | | |
| L1 | 433 | 449 | 504 | 559 | 581 | 611 | | | | |

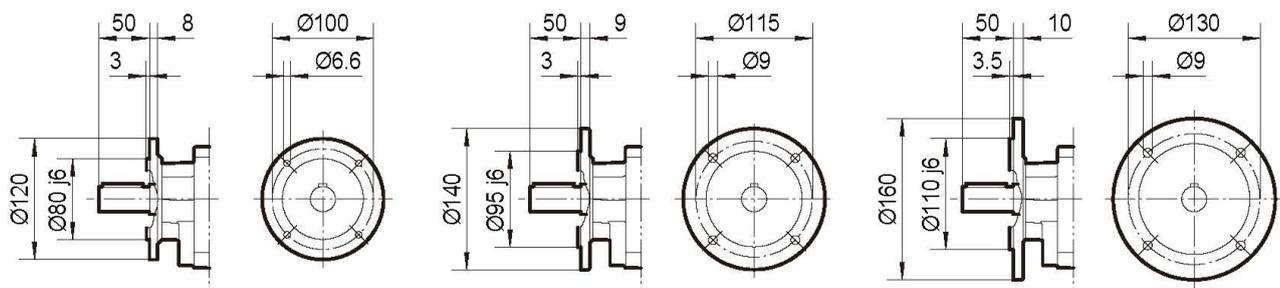
TRF28..



I
Ø120

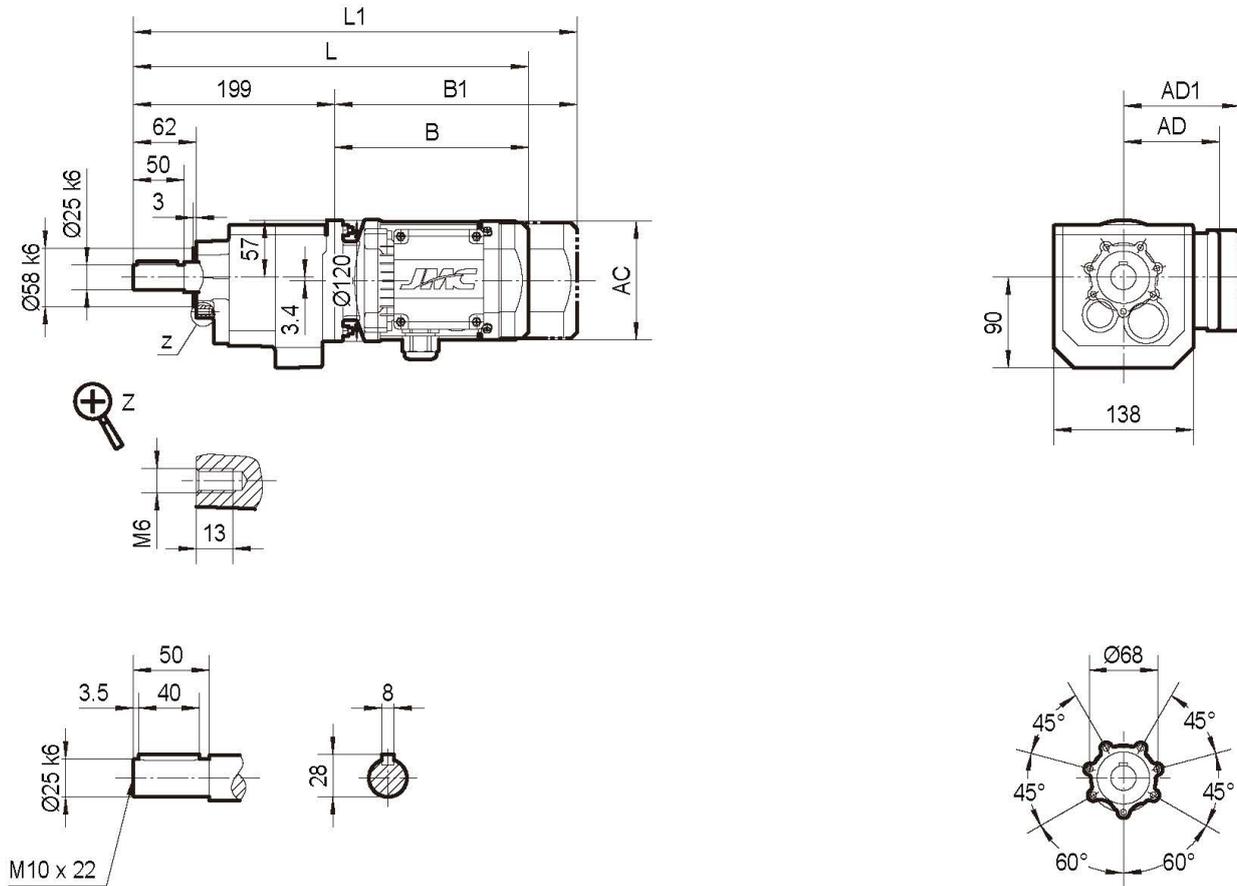
II
Ø140

III
Ø160



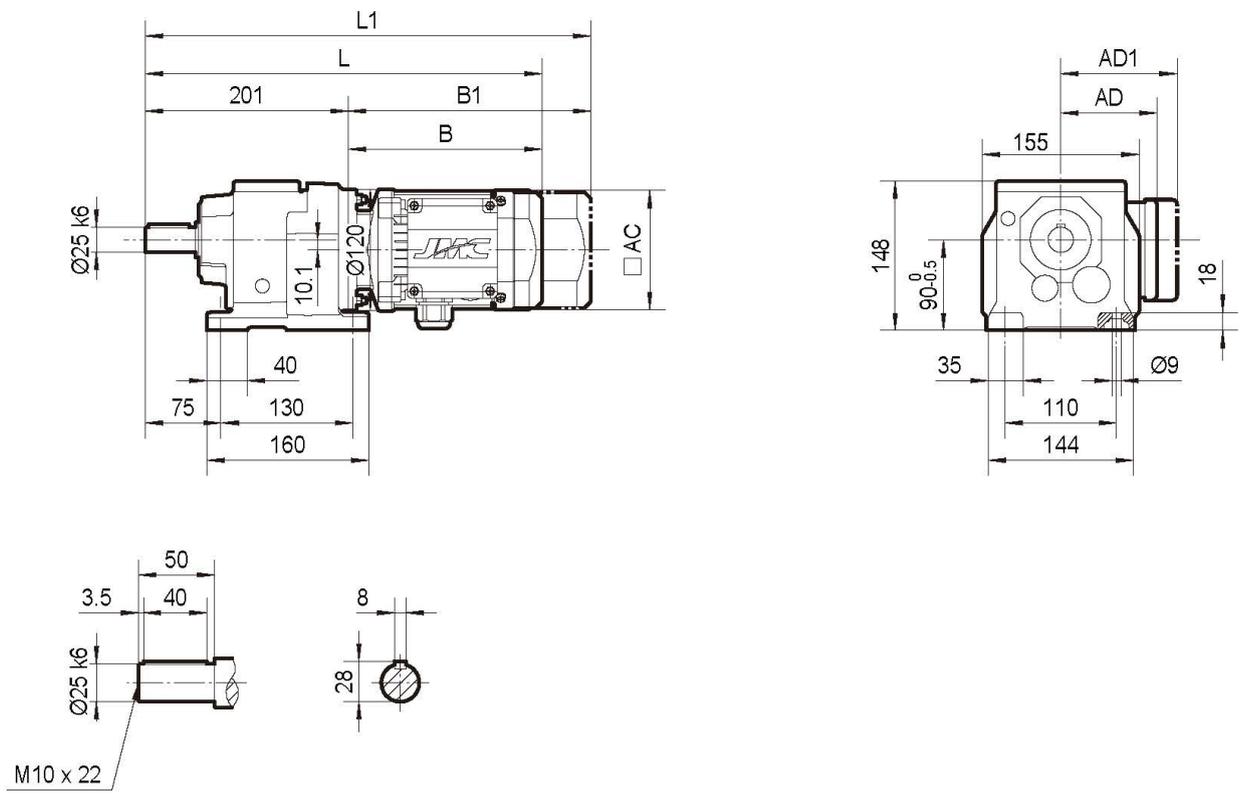
| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | | | | |
|------------|--------|-------|--------|--------|--------|--------|--|--|--|--|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | | | | |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | | | | |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | | | | |
| B | 192 | 206 | 257 | 296 | 318 | 348 | | | | |
| B1 | 240 | 256 | 311 | 366 | 388 | 418 | | | | |
| L | 391 | 405 | 456 | 495 | 517 | 547 | | | | |
| L1 | 439 | 455 | 510 | 565 | 587 | 617 | | | | |

TRZ28..



| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | | | | |
|------------|--------|-------|--------|--------|--------|--------|--|--|--|--|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | | | | |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | | | | |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | | | | |
| B | 192 | 206 | 257 | 296 | 318 | 348 | | | | |
| B1 | 240 | 256 | 311 | 366 | 388 | 418 | | | | |
| L | 391 | 405 | 456 | 495 | 517 | 547 | | | | |
| L1 | 439 | 455 | 510 | 565 | 587 | 617 | | | | |

TR38..

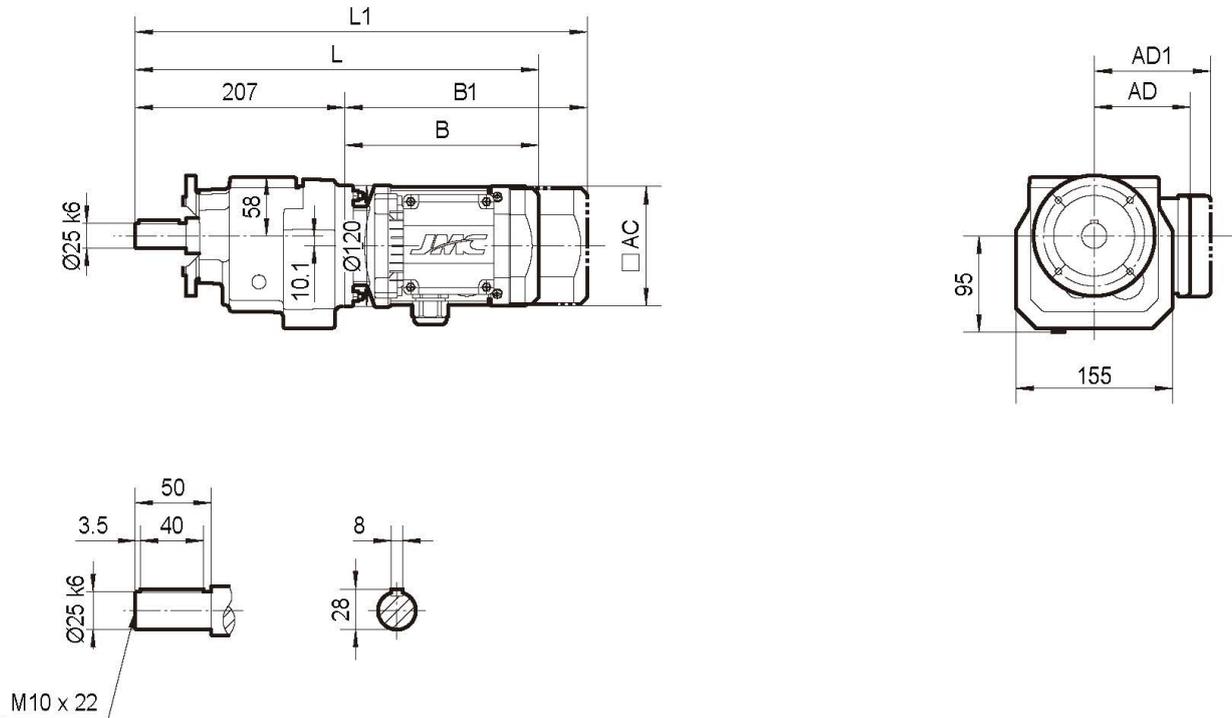


TR38F..



| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | | | | |
|------------|--------|-------|--------|--------|--------|--------|--|--|--|--|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | | | | |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | | | | |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | | | | |
| B | 192 | 206 | 257 | 296 | 318 | 348 | | | | |
| B1 | 240 | 256 | 311 | 366 | 388 | 418 | | | | |
| L | 393 | 407 | 458 | 497 | 519 | 549 | | | | |
| L1 | 441 | 457 | 512 | 567 | 589 | 619 | | | | |

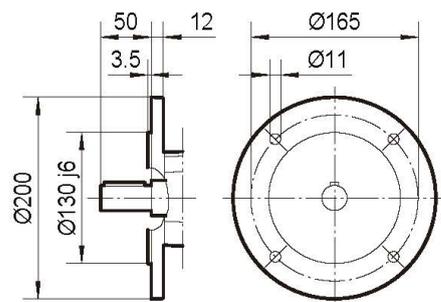
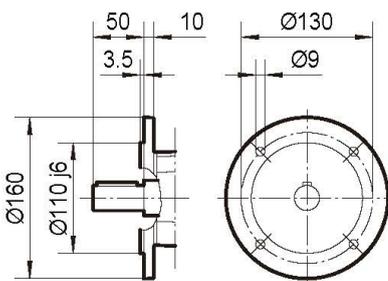
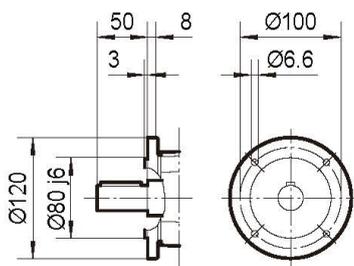
TRF38..



I
Ø120

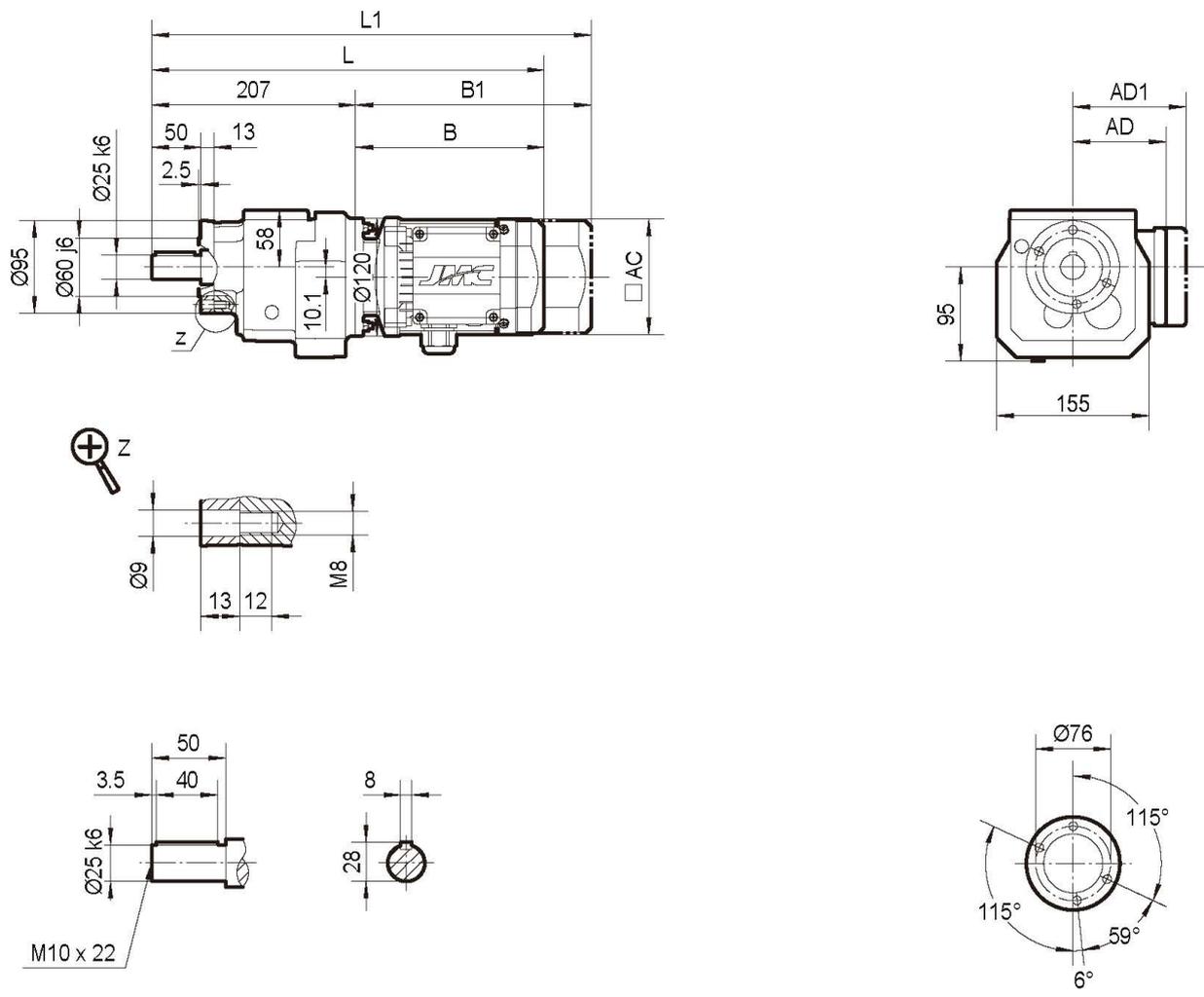
II
Ø160

III
Ø200

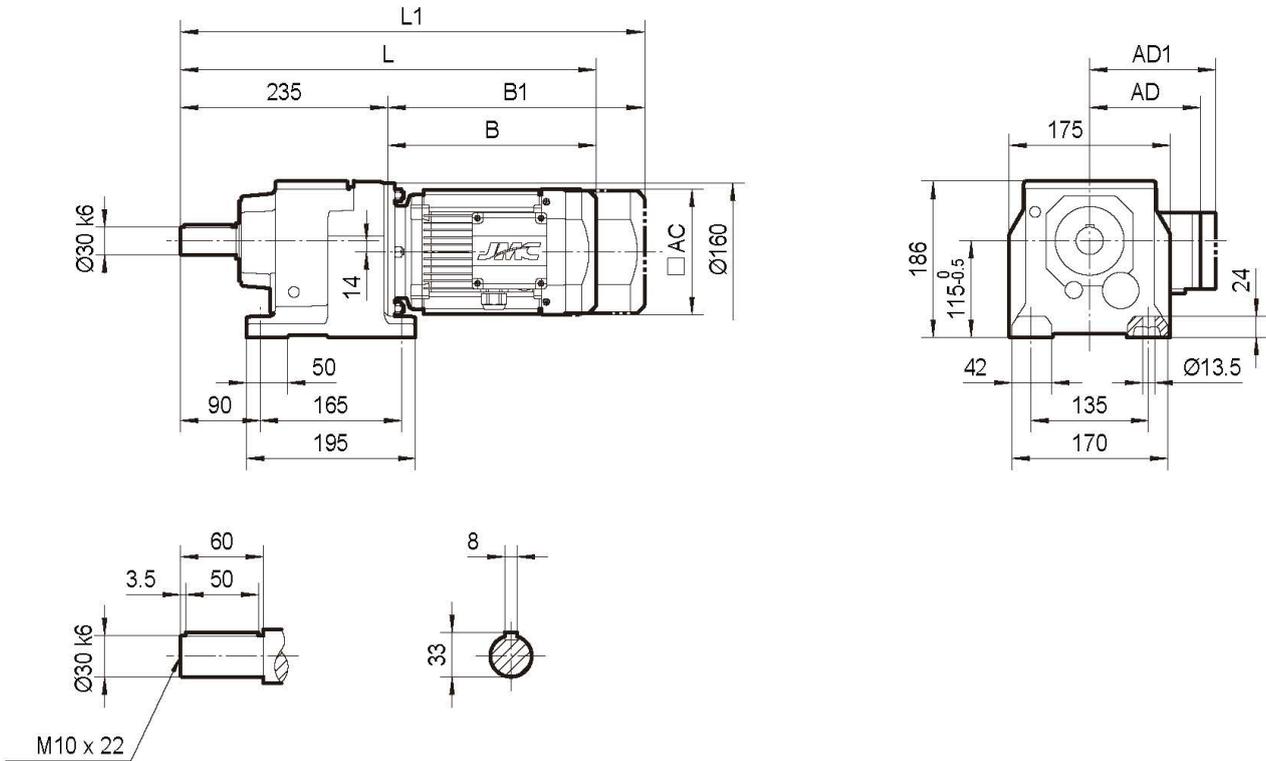


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | | | | |
|------------|--------|-------|--------|--------|--------|--------|--|--|--|--|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | | | | |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | | | | |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | | | | |
| B | 192 | 206 | 257 | 296 | 318 | 348 | | | | |
| B1 | 240 | 256 | 311 | 366 | 388 | 418 | | | | |
| L | 399 | 413 | 464 | 503 | 525 | 555 | | | | |
| L1 | 447 | 463 | 518 | 573 | 595 | 625 | | | | |

TRZ38..

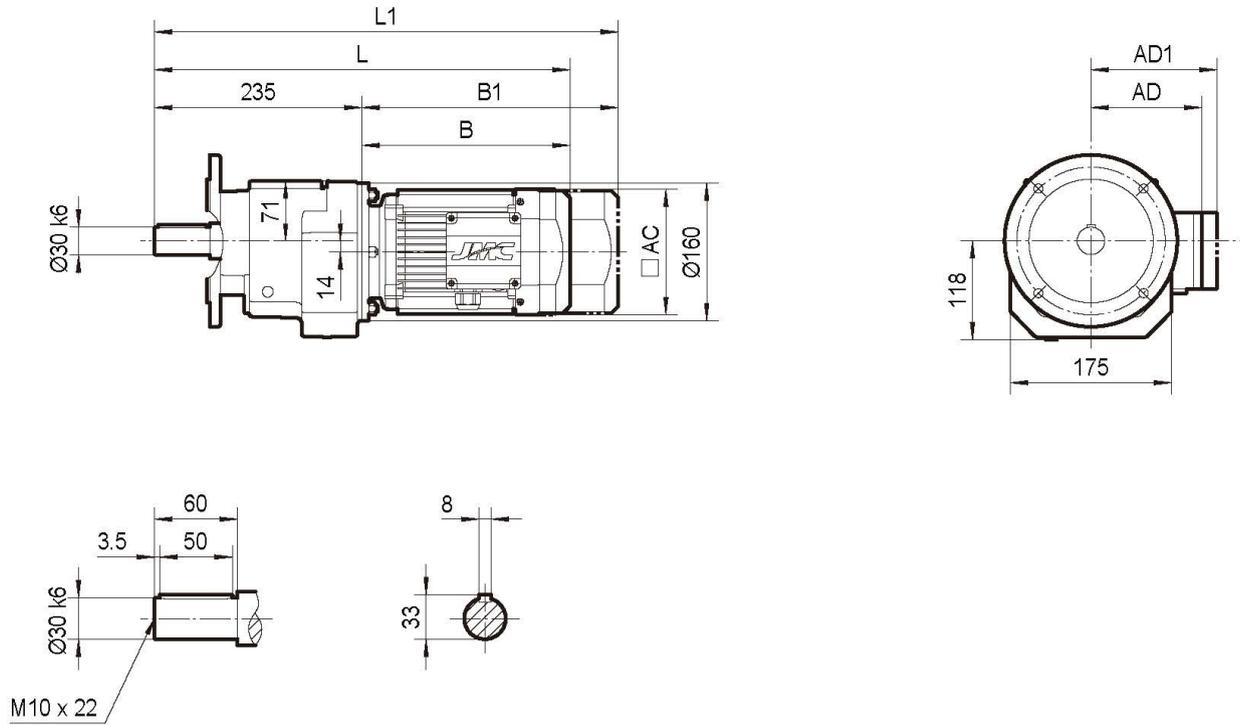


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | | | | |
|------------|--------|-------|--------|--------|--------|--------|--|--|--|--|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | | | | |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | | | | |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | | | | |
| B | 192 | 206 | 257 | 296 | 318 | 348 | | | | |
| B1 | 240 | 256 | 311 | 366 | 388 | 418 | | | | |
| L | 399 | 413 | 464 | 503 | 525 | 555 | | | | |
| L1 | 447 | 463 | 518 | 573 | 595 | 625 | | | | |

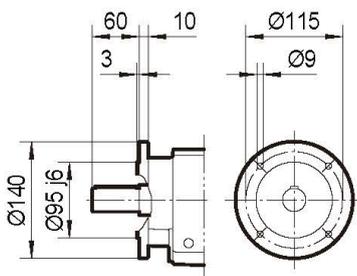
TR48..

TR48F..


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | | | |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--|--|--|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | 206 | 206 | | | |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | 178 | 178 | | | |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | 178 | 178 | | | |
| B | 185 | 199 | 250 | 290 | 309 | 339 | 354 | 402 | | | |
| B1 | 233 | 249 | 304 | 360 | 379 | 409 | 434 | 482 | | | |
| L | 420 | 434 | 485 | 525 | 544 | 574 | 589 | 637 | | | |
| L1 | 468 | 484 | 539 | 595 | 614 | 644 | 669 | 717 | | | |

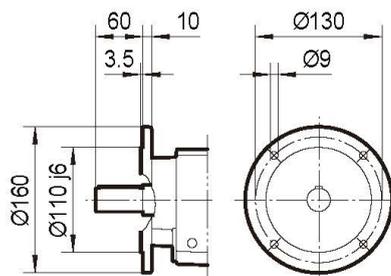
TRF48..



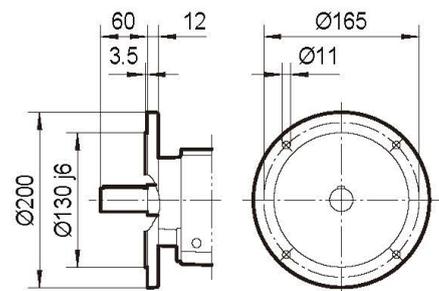
I
Ø140



II
Ø160

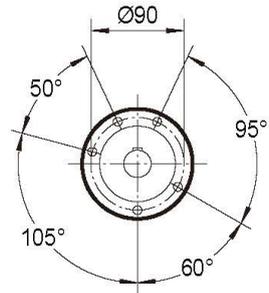
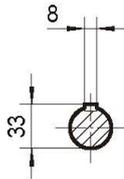
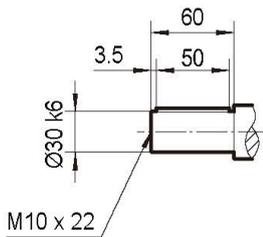
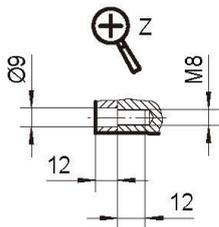
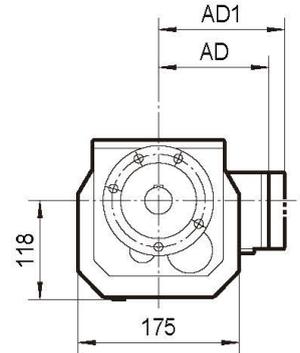
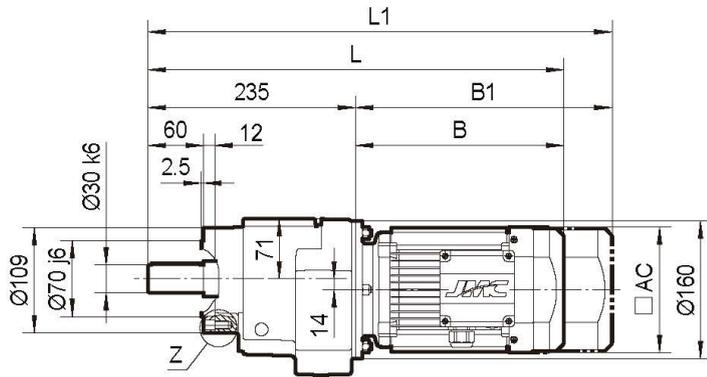


III
Ø200



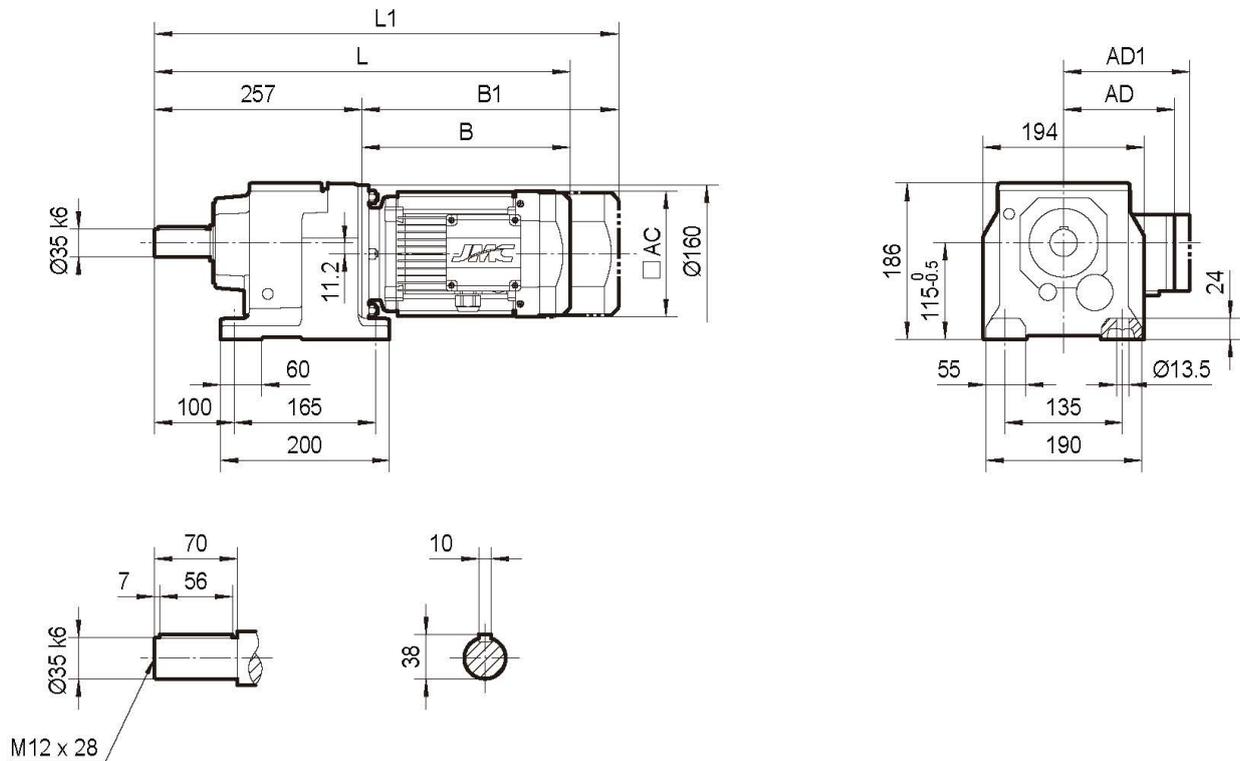
| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | | | |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--|--|--|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | 206 | 206 | | | |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | 178 | 178 | | | |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | 178 | 178 | | | |
| B | 185 | 199 | 250 | 290 | 309 | 339 | 354 | 402 | | | |
| B1 | 233 | 249 | 304 | 360 | 379 | 409 | 434 | 482 | | | |
| L | 420 | 434 | 485 | 525 | 544 | 574 | 589 | 637 | | | |
| L1 | 468 | 484 | 539 | 595 | 614 | 644 | 669 | 717 | | | |

TRZ48..

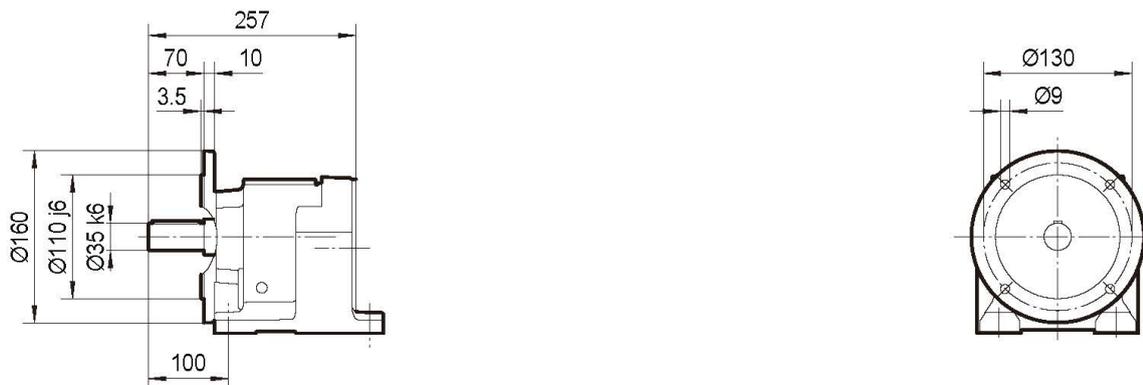


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | | | |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--|--|--|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | 206 | 206 | | | |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | 178 | 178 | | | |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | 178 | 178 | | | |
| B | 185 | 199 | 250 | 290 | 309 | 339 | 354 | 402 | | | |
| B1 | 233 | 249 | 304 | 360 | 379 | 409 | 434 | 482 | | | |
| L | 420 | 434 | 485 | 525 | 544 | 574 | 589 | 637 | | | |
| L1 | 468 | 484 | 539 | 595 | 614 | 644 | 669 | 717 | | | |

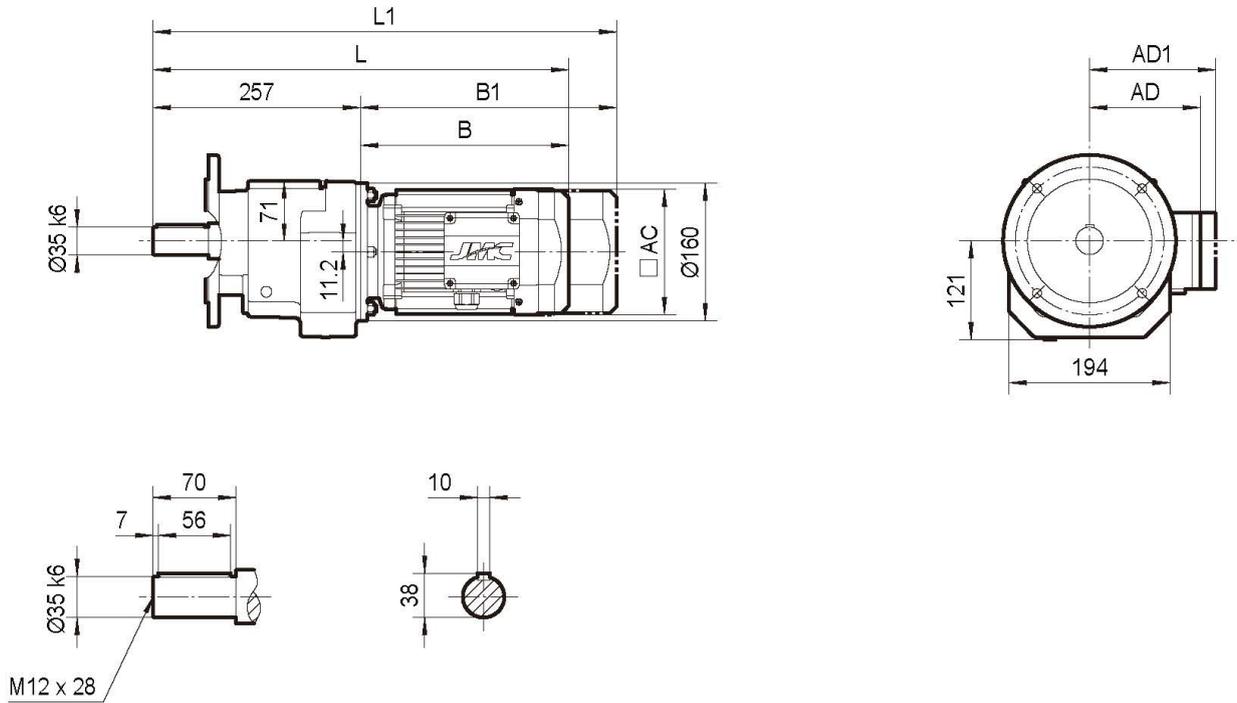
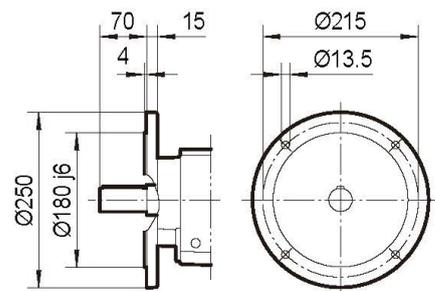
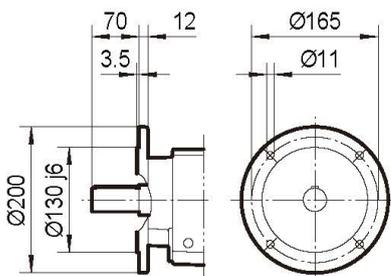
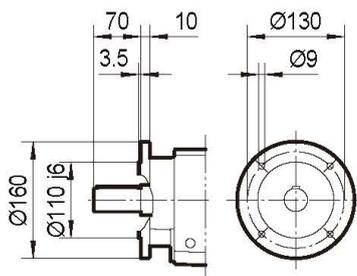
TR58..



TR58F..

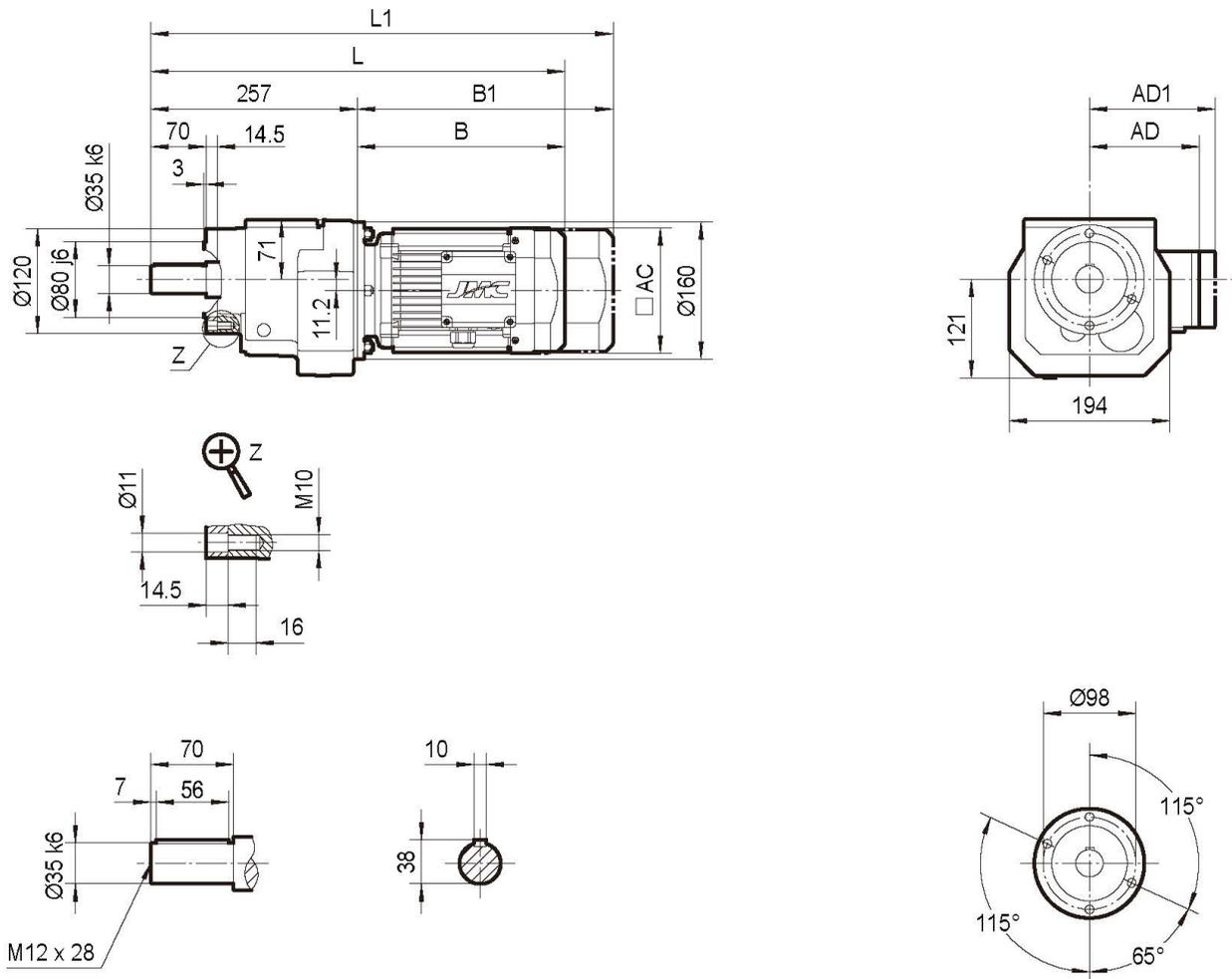


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | | |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--|--|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | 206 | 206 | 252 | | |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | 178 | 178 | 227 | | |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | 178 | 178 | 227 | | |
| B | 185 | 199 | 250 | 290 | 309 | 339 | 354 | 402 | 424 | | |
| B1 | 233 | 249 | 304 | 360 | 379 | 409 | 434 | 482 | 534 | | |
| L | 442 | 456 | 507 | 547 | 566 | 596 | 611 | 659 | 681 | | |
| L1 | 490 | 506 | 561 | 617 | 636 | 666 | 691 | 739 | 791 | | |

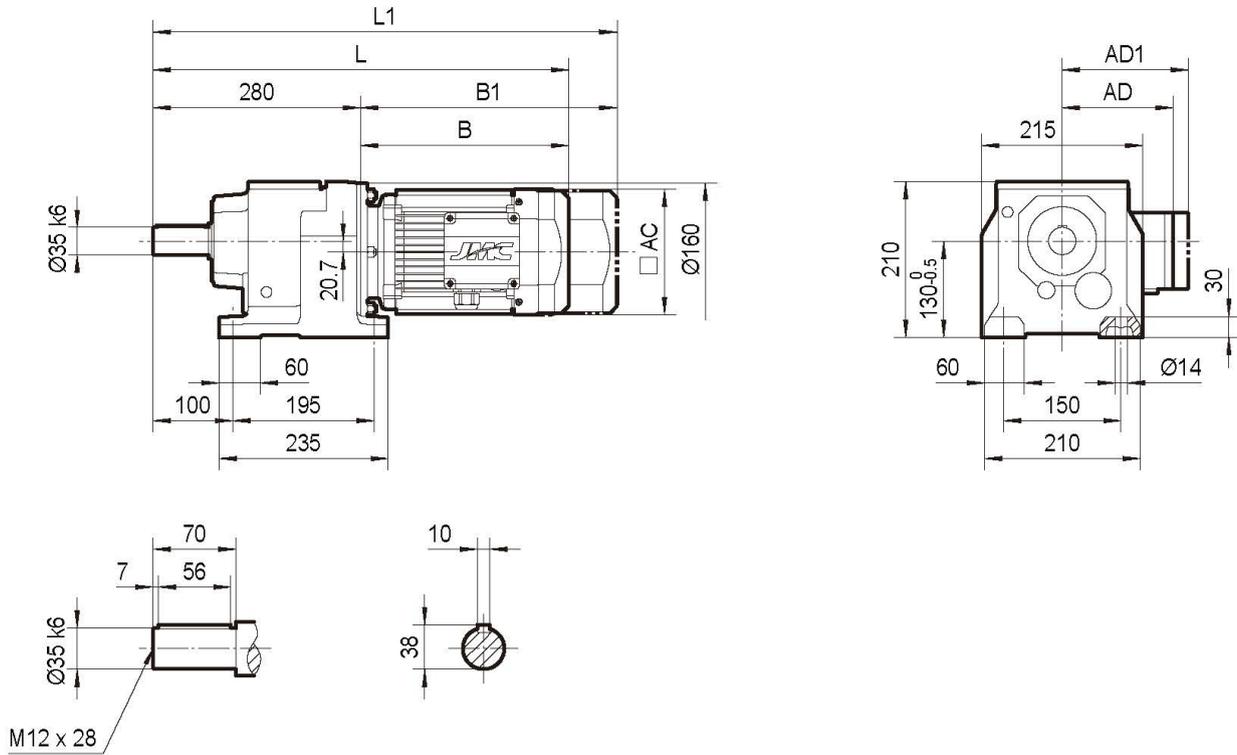
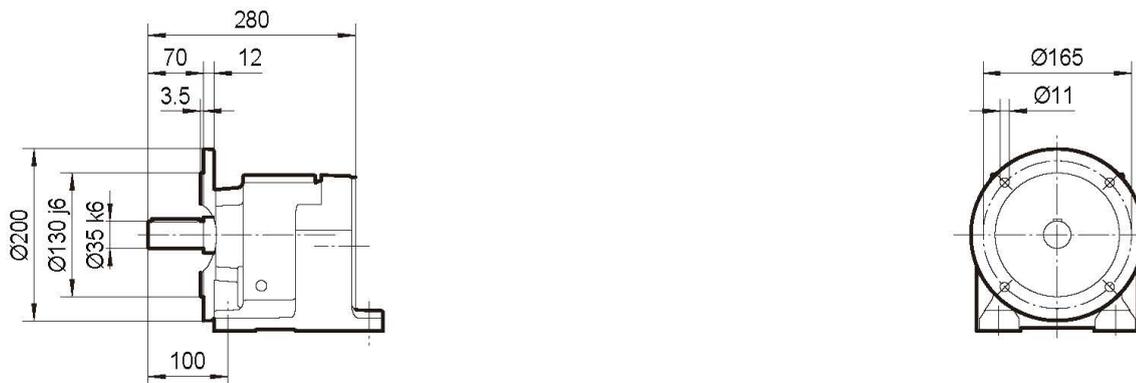
TRF58..

I
Ø160
II
Ø200
III
Ø250


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | | |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--|--|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | 206 | 206 | 252 | | |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | 178 | 178 | 227 | | |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | 178 | 178 | 227 | | |
| B | 185 | 199 | 250 | 290 | 309 | 339 | 354 | 402 | 424 | | |
| B1 | 233 | 249 | 304 | 360 | 379 | 409 | 434 | 482 | 534 | | |
| L | 442 | 456 | 507 | 547 | 566 | 596 | 611 | 659 | 681 | | |
| L1 | 490 | 506 | 561 | 617 | 636 | 666 | 691 | 739 | 791 | | |

TRZ58..

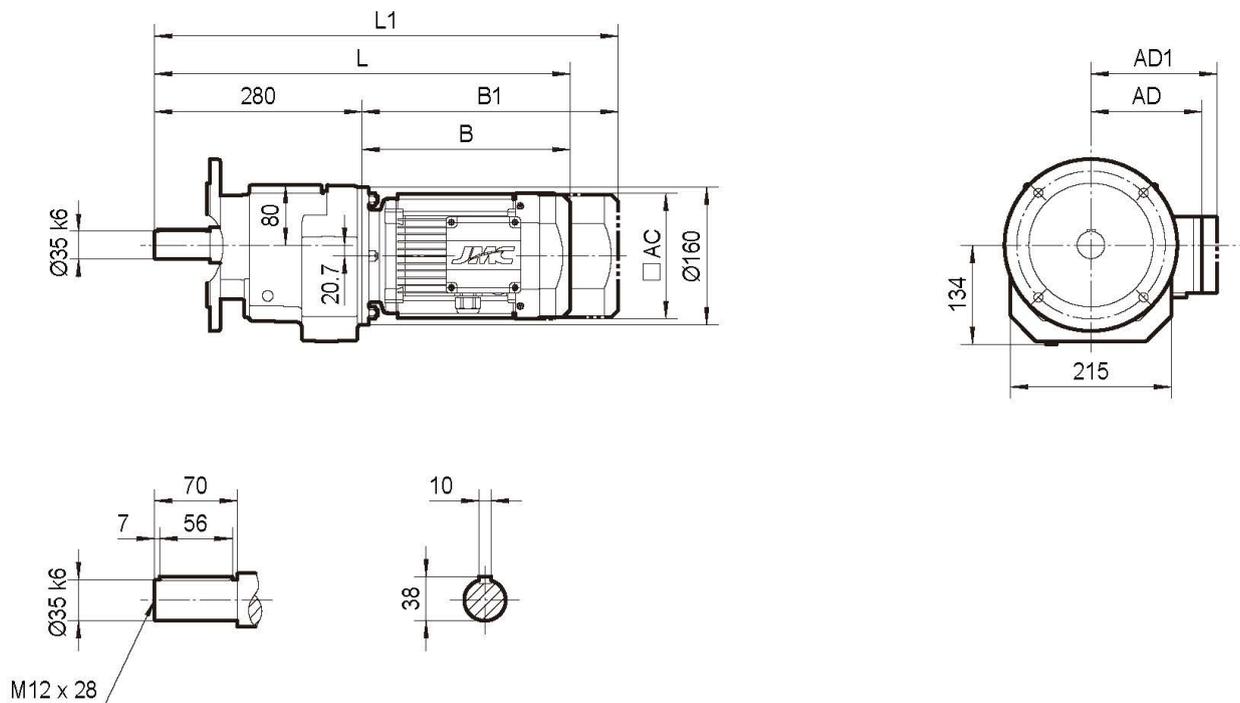


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | | |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--|--|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | 206 | 206 | 252 | | |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | 178 | 178 | 227 | | |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | 178 | 178 | 227 | | |
| B | 185 | 199 | 250 | 290 | 309 | 339 | 354 | 402 | 424 | | |
| B1 | 233 | 249 | 304 | 360 | 379 | 409 | 434 | 482 | 534 | | |
| L | 442 | 456 | 507 | 547 | 566 | 596 | 611 | 659 | 681 | | |
| L1 | 490 | 506 | 561 | 617 | 636 | 666 | 691 | 739 | 791 | | |

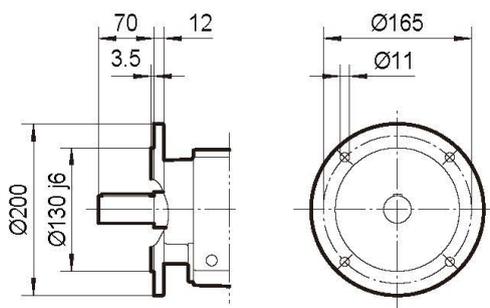
TR68..

TR68F..


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | | |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--|--|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | 206 | 206 | 252 | | |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | 178 | 178 | 227 | | |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | 178 | 178 | 227 | | |
| B | 185 | 199 | 250 | 290 | 309 | 339 | 354 | 402 | 424 | | |
| B1 | 233 | 249 | 304 | 360 | 379 | 409 | 434 | 482 | 534 | | |
| L | 465 | 479 | 530 | 570 | 589 | 619 | 634 | 682 | 704 | | |
| L1 | 513 | 529 | 584 | 640 | 659 | 689 | 714 | 762 | 814 | | |

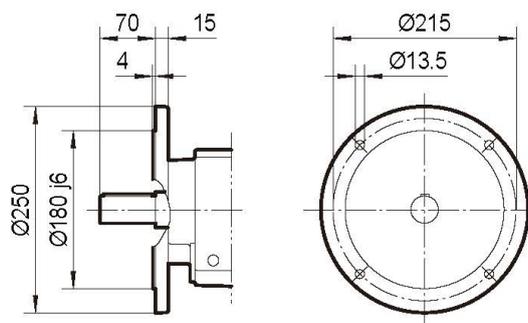
TRF68..



I
Ø200

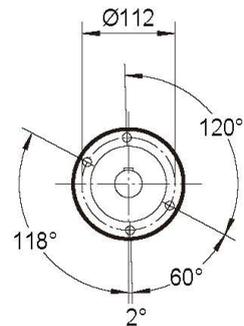
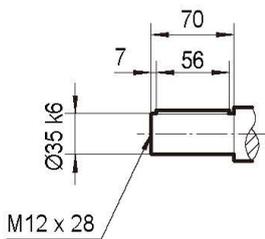
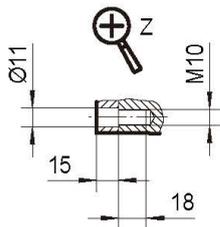
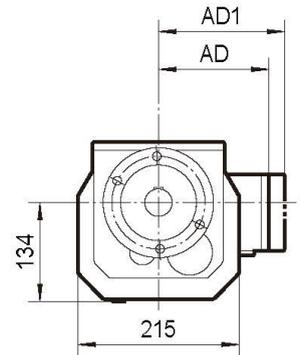
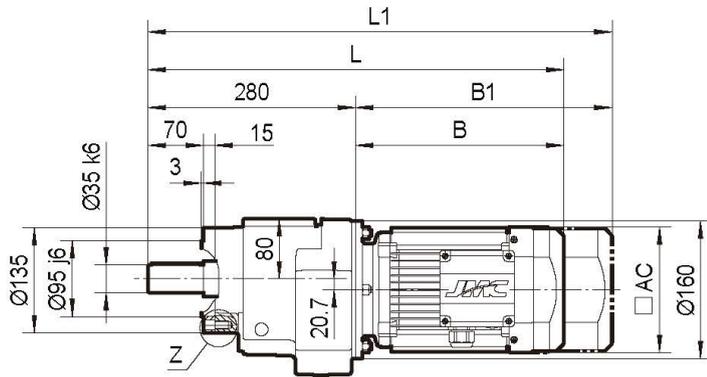


II
Ø250



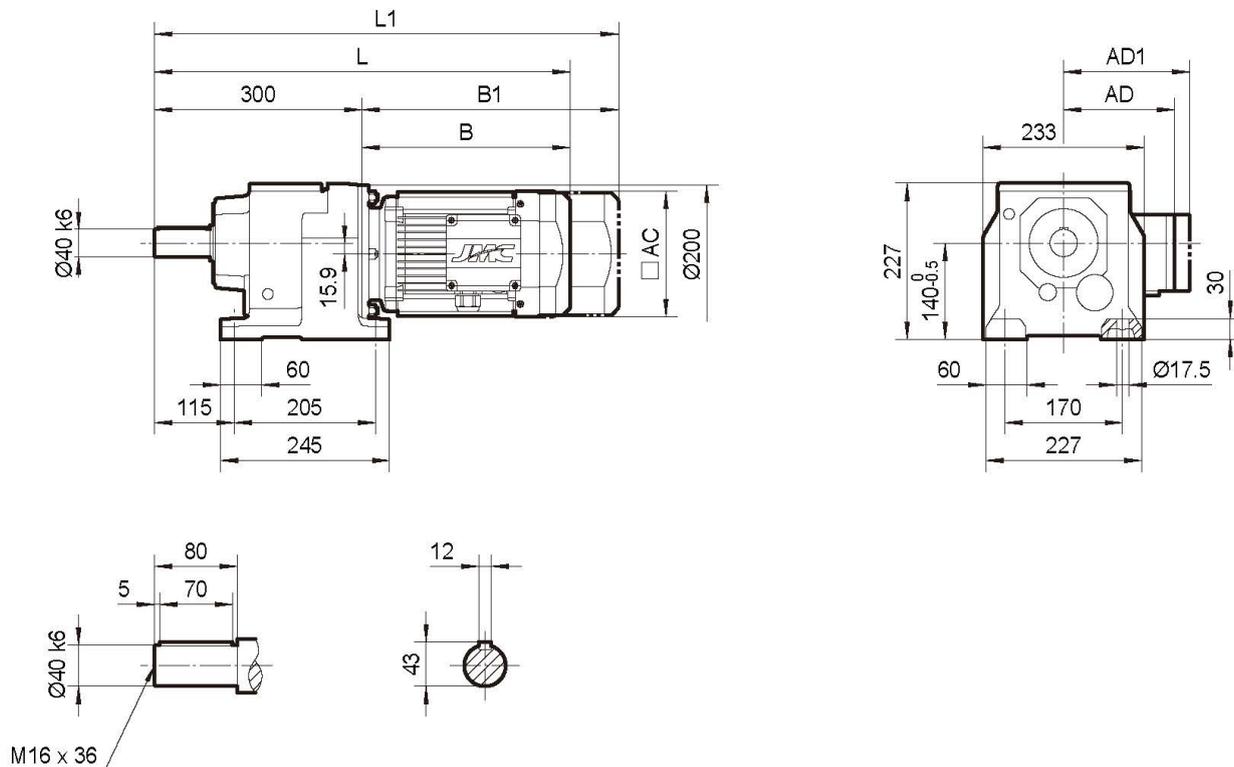
| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | | |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--|--|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | 206 | 206 | 252 | | |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | 178 | 178 | 227 | | |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | 178 | 178 | 227 | | |
| B | 185 | 199 | 250 | 290 | 309 | 339 | 354 | 402 | 424 | | |
| B1 | 233 | 249 | 304 | 360 | 379 | 409 | 434 | 482 | 534 | | |
| L | 465 | 479 | 530 | 570 | 589 | 619 | 634 | 682 | 704 | | |
| L1 | 513 | 529 | 584 | 640 | 659 | 689 | 714 | 762 | 814 | | |

TRZ68..

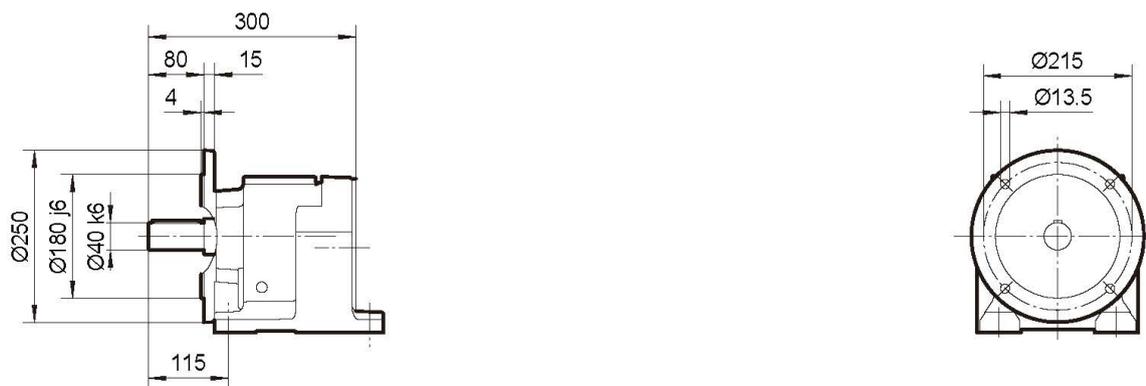


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | | |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--|--|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | 206 | 206 | 252 | | |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | 178 | 178 | 227 | | |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | 178 | 178 | 227 | | |
| B | 185 | 199 | 250 | 290 | 309 | 339 | 354 | 402 | 424 | | |
| B1 | 233 | 249 | 304 | 360 | 379 | 409 | 434 | 482 | 534 | | |
| L | 465 | 479 | 530 | 570 | 589 | 619 | 634 | 682 | 704 | | |
| L1 | 513 | 529 | 584 | 640 | 659 | 689 | 714 | 762 | 814 | | |

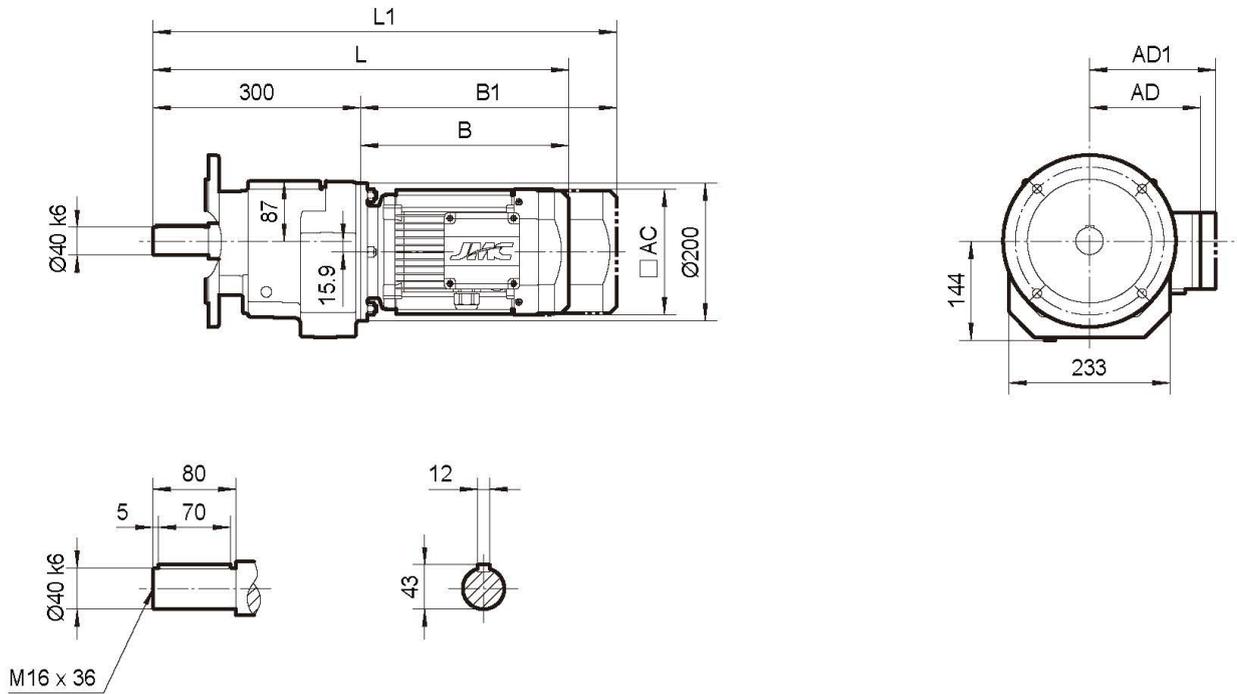
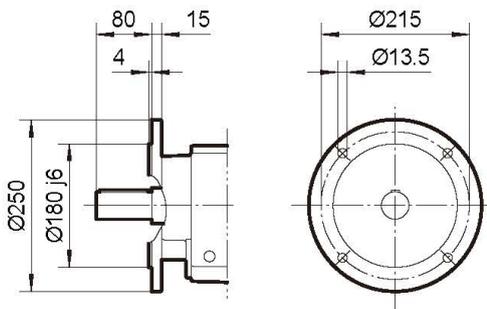
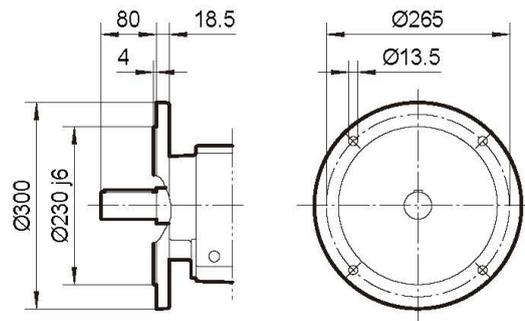
TR78..



TR78F..

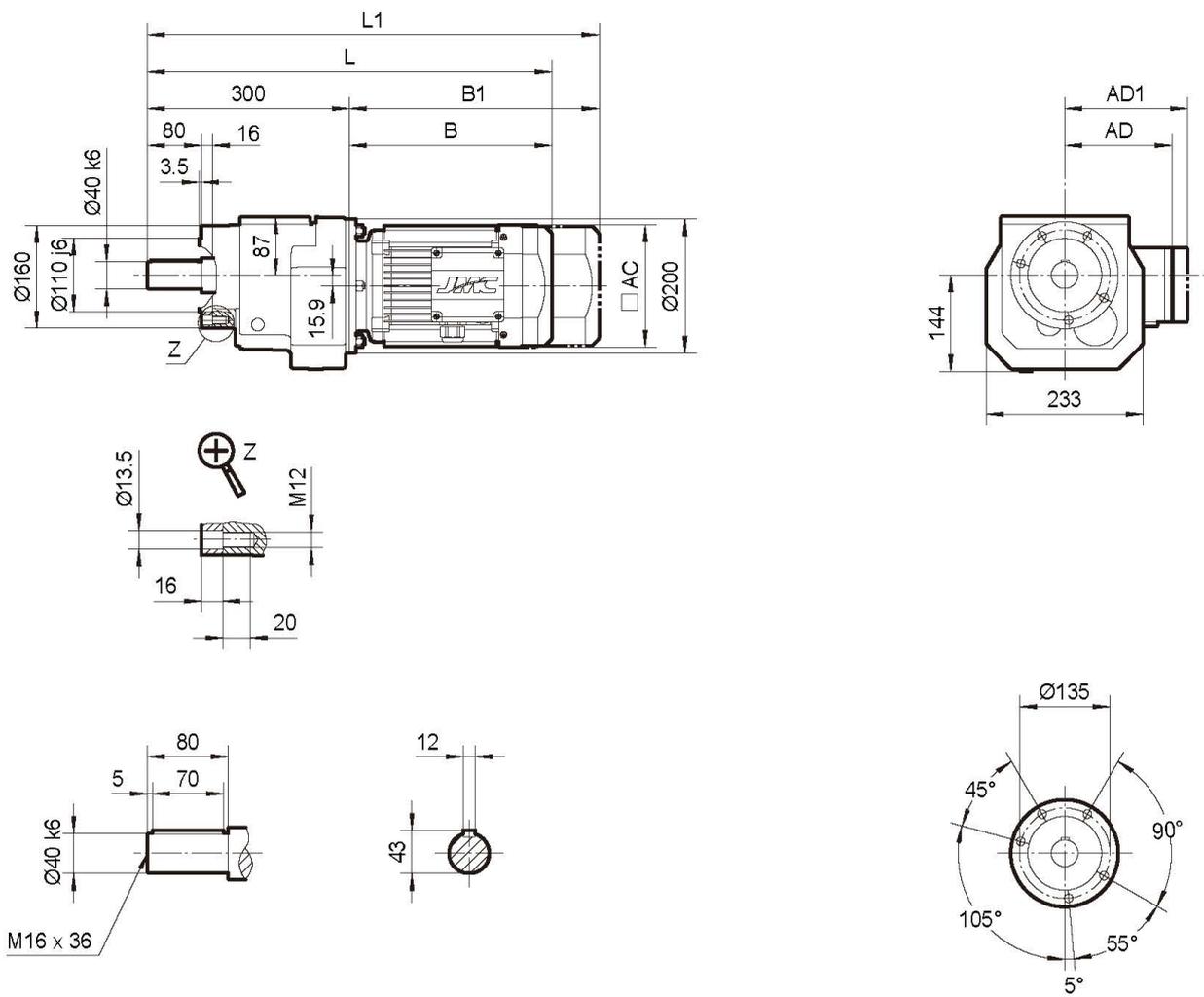


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | 206 | 206 | 252 | 252 | 252 |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | 178 | 178 | 227 | 227 | 227 |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | 178 | 178 | 227 | 227 | 227 |
| B | 179 | 193 | 244 | 282 | 301 | 331 | 345 | 390 | 412 | 472 | 472 |
| B1 | 227 | 243 | 298 | 352 | 371 | 401 | 425 | 470 | 522 | 582 | 582 |
| L | 479 | 493 | 544 | 582 | 601 | 631 | 645 | 690 | 712 | 772 | 772 |
| L1 | 527 | 543 | 598 | 652 | 671 | 701 | 725 | 770 | 822 | 882 | 882 |

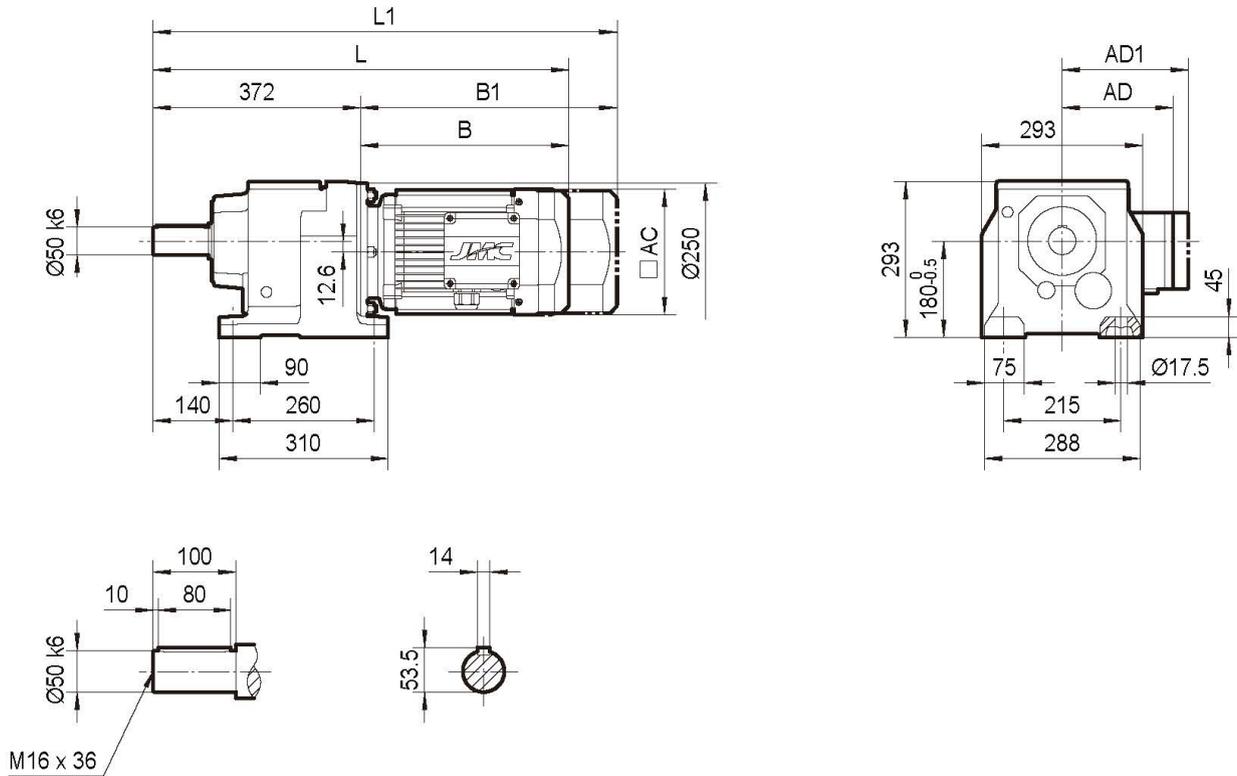
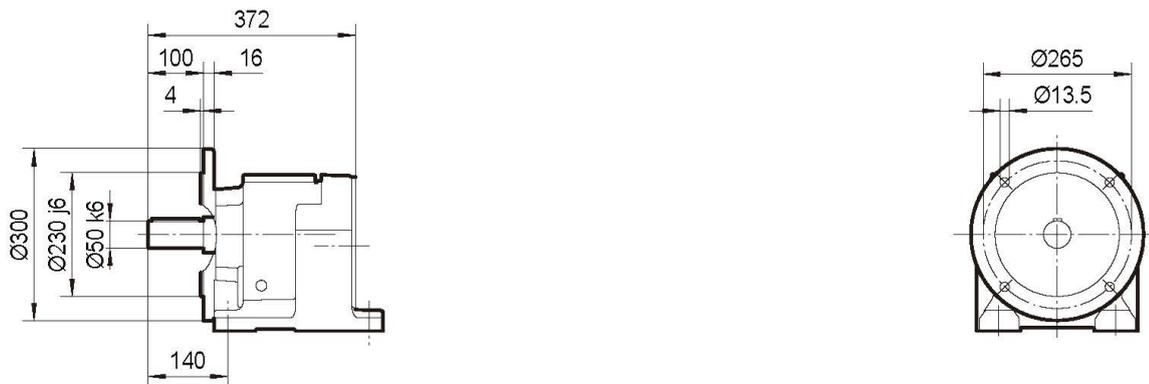
TRF78..

I
Ø250

II
Ø300


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | 206 | 206 | 252 | 252 | 252 |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | 178 | 178 | 227 | 227 | 227 |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | 178 | 178 | 227 | 227 | 227 |
| B | 179 | 193 | 244 | 282 | 301 | 331 | 345 | 390 | 412 | 472 | 472 |
| B1 | 227 | 243 | 298 | 352 | 371 | 401 | 425 | 470 | 522 | 582 | 582 |
| L | 479 | 493 | 544 | 582 | 601 | 631 | 645 | 690 | 712 | 772 | 772 |
| L1 | 527 | 543 | 598 | 652 | 671 | 701 | 725 | 770 | 822 | 882 | 882 |

TRZ78..

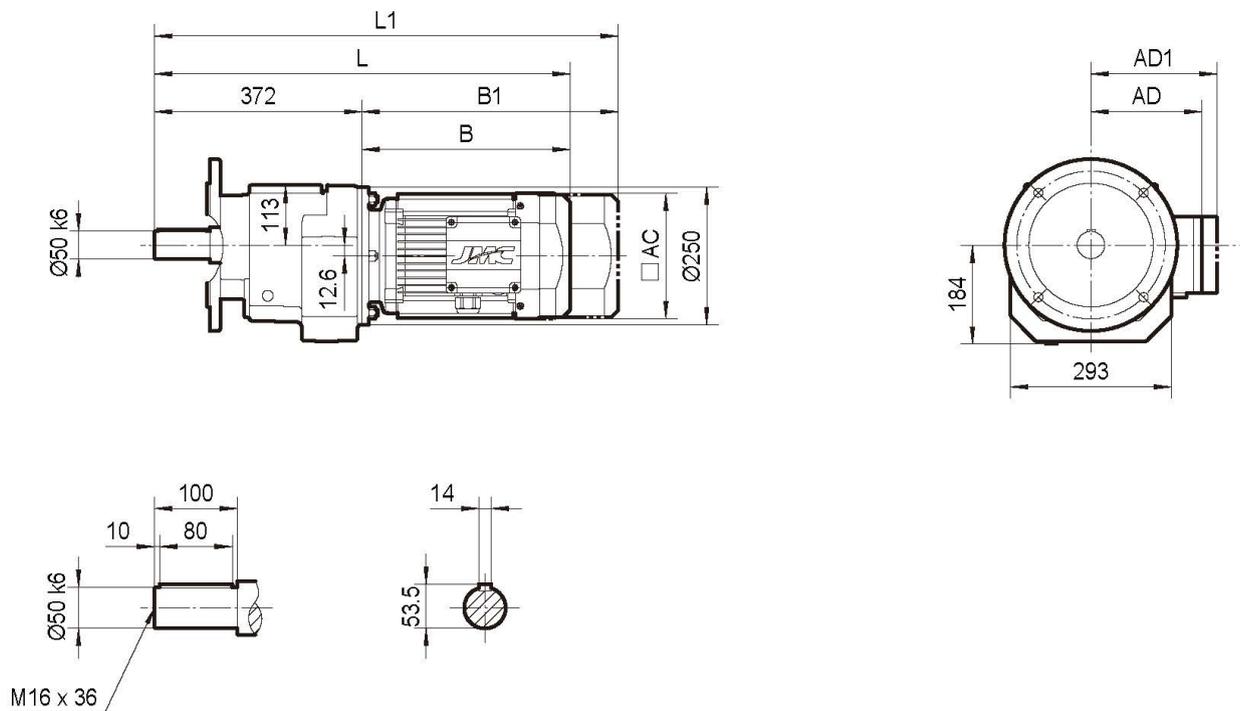


| | MY63.. | MY71D | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| AC | 118 | 134 | 142 | 158 | 182 | 182 | 206 | 206 | 252 | 252 | 252 |
| AD | 110 | 122 | 129 | 137 | 165 | 165 | 178 | 178 | 227 | 227 | 227 |
| AD1 | 115 | 127 | 134 | 142 | 165 | 165 | 178 | 178 | 227 | 227 | 227 |
| B | 179 | 193 | 244 | 282 | 301 | 331 | 345 | 390 | 412 | 472 | 472 |
| B1 | 227 | 243 | 298 | 352 | 371 | 401 | 425 | 470 | 522 | 582 | 582 |
| L | 479 | 493 | 544 | 582 | 601 | 631 | 645 | 690 | 712 | 772 | 772 |
| L1 | 527 | 543 | 598 | 652 | 671 | 701 | 725 | 770 | 822 | 882 | 882 |

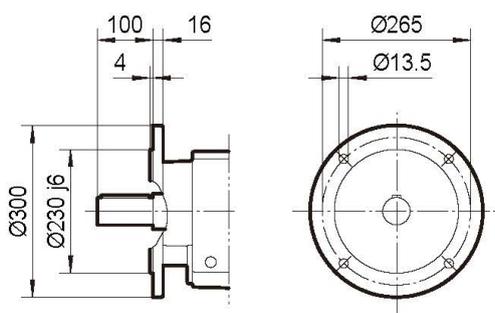
TR88..

TR88F..


| | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. |
|------------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|
| AC | 142 | 158 | 182 | 182 | 206 | 206 | 252 | 252 | 252 | 310 | 310 |
| AD | 129 | 137 | 165 | 165 | 178 | 178 | 227 | 227 | 227 | 252 | 252 |
| AD1 | 134 | 142 | 165 | 165 | 178 | 178 | 227 | 227 | 227 | 252 | 252 |
| B | 239 | 278 | 297 | 327 | 340 | 385 | 407 | 467 | 467 | 534 | 594 |
| B1 | 293 | 348 | 367 | 397 | 420 | 465 | 517 | 577 | 577 | 664 | 724 |
| L | 611 | 650 | 669 | 699 | 712 | 757 | 779 | 839 | 839 | 906 | 966 |
| L1 | 665 | 720 | 739 | 769 | 792 | 837 | 889 | 949 | 949 | 1036 | 1096 |

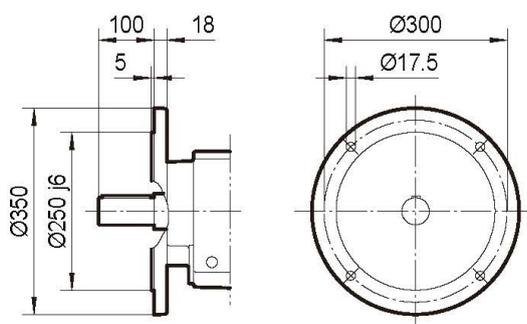
TRF88..



I
Ø300

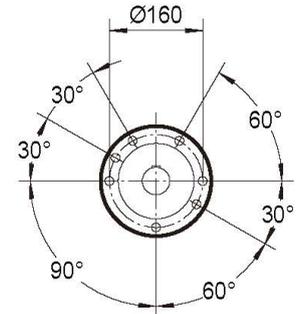
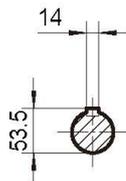
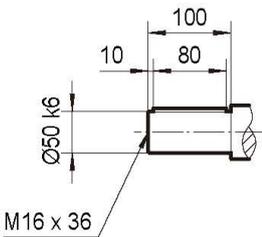
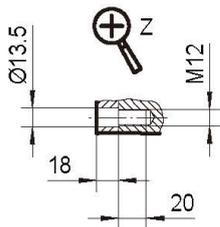
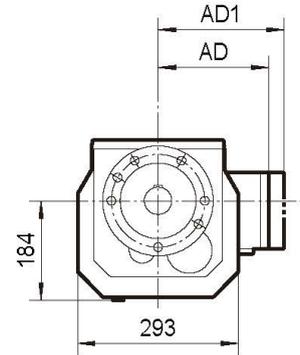
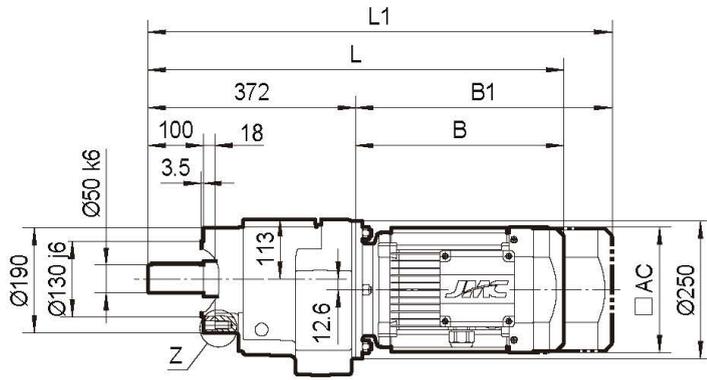


II
Ø350



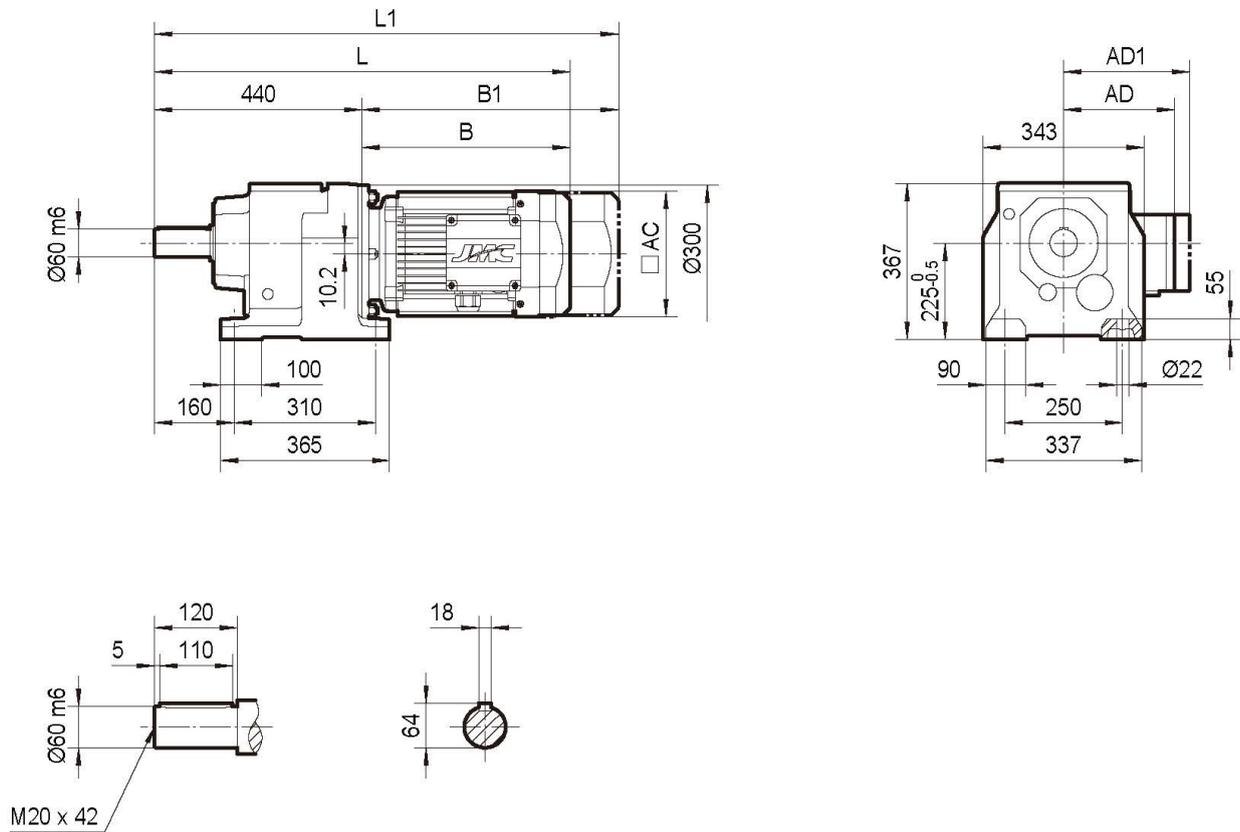
| | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. |
|-----|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|
| AC | 142 | 158 | 182 | 182 | 206 | 206 | 252 | 252 | 252 | 310 | 310 |
| AD | 129 | 137 | 165 | 165 | 178 | 178 | 227 | 227 | 227 | 252 | 252 |
| AD1 | 134 | 142 | 165 | 165 | 178 | 178 | 227 | 227 | 227 | 252 | 252 |
| B | 239 | 278 | 297 | 327 | 340 | 385 | 407 | 467 | 467 | 534 | 594 |
| B1 | 293 | 348 | 367 | 397 | 420 | 465 | 517 | 577 | 577 | 664 | 724 |
| L | 611 | 650 | 669 | 699 | 712 | 757 | 779 | 839 | 839 | 906 | 966 |
| L1 | 665 | 720 | 739 | 769 | 792 | 837 | 889 | 949 | 949 | 1036 | 1096 |

TRZ88..

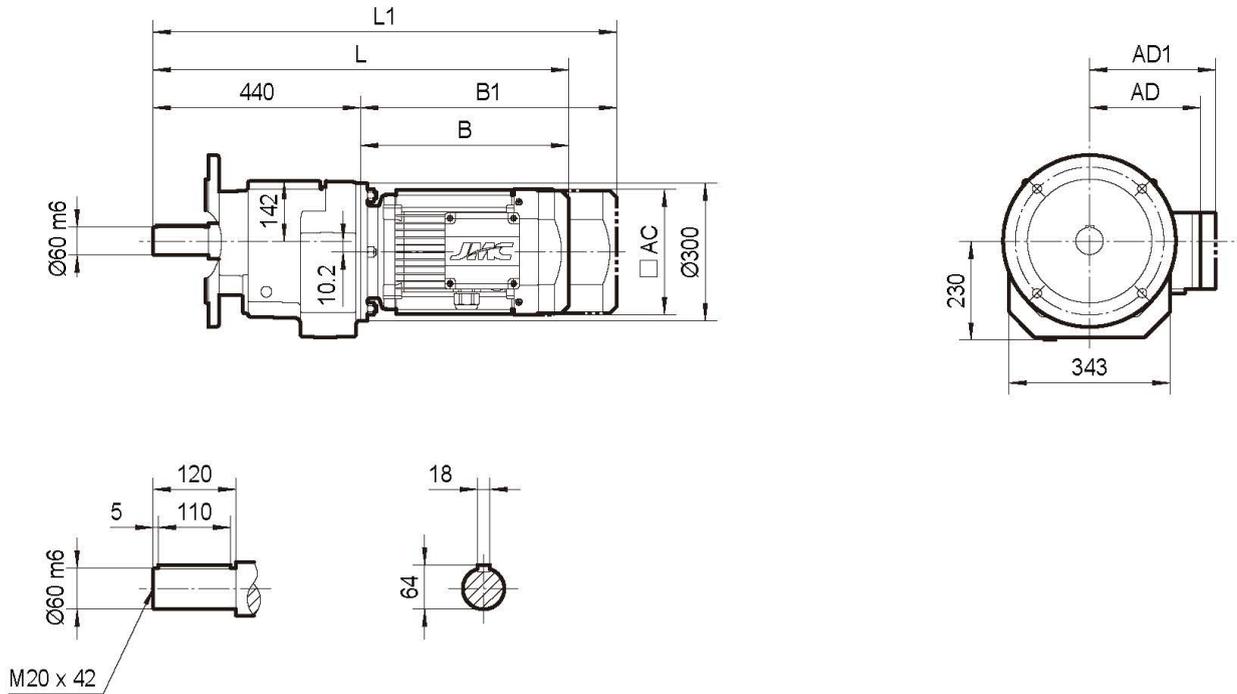
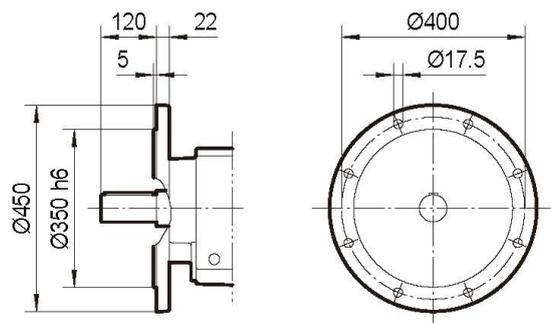
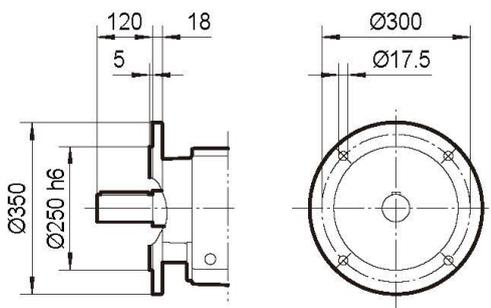


| | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. |
|------------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|
| AC | 142 | 158 | 182 | 182 | 206 | 206 | 252 | 252 | 252 | 310 | 310 |
| AD | 129 | 137 | 165 | 165 | 178 | 178 | 227 | 227 | 227 | 252 | 252 |
| AD1 | 134 | 142 | 165 | 165 | 178 | 178 | 227 | 227 | 227 | 252 | 252 |
| B | 239 | 278 | 297 | 327 | 340 | 385 | 407 | 467 | 467 | 534 | 594 |
| B1 | 293 | 348 | 367 | 397 | 420 | 465 | 517 | 577 | 577 | 664 | 724 |
| L | 611 | 650 | 669 | 699 | 712 | 757 | 779 | 839 | 839 | 906 | 966 |
| L1 | 665 | 720 | 739 | 769 | 792 | 837 | 889 | 949 | 949 | 1036 | 1096 |

TR98..

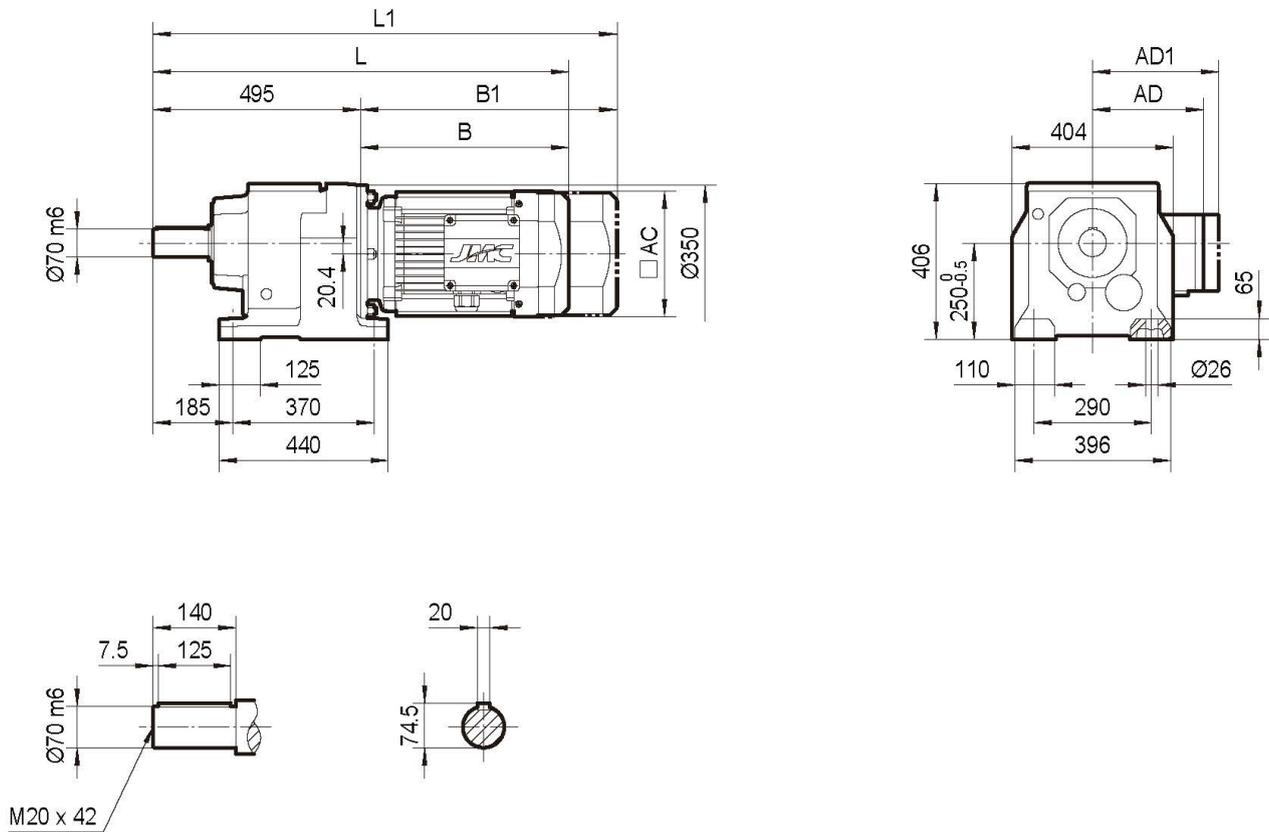


| | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. |
|------------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|---------|
| AC | 142 | 158 | 182 | 182 | 206 | 206 | 252 | 252 | 252 | 310 | 310 | 394 |
| AD | 129 | 137 | 165 | 165 | 178 | 178 | 227 | 227 | 227 | 252 | 252 | 285 |
| AD1 | 134 | 142 | 165 | 165 | 178 | 178 | 227 | 227 | 227 | 252 | 252 | 285 |
| B | 232 | 272 | 291 | 321 | 335 | 380 | 402 | 462 | 462 | 529 | 589 | 629 |
| B1 | 286 | 342 | 361 | 391 | 415 | 460 | 512 | 572 | 572 | 659 | 719 | 785 |
| L | 672 | 712 | 731 | 761 | 775 | 820 | 842 | 902 | 902 | 969 | 1029 | 1069 |
| L1 | 726 | 782 | 801 | 831 | 855 | 900 | 952 | 1012 | 1012 | 1099 | 1159 | 1225 |

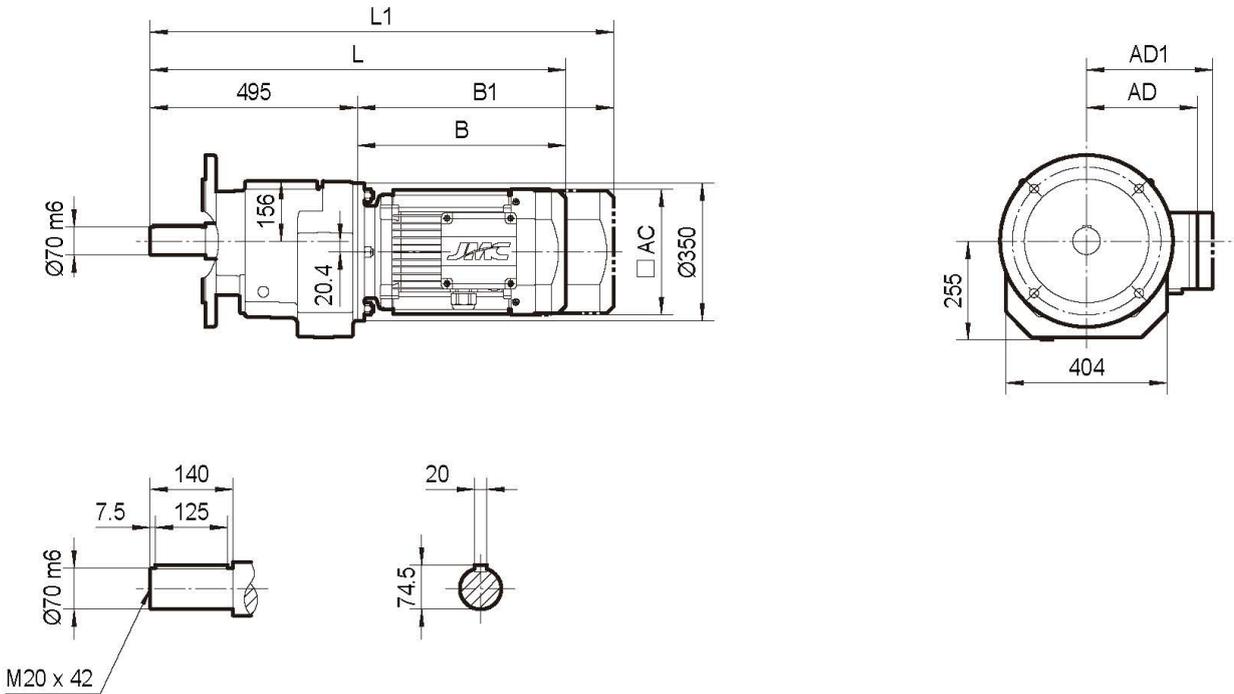
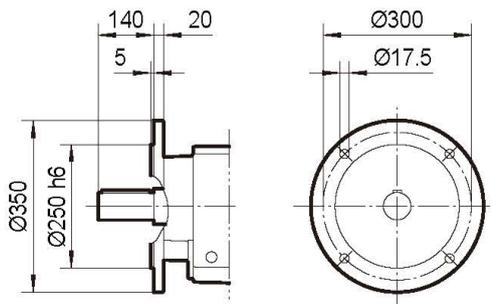
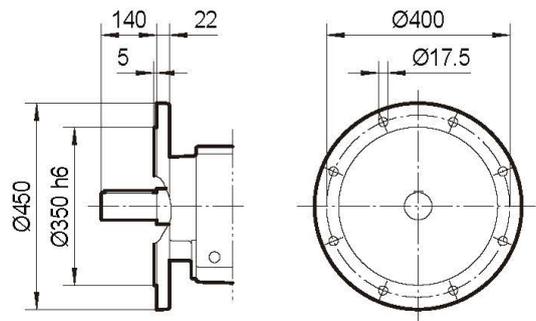
TRF98..

I
Ø350
II
Ø450


| | MY80.. | MY90.. | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. |
|------------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|---------|
| AC | 142 | 158 | 182 | 182 | 206 | 206 | 252 | 252 | 252 | 310 | 310 | 394 |
| AD | 129 | 137 | 165 | 165 | 178 | 178 | 227 | 227 | 227 | 252 | 252 | 285 |
| AD1 | 134 | 142 | 165 | 165 | 178 | 178 | 227 | 227 | 227 | 252 | 252 | 285 |
| B | 232 | 272 | 291 | 321 | 335 | 380 | 402 | 462 | 462 | 529 | 589 | 629 |
| B1 | 286 | 342 | 361 | 391 | 415 | 460 | 512 | 572 | 572 | 659 | 719 | 785 |
| L | 672 | 712 | 731 | 761 | 775 | 820 | 842 | 902 | 902 | 969 | 1029 | 1069 |
| L1 | 726 | 782 | 801 | 831 | 855 | 900 | 952 | 1012 | 1012 | 1099 | 1159 | 1225 |

TR108..

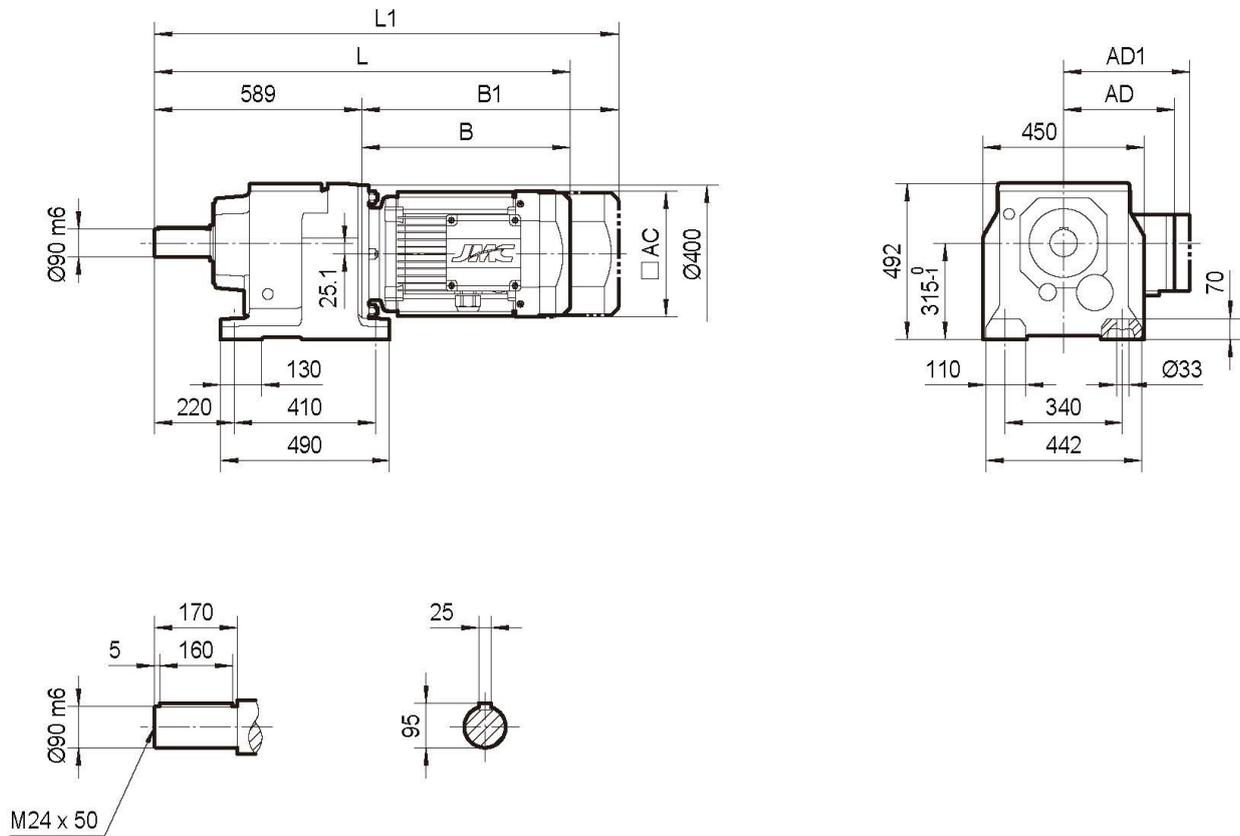


| | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. | MY225.. |
|------------|--------|--------|--------|--------|--------|---------|--------|--------|---------|---------|---------|
| AC | 182 | 182 | 206 | 206 | 252 | 252 | 252 | 310 | 310 | 394 | 394 |
| AD | 165 | 165 | 178 | 178 | 227 | 227 | 227 | 252 | 252 | 285 | 289 |
| AD1 | 165 | 165 | 178 | 178 | 227 | 227 | 227 | 252 | 252 | 285 | 289 |
| B | 285 | 315 | 329 | 374 | 396 | 456 | 456 | 523 | 583 | 623 | 705 |
| B1 | 355 | 385 | 409 | 454 | 506 | 566 | 566 | 653 | 713 | 779 | 861 |
| L | 780 | 810 | 824 | 869 | 891 | 951 | 951 | 1018 | 1078 | 1118 | 1200 |
| L1 | 850 | 880 | 904 | 949 | 1001 | 1061 | 1061 | 1148 | 1208 | 1274 | 1356 |

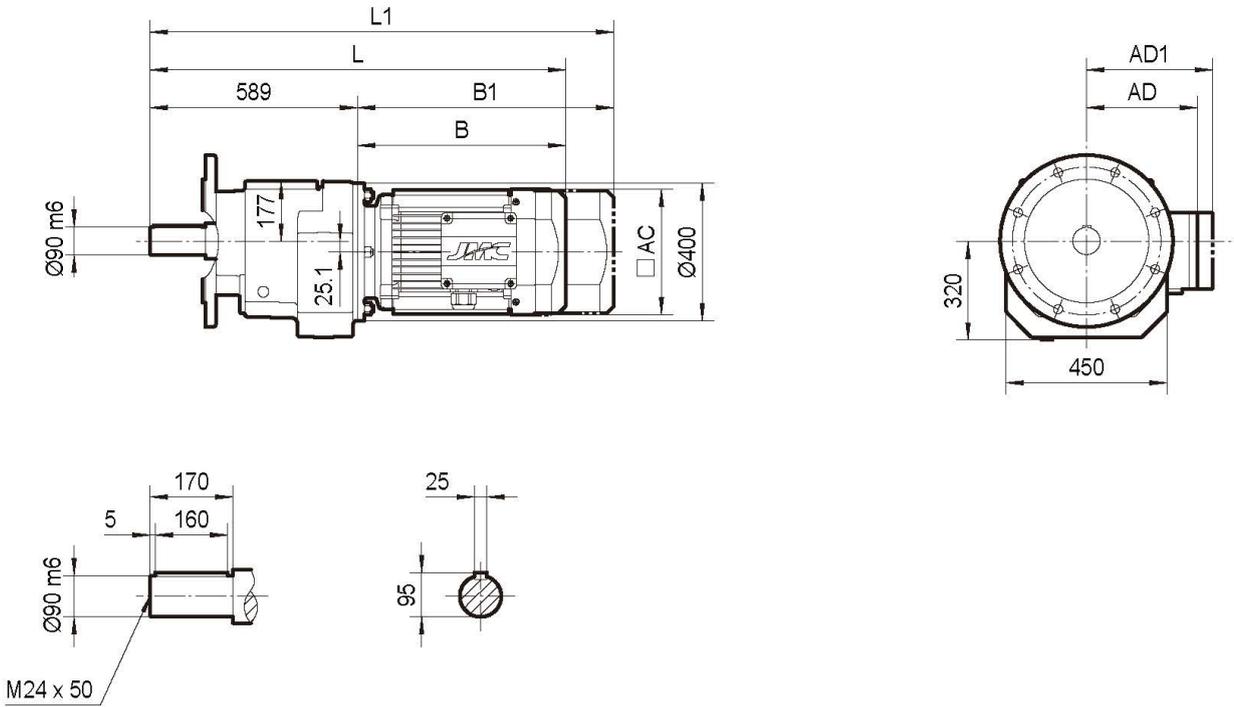
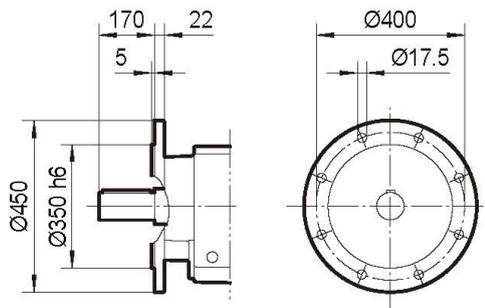
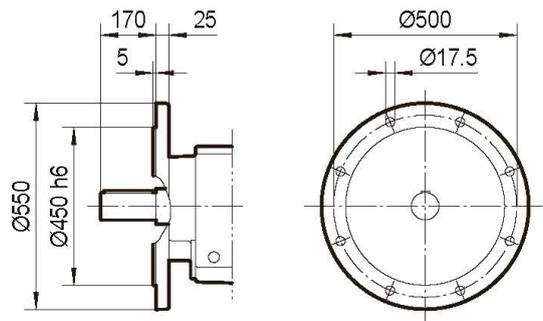
TRF108..

I
Ø350

II
Ø450


| | MY100M | MY100L | MY112M | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. | MY225.. |
|------------|--------|--------|--------|--------|--------|---------|--------|--------|---------|---------|---------|
| AC | 182 | 182 | 206 | 206 | 252 | 252 | 252 | 310 | 310 | 394 | 394 |
| AD | 165 | 165 | 178 | 178 | 227 | 227 | 227 | 252 | 252 | 285 | 289 |
| AD1 | 165 | 165 | 178 | 178 | 227 | 227 | 227 | 252 | 252 | 285 | 289 |
| B | 285 | 315 | 329 | 374 | 396 | 456 | 456 | 523 | 583 | 623 | 705 |
| B1 | 355 | 385 | 409 | 454 | 506 | 566 | 566 | 653 | 713 | 779 | 861 |
| L | 780 | 810 | 824 | 869 | 891 | 951 | 951 | 1018 | 1078 | 1118 | 1200 |
| L1 | 850 | 880 | 904 | 949 | 1001 | 1061 | 1061 | 1148 | 1208 | 1274 | 1356 |

TR138..

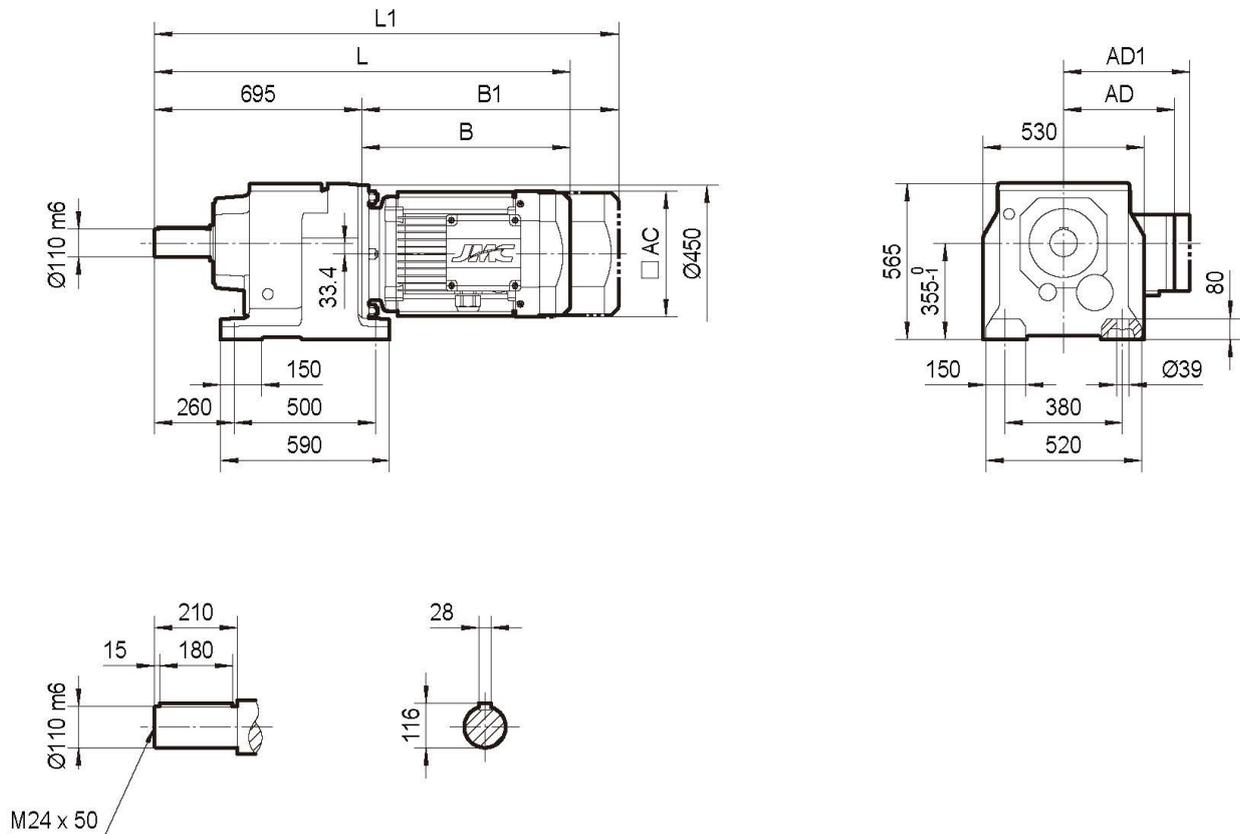


| | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. | MY225.. | MY250M | | |
|------------|--------|--------|---------|--------|--------|---------|---------|---------|--------|--|--|
| AC | 206 | 252 | 252 | 252 | 310 | 310 | 394 | 394 | 510 | | |
| AD | 178 | 227 | 227 | 227 | 252 | 252 | 285 | 289 | 397 | | |
| AD1 | 178 | 227 | 227 | 227 | 252 | 252 | 285 | 289 | 397 | | |
| B | 367 | 389 | 449 | 449 | 516 | 576 | 616 | 698 | 789 | | |
| B1 | 447 | 499 | 559 | 559 | 646 | 706 | 772 | 854 | 974 | | |
| L | 956 | 978 | 1038 | 1038 | 1105 | 1165 | 1205 | 1287 | 1378 | | |
| L1 | 1036 | 1088 | 1148 | 1148 | 1235 | 1295 | 1361 | 1443 | 1563 | | |

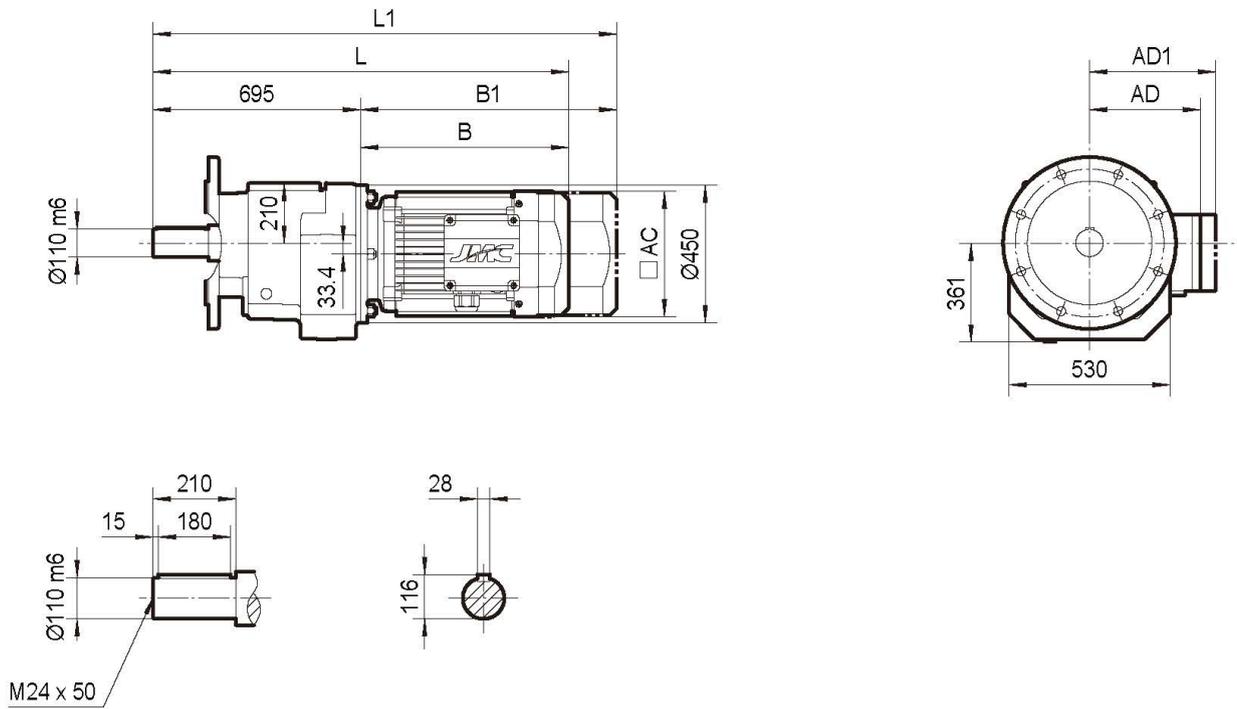
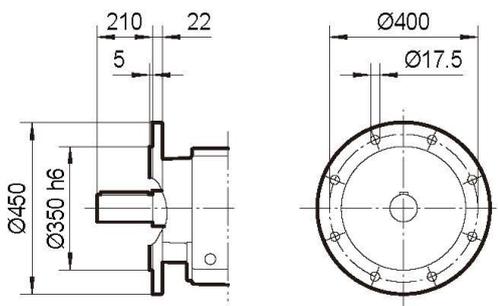
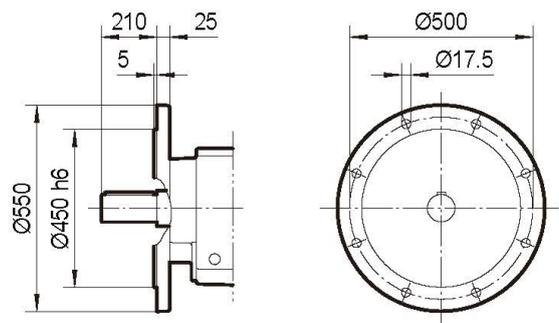
TRF138..

I
Ø450

II
Ø550


| | MY132S | MY132M | MY132ML | MY160M | MY160L | MY180.. | MY200.. | MY225.. | MY250M | | |
|------------|--------|--------|---------|--------|--------|---------|---------|---------|--------|--|--|
| AC | 206 | 252 | 252 | 252 | 310 | 310 | 394 | 394 | 510 | | |
| AD | 178 | 227 | 227 | 227 | 252 | 252 | 285 | 289 | 397 | | |
| AD1 | 178 | 227 | 227 | 227 | 252 | 252 | 285 | 289 | 397 | | |
| B | 367 | 389 | 449 | 449 | 516 | 576 | 616 | 698 | 789 | | |
| B1 | 447 | 499 | 559 | 559 | 646 | 706 | 772 | 854 | 974 | | |
| L | 956 | 978 | 1038 | 1038 | 1105 | 1165 | 1205 | 1287 | 1378 | | |
| L1 | 1036 | 1088 | 1148 | 1148 | 1235 | 1295 | 1361 | 1443 | 1563 | | |

TR148..

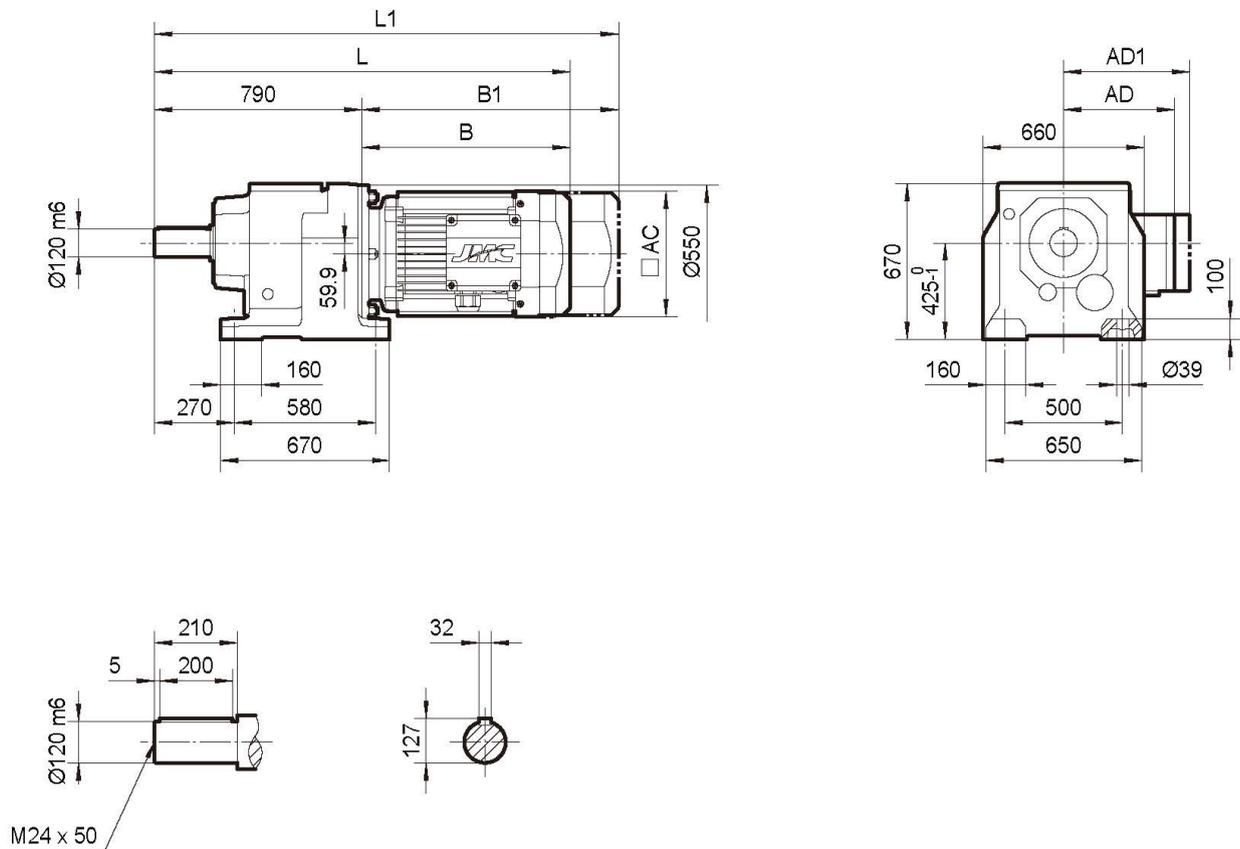


| | MY132ML | MY160M | MY160L | MY180.. | MY200.. | MY225.. | MY250M | MY280.. | | | |
|------------|---------|--------|--------|---------|---------|---------|--------|---------|--|--|--|
| AC | 252 | 252 | 310 | 310 | 394 | 394 | 510 | 510 | | | |
| AD | 227 | 227 | 252 | 252 | 285 | 289 | 397 | 397 | | | |
| AD1 | 227 | 227 | 252 | 252 | 285 | 289 | 397 | 397 | | | |
| B | 441 | 441 | 508 | 568 | 608 | 690 | 780 | 780 | | | |
| B1 | 551 | 551 | 638 | 698 | 764 | 846 | 965 | 965 | | | |
| L | 1136 | 1136 | 1203 | 1263 | 1303 | 1385 | 1475 | 1475 | | | |
| L1 | 1246 | 1246 | 1333 | 1393 | 1459 | 1541 | 1660 | 1660 | | | |

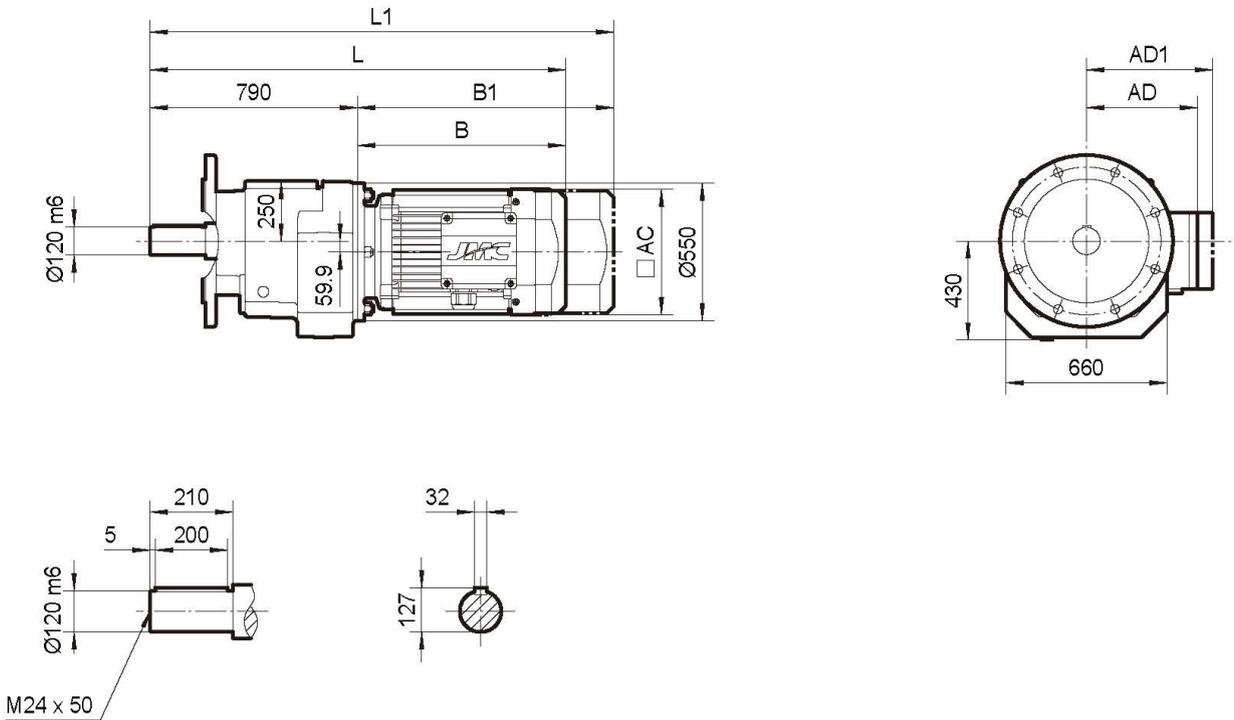
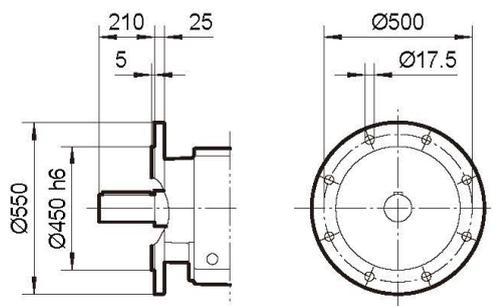
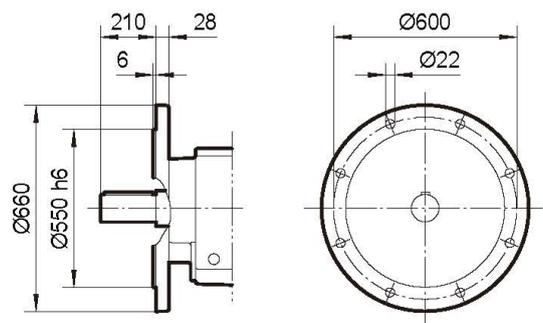
TRF148..

I
Ø450

II
Ø550


| | MY132ML | MY160M | MY160L | MY180.. | MY200.. | MY225.. | MY250M | MY280.. | | | |
|------------|---------|--------|--------|---------|---------|---------|--------|---------|--|--|--|
| AC | 252 | 252 | 310 | 310 | 394 | 394 | 510 | 510 | | | |
| AD | 227 | 227 | 252 | 252 | 285 | 289 | 397 | 397 | | | |
| AD1 | 227 | 227 | 252 | 252 | 285 | 289 | 397 | 397 | | | |
| B | 441 | 441 | 508 | 568 | 608 | 690 | 780 | 780 | | | |
| B1 | 551 | 551 | 638 | 698 | 764 | 846 | 965 | 965 | | | |
| L | 1136 | 1136 | 1203 | 1263 | 1303 | 1385 | 1475 | 1475 | | | |
| L1 | 1246 | 1246 | 1333 | 1393 | 1459 | 1541 | 1660 | 1660 | | | |

TR168..



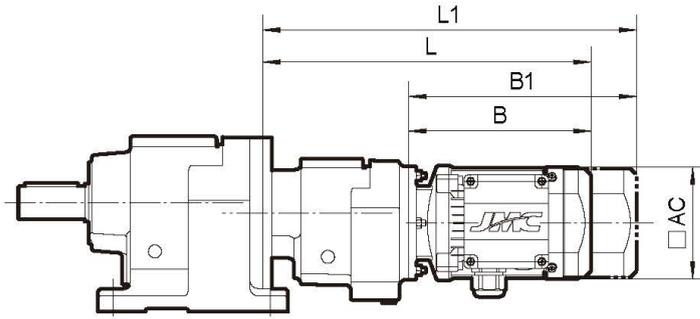
| | MY160M | MY160L | MY180.. | MY200.. | MY225.. | MY250M | MY280.. | MY315S | MY315M | | |
|------------|--------|--------|---------|---------|---------|--------|---------|--------|--------|--|--|
| AC | 252 | 310 | 310 | 394 | 394 | 510 | 510 | 612 | 612 | | |
| AD | 227 | 252 | 252 | 285 | 289 | 397 | 397 | 430 | 430 | | |
| AD1 | 227 | 252 | 252 | 285 | 289 | 397 | 397 | 430 | 430 | | |
| B | 433 | 500 | 560 | 600 | 682 | 771 | 771 | 999 | 1050 | | |
| B1 | 543 | 630 | 690 | 756 | 838 | 956 | 956 | 1210 | 1261 | | |
| L | 1223 | 1290 | 1350 | 1390 | 1472 | 1561 | 1561 | 1789 | 1840 | | |
| L1 | 1333 | 1420 | 1480 | 1546 | 1628 | 1746 | 1746 | 2000 | 2051 | | |

TRF168..

I
Ø550

II
Ø660


| | MY160M | MY160L | MY180.. | MY200.. | MY225.. | MY250M | MY280.. | MY315S | MY315M | | |
|------------|--------|--------|---------|---------|---------|--------|---------|--------|--------|--|--|
| AC | 252 | 310 | 310 | 394 | 394 | 510 | 510 | 612 | 612 | | |
| AD | 227 | 252 | 252 | 285 | 289 | 397 | 397 | 430 | 430 | | |
| AD1 | 227 | 252 | 252 | 285 | 289 | 397 | 397 | 430 | 430 | | |
| B | 433 | 500 | 560 | 600 | 682 | 771 | 771 | 999 | 1050 | | |
| B1 | 543 | 630 | 690 | 756 | 838 | 956 | 956 | 1210 | 1261 | | |
| L | 1223 | 1290 | 1350 | 1390 | 1472 | 1561 | 1561 | 1789 | 1840 | | |
| L1 | 1333 | 1420 | 1480 | 1546 | 1628 | 1746 | 1746 | 2000 | 2051 | | |

7.2 TR../TRF外形尺寸 / Outline Dimension

TR../TRF..

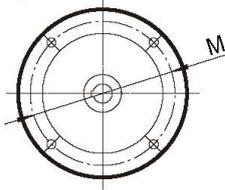


| TR../TRF.. | MY.. | AC | L | L1 | B | B1 |
|----------------|---------|-----|-----|-----|-----|-----|
| TR../28/TRF18 | MY63.. | 118 | 324 | 372 | 149 | 197 |
| | MY71D | 134 | 339 | 389 | 164 | 214 |
| | MY80.. | 142 | 380 | 434 | 205 | 259 |
| TR../48/TRF38 | MY63.. | 118 | 357 | 405 | 192 | 240 |
| TR../58/TRF38 | MY71D | 134 | 371 | 421 | 206 | 256 |
| TR../68/TRF38 | MY80.. | 142 | 422 | 476 | 257 | 311 |
| TR../78/TRF38 | MY63.. | 118 | 349 | 397 | 192 | 240 |
| | MY71D | 134 | 363 | 413 | 206 | 256 |
| | MY80.. | 142 | 414 | 468 | 257 | 311 |
| | MY90.. | 158 | 453 | 523 | 296 | 366 |
| TR../88/TRF58 | MY63.. | 118 | 401 | 449 | 185 | 233 |
| | MY71D | 134 | 415 | 465 | 199 | 249 |
| | MY80.. | 142 | 466 | 520 | 250 | 304 |
| TR../98/TRF58 | MY90.. | 158 | 506 | 576 | 290 | 360 |
| | MY63.. | 118 | 396 | 444 | 185 | 233 |
| | MY71D | 134 | 410 | 460 | 199 | 249 |
| TR../108/TRF78 | MY80.. | 142 | 461 | 515 | 250 | 304 |
| | MY90.. | 158 | 501 | 571 | 290 | 360 |
| | MY100M | 182 | 520 | 590 | 309 | 379 |
| | MY100L | 182 | 550 | 620 | 339 | 409 |
| | MY63.. | 118 | 426 | 476 | 179 | 227 |
| | MY71D | 134 | 440 | 490 | 193 | 243 |
| | MY80.. | 142 | 491 | 545 | 244 | 298 |
| TR../108/TRF78 | MY90.. | 158 | 529 | 599 | 282 | 352 |
| | MY100M | 182 | 548 | 618 | 301 | 371 |
| | MY100L | 182 | 578 | 648 | 331 | 401 |
| | MY112M | 206 | 592 | 672 | 345 | 425 |
| | MY132S | 206 | 637 | 717 | 390 | 470 |
| | MY132M | 252 | 659 | 769 | 412 | 522 |
| | MY132ML | 252 | 719 | 829 | 472 | 582 |
| TR../138/TRF78 | MY160M | 252 | 719 | 829 | 472 | 582 |
| | MY63.. | 118 | 419 | 467 | 179 | 227 |
| | MY71D | 134 | 433 | 483 | 193 | 243 |
| | MY80.. | 142 | 484 | 538 | 244 | 298 |
| | MY90.. | 158 | 522 | 592 | 282 | 352 |
| | MY100M | 182 | 541 | 611 | 301 | 371 |
| | MY100L | 182 | 571 | 641 | 331 | 401 |
| | MY112M | 206 | 585 | 665 | 345 | 425 |
| | MY132S | 206 | 630 | 710 | 390 | 470 |
| | MY132M | 252 | 652 | 762 | 412 | 522 |
| MY132ML | 252 | 712 | 822 | 472 | 582 | |
| MY160M | 252 | 712 | 822 | 472 | 582 | |

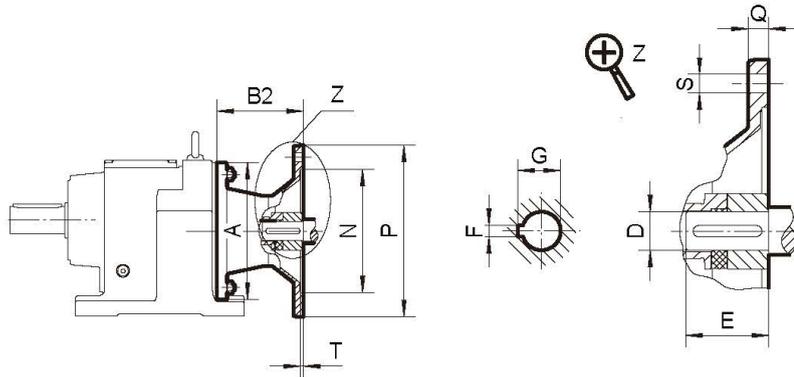
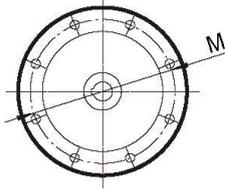
| TR../TRF.. | MY.. | AC | L | L1 | B | B1 |
|-----------------|---------|------|------|------|-----|-----|
| TR../148/TRF78 | MY63.. | 118 | 411 | 459 | 179 | 227 |
| | MY71D | 134 | 425 | 475 | 193 | 243 |
| | MY80.. | 142 | 476 | 530 | 244 | 298 |
| | MY90.. | 158 | 514 | 584 | 282 | 352 |
| | MY100M | 182 | 533 | 603 | 301 | 371 |
| | MY100L | 182 | 563 | 633 | 331 | 401 |
| | MY112M | 206 | 577 | 657 | 345 | 425 |
| | MY132S | 206 | 622 | 702 | 390 | 470 |
| | MY132M | 252 | 644 | 754 | 412 | 522 |
| | MY132ML | 252 | 704 | 814 | 472 | 582 |
| TR../148/TRF88 | MY160M | 252 | 704 | 814 | 472 | 582 |
| | MY90.. | 158 | 558 | 628 | 278 | 348 |
| | MY100M | 182 | 577 | 647 | 297 | 367 |
| | MY100L | 182 | 607 | 677 | 327 | 397 |
| | MY112M | 206 | 620 | 700 | 340 | 420 |
| | MY132S | 206 | 665 | 745 | 385 | 465 |
| | MY132M | 252 | 687 | 797 | 407 | 517 |
| | MY132ML | 252 | 747 | 857 | 467 | 577 |
| | MY160M | 252 | 747 | 857 | 467 | 577 |
| | MY160L | 310 | 814 | 944 | 534 | 664 |
| TR../168/TRF98 | MY180.. | 310 | 874 | 1004 | 594 | 724 |
| | MY80.. | 142 | 557 | 611 | 232 | 286 |
| | MY90.. | 158 | 597 | 667 | 272 | 342 |
| | MY100M | 182 | 616 | 686 | 291 | 361 |
| | MY100L | 182 | 646 | 716 | 321 | 391 |
| | MY112M | 206 | 660 | 740 | 335 | 415 |
| | MY132S | 206 | 705 | 785 | 380 | 460 |
| | MY132M | 252 | 727 | 837 | 402 | 512 |
| | MY132ML | 252 | 787 | 897 | 462 | 572 |
| | MY160M | 252 | 787 | 897 | 462 | 572 |
| TR../168/TRF108 | MY160L | 310 | 854 | 984 | 529 | 659 |
| | MY180.. | 310 | 914 | 1044 | 589 | 719 |
| | MY100M | 182 | 667 | 737 | 285 | 355 |
| | MY100L | 182 | 697 | 767 | 315 | 385 |
| | MY112M | 206 | 711 | 791 | 329 | 409 |
| | MY132S | 206 | 756 | 836 | 374 | 454 |
| | MY132M | 252 | 778 | 888 | 396 | 506 |
| | MY132ML | 252 | 838 | 948 | 456 | 566 |
| | MY160M | 252 | 838 | 948 | 456 | 566 |
| | MY160L | 310 | 905 | 1035 | 523 | 653 |
| MY180.. | 310 | 965 | 1095 | 583 | 713 | |
| MY200.. | 394 | 1005 | 1161 | 623 | 779 | |
| MY225.. | 394 | 1087 | 1243 | 705 | 861 | |

7.3 TR.. AM(IEC)..外形尺寸 / Outline Dimension
TR..AM(IEC)..

法兰1/Flange.1



法兰2/Flange.2



| TR.. | AM.. | Flange. | A | B2 | D | E | F | G | M | N | P | Q | S | T |
|-------------------------------|-------------|---------|-----|------|-----|-----|----|------|------|-----|------|-----|----------|-----|
| TR..28 TR..38 | AM63 | 1 | 120 | 72 | 11 | 23 | 4 | 12.8 | 115 | 95 | 140 | 10 | 4-Φ 9 | 3.5 |
| | AM71 1) | | | | 14 | 30 | 5 | 16.3 | 130 | 110 | 160 | | | |
| | AM80 1) | | | 106 | 19 | 40 | 6 | 21.8 | 165 | 130 | 200 | 12 | 4-Φ 11 | 4.5 |
| | AM90 1) | | | | 24 | 50 | 8 | 27.3 | | | | | | |
| TR..48 2) TR..58 TR..68 | AM63 | 1 | 160 | 66 | 11 | 23 | 4 | 12.8 | 115 | 95 | 140 | 10 | 4-Φ 9 | 3.5 |
| | AM71 | | | | 14 | 30 | 5 | 16.3 | 130 | 110 | 160 | | | |
| | AM80 | | | 99 | 19 | 40 | 6 | 21.8 | 165 | 130 | 200 | 12 | 4-Φ 11 | 4.5 |
| | AM90 | | | | 24 | 50 | 8 | 27.3 | | | | | | |
| | AM100 1) | | | 134 | 28 | 60 | 8 | 31.3 | 215 | 180 | 250 | 15 | 4-Φ13.5 | 5 |
| | AM112 1) | | | | | | | | | | | | | |
| | AM132S/M 1) | | | | 191 | 38 | 80 | 10 | 41.3 | 265 | 230 | 300 | | |
| TR..78 | AM63 | 1 | 200 | 60 | 11 | 23 | 4 | 12.8 | 115 | 95 | 140 | 10 | 4-Φ 9 | 3.5 |
| | AM71 | | | | 14 | 30 | 5 | 16.3 | 130 | 110 | 160 | | | |
| | AM80 | | | 92 | 19 | 40 | 6 | 21.8 | 165 | 130 | 200 | 12 | 4-Φ 11 | 4.5 |
| | AM90 | | | | 24 | 50 | 8 | 27.3 | | | | | | |
| | AM100 1) | | | 126 | 28 | 60 | 8 | 31.3 | 215 | 180 | 250 | 15 | 4-Φ13.5 | 5 |
| | AM112 1) | | | | | | | | | | | | | |
| | AM132S/M 1) | | | | 179 | 38 | 80 | 10 | 41.3 | 265 | 230 | 300 | | |
| | TR..88 | | | AM80 | 1 | 250 | 87 | 19 | 40 | 6 | 21.8 | 165 | 130 | 200 |
| AM90 | | 24 | 50 | 8 | | | | 27.3 | | | | | | |
| AM100 | | 121 | 28 | 60 | | | 8 | 31.3 | 215 | 180 | 250 | 15 | 4-Φ13.5 | 5 |
| AM112 | | | | | | | | | | | | | | |
| AM132S/M | | 174 | 38 | 80 | | | 10 | 41.3 | 265 | 230 | 300 | 16 | | |
| AM132ML | | | | | | | | | | | | | | |
| AM160 1) | | 232 | 42 | 110 | | | 12 | 45.3 | 300 | 250 | 350 | 18 | 4-Φ 17.5 | 6 |
| AM180 1) | | | 48 | | | | 14 | 51.8 | | | | | | |

1) 请检查尺寸P/2,它可能突出安装平面。

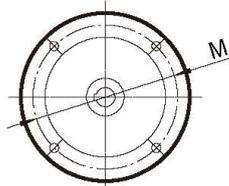
1) Dimension P/2 may protrude past foot mounting surface, please check.

2) 没有与AM112的联接。

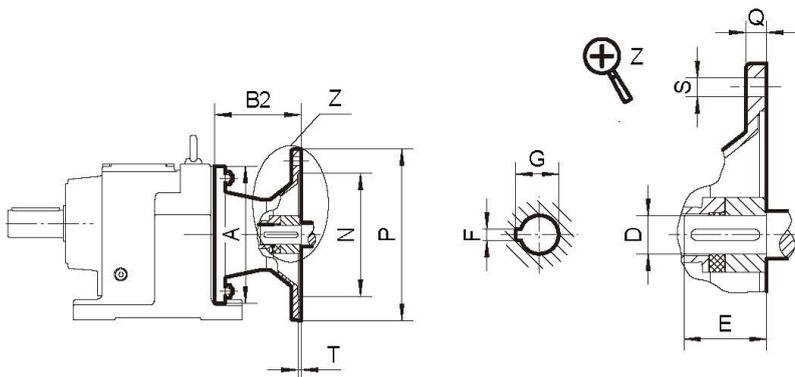
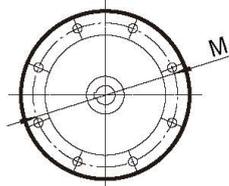
2) not with AM112.

TR..AM(IEC)..

法兰1/Flange.1



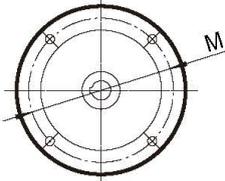
法兰2/Flange.2



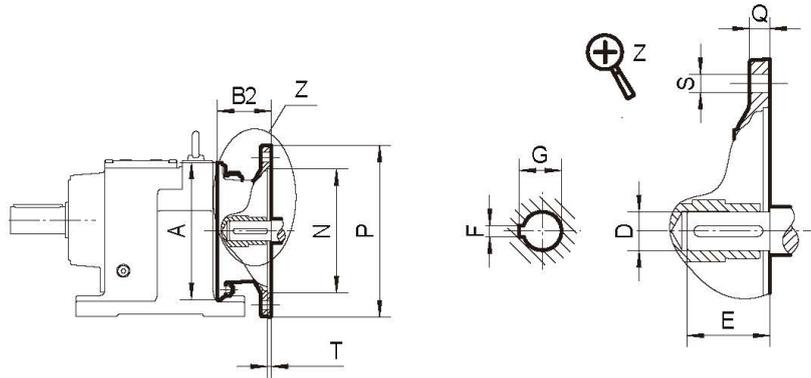
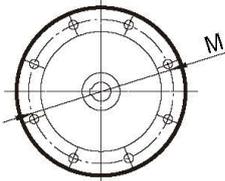
| TR.. | AM.. | Flange. | A | B2 | D | E | F | G | M | N | P | Q | S | T |
|---------|----------|---------|-----|------|------|------|-----|------|-----|-----|---------|----|---------|---|
| TR..98 | AM100 | 1 | 300 | 116 | 28 | 60 | 8 | 31.3 | 215 | 180 | 250 | 15 | 4-Φ13.5 | 5 |
| | AM112 | | | | | | | | | | | | | |
| | AM132S/M | | | 169 | 38 | 80 | 10 | 41.3 | 265 | 230 | 300 | 16 | | |
| | AM132ML | | | | | | | | | | | | | |
| | AM160 | | | 227 | 42 | 110 | 12 | 45.3 | 300 | 250 | 350 | 18 | | |
| | AM180 | | | | | | | | | | | | | |
| AM200 | 268 | 55 | 16 | 59.3 | 350 | 300 | 400 | 20 | | | | | | |
| TR..108 | AM100 | 1 | 350 | 110 | 28 | 60 | 8 | 31.3 | 215 | 180 | 250 | 15 | 4-Φ13.5 | 5 |
| | AM112 | | | | | | | | | | | | | |
| | AM132S/M | | | 163 | 38 | 80 | 10 | 41.3 | 265 | 230 | 300 | 16 | | |
| | AM132ML | | | | | | | | | | | | | |
| | AM160 | | | 221 | 42 | 110 | 12 | 45.3 | 300 | 250 | 350 | 18 | | |
| | AM180 | | | | | | | | | | | | | |
| | AM200 | 262 | 55 | 16 | 59.3 | 350 | 300 | 400 | 20 | | | | | |
| | AM225 | 277 | 60 | 140 | 18 | 64.4 | 400 | 350 | 450 | 22 | 8-Φ17.5 | 7 | | |
| TR..138 | AM132S/M | 1 | 400 | 148 | 38 | 80 | 10 | 41.3 | 265 | 230 | 300 | 16 | 4-Φ13.5 | 5 |
| | AM132ML | | | | | | | | | | | | | |
| | AM160 | | | 206 | 42 | 110 | 12 | 45.3 | 300 | 250 | 350 | 18 | | |
| | AM180 | | | | | | | | | | | | | |
| | AM200 | 247 | 55 | 16 | 59.3 | 350 | 300 | 400 | 20 | | | | | |
| | AM225 | 262 | 60 | 140 | 18 | 64.4 | 400 | 350 | 450 | 22 | 8-Φ17.5 | 7 | | |
| TR..148 | AM132S/M | 1 | 450 | 148 | 38 | 80 | 10 | 41.3 | 265 | 230 | 300 | 16 | 4-Φ13.5 | 5 |
| | AM132ML | | | | | | | | | | | | | |
| | AM160 | | | 206 | 42 | 110 | 12 | 45.3 | 300 | 250 | 350 | 18 | | |
| | AM180 | | | | | | | | | | | | | |
| | AM200 | 247 | 55 | 16 | 59.3 | 350 | 300 | 400 | 20 | | | | | |
| | AM225 | 262 | 60 | 140 | 18 | 64.4 | 400 | 350 | 450 | 22 | 8-Φ17.5 | 7 | | |
| | AM250 | 336 | 65 | 140 | 18 | 69.4 | 500 | 450 | 550 | 25 | | | | |
| | AM280 | | | | | | | | | | | | | |
| TR..168 | AM160 | 1 | 550 | 198 | 42 | 110 | 12 | 45.3 | 300 | 250 | 350 | 18 | 4-Φ17.5 | 6 |
| | AM180 | | | | | | | | | | | | | |
| | AM200 | | | | | | | | | | | | | |
| | AM225 | 2 | | 254 | 60 | 140 | 18 | 64.4 | 400 | 350 | 450 | 22 | 8-Φ17.5 | 7 |
| | AM250 | | | | | | | | | | | | | |
| | AM280 | | | | | | | | | | | | | |
| | | | | 328 | 65 | 140 | 18 | 69.4 | 500 | 450 | 550 | 25 | | |
| | | | | | 75 | | 20 | 79.9 | | | | | | |

7.4 TR.. TAM(IEC)..外形尺寸 / Outline Dimension
TR..TAM(IEC)..

法兰1/Flange.1



法兰2/Flange.2



| TR.. | TAM.. | Flange. | A | B2 | D | E | F | G | M | N | P | Q | S | T | | | | | | | | | |
|-------------------------------|--------------|---------|-----|-----|----|----|----|------|-----|-----|-----|----|---------|-----|-----|-----|-----|-----|---------|-----|-----|---------|-----|
| TR..28 3) TR..38 | TAM63 | 1 | 120 | 40 | 11 | 23 | 4 | 12.8 | 115 | 95 | 140 | 10 | 4-Φ 9 | 3.5 | | | | | | | | | |
| | TAM71 1) | | | 45 | 14 | 30 | 5 | 16.3 | | | | | | | 130 | 110 | 160 | | | | | | |
| | TAM80 1) | | | 56 | 19 | 40 | 6 | 21.8 | 165 | 130 | 200 | 12 | 4-Φ 11 | 4.5 | | | | | | | | | |
| | TAM90 1) | | | 66 | 24 | 50 | 8 | 27.3 | | | | | | | | | | 215 | 180 | 250 | 15 | 4-Φ13.5 | 5 |
| | TAM100 1) | | | 105 | 28 | 60 | 8 | 31.3 | 265 | 230 | 300 | 16 | 4-Φ13.5 | 5 | | | | | | | | | |
| TR..48 2) TR..58 TR..68 | TAM63 | 1 | 160 | 46 | 11 | 23 | 4 | 12.8 | | | | | | | 115 | 95 | 140 | 10 | 4-Φ 9 | 3.5 | | | |
| | TAM71 | | | 51 | 14 | 30 | 5 | 16.3 | | | | | | | | | | | | | 130 | 110 | 160 |
| | TAM80 | | | 49 | 19 | 40 | 6 | 21.8 | | | | | | | 165 | 130 | 200 | 12 | 4-Φ 11 | 4.5 | | | |
| | TAM90 | | | 59 | 24 | 50 | 8 | 27.3 | | | | | | | | | | | | | | | |
| | TAM100 1) | | | 86 | 28 | 60 | 8 | 31.3 | | | | | | | 265 | 230 | 300 | 16 | 4-Φ13.5 | 5 | | | |
| | TAM112 1) | | | 86 | | | | | | | | | | | | | | | | | | | |
| | TAM132S/M 1) | | | 111 | 38 | 80 | 10 | 41.3 | | | | | | | | | | | | | | | |
| TR..78 | TAM63 | 1 | 200 | 40 | 11 | 23 | 4 | 12.8 | 115 | 95 | 140 | 10 | 4-Φ 9 | 3.5 | | | | | | | | | |
| | TAM71 | | | 45 | 14 | 30 | 5 | 16.3 | | | | | | | | | | | | | 130 | 110 | 160 |
| | TAM80 | | | 59 | 19 | 40 | 6 | 21.8 | 165 | 130 | 200 | 12 | 4-Φ 11 | 4.5 | | | | | | | | | |
| | TAM90 | | | 69 | 24 | 50 | 8 | 27.3 | | | | | | | | | | | | | | | |
| | TAM100 1) | | | 78 | 28 | 60 | 8 | 31.3 | 265 | 230 | 300 | 16 | 4-Φ13.5 | 5 | | | | | | | | | |
| | TAM112 1) | | | 78 | | | | | | | | | | | | | | | | | | | |
| | TAM132S/M 1) | | | 109 | 38 | 80 | 10 | 41.3 | | | | | | | | | | | | | | | |
| | TAM132ML 1) | | | | | | | | | | | | | | | | | | | | | | |

1) 请检查尺寸P/2,它可能突出安装平面。

1) Dimension P/2 may protrude past foot mounting surface, please check.

2) 没有与TAM112的联接。

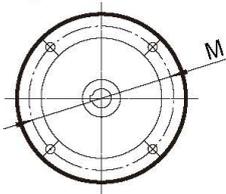
2) not with TAM112.

3) 没有与TAM100的联接。

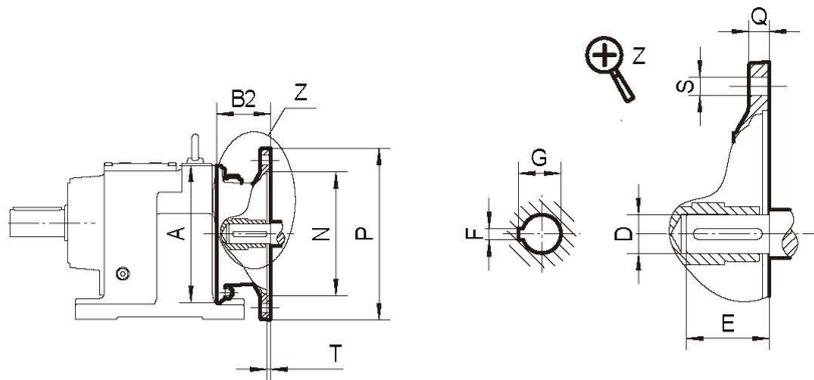
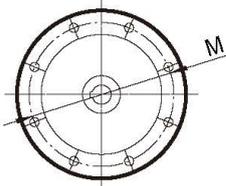
3) not with TAM112.

TR..TAM(IEC)..

法兰1/Flange.1



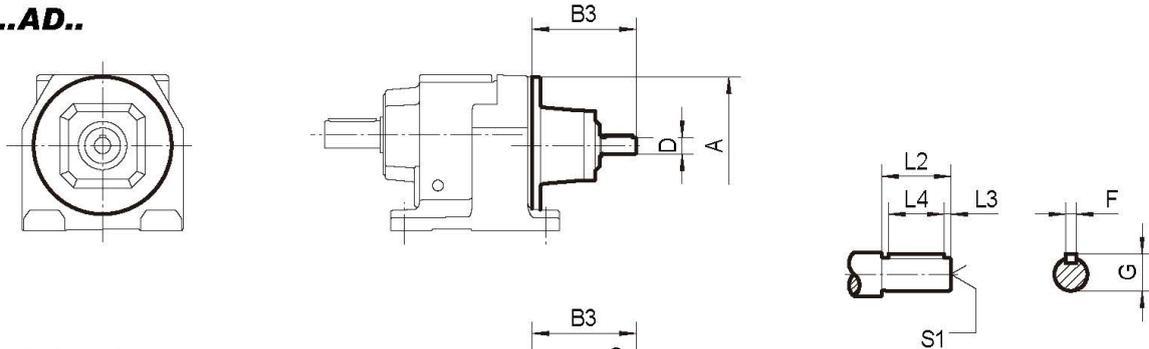
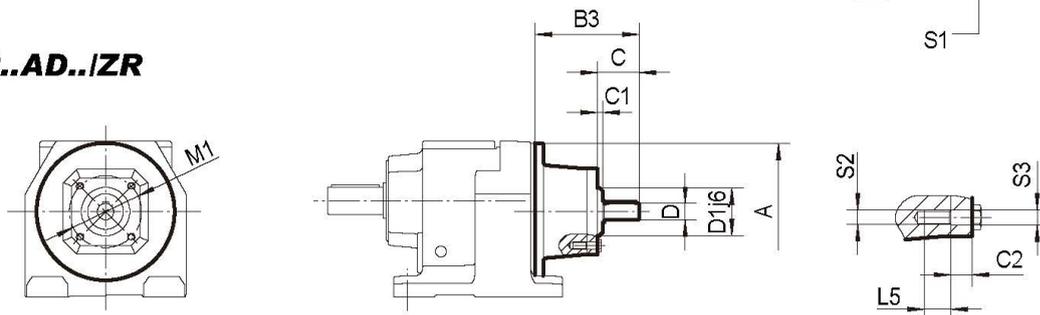
法兰2/Flange.2



| TR.. | TAM.. | Flange. | A | B2 | D | E | F | G | M | N | P | Q | S | T |
|---------|-----------|---------|-----|-----|----|-----|----|------|-----|-----|-----|----|---------|-----|
| TR..88 | TAM80 | 1 | 250 | 54 | 19 | 40 | 6 | 21.8 | 165 | 130 | 200 | 12 | 4-Φ 11 | 4.5 |
| | TAM90 | | | 64 | 24 | 50 | 8 | 27.3 | | | | | | |
| | TAM100 | | | 73 | 28 | 60 | 8 | 31.3 | 215 | 180 | 250 | 15 | 4-Φ13.5 | 5 |
| | TAM112 | | | | | | | | | | | | | |
| | TAM132S/M | | | 104 | 38 | 80 | 10 | 41.3 | 265 | 230 | 300 | 16 | 4-Φ17.5 | 6 |
| | TAM132ML | | | | | | | | | | | | | |
| | TAM160 1) | | | 142 | 42 | 110 | 12 | 45.3 | 300 | 250 | 350 | 18 | 4-Φ17.5 | 6 |
| | TAM180 1) | | | | | | | | | | | | | |
| TR..98 | TAM90 | 1 | 300 | 57 | 24 | 50 | 8 | 27.3 | 165 | 130 | 200 | 12 | 4-Φ11 | 4.5 |
| | TAM100 | | | 78 | 28 | 60 | 8 | 31.3 | | | | | | |
| | TAM112 | | | 78 | | | | | | | | | | |
| | TAM132S/M | | | 99 | 38 | 80 | 10 | 41.3 | 265 | 230 | 300 | 16 | 4-Φ17.5 | 6 |
| | TAM132ML | | | | | | | | | | | | | |
| | TAM160 | | | 137 | 42 | 110 | 12 | 45.3 | 300 | 250 | 350 | 18 | 4-Φ17.5 | 6 |
| | TAM180 | | | | | | | | | | | | | |
| TR..108 | TAM100 | 1 | 350 | 72 | 28 | 60 | 8 | 31.3 | 215 | 180 | 250 | 15 | 4-Φ13.5 | 5 |
| | TAM112 | | | 72 | | | | | | | | | | |
| | TAM132S/M | | | 93 | 38 | 80 | 10 | 41.3 | 265 | 230 | 300 | 16 | 4-Φ17.5 | 6 |
| | TAM132ML | | | | | | | | | | | | | |
| | TAM160 | | | 131 | 42 | 110 | 12 | 45.3 | 300 | 250 | 350 | 18 | 4-Φ17.5 | 6 |
| | TAM180 | | | | | | | | | | | | | |

1) 请检查尺寸P/2,它可能突出安装平面。

1) Dimension P/2 may protrude past foot mounting surface, please check.

7.5 TR.. AD..外形尺寸 / Outline Dimension
TR..AD..
TR..AD..

TR..AD../ZR


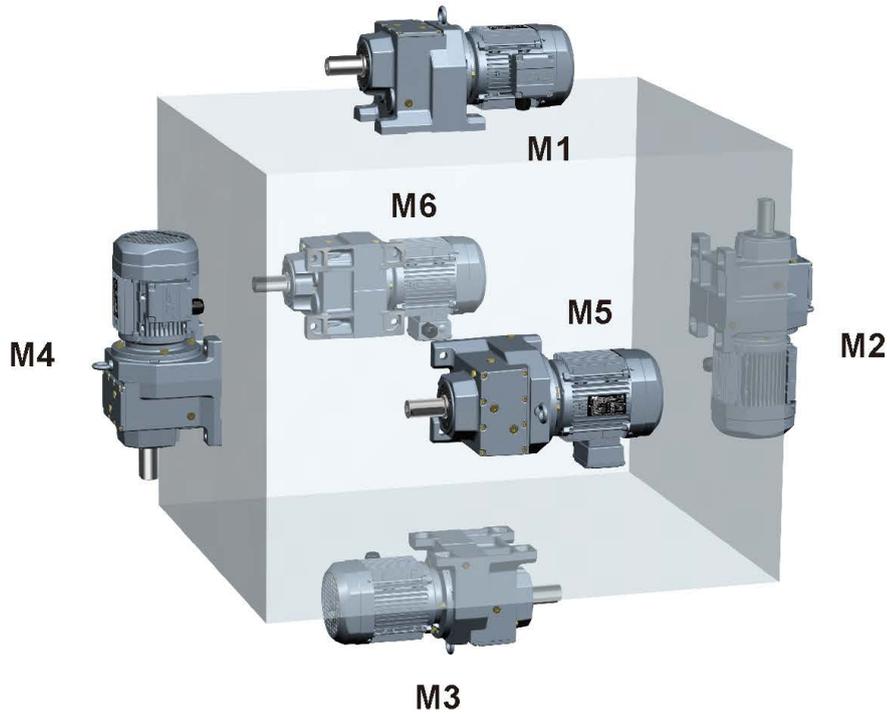
| TR.. | AD.. | A | B3 | C | C1 | C2 | D | D1 | F | G | L2 | L3 | L4 | L5 | M1 | S1 | S2 | S3 |
|---------|-------------|-----|-----|-------|----|------|----|-----|----|------|-----|----|-----|------|-----|---------|-----|------|
| TR..28 | AD1 | 120 | 102 | - | - | - | 16 | - | 5 | 18 | 40 | 4 | 32 | - | - | M5X12.5 | - | - |
| TR..38 | AD2,AD2/ZR | | 130 | 50 | 8 | 13.5 | 19 | 55 | 6 | 21.5 | 40 | 4 | 32 | 12 | 80 | M6X16 | M8 | 9 |
| TR..48 | AD2,AD2/ZR | 160 | 123 | 50 | 8 | 13.5 | 19 | 55 | 6 | 21.5 | 40 | 4 | 32 | 12 | 80 | M6X16 | M8 | 9 |
| TR..58 | AD3,AD3/ZR | | 159 | 60 | 8 | 15.5 | 24 | 70 | 8 | 27 | 50 | 5 | 40 | 16 | 105 | M8X19 | M10 | 11 |
| TR..68 | AD3,AD3/ZR | 200 | 116 | 50 | 8 | 13.5 | 19 | 55 | 6 | 21.5 | 40 | 4 | 32 | 12 | 80 | M6X16 | M8 | 9 |
| TR..78 | AD2,AD2/ZR | | 151 | 60 | 8 | 15.5 | 24 | 70 | 8 | 27 | 50 | 5 | 40 | 16 | 105 | M8X19 | M10 | 11 |
| TR..78 | AD4,AD4/ZR | | 224 | 95.5 | 13 | 16 | 38 | 100 | 10 | 41 | 80 | 5 | 70 | 20 | 130 | M12X28 | M12 | 13.5 |
| TR..88 | AD2,AD2/ZR | 250 | 111 | 50 | 8 | 13.5 | 19 | 55 | 6 | 21.5 | 40 | 4 | 32 | 12 | 80 | M6X16 | M8 | 9 |
| | AD3,AD3/ZR | | 156 | 70 | 8 | 15.5 | 28 | 70 | 8 | 31 | 60 | 5 | 50 | 16 | 105 | M8X19 | M10 | 11 |
| | AD4,AD4/ZR | | 219 | 95.5 | 13 | 16 | 38 | 100 | 10 | 41 | 80 | 5 | 70 | 20 | 130 | M12X28 | M12 | 13.5 |
| | AD5, AD5/ZR | | 292 | 126 | 11 | 24 | 42 | 120 | 12 | 45 | 110 | 10 | 70 | 20 | 180 | M16X36 | M12 | 13.5 |
| TR..98 | AD3,AD3/ZR | 300 | 151 | 70 | 8 | 15.5 | 28 | 70 | 8 | 31 | 60 | 5 | 50 | 16 | 105 | M8X19 | M10 | 11 |
| | AD4,AD4/ZR | | 214 | 95.5 | 13 | 16 | 38 | 100 | 10 | 41 | 80 | 5 | 70 | 20 | 130 | M12X28 | M12 | 13.5 |
| | AD5,AD5/ZR | | 287 | 126 | 11 | 24 | 42 | 120 | 12 | 45 | 110 | 10 | 70 | 20 | 180 | M16X36 | M12 | 13.5 |
| | AD6,AD6/ZR | | 327 | 130.5 | 11 | 22.5 | 48 | 130 | 14 | 51.5 | 110 | 10 | 80 | 26 | 200 | M16X36 | M16 | 17.5 |
| TR..108 | AD3,AD3/ZR | 350 | 145 | 70 | 8 | 15.5 | 28 | 70 | 8 | 31 | 60 | 5 | 50 | 16 | 105 | M8X19 | M10 | 11 |
| | AD4,AD4/ZR | | 208 | 95.5 | 13 | 16 | 38 | 100 | 10 | 41 | 80 | 5 | 70 | 20 | 130 | M12X28 | M12 | 13.5 |
| | AD5,AD5/ZR | | 281 | 126 | 11 | 24 | 42 | 120 | 12 | 45 | 110 | 10 | 70 | 20 | 180 | M16X36 | M12 | 13.5 |
| | AD6,AD6/ZR | | 321 | 130.5 | 11 | 22.5 | 48 | 130 | 14 | 51.5 | 110 | 10 | 80 | 26 | 200 | M16X36 | M16 | 17.5 |
| TR..138 | AD4,AD4/ZR | 400 | 201 | 95.5 | 13 | 16 | 38 | 100 | 10 | 41 | 80 | 5 | 70 | 20 | 130 | M12X28 | M12 | 13.5 |
| | AD5,AD5/ZR | | 274 | 126 | 11 | 24 | 42 | 120 | 12 | 45 | 110 | 10 | 70 | 20 | 180 | M16X36 | M12 | 13.5 |
| | AD6,AD6/ZR | | 314 | 130.5 | 11 | 22.5 | 48 | 130 | 14 | 51.5 | 110 | 10 | 80 | 26 | 200 | M16X36 | M16 | 17.5 |
| | AD7,AD7/ZR | | 308 | 133 | 13 | 19 | 55 | 125 | 16 | 59 | 110 | 10 | 90 | 30 | 190 | M20X42 | M20 | 22 |
| TR..148 | AD4,AD4/ZR | 450 | 193 | 95.5 | 13 | 16 | 38 | 100 | 10 | 41 | 80 | 5 | 70 | 20 | 130 | M12X28 | M12 | 13.5 |
| | AD5,AD5/ZR | | 266 | 126 | 11 | 24 | 42 | 120 | 12 | 45 | 110 | 10 | 70 | 20 | 180 | M16X36 | M12 | 13.5 |
| | AD6,AD6/ZR | | 306 | 130.5 | 11 | 22.5 | 48 | 130 | 14 | 51.5 | 110 | 10 | 80 | 26 | 200 | M16X36 | M16 | 17.5 |
| | AD7,AD7/ZR | | 300 | 133 | 13 | 19 | 55 | 125 | 16 | 59 | 110 | 10 | 90 | 30 | 190 | M20X42 | M20 | 22 |
| | AD8,AD8/ZR | | 383 | 155 | 5 | 22.5 | 70 | 120 | 20 | 74.5 | 140 | 15 | 110 | 19.5 | 210 | M20X42 | M12 | 13.5 |
| TR..168 | AD5,AD5/ZR | 550 | 258 | 126 | 11 | 24 | 42 | 120 | 12 | 45 | 110 | 10 | 70 | 20 | 180 | M16X36 | M12 | 13.5 |
| | AD6,AD6/ZR | | 298 | 130.5 | 11 | 22.5 | 48 | 130 | 14 | 51.5 | 110 | 10 | 80 | 26 | 200 | M16X36 | M16 | 17.5 |
| | AD7,AD7/ZR | | 292 | 133 | 13 | 19 | 55 | 125 | 16 | 59 | 110 | 10 | 90 | 30 | 190 | M20X42 | M20 | 22 |
| | AD8,AD8/ZR | | 374 | 155 | 5 | 22.5 | 70 | 120 | 20 | 74.5 | 140 | 15 | 110 | 19.5 | 210 | M20X42 | M12 | 13.5 |

8. 安装方式 / MOUNTING POSITIONS

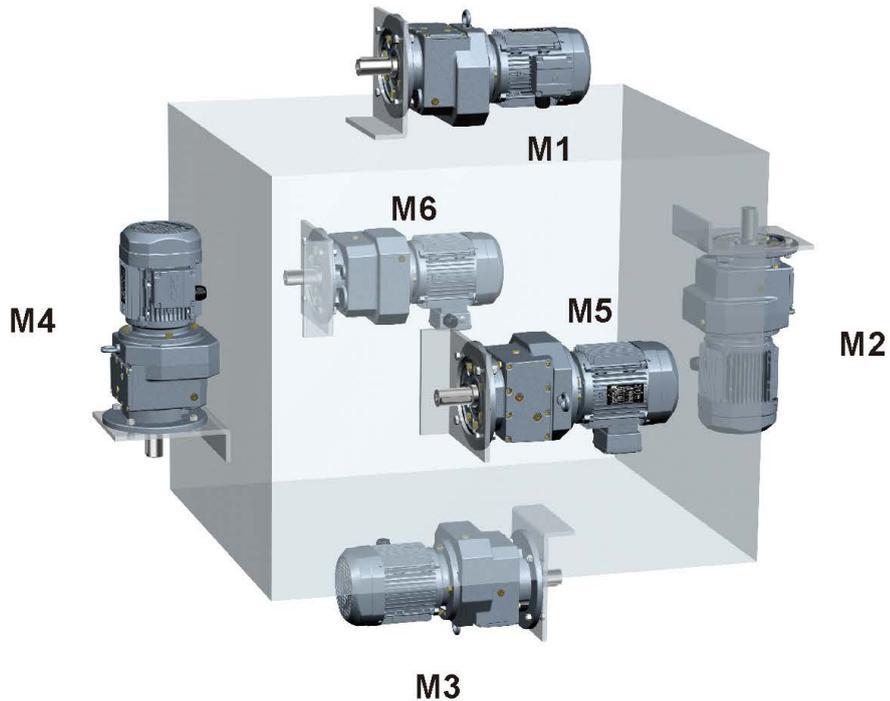
8.1 安装方式示意图 / Mounting position designation

本公司将减速器分类为六种不同的安装方式M1 ~ M6。以下各图描述了安装方式M1 ~ M6中减速电机的安装位置。

Differentiates between six mounting positions M1 ... M6 for gear units. The following figure shows the spatial orientation of the gearmotor in mounting positions M1 ... M6.

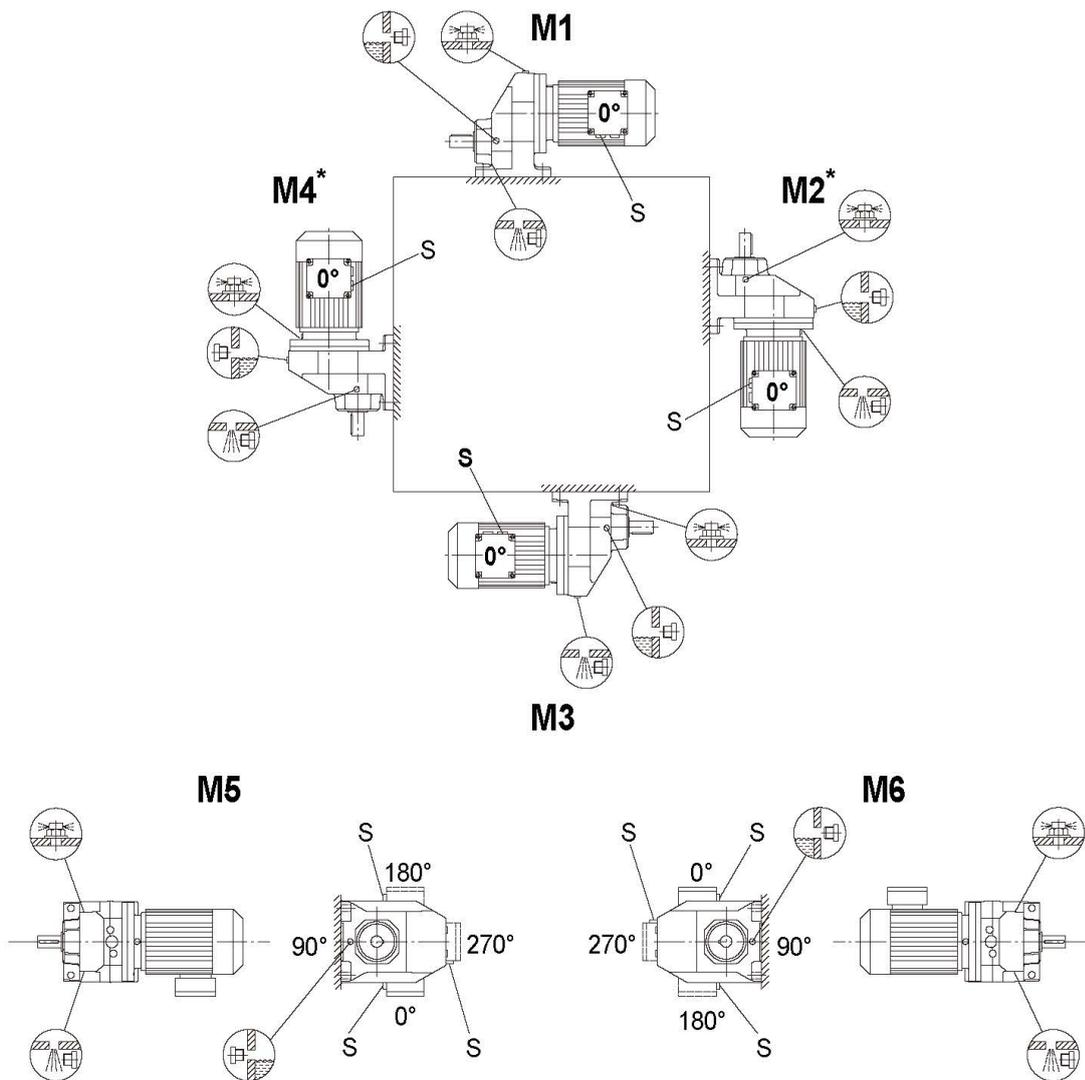
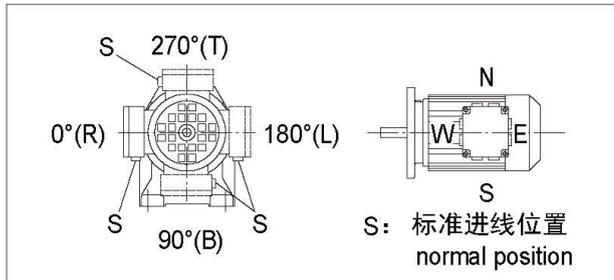


TR..



8.2 TRX.. 斜齿轮减速电机的安装方式
Mounting positions for helical geared motors
TRX58 - TRX108

| 符号 Symbol | 含义 Meaning |
|--------------|-----------------------|
| | 排气阀 Breather valve |
| | 油位塞 Oil level plug |
| | 放油塞 Oil drain plug |

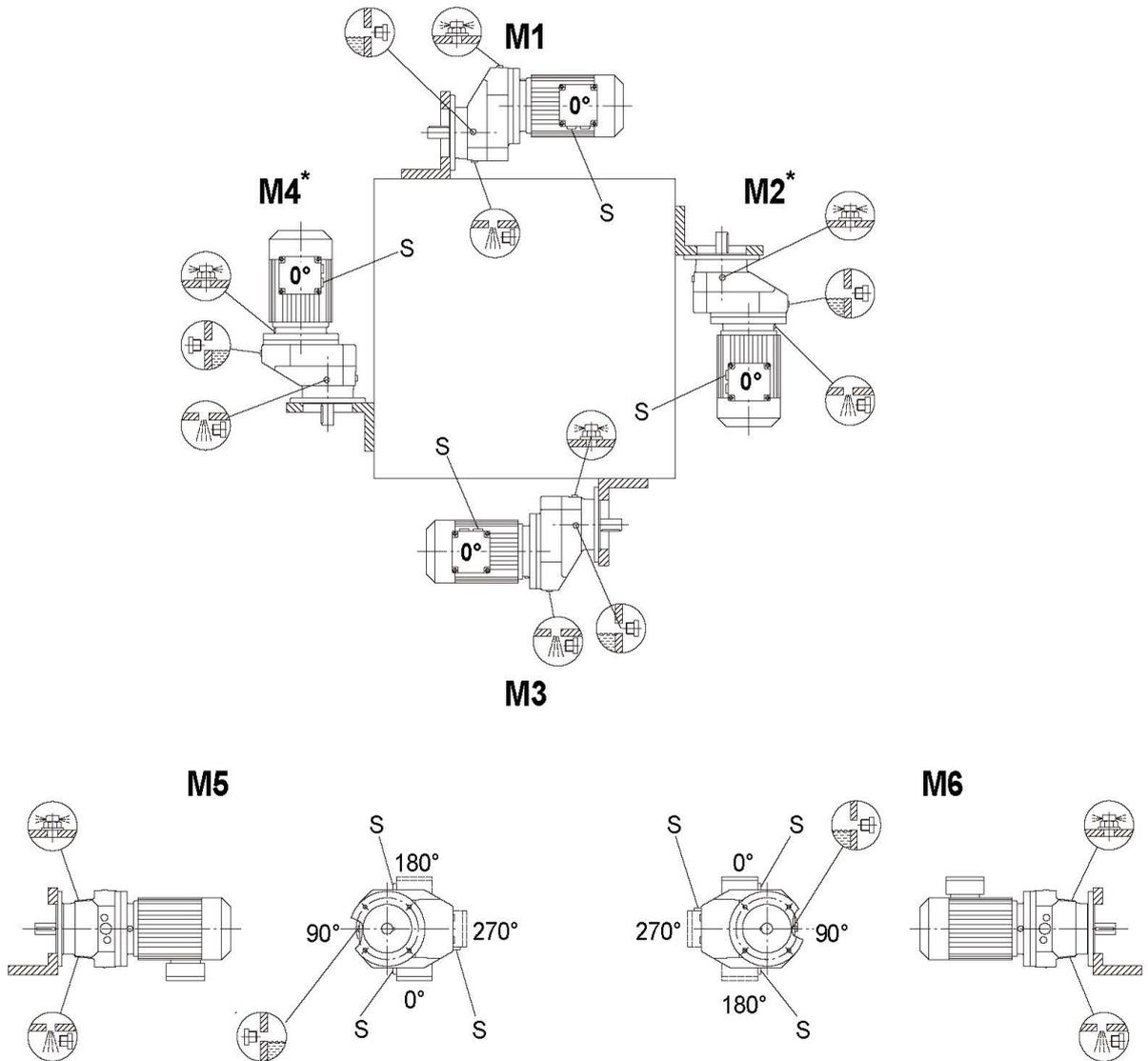
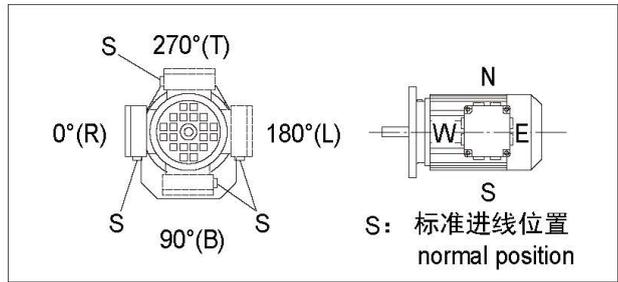


重点: 请参考减速电机样本中的信息 (P8).

Important: Please refer to the information in the 'Geared Motors' catalog, Sec(page 8).

TRXF58 - TRXF108

| 符号 Symbol | 含义 Meaning |
|---|-----------------------|
|  | 排气阀 Breather valve |
|  | 油位塞 Oil level plug |
|  | 放油塞 Oil drain plug |

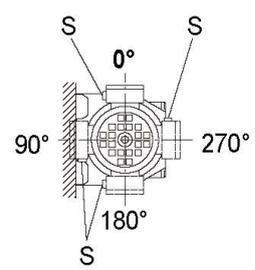
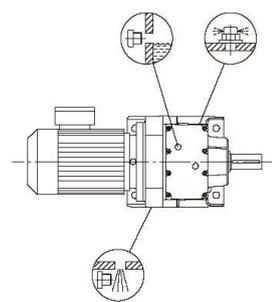
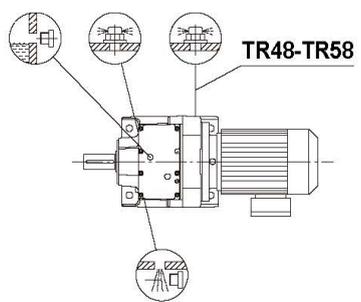
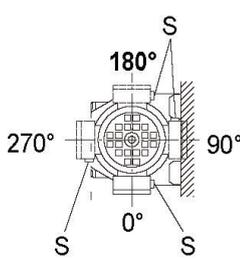
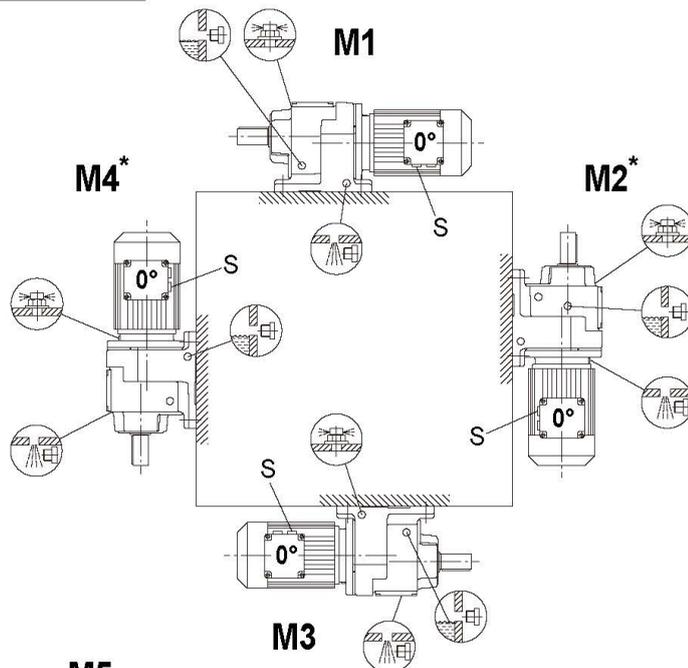
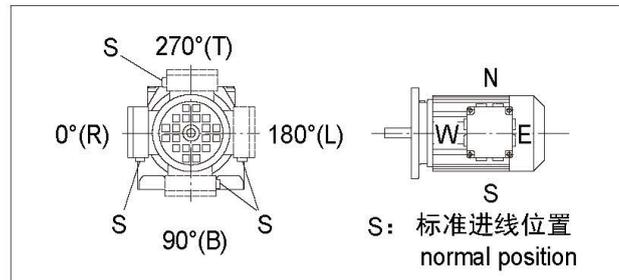


重点: 请参考减速电机样本中的信息  (P8).

Important: Please refer to the  information in the 'Geared Motors' catalog, Sec(page 8).

8.3 TR.. 斜齿轮减速电机的安装方式
Mounting positions for helical geared motors
TR18 - TR168

| 符号 Symbol | 含义 Meaning |
|--------------|-----------------------|
| | 排气阀 Breather valve |
| | 油位塞 Oil level plug |
| | 放油塞 Oil drain plug |



| 安装位置 Mounting position | 齿轮箱规格 Gear unit size | 输入转速 Input speed [1/min] |
|---------------------------|-------------------------|--------------------------------|
| M2*, M4* | 98...108 | >2500 |
| | >108 | >1500 |

| | | |
|-------------------|--|-----------------------|
| TR28 | | M1, M3, M5, M6 |
| TR28 | | |
| TR48, TR58 | | M5 |

上面表格列出的安装方式中溅油功能可能失效, 请您与通宇公司联系。

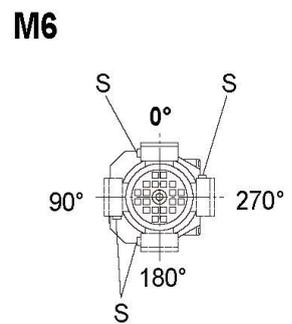
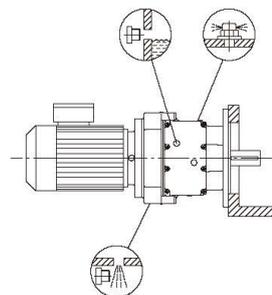
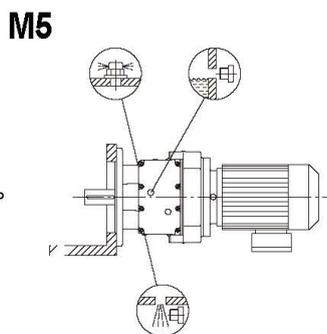
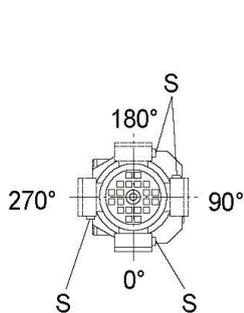
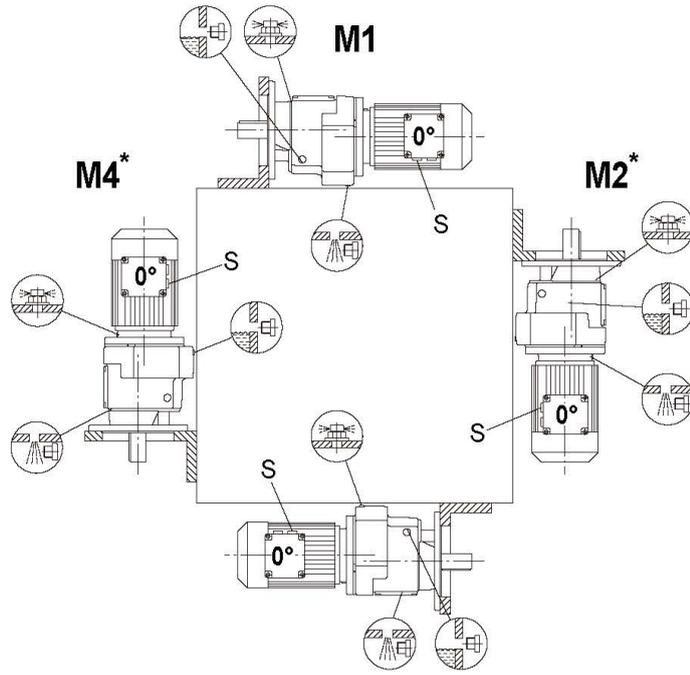
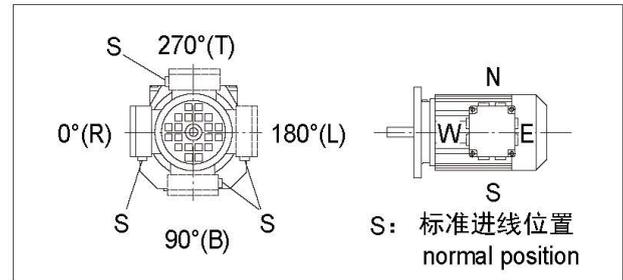
Increased churning losses may arise in some mounting positions. Contact TONGYU TRANSMIT in case of the above-mentioned combinations.

重点: 请参考减速电机样本中的信息 (P8)。

Important: Please refer to the information in the 'Geared Motors' catalog, Sec(page 8).

TRF18 - TRF168

| 符号 Symbol | 含义 Meaning |
|--------------|-----------------------|
| | 排气阀 Breather valve |
| | 油位塞 Oil level plug |
| | 放油塞 Oil drain plug |



| 安装位置 Mounting position | 齿轮箱规格 Gear unit size | 输入转速 Input speed [1/min] |
|---------------------------|-------------------------|--------------------------------|
| M2*, M4* | 98...108 | >2500 |
| | >108 | >1500 |

- TRF28 M1, M3, M5, M6
- TRF28 M2*
- TRF48, TRF58 M5

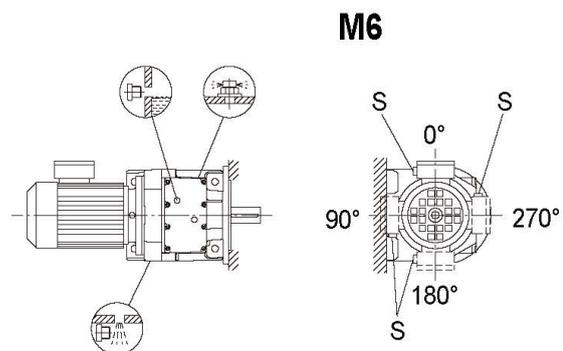
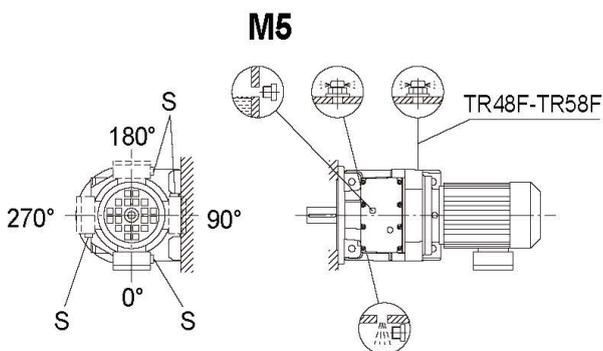
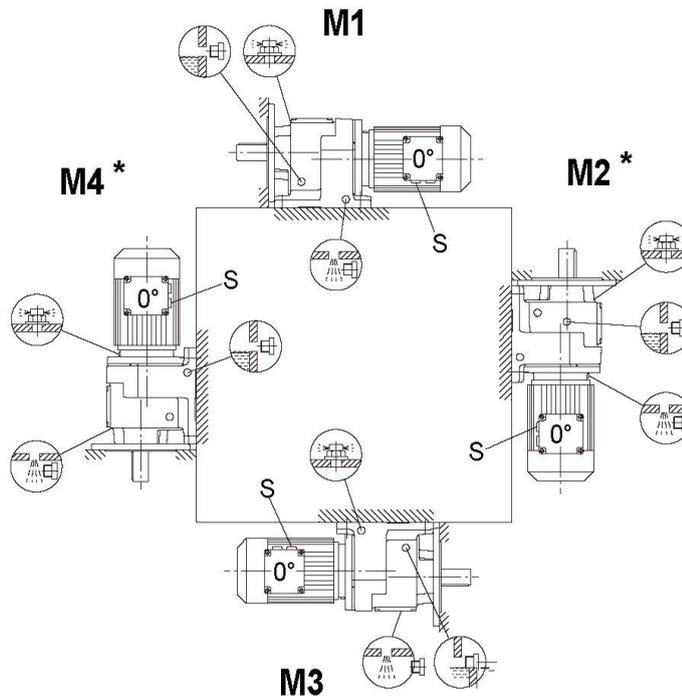
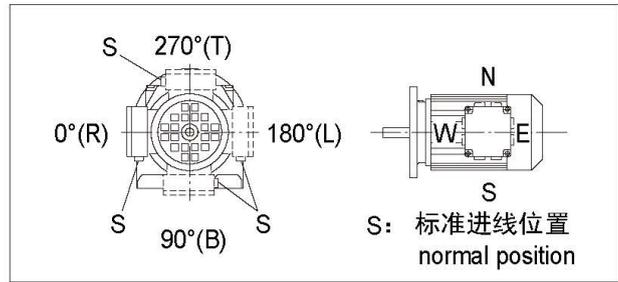
上面表格列出的安装方式中溅油功能可能失效，请您与通宇公司联系。
Increased churning losses may arise in some mounting positions. Contact TONGYU TRANSMIT in case of the above-mentioned combinations.

重点：请参考减速电机样本中的信息 (P8)。

Important: Please refer to the information in the 'Geared Motors' catalog, Sec(page 8).

TR18F - TR88F

| 符号 Symbol | 含义 Meaning |
|--------------|-----------------------|
| | 排气阀 Breather valve |
| | 油位塞 Oil level plug |
| | 放油塞 Oil drain plug |



重点: 请参考减速电机样本中的信息 **i** (P8).

Important: Please refer to the **i** information in the 'Geared Motors' catalog, Sec(page 8).

TR28F M1, M3, M5, M6

TR28F

TR48F, TR58F M5

9. 安装方法

9.1. 安装前准备工作

- a). 检查减速电机铭牌上的规定与电源是否一致。
- b). 检查减速器是否碰伤(没有因运输或者存储而损伤)。
- c). 对于标准减速器,环境温度必须与润滑剂表中相应的润滑剂表相一致。
- d). 动力安装不允许在油、爆炸气体、水蒸汽、酸性腐蚀和放射线环境下进行。
- e). 输出轴和法兰表面必须彻底清除掉防锈剂、污染物或者类似脏物。必须使用常用的溶剂。不得让溶剂进入到轴密封环的密封唇上,否则会损坏材料!
- f). 支承结构必须满足平稳、防震、刚性好,不发生扭曲特性。
- g). 为防止可能破坏齿轮减速器的公差配合,安装在齿轮减速器上的部件必须按照ISOH7所规定的公差加工。

9.2. 减速器的安装

- a). 减速器安装时不要将外壳地脚和安装凸缘交错拧紧,且注意其允许承受的横向拉力和轴向拉力!
- b). 输出轴上安装传动件时,传动件如皮带轮,联轴器,小齿轮等绝对不能使用锤子敲击的方法套装到输出轴轴端上,否则有可能损伤轴承,外壳以及轴。
- c). IEC连接器安装时,拿下电机轴的键并且使用附带提供的短键代替,用螺纹销钉将键和轴套在电机轴上固定好,采用表面密封材料对适配器及电机的接触平面进行密封。
- d). 启动机器之前,检查放油塞是否利于操作,油镜是否利于观察油位,油位与减速器的安装位置是否一致,透气塞方位是否恰当。

9. INSTALLATION METHODS

9.1. Preparation before the installation:

- a). Check if the data on the nameplates of the gearmotor matches the voltage supply system.
- b). Check if the drive has not been damaged during transportation and storage.
- c). For standard gear unit, the ambient temperature must be in accordance with the corresponding lubricant table.
- d). The drive must not be assembled in conditions such as oil, gas, vapors, acids, radiation and so on.
- e). Output shaft and flange surfaces must thoroughly cleaned to ensure they are free of anti-corrosion agents, contamination or similar. Use a commercially available solvent. Do not let the solvent come into contact with the sealing lip of the oil seals, or will damage the material!
- f). The supporting structure must have the following characteristics: level, vibration damping and torsionally rigid.
- g). So as to prevent the tolerance of fit of gear units from damaging, the parts assembled on the gear units must be worked as specified tolerance according to ISOH7.

9.2. the installation of the gear units:

- a). Do not tighten the housing legs and mounting flanges against one another and ensure that you comply with the permitted radial load and axial load.
- b). Never drive belt pulleys, couplings, pinions, etc. onto the shaft end by hitting them with a hammer. This will damage the bearing, housing and the shaft.
- c). When installing the IEC couplings, remove the key from the motor shaft and replace it with the supplied key. Secure key and coupling half using grub screw and tighten to the motor shaft. Seal the contact surface between the adapter and motor using a suitable sealing compound.
- d). Prior to startup, check that if the oil level is as specified for the mounting position. if the oil checking and drain screw and the breather valves are free accessible.

10. 润滑油 / LUBRICATION

10.1 概述

如果没有特殊要求，本公司所提供的减速器均按商定的安装方式的加注了润滑油，所以您在订货时需要指定与安装方式相关的参数 (M1~ M6，→ “安装方式及重要的订货提供参数” 章节)。在后期调整安装方式时，您必须根据改变后的安装方式相应地调节注油量 (→ 润滑油注入量)。

10.2 滚动轴承润滑脂

减速器和电动机的滚动轴承在出厂时就加注了润滑脂。对于配有润滑油加注装置的滚动轴承，建议在更换机油时也更换润滑脂。下列润滑脂更换时参考：

| | 环境温度 | 制造厂家 | 型 号 | 润滑油类型 |
|---------|---------------|-------|----------------------|-------|
| 减速器滚动轴承 | -20°C ~ +60°C | Mobil | Mobilux EP 2 | 矿物油 |
| | -40°C ~ +80°C | Mobil | Mobiltemp SHC 100 | 合成油 |
| 电机滚动轴承 | -20°C ~ +80°C | Esso | Unirex EQ3 | 矿物油 |
| | -20°C ~ +60°C | Shell | Alvania RL3 | 矿物油 |
| | -45°C ~ .25°C | Shell | Aero Shell Grease 16 | 合成油 |

需要下列润滑脂加注量：

- 如果是高速运转的轴承 (电动机和减速器输入端)：轴承腔中加入三分之一的润滑脂。
- 如果是低速运转的轴承 (减速器中和减速器输出端)：轴承腔中加入三分之二的润滑脂。

10.1 General information

Unless a special arrangement is made, TONGYU supplies the drives with a lubricant fill adapted for the specific gear unit and mounting position. The decisive factor is the mounting position (M1 ... M6, → Sec. "Mounting Positions and Important Order Information") specified when ordering the drive. You must adapt the lubricant fill in case of any subsequent changes made to the mounting position (→ Lubricant fill quantities).

10.2 Anti-friction bearing greases

The lubricant table on the following page shows the permitted lubricants for TONGYU gear units. Please note the following key to the lubricant table:

The following grease quantities are required:

- For fast-running bearings (motor and gear unit input end): Fill the cavities between the rolling elements one third full with grease.
- For slow-running bearings (in gear units and at gear unit output end): Fill the cavities between the rolling elements two thirds full with grease.

10.3 润滑油型号 / Types of lubrication

| | | | | | | 润滑油类型 lubrication type |
|-------------|-----------------------------|-------------------|---------------------------|---------------------------|-------------------------|---------------------------|
| TR.. | 标准 Standard -10 +40 | VG 220 | Shell Omala S2 G220 | Mobilgear 600 XP 220 | BP Energol GR-XP 220 | 矿物油 Mineral oil |
| | -20 +25 | VG 150 VG 100 | Shell Omala S2 G100 | Mobilgear 600 XP 100 | BP Energol GR-XP 100 | |
| | -30 +10 | VG 68-46 VG 32 | Shell Tellus S2 V32 | Mobil DTE 10 Excel™ 32 | | |
| | -40 -20 | VG 22 VG 15 | Shell Tellus S2 V15 | Mobil DTE 10 Excel™ 15 | BP Energol HLP-HM 15 | |
| | -40 +80 | VG 220 | Shell Omala S4 GX220 | Mobil SHC 630 | | 合成油 Synthetic oil |
| | -40 +40 | VG 150 | Shell Omala S4 GX150 | Mobil SHC 629 | | |
| | -40 +10 | VG 32 | Shell Omala S4 ATF HDX | Mobil SHC 624 | | |

10.4 润滑油加注量

规定的加注量为参考值。精确值的变化与级数和传动比有关。请您在加注润滑油时一定要注 意油位螺栓所指示的精确油量。后期调整安装方式时，您必须根据改变后的安装方式相应调整加注润滑剂。下表中列出了安装方式M1 ~ M6的减 速器相应的标准参考润滑油注入量值。

10.4 Lubricant fill quantity

The specified fill quantities are recom- mended values. The precise values vary depending on the number of stages and gear ratio. When filling, it is essential to check the oil level plug since it indicates the precise oil capac- ity. The following tables show guide values for lubricant fill quantities in relation to the mounting position M1 ~ M6.

TRX..:

| 减速器型号 Gear units | 加注量 Fill quantity in liters | | | | | | 单位:升(L) |
|---------------------|-----------------------------|------|-------|-------|------|------|---------|
| | M1** | M2** | M3 | M4 | M5 | M6 | |
| TRX58 | 0.60 | 0.80 | 1.30 | 1.30 | 0.90 | 0.90 | |
| TRX68 | 0.80 | 0.80 | 1.70 | 1.90 | 1.10 | 1.10 | |
| TRX78 | 1.10 | 1.50 | 2.60 | 2.70 | 1.60 | 1.60 | |
| TRX88 | 1.70 | 2.50 | 4.80 | 4.80 | 2.90 | 2.90 | |
| TRX98 | 2.10 | 3.40 | 7.40 | 7.00 | 4.80 | 4.80 | |
| TRX108 | 3.90 | 5.60 | 11.60 | 11.90 | 7.70 | 7.70 | |

** 在双组合或多组合减速器中，对较大的减速器必须加注较多的润滑油油量。

** The large gear unit of multi-stage gear units must be filled with the larger oil volume.

TRXF..B:

| 减速器型号 Gear units | 加注量 Fill quantity in liters | | | | | | 单位:升(L) |
|---------------------|-----------------------------|------|-------|------|------|------|---------|
| | M1** | M2** | M3 | M4 | M5 | M6 | |
| TRXF58 | 0.50 | 0.80 | 1.10 | 1.10 | 0.70 | 0.70 | |
| TRXF68 | 0.70 | 0.80 | 1.50 | 1.40 | 1.00 | 1.00 | |
| TRXF78 | 0.90 | 1.30 | 2.40 | 2.00 | 1.60 | 1.60 | |
| TRXF88 | 1.60 | 1.95 | 4.90 | 3.95 | 2.90 | 2.90 | |
| TRXF98 | 2.10 | 3.70 | 7.10 | 6.30 | 4.80 | 4.80 | |
| TRXF108 | 3.10 | 5.70 | 11.20 | 9.30 | 7.20 | 7.20 | |

** 在双组合或多组合减速器中，对较大的减速器必须加注较多的润滑油油量。

** The large gear unit of multi-stage gear units must be filled with the larger oil volume.

TR../TR..F:

| 减速器型号 Gear units | 加注量 Fill quantity in liters | | | | | | 单位:升(L) |
|---------------------|-----------------------------|-----------|-------|-------|-------|-------|---------|
| | M1** | M2** | M3 | M4 | M5 | M6 | |
| TR28/TR28F | 0.25/0.40 | 0.70 | 0.50 | 0.70 | 0.50 | 0.50 | |
| TR38/TR38F | 0.30/0.95 | 0.85 | 0.95 | 1.05 | 0.75 | 0.95 | |
| TR48/TR48F | 0.70/1.50 | 1.60 | 1.50 | 1.65 | 1.50 | 1.50 | |
| TR58/TR58F | 0.80/1.70 | 1.90 | 1.70 | 2.10 | 1.70 | 1.70 | |
| TR68/TR68F | 1.10/2.30 | 2.60/3.50 | 2.80 | 3.20 | 1.80 | 2.00 | |
| TR78/TR78F | 1.20/3.00 | 3.80/4.10 | 3.60 | 4.10 | 2.50 | 3.40 | |
| TR88/TR88F | 2.30/6.0 | 6.7/8.2 | 7.20 | 7.70 | 6.30 | 6.50 | |
| TR98 | 4.60/9.8 | 11.7/14.0 | 11.70 | 13.40 | 11.30 | 11.70 | |
| TR108 | 6.0/13.7 | 16.30 | 16.90 | 19.20 | 13.20 | 15.90 | |
| TR138 | 10.0/25.0 | 28.00 | 29.50 | 31.50 | 25.00 | 25.00 | |
| TR148 | 15.4/40.0 | 46.50 | 48.00 | 52.00 | 39.50 | 41.00 | |
| TR168 | 27.0/70.0 | 82.00 | 78.00 | 88.00 | 66.00 | 69.00 | |

TRF../TRZ:

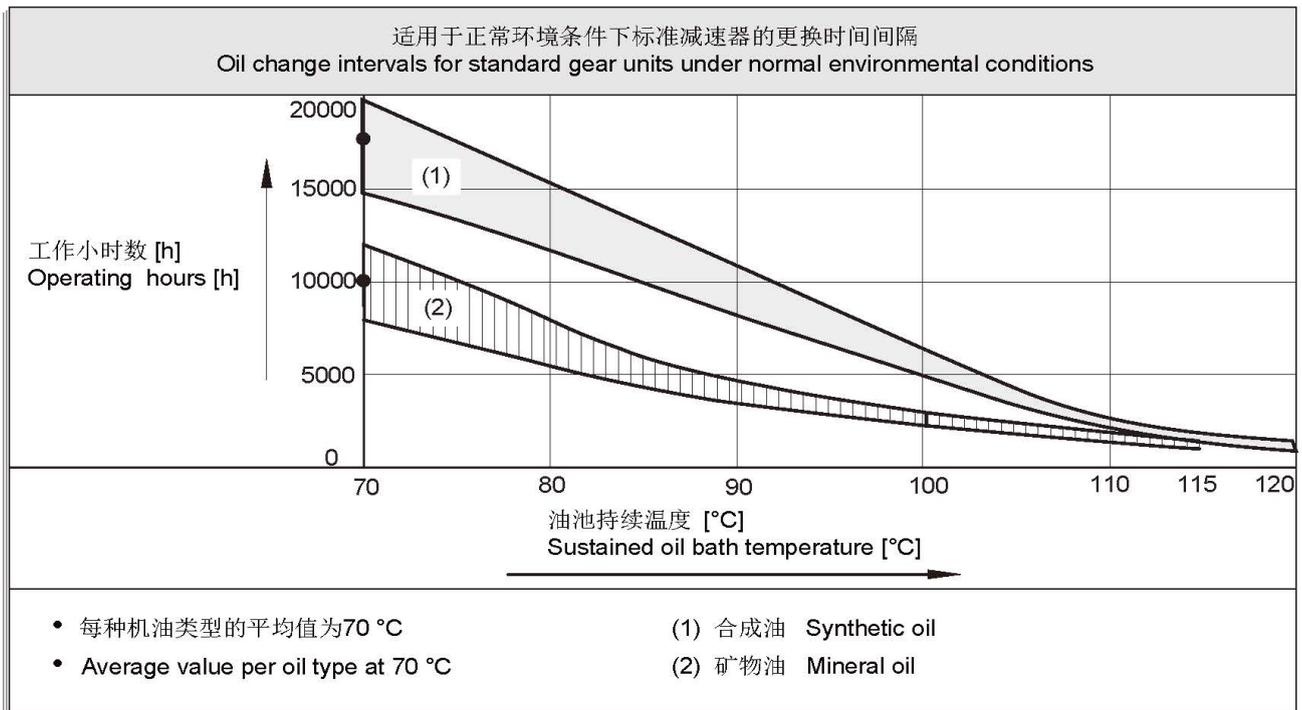
| 减速器型号 Gear units | 加注量 Fill quantity in liters | | | | | | 单位:升(L) |
|---------------------|-----------------------------|-----------|-------|-------|-------|-------|---------|
| | M1** | M2** | M3 | M4 | M5 | M6 | |
| TRF/TRZ28 | 0.25/0.40 | 0.70 | 0.50 | 0.70 | 0.50 | 0.50 | |
| TRF/TRZ38 | 0.35/0.95 | 0.90 | 0.95 | 1.05 | 0.75 | 0.95 | |
| TRF/TRZ48 | 0.65/1.50 | 1.60 | 1.50 | 1.65 | 1.50 | 1.50 | |
| TRF/TRZ58 | 0.80/1.70 | 1.80 | 1.70 | 2.00 | 1.70 | 1.70 | |
| TRF/TRZ68 | 1.20/2.50 | 2.70/3.60 | 2.70 | 2.60 | 1.90 | 2.10 | |
| TRF/TRZ78 | 1.20/2.60 | 3.80/4.10 | 3.30 | 4.10 | 2.40 | 3.00 | |
| TRF/TRZ88 | 2.40/6.0 | 6.8/7.9 | 7.10 | 7.70 | 6.30 | 6.40 | |
| TRF98 | 5.1/10.2 | 11.9/14.0 | 11.20 | 14.00 | 11.20 | 11.80 | |
| TRF108 | 6.3/14.9 | 15.90 | 17.00 | 19.20 | 13.10 | 15.90 | |
| TRF138 | 9.5/25.0 | 27.00 | 29.00 | 32.50 | 25.00 | 25.00 | |
| TRF148 | 16.4/42.0 | 47.00 | 48.00 | 52.00 | 42.00 | 42.00 | |
| TRF168 | 26.0/70.0 | 82.00 | 78.00 | 88.00 | 65.00 | 71.00 | |

11. 维护

- 1). 对于齿轮箱，首次换油必须在工作大约300小时（齿轮磨合期）后进行，在换油时应使用合适的清洗剂小心地冲洗齿轮箱，不得将矿物油和合成油混合。
- 2). 每 3000 工作小时，最低程度半年，应检测油以及油位，油封密封不严引起滴漏的常规检测，若是IEC输入的减速器，则检测检查弹性体，必要时进行更换。
- 3). 根据不同的工作条件（见下图）而定，最长每三年检测一次，更换矿物油，更换轴承润滑油脂。
- 4). 根据不同的工作条件而定，更换输出轴上的油封。
- 5). 产品出现故障时，不要拆卸部件，与本公司售后服务部门联系（需提供减速器规格、出厂日期、编号、已使用时间、主机名称、主机生产单位和故障类型）后，再采取合理的措施。

11. MAINTENANCE

- 1). For gear units, first oil change should be after about 300 hours (run-in period). The right lotion is required to clean the gear units with care. Never mix the synthetic oil and mineral oil together.
- 2). Every 3000 working time, at least every 6 months, you have to check the oil and oil level, the seals visually for leakage. For IEC input gear units, the elastomer should be tested or replaced if necessary.
- 3). Depending on the operating conditions (see chart below), every 3 years at the latest for inspection is needed. Then change the mineral oil and replace the bearing grease.
- 4). Depending on the operating conditions, change the oil seals on output shaft.
- 5). Once the malfunctions appear, stop disassembling the parts, and firstly please contact the customer service (the information about specification, delivery date, series number, time used, name of machine, machine manufacturer, malfunction problems is required) , then take the reasonable measures.



12. 存放

- 1). 有顶棚，防雨雪，无振动。
- 2). 在设备和地面之间垫放木块或其他材料。
- 3). 开箱后暂不使用的齿轮减速器在其加工表面涂上防锈油，并应及时放回包装箱内。
- 4). 在定期检查的情况下，两年以及更长时间。在进行检查时，应检查清洁度和机械损伤，检查防锈层是否完好。

13. 定货须知

减速器定单请向我们提供以下信息：

- 1). 减速器型号标记（减速器类型、速比、功率和安装方式）。
- 2). 减速器表面喷涂颜色，有兰色和灰色两种供选择，一般按灰色提供。
- 3). 订购数量。
- 4). 其他特殊要求。
- 5). 单位名称、联系人、联系电话。

12. STORAGE

- 1). Under roof, protected against rain and snow, no shock loads.
- 2). Underlay the block and other material between the ground and equipment.
- 3). The opened but not used gear units should be added with the anti-corrosive oil on its surface, and then return to the packing containers timely.
- 4). Two years or more given regular inspections. Check for cleanliness and mechanical damage as part of the inspection, Check corrosion protection.

13. NOTICE FOR ORDER

Please offer the following information when place the orders:

- 1). the model mark of the gear units(type, ratio, power and mounting position).
- 2). gear units are available with "blue/gray" painting optionally. Unless specified, it offers the blue painting as standard.
- 3). quantity ordered.
- 4). other special requirements.
- 5). company, contact and telephone.

14. 运转故障 / MALFUNCTIONS

14.1 减速器故障 / Gear unit malfunctions

| 故障 | 可能的原因 | 解决办法 |
|---|--|---|
| 异常、均匀的运转噪声。 | A. 滚动/ 碾压噪声：轴承损坏。 B. 冲击型噪声：齿轮啮合不均匀 | A. 检测润滑油，更换轴承。 B. 请向客户服务部咨询。 |
| 异常、不均匀的运转噪声。 | 机油中有异物。 | <ul style="list-style-type: none"> 检测润滑。 停止运转传动装置，向客户服务部咨询。 |
| 机油泄漏 1)。 <ul style="list-style-type: none"> 在减速器盖上。 在电机凸缘上。 在电机轴密封圈上。 在减速器凸缘上。 在输出端轴密封圈上。 | A. 减速器底座上的橡胶密封发生渗漏。 B. 密封圈损坏。 C. 减速器没有排气。 | A. 拧紧各个外盖上的螺钉并且观察减速器。如果机油继续泄露，请向客户服务部咨询。 B. 请向客户服务部咨询。 C. 给减速器排气（参见“安装方式”）。 |
| 机油从排气阀旁渗出。 | A. 机油太多。 B. 传动装置安装方式错误。 C. 频繁冷起动（机油起泡沫）和/ 或者较高的油位。 | A. 修正油量（参见“润滑油”）。 B. 正确安装排气阀并且矫正油位（参见“安装方式”）。 |
| 尽管电机在运转或者传动轴已经被驱动，但是传动轴不转动。 | 减速器中的轴轮毂联接断裂。 | 将减速器或减速电机送修。 |

1) 在磨合试运转阶段（24 小时的运转时间内），轴密封圈有可能出现短期内的漏油/ 油脂的现象。

| Problem | Possible cause | Remedy |
|---|--|--|
| Unusual, regular running noise | A. Meshing/grinding noise: Bearing damage. B. Knocking noise: Irregularity in the gearing | A. Check the oil, change bearings B. Contact customer service |
| Unusual, irregular running noise | Foreign bodies in the oil | <ul style="list-style-type: none"> Check the oil Stop the drive, contact customer service |
| Oil leaking 1) <ul style="list-style-type: none"> From the gear cover plate From the motor flange From the motor oil seal From the gear unit flange From the output end oil sea | A. Rubber seal on the gear cover plate leaking B. Seal defective C. Gear unit not vented | A. Tighten the bolts on the gear cover plate and observe the gear unit. Oil still leaking: Contact customer service B. Contact customer service C. Vent the gear unit (see "Mounting Positions") |
| Oil leaking from breaking valve | A. Too much oil B. Drive operated in incorrect mounting position C. Frequent cold starts(oil foams) and/or high oillevel | A. Correct the oil level (see Sec. "Inspection and Maintenance") B. Mount the breather valve correctly (see Sec."Mounting Positions")and correct the oil level(see"Lubricants") |
| Output shaft does not turn although the motor is running or the input shaft is rotated | Connection between shaft and hub in gear unit interrupted | Send in the gear unit/gearmotor for repair |

1) Short-term oil/grease leakage at the oil seal is possible in the run-in phase (24 hours running time).

14.2 IEC连接器运转故障 / IEC couplings malfunctions

| 故障 | 可能的原因 | 解决办法 |
|-----------------------------|--|----------------------|
| 异常、均匀的运转噪声。 | 滚动 / 碾压噪声；轴承损坏。 | 与我公司客户服务部联系。 |
| 机油泄漏。 | 密封圈损坏。 | 与我公司客户服务部联系。 |
| 尽管电机在运转或者传动轴已经被驱动，但是传动轴不转动。 | 减速器中的轴轮毂或适配器联接断裂。 | 将减速器发送到我公司进行维修。 |
| 运转时的噪声发生变化以及/或者出现不正常的震动。 | A. 齿圈磨损，因为通过金属直接接触进行短期转动扭矩的传输造成。 B. 轴向轮毂连接螺栓松动。 | A. 更换齿圈。 B. 拧紧螺栓。 |
| 过早的齿圈磨损。 | A. 接触腐蚀性流体或油；臭氧的侵蚀影响，工作环境温度过高等等，都导致齿圈发生规格的改变。 B. 对于齿圈，不允许过高的环境温度以及接触区域温度过高；最大的温度允许范围为-20 °C 到 +80 °C。 C. 负载过载。 | 与我公司客户服务部联系。 |

| Problem | Possible cause | Remedy |
|--|---|--|
| Unusual, regular running noise | Meshing/grinding noise: Bearing damage | Contact our company customer service |
| Oil leaking | Seal defective | Contact our company customer service |
| Output shaft does not turn although the motor is running or the input shaft is rotated | Connection between shaft and hub in gear unit interrupted | Send the gear unit to our company for repair. |
| Change in running noise and / or vibrations occur | A. Annular gear wear, short-term torque transfer through metal contact B. Bolts to secure hub axially are loose. | A. Change the annular gear B. Tighten the bolts |
| Premature wear in annular gear | A. Contact with aggressive fluids / oil; ozone influence; too high ambient temperatures etc, which can cause a change in the physical properties of the annular gear. B. Impermissibly high ambient/contact temperature for the annular gear; maximum permitted temperature -20 °C to +80 °C. C. Overload | Contact our company customer service |

15. 减速器负载特征表(参考件) / Charge Characteristic Chart (for reference)

| | | | |
|---|---|--|---|
| 风机类 AIR BLOWERS | | 卷扬机齿轮传动装置 Hoist gear assembly | A |
| 风机(轴向和径向) Air blower(axial or radial) | A | 吊杆起落齿轮传动装置 Derrick gear assembly | B |
| 冷却塔风扇 Fan of cooling tower | B | 转向齿轮传动装置 Steering gear assembly | B |
| 引风机 Induced draught fan | B | 行走齿轮传动装置 Moving gear assembly | C |
| 螺旋活塞式风机 Rotary piston type fan | B | 挖泥机类 LAND DREDGER | |
| 蜗轮式风机 Turbo-fan | A | 筒式输送机 Drum-type conveyer | C |
| 建筑机械类 CONSTRUCTION MACHINERY | | 筒式转动机 Drum-type rotation wheel | C |
| 混凝土搅拌机 Concrete mixer | B | 挖泥头 Dredger head | C |
| 卷扬机 Hoist | B | 机动绞车 Powered crab | B |
| 路面建筑机械 Road building machinery | B | 泵 Pump | B |
| 钻孔机 Boring mill | B | 泵转向齿轮传动装置 Pump turning gear assembly | B |
| 化工机械类 CHEMICAL MACHINERY | | 行走齿轮传动装置(履带)Moving gear assembly (apron wheel) | C |
| 搅拌机(液体) Mixer (liquid) | A | 行走齿轮传动装置(铁轨) Moving gear assembly (track) | B |
| 搅拌机(半液体) Mixer (half liquid) | B | 食品工业机械类 FOODSTUFF PROCESSING MACHINERY | |
| 离心机(重型) Centrifuge (heavy) | B | 灌注及装箱机器 Placer or box filler | A |
| 离心机(轻型) Centrifuge(light) | A | 甘蔗压榨机 Cane crusher | A |
| 冷却滚筒** Cooling rolling drum | B | 甘蔗切断机** Cane cutter | B |
| 干燥滚筒** Dry rolling drum | B | 甘蔗粉碎机** Cane crusher | C |
| 搅拌机 Mixer | B | 搅拌机 Mixer | B |
| 压缩机类 COMPRESSOR | | 酱状物吊筒 Paste bucket | B |
| 活塞式压缩机 Piston type compressor | C | 包装机 Packager | A |
| 涡轮式压缩机 Turbo-compressor | B | 糖甜菜切断机 Beet slicer | B |
| 传送运输机类 TRANSMISSION FREIGHTER | | 糖和甜菜清洗机 Beet washing machine | B |
| 平板输送机 Pan conveyer | B | 发动机及转换器类 MOTOR AND CONVERSION EQUIPMENTS | |
| 平衡块升降机 Balance lifter | B | 频率转换器 Frequency converter | C |
| 槽式输送机 Trough conveyer | B | 发动机 Motor | C |
| 带式输送机(大件) Ribbon conveyer (large piece) | C | 焊接发动机 Welding motor | C |
| 带式输送机(碎料) Ribbon conveyer (small piece) | B | 洗衣机类 WASHING MACHINE | |
| 筒式面粉输送机 Drum-type flour conveyer | A | 滚筒 Rolling drum | B |
| 链式输送机 Chain conveyer | B | 洗衣机 Washing machine | B |
| 环式输送机 Ring type conveyer | B | 金属滚轧机类 METAL ROLLER MACHINE | |
| 货物升降机 Lifter | B | 钢坯剪断机** Steel cutter | C |
| 卷扬机 Hoist | B | 链式输送机** Chain conveyer | B |
| 连杆式输送机 Crank-connecting conveyer | B | 冷轧机** Cold mill | C |
| 载入升降机 Lifter | B | 连铸成套设备 Continuous casting equipments | B |
| 螺旋式输送机 Worm conveyer | B | 冷床** Cold bed | B |
| 钢带式输送机 Steel-band conveyer | B | 剪料机头** Cropper | C |
| 链式槽型输送机 Chain reed-type conveyer | B | 交叉转弯输送机** Cross steering transmitter | B |
| 绞车运输机 Crab freighter | B | 除锈机** Deruster | C |
| 起重机械类 HOIST | | 重型和中型板轧机** Heavy and medium steel mill | C |
| 转臂式起重传动齿轮装置 Bracket swing gear assembly | B | 棒坯切轧机** Bar mill | C |

| | | | |
|---|---|--|---|
| 捧坯转运机类 BAR TRANSMISSION EQUIPMENTS | B | 泵类 PUMPS | |
| 捧坯推料机 Bar pusher | B | 离心泵(稀液体) Centrifugal pump (thin liquid) | A |
| 推床 Push bed | B | 离心泵(半液体) Centrifugal pump (half liquid) | B |
| 剪板机** Shears | C | 活塞泵 Displacement pump | C |
| 板材摆升降台** Lumber elevator platform | B | 柱塞泵 Plunger pump | C |
| 轧辊调整装置 ROLL ADJUSTING EQUIPMENTS | B | 压力泵 Force pump | C |
| 辊式矫直机 Roller leveling machine | B | 塑料机械类 PLASTIC EQUIPMENTS | |
| 轧钢机辊道(重型)** Mill rolling way (heavy) | C | 压光机** Glazing press | B |
| 轧钢机辊道(轻型)** Mill rolling way (light) | B | 挤压机** Ejecting press | B |
| 薄板轧机** Sheet rolling mill | C | 螺旋压出机** Spiral extruding machine | B |
| 修整剪切机** Trimming shears | B | 混合机** Mixing machine | B |
| 焊管机 Pipe welder | C | 橡胶机械类 RUBBER EQUIPMENT | |
| 焊管机(带材和线材)Soldering machine(belt material and wire rod) | B | 压光机** Glazing press | B |
| 线材拉拔机 Wire drawbench | B | 挤压机** Ejecting press | C |
| 金属加工机床类 METAL PROCESSING MACHINE TOOLS | | 混合搅拌机** Mixing stir machine | B |
| 动力轴 Power shaft | A | 捏合机 Kneading machine | B |
| 锻造机** Forging machine | C | 滚压机** Roller machine | C |
| 锻锤 Drop hammer | C | 石料、瓷土料加工机械类 | |
| 机床及附助装置 Machine tool and necessary | A | STONE PORCELAIN CLAY PROCESSING EQUIPMENTS | |
| 机床及主要传动装置 Machine tool and main driving equipment | B | 球磨机 Ball crusher | B |
| 金属刨床 Metal facing machine | C | 挤压料碎机** Ejecting press and breaker | C |
| 板材矫直机床 Plate-leveling machine tool | C | 破碎机 Breaker | C |
| 冲床 Backing-out punch | C | 压砖机 Brick press | C |
| 冲压机床 Press machine tool | C | 锤料碎机** Beating crusher | C |
| 剪床 Cutting machine | B | 转炉** Converter | C |
| 薄板弯曲机床 Sheet bending machine tool | B | 筒型磨机** Cylinder mill | C |
| 石油工业机械类 PETROLEUM PROCESSING MACHINERY | | 纺织机械类 TEXTILE MACHINERY | |
| 输油管油泵** Pump of oil pipe line | B | 送料机 Feeding machine | B |
| 转子钻井设备 Rotary drilling equipment | C | 织布机 Loom machine | B |
| 制纸机类 PAPERING MACHINE | | 印染机 Dyeing machine | B |
| 压光机** Glazing press | C | 精制筒 Purified drum | B |
| 多层纸板机** Multilayer paper board machine | C | 威罗机 Welon machine | B |
| 干燥滚筒** Drying cylinder | C | 水处理设备类 WASTER TREATMENT EQUIPMENTS | |
| 上光滚筒** Glazing cylinder | C | 鼓风机** Air blast | B |
| 搅浆机** Masher | C | 螺杆泵 Screw pump | B |
| 搅浆擦碎机** Mashing and breaking machine | C | 木料加工机床 WOOD PROCESSING MACHINE TOOL | |
| 吸水滚** Suction roll | C | 剥皮机 Barker | C |
| 潮纸滚压机** Wet paper roller machine | C | 刨床 Facing machine | B |
| 吸水滚压机木** Water absorbing roller machine | C | 锯床 Saw bench | C |
| 威罗机 Welon machine | C | 木材加工机床 Wood processing machine tool | A |

注：A—均匀冲击负载；B—中等冲击负载；C—重冲击负载；**—用于24小时工作制。

Note: A - Uniform load; B - Moderate shock load; C - Heavy shock load; ** - for 24hour system.

系列产品展示
SHOW THE SERIES PRODUCTS

TR 系列斜齿轮减速电机
TR Series helical geared motors



TF 系列平行轴斜齿轮减速电机
TF Series parallel shaft helical geared motors



TK 系列斜齿轮-伞齿轮减速电机
TK Series helical-bevel geared motors



TS 系列斜齿轮-蜗轮蜗杆减速电机
TS Series helical-worm geared motors



WKM 系列斜齿-准双曲面齿轮减速电机
WKM Series helical-hypoid geared motors



TRC 系列小型斜齿轮减速电机
TRC Series mini helical geared motors

TKM / TKB 系列斜齿-准双曲面轮减速电机
TKM / TKB series helical-hypoid gear motors



TAB / TAD 系列高精度行星减速机
TAB / TAD Series high precision planetary gearbox



TWM 系列蜗轮蜗杆减速器
TWM Series worm gear units



TNRV 系列蜗轮蜗杆减速器
TNRV Series worm gear units



VF 系列蜗轮蜗杆减速器
VF Series worm gear units



UDL 系列无级变速器
UDL Series stepless speed variator

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Data of product and catalogue could be different due to the technology update, please refer to the actual product . Without prior notice!

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浙江通宇变速机械股份有限公司

地 址：浙江省台州市椒江区聚祥路318号

邮 编：318000

销售部：0576-88317294 88317299 88317357 88317387

传 真：0576-88317356

E-mail: sales@china-tongyu.com

外贸部：0086-576-88317415 88317413 88317198

传 真：0086-576-88317167

E-mail: export1@china-tongyu.com

<http://www.china-tongyu.com>

ZHEJIANG TONGYU VARIABLE-SPEED MACHINERY CO., LTD.

Add.: No.318 Juxiang Road, Jiaojiang District, Taizhou City, Zhejiang Province, 318000 P.R.China

Domestic sales: 0576-88317294 88317299 88317357 88317387

Fax: 0576-88317356

E-mail: sales@china-tongyu.com

Export sales: 0086-576-88317415 88317413 88317198

Fax: 0086-576-88317167

E-mail: export1@china-tongyu.com

<http://www.china-tongyu.com>