

BOSERL

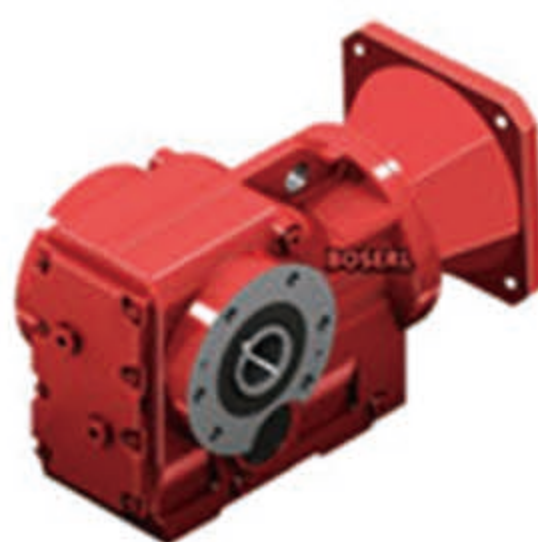
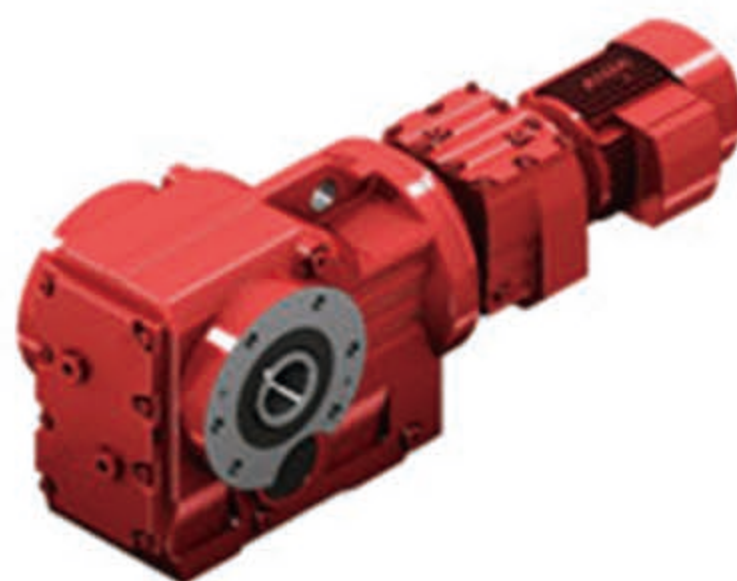
专注减速机电机 研发 制造
您设备的速度，BOSERL可以满足

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KA

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2021

广东伯仕传动科技有限公司
Guangdong Boserl Transmission Technology Co.,Ltd

德国BOSERL减速机成立于2010年，专注于减速机电机设备研发、制造，目前已经和多个国内外大型企业建立技术合作共享关系。

通过建立以品质为核心的技术链生态，以市场需求和企业自身转型升级为动力，BOSERL已迅速成长为国内外减速机电机设备行业的领头羊，成为减速机电机设备行业的深耕版“新SEW”

我公司的主要产品有：R/F/K/S四大系列齿轮减速机、蜗轮蜗杆减速机、标准工业齿轮箱、小型减速电机，功率覆盖5W-9550KW的标准系列。

以全新的“模块组合”概念，为机电电子一体化的发展提供了更加广阔的空间，应用于各种机械设备中，包括钢铁、冶金、水泥、矿山、基建、建材、环保、造纸、港口、机场、高铁、地铁、石化、轻工、电镀、变位机、卷扬机、舞台机械、食品饮料及仓储物流等等。在国家重点工程项目中减速机的产品有着广泛的应用，如国内各主要港口、首都机场及国内各大机场、首都剧场、北京人民大会堂大、小礼堂改造工程、天津夏利、长春一汽、上海通用、大众、上海磁悬浮列车工程，各大污水处理项目以及著名的中华世纪坛、三峡水利工程等等。

多年来，公司不断引进德国新设备如：Niles成形磨齿机、新工艺，采用CAD / CAM / CAI技术，逐步健全了生产、安装、售后服务，质量保证模式，严格按照ISO - 9001 - 2000质量体系要素运做，，确保生产高品质、高规格的产品。

公司团队均已在机电行业从业达到10年以上专业人才组成，团队专注为客户解决传动上所有难题，以多样式方案为客户提供技术支持，提高客户生产效率，降低企业成本，减少客户不必要的浪费及损失，BOSERL已为十几万家企业提供产品解决方案，做到全心全意为客户着想，用价廉物美的产品提供最优质的服务。

实现价值最大化是每个企业的最核心需求。我们发现这个需求并未很好地得到满足，创立BOSERL就是为了实现这个朴素的愿望，帮助企业以更便捷、更高效地完成价值最大化，在行业的竞争中处于更加有利的位置，让世界因我们的付出而更加精彩，实现企业价值最大化。

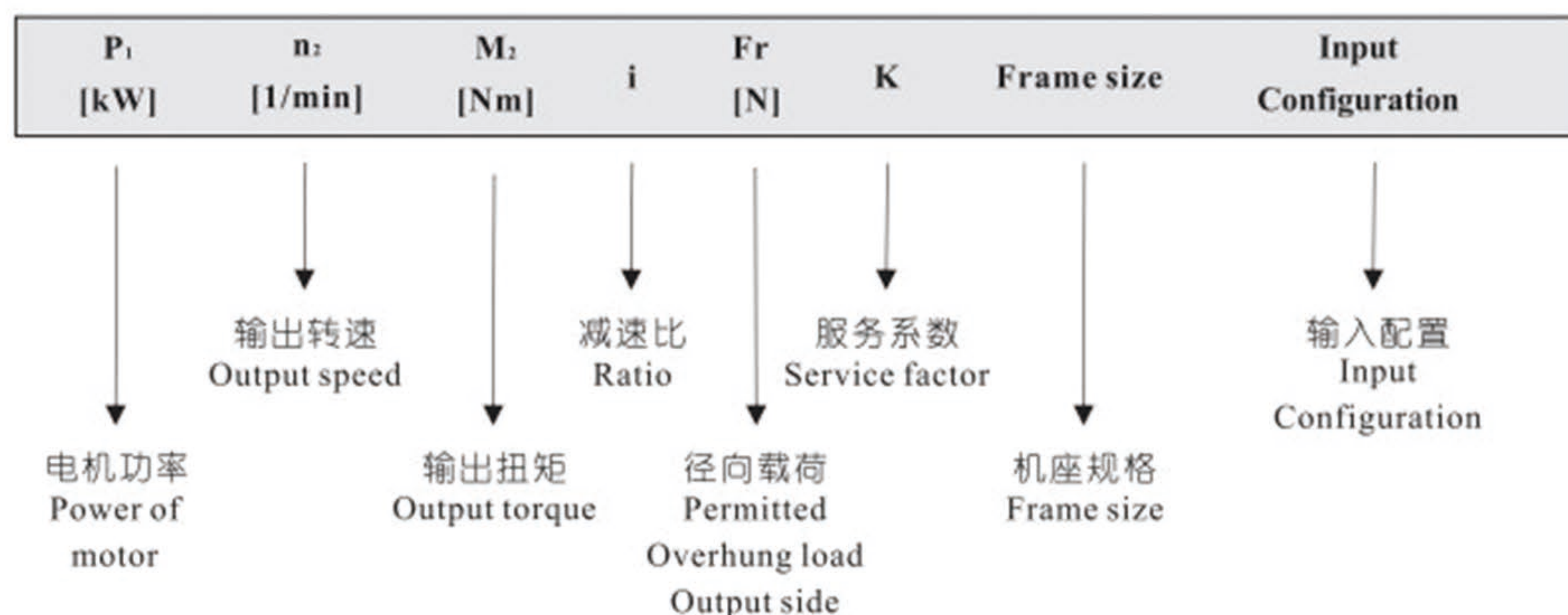
这就是BOSEL！您设备的速度，BOSERL可以满足！



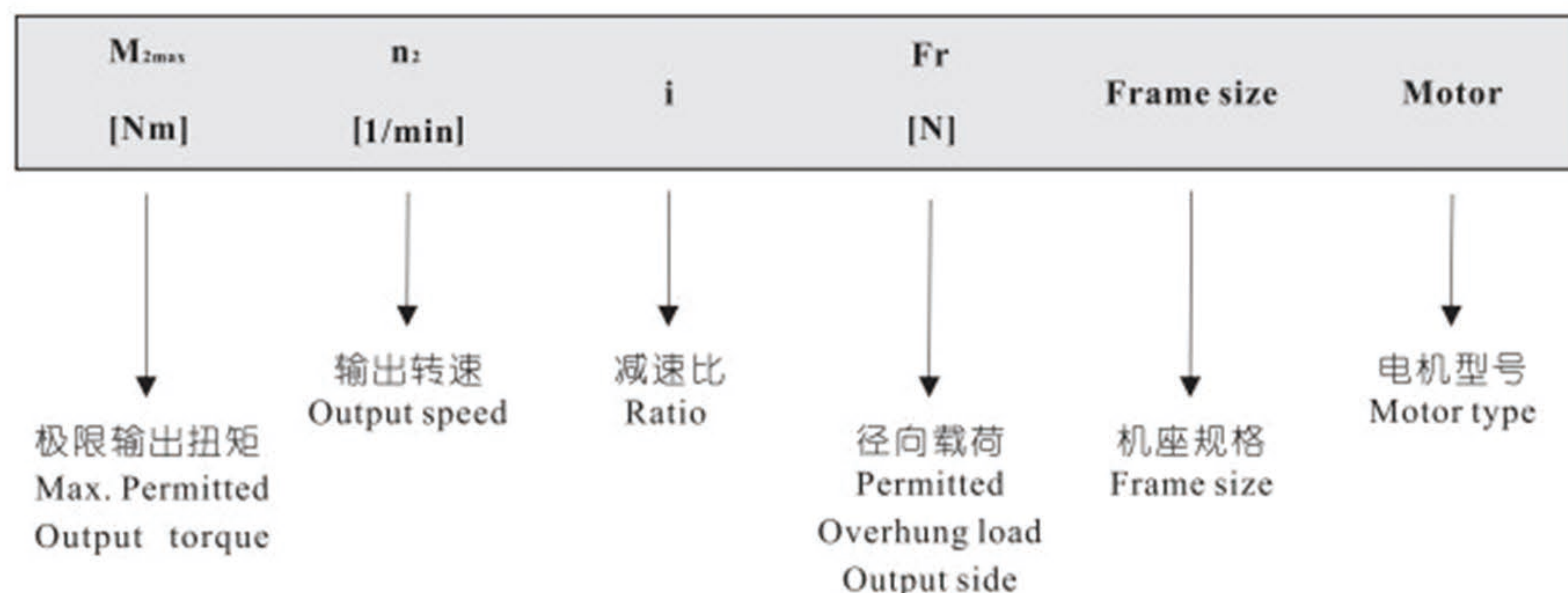


1.5 选型表注释 / Selection Table Explanation

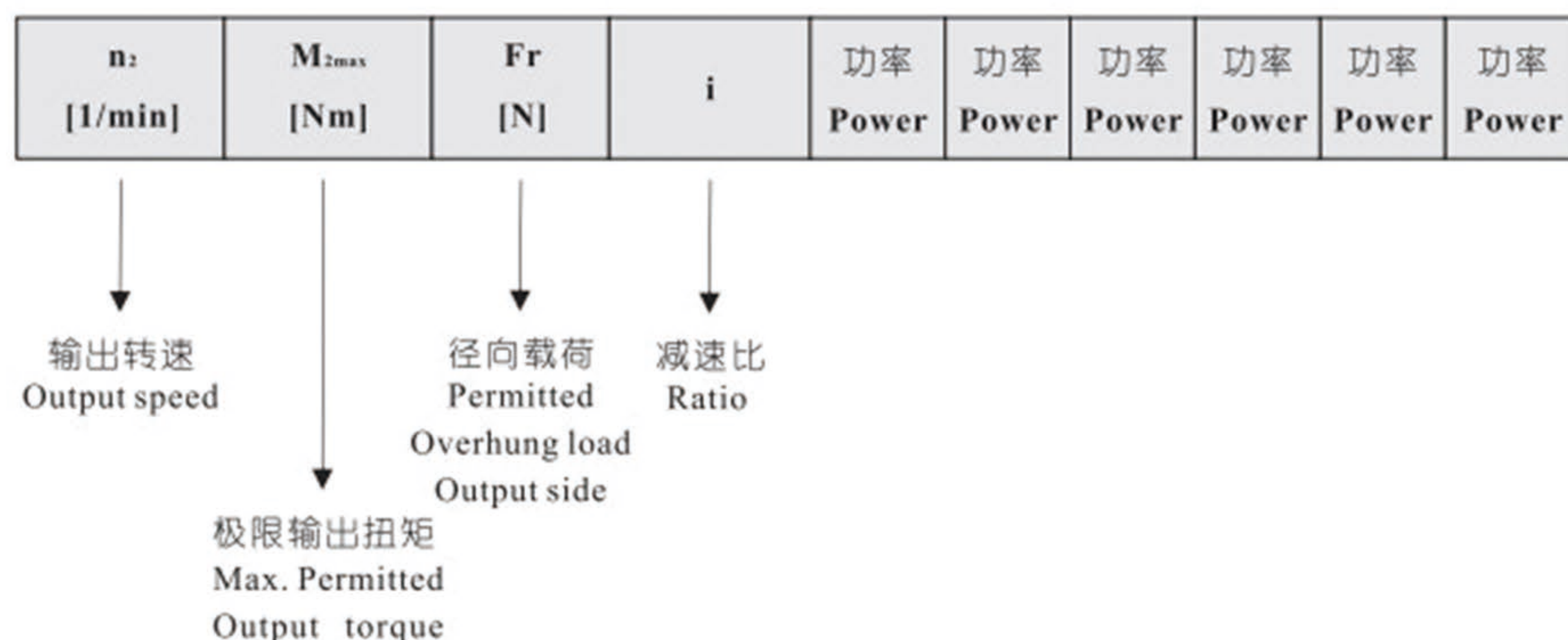
性能参数表结构说明 / Performance Parameter Table Structure



性能参数表结构说明 / Performance Parameter Table Structure



功率配置表结构说明 / Power Combination



1.6. 润滑油 / Lubrication

1.6.1 润滑油类型 / Types of Lubrication

	环境温度(℃) Ambient Temperature(℃)	ISO粘度 ISO Viscosity Class	 SHELL	Mobil MOBIL	 BP	润滑油类型 Lubrication Type
GR GF GK GS	-40 ~ +10	VG 220	Shell Omala 200	Mobilgear 630	BP Energol GR-XP 220	矿物油 Mineral Oil
	-20 ~ +25	VG 150 VG 100	Shell Omala 100	Mobilgear 627	BP Energol GR-XP 100	
	-30 ~ +10	VG68-46 VG 32	Shell Tellus 32	Mobil D.T.E 13M		
	-40 ~ -20	VG 22 VG 15	Shell Tellus 32	Mobil D.T.E 11M	BP Energol HLP-HM 15	
	-40 ~ +80	VG 220	Shell Tellus 32	Mobil SHC 630		合成油 Synthetic Oil
	-40 ~ +10	VG 32		Mobil SHC 624		

1.6.2 润滑油量表

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。

1.6.2 Lubricant Fill Quantity

The specified fill quantities are recommended values. The precise value varies 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 capacity. The following tables show guide values For lubricant fill quantities in relation to the mounting position M1 -M6.

GK.,GKA..B,GKH..B,GKV..B

减速器型号 Gear units	加注量 Fill quantity in liters 单位:升(L) Unit: L					
	M1	M2	M3	M4	M5	M6
GK..37	0.50	1.00	1.00	1.25	0.95	0.95
GK..47	0.80	1.30	1.50	2.00	1.60	1.60
GK..57	1.10	2.20	2.20	2.80	2.30	2.10
GK..67	1.10	2.40	2.60	3.45	2.60	2.60
GK..77	2.20	4.10	4.40	5.80	4.20	4.40
GK..87	3.70	8.00	8.70	10.9	8.00	8.00
GK..97	7.00	14.0	15.7	20.0	15.7	15.5
GK..107	10.0	21.0	25.5	33.5	24.0	24.0
GK..127	21.0	41.5	44.0	54.0	40.0	41.0
GK..157	31.0	62.0	65.0	90.0	58.0	62.0
GK..167	33.0	95.0	105.0	123.0	85.0	84.0
GK..187	53.0	152.0	167.0	200.0	143.0	143.0

GKF..

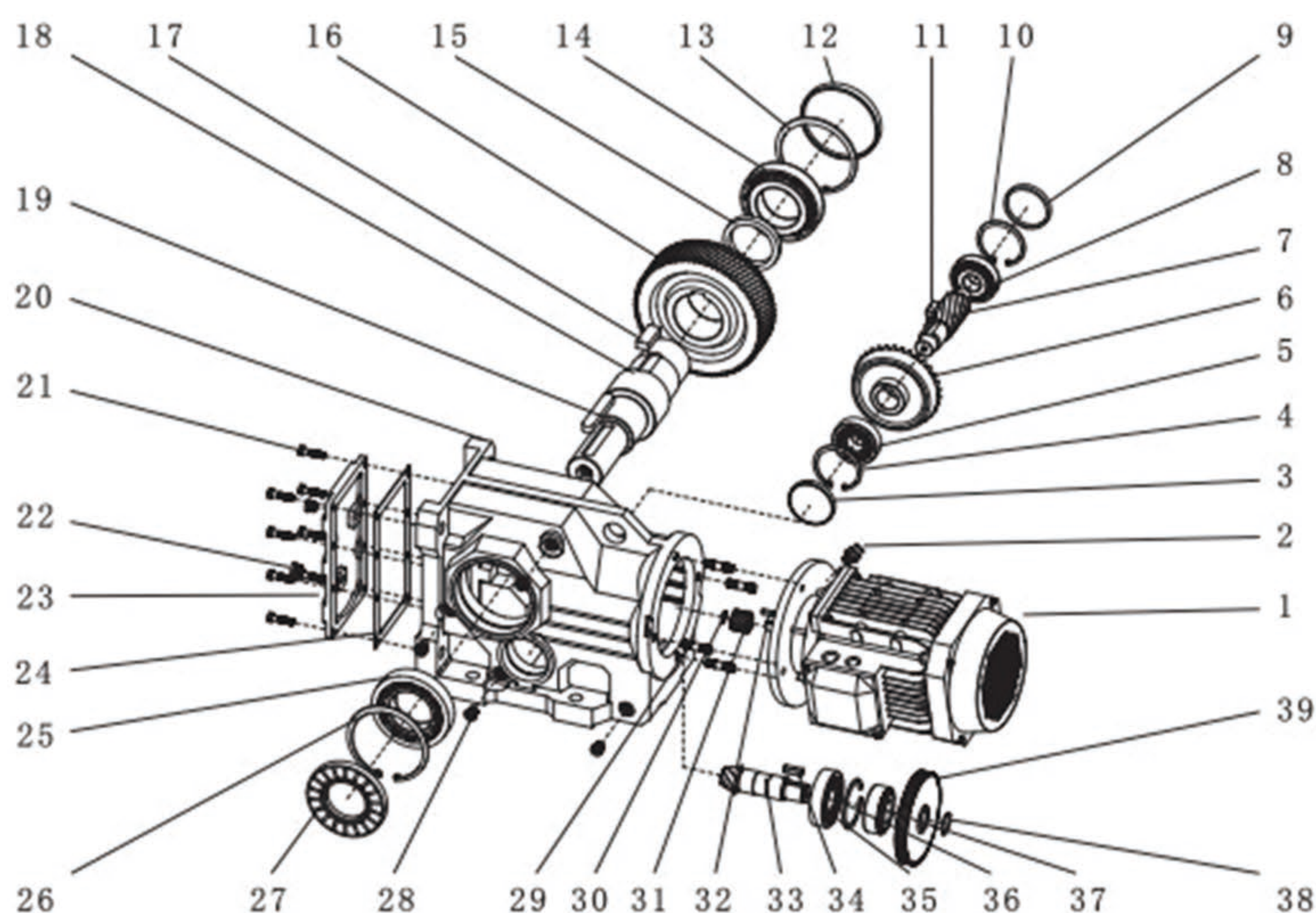
减速器型号 Gear units	加注量 Fill quantity in liters 单位:升(L) Unit: L					
	M1	M2	M3	M4	M5	M6
GKF37	0.50	1.10	1.10	1.50	1.00	1.00
GKF47	0.80	1.30	1.70	2.20	1.60	1.60
GKF57	1.20	2.20	2.40	3.15	2.50	2.30
GKF67	1.10	2.40	2.80	3.70	2.70	2.70
GKF77	2.10	4.10	4.40	5.90	4.50	4.50
GKF87	3.70	8.20	9.00	11.9	8.40	8.40
GKF97	7.00	14.7	17.3	21.5	15.7	16.5
GKF107	10.0	21.8	25.8	35.1	25.2	25.2
GKF127	21.0	41.5	46.0	55.0	41.0	41.0
GKF157	31.0	66.0	69.0	92.0	62.0	62.0

GKA..,GKH..,GKV..,GKAF..,GKHF..,GKVF..,GKAZ..,GKHZ..,GKVZ..

减速器型号 Gear units	加注量 Fill quantity in liters 单位:升(L) Unit: L					
	M1	M2	M3	M4	M5	M6
GK..37	0.50	1.00	1.00	1.40	1.00	1.00
GK..47	0.80	1.30	1.60	2.10	1.60	1.60
GK..57	1.30	2.30	2.70	3.20	2.90	2.70
GK..67	1.10	2.40	2.70	3.60	2.60	2.60
GK..77	2.10	4.10	4.60	6.00	4.40	4.40
GK..87	3.70	8.20	8.80	11.1	8.00	8.00
GK..97	7.00	14.7	15.7	20.0	15.7	15.7
GK..107	10.0	20.5	24.0	32.0	24.0	24.0
GK..127	21.0	41.5	43.0	52.0	40.0	40.0
GK..157	31.0	66.0	67.0	87.0	62.0	62.0
GK..167	33.0	95.0	105.0	123.0	85.0	84.0
GK..187	53.0	152.0	167.0	200.0	143.0	143.0



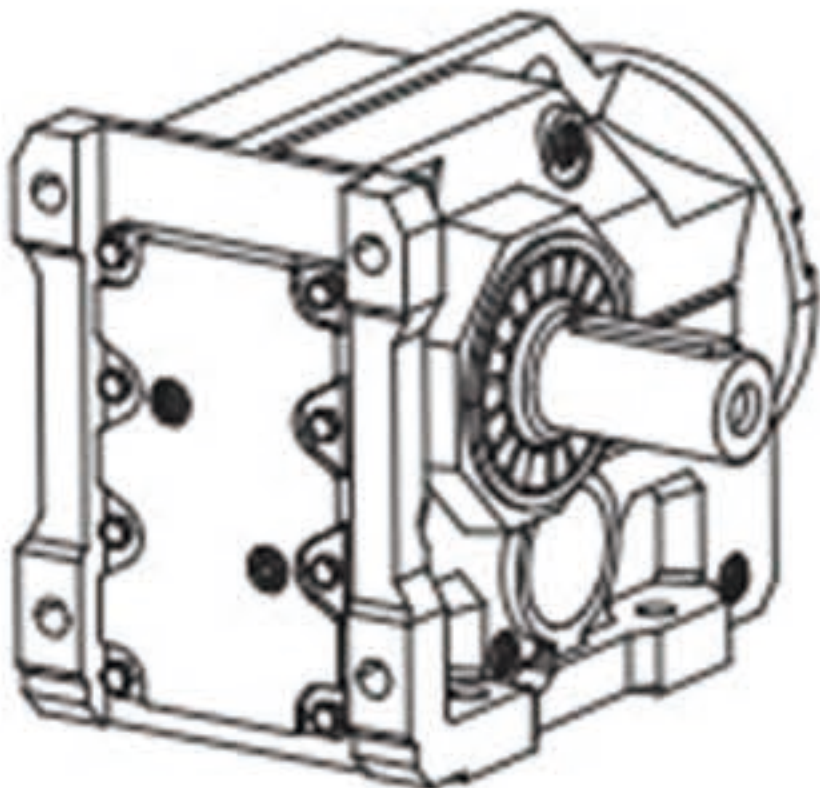
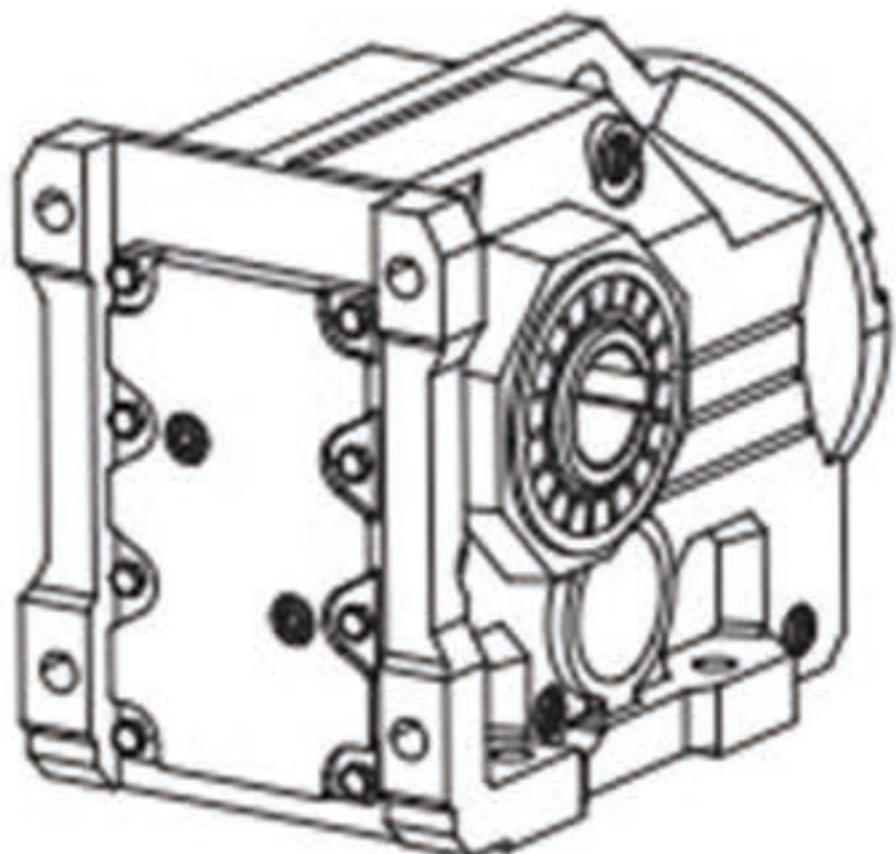
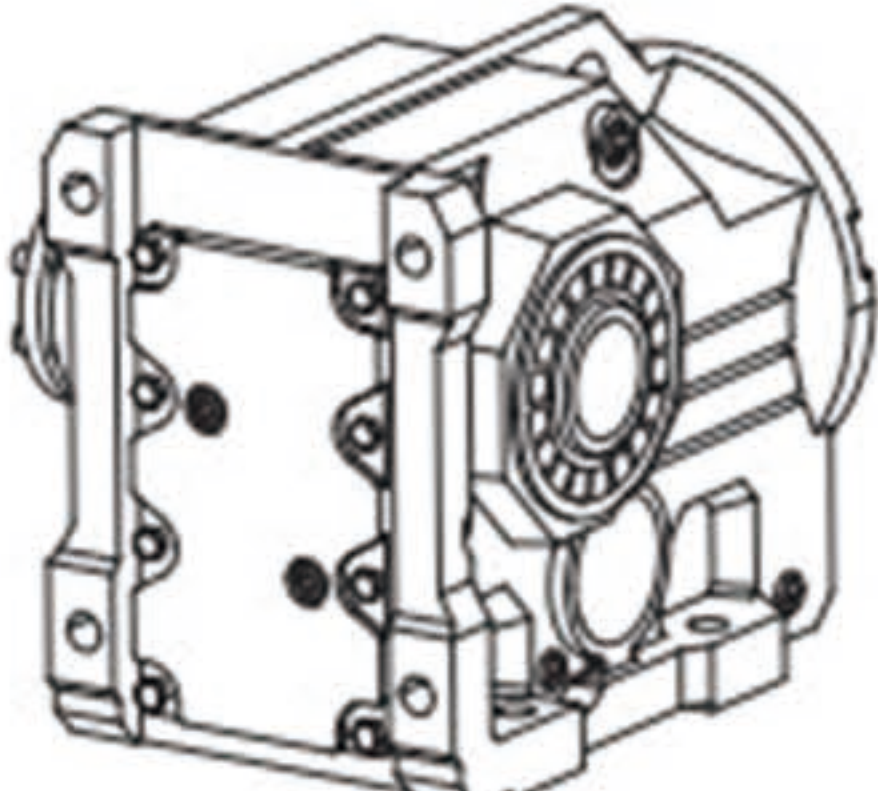
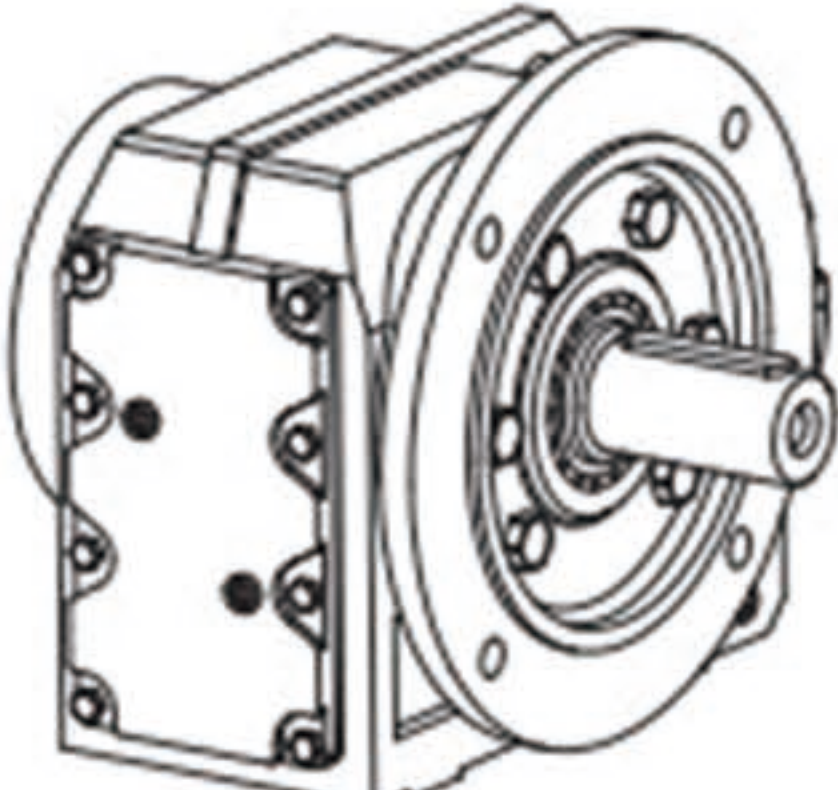
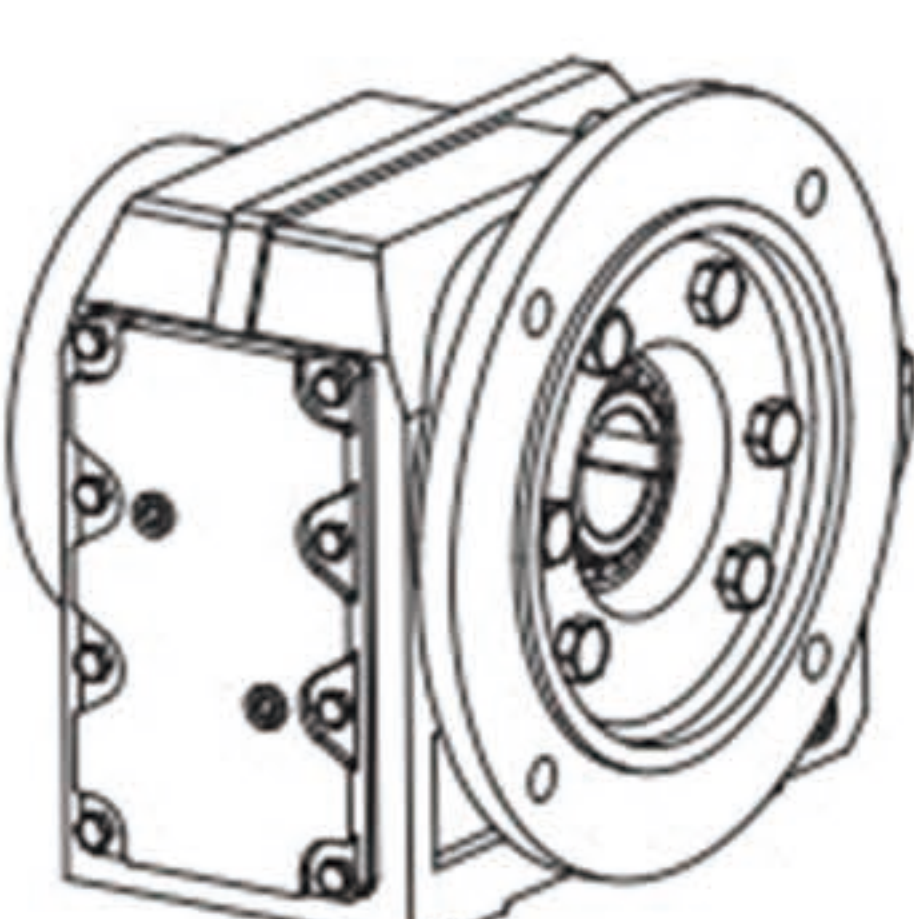
4.1 部件分解图 / Spare Parts List



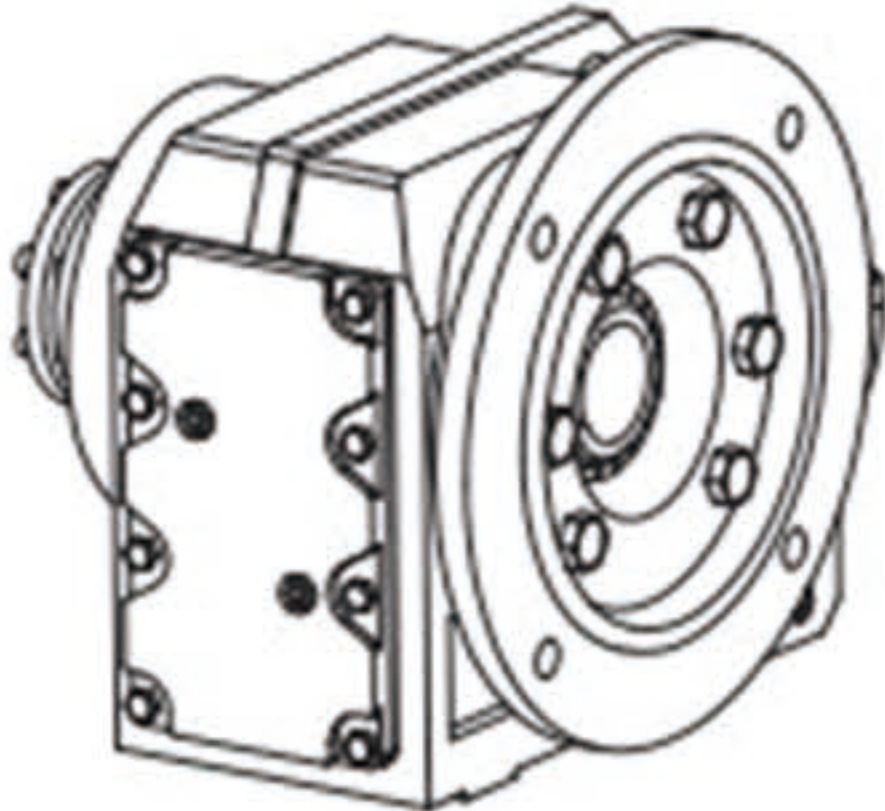
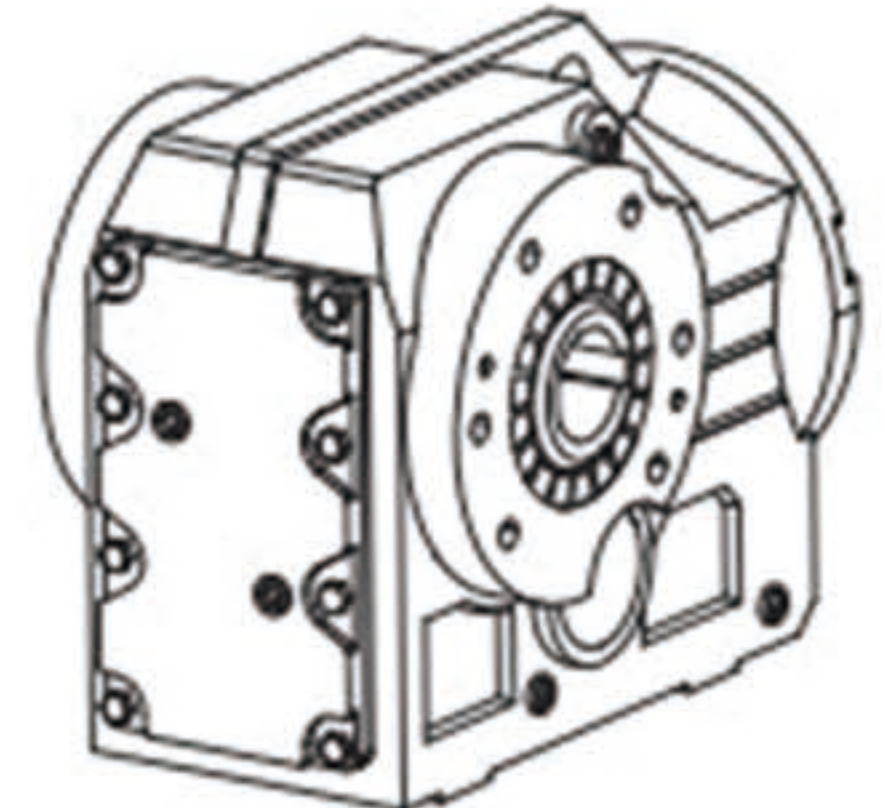
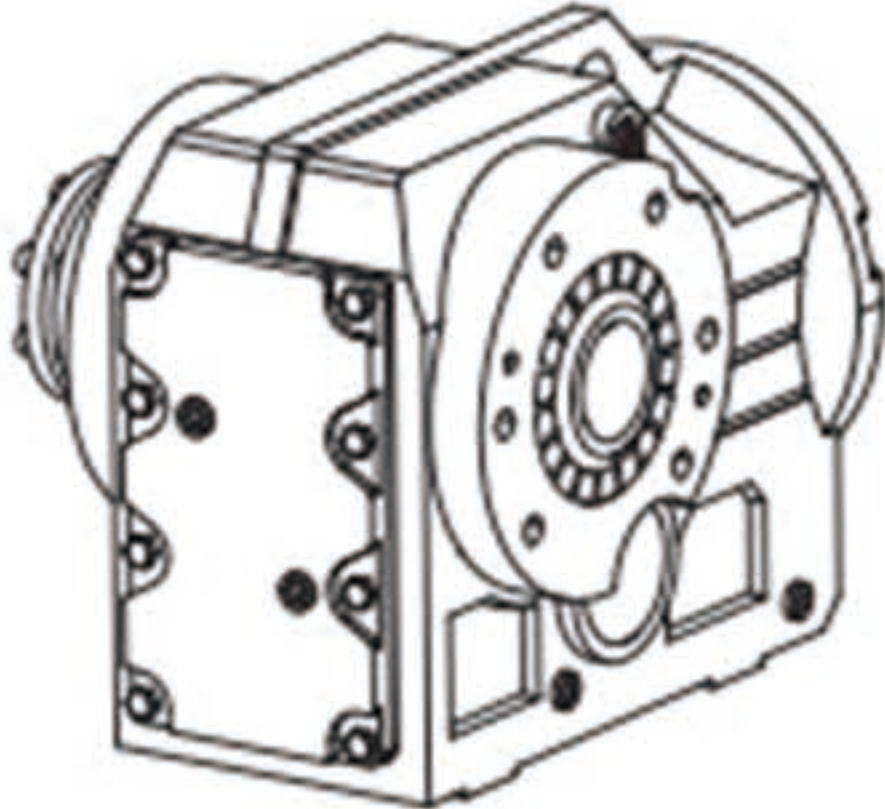
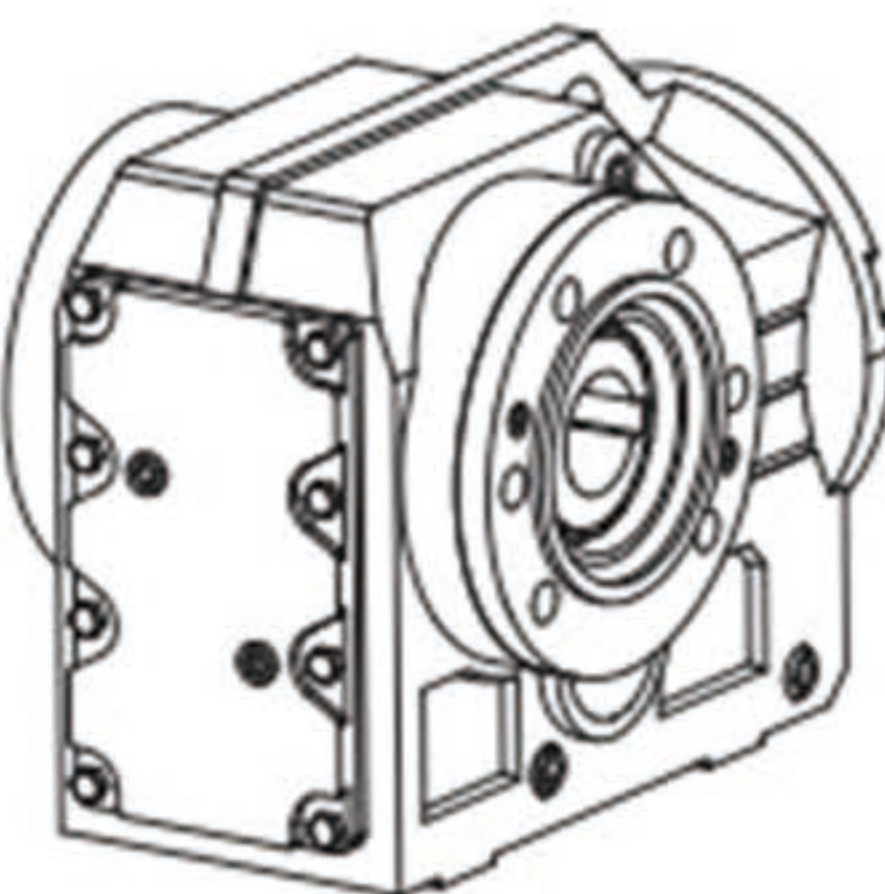
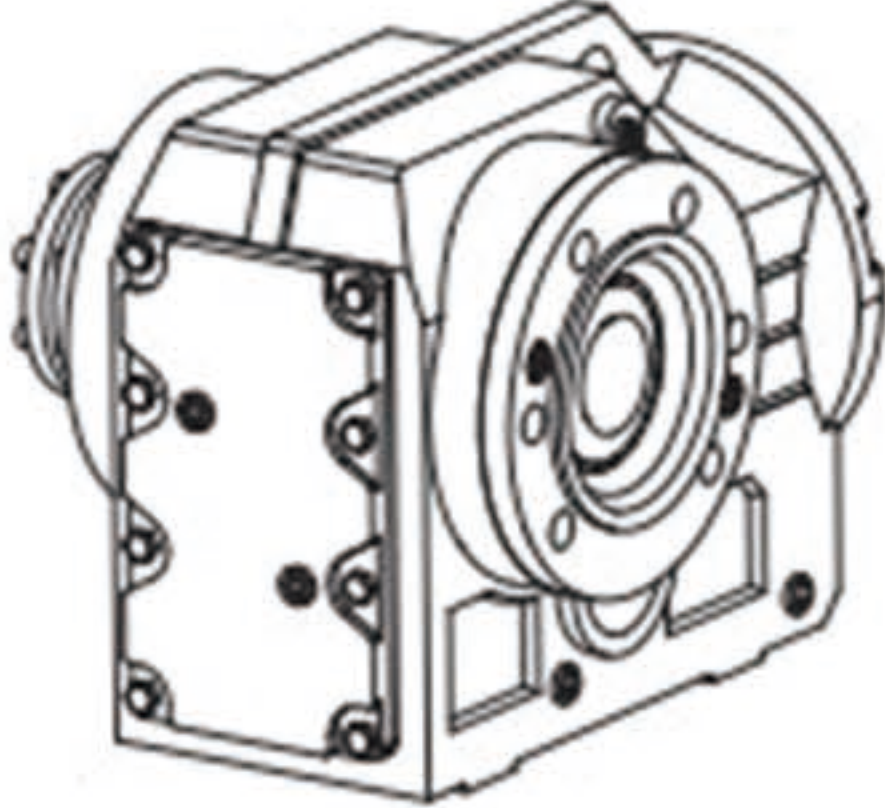
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|-----------------------------------|------------------------------------|
| 1 电机/motor | 21 外六角螺钉/hex head screw |
| 2 透气阀/breather valve | 22 油塞/oil level plug |
| 3 平面油封/plane seal | 23 盖板/cover plate |
| 4 孔用挡圈/retaining rings for bores | 24 纸垫/gasket |
| 5 轴承/bearing | 25 轴承/bearing |
| 6 伞齿轮/bevel gear | 26 孔用挡圈/retaining rings for bores |
| 7 齿轮轴/gear shaft | 27 骨架油封/skeleton oil seal |
| 8 轴承/bearing | 28 油塞/oil level plug |
| 9 平面油封/plane seal | 29 双头螺栓/stud |
| 10 孔用挡圈/retaining rings for bores | 30 轴用挡圈/retaining rings for shafts |
| 11 平键/flat key | 31 齿轮/gear |
| 12 平面油封/plane seal | 32 平键/flat key |
| 13 孔用挡圈/retaining rings for bores | 33 伞齿轴/bevel gear shaft |
| 14 轴承/bearing | 34 平键/flat key |
| 15 垫片/spacer tube | 35 轴承/bearing |
| 16 齿轮/gear | 36 孔用挡圈/retaining rings for bores |
| 17 平键/flat key | 37 轴承/bearing |
| 18 输出轴/output shaft | 38 轴用挡圈/retaining rings for shafts |
| 19 平键/flat key | 39 齿轮/gear |
| 20 箱体/housing | |

4.2 机型版本 / Versions

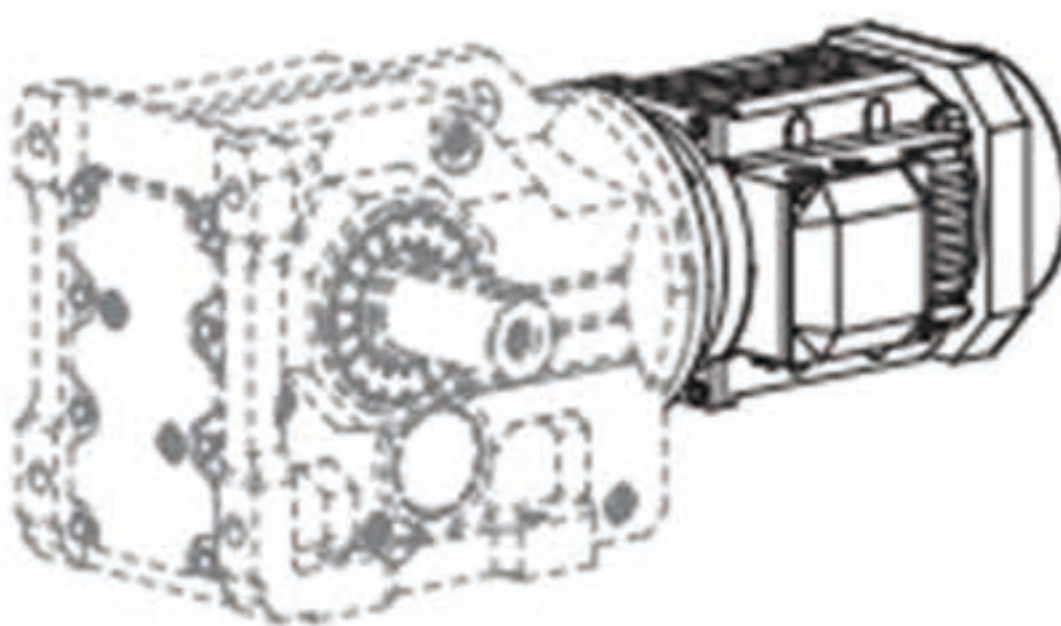
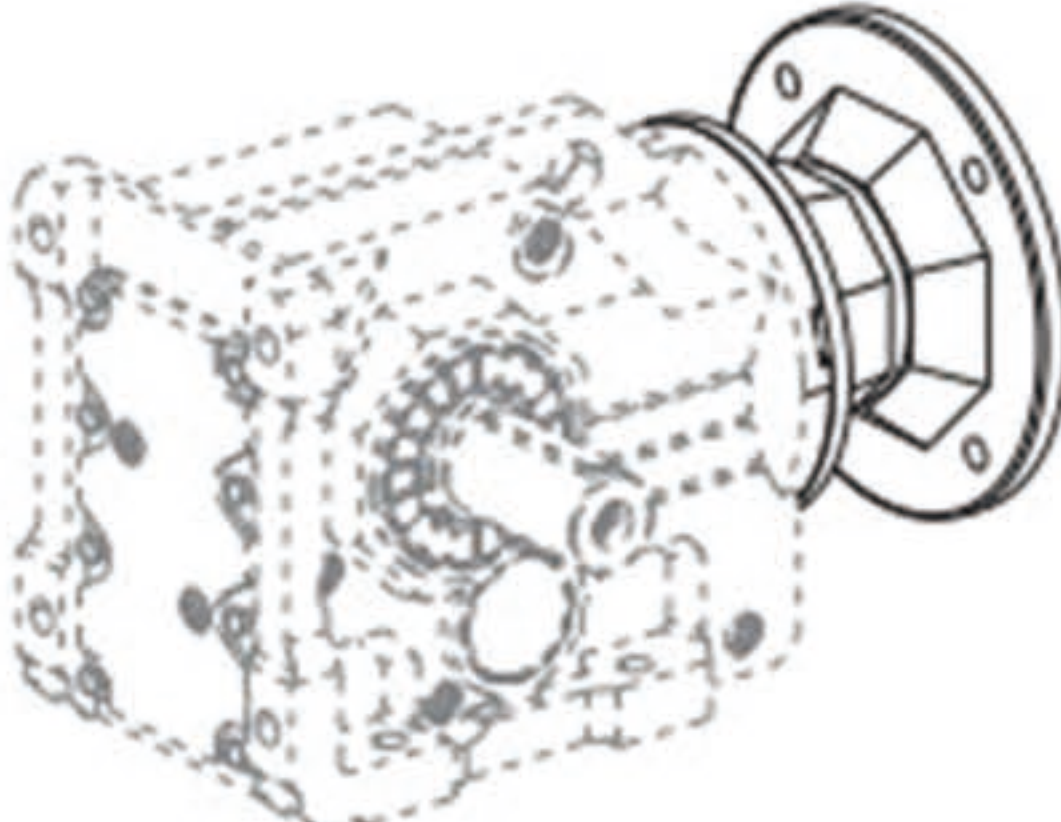
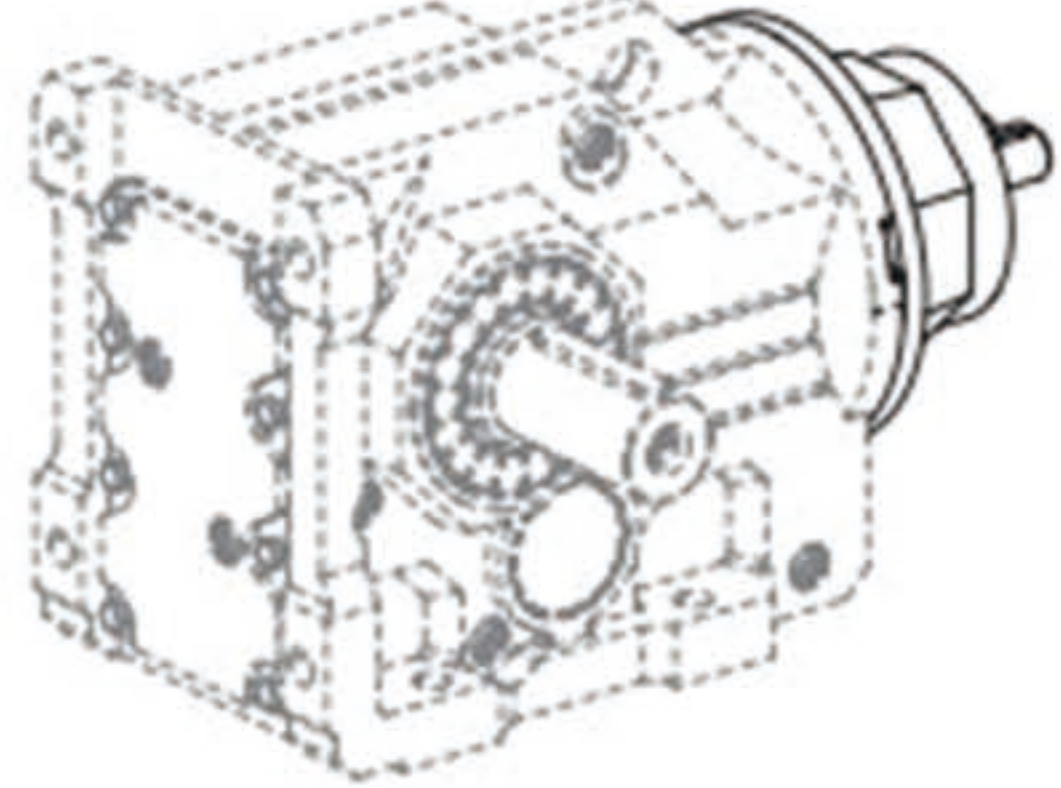
4.2.1 基本型式 / Basic Versions

	GK.. 底脚安装斜齿-伞齿减速机 Foot-mounted helical-bevel gear unit.
	GKA..B 底脚空心轴安装斜齿-伞齿减速机 Foot-mounted helical-bevel gear unit with hollow shaft. GKV..B 底脚花键空心轴 (DIN 5480) 安装斜齿-伞齿减速机 Foot-mounted helical-bevel gear unit with hollow shaft and splined hollow shaft to DIN 5480.
	GKH..B 底脚空心轴锁紧盘安装斜齿-伞齿减速机 Foot-mounted helical-bevel gear unit with hollow shaft and shrink disc.
	GKF.. B5 法兰安装斜齿-伞齿减速机 Helical-bevel gear unit in B5 flange-mounted version.
	GKAF.. B5 法兰空心轴安装斜齿-伞齿减速机 Helical-bevel gear unit in B5 flange-mounted version with hollow shaft. GKVF.. B5 法兰花键空心轴 (DIN 5480) 安装斜齿-伞齿减速机 Helical-bevel gear unit in B5 flange-mounted version with hollow shaft and splined hollow shaft to DIN 5480.



	GKHF.. B5 法兰空心轴锁紧盘安装斜齿-伞齿减速机 Helical-bevel gear unit in B5 flange-mounted version with hollow shaft and shrink disc.
	GKA.. 空心轴安装斜齿-伞齿减速机 Helical-bevel gear unit with hollow shaft. GKV.. 花键空心轴 (DIN 5480) 安装斜齿-伞齿减速机 Helical-bevel gear unit with hollow shaft and splined hollow shaft to DIN 5480.
	GKH.. 空心轴锁紧盘安装斜齿-伞齿减速机 Helical-bevel gear unit with hollow shaft and shrink disc. GKT.. 空心轴扭力臂安装斜齿-伞齿减速机 Helical-bevel gear unit with hollow shaft and torque arm.
	GKAZ.. B14 法兰空心轴安装斜齿-伞齿减速机 Helical-bevel gear unit in B14 flange-mounted version with hollow shaft. GKVZ.. B14 法兰花键空心轴 (DIN 5480) 安装斜齿-伞齿减速机 Helical-bevel gear unit in B14 flange-mounted version with hollow shaft and splined hollow shaft to DIN 5480.
	GKHZ.. B14 法兰空心轴锁紧盘安装斜齿-伞齿减速机 Helical-bevel gear unit in B14 flange-mounted version with hollow shaft and shrink disc.

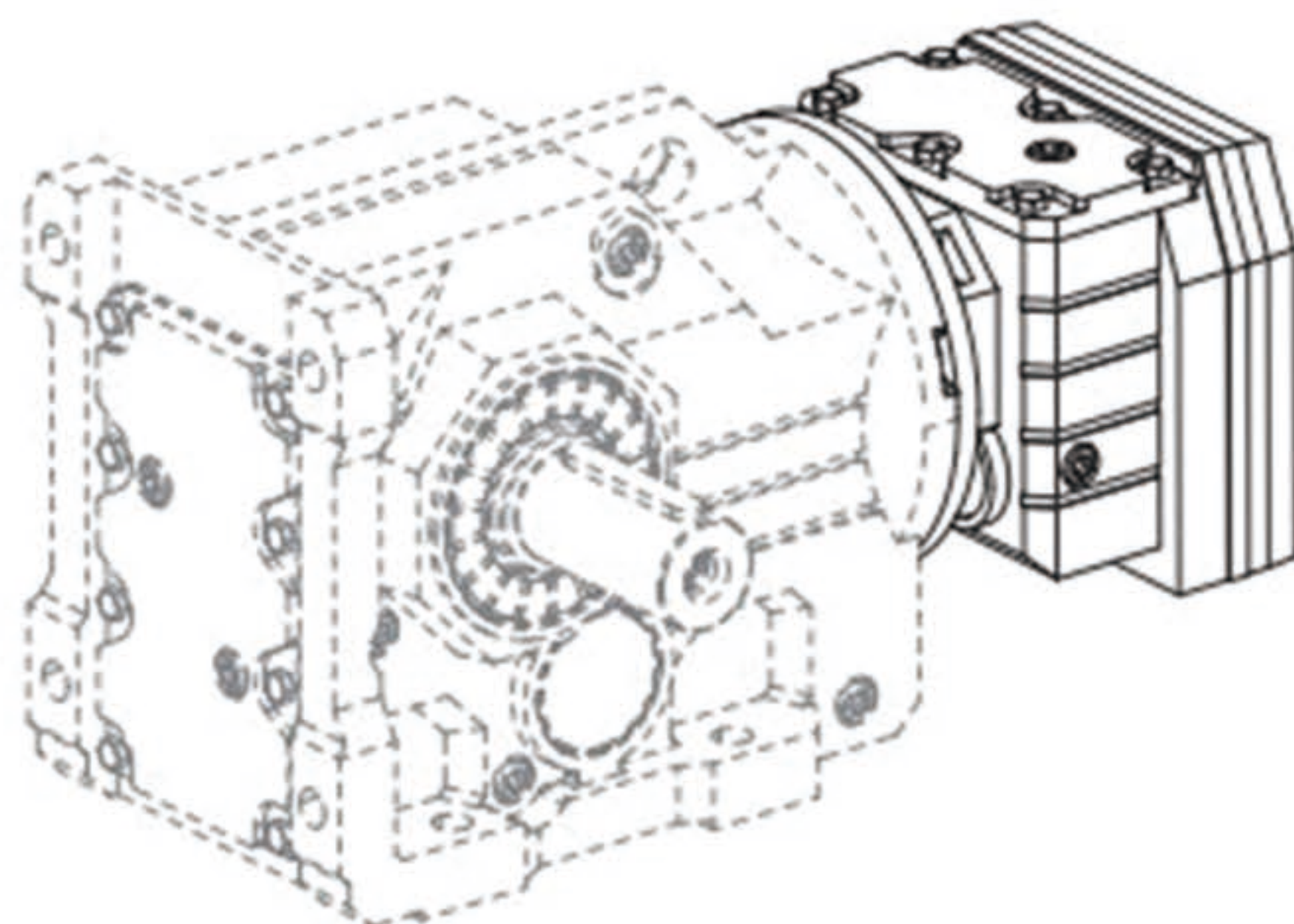
4.2.2 输入型式 / Input Versions

	GK..Y.. 直联电机输入 Input with geared motors.
	GK..AM.. AM (IEC) 法兰输入 Input with AM adapters for mounting IEC motors.
	GK..AD.. AD 轴输入 Input with AD shaft assembly.

4.2.3 GK..与 GRF..组合 / GK.. and GRF.. Combination

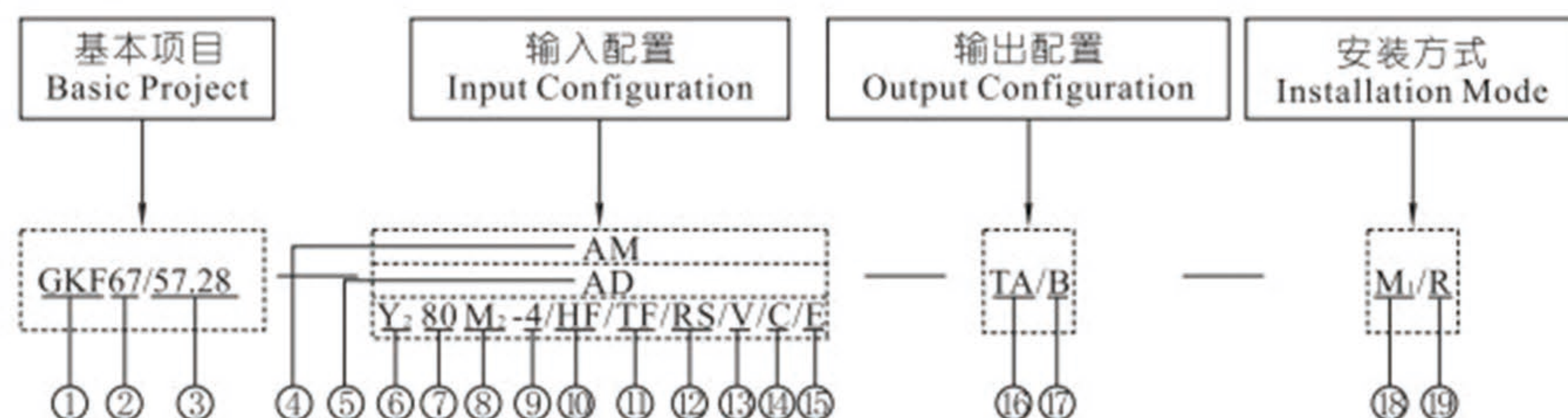
当需要特别低速输出时，可选择 GRF 齿轮箱作为 GK 齿轮箱的输入。

If special low speed is needed, GRF.. gearbox can be the input of GK.. Gearbox.





4.3 产品标注 / Product Code



	标号 NO.	含义 Meaning	说明 Explanation
基本项目 Basic Project	①	系列代号 Series Code	GK、GKF、GKA... (详见4.2.1) GK, GKF, GKA... (see 4.2.1).
	②	机座号 Frame Size	机座号: 37、47、57... Frame Size: 37, 47, 57...
	③	传动比 Transmission Ratio	传动比 i Transmission Ratio I.
输入配置 Input Configuration	④	法兰输入代号 Flange Input Code	AM(IEC): 63、71、80...
	⑤	轴输入代号 Shaft Input Code	AD: 1、2、3...
	⑥	电机代号 Motor Code	Y ₂ : 三相异步电动机 Y ₂ : Three Phase Asynchronous Motor. YD: 变极多速三相异步电动机 YD: Variable-pole Multi-speed Three Phase Asynchronous Motor. YS: 小功率三相异步电动机 YS: Small Power Three Phase Asynchronous Motor. YVF ₂ : 变频调速三相异步电动机 YVF ₂ : Variable Frequency Speed Control Three Phase Asynchronous Motor. Y ₂ EJ: 电磁制动三相异步电动机 Y ₂ EJ: Electromagnetic Brake Three Phase Asynchronous Motor. YB ₂ : 隔爆三相异步电动机 YB ₂ : Flame Proof Three Phase Asynchronous Motor.
	⑦	电机机座号 Motor Frame Size.	63、71、80...
	⑧	电机定子铁芯长度代号 Length Code of Stator Core.	M、M ₁ 、M ₂ 、S、S ₁ 、S ₂ 、L、L ₁ 、L ₂
	⑨	电机极数 Pole Number of Motor.	2、4、6、8

	标号 NO.	含义 Meaning	说明 Explanation
输入配置 Input Configuration	⑩	手动释放装置 Manual Release Device	无代码: 无手动释放装置 No Code: No manual release device. HF: 手动释放装置带自锁功能 HF: Manual release device with self-locking Function. HR: 手动释放装置不带自锁功能 HR: Manual release device without self-Locking function.
	⑪	电机热保护装置 Motor Heat-protection Device.	无代码: 无电机热保护装置 No Code: No motor heat-protection device. TF: 电机热保护装置 TF: Motor heat-protection device.
	⑫	逆止器 Backstop	无代码: 无逆止器 No Code: No backstop. RS: 逆止器 RS: Backstop.
	⑬	强制冷却风扇 Forced Cooling Fan	无代码: 无强制冷却风扇 No Code: no forced cooling fan. V: 强制冷却风扇 V: Forced cooling fan.
	⑭	防雨罩 Cover	无代码: 无风扇防护罩 No Code: No fan cover. C: 防雨罩 C: cover.
	⑮	编码器 Encoder	无代码: 无编码器 No Code: No encoder. E: 编码器 E: Encoder
输出配置 Output Configuration	⑯	扭力臂 Torque Arm	无代码: 无扭力臂 No Code: No torque arm. TA: 扭力臂指向A TA: Torque arm pointing to A. TB: 扭力臂指向B TB: Torque arm pointing to B.
	⑰	法兰或轴指向 Flange or Shaft Pointing direction.	A: 法兰或轴指向A A: Flange or shaft pointing to A. B: 法兰或轴指向B B: Flange or shaft pointing to B. A+B: 双出轴或双法兰 A+B: Double flange or shaft.
安装方式 Mounting Positions	⑱	安装方位 Mounting Position	M1、M2、M3、M4、M5、M6
	⑲	电机接线盒方位 Position for motor terminal box.	R、B、L、T



说明:

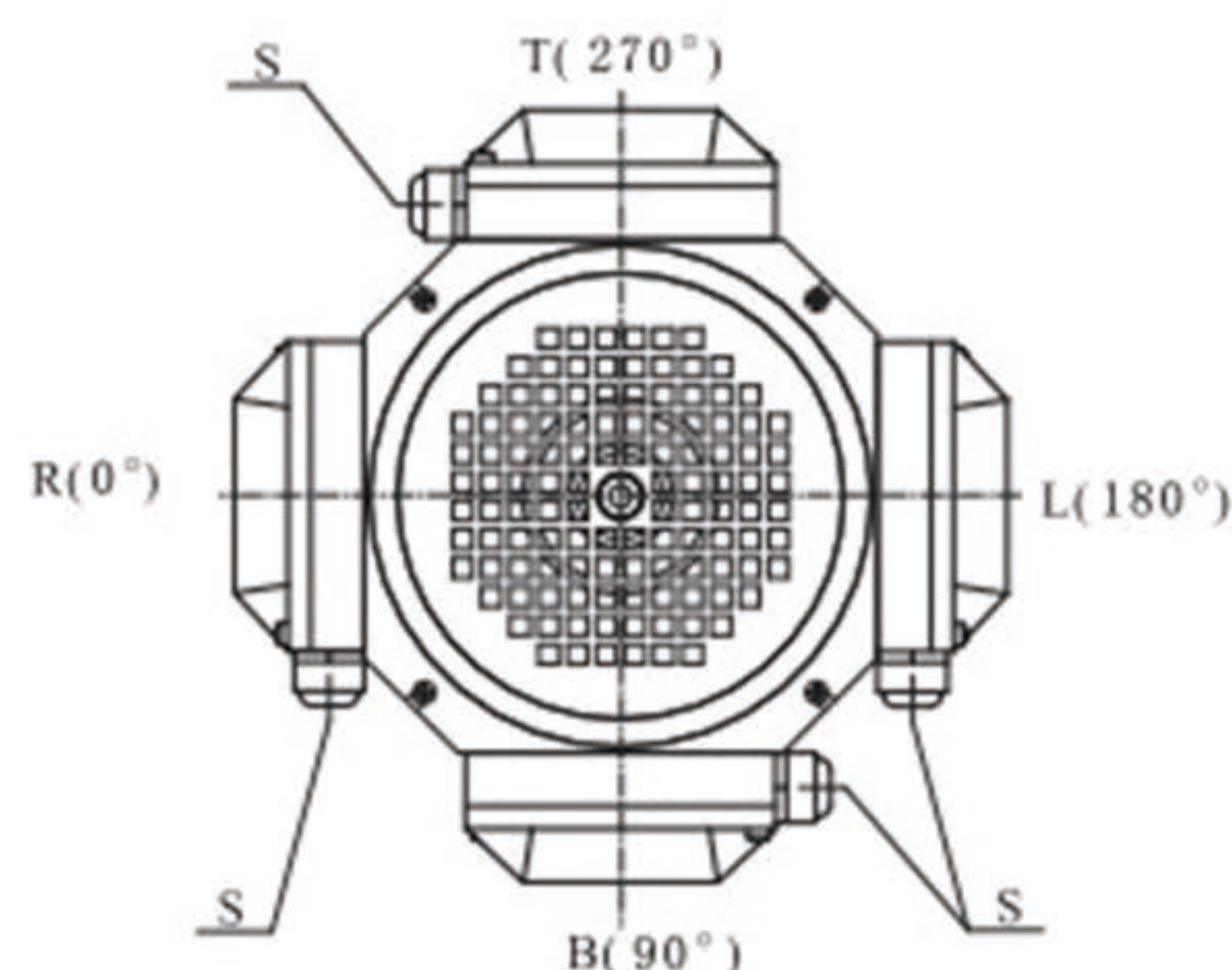
1. 基本项目不可省略;
2. 输入配置中, 只能在 AM、AD 和电机之间选择一种;
3. 输出配置参数若省略, 默认按A方向提供;
4. 安装方式参数若省略, 默认按 M1 安装方位, R 接线盒方位提供。

Notes:

1. Basic project can not be omitted.
2. Input configuration can only be one of AM, AD and motor.
3. If no output configuration, default pointing direction will be B.
4. If not mounting position, default mounting position will be M1, default position for motor terminal will be R.

4.4 安装方位 / Mounting Positions

4.4.1 电机接线盒方位 / Position of Motor Terminal Box

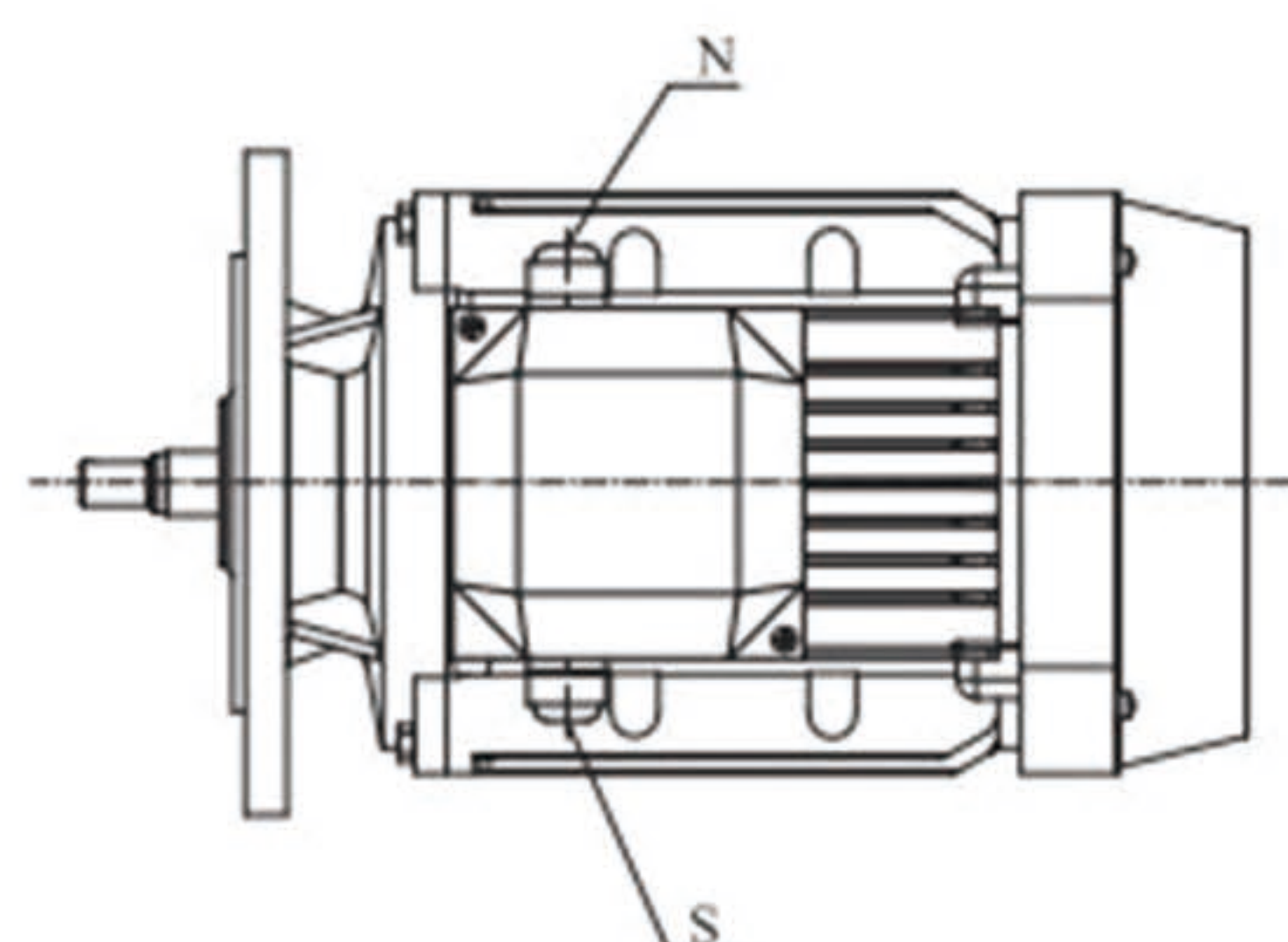


R(0°): 默认接线盒方位

R(0°): Default Position for Motor Terminal Box

注: 图为M1安装方位。

Mark: This picture is the installation position of M1



S: 默认进线方位

S: Default Line Position

说明:

上图的视图方向为: 从电机尾部的风罩向前看。

可提供 R (0°)、B (90°)、L (180°)、T (270°) 四种电机接线盒方位。其中 R (0°) 位置是默认方位。如无特别说明, 将按默认方位提供。

可提供 S 和 N 两种进线方位, 其中 S 位置是默认方位。如无特别说明, 将按默认方位提供。

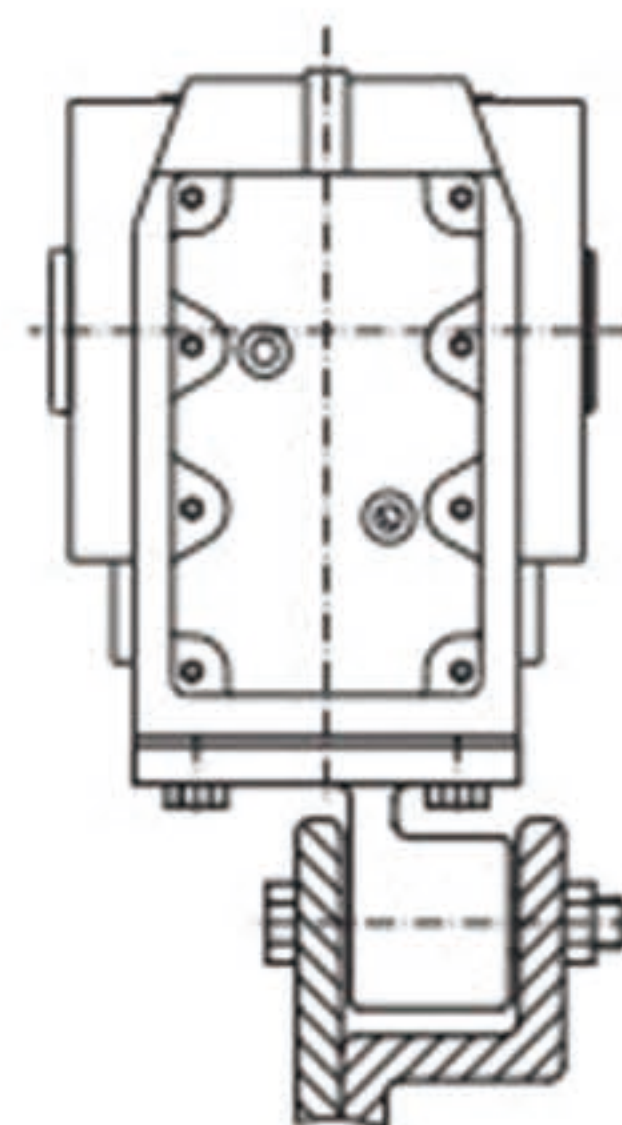
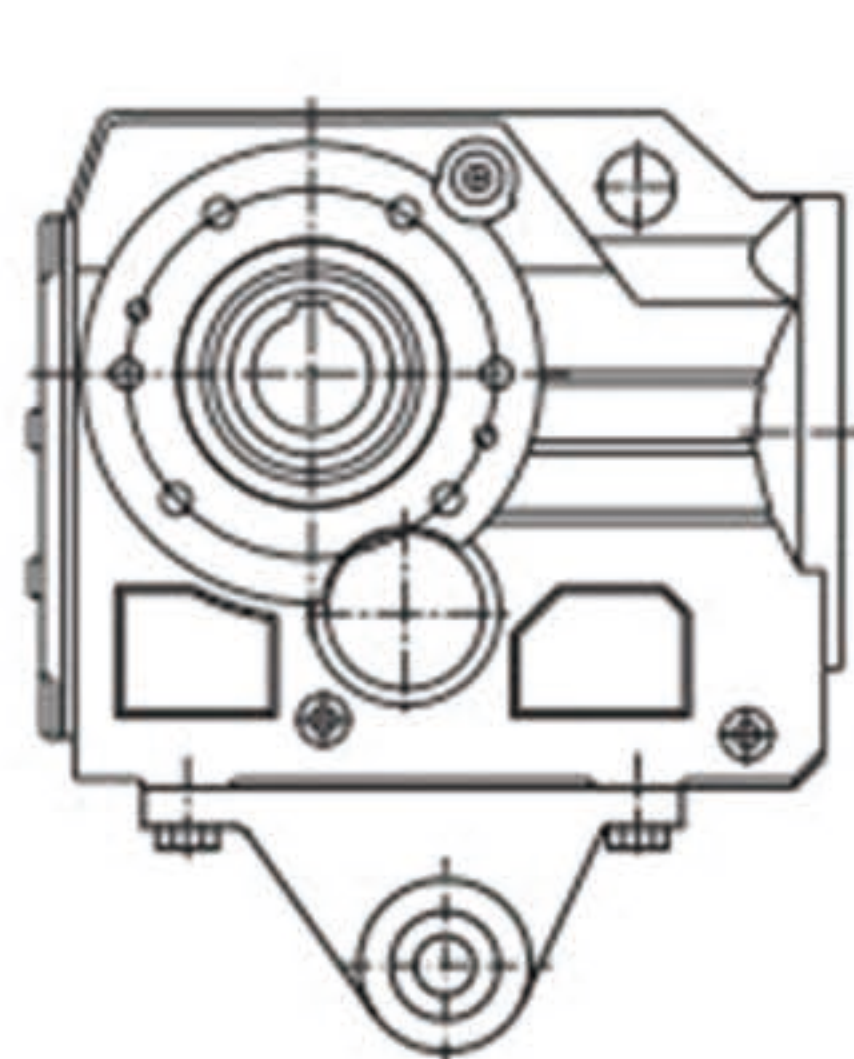
Notes:

The view direction of above figure: from the fan cover in the end of the motor to look forward.

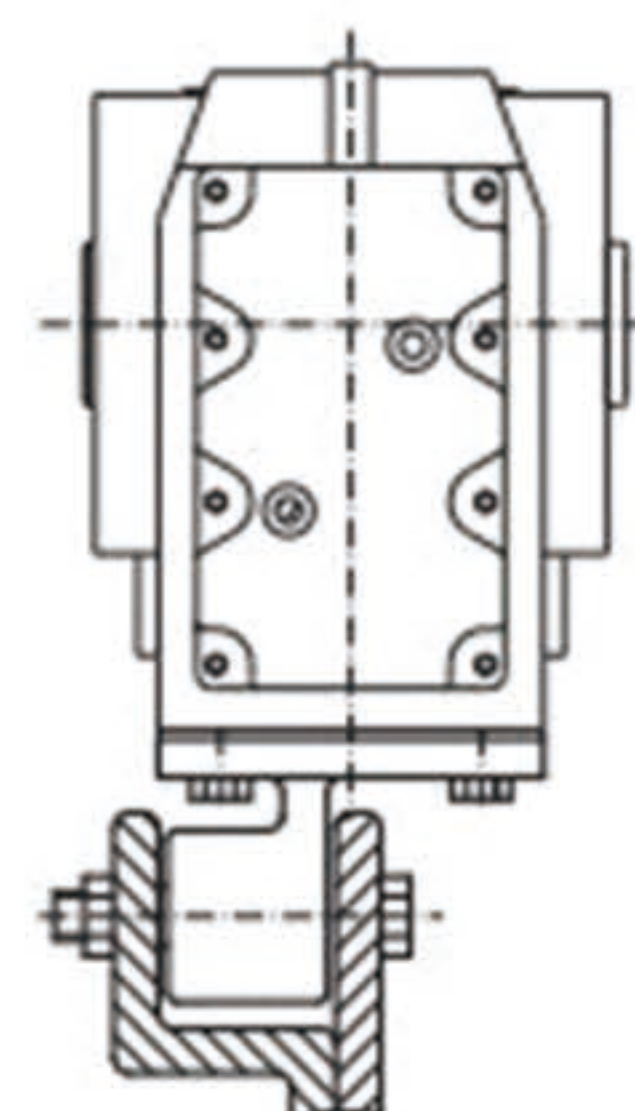
There will be four position for motor terminal box: R(0°)、B(90°)、L(180°)、T(270°). And default position is R(0°). If no special explanation, it will be provided in default position. If no special explanation, it will be provided in default position.

There will be two line position: S and N. Default position is S. If no special explanation, it will be provided in default position. If no special explanation, it will be provided in default position.

4.4.2 扭力臂方位 / Position of Torque Arm



TA



TB

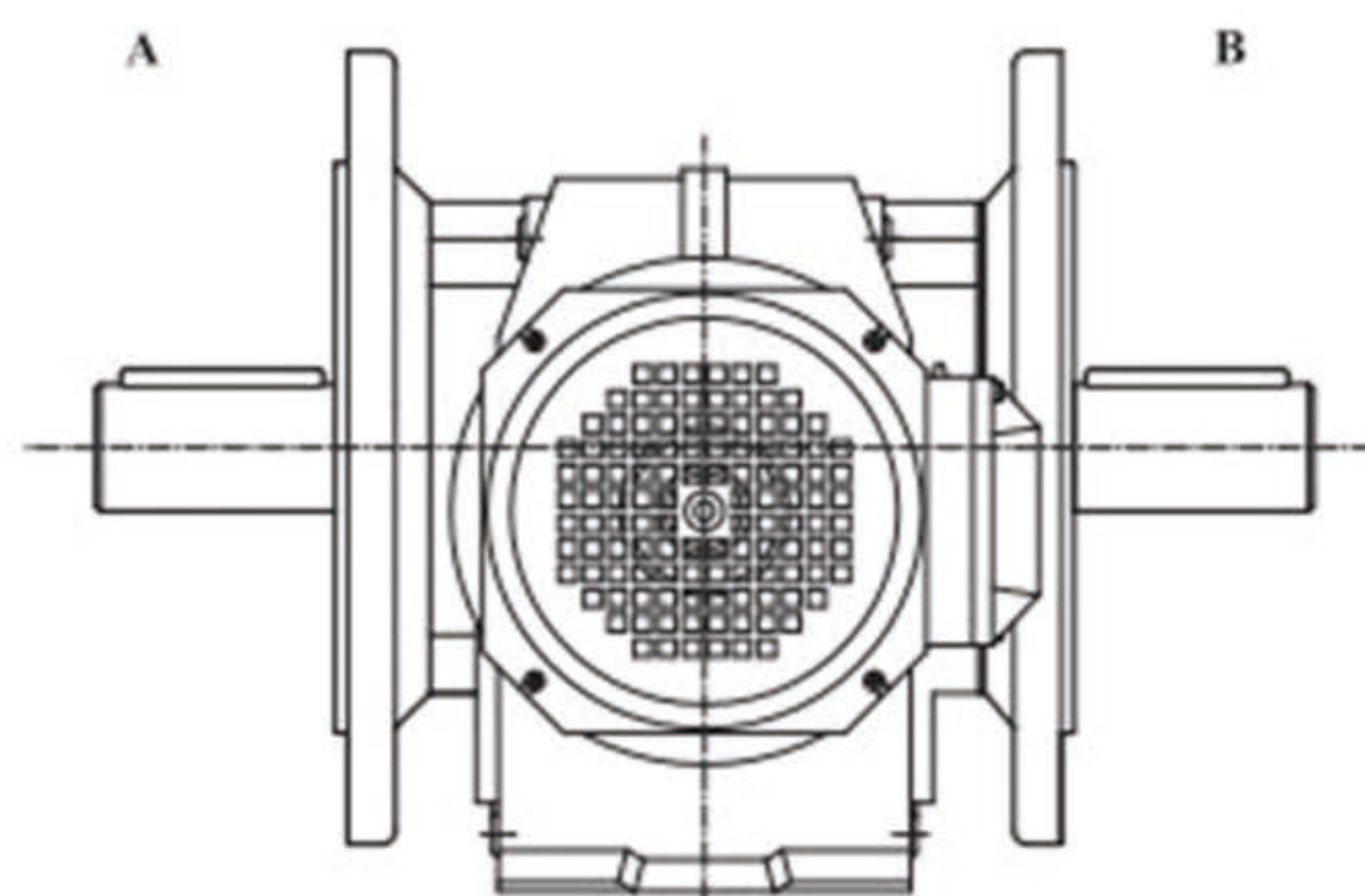
说明:

扭力臂方位 TA 与 TB 是对称的。

Notes:

TA and TB are symmetrical.

4.4.3 法兰或轴指向 / Position of The Output Shaft and Flange



说明:

上图的视图方向为：从电机尾部的风罩向前看。

可提供 A、B 或 A+B 三种输出法兰或输出轴的方位。

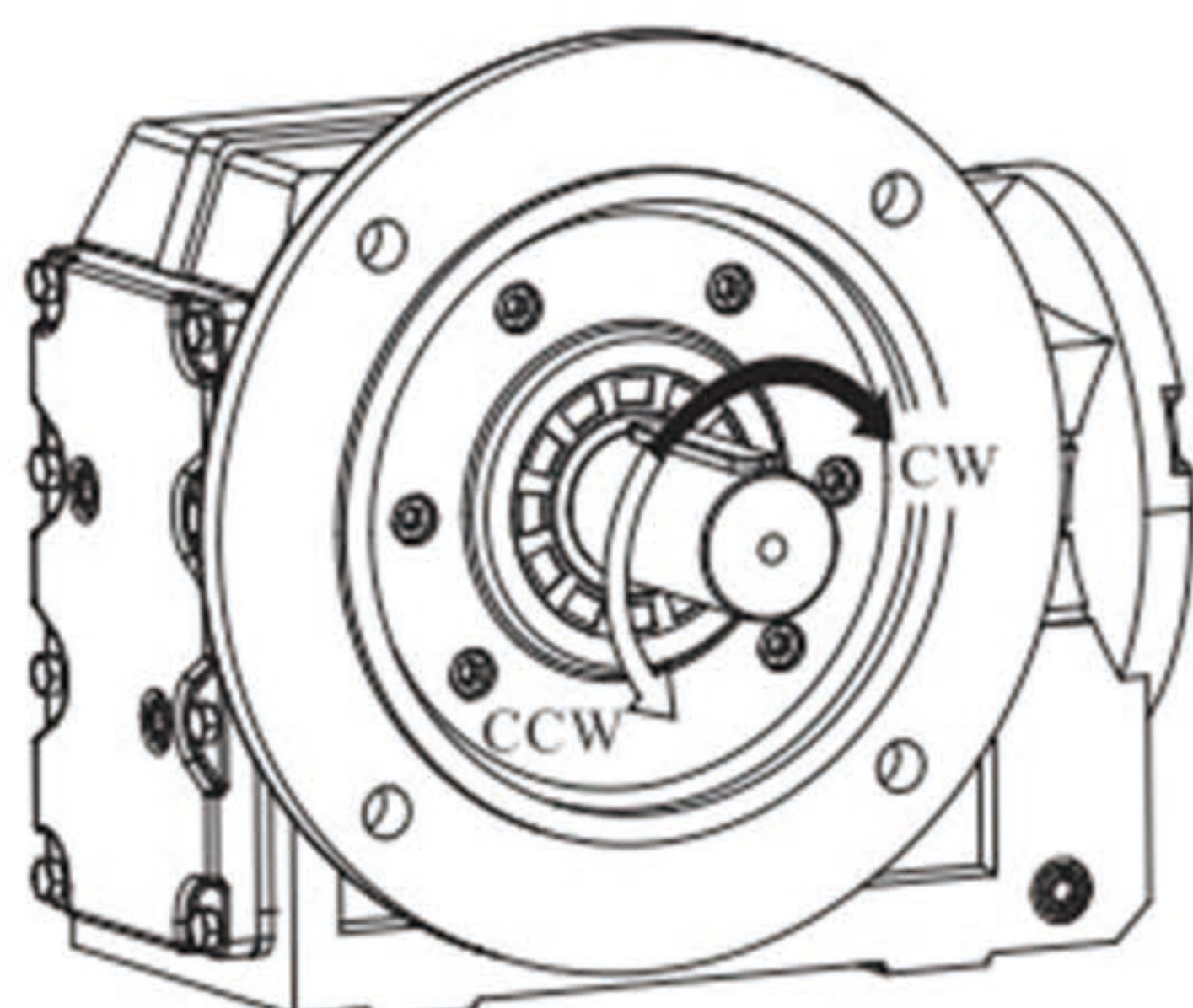
Notes:

The view direction of above figure is from the fan cover in the end of the motor to look forward.

There are three positions: A or B or A+B.



4.4.4 输出轴旋转方向 / Direction of Rotation of Output Shaft



说明:

当减速电机带逆止器时，需规定输出轴的旋转方向。

上图中，从输出轴观看，顺时针旋转规定为 CW；逆时针旋转规定为 CCW。

当减速电机采用 A+B 方式输出时（见4.3），需指出给定的旋转方向是从 A 端观看还是从 B 端观看。

Notes:

It is necessary to stipulate the direction of rotation of the output shaft if the drive has a back stop.

For above figure, the following definition applies: Looking onto the output shaft.

CW = Rotating Clockwise

CCW = Rotation Counter-clockwise

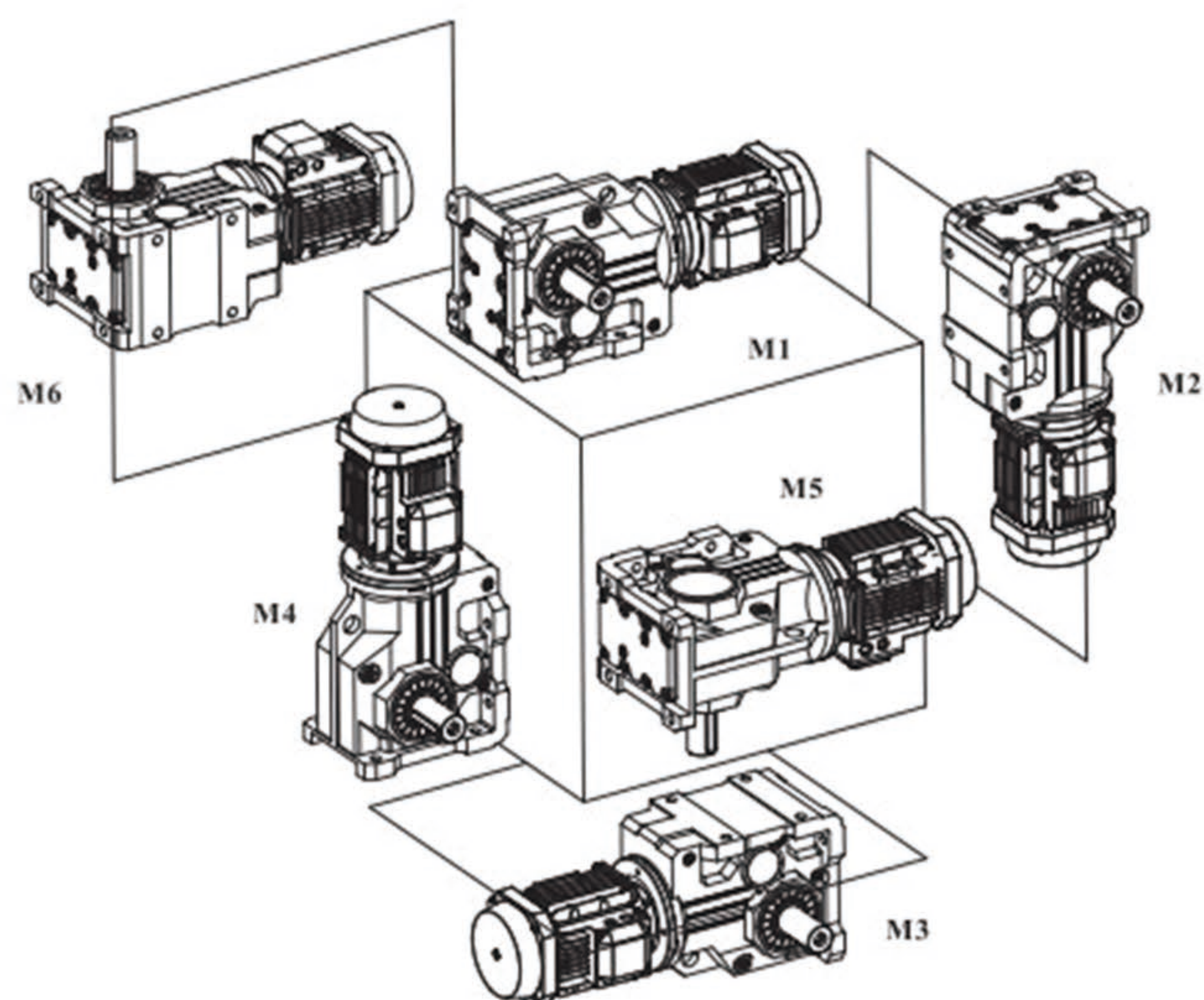
If the position of the output shaft or flange is A+B, it is necessary to stipulate for certain direction of rotation, it was looked on the A or B.

4.4.5 油位符号说明 / Oil Level Symbol Explanation

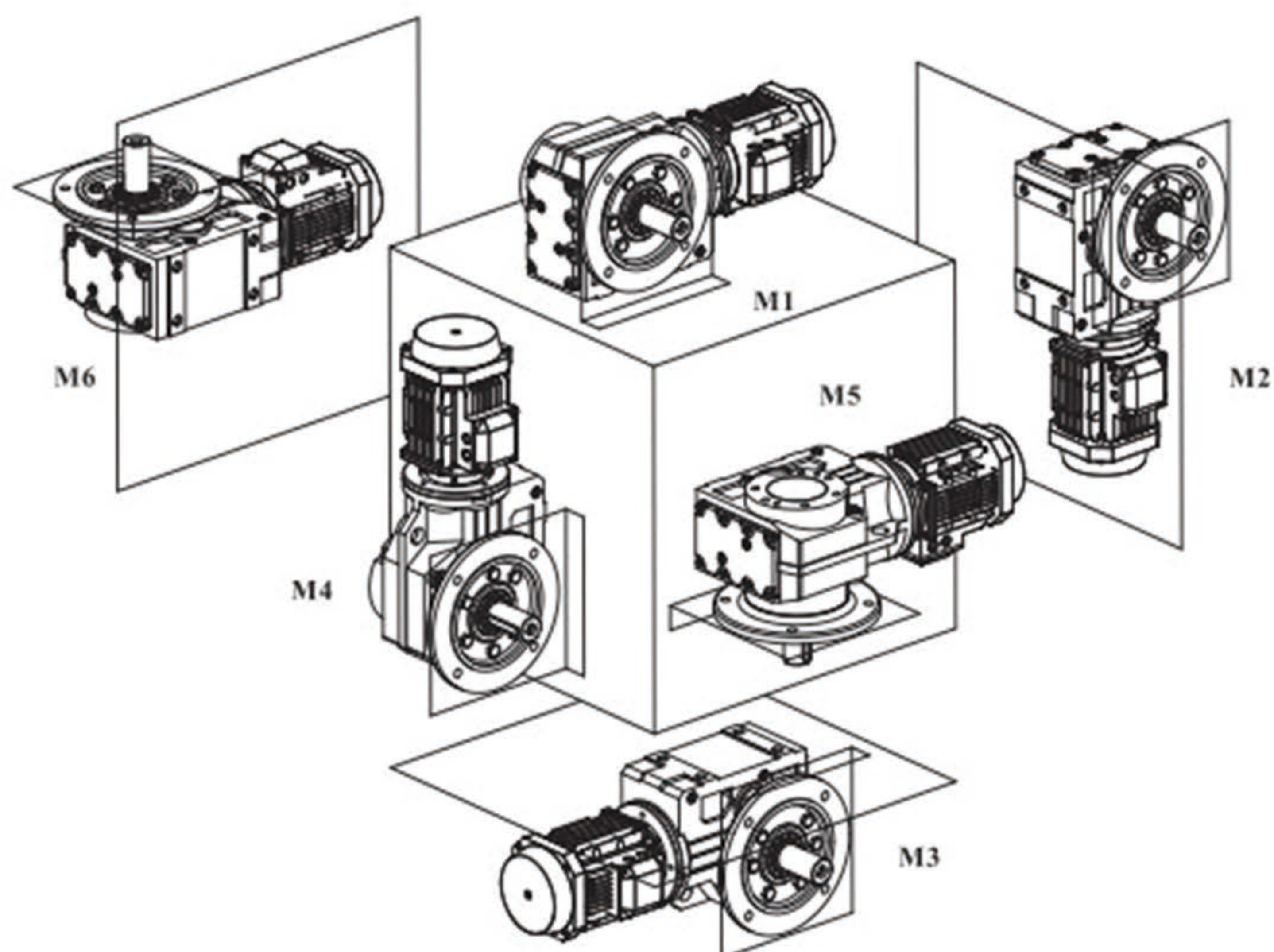
符号 Symbol	含义	Meaning
	通气帽	BREATHER VALVE
	油标	OIL LEVEL PLUG
	排油塞	OIL DRAIN PLUG

4.4.6 安装位置示意 / Mounting Position Designation

GK..安装位置示意图 / GK.. Mounting Position Designation



GKF..安装位置示意图 / GKF.. Mounting Position Designation





4.4.7 安装方位 / Mounting Positions

*→提示:

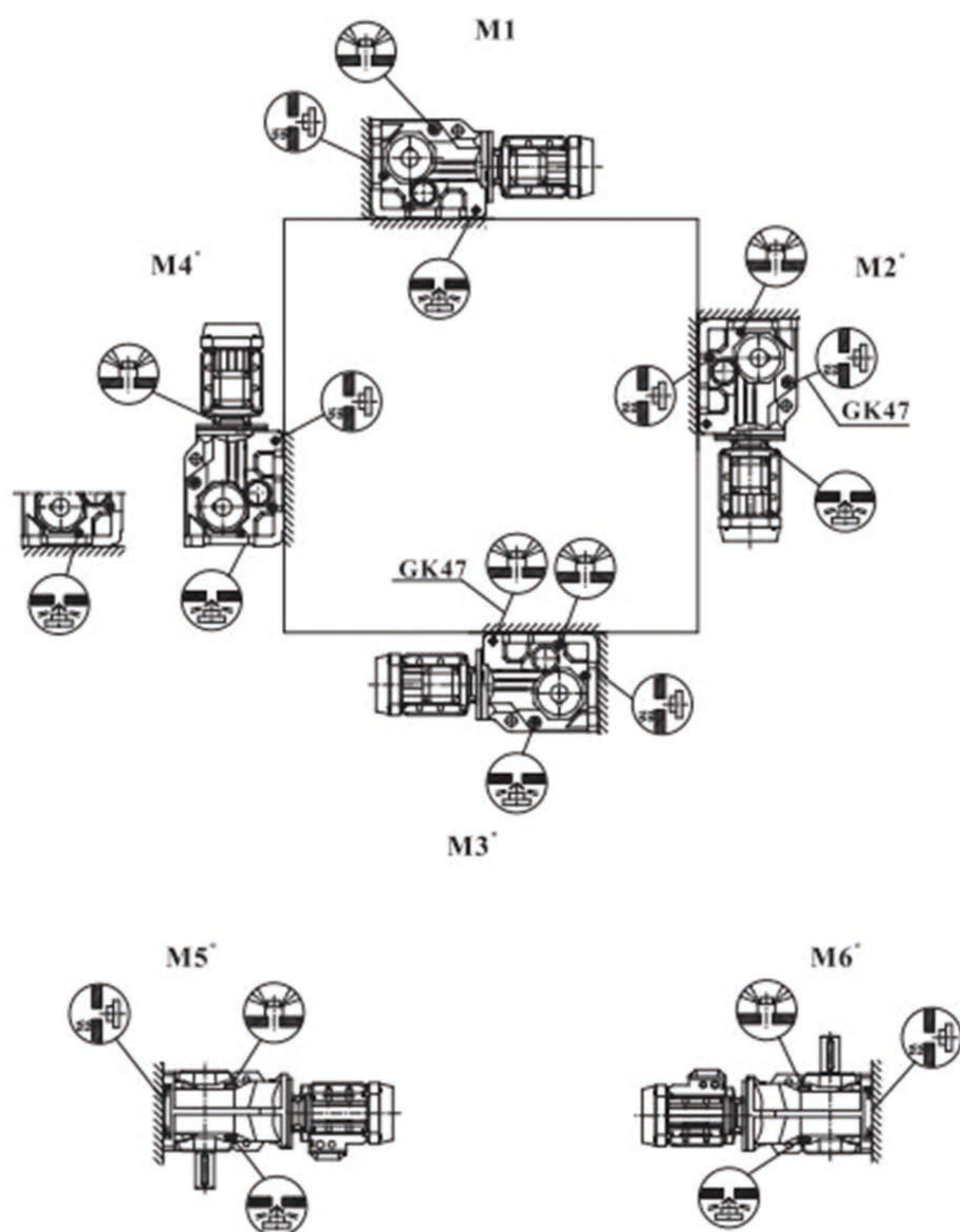
当采用下表列出的安装方式及输入转速时, 齿轮箱会产生不可忽视的搅油损失。请联系本公司。

*→Reminder:

Increased churning losses may arise in the following mounting positions. Contact Greatwall Machinery.

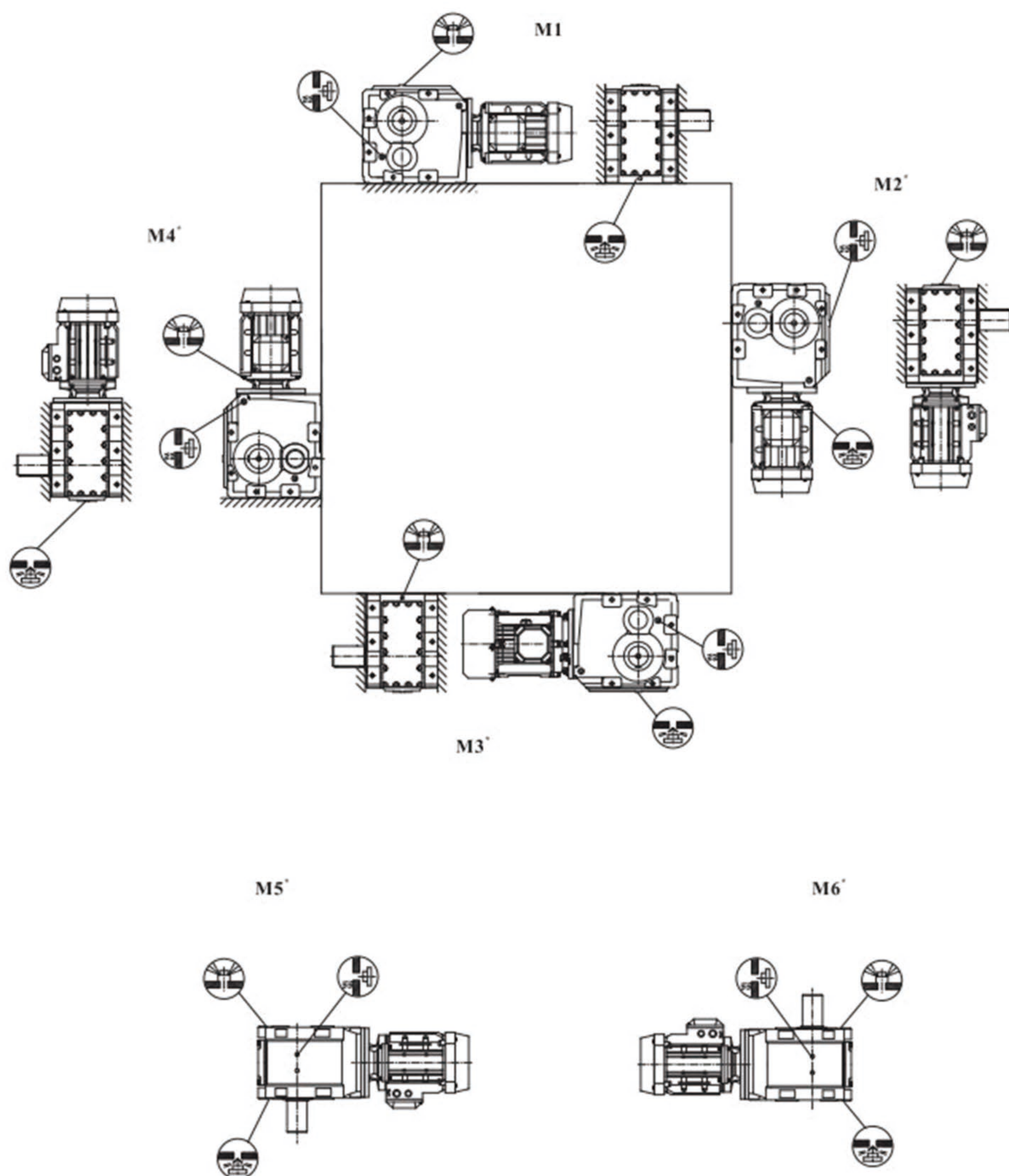
安装方式 Mounting Position	齿轮箱规格 Gear Unit Size	输入转速 Input Speed (r/min)
M2, M3, M4, M5, M6	77,87,97,107	>2500
	>107	>1500

GK/GKA..B / GKH47B~157B, GKV37B~107B



*→page 157

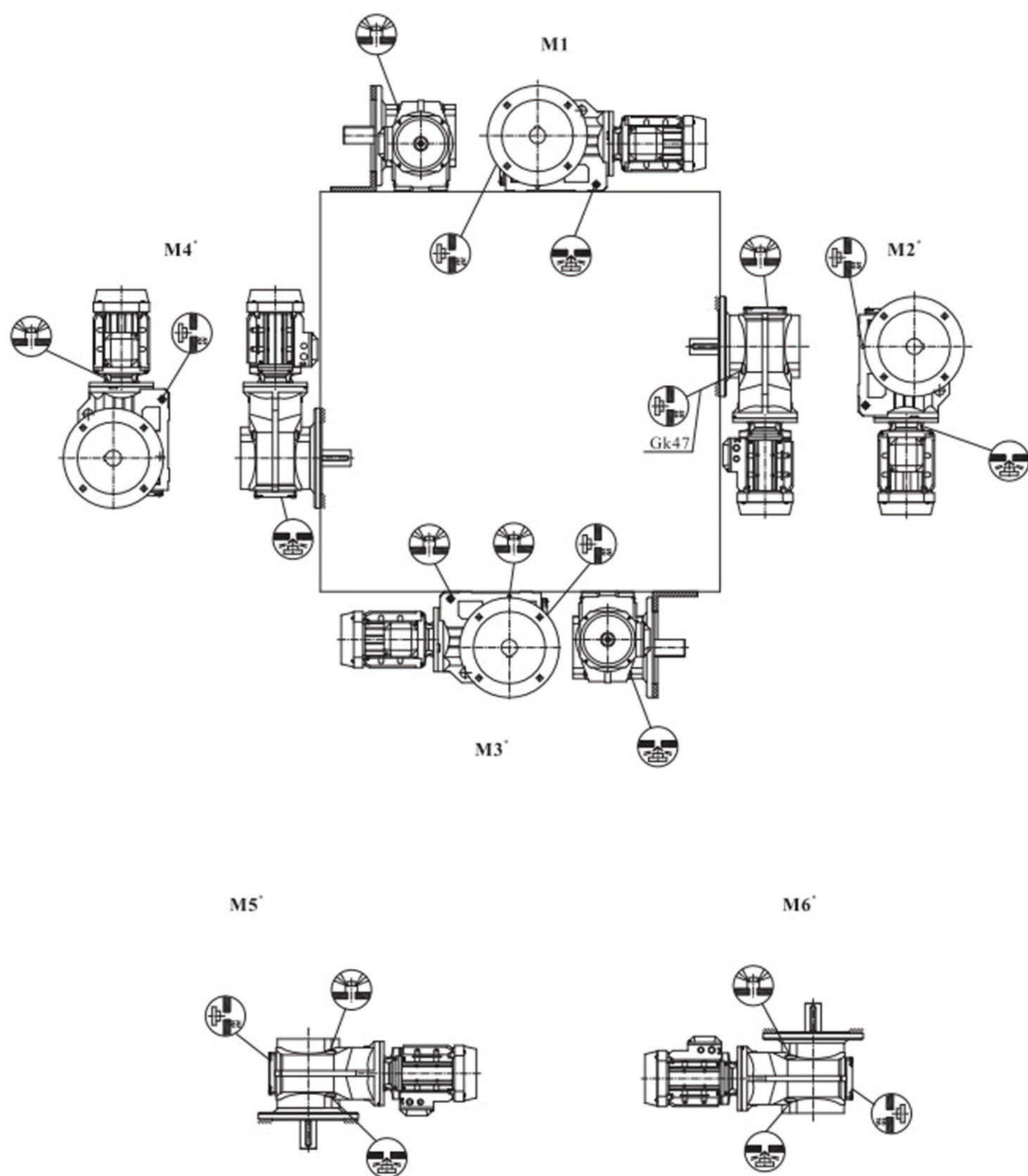
GK167~187, GKH167B~187B



* → page 157

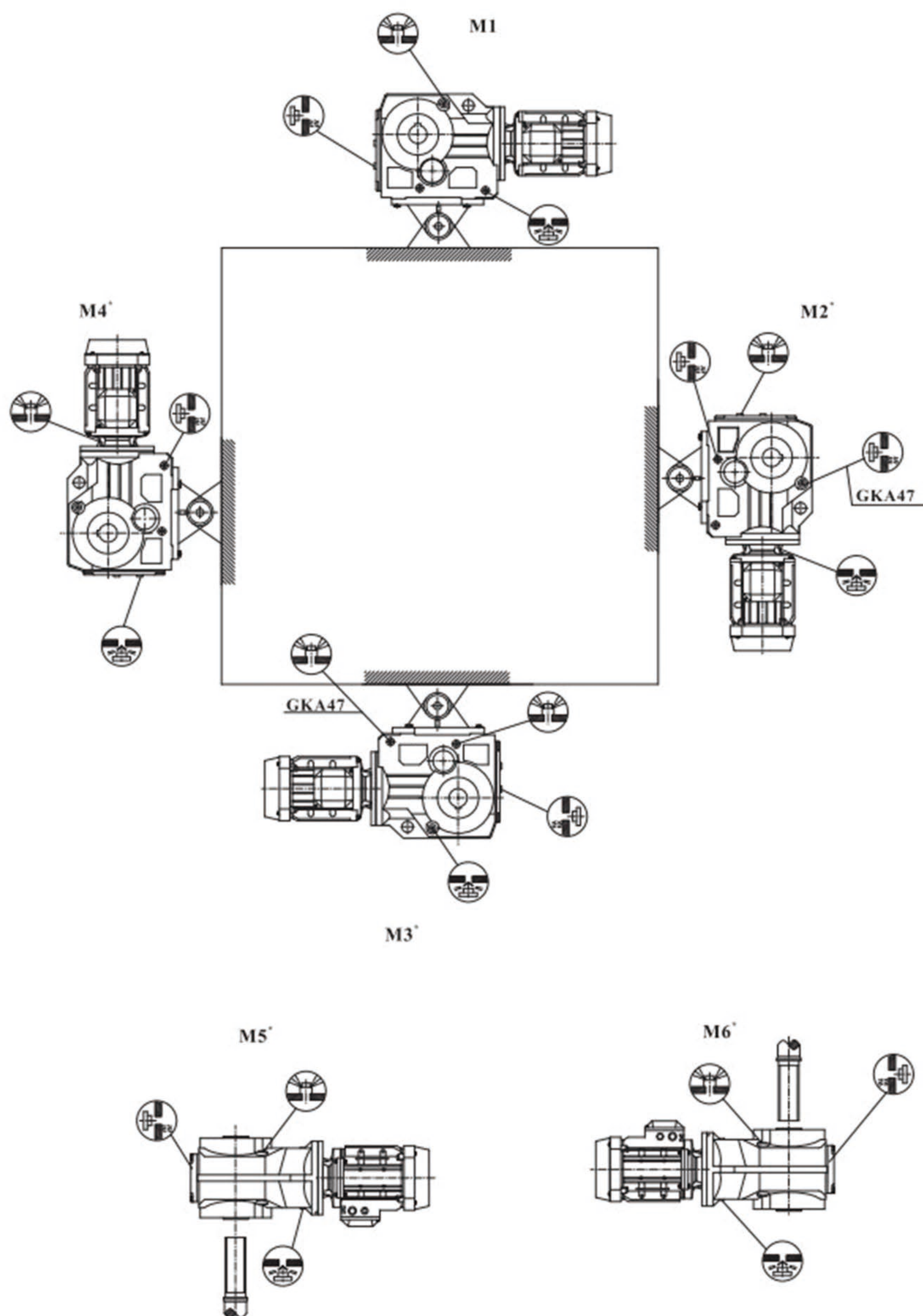


GKF/GKAF/GKHF/GKAZ/GKHZ37~157,GKVF/GKVZ37~107



* → page 157

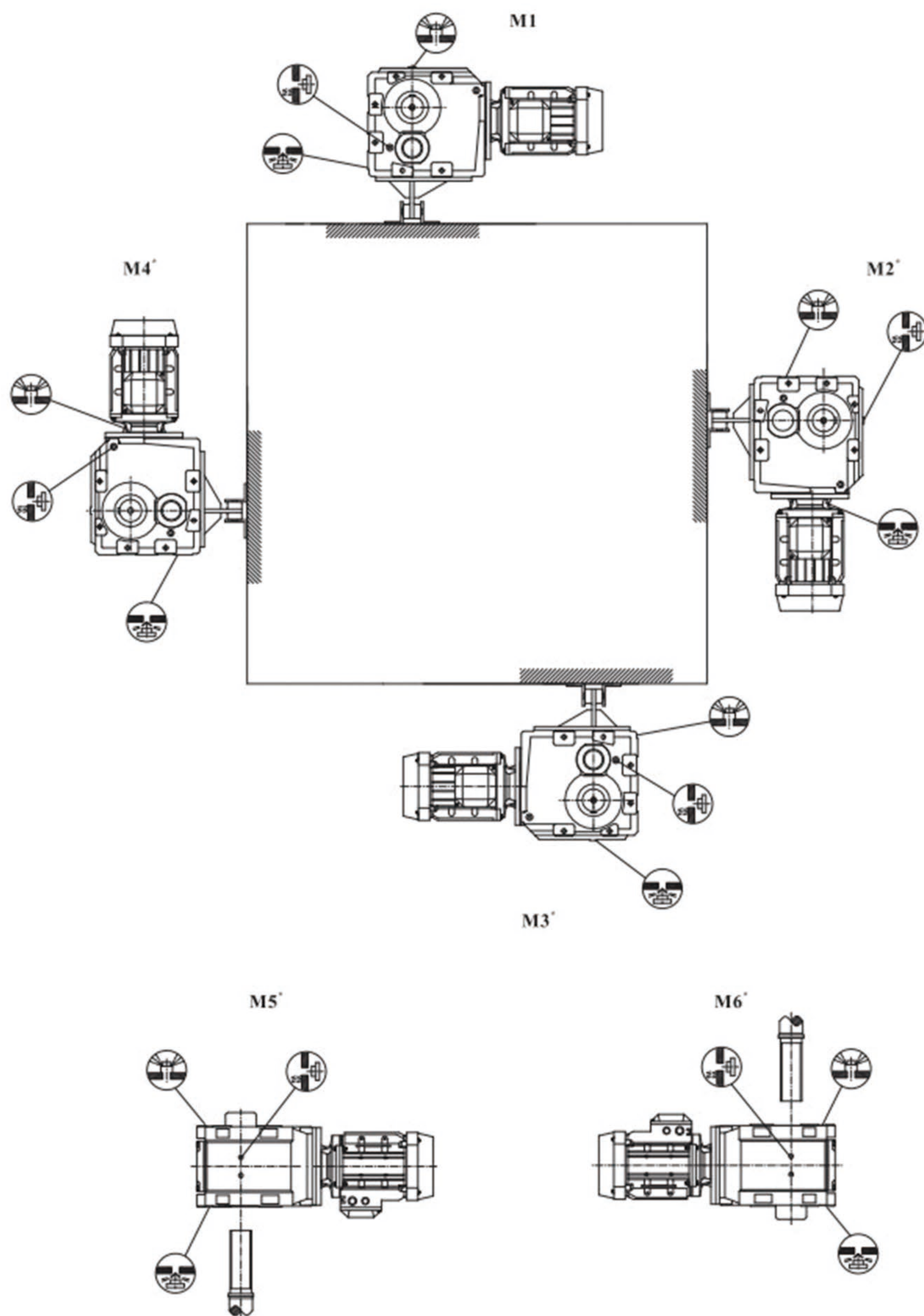
GKA/GKH37~157,GKV37~107,GKT37~97



* → page 157



GKH167~187



* → page 157

4.5 减速器组合表 / Gear Unit Combination Table

为得到特别低的输出转速，可以通过GRF齿轮箱与 GK 齿轮箱相连的方式实现。

当采用这种传动方案时，可配置电动机的功率依赖于减速机的极限输出扭矩，而不能通过电动机的额定功率和减速机的总传动比计算得出减速机的输出扭矩。

GRF series of gear units and GK series of gear units can be connected together to get special output speed.

For this transmission scheme, the power of the motor depends on the limit output torque of the gear-box, instead of the output torque calculated based on rated power of the motor and the transmission ratio of the gear unit.

GK..与GRF..齿轮箱可能的组合 / Possible Combination of GK.. and GRF..

	GRF17	GRF27	GRF37	GRF47	GRF57	GRF67	GRF77	GRF87	GRF97	GRF107
GK..37										
GK..47										
GK..57										
GK..67										
GK..77										
GK..87										
GK..97										
GK..107										
GK..127										
GK..157										
GK..167										
GK..187										

说明：

- ☒ : 表示可能的组合。
- ☐ : 表示不允许的组合。

Notes:

- ☒ : Possible Combination.
- ☐ : Impossible Combination.



4.6 GK..功率配置 / GK..Power Configuration

GK37 n ₁ =1400 1/min 200Nm									
n ₂ [1/min]	M _{2max} [Nm]	Fr [N]	i	0.12 ~0.55	0.75 1.10	1.50	2.20		
13.0	200	5640	106.38						
14.0	200	5640	97.81						
17.0	200	5640	83.69						
19.0	200	5520	72.54						
21.0	200	5360	67.80						
24.0	200	5020	58.60						
28.0	200	4660	49.79						
31.0	200	4420	44.46						
37.0	200	4100	37.97						
39.0	200	3970	35.57						
47.0	200	3650	29.96						
49.0	200	3580	28.83						
56.0	200	3330	24.99						
60.0	195	3260	23.36						
69.0	185	3110	20.19						
82.0	180	2900	17.15						
91.0	175	2780	15.31						
107	165	2650	13.08						
115	160	2600	12.14						
133	160	2410	10.49						
157	160	2200	8.91						
176	155	2110	7.96						
206	150	1980	6.80						
220	145	1950	6.37						
261	140	1810	5.36						
352	125	1660	3.98						
GK47 n ₁ =1400 1/min 400Nm									
n ₂ [1/min]	M _{2max} [Nm]	Fr [N]	i	0.12 ~0.55	0.75 1.10	1.50	2.20 3.00		
11.0	400	5920	131.87						
12.0	400	5920	121.48						
13.0	400	5920	104.37						
15.0	400	5920	90.86						
16.0	400	5920	85.12						
19.0	400	5920	75.20						
20.0	400	5920	69.84						
22.0	400	5920	63.30						
25.0	400	5920	56.83						
29.0	400	5920	48.95						
30.0	400	5920	46.03						
35.0	400	5920	39.61						
40.0	400	5920	35.39						

GK47 n ₁ =1400 1/min 400Nm									
n ₂ [1/min]	M _{2max} [Nm]	Fr [N]	i	0.12 ~0.55	0.75 1.10	1.50	2.20 3.30		
45.0	400	5700	31.30						
48.0	400	5520	29.32						
54.0	400	5170	25.91						
58.0	400	4970	24.06						
64.0	400	4710	21.81						
72.0	400	4440	19.58						
83.0	380	4220	16.86						
88.0	380	4080	15.86						
103	360	3890	13.65						
115	350	3720	12.19						
119	280	4060	11.77						
133	280	3830	10.56						
154	280	3540	9.10						
164	270	3500	8.56						
190	250	3380	7.36						
213	240	3270	6.58						
241	230	3140	5.81						
302	205	2980	4.64						
GK57 n ₁ =1400 1/min 600Nm									
n ₂ [1/min]	M _{2max} [Nm]	Fr [N]	i	0.12 ~0.55	0.75 1.10	1.50	2.20 3.30	4.00	
9.60	600	7630	145.14						
11.0	600	7630	123.85						
13.0	600	7630	108.29						
14.0	600	7630	102.88						
16.0	600	7630	90.26						
18.0	600	7630	76.56						
20.0	600	7630	69.12						
23.0	600	7630	60.81						
24.0	600	7630	57.42						
29.0	600	7630	48.89						
32.0	600	7630	44.43						
36.0	600	7630	38.49						
39.0	600	7630	35.70						
46.0	600	7300	30.28						
51.0	600	6930	27.34						
58.0	600	6480	24.05						
62.0	600	6280	22.71						
72.0	575	5910	19.34						
80.0	555	5740	17.57						
92.0	535	5430	15.22						
106	510	5190	13.25						

GK

GK57 $n_1=1400$ 1/min 600Nm									
n_2 [1/min]	M_{2max} [Nm]	Fr [N]	i	0.12 ~0.55	0.75 1.10	1.50	2.20 3.30	4.00	
117	415	5150	11.92						
124	415	4990	11.26						
146	405	4650	9.59						
161	390	4520	8.71						
185	365	4360	7.55						
213	345	4180	6.57						
299	300	3800	4.69						
GK67 $n_1=1400$ 1/min 820Nm									
n_2 [1/min]	M_{2max} [Nm]	Fr [N]	i	0.18 ~0.55	0.75 1.10	1.50	2.20 3.30	4.00	5.50
9.70	820	10300	144.79						
11.0	820	10300	123.54						
13.0	820	10300	108.03						
14.0	820	10300	102.62						
16.0	820	10300	90.04						
18.0	820	10300	76.37						
20.0	820	10300	68.95						
23.0	820	10300	60.66						
24.0	820	10300	57.28						
29.0	820	10300	48.77						
32.0	820	10300	44.32						
36.0	820	10500	38.39						
39.0	820	10300	35.62						
46.0	820	10300	30.22						
51.0	820	10300	27.28						
58.0	800	10500	24.00						
62.0	780	10700	22.66						
73.0	760	10800	19.30						
80.0	740	11000	17.54						
92.0	700	11300	15.19						
106	670	11500	13.22						
112	530	12300	12.48						
132	500	11800	10.63						
145	480	11500	9.66						
167	440	11100	8.37						
192	420	10700	7.28						
269	350	9860	5.20						
GK77 $n_1=1400$ 1/min 1550Nm									
n_2 [1/min]	M_{2max} [Nm]	Fr [N]	i	0.37 0.55	0.75 1.10	1.50	2.20 3.30	4.00	5.50 7.50
7.30	1450	16100	192.18						
7.80	1450	16100	179.37						
9.10	1550	15400	154.02						
10.0	1550	15400	135.28						
11.0	1550	15400	128.52						
12.0	1550	15400	113.56						
14.0	1550	15400	97.05						
16.0	1550	15400	88.97						
18.0	1550	15400	78.07						
19.0	1550	15400	73.99						
22.0	1550	15400	64.75						
24.0	1550	15400	58.43						
27.0	1550	15400	51.18						
31.0	1550	15400	45.16						

GK77 $n_1=1400$ 1/min 1550Nm									
n_2 [1/min]	M_{2max} [Nm]	Fr [N]	i	0.37 0.55	0.75 1.10	1.50	2.20 3.30	4.00	5.50 7.50
10.0	1550	15400	135.28						
11.0	1550	15400	128.52						
12.0	1550	15400	113.56						
14.0	1550	15400	97.05						
16.0	1550	15400	88.97						
18.0	1550	15400	78.07						
19.0	1550	15400	73.99						
22.0	1550	15400	64.75						
24.0	1550	15400	58.34						
27.0	1550	15400	51.18						
31.0	1550	15400	45.16						
35.0	1550	15400	40.04						
36.0	1550	15700	38.39						
40.0	1550	15400	35.20						
45.0	1550	15400	30.89						
48.0	1550	15400	29.27						
55.0	1550	15400	25.62						
61.0	1550	15400	23.08						
69.0	1500	15700	20.25						
78.0	1450	16100	17.87						
88.0	1400	15500	15.84						
104	1340	14800	13.52						
113	1000	15100	12.36						
129	990	14400	10.84						
146	940	13900	9.56						
165	890	13500	8.48						
193	820	13100	7.24						
GK77 $n_1=1400$ 1/min 1550Nm									
n_2 [1/min]	M_{2max} [Nm]	Fr [N]	i	11.0					
7.30	1450	16100	192.18						
7.80	1450	16100	179.37						
9.10	1550	15400	154.02						
10.0	1550	15400	135.28						
11.0	1550	15400	128.52						
12.0	1550	15400	113.56						
14.0	1550	15400	97.05						
16.0	1550	15400	88.97						
18.0	1550	15400	78.07						
19.0	1550	15400	73.99						
22.0	1550	15400	64.75						
24.0	1550	15400	58.43						
27.0	1550	15400	51.18						
31.0	1550	15400	45.16						



GK77 $n_1=1400$ 1/min 1550Nm									
n_2 [1/min]	M_{2max} [Nm]	Fr [N]	i	11.0					
35.0	1550	15400	40.04						
36.0	1550	15700	38.39						
40.0	1550	15400	35.20						
45.0	1550	15400	30.89						
48.0	1550	15400	29.27						
55.0	1550	15400	25.62						
61.0	1550	15400	23.08						
69.0	1500	15700	20.25						
78.0	1450	16100	17.87						
88.0	1400	15500	15.84						
104	1340	14800	13.52						
113	1000	15100	12.36						
129	990	14400	10.84						
146	940	13900	9.56						
165	890	13500	8.48						
193	820	13100	7.24						

GK87 $n_1=1400$ 1/min 2700Nm									
n_2 [1/min]	M_{2max} [Nm]	Fr [N]	i	7.5 11.0	1.50	2.20 3.00	4.00	5.50 7.50	11.0 15.0
7.10	2700	27300	197.37						
8.00	2700	27300	174.19						
8.50	2700	27300	164.34						
9.50	2700	27300	147.32						
11.0	2700	27300	126.91						
12.0	2700	27300	115.82						
14.0	2700	27300	102.71						
16.0	2700	27300	86.34						
18.0	2700	27300	79.34						
20.0	2700	27300	70.46						
22.0	2700	26200	63.00						
25.0	2700	25000	56.64						
28.0	2700	23500	49.16						
32.0	2600	22800	44.02						
38.0	2500	21400	36.52						
45.0	2700	19200	31.39						
50.0	2600	18500	27.88						
56.0	2500	18000	24.92						
62.0	2300	17900	22.41						
72.0	2300	16800	19.45						
80.0	2200	16300	17.42						
88.0	1800	16000	16.00						
97.0	2100	15300	14.45						
111	2000	14800	12.56						
125	1500	14900	11.17						

GK87 $n_1=1400$ 1/min 2700Nm									
n_2 [1/min]	M_{2max} [Nm]	Fr [N]	i	7.5 11.0	1.50	2.20 3.00	4.00	5.50 7.50	11.0 15.0
140	1500	14200	10.00						
169	1400	13500	8.29						
194	1300	13200	7.21						

GK87 $n_1=1400$ 1/min 2700Nm									
n_2 [1/min]	M_{2max} [Nm]	Fr [N]	i	18.5 22.0					
7.10	2700	27300	197.37						
8.00	2700	27300	174.19						
8.50	2700	27300	164.34						
9.50	2700	27300	147.32						
11.0	2700	27300	126.91						
12.0	2700	27300	115.82						
14.0	2700	27300	102.71						
16.0	2700	27300	86.34						
18.0	2700	27300	79.34						
20.0	2700	27300	70.46						
22.0	2700	26200	63.00						
25.0	2700	25000	56.64						
28.0	2700	23500	49.16						
32.0	2600	22800	44.02						
38.0	2500	21400	36.52						
45.0	2700	19200	31.39						
50.0	2600	18500	27.88						
56.0	2500	18000	24.92						
62.0	2300	17900	22.41						
72.0	2300	16800	19.45						
80.0	2200	16300	17.42						
88.0	1800	16000	16.00						
97.0	2100	15300	14.45						
111	2000	14800	12.56						
125	1500	14900	11.17						
140	1500	14200	10.00						
169	1400	13500	8.29						
194	1300	13200	7.21						

GK97 $n_1=1400$ 1/min 4300Nm									
n_2 [1/min]	M_{2max} [Nm]	Fr [N]	i	1.10	1.50	2.20 3.00	4.00	5.50 7.50	11.0 15.0
8.00	4300	40000	176.05						
9.10	4300	40000	153.21						
10.0	4300	40000	140.28						
11.0	4300	40000	123.93						
13.0	4300	40000	105.13						
14.0	4300	40000	96.80						

GK97 $n_1=1400$ 1/min 4300Nm									
n_2 [1/min]	M_{2max} [Nm]	Fr [N]	i	1.10	1.50	2.20 3.00	4.00	5.50 7.50	11.0 15.0
16.0	4300	38800	86.52						
18.0	4300	37100	77.89						
20.0	4300	35600	70.54						
22.0	4300	33800	62.55						
25.0	4300	32300	56.55						
29.0	4300	30000	47.93						
33.0	4300	28300	41.87						
37.0	4300	27100	38.30						
41.0	4300	25700	34.23						
45.0	4300	24500	30.82						
50.0	4300	23300	27.91						
57.0	4300	22000	24.75						
63.0	4300	20900	22.37						
74.0	4300	19100	18.96						
85.0	4300	17800	16.56						
101	4300	16100	13.85						
117	3890	16200	11.99						
134	2870	16400	10.41						
161	2660	15800	8.71						
186	2400	15700	7.54						

GK97 $n_1=1400$ 1/min 4300Nm									
n_2 [1/min]	M_{2max} [Nm]	Fr [N]	i	18.5 22.0	30.0				
8.00	4300	40000	176.05						
9.10	4300	40000	153.21						
10.0	4300	40000	140.28						
11.0	4300	40000	123.93						
13.0	4300	40000	105.13						
14.0	4300	40000	96.80						
16.0	4300	38800	86.52						
18.0	4300	37100	77.89						
20.0	4300	35600	70.54						
22.0	4300	33800	62.55						
25.0	4300	32300	56.55						
29.0	4300	30000	47.93						
33.0	4300	28300	41.87						
37.0	4300	27100	38.30						
41.0	4300	25700	34.23						
45.0	4300	24500	30.82						
50.0	4300	23300	27.91						
57.0	4300	22000	24.75						
63.0	4300	20900	22.37						
74.0	4300	19100	18.96						
85.0	4300	17800	16.56						

GK97 $n_1=1400$ 1/min 4300Nm									
n_2 [1/min]	M_{2max} [Nm]	Fr [N]	i	18.5 22.0	30.0				
101	4300	16100	13.85						
117	3890	16200	11.99						
134	2870	16400	10.41						
161	2660	15800	8.71						
186	2400	15700	7.54						

GK107 $n_1=1400$ 1/min 8000Nm									
n_2 [1/min]	M_{2max} [Nm]	Fr [N]	i	3.00	4.00	5.50 7.50	11.0 15.0	18.5 22.0	30.0 ~45.0
9.80	8000	65000	143.47						
12.0	8000	61500	121.46						
12.0	8000	59300	112.41						
14.0	8000	56200	100.75						
15.0	8000	53500	90.96						
17.0	8000	50900	82.61						
19.0	8000	47900	73.30						
21.0	8000	45400	66.52						
24.0	8000	41700	57.17						
28.0	7840	39300	49.90						
33.0	7360	37900	42.33						
38.0	7200	35800	37.00						
43.0	7200	33200	32.69						
45.0	6800	34200	31.28						
48.0	7200	30700	29.00						
53.0	7200	28800	26.32						
62.0	7200	25800	22.62						
71.0	7200	23200	19.74						
84.0	7050	21000	16.75						
96.0	6890	19500	14.64						
104	4300	29200	13.43						
119	4300	27500	11.73						
141	4190	25800	9.94						
161	4070	24600	8.69						
190	3600	24400	7.35						

GK127 $n_1=1400$ 1/min 13000Nm									
n_2 [1/min]	M_{2max} [Nm]	Fr [N]	i	7.50	11.0 15.0	18.5 22.0	30.0 ~45.0	55.0 ~90.0	
9.60	13000	79200	146.07						
10.0	13000	79200	136.14						
11.0	13000	79200	122.48						
13.0	13000	79200	110.18						
16.0	13000	75100	89.89						
17.0	13000	72100	81.98						
20.0	13000	67700	70.95						



GK127 n ₁ =1400 1/min 13000Nm									
n ₂ [1/min]	M _{2max} [Nm]	Fr [N]	i	7.50	11.0 15.0	18.5 22.0	30.0 ~45.0	55.0 ~90.0	
22.0	13000	64000	62.60						
26.0	13000	59800	54.07						
29.0	13000	56500	47.82						
35.0	13000	52000	40.19						
39.0	13000	49400	36.25						
45.0	13000	45900	31.37						
51.0	13000	43000	27.68						
59.0	13000	39800	23.91						
66.0	13000	37200	21.15						
79.0	13000	32600	17.77						
98.0	12100	31000	14.35						
109	8530	35400	12.79						
130	8000	33900	10.74						
161	7230	32500	8.68						

GK157 n ₁ =1400 1/min 18000Nm									
n ₂ [1/min]	M _{2max} [Nm]	Fr [N]	i	11.0 15.0	18.5 22.0	30.0 ~45.0	55.0 ~90.0	110 132	160
9.30	18000	112200	150.41						
11.0	18000	106500	122.39						
14.0	18000	98000	100.22						
15.0	18000	94400	91.65						
18.0	18000	88900	79.75						
20.0	18000	84200	70.38						
23.0	18000	79000	61.02						
26.0	18000	74900	54.29						
30.0	18000	70000	46.79						
37.0	18000	63400	38.02						
45.0	18000	57500	31.30						
51.0	18000	54000	27.62						
58.0	18000	50000	23.95						
66.0	18000	47000	21.31						
76.0	18000	43200	18.37						
94.0	18000	38200	14.92						
111	17000	36700	12.65						

GK167 n ₁ =1400 1/min 32000Nm									
n ₂ [1/min]	M _{2max} [Nm]	Fr [N]	i	11.0 15.0	18.5 22.0	30.0 ~45.0	55.0 ~90.0	110 132	160
8.50	32000	150000	164.50						
10.0	32000	150000	134.99						
13.0	32000	150000	109.83						
16.0	32000	147200	87.86						
18.0	32000	140100	78.14						
21.0	32000	132000	68.07						

GK167 n ₁ =1400 1/min 32000Nm									
n ₂ [1/min]	M _{2max} [Nm]	Fr [N]	i	11.0 15.0	18.5 22.0	30.0 ~45.0	55.0 ~90.0	110 132	160
23.0	32000	125600	60.74						
27.0	32000	117000	51.77						
33.0	32000	107400	42.89						
38.0	32000	99700	36.61						
43.0	32000	93700	32.25						
49.0	32000	88600	28.77						
57.0	32000	81700	24.52						
69.0	32000	74000	20.32						
81.0	32000	67900	17.34						

GK187 n ₁ =1400 1/min 50000Nm									
n ₂ [1/min]	M _{2max} [Nm]	Fr [N]	i	18.5 22.0	30.0 ~45.0	55.0 ~90.0	110 132	160	
7.80	50000	190000	179.86						
8.50	50000	190000	165.21						
9.70	50000	190000	144.59						
11.0	50000	188200	129.69						
12.0	50000	177200	112.60						
14.0	50000	169900	102.16						
16.0	50000	159000	88.00						
19.0	50000	147000	73.96						
22.0	50000	137600	64.04						
26.0	50000	126100	53.36						
31.0	50000	116600	45.50						
33.0	50000	112700	42.51						
36.0	50000	107200	38.57						
42.0	50000	99100	33.23						
50.0	50000	90200	27.92						
58.0	47600	86800	24.18						
69.0	43900	84000	20.15						
81.0	41400	80800	17.18						

4.7 GK..性能参数 / GK.. Performance Parameters

n ₂ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P _i =0.12kw						
0.08	10800	17550	80300	1.20	GK 127 GRF77 GKF 127 GRF77 GKA 127 GRF77 GKAF127 GRF77	Y..63M _i -4 AM63 AD2
0.09	9890	16006	80700	1.30		
0.09	9260	14975	81000	1.40		
0.11	7690	12440	81600	1.70		
0.13	6750	10915	81900	1.95		
0.14	6070	9819	82000	2.10		
0.16	5180	8443	82300	2.50		
0.18	4620	7482	82400	2.80		
0.10	8850	14311	65000	0.90	GK 107 GRF77 GKF 107 GRF77 GKA 107 GRF77 GKAF107 GRF77	Y..63M _i -4 AM63 AD2
0.11	7550	12211	65000	1.05		
0.13	6600	10677	65000	1.20		
0.14	5890	9524	65000	1.35		
0.17	5150	8328	65000	1.55		
0.19	4490	7270	65000	1.80		
0.22	3700	6184	65000	2.20		
0.24	3210	5662	65000	2.50		
0.27	2910	5138	65000	2.70		
0.32	2670	4359	65000	3.00		
0.17	5460	8054	39400	0.80	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..63M _i -4 AM63 AD2
0.20	4420	6970	40000	0.95		
0.23	4000	6027	40000	1.05		
0.26	3650	5391	40000	1.20		
0.30	3020	4669	40000	1.40		
0.34	2730	4082	40000	1.55		
0.39	2370	3583	40000	1.80		
0.44	2090	3108	40000	2.00		
0.50	1770	2757	40000	2.40		
0.57	1650	2419	40000	2.60		
0.65	1420	2123	40000	3.00		
0.74	1270	1856	40000	3.40		
0.85	1040	1625	40000	4.10		
0.96	890	1430	40000	4.80		
1.10	860	1261	40000	5.00	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..63M _i -4 AM63 AD2
1.20	755	1102	40000	5.70		
0.26	3470	5240	26200	0.80	GK 87 GRF57 GKF 87 GRF57 GKA 87 GRF57 GKAF 87 GRF57	Y..63M _i -4 AM63 AD2
0.30	2890	4562	27000	0.95		
0.34	2680	4037	27300	1.00		
0.38	2390	3609	27600	1.15		
0.44	2060	3107	28000	1.30		
0.51	1730	2728	28300	1.55		
0.58	1530	2371	28400	1.75		
0.66	1430	2088	28500	1.90		
0.74	1270	1854	28600	2.10		
0.83	1130	1657	28700	2.40		
0.97	960	1415	28800	2.80		
1.10	830	1229	28900	3.20		
1.30	720	1078	28900	3.70		
1.40	610	951	29000	4.40		
1.60	520	837	29000	5.20		
1.90	450	726	29000	5.90		
0.51	1840	2717	11500	0.85	GK 77 GRF37 GKF 77 GRF37 GKA 77 GRF37 GKAF 77 GRF37	Y..63M _i -4 AM63 AD2
0.58	1530	2370	15500	1.00		
0.67	1430	2050	16100	1.10		
0.78	1220	1772	17300	1.25		
0.91	1040	1514	18100	1.50		
0.99	960	1388	18500	1.60		
1.10	840	1218	18900	1.85		
1.30	735	1053	19200	2.10		
1.50	645	924	19400	2.40		
1.70	570	815	19600	2.70		
2.00	445	709	19800	3.50		
2.20	390	622	19900	3.90		
1.00	960	1351	6940	0.85	GK 67 GRF37 GKF 67 GRF37 GKA 67 GRF37 GKAF 67 GRF37	Y..63M _i -4 AM63 AD2
1.20	820	1171	10300	1.00		
1.30	720	1034	11100	1.15		
1.50	600	903	11900	1.35		
1.70	570	793	12100	1.45		
2.00	455	697	12600	1.80		
2.20	400	613	12800	2.00		
2.60	350	542	13000	2.30	GK 67 GRF37 GKF 67 GRF37 GKA 67 GRF37 GKAF 67 GRF37	Y..63M _i -4 AM63 AD2
2.90	325	471	13000	2.50		
3.30	270	420	13000	3.00		
3.80	245	361	13000	3.30		
4.30	215	323	13000	3.80		
5.00	181	279	13000	4.50		
5.60	159	246	13000	5.20		
6.40	139	217	13000	5.90		
1.50	605	906	7580	1.00	GK 57 GRF37 GKF 57 GRF37 GKA 57 GRF37 GKAF 57 GRF37	Y..63M _i -4 AM63 AD2
1.70	545	806	8060	1.10		
2.00	455	699	8620	1.30		
2.20	400	615	8870	1.50		
2.50	350	544	9080	1.70		
2.90	320	473	9190	1.85		
3.30	270	421	9390	2.20		
3.80	245	362	9470	2.40	GK 47 GRF37 GKF 47 GRF37 GKA 47 GRF37 GKAF 47 GRF37	Y..63M _i -4 AM63 AD2
4.30	215	319	9570	2.80		
4.90	181	280	9690	3.30		
5.60	160	246	9760	3.80		
6.40	141	215	9810	4.30		
7.20	126	192	9850	4.80		
2.50	380	552	6170	1.05		
2.80	320	495	6840	1.25	GK 37 GRF17 GKF 37 GRF17 GKA 37 GRF17 GKAF 37 GRF17	Y..63M _i -4 AM63 AD2
3.20	285	426	7160	1.40		
3.70	240	375	7510	1.65		
4.20	225	327	7620	1.75		
4.80	198	289	7780	2.00		
4.00	240	346	3540	0.80		
4.50	205	304	5570	0.95		
5.20	189	267	5760	1.05	GK 37 GRF17 GKF 37 GRF17 GKA 37 GRF17 GKAF 37 GRF17	Y..63M _i -4 AM63 AD2
5.90	163	234	6010	1.20		
6.70	142	205	6180	1.40		
7.60	124	181	6300	1.60		
8.60	109	160	6400	1.85		



n_1 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
P ₁ =0.12kw						
10.0	91	136	6490	2.20	GK 37 GRF17 GKF 37 GRF17 GKA 37 GRF17 GKAF 37 GRF17	Y..63M ₁ -4 AM63 -
9.50	120	145.14	9870	5.00	GK 57 GKF 57 GKA 57 GKAF 57	Y..63M ₁ -4 AM63 AD2
11.0	103	123.85	9920	5.80		
13.0	90	108.29	9950	6.70		
13.0	85	102.88	9960	7.00		
15.0	75	90.26	9990	8.00		
10.0	110	131.87	8140	3.60	GK 47 GKF 47 GKA 47 GKAF 47	Y..63M ₁ -4 AM63 AD2
11.0	101	121.48	8170	4.00		
13.0	88	106.38	6500	2.30	GK 37 GKF 37 GKA 37 GKAF 37	Y..63M ₁ -4 AM63 AD1
14.0	81	97.81	6530	2.50		
16.0	70	83.69	6570	2.90		
19.0	60	72.54	6600	3.30		
20.0	56	67.8	6610	3.60		
24.0	49	58.6	6430	4.10		
28.0	41	49.79	6130	4.80		
31.0	37	44.46	5930	5.40		
36.0	32	37.97	5660	6.40		
39.0	30	35.57	5550	6.80		
46.0	25	29.96	5270	8.00	GK 37 GKF 37 GKA 37 GKAF 37	Y..63M ₁ -4 AM63 AD2
48.0	24	28.83	5200	8.40		
55.0	21	24.99	4980	9.60		
59.0	19	23.36	4880	10.0		
68.0	17	20.19	4660	11.0		
80.0	14	17.15	4430	13.0		
90.0	13	15.31	4280	14.0		
105	11	13.08	4070	15.0		
114	10	12.14	3970	16.0		
P ₁ =0.18kw						
0.09	15700	14975	74400	0.80	GK 127 GRF77 GKF 127 GRF77 GKA 127 GRF77 GKAF127 GRF77	Y..63M ₂ -4 AM63 AD2
0.11	13100	12440	79100	1.00		
0.12	11500	10915	80000	1.15		
0.13	10300	9819	80500	1.25		
0.16	8870	8443	81100	1.45		
0.18	7880	7482	81500	1.65		
0.20	6910	6565	81800	1.90		
0.23	5880	5804	82100	2.20		
0.26	5210	5027	82300	2.50		
0.30	4480	4423	82400	2.90		
0.34	3900	3889	82500	3.30		
0.40	3240	3311	82600	4.00		
0.16	8770	8328	65000	0.90	GK 107 GRF77 GKF 107 GRF77 GKA 107 GRF77 GKAF107 GRF77	Y..63M ₂ -4 AM63 AD2
0.18	7660	7270	65000	1.05		
0.21	6410	6184	65000	1.25		
0.23	5690	5662	65000	1.40		
0.26	5160	5138	65000	1.55		
0.30	4580	4359	65000	1.75		

n_1 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
$P_1=0.18\text{kw}$						
0.35	4000	3810	65000	2.00	GK 107 GRF77 GKF 107 GRF77 GKA 107 GRF77 GKAF 107 GRF77	Y..63M ₂ -4 AM63 AD2
0.39	3400	3358	65000	2.40		
0.44	3080	2977	65000	2.60		
0.51	2690	2599	65000	3.00		
0.58	2310	2286	65000	3.40		
0.28	5050	4669	39800	0.85	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..63M ₂ -4 AM63 AD2
0.32	4530	4082	40000	0.95		
0.37	3940	3583	40000	1.10		
0.42	3450	3108	40000	1.25		
0.48	2980	2757	40000	1.45		
0.55	2720	2419	40000	1.60		
0.62	2360	2123	40000	1.80		
0.71	2090	1856	40000	2.10		
0.81	1760	1625	40000	2.40		
0.92	1520	1430	40000	2.80		
1.00	1420	1261	40000	3.00	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..63M ₂ -4 AM63 AD3
1.20	1240	1102	40000	3.50		
1.40	1080	957	40000	4.00		
1.50	970	855	40000	4.40		
1.80	770	743	40000	5.60		
2.00	690	652	40000	6.20		
0.42	3430	3107	26200	0.80	GK 87 GRF57 GKF 87 GRF57 GKA 87 GRF57 GKAF 87 GRF57	Y..63M ₂ -4 AM63 AD2
0.48	2920	2728	27000	0.90		
0.56	2560	2371	27400	1.05		
0.63	2350	2088	27700	1.15		
0.71	2080	1854	28000	1.30		
0.80	1860	1657	28200	1.45	GK 87 GRF57 GKF 87 GRF57 GKA 87 GRF57 GKAF 87 GRF57	Y..63M ₂ -4 AM63 AD2
0.93	1590	1415	28400	1.70		
1.10	1380	1229	28600	1.95		
1.20	1200	1078	28700	2.20		
1.40	1030	951	28800	2.60		
1.60	890	837	28800	3.00		
1.80	775	726	28900	3.50		
0.87	1710	1514	14100	0.90	GK 77 GRF37 GKF 77 GRF37 GKA 77 GRF37 GKAF 77 GRF37	Y..63M ₂ -4 AM63 AD2
0.95	1570	1388	15200	1.00		
1.10	1380	1218	16500	1.10		
1.20	1200	1053	17400	1.30		
1.40	1050	924	18100	1.45	GK 77 GRF37 GKF 77 GRF37 GKA 77 GRF37 GKAF 77 GRF37	Y..63M ₂ -4 AM63 AD2
1.60	930	815	18600	1.65		
1.90	760	709	19100	2.00		
2.10	665	622	19300	2.30		
2.40	600	552	19500	2.60		
2.70	525	485	19600	2.90		
3.10	465	428	19800	3.30		
3.60	410	367	19800	3.80		
1.70	920	793	9240	0.90	GK 67 GRF37 GKF 67 GRF37 GKA 67 GRF37 GKAF 67 GRF37	Y..63M ₂ -4 AM63 AD2
1.90	760	697	10800	1.05		
2.20	670	613	11500	1.20		
2.40	590	542	12000	1.40		
2.80	535	471	12200	1.50		
3.20	455	420	12600	1.80		

n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
$P_1=0.18\text{kw}$						
3.60	405	361	12800	2.00	GK 67 GRF37	Y..63M ₂ -4
4.10	360	323	12900	2.30	GKF 67 GRF37	AM63
4.70	300	279	13000	2.70	GKA 67 GRF37	AD2
					GKAF 67 GRF37	
2.40	590	544	7690	1.00		
2.80	535	473	8150	1.10		
3.10	455	421	8620	1.30	GK 57 GRF37	Y..63M ₂ -4
3.60	405	362	8840	1.45	GKF 57 GRF37	AM63
4.10	360	319	9050	1.65	GKA 57 GRF37	AD2
4.70	300	280	9270	1.95	GKAF 57 GRF37	
5.40	265	246	9400	2.20		
6.10	235	215	9510	2.50	GK 57 GRF37	Y..63M ₂ -4
6.90	210	192	9600	2.80	GKF 57 GRF37	AM63
7.90	182	166	9690	3.30	GKA 57 GRF37	AD2
					GKAF 57 GRF37	
3.50	405	375	5600	1.00		
4.00	365	327	6320	1.10		
4.60	325	289	6800	1.20		
5.20	275	256	7240	1.45	GK 47 GRF37	Y..63M ₂ -4
5.90	250	225	7450	1.60	GKF 47 GRF37	AM63
6.70	215	198	7680	1.85	GKA 47 GRF37	AD2
7.70	188	171	7840	2.10	GKAF 47 GRF37	
8.60	168	153	7930	2.40		
10.0	147	131	8020	2.70		
6.40	230	205	4860	0.85	GK 37 GRF17	Y..63M ₂ -4
7.30	200	181	5590	1.00	GKF 37 GRF17	AM63
8.20	180	160	5860	1.10	GKA 37 GRF17	
9.70	151	136	6110	1.35	GKAF 37 GRF17	
10.0	145	127	6160	1.40		
6.00	285	144.79	13000	2.90	GK 67	Y..71M ₂ -6
7.00	240	123.54	13000	3.40	GKF 67	AM71
8.00	210	108.03	13000	3.80	GKA 67	AD2
8.50	200	102.62	13000	4.00	GKAF 67	
9.10	188	144.79	13000	4.40	GK 67	Y..63M ₂ -4
11.0	161	123.54	13000	5.10	GKF 67	AM63
12.0	141	108.03	13000	5.80	GKA 67	AD2
					GKAF 67	
6.00	285	145.14	9340	2.10	GK 57	Y..71M ₂ -6
7.00	240	123.85	9480	2.40	GKF 57	AM71
8.00	210	108.29	9590	2.80	GKA 57	AD2
8.50	200	102.88	9620	3.00	GKAF 57	
9.60	178	90.26	9700	3.40		
9.10	189	145.14	9670	3.20	GK 57	Y..63M ₂ -4
11.0	161	123.85	9750	3.70	GKF 57	AM63
12.0	141	108.29	9810	4.30	GKA 57	AD2
13.0	134	102.88	9830	4.50	GKAF 57	
15.0	118	90.26	9880	5.10	GK 57	Y..63M ₂ -4
17.0	100	76.56	9920	6.00	GKF 57	AM63
					GKA 57	AD2
					GKAF 57	

n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
$P_1=0.18\text{kw}$						
6.60	260	131.87	7380	1.55		
7.20	240	121.48	7530	1.65	GK 47	Y..71M ₂ -6
8.30	205	104.37	7740	1.95	GKF 47	AM71
9.60	180	90.86	7880	2.20	GKA 47	AD2
10.0	168	85.12	7930	2.40	GKAF 47	
10.0	172	131.87	7910	2.30	GK 47	Y..63M ₂ -4
11.0	158	121.48	7970	2.50	GKF 47	AM63
13.0	136	104.37	8060	2.90	GKA 47	AD2
					GKAF 47	
15.0	118	90.86	8120	3.40	GK 47	Y..63M ₂ -4
16.0	111	85.12	8140	3.60	GKF 47	AM63
					GKA 47	AD2
					GKAF 47	
8.20	210	106.38	5520	0.95	GK 37	Y..71M ₂ -6
8.90	193	97.81	5710	1.05	GKF 37	AM71
10.0	165	83.69	5990	1.20	GKA 37	AD1
12.0	143	72.54	6170	1.40	GKAF 37	
12.0	138	106.38	6210	1.45		
14.0	127	97.81	6280	1.55		
16.0	109	83.69	6400	1.85		
18.0	94	72.54	6470	2.10	GK 37	Y..63M ₂ -4
19.0	88	67.8	6500	2.30	GKF 37	AM63
23.0	76	58.6	6280	2.60	GKA 37	AD1
27.0	65	49.79	6010	3.10	GKAF 37	
30.0	58	44.46	5830	3.40		
35.0	49	37.97	5580	4.00		
37.0	46	35.57	5480	4.30		
44.0	39	29.96	5220	5.10		
46.0	38	28.83	5160	5.30		
53.0	32	24.99	4950	6.20	GK 37	Y..63M ₂ -4
57.0	30	23.36	4850	6.40	GKF 37	AM63
65.0	26	20.19	4650	7.00	GKA 37	AD2
77.0	22	17.15	4430	8.10	GKAF 37	
86.0	20	15.31	4280	8.80		
101	17	13.08	4080	9.70		
109	16	12.14	3980	10.0	GK 37	Y..63M ₂ -4
126	14	10.49	3810	12.0	GKF 37	AM63
148	12	8.91	3620	14.0	GKA 37	AD2
166	10	7.96	3490	15.0	GKAF 37	
$P_1=0.25\text{kw}$						
0.13	15100	9819	75600	0.85		
0.15	13000	8443	79200	1.00		
0.17	11500	7482	79900	1.10	GK 127 GRF77	Y..71M ₂ -4
0.20	10100	6565	80600	1.30	GKF 127 GRF77	AM71
0.22	8750	5804	81200	1.50	GKA 127 GRF77	AD2
0.26	7690	5027	81600	1.70	GKAF 127 GRF77	
0.29	6660	4423	81900	1.95		
0.33	5820	3889	82100	2.20	GK 127 GRF77	Y..71M ₂ -4
0.39	4870	3311	82300	2.70	GKF 127 GRF77	AM71
					GKA 127 GRF77	AD2
					GKAF 127 GRF77	



n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
$P_1=0.25\text{kw}$						
0.21	9460	6184	65000	0.85	GK 107 GRF77	Y..71M ₁ -4 AM71 AD2
0.23	8480	5662	65000	0.95	GKF 107 GRF77	
0.25	7690	5138	65000	1.05	GKA 107 GRF77	
0.30	6730	4359	65000	1.20	GKAF 107 GRF77	
0.34	5880	3810	65000	1.35	GK 107 GRF77	Y..71M ₁ -4 AM71 AD2
0.39	5060	3358	65000	1.60	GKF 107 GRF77	
0.44	4550	2977	65000	1.75	GKA 107 GRF77	
					GKAF 107 GRF77	
0.50	3970	2599	65000	2.00	GK 107 GRF77	Y..71M ₁ -4 AM71 AD2
0.57	3440	2286	65000	2.30	GKF 107 GRF77	
0.67	2920	1939	65000	2.70	GKA 107 GRF77	
					GKAF 107 GRF77	
0.76	2670	1713	65000	3.00	GK 107 GRF77	Y..71M ₁ -4 AM71 AD3
0.84	2430	1554	65000	3.30	GKF 107 GRF77	
0.97	2080	1336	65000	3.80	GKA 107 GRF77	
					GKAF 107 GRF77	
0.42	4980	3108	39900	0.85	GK 97 GRF57	Y..71M ₁ -4 AM71 AD2
0.47	4350	2757	40000	1.00	GKF 97 GRF57	
0.54	3920	2419	40000	1.10	GKA 97 GRF57	
0.61	3420	2123	40000	1.25	GKAF 97 GRF57	
0.70	3010	1856	40000	1.40		
0.80	2570	1625	40000	1.65	GK 97 GRF57	Y..71M ₁ -4 AM71 AD2
0.91	2240	1430	40000	1.90	GKF 97 GRF57	
					GKA 97 GRF57	
					GKAF 97 GRF57	
1.00	2050	1261	40000	2.10	GK 97 GRF57	Y..71M ₁ -4 AM71 AD2
1.20	1790	1102	40000	2.40	GKF 97 GRF57	
1.40	1560	957	40000	2.70	GKA 97 GRF57	
1.50	1400	855	40000	3.10	GKAF 97 GRF57	
0.62	3390	2088	26300	0.80		Y..71M ₁ -4 AM71 AD2
0.70	3010	1854	26900	0.90		
0.78	2690	1657	27300	1.00	GK 87 GRF57	
0.92	2290	1415	27800	1.15	GKF 87 GRF57	
1.10	1990	1229	28100	1.35	GKA 87 GRF57	
1.20	1730	1078	28300	1.55	GKAF 87 GRF57	
1.40	1500	951	28500	1.80		
1.60	1310	837	28600	2.10		
1.80	1130	726	28700	2.40		
2.00	1010	638	28800	2.70	GK 87 GRF57	Y..71M ₁ -4 AM71 AD3
					GKF 87 GRF57	
					GKA 87 GRF57	
					GKAF 87 GRF57	
1.20	1720	1053	14000	0.90		Y..71M ₁ -4 AM71 AD2
1.40	1510	924	15600	1.00		
1.60	1330	815	16700	1.15	GK 77 GRF37	
1.80	1110	709	17800	1.40	GKF 77 GRF37	
2.10	970	622	18400	1.60	GKA 77 GRF37	
2.40	870	552	18700	1.75	GKAF 77 GRF37	
2.70	765	485	19100	2.00		
3.00	675	428	19300	2.30		

n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
$P_1=0.25\text{kw}$						
3.50	590	367	19500	2.60		Y..71M ₁ -4 AM71 AD2
4.00	525	328	19600	2.90	GK 77 GRF37	
4.50	465	290	19700	3.30	GKF 77 GRF37	
5.20	400	252	19900	3.80	GKA 77 GRF37	
5.90	350	221	19900	4.40	GKAF 77 GRF37	
6.70	310	195	20000	5.00		
7.40	270	175	20000	5.60		
2.10	970	613	5680	0.85		Y..71M ₁ -4 AM71 AD2
2.40	860	542	9920	0.95		
2.80	775	471	10700	1.05	GK 67 GRF37	
3.10	665	420	11500	1.25	GKF 67 GRF37	
3.60	590	361	11900	1.4	GKA 67 GRF37	
4.00	520	323	12300	1.55	GKAF 67 GRF37	
4.70	440	279	12600	1.85		
5.30	390	246	12800	2.10		
6.00	345	217	13000	2.40		
3.10	665	421	4200	0.90		Y..71M ₁ -4 AM71 AD2
3.60	590	362	7690	1.00		
4.10	520	319	8260	1.15		
4.60	440	280	8680	1.35	GK 57 GRF37	
5.30	390	246	8920	1.55	GKF 57 GRF37	
6.00	345	215	9110	1.75	GKA 57 GRF37	
6.80	305	192	9260	1.95	GKAF 57 GRF37	
7.80	265	166	9410	2.30		
9.00	230	145	9530	2.60		
10.0	210	129	9600	2.80		Y..71M ₁ -6 AM71 AD2
12.0	178	111	9700	3.40		
13.0	156	97	9770	3.80		
4.70	510	192.18	19700	2.80	GK 77	
5.00	475	179.37	19700	3.00	GKF 77	Y..71M ₁ -6 AM71 AD2
5.80	410	154.02	19800	3.80	GKA 77	
6.60	360	135.28	19900	4.30	GKAF 77	
6.20	385	144.79	12900	2.10	GK 67	Y..71M ₁ -6 AM71 AD2
7.20	325	123.54	13000	2.50	GKF 67	
8.30	285	108.03	13000	2.80	GKA 67	
8.70	270	102.62	13000	3.00	GKAF 67	
9.00	265	144.79	13000	3.10	GK 67	Y..71M ₁ -4 AM71 AD2
11.0	225	123.54	13000	3.60	GKF 67	
12.0	198	108.03	13000	4.10	GKA 67	
13.0	188	102.62	13000	4.40	GKAF 67	
6.20	385	145.14	8940	1.55		Y..71M ₁ -6 AM71 AD2
7.20	330	123.85	9170	1.80	GK 57	
8.30	285	108.29	9330	2.10	GKF 57	
8.70	270	102.88	9380	2.20	GKA 57	
9.90	240	90.26	9500	2.50	GKAF 57	
12.0	200	76.56	9620	2.90		
9.00	265	145.14	9410	2.20		Y..71M ₁ -4 AM71 AD2
10.0	225	123.85	9540	2.60	GK 57	
12.0	199	108.29	9640	3.00	GKF 57	
13.0	189	102.88	9670	3.20	GKA 57	
14.0	166	90.26	9740	3.60	GKAF 57	
17.0	141	76.56	9810	4.30		

n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size		Input Configuration
P ₁ =0.25kw							
6.80	350	131.87	6540	1.15	GK GKF GKA GKAF	47	Y..71M ₂ -6 AM71 AD2
7.40	320	121.48	6830	1.25			
8.60	275	104.37	7240	1.45			
9.80	240	90.86	7510	1.65			
11.0	225	85.12	7610	1.75			
9.90	240	131.87	7510	1.65	GK GKF GKA GKAF	47	Y..71M ₂ -4 AM71 AD2
11.0	220	121.48	7640	1.80			
12.0	192	104.37	7820	2.10			
14.0	167	90.86	7930	2.40			
15.0	156	85.12	7980	2.60			
11.0	220	83.69	5350	0.90	GK GKF GKA GKAF	37	Y..71M ₂ -6 AM71 AD1
12.0	194	72.54	5710	1.05			
13.0	181	67.8	5840	1.10			
15.0	156	58.6	6070	1.30			
18.0	133	49.79	6250	1.50			
12.0	195	106.38	5690	1.00	GK GKF GKA GKAF	37	Y..71M ₂ -4 AM71 AD1
13.0	180	97.81	5860	1.10			
16.0	154	83.69	6090	1.30			
18.0	133	72.54	6240	1.50			
19.0	124	67.8	6220	1.60			
22.0	108	58.6	6030	1.85			
26.0	91	49.79	5810	2.20			
29.0	82	44.46	5650	2.40			
34.0	70	37.97	5430	2.90	GK GKF GKA GKAF	37	Y..71M ₂ -4 AM71 AD1
37.0	65	35.57	5340	3.10			
43.0	55	29.96	5100	3.60	GK GKF GKA GKAF	37	Y..71M ₂ -4 AM71 AD2
45.0	53	28.83	5050	3.80			
52.0	46	24.99	4860	4.40			
56.0	43	23.36	4770	4.60			
64.0	37	20.19	4580	5.00			
76.0	32	17.15	4370	5.70			
85.0	28	15.31	4220	6.20			
99.0	24	13.08	4030	6.90			
107	22	12.14	3940	7.20			
124	19	10.49	3780	8.30			
146	16	8.91	3590	9.80	GK GKF GKA GKAF	37	Y..71M ₂ -4 AM71 AD2
163	15	7.96	3470	11.0			
191	12	6.8	3300	12.0	GK GKF GKA GKAF	37	Y..71M ₂ -4 AM71 AD2
204	12	6.37	3240	12.0			
P ₁ =0.37kw							
0.18	16500	7482	72700	0.80	GK GKF GKA GKAF	127 GRF77	Y..71M ₂ -4 AM71 AD2
0.21	14500	6565	76900	0.90			
0.24	12600	5804	79400	1.05			
0.27	11000	5027	80200	1.20			
0.31	9610	4423	80800	1.35			
0.35	8410	3889	81300	1.55			
0.42	7080	3311	81800	1.85			

n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
P₁=0.37kw						
0.72	4280	1926	82400	3.00	GK 127 GRF77 GKF 127 GRF77 GKA 127 GRF77 GKAF127 GRF77	Y..71M ₂ -4 AM71 AD3
0.79	3900	1757	82500	3.30		
0.90	3390	1541	82600	3.80		
0.36	8420	3810	65000	0.95	GK 107 GRF77 GKF 107 GRF77 GKA 107 GRF77 GKAF107 GRF77	Y..71M ₂ -4 AM71 AD2
0.41	7290	3358	65000	1.10		
0.46	6530	2977	65000	1.20		
0.53	5700	2599	65000	1.40		
0.60	4960	2286	65000	1.60		
0.71	4210	1939	65000	1.90		
0.81	3830	1713	65000	2.10	GK 107 GRF77 GKF 107 GRF77 GKA 107 GRF77 GKAF107 GRF77	Y..71M ₂ -4 AM71 AD3
0.89	3470	1554	65000	2.30		
1.00	2990	1336	65000	2.70		
1.20	2600	1166	65000	3.10		
0.65	4850	2123	40000	0.90	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..71M ₂ -4 AM71 AD2
0.74	4270	1856	40000	1.00		
0.85	3670	1625	40000	1.15		
0.96	3200	1430	40000	1.35		
1.10	2900	1261	40000	1.50		
1.20	2530	1102	40000	1.70		
1.40	2220	957	40000	1.95		
1.60	1980	855	40000	2.20		
2.40	1310	573	40000	3.30		
1.90	1640	743	40000	2.60	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..71M ₂ -4 AM71 AD3
2.10	1450	652	40000	3.00		
1.90	1640	743	40000	2.60	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..71M ₂ -4 AM71 AD3
2.10	1450	652	40000	3.00		
0.97	3250	1415	26500	0.85	GK 87 GRF57 GKF 87 GRF57 GKA 87 GRF57 GKAF 87 GRF57	Y..71M ₂ -4 AM71 AD2
1.10	2820	1229	27100	0.95		
1.30	2460	1078	27600	1.10		
1.40	2140	951	27900	1.25		
1.60	1870	837	28200	1.45		
1.90	1620	726	28400	1.65		
2.20	1440	638	28500	1.85	GK 87 GRF57 GKF 87 GRF57 GKA 87 GRF57 GKAF 87 GRF57	Y..71M ₂ -4 AM71 AD3
2.50	1250	562	28600	2.20		
2.90	1050	474	28800	2.60		
3.20	950	426	28800	2.80		
3.70	830	373	28900	3.20		
1.70	1880	815	7450	0.80	GK 77 GRF37 GKF 77 GRF37 GKA 77 GRF37 GKAF 77 GRF37	Y..71M ₂ -4 AM71 AD2
2.00	1590	709	15100	0.95		
2.20	1390	622	16400	1.10		
2.50	1250	552	17200	1.25		
2.80	1090	485	17900	1.40		
3.20	960	428	18400	1.60		
3.80	840	367	18900	1.85		
4.20	745	328	19100	2.10		
4.80	665	290	19400	2.30		
5.50	570	252	19600	2.70		



n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
$P_1=0.37\text{kw}$						
6.20	500	221	19700	3.10	GK 77 GRF37	Y..71M ₂ -4 AM71 AD2
7.10	440	195	19800	3.50	GKF 77 GRF37	
7.90	390	175	19900	4.00	GKA 77 GRF37	
9.00	345	154	19900	4.50	GKAF 77 GRF37	
3.30	940	420	8130	0.85	GK 67 GRF37 GKF 67 GRF37 GKA 67 GRF37 GKAF 67 GRF37	Y..71M ₂ -4 AM71 AD2
3.80	830	361	10200	1.00		
4.30	740	323	10900	1.10		
5.00	630	279	11700	1.30		
5.60	555	246	12100	1.50		
7.20	430	191	12700	1.90		
8.30	370	166	12900	2.20		
9.60	325	144	13000	2.50		
11.0	275	122	13000	2.90		
4.90	630	280	7350	0.95	GK 57 GRF37 GKF 57 GRF37 GKA 57 GRF37 GKAF 57 GRF37	Y..71M ₂ -4 AM71 AD2
5.60	555	246	7980	1.10		
6.40	490	215	8460	1.20		
7.20	435	192	8720	1.40		
8.30	375	166	8980	1.60		
11.0	295	129	9290	2.00		
12.0	250	111	9460	2.40		
14.0	220	97	9560	2.70		
4.60	770	197.37	28900	3.50	GK 87 GKF 87 GKA 87 GKAF 87	Y..80M ₁ -6 AM80 AD2
5.20	680	174.19	28900	4.00		
5.90	600	154.02	19500	2.60		
6.70	525	135.28	19600	2.90		
7.00	500	128.52	19700	3.10	GK 77 GKF 77 GKA 77 GKAF 77	Y..80M ₁ -6 AM80 AD2
8.00	440	113.56	19800	3.50		
7.20	490	192.18	19700	3.00		
7.70	455	179.37	19800	3.20		
9.00	390	154.02	19900	3.90	GK 77 GKF 77 GKA 77 GKAF 77	Y..71M ₂ -4 AM71 AD2
7.30	480	123.54	12500	1.70		
8.40	420	108.03	12700	1.95		
8.80	400	102.62	12800	2.00		
10.0	350	90.04	13000	2.30	GK 67 GKF 67 GKA 67 GKAF 67	Y..80M ₁ -6 AM80 AD2
9.50	370	144.79	12900	2.20		
11.0	315	123.54	13000	2.60		
13.0	275	108.03	13000	3.00		
15.0	230	90.04	13000	3.60	GK 67 GKF 67 GKA 67 GKAF 67	Y..71M ₂ -4 AM71 AD2
18.0	196	76.37	13000	4.20		
7.30	480	123.85	8500	1.25		
8.40	420	108.29	8780	1.40		
8.80	400	102.88	8880	1.50	GK 57 GKF 57 GKA 57 GKAF 57	Y..80M ₁ -6 AM80 AD2
10.0	350	90.26	9080	1.70		
12.0	295	76.56	9290	2.00		
13.0	265	69.12	9400	2.20		

n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size		Input Configuration
P ₁ =0.37kw							
9.50	370	145.14	9000	1.60	GK GKF GKA GKAF	57	Y..71M ₂ -4 AM71 AD2
11.0	315	123.85	9220	1.90			
13.0	275	108.29	9370	2.20			
13.0	260	102.88	9420	2.30			
18.0	196	76.56	9640	3.10			
20.0	177	69.12	9700	3.40			
8.70	405	104.37	5720	1.00	GK GKF GKA GKAF	47	Y..80M ₁ -6 AM80 AD2
10.0	350	90.86	6500	1.15			
11.0	330	85.12	6750	1.20			
12.0	290	75.20	7120	1.35			
10.0	335	131.87	6690	1.20	GK GKF GKA GKAF	47	Y..71M ₂ -4 AM71 AD2
11.0	310	121.48	6960	1.30			
13.0	265	104.37	7330	1.50			
15.0	230	90.86	7580	1.70			
16.0	215	85.12	7670	1.85			
18.0	192	75.20	7810	2.10			
20.0	179	69.84	7880	2.20			
22.0	162	63.30	7960	2.50			
14.0	250	97.81	2520	0.80	GK GKF GKA GKAF	37	Y..71M ₂ -4 AM71 AD1
16.0	210	83.69	5470	0.95			
19.0	186	72.54	5690	1.10			
20.0	174	67.8	5630	1.15			
24.0	150	58.6	5500	1.35			
28.0	128	49.79	5350	1.55			
31.0	114	44.46	5230	1.75			
36.0	97	37.97	5060	2.10			
39.0	91	35.57	4990	2.20			
46.0	77	29.96	4800	2.60	GK GKF GKA GKAF	37	Y..71M ₂ -4 AM71 AD2
48.0	74	28.83	4750	2.70			
55.0	64	24.99	4590	3.10			
59.0	60	23.36	4510	3.30			
68.0	52	20.19	4350	3.60			
80.0	44	17.15	4160	4.10			
90.0	39	15.31	4040	4.50			
105	34	13.08	3860	4.90			
114	31	12.14	3780	5.10			
132	27	10.49	3630	6.00			
155	23	8.91	3460	7.00			
173	20	7.96	3350	7.60			
203	17	6.8	3190	8.60			
217	16	6.37	3130	8.90	GK GKF GKA GKAF	37	Y..71M ₂ -4 AM71 AD2
257	14	5.36	2970	10.0			
P ₁ =0.55kw							
0.08	54100	16978	190000	0.90	GK GKH	187 GRF97	Y..80M ₁ -4 AM80 AD3
0.10	45400	14272	190000	1.10			
0.11	41300	13116	190000	1.20			
0.12	36000	11647	190000	1.40			
0.19	23300	7343	190000	2.10			

n ₁ [1/min]	M ₁ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =0.55kw						
0.12	36900	11573	150000	0.85	GK 167 GRF97 GKH 167 GRF97	Y..80M ₁ -4 AM80 AD3
0.13	32700	10264	150000	1.00		
0.16	27400	8628	150000	1.15		
0.21	20800	6562	150000	1.55		
0.26	16500	5355	150000	1.95		
0.34	12800	4079	150000	2.50		
0.20	21900	6881	110000	0.80	GK 157 GRF97 GKF 157 GRF97 GKA 157 GRF97 GKAF 157 GRF97	Y..80M ₁ -4 AM80 AD3
0.23	18800	5931	111700	0.95		
0.35	12600	3979	114500	1.40		
0.45	9710	3051	115400	1.85		
0.31	14600	4423	76600	0.90	GK 127 GRF77 GKF 127 GRF77 GKA 127 GRF77 GKAF 127 GRF77	Y..80M ₁ -4 AM80 AD2
0.35	12800	3889	79200	1.00		
0.42	10800	3311	80300	1.20		
0.46	9840	3009	80700	1.30		
0.53	8450	2607	81300	1.55		
0.72	6520	1926	81900	2.00	GK 127 GRF77 GKF 127 GRF77 GKA 127 GRF77 GKAF 127 GRF77	Y..80M ₁ -4 AM80 AD3
0.79	5940	1757	82100	2.20		
0.90	5180	1541	82300	2.50		
1.00	4540	1342	82400	2.90		
1.20	3950	1177	82500	3.30		
1.40	3460	1025	82600	3.80		
0.46	9950	2977	65000	0.80	GK 107 GRF77 GKF 107 GRF77 GKA 107 GRF77 GKAF 107 GRF77	Y..80M ₁ -4 AM80 AD2
0.53	8690	2599	65000	0.90		
0.60	7590	2286	65000	1.05		
0.71	6440	1939	65000	1.25		
0.81	5820	1713	65000	1.35		
0.89	5280	1554	65000	1.50	GK 107 GRF77 GKF 107 GRF77 GKA 107 GRF77 GKAF 107 GRF77	Y..80M ₁ -4 AM80 AD3
1.00	4540	1336	65000	1.75		
1.20	3960	1166	65000	2.00		
1.30	3400	1030	65000	2.40		
1.50	2960	904	65000	2.70		
1.70	2680	793	65000	3.00	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..80M ₁ -4 AM80 AD2
2.00	2330	696	65000	3.40		
2.20	2010	615	65000	4.00		
0.96	4860	1430	40000	0.90		
1.10	4360	1261	40000	1.00		
1.20	3810	1102	40000	1.15	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..80M ₁ -4 AM80 AD2
1.40	3340	957	40000	1.30		
1.60	2990	855	40000	1.45		
2.40	1980	573	40000	2.20		
1.90	2500	743	40000	1.70	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..80M ₁ -4 AM80 AD3
2.10	2210	652	40000	1.95		
2.70	1690	504	40000	2.50		
3.20	1450	437	40000	3.00		
3.60	1300	382	40000	3.30		
4.50	1040	305	40000	4.10	GK 87 GRF57 GKF 87 GRF57 GKA 87 GRF57 GKAF 87 GRF57	Y..80M ₁ -4 AM80 AD2
1.40	3250	951	26500	0.85		
1.60	2840	837	27100	0.95		
1.90	2470	726	27600	1.10		

n ₁ [1/min]	M ₁ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =0.55kw						
2.20	2180	638	27900	1.25	GK 87 GRF57 GKF 87 GRF57 GKA 87 GRF57 GKAF 87 GRF57	Y..80M ₁ -4 AM80 AD3
2.50	1910	562	28100	1.40		
2.90	1610	474	28400	1.70		
3.20	1440	426	28500	1.85		
3.70	1270	373	28600	2.10		
4.20	1100	330	28700	2.40	GK 77 GRF37 GKF 77 GRF37 GKA 77 GRF37 GKAF 77 GRF37	Y..80M ₁ -4 AM80 AD2
4.70	990	294	28800	2.70		
5.50	860	250	28900	3.10		
5.80	810	236	28900	3.30		
6.90	685	201	28900	3.90		
2.80	1660	485	14600	0.95	GK 77 GRF37 GKF 77 GRF37 GKA 77 GRF37 GKAF 77 GRF37	Y..80M ₁ -4 AM80 AD2
3.20	1460	428	16000	1.05		
3.80	1260	367	17100	1.20		
4.20	1120	328	17800	1.35		
4.80	1000	290	18300	1.55	GK 77 GRF37 GKF 77 GRF37 GKA 77 GRF37 GKAF 77 GRF37	Y..80M ₁ -4 AM80 AD2
5.50	860	252	18800	1.80		
6.20	755	221	19100	2.00		
7.10	665	195	19300	2.30		
7.90	595	175	19500	2.60		
9.00	525	154	19600	3.00	GK 67 GRF37 GKF 67 GRF37 GKA 67 GRF37 GKAF 67 GRF37	Y..80M ₁ -4 AM80 AD2
5.00	950	279	7650	0.85		
5.60	840	246	10100	0.95		
6.40	745	217	10900	1.10		
7.20	655	191	11600	1.25		
7.20	655	192	5460	0.90	GK 57 GRF37 GKF 57 GRF37 GKA 57 GRF37 GKAF 57 GRF37	Y..80M ₁ -4 AM80 AD2
8.30	570	166	7870	1.05		
9.60	500	145	8420	1.20		
11.0	445	129	8660	1.35		
12.0	380	111	8960	1.55	GK 87 GKF 87 GKA 87 GKAF 87	Y..80M ₁ -6 AM80 AD2
14.0	335	97	9140	1.80		
4.60	1130	197.37	28700	2.40		
5.20	990	174.19	28800	2.70		
5.60	940	164.34	28800	2.90	GK 77 GKF 77 GKA 77 GKAF 77	Y..80M ₁ -6 AM80 AD2
6.20	840	147.32	28900	3.20		
5.90	880	154.02	18700	1.75		
6.80	775	135.28	19100	2.00		
7.10	735	128.52	19200	2.10		
8.10	650	113.56	19400	2.40	GK 77 GKF 77 GKA 77 GKAF 77	Y..80M ₁ -4 AM80 AD2
9.00	585	154.02	19500	2.60		
10.0	510	135.28	19700	3.00		
11.0	485	128.52	19700	3.20		
12.0	430	113.56	19800	3.60	GK 67 GKF 67 GKA 67 GKAF 67	Y..80M ₁ -6 AM80 AD2
14.0	365	97.05	19900	4.20		
7.40	705	123.54	11200	1.15		
8.50	620	108.03	11800	1.30		
8.90	585	102.62	12000	1.40		
10.0	515	90.04	12300	1.60	GK 67 GKF 67 GKA 67 GKAF 67	Y..80M ₁ -6 AM80 AD2
12.0	435	76.37	12700	1.85		



n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
$P_1=0.55kw$						
11.0	470	123.54	12500	1.75	GK 67	Y..80M ₁ -4 AM80 AD2
13.0	410	108.03	12800	2.00	GKF 67	
15.0	340	90.04	13000	2.40	GKA 67	
18.0	290	76.37	13000	2.80	GKAF 67	
8.40	620	108.29	7450	0.95	GK 57 GKF 57 GKA 57 GKAF 57	Y..80M ₁ -6 AM80 AD2
8.90	590	102.88	7710	1.00		
10.0	515	90.26	8280	1.15		
12.0	435	76.56	8710	1.35		
13.0	395	69.12	8900	1.50		
15.0	345	60.81	9100	1.70		
16.0	325	57.42	9170	1.80		
11.0	470	123.85	8560	1.25	GK 57 GKF 57 GKA 57 GKAF 57	Y..80M ₁ -4 AM80 AD2
13.0	410	108.29	8830	1.45		
13.0	390	102.88	8920	1.55		
15.0	340	90.26	9120	1.75		
18.0	290	76.56	9320	2.10		
20.0	260	69.12	9420	2.30		
23.0	230	60.81	9530	2.60		
24.0	215	57.42	9570	2.80		
13.0	395	104.37	5960	1.00	GK 47 GKF 47 GKA 47 GKAF 47	Y..80M ₁ -4 AM80 AD2
15.0	345	90.86	6600	1.15		
16.0	320	85.12	6830	1.25		
18.0	285	75.20	7180	1.40		
20.0	265	69.84	7340	1.50		
22.0	240	63.30	7520	1.65		
24.0	215	56.83	7680	1.85		
28.0	186	48.95	7840	2.20		
30.0	175	46.03	7900	2.30		
24.0	220	58.6	4840	0.90	GK 37 GKF 37 GKA 37 GKAF 37	Y..80M ₁ -4 AM80 AD1
28.0	190	49.79	4780	1.05		
31.0	169	44.46	4730	1.20		
36.0	144	37.97	4630	1.40		
39.0	135	35.57	4580	1.50		
46.0	114	29.96	4460	1.75	GK 37 GKF 37 GKA 37 GKAF 37	Y..80M ₁ -4 AM80 AD2
48.0	110	28.83	4420	1.80		
55.0	95	24.99	4310	2.10		
59.0	89	23.36	4250	2.20		
68.0	77	20.19	4120	2.40		
80.0	65	17.15	3970	2.80	GK 37 GKF 37 GKA 37 GKAF 37	Y..80M ₁ -4 AM80 AD2
90.0	58	15.31	3860	3.00		
105	50	13.08	3720	3.30		
114	46	12.14	3650	3.50		
132	40	10.49	3510	4.00		
155	34	8.91	3360	4.70		
173	30	7.96	3260	5.10		
203	26	6.8	3120	5.80	GK 37 GKF 37 GKA 37 GKAF 37	Y..80M ₁ -4 AM80 AD2
217	24	6.37	3060	6.00		
257	20	5.36	2910	6.90		
347	15	3.98	2670	8.30		

n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
$P_1=0.75kw$						
0.11	55500	13116	190000	0.90	GK 187 GRF97 GKH 187 GRF97	Y..80M ₁ -4 AM80 AD3
0.12	48600	11647	190000	1.05		
0.20	31300	7343	190000	1.60		
0.21	28500	6747	190000	1.75		
0.24	25000	5991	190000	2.00		
0.17	36800	8628	150000	0.85	GK 167 GRF97 GKH 167 GRF97	Y..80M ₁ -4 AM80 AD3
0.22	28000	6562	150000	1.15		
0.27	22300	5355	150000	1.45		
0.35	17200	4079	150000	1.85		
0.43	14400	3376	150000	2.20		
0.36	16900	3979	112700	1.05	GK 157 GRF97 GKF 157 GRF97 GKA 157 GRF97 GKAF157 GRF97	Y..80M ₁ -4 AM80 AD3
0.47	13000	3051	114300	1.40		
0.87	7160	1659	116000	2.50	GK 157 GRF97 GKF 157 GRF97 GKA 157 GRF97 GKAF157 GRF97	Y..80M ₁ -4 AM80 AD4
1.00	5770	1365	116200	3.10		
0.43	14500	3311	77000	0.90	GK 127 GRF77 GKF 127 GRF77 GKA 127 GRF77 GKAF127 GRF77	Y..80M ₁ -4 AM80 AD2
0.48	13100	3009	79100	1.00		
0.55	11200	2607	80100	1.15		
0.74	8650	1926	81200	1.50	GK 127 GRF77 GKF 127 GRF77 GKA 127 GRF77 GKAF127 GRF77	Y..80M ₁ -4 AM80 AD3
0.82	7880	1757	81500	1.65		
0.93	6880	1541	81800	1.90		
1.10	6020	1342	82100	2.20		
1.20	5250	1177	82200	2.50	GK 127 GRF77 GKF 127 GRF77 GKA 127 GRF77 GKAF127 GRF77	Y..80M ₁ -4 AM80 AD3
1.40	4600	1025	82400	2.80		
1.60	4010	899	82500	3.20		
0.84	7710	1713	65000	1.05	GK 107 GRF77 GKF 107 GRF77 GKA 107 GRF77 GKAF107 GRF77	Y..80M ₁ -4 AM80 AD3
0.92	7000	1554	65000	1.15		
1.10	6020	1336	65000	1.35		
1.20	5250	1166	65000	1.50		
1.40	4540	1030	65000	1.75		
1.60	3960	904	65000	2.00		
1.80	3560	793	65000	2.20		
2.10	3100	696	65000	2.60		
2.30	2690	615	65000	3.00	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..80M ₁ -4 AM80 AD2
1.30	5030	1102	39900	0.85		
1.50	4410	957	40000	0.95		
1.70	3940	855	40000	1.10		
2.50	2620	573	40000	1.65	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..80M ₁ -4 AM80 AD3
1.90	3320	743	40000	1.30		
2.20	2930	652	40000	1.45		
2.80	2250	504	40000	1.90		
3.30	1940	437	40000	2.20		
3.80	1720	382	40000	2.50		
4.70	1390	305	40000	3.10		

n ₁ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =0.75kw						
5.60	1170	258	40000	3.70	GK 97 GRF57	Y..80M ₂ -4 AM80 AD3
6.20	1050	232	40000	4.10	GKF 97 GRF57	
7.20	890	199	40000	4.80	GKA 97 GRF57	
					GKAF 97 GRF57	
2.00	3270	726	26500	0.80	GK 87 GRF57	Y..80M ₂ -4 AM80 AD2
					GKF 87 GRF57	
					GKA 87 GRF57	
					GKAF 87 GRF57	
2.20	2890	638	27000	0.95	GK 87 GRF57	Y..80M ₂ -4 AM80 AD3
2.60	2530	562	27500	1.05		
3.00	2130	474	27900	1.25		
3.40	1910	426	28100	1.40		
3.80	1680	373	28300	1.60		
4.40	1470	330	28500	1.85		
4.90	1310	294	28600	2.0	GK 87 GRF57	Y..80M ₂ -4 AM80 AD3
5.70	1130	250	28700	2.4	GKF 87 GRF57	
6.10	1070	236	28700	2.5	GKA 87 GRF57	
7.10	910	201	28800	3.0	GKAF 87 GRF57	
3.90	1670	367	14400	0.95	GK 77 GRF37	Y..80M ₂ -4 AM80 AD2
4.40	1490	328	15800	1.05		
5.00	1320	290	16800	1.15		
5.70	1140	252	17700	1.35		
6.50	1000	221	18300	1.55		
5.40	1320	174.19	28600	2.00	GK 87	Y..90S-6 AM90 AD2
5.70	1250	164.34	28600	2.20	GKF 87	
6.40	1120	147.32	28700	2.40	GKA 87	
7.40	960	126.91	28800	2.80	GKAF 87	
7.30	980	197.37	28800	2.70	GK 87	Y..80M ₂ -4 AM80 AD2
8.20	860	174.19	28800	3.10	GKF 87	
8.70	820	164.34	28900	3.30	GKA 87	
9.70	735	147.32	28900	3.70	GKAF 87	
7.00	1030	135.28	18200	1.50	GK 77	Y..90S-6 AM90 AD2
7.30	970	128.52	18400	1.60		
8.30	860	113.56	18800	1.80		
9.70	735	97.05	19200	2.10		
11.0	675	88.97	19300	2.30		
9.30	765	154.02	19100	2.00	GK 77	Y..80M ₂ -4 AM80 AD2
11.0	675	135.28	19300	2.30		
11.0	640	128.52	19400	2.40		
13.0	565	113.56	19600	2.70		
15.0	480	97.05	19700	3.20		
12.0	615	123.54	11800	1.35	GK 67	Y..80M ₂ -4 AM80 AD2
13.0	535	108.03	12200	1.50		
16.0	445	90.04	12600	1.80		
19.0	380	76.37	12900	2.20		
21.0	340	68.95	13000	2.40		
24.0	300	60.66	13000	2.70		
25.0	285	57.28	13000	2.90	GKAF 67	

n ₁ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size		Input Configuration
P ₁ =0.75kw							
12.0	615	123.85	7480	0.95	GK GKF GKA GKAF	57 57 57 57	Y..80M ₂ -4 AM80 AD2
13.0	540	108.29	8110	1.10			
14.0	510	102.88	8320	1.15			
16.0	450	90.26	8660	1.35			
19.0	380	76.56	8960	1.55			
21.0	345	69.12	9110	1.75			
24.0	300	60.81	9270	2.00			
25.0	285	57.42	9340	2.10			
29.0	240	48.89	9490	2.50			
32.0	220	44.43	9560	2.70			
19.0	375	75.20	6260	1.05	GK GKF GKA GKAF	47 47 47 47	Y..80M ₂ -4 AM80 AD2
21.0	345	69.84	6570	1.15			
23.0	315	63.30	6910	1.25			
25.0	280	56.83	7200	1.40			
29.0	240	48.95	7500	1.65			
31.0	225	46.03	7600	1.75			
36.0	198	39.61	7780	2.00			
41.0	177	35.39	7700	2.30			
46.0	156	31.3	7490	2.60			
32.0	220	44.46	4170	0.90			
38.0	190	37.97	4140	1.05			
40.0	178	35.57	4130	1.15			
48.0	150	29.96	4060	1.35	GK GKF GKA GKAF	37 37 37 37	Y..80M ₂ -4 AM80 AD2
50.0	144	28.83	4040	1.40			
57.0	125	24.99	3970	1.60			
61.0	117	23.36	3930	1.65			
71.0	101	20.19	3840	1.85			
84.0	86	17.15	3720	2.10			
94.0	76	15.31	3640	2.30			
110	65	13.08	3520	2.50			
118	61	12.14	3460	2.60			
137	52	10.49	3350	3.00			
161	44	8.91	3220	3.60	GK GKF GKA GKAF	37 37 37 37	Y..80M ₂ -4 AM80 AD2
180	40	7.96	3130	3.90			
211	34	6.8	3000	4.40			
225	32	6.37	2950	4.60			
268	27	5.36	2810	5.20			
361	20	3.98	2590	6.30			
P ₁ =1.1kw							
0.15	58700	9363	190000	0.85	GK GKH	187 GRF97 187 GRF97	Y..90S-4 AM90 AD3
0.17	50200	8126	190000	1.00			
0.19	47600	7343	190000	1.05			
0.21	43500	6747	190000	1.15			
0.24	38300	5991	190000	1.30			
0.27	33900	5358	190000	1.45	GK GKH	187 GRF97 187 GRF97	Y..90S-4 AM90 AD4
0.29	30200	4817	190000	1.65			
0.32	27400	4370	190000	1.80			
0.27	34200	5355	150000	0.95	GK GKH	167 GRF97 167 GRF97	Y..90S-4 AM90 AD3
0.30	30300	4788	150000	1.05			
0.35	26300	4079	150000	1.20			
0.42	21900	3376	150000	1.45			



n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
$P_1=1.1kw$						
0.52	17600	2755	150000	1.80	GK 167 GRF97 GKH 167 GRF97	Y..90S-4 AM90 AD3
0.65	14300	2182	150000	2.20	GK 167 GRF97 GKH 167 GRF97	Y..90S-4 AM90 AD4
0.83	11100	1704	150000	2.90	GK 167 GRF97 GKH 167 GRF97	Y..90S-4 AM90 AD5
0.40	22200	3516	109700	0.80	GK 157 GRF97 GKF 157 GRF97 GKA 157 GRF97 GKAF157 GRF97	Y..90S-4 AM90 AD3
0.47	19800	3051	111200	0.90		
0.54	16300	2610	113000	1.10	GK 157 GRF97 GKF 157 GRF97 GKA 157 GRF97 GKAF157 GRF97	Y..90S-4 AM90 AD4
0.61	14500	2322	113700	1.25		
0.86	10800	1659	115000	1.65		
1.00	8840	1365	115600	2.00	GK 157 GRF97 GKF 157 GRF97 GKA 157 GRF97 GKAF157 GRF97	Y..90S-4 AM90 AD5
1.20	7880	1229	115800	2.30		
1.30	7010	1093	116000	2.60		
1.50	6040	942	116200	3.00		
1.70	5420	854	116300	3.30		
0.74	12900	1926	79200	1.00	GK 127 GRF77 GKF 127 GRF77 GKA 127 GRF77 GKAF127 GRF77	Y..90S-4 AM90 AD3
0.81	11800	1757	79800	1.10		
0.92	10300	1541	80500	1.25		
1.10	9030	1342	81100	1.45		
1.20	7900	1177	81500	1.65		
1.40	6900	1025	81800	1.90		
1.60	6030	899	82000	2.20		
1.80	5190	790	82300	2.50		
2.00	4700	704	82400	2.80	GK 127 GRF77 GKF 127 GRF77 GKA 127 GRF77 GKAF127 GRF77	Y..90S-4 AM90 AD4
2.30	4040	610	82500	3.20		
2.60	3650	549	82600	3.60		
3.00	3140	477	82600	4.10		
1.20	7870	1166	65000	1.00	GK 107 GRF77 GKF 107 GRF77 GKA 107 GRF77 GKAF107 GRF77	Y..90S-4 AM90 AD3
1.40	6860	1030	65000	1.15		
1.60	5990	904	65000	1.35		
1.80	5340	793	65000	1.50		
2.00	4670	696	65000	1.70		
2.30	4080	615	65000	1.95		
2.70	3460	522	65000	2.30		
3.10	3040	461	65000	2.60		
3.50	2680	408	65000	3.00		
3.90	2420	364	65000	3.30	GK 107 GRF77 GKF 107 GRF77 GKA 107 GRF77 GKAF107 GRF77	Y..90S-4 AM90 AD4
4.50	2120	318	65000	3.80		
2.50	3920	573	40000	1.10	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..90S-4 AM90 AD2

n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
$P_1=1.1kw$						
1.90	4990	743	39900	0.85	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..90S-4 AM90 AD3
2.20	4390	652	40000	1.00		
2.80	3380	504	40000	1.25		
3.20	2920	437	40000	1.45		
3.70	2580	382	40000	1.65	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..90S-4 AM90 AD3
4.20	2280	342	40000	1.90		
3.00	3200	474	26600	0.85	GK 87 GRF57 GKF 87 GRF57 GKA 87 GRF57 GKAF 87 GRF57	Y..90S-4 AM90 AD3
3.30	2870	426	27100	0.95		
3.80	2530	373	27500	1.05		
4.30	2210	330	27800	1.20		
4.80	1980	294	28100	1.35	GK 87 GRF57 GKF 87 GRF57 GKA 87 GRF57 GKAF 87 GRF57	Y..90S-4 AM90 AD3
5.70	1700	250	28300	1.60		
6.00	1610	236	28400	1.70		
7.10	1360	201	28600	1.95		
5.30	1960	176.05	40000	2.20	GK 97 GKF 97 GKA 97 GKAF 97	Y..90L-6 AM90 AD3
6.10	1710	153.21	40000	2.50		
6.70	1560	140.28	40000	2.70		
7.60	1380	123.93	40000	3.10		
8.10	1300	176.05	40000	3.30	GK 97 GKF 97 GKA 97 GKAF 97	Y..90S-4 AM90 AD3
9.30	1130	153.21	40000	3.80		
10.0	1030	140.28	40000	4.10		
6.40	1640	147.32	28400	1.65	GK 87 GKF 87 GKA 87 GKAF 87	Y..90L-6 AM90 AD2
7.40	1410	126.91	28500	1.90		
8.20	1280	174.19	28600	2.10	GK 87 GKF 87 GKA 87 GKAF 87	Y..90S-4 AM90 AD2
8.60	1210	164.34	28700	2.20		
9.60	1080	147.32	28700	2.50		
11.0	930	126.91	28800	2.90		
12.0	850	115.82	28900	3.20		
8.30	1260	113.56	17100	1.20	GK 77 GKF 77 GKA 77 GKAF 77	Y..90L-6 AM90 AD2
9.70	1080	97.05	18000	1.45		
10.0	1000	135.28	18300	1.55		
11.0	950	128.52	18500	1.65	GK 77 GKF 77 GKA 77 GKAF 77	Y..90S-4 AM90 AD2
12.0	840	113.56	18900	1.85		
15.0	715	97.05	19200	2.20		
16.0	655	88.97	19400	2.40		
18.0	575	78.07	19500	2.70		
19.0	545	73.99	19600	2.80		
13.0	795	108.03	10500	1.05	GK 67 GKF 67 GKA 67 GKAF 67	Y..90S-4 AM90 AD2
14.0	755	102.62	10800	1.10		
16.0	665	90.04	11500	1.25		
19.0	560	76.37	12100	1.45		
21.0	510	68.95	12400	1.60		

n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
P₁=1.1kw						
23.0	445	60.66	12600	1.85	GK 67	Y..90S-4 AM90 AD2
25.0	420	57.28	12700	1.95	GKF 67	
29.0	360	48.77	12900	2.30	GKA 67	
32.0	325	44.32	13000	2.50	GKAF 67	
37.0	280	38.39	13000	2.80		
P₁=1.5kw						
16.0	665	90.26	4300	0.90	GK 57 GKF 57 GKA 57 GKAF 57	Y..90S-4 AM90 AD2
19.0	565	76.56	7900	1.05		
21.0	510	69.12	8330	1.15		
23.0	445	60.81	8660	1.35		
25.0	420	57.42	8770	1.40		
29.0	360	48.89	9040	1.65		
32.0	325	44.43	9180	1.85		
37.0	280	38.49	9340	2.10		
40.0	260	35.7	9420	2.30		
47.0	220	30.28	9550	2.70		
52.0	200	27.34	9480	3.00		
59.0	178	24.05	9190	3.40		
63.0	168	22.71	9060	3.60		
73.0	143	19.34	8690	4.00		
81.0	130	17.57	8470	4.30		
93.0	113	15.22	8150	4.80	GK 57 GKF 57 GKA 57 GKAF 57	Y..90S-4 AM90 AD3
107	98	13.25	7850	5.20		
119	88	11.92	7540	4.70		
126	83	11.26	7420	5.00		
148	71	9.59	7090	5.70		
163	64	8.71	6900	6.10		
188	56	7.55	6620	6.50		
216	49	6.57	6360	7.10		
303	35	4.69	5750	8.60		
25.0	420	56.83	4240	0.95	GK 47 GKF 47 GKA 47 GKAF 47	Y..90S-4 AM90 AD2
29.0	360	48.95	6420	1.10		
31.0	340	46.03	6660	1.15		
36.0	290	39.61	7120	1.35		
40.0	260	35.39	7080	1.55		
45.0	230	31.3	6940	1.75		
48.0	215	29.32	6870	1.85		
55.0	192	25.91	6720	2.10		
65.0	161	21.81	6490	2.50		
73.0	145	19.58	6340	2.80		
47.0	220	29.96	3430	0.90	GK 37 GKF 37 GKA 37 GKAF 37	Y..90S-4 AM90 AD2
57.0	185	24.99	3440	1.10		
61.0	173	23.36	3440	1.15		
70.0	149	20.19	3410	1.25		
83.0	127	17.15	3360	1.40		
93.0	113	15.31	3320	1.55		
109	97	13.08	3250	1.70		
117	90	12.14	3210	1.80	GK 37 GKF 37 GKA 37 GKAF 37	Y..90S-4 AM90 AD2
135	78	10.49	3130	2.10		
159	66	8.91	3040	2.40		
178	59	7.96	2960	2.60		
209	50	6.8	2860	3.00		
223	47	6.37	2820	3.10		
265	40	5.36	2710	3.50		
357	29	3.98	2510	4.20		

n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
P₁=1.5kw						
0.21	59800	6747	190000	0.85	GK 187	Y..90L-4 AM90 AD3
0.24	52800	5991	190000	0.95	GKH 187	
0.27	46900	5358	190000	1.05	GK 187 GKH 187	Y..90L-4 AM90 AD4
0.30	41800	4817	190000	1.20		
0.33	37900	4370	190000	1.30		
0.40	32500	3609	190000	1.55		
0.47	27500	3062	190000	1.80		
0.57	22400	2519	190000	2.20	GK 187 GKH 187	Y..90L-4 AM90 AD5
0.63	20000	2268	190000	2.50		
0.35	36100	4079	150000	0.90	GK 167 GKH 167	Y..90L-4 AM90 AD3
0.42	30000	3376	150000	1.05		
0.52	24200	2755	150000	1.30		
0.66	19600	2182	150000	1.60		
1.00	12600	1408	150000	2.50	GK 167 GKH 167	Y..90L-4 AM90 AD4
0.84	15300	1704	150000	2.10	GK 167 GKH 167	Y..90L-4 AM90 AD5
1.10	11600	1296	150000	2.80		
0.62	20100	2322	111000	0.90	GK 157 GKF 157 GKA 157 GKAF157	Y..90L-4 AM90 AD4
0.86	14900	1659	113600	1.20		
1.00	12100	1365	114600	1.50		
1.20	10800	1229	115000	1.65		
1.30	9680	1093	115400	1.85	GK 157 GKF 157 GKA 157 GKAF157	Y..90L-4 AM90 AD5
1.50	8350	942	115700	2.20		
1.70	7500	854	115900	2.40		
2.50	4930	567	116300	3.60		
2.80	4380	504	116400	4.10		
2.70	4750	536	82400	2.70	GK 127 GKF 127 GKA 127 GKAF127	Y..90L-4 AM90 AD4
3.40	3740	418	82500	3.50		
3.90	3290	367	82600	3.90		
0.81	16100	1757	73600	0.80		
0.93	14100	1541	77700	0.90	GK 127 GKF 127 GKA 127 GKAF127	Y..90L-4 AM90 AD3
1.10	12300	1342	79600	1.05		
1.20	10700	1177	80300	1.20		
1.40	9410	1025	80900	1.40		
1.60	8230	899	81400	1.60		
1.80	7130	790	81700	1.80		
2.00	6420	704	81900	2.00	GK 127 GKF 127 GKA 127 GKAF127	Y..90L-4 AM90 AD4
2.30	5540	610	82200	2.40		
2.60	5000	549	82300	2.60		
3.00	4300	477	82400	3.00		
3.40	3810	418	82500	3.40		



n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
P₁=1.5kw						
1.40	9380	1030	65000	0.85	GK 107 GRF77 GKF 107 GRF77 GKA 107 GRF77 GKAF 107 GRF77	Y..90L-4 AM90 AD3
1.60	8200	904	65000	1.00		
1.80	7280	793	65000	1.10		
2.10	6370	696	65000	1.25		
2.30	5580	615	65000	1.45		
2.70	4730	522	65000	1.70		
3.10	4160	461	65000	1.90		
3.50	3680	408	65000	2.20		
3.90	3310	364	65000	2.40	GK 107 GRF77 GKF 107 GRF77 GKA 107 GRF77 GKAF 107 GRF77	Y..90L-4 AM90 AD4
4.50	2900	318	65000	2.80		
2.50	5340	573	39500	0.80	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..90L-4 AM90 AD2
2.80	4610	504	40000	0.95		
3.30	3980	437	40000	1.10		
3.70	3510	382	40000	1.20		
4.20	3110	342	40000	1.40	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..90L-4 AM90 AD3
4.70	2830	305	40000	1.50		
5.60	2390	258	40000	1.80		
6.20	2150	232	40000	2.00		
7.20	1840	199	40000	2.30		
4.30	3020	330	26900	0.90		
4.90	2700	294	27300	1.00		
5.70	2320	250	27700	1.15	GK 87 GRF57 GKF 87 GRF57 GKA 87 GRF57 GKAF 87 GRF57	Y..90L-4 AM90 AD3
6.00	2190	236	27900	1.25		
7.10	1860	201	28200	1.45		
7.80	1690	183	28300	1.60		
5.30	2680	176.05	40000	1.60	GK 97 GKF 97 GKA 97 GKAF 97	Y..100L-6 AM100 AD3
6.10	2330	153.21	40000	1.85		
6.70	2130	140.28	40000	2.00		
7.60	1880	123.93	40000	2.30		
8.10	1760	176.05	40000	2.40	GK 97 GKF 97 GKA 97 GKAF 97	Y..90L-4 AM90 AD3
9.30	1530	153.21	40000	2.80		
10.0	1400	140.28	40000	3.10		
12.0	1240	123.93	40000	3.50		
6.40	2240	147.32	27800	1.20	GK 87 GKF 87 GKA 87 GKAF 87	Y..100L-6 AM100 AD2
7.40	1930	126.91	28100	1.40		
8.10	1760	115.82	28300	1.55		
9.20	1560	102.71	28400	1.75		
8.20	1740	174.19	28300	1.55	GK 87 GKF 87 GKA 87 GKAF 87	Y..90L-4 AM90 AD2
8.70	1640	164.34	28400	1.65		
9.70	1470	147.32	28500	1.85		
11.0	1270	126.91	28600	2.10		
12.0	1160	115.82	28700	2.30		
14.0	1020	102.71	28800	2.60		
17.0	860	86.34	28900	3.10		

n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
P₁=1.5kw						
8.30	1730	113.56	14000	0.90	GK 77 GKF 77 GKA 77 GKAF 77	Y..100L-6 AM100 AD2
9.70	1470	97.05	15900	1.05		
11.0	1350	88.97	16600	1.15		
12.0	1180	78.07	17500	1.30		
11.0	1350	135.28	16600	1.15	GK 77 GKF 77 GKA 77 GKAF 77	Y..90L-4 AM90 AD2
11.0	1280	128.52	17000	1.20		
13.0	1130	113.56	17700	1.35		
15.0	970	97.05	18400	1.60		
16.0	890	88.97	18700	1.75		
18.0	780	78.07	19000	2.00		
19.0	740	73.99	19200	2.10		
22.0	645	64.75	19400	2.40		
25.0	580	58.34	19500	2.60		
28.0	510	51.18	19700	3.00		
32.0	450	45.16	19800	3.40		
36.0	400	40.04	19900	3.90	GK 77 GKF 77 GKA 77 GKAF 77	Y..90L-4 AM90 AD3
16.0	900	90.04	9500	0.90		
19.0	765	76.37	10800	1.05		
21.0	690	68.95	11300	1.20		
24.0	605	60.66	11900	1.35	GK 67 GKF 67 GKA 67 GKAF 67	Y..90L-4 AM90 AD2
25.0	570	57.28	12000	1.45		
29.0	485	48.77	12500	1.70		
32.0	440	44.32	12600	1.85		
37.0	380	38.39	12900	2.10		
40.0	355	35.62	13000	2.30		
47.0	300	30.22	13000	2.70	GK 67 GKF 67 GKA 67 GKAF 67	Y..90L-4 AM90 AD3
52.0	270	27.28	13000	3.00		
60.0	240	24	13000	3.30		
24.0	605	60.81	7560	1.00	GK 57 GKF 57 GKA 57 GKAF 57	Y..90L-4 AM90 AD2
25.0	575	57.42	7830	1.05		
29.0	485	48.89	8470	1.25		
32.0	445	44.43	8680	1.35		
37.0	385	38.49	8940	1.55		
40.0	355	35.7	9060	1.70		
47.0	300	30.28	9170	2.00		
52.0	270	27.34	8990	2.20		
59.0	240	24.05	8750	2.50		
63.0	225	22.71	8640	2.60		
74.0	194	19.34	8340	3.00		
36.0	395	39.61	5970	1.00	GK 47 GKF 47 GKA 47 GKAF 47	Y..90L-4 AM90 AD2
40.0	350	35.39	6350	1.15		
46.0	310	31.3	6300	1.30		
49.0	290	29.32	6260	1.35		
55.0	255	25.91	6180	1.55		
66.0	215	21.81	6040	1.85		
73.0	196	19.58	5940	2.00		

n ₂ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size		Input Configuration
P ₁ =1.5kw							
85.0	169	16.86	5780	2.20	GK 47 GKF 47 GKA 47 GKAF 47	Y..90L-4 AM90 AD2	
90.0	159	15.86	5720	2.40			
105	137	13.65	5550	2.60			
117	122	12.19	5420	2.90			
122	118	11.77	5320	2.40			
61.0	230	23.36	2870	0.85	GK 37 GKF 37 GKA 37 GKAF 37	Y..90L-4 AM90 AD2	
71.0	200	20.19	2920	0.90			
83.0	172	17.15	2940	1.05			
93.0	153	15.31	2940	1.15			
109	131	13.08	2930	1.25			
118	122	12.14	2920	1.30			
136	105	10.49	2880	1.50			
160	89	8.91	2820	1.80			
180	80	7.96	2770	1.95			
210	68	6.8	2700	2.20			
225	64	6.37	2660	2.30			
267	54	5.36	2570	2.60			
359	40	3.98	2410	3.10			
P ₁ =2.2kw							
0.33	57000	4370	190000	0.90	GK 187 GRF97 GKH 187 GRF97	Y..100L ₁ -4 AM100 AD4	
0.51	35900	2818	190000	1.40			
0.39	48400	3609	190000	1.05			
0.47	41100	3062	190000	1.20			
0.57	33500	2519	190000	1.50	GK 187 GRF97 GKH 187 GRF97	Y..100L ₁ -4 AM100 AD5	
0.63	30100	2268	190000	1.65			
0.69	27100	2054	190000	1.85			
0.78	23800	1821	190000	2.10			
0.89	21200	1605	190000	2.40			
0.52	36200	2755	150000	0.90	GK 167 GRF97 GKH 167 GRF97	Y..100L ₁ -4 AM100 AD3	
0.63	29100	2263	150000	1.10			
0.65	29300	2182	150000	1.10	GK 167 GRF97 GKH 167 GRF97	Y..100L ₁ -4 AM100 AD4	
1.00	18800	1408	150000	1.70			
0.84	22800	1704	150000	1.40	GK 167 GRF97 GKH 167 GRF97	Y..100L ₁ -4 AM100 AD5	
1.10	17300	1296	150000	1.85			
1.30	14400	1101	150000	2.20			
1.50	12400	944	150000	2.60	GK 167 GRF97 GKH 167 GRF97	Y..100L ₁ -4 AM100 AD5	
0.86	22200	1659	109700	0.80			
1.00	18200	1365	112100	1.00	GK 157 GRF97 GKF 157 GRF97 GKA 157 GRF97 GKAF157 GRF97	Y..100L ₁ -4 AM100 AD5	
1.20	16300	1229	113000	1.10			
1.30	14500	1093	113800	1.25			
1.50	12500	942	114500	1.45			
1.70	11200	854	114900	1.60			
1.90	9760	756	115400	1.85			

n ₂ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =2.2kw						
2.70	7110	536	81700	1.85	GK 127 GRF87 GKF 127 GRF87 GKA 127 GRF87 GKAF127 GRF87	Y..100L ₁ -4 AM100 AD4
3.00	6220	473	82000	2.10		
3.40	5610	418	82200	2.30		
3.90	4910	367	82300	2.60		
4.30	4400	330	82400	3.00	GK 127 GRF87 GKF 127 GRF87 GKA 127 GRF87 GKAF127 GRF87	Y..100L ₁ -4 AM100 AD5
1.40	13900	1025	78100	0.95		
1.60	12200	899	79600	1.05		
1.80	10600	790	80400	1.20		
2.00	9530	704	80900	1.35	GK 127 GRF77 GKF 127 GRF77 GKA 127 GRF77 GKAF127 GRF77	Y..100L ₁ -4 AM100 AD4
2.30	8230	610	81400	1.60		
2.60	7420	549	81600	1.75		
3.00	6410	477	81900	2.00		
3.40	5650	418	82100	2.30		
2.30	8300	615	65000	0.95	GK 107 GRF77 GKF 107 GRF77 GKA 107 GRF77 GKAF107 GRF77	Y..100L ₁ -4 AM100 AD3
2.70	7040	522	65000	1.15		
3.10	6190	461	65000	1.30		
3.50	5480	408	65000	1.45		
3.90	4920	364	65000	1.60	GK 107 GRF77 GKF 107 GRF77 GKA 107 GRF77 GKAF107 GRF77	Y..100L ₁ -4 AM100 AD4
4.50	4300	318	65000	1.85		
5.00	3870	286	65000	2.10		
5.70	3390	251	65000	2.40		
3.70	5200	382	39700	0.85	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..100L ₁ -4 AM100 AD3
4.20	4620	342	40000	0.95		
4.70	4190	305	40000	1.00		
5.50	3540	258	40000	1.20		
6.10	3180	232	40000	1.35		
7.20	2730	199	40000	1.55		
6.20	3370	153.21	40000	1.30	GK 97 GKF 97 GKA 97 GKAF 97	Y..112M-6 AM112 AD3
6.80	3080	140.28	40000	1.40		
7.70	2720	123.93	40000	1.60		
9.10	2310	105.13	40000	1.85		
8.10	2590	176.05	40000	1.65	GK 97 GKF 97 GKA 97 GKAF 97	Y..100L ₁ -4 AM100 AD3
9.30	2250	153.21	40000	1.90		
10.0	2060	140.28	40000	2.10		
12.0	1820	123.93	40000	2.40		
14.0	1540	105.13	40000	2.80		
15.0	1420	96.8	40000	3.00	GK 87 GKF 87 GKA 87 GKAF 87	Y..100L ₁ -4 AM100 AD2
9.70	2170	147.32	27900	1.25		
11.0	1870	126.91	28200	1.45		
12.0	1700	115.82	28300	1.60		
14.0	1510	102.71	28500	1.80	GK 87 GKF 87 GKA 87 GKAF 87	Y..100L ₁ -4 AM100 AD2
16.0	1270	86.34	28600	2.10		



n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
P₁=2.2kw						
18.0	1160	79.34	28700	2.30	GK 87 GKF 87 GKA 87 GKAF 87	Y..100L ₁ -4 AM100 AD3
20.0	1030	70.46	28800	2.60		
23.0	920	63.00	28800	2.90		
13.0	1670	113.56	14400	0.95		
15.0	1430	97.05	16200	1.10		
16.0	1310	88.97	16900	1.20	GK 77 GKF 77 GKA 77 GKAF 77	Y..100L ₁ -4 AM100 AD2
18.0	1150	78.07	17700	1.35		
19.0	1090	73.99	17900	1.40		
22.0	950	64.75	18500	1.60		
24.0	860	58.34	18800	1.80		
28.0	750	51.18	19100	2.00	GK 77 GKF 77 GKA 77 GKAF 77	Y..100L ₁ -4 AM100 AD2
32.0	665	45.16	19300	2.30		
13.0	1670	113.56	14400	0.95		
15.0	1430	97.05	16200	1.10		
16.0	1310	88.97	16900	1.20	GK 77 GKF 77 GKA 77 GKAF 77	Y..100L ₁ -4 AM100 AD2
18.0	1150	78.07	17700	1.35		
19.0	1090	73.99	17900	1.40		
22.0	950	64.75	18500	1.60		
24.0	860	58.34	18800	1.80		
28.0	750	51.18	19100	2.00		
32.0	665	45.16	19300	2.30		
36.0	590	40.04	19500	2.60	GK 77 GKF 77 GKA 77 GKAF 77	Y..100L ₁ -4 AM100 AD3
40.0	515	35.2	19700	3.00		
46.0	455	30.89	19800	3.40		
49.0	430	29.27	19800	3.60	GK 77 GKF 77 GKA 77 GKAF 77	Y..100L ₁ -4 AM100 AD4
56.0	375	25.62	19900	4.10		
23.0	890	60.66	9590	0.90		
25.0	840	57.28	10100	0.95	GK 67 GKF 67 GKA 67 GKAF 67	Y..100L ₁ -4 AM100 AD2
29.0	715	48.77	11100	1.15		
32.0	650	44.32	11600	1.25		
37.0	565	38.39	12100	1.40		
40.0	525	35.62	12300	1.55		
47.0	445	30.22	12600	1.85		
52.0	400	27.28	12800	2.00		
59.0	350	24	13000	2.30	GK 67 GKF 67 GKA 67 GKAF 67	Y..100L ₁ -4 AM100 AD3
63.0	330	22.66	13000	2.30		
74.0	280	19.3	13000	2.70		
81.0	255	17.54	13000	2.90		
94.0	220	15.19	13000	3.10		
108	195	13.22	13000	3.40		
114	184	12.48	13000	2.90		
134	157	10.63	13000	3.20		
148	142	9.66	13000	3.40	GK 67 GKF 67 GKA 67 GKAF 67	Y..100L ₁ -4 AM100 AD3

n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
P₁=2.2kw						
170	123	8.37	13000	3.60	GK 67 GKF 67 GKA 67 GKAF 67	Y..100L ₁ -4 AM100 AD3
196	107	7.28	12700	3.90	GK 67 GKF 67 GKA 67 GKAF 67	Y..100L ₁ -4 AM100 AD3
274	77	5.2	11600	4.60		
32.0	655	44.43	5920	0.90		
37.0	565	38.49	7900	1.05		
40.0	525	35.7	8220	1.15	GK 57 GKF 57 GKA 57 GKAF 57	Y..100L ₁ -4 AM100 AD2
47.0	445	30.28	8240	1.35		
52.0	400	27.34	8150	1.50		
59.0	350	24.05	8020	1.70		
63.0	330	22.71	7950	1.80		
74.0	285	19.34	7750	2.00		
81.0	255	17.57	7620	2.10		
94.0	220	15.22	7410	2.40	GK 57 GKF 57 GKA 57 GKAF 57	Y..100L ₁ -4 AM100 AD3
108	195	13.25	7200	2.60		
120	176	11.92	6880	2.40		
127	166	11.26	6800	2.50		
55.0	380	25.91	5260	1.05		
65.0	320	21.81	5260	1.25		
73.0	285	19.58	5240	1.40	GK 47 GKF 47 GKA 47 GKAF 47	Y..100L ₁ -4 AM100 AD2
84.0	245	16.86	5180	1.55		
90.0	230	15.86	5150	1.65		
104	200	13.65	5060	1.80		
117	180	12.19	4980	1.95		
121	174	11.77	4880	1.60		
135	156	10.56	4800	1.80		
157	134	9.1	4680	2.10		
109	193	13.08	2370	0.85		
136	155	10.49	2430	1.05	GK 37 GKF 37 GKA 37 GKAF 37	Y..100L ₁ -4 AM100 AD2
160	131	8.91	2440	1.20		
179	117	7.96	2430	1.30		
210	100	6.8	2410	1.50		
224	94	6.37	2390	1.55		
266	79	5.36	2350	1.75		
358	59	3.98	2240	2.10		
P₁=3.0kw						
0.52	48700	2818	190000	1.05	GK 187 GRF97 GKH 187 GRF97	Y..100L ₁ -4 AM100 AD4
0.48	55200	3062	190000	0.90		
0.58	45200	2519	190000	1.10		
0.64	40500	2268	190000	1.25	GK 187 GRF97 GKH 187 GRF97	Y..100L ₁ -4 AM100 AD5
0.71	36600	2054	190000	1.35		
0.80	32200	1821	190000	1.55		
0.91	28600	1605	190000	1.75	GK 187 GRF97 GKH 187 GRF97	Y..100L ₁ -4 AM100 AD5
1.00	24400	1395	190000	2.00		
1.20	21200	1196	190000	2.40		

n ₂ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =3.0kw						
1.00	25300	1408	150000	1.25	GK 167 GRF97 GKH 167 GRF97	Y..100L ₂ -4 AM100 AD4
0.85	30600	1704	150000	1.05	GK 167 GRF97 GKH 167 GRF97	Y..100L ₂ -4 AM100 AD5
1.10	23300	1296	150000	1.35		
1.30	19500	1101	150000	1.65		
1.50	16800	944	150000	1.90		
1.70	14700	843	150000	2.20		
1.90	13300	757	150000	2.40		
1.20	21900	1229	109900	0.80	GK 157 GRF97 GKF 157 GRF97 GKA 157 GRF97 GKAF157 GRF97	Y..100L ₂ -4 AM100 AD5
1.30	19500	1093	111400	0.90		
1.50	16800	942	112700	1.05		
1.70	15200	854	113500	1.20		
1.90	13200	756	114300	1.35		
2.60	10000	567	115300	1.80		
2.90	8930	504	115600	2.00		
2.70	9580	536	80900	1.35	GK 127 GRF87 GKF 127 GRF87 GKA 127 GRF87 GKAF127 GRF87	Y..100L ₂ -4 AM100 AD4
3.10	8410	473	81300	1.55		
3.50	7560	418	81600	1.70		
4.00	6610	367	81900	1.95	GK 127 GRF87 GKF 127 GRF87 GKA 127 GRF87 GKAF127 GRF87	Y..100L ₂ -4 AM100 AD5
4.40	5930	330	82100	2.20		
5.10	5090	287	82300	2.60		
1.80	14200	790	77400	0.90	GK 127 GRF77 GKF 127 GRF77 GKA 127 GRF77 GKAF127 GRF77	Y..100L ₂ -4 AM100 AD3
2.10	12700	704	79300	1.00	GK 127 GRF77 GKF 127 GRF77 GKA 127 GRF77 GKAF127 GRF77	Y..100L ₂ -4 AM100 AD4
2.40	11000	610	80200	1.20		
2.60	9960	549	80700	1.30		
3.00	8620	477	81200	1.50		
3.50	7590	418	81600	1.70		
3.20	8320	461	65000	0.95	GK 107 GRF77 GKF 107 GRF77 GKA 107 GRF77 GKAF107 GRF77	Y..100L ₂ -4 AM100 AD3
3.60	7360	408	65000	1.10		
4.00	6600	364	65000	1.20	GK 107 GRF77 GKF 107 GRF77 GKA 107 GRF77 GKAF107 GRF77	Y..100L ₂ -4 AM100 AD4
4.60	5770	318	65000	1.40		
5.10	5190	286	65000	1.55		
5.80	4550	251	65000	1.75		
6.60	4000	222	65000	2.00		
7.40	3540	196	65000	2.20		
8.40	3170	174	65000	2.30		
9.40	2800	154	65000	2.60		
10.0	2540	140	65000	2.80		
5.60	4740	258	40000	0.90	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..100L ₂ -4 AM100 AD3
6.30	4270	232	40000	1.00		
7.30	3660	199	40000	1.15		

n ₂ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =3.0kw						
6.70	4300	143.47	65000	1.85	GK 107	Y..132S-6 AM132 AD4
7.90	3640	121.46	65000	2.20	GKF 107	
8.50	3370	112.41	65000	2.40	GKA 107	
9.50	3020	100.75	65000	2.60	GKAF107	
10.0	2820	143.47	65000	2.80	GK 107	Y..100L ₂ -4 AM100 AD4
12.0	2390	121.46	65000	3.40	GKF 107	
					GKA 107	
					GKAF107	
7.70	3710	123.93	40000	1.15	GK 97	Y..132S-6 AM132 AD3
9.10	3150	105.13	40000	1.35	GKF 97	
9.90	2900	96.8	40000	1.50	GKA 97	
11.0	2590	86.52	40000	1.65	GKAF 97	
8.30	3460	176.05	40000	1.25	GK 97 GKF 97 GKA 97 GKAF 97	Y..100L ₂ -4 AM100 AD3
9.50	3010	153.21	40000	1.45		
10.0	2760	140.28	40000	1.55		
12.0	2440	123.93	40000	1.75		
14.0	2070	105.13	40000	2.10		
15.0	1900	96.8	40000	2.30		
17.0	1700	86.52	40000	2.50		
19.0	1530	77.89	40000	2.80		
21.0	1380	70.54	40000	3.10		
23.0	1230	62.55	40000	3.50		
26.0	1110	56.55	40000	3.90		
9.90	2900	147.32	27000	0.95	GK 87 GKF 87 GKA 87 GKAF 87	Y..100L ₂ -4 AM100 AD2
11.0	2490	126.91	27500	1.10		
13.0	2280	115.82	27800	1.20		
14.0	2020	102.71	28000	1.35		
17.0	1690	86.34	28300	1.60		
18.0	1560	79.34	28400	1.75	GK 87 GKF 87 GKA 87 GKAF 87	Y..100L ₂ -4 AM100 AD3
21.0	1380	70.46	28600	1.95		
23.0	1240	63.00	28600	2.20		
26.0	1110	56.64	28700	2.40		
30.0	960	49.16	28800	2.80		
33.0	860	44.02	28800	3.00		
40.0	715	36.52	28200	3.50		
16.0	1750	88.97	13800	0.90	GK 77 GKF 77 GKA 77 GKAF 77	Y..100L ₂ -4 AM100 AD2
19.0	1530	78.07	15500	1.00		
20.0	1450	73.99	16000	1.05		
22.0	1270	64.75	17100	1.20		
25.0	1140	58.34	17700	1.35		
28.0	1000	51.18	18300	1.55		
32.0	880	45.16	18700	1.75		
36.0	785	40.04	19000	1.95	GK 77 GKF 77 GKA 77 GKAF 77	Y..100L ₂ -4 AM100 AD3
41.0	690	35.2	19300	2.20		
47.0	605	30.89	19500	2.60		



n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
P₁=3.0kw						
33.0	870	44.32	9810	0.95	GK 67	Y..100L ₁ -4 AM100 AD2
38.0	755	38.39	10800	1.05	GKF 67	
41.0	700	35.62	11300	1.15	GKA 67	
					GKAF 67	
48.0	590	30.22	11900	1.40	GK 67 GKF 67 GKA 67 GKAF 67	Y..100L ₁ -4 AM100 AD3
53.0	535	27.28	12200	1.55		
61.0	470	24	12500	1.70		
64.0	445	22.66	12600	1.75		
75.0	375	19.3	12900	2.00		
83.0	345	17.54	13000	2.10		
96.0	295	15.19	13000	2.30		
110	260	13.22	13000	2.60		
117	245	12.48	13000	2.20		
137	205	10.63	13000	2.40		
151	190	9.66	13000	2.50		
48.0	595	30.28	7190	1.00	GK 57 GKF 57 GKA 57 GKAF 57	Y..100L ₁ -4 AM100 AD2
53.0	535	27.34	7190	1.10		
60.0	470	24.05	7170	1.25		
64.0	445	22.71	7150	1.35		
75.0	380	19.34	7060	1.50		
83.0	345	17.57	6980	1.60		
96.0	295	15.22	6860	1.80	GK 57 GKF 57 GKA 57 GKAF 57	Y..100L ₁ -4 AM100 AD3
110	260	13.25	6710	1.95		
122	230	11.92	6380	1.75		
129	220	11.26	6330	1.85		
152	189	9.59	6160	2.20		
167	172	8.71	6050	2.30		
193	149	7.55	5870	2.50	GK 57 GKF 57 GKA 57 GKAF 57	Y..100L ₁ -4 AM100 AD3
222	129	6.57	5700	2.70		
310	92	4.69	5270	3.20		
74.0	385	19.58	4450	1.05	GK 47 GKF 47 GKA 47 GKAF 47	Y..100L ₁ -4 AM100 AD2
86.0	330	16.86	4500	1.15		
92.0	310	15.86	4510	1.2		
107	265	13.65	4500	1.35		
119	240	12.19	4480	1.45		
124	230	11.77	4360	1.20		
138	205	10.56	4340	1.35		
160	179	9.1	4280	1.55		
170	168	8.56	4250	1.60	GK 47 GKF 47 GKA 47 GKAF 47	Y..100L ₁ -4 AM100 AD3
198	145	7.36	4160	1.70		
221	130	6.58	4090	1.85		
250	114	5.81	4000	2.00		
314	91	4.64	3830	2.20		
163	176	8.91	2020	0.90	GK 37 GKF 37 GKA 37 GKAF 37	Y..100L ₁ -4 AM100 AD2
183	157	7.96	2050	1.00		
214	134	6.8	2080	1.10		
229	125	6.37	2090	1.15		
271	106	5.36	2090	1.35		
366	78	3.98	2040	1.60		

n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
P₁=4.0kw						
1.80	19500	835	190000	2.60	GK 187 GRF107	Y..112M-4 AM112 AD5
2.80	12200	520	190000	4.10	GKH 187 GRF107	
0.58	60400	2519	190000	0.85	GK 187 GRF97 GKH 187 GRF97	Y..112M-4 AM112 AD5
0.64	54200	2268	190000	0.90		
0.71	49000	2054	190000	1.00		
0.80	43300	1821	190000	1.15		
0.91	38300	1605	190000	1.30		
1.00	32800	1395	190000	1.50		
1.20	28400	1196	190000	1.75		
1.40	24800	1046	190000	2.00		
1.50	22400	945	190000	2.20		
1.00	33900	1408	150000	0.95	GK 167 GRF97 GKH 167 GRF97	Y..112M-4 AM112 AD4
1.10	31100	1296	150000	1.05	GK 167 GRF97 GKH 167 GRF97	Y..112M-4 AM112 AD5
1.30	26100	1101	150000	1.20		
1.60	22500	944	150000	1.40		
1.70	19800	843	150000	1.60		
1.90	17900	757	150000	1.80		
2.30	15000	632	150000	2.10		
1.70	20300	854	110900	0.90	GK 157 GRF97 GKF 157 GRF97 GKA 157 GRF97 GKAF157 GRF97	Y..112M-4 AM112 AD5
1.90	17800	756	112300	1.00		
2.60	13400	567	114200	1.35		
2.90	11900	504	114700	1.50		
3.40	10200	434	115200	1.75		
2.70	12800	536	79300	1.00	GK 127 GRF87 GKF 127 GRF87 GKA 127 GRF87 GKAF127 GRF87	Y..112M-4 AM112 AD4
3.10	11200	473	80100	1.15		
3.50	10100	418	80600	1.30		
4.00	8830	367	81200	1.45		
4.40	7930	330	81500	1.65	GK 127 GRF87 GKF 127 GRF87 GKA 127 GRF87 GKAF127 GRF87	Y..112M-4 AM112 AD5
5.10	6820	287	81800	1.90		
5.80	6030	253	82100	2.20		
2.40	14700	610	76500	0.90	GK 127 GRF77 GKF 127 GRF77 GKA 127 GRF77 GKAF127 GRF77	Y..112M-4 AM112 AD4
2.70	13200	549	79000	1.00		
3.10	11500	477	80000	1.15		
3.50	10100	418	80600	1.30		
4.00	8800	364	65000	0.90	GK 107 GRF77 GKF 107 GRF77 GKA 107 GRF77 GKAF107 GRF77	Y..112M-4 AM112 AD4
4.60	7690	318	65000	1.05		
5.10	6920	286	65000	1.15		
5.80	6060	251	65000	1.30		
6.60	5340	222	65000	1.50		
7.40	4730	196	65000	1.70		
8.40	4230	174	65000	1.70		
9.50	3740	154	65000	1.90		
10.0	3400	140	65000	2.10		
7.30	4880	199	40000	0.90	GK 97 GRF57 GKF 97 GRF57 GKA 97 GRF57 GKAF 97 GRF57	Y..112M-4 AM112 AD3

n ₁ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =4.0kw						
6.60	5810	146.07	82100	2.20	GK 127	Y..132M ₁ -6 AM132 AD4
7.00	5410	136.14	82200	2.40	GKF 127	
7.80	4870	122.48	82300	2.70	GKA 127	
8.70	4380	110.18	82400	3.00	GKAF127	
6.70	5700	143.47	65000	1.40	GK 107	Y..132M ₁ -6 AM132 AD4
7.90	4830	121.46	65000	1.65	GKF 107	
8.50	4470	112.41	65000	1.80	GKA 107	
9.50	4000	100.75	65000	2.00	GKAF107	
11.0	3610	90.96	65000	2.20		
10.0	3750	143.47	65000	2.10		Y..112M-4 AM112 AD4
12.0	3170	121.46	65000	2.50	GK 107	
13.0	2940	112.41	65000	2.70	GKF 107	
14.0	2630	100.75	65000	3.00	GKA 107	
16.0	2370	90.96	65000	3.40	GKAF107	
18.0	2160	82.61	65000	3.70		
20.0	1910	73.3	65000	4.20		
9.50	4000	153.21	40000	1.05		Y..112M-4 AM112 AD3
10.0	3670	140.28	40000	1.15		
12.0	3240	123.93	40000	1.35	GK 97	
14.0	2750	105.13	40000	1.55	GKF 97	
15.0	2530	96.8	40000	1.70	GKA 97	
17.0	2260	86.52	40000	1.90	GKAF 97	
19.0	2030	77.89	40000	2.10		
21.0	1840	70.54	40000	2.30		
13.0	3030	115.82	26800	0.90	GK 87	Y..112M-4 AM112 AD2
14.0	2680	102.71	27300	1.00	GKF 87	
17.0	2250	86.34	27800	1.20	GKA 87	
					GKAF 87	
18.0	2070	79.34	28000	1.30		Y..112M-4 AM112 AD3
21.0	1840	70.46	28200	1.45		
23.0	1640	63.00	28400	1.65	GK 87	
26.0	1480	56.64	28500	1.80	GKF 87	
30.0	1280	49.16	28600	2.10	GKA 87	
33.0	1150	44.02	28200	2.30	GKAF 87	
40.0	950	36.52	27200	2.60		
23.0	1690	64.75	14300	0.90	GK 77	Y..112M-4 AM112 AD2
25.0	1520	58.34	15500	1.00	GKF 77	
29.0	1330	51.18	16700	1.15	GKA 77	
32.0	1180	45.16	17500	1.30	GKAF 77	
36.0	1040	40.04	18100	1.50	GK 77	Y..112M-4 AM112 AD3
38.0	1000	38.39	18300	1.50	GKF 77	
41.0	920	35.2	18600	1.70	GKA 77	
47.0	800	30.89	19000	1.90	GKAF 77	
50.0	765	29.27	19100	2.00	GK 77	Y..112M-4 AM112 AD4
57.0	670	25.62	19300	2.30	GKF 77	
63.0	600	23.08	19500	2.60	GKA 77	
72.0	525	20.25	19600	2.80	GKAF 77	

n ₁ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size		Input Configuration
P ₁ =4.0kw							
48.0	790	30.22	10600	1.05	GK 67 GKF 67 GKA 67 GKAF 67	Y..112M-4 AM112 AD3	
54.0	710	27.28	11200	1.15			
61.0	625	24	11700	1.25			
64.0	590	22.66	11900	1.30			
76.0	500	19.3	12400	1.50			
83.0	455	17.54	12600	1.60			
96.0	395	15.19	12800	1.75			
110	345	13.22	13000	1.95			
117	325	12.48	13000	1.60			
137	275	10.63	13000	1.80			
151	250	9.66	12800	1.90			
175	215	8.37	12400	2.00			
201	190	7.28	12100	2.20			
281	136	5.2	11100	2.60			
61.0	625	24.05	6140	0.95	GK 57	Y..112M-4 AM112 AD2	
64.0	590	22.71	6170	1.00	GKF 57		
76.0	505	19.34	6230	1.15	GKA 57		
83.0	455	17.57	6230	1.20	GKAF 57		
96.0	395	15.22	6200	1.35	GK 57 GKF 57 GKA 57 GKAF 57	Y..112M-4 AM112 AD3	
110	345	13.25	6140	1.45			
122	310	11.92	5800	1.35			
130	290	11.26	5780	1.40			
152	250	9.59	5690	1.60			
168	225	8.71	5620	1.70			
193	197	7.55	5500	1.85			
222	172	6.57	5380	2.00			
311	123	4.69	5040	2.40			
P ₁ =5.5kw							
0.80	60200	1821	190000	0.85	GK 187 GRF97 GKH 187 GRF97	Y..132S-4 AM132 AD5	
0.91	53200	1605	190000	0.95			
1.00	45800	1395	190000	1.10			
1.20	39500	1196	190000	1.25			
1.40	34500	1046	190000	1.45	GK 187 GRF97 GKH 187 GRF97	Y..132S-4 AM132 AD5	
1.50	31100	945	190000	1.60			
2.00	24300	738	190000	2.00			
2.30	20400	621	190000	2.40			
1.30	36300	1101	150000	0.90	GK 167 GRF97 GKH 167 GRF97	Y..132S-4 AM132 AD5	
1.50	31200	944	150000	1.00			
1.70	27700	843	150000	1.15			
1.90	24900	757	150000	1.30			
2.30	20800	632	150000	1.55			
2.60	18300	561	150000	1.75			
3.00	15800	481	150000	2.00			
3.40	13800	423	150000	2.30			
2.20	21500	661	110200	0.85	GK 157 GRF97 GKF 157 GRF97 GKA 157 GRF97 GKAF157 GRF97	Y..132S-4 AM132 AD5	
2.60	18700	567	111800	0.95			
2.90	16600	504	112800	1.10			
3.40	14200	434	113900	1.25			
3.80	12300	379	114600	1.45			
4.40	10900	333	115000	1.65			



n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
$P_1=5.5kw$						
3.50	14000	418	77900	0.95	GK 127 GRF87 GKF 127 GRF87 GKA 127 GRF87 GKAF127 GRF87	Y..132S-4 AM132 AD4
4.00	12200	367	79600	1.05	GK 127 GRF87 GKF 127 GRF87 GKA 127 GRF87 GKAF127 GRF87	Y..132S-4 AM132 AD5
4.40	10900	330	80200	1.20		
5.10	9480	287	80900	1.35		
5.70	8380	253	81300	1.55		
6.80	7040	213	81800	1.85		
7.30	6710	200	81900	1.80		
8.80	5550	166	82200	2.20		
9.90	4900	147	82300	2.40		
6.60	7400	222	65000	1.10	GK 107 GRF77 GKF 107 GRF77 GKA 107 GRF77 GKAF107 GRF77	Y..132S-4 AM132 AD4
7.40	6550	196	65000	1.20		
8.40	5860	174	65000	1.25		
9.40	5190	154	65000	1.40		
10.0	4710	140	65000	1.55		
7.10	7400	136.14	81700	1.75	GK 127 GKF 127 GKA 127 GKAF127	Y..132M ₂ -6 AM132 AD4
7.90	6660	122.48	81900	1.95		
8.80	5990	110.18	82100	2.20		
11.0	4890	89.89	82300	2.70	GK 127 GKF 127 GKA 127 GKAF127	Y..132M ₂ -6 AM132 AD5
8.60	6110	112.41	65000	1.30	GK 107 GKF 107 GKA 107 GKAF107	Y..132M ₂ -6 AM132 AD4
9.60	5480	100.75	65000	1.45		
11.0	4950	90.96	65000	1.60		
12.0	4490	82.61	65000	1.80		
10.0	5170	143.47	65000	1.55	GK 107 GKF 107 GKA 107 GKAF107	Y..132S-4 AM132 AD4
12.0	4380	121.46	65000	1.80		
13.0	4050	112.41	65000	1.95		
14.0	3630	100.75	65000	2.20		
16.0	3280	90.96	65000	2.40		
18.0	2980	82.61	65000	2.70		
12.0	4470	123.93	40000	0.95	GK 97 GKF 97 GKA 97 GKAF 97	Y..132S-4 AM132 AD3
14.0	3790	105.13	40000	1.15		
15.0	3490	96.8	40000	1.25		
17.0	3120	86.52	40000	1.40		
19.0	2810	77.89	40000	1.55		
21.0	2540	70.54	40000	1.70		
23.0	2250	62.55	40000	1.90	GK 97 GKF 97 GKA 97 GKAF 97	Y..132S-4 AM132 AD4
26.0	2040	56.55	39600	2.10		
30.0	1730	47.93	38400	2.50		
17.0	3110	86.34	26700	0.85	GK 87 GKF 87 GKA 87 GKAF 87	Y..132S-4 AM132 AD2

n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size		Input Configuration
P ₁ =5.5kw							
18.0	2860	79.34	27100	0.95	GK GKF GKA GKAF	87 87 87 87	Y..132S-4 AM132 AD3
21.0	2540	70.46	27500	1.05			
23.0	2270	63.00	27400	1.20			
26.0	2040	56.64	27200	1.30			
30.0	1770	49.16	26800	1.50			
33.0	1580	44.02	26500	1.65	GK GKF GKA GKAF	87 87 87 87	Y..132S-4 AM132 AD3
40.0	1310	36.52	25800	1.90			
46.0	1130	31.39	25100	2.40	GK GKF GKA GKAF	87 87 87 87	Y..132S-4 AM132 AD4
52.0	1000	27.88	24600	2.60			
32.0	1630	45.16	14800	0.95	GK GKF GKA GKAF	77 77 77 77	Y..132S-4 AM132 AD2
36.0	1440	40.04	16100	1.05	GK GKF GKA GKAF	77 77 77 77	Y..132S-4 AM132 AD3
47.0	1110	30.89	17800	1.40			
50.0	1050	29.27	18100	1.45	GK GKF GKA GKAF	77 77 77 77	Y..132S-4 AM132 AD4
57.0	920	25.62	18600	1.70			
63.0	830	23.08	18900	1.85			
72.0	730	20.25	19200	2.00			
81.0	640	17.87	19400	2.20			
92.0	570	15.84	19100	2.40			
108	485	13.52	18500	2.80			
61.0	860	24	9880	0.90	GK GKF GKA GKAF	67 67 67 67	Y..132S-4 AM132 AD3
64.0	810	22.66	10300	0.95			
75.0	695	19.3	11300	1.10			
83.0	630	17.54	11700	1.15			
96.0	545	15.19	12200	1.30			
110	475	13.22	12500	1.40			
117	450	12.48	12600	1.20			
137	380	10.63	12400	1.30	GK GKF GKA GKAF	67 67 67 67	Y..132S-4 AM132 AD3
151	345	9.66	12200	1.40			
174	300	8.37	11900	1.45			
200	260	7.28	11600	1.60			
280	188	5.2	10800	1.85			
P ₁ =7.5kw							
1.80	37100	835	190000	1.35	GK GKH	187 GRF107 187 GRF107	Y..132M-4 AM132 AD5
2.00	32200	729	190000	1.55	GK GKH	187 GRF107 187 GRF107	Y..132M-4 AM132 AD6
2.40	27400	622	190000	1.80			

n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
P₁=7.5kw						
1.20	53600	1196	190000	0.95	GK 187 GRF97 GKH 187 GRF97	Y..132M-4 AM132 AD5
1.40	46800	1046	190000	1.05		
1.60	42300	945	190000	1.20		
2.00	33000	738	190000	1.50		
2.40	27700	621	190000	1.80		
2.80	23400	527	190000	2.10		
1.70	37600	843	150000	0.85	GK 167 GRF97 GKH 167 GRF97	Y..132M-4 AM132 AD5
1.90	33800	757	150000	0.95		
2.30	28300	632	150000	1.15		
2.60	24900	561	150000	1.30		
3.10	21500	481	150000	1.50		
3.50	18800	423	150000	1.70		
4.00	16400	369	150000	1.95	GK 167 GRF97 GKH 167 GRF97	Y..132M-4 AM132 AD5
3.40	19300	434	111500	0.95	GK 157 GRF97 GKF 157 GRF97 GKA 157 GRF97 GKAF157 GRF97	Y..132M-4 AM132 AD5
3.90	16800	379	112700	1.05		
4.40	14800	333	113600	1.20		
5.00	12900	291	114400	1.40		
4.40	14800	330	76200	0.85		
5.10	12800	287	79300	1.00	GK 127 GRF87 GKF 127 GRF87 GKA 127 GRF87 GKAF127 GRF87	Y..132M-4 AM132 AD5
5.80	11300	253	80000	1.15		
6.90	9550	213	80900	1.35		
7.30	9100	200	81100	1.30		
8.80	7530	166	81600	1.60		
10.0	6640	147	81900	1.80		
10.0	7110	146.07	81700	1.85	GK 127 GKF 127 GKA 127 GKAF127	Y..132M-4 AM132 AD4
11.0	6630	136.14	81900	1.95		
12.0	5960	122.48	82100	2.20		
13.0	5360	110.18	82200	2.40		
16.0	4370	89.89	82400	3.00	GK 127 GKF 127 GKA 127 GKAF127	Y..132M-4 AM132 AD5
18.0	3990	81.98	82500	3.20		
21.0	3450	70.95	82600	3.80		
10.0	6990	143.47	65000	1.15		
12.0	5910	121.46	65000	1.35	GK 107 GKF 107 GKA 107 GKAF107	Y..132M-4 AM132 AD4
13.0	5470	112.41	65000	1.45		
15.0	4900	100.75	64900	1.65		
16.0	4430	90.96	63900	1.80		
18.0	4020	82.61	62900	2.00		
20.0	3570	73.3	61600	2.20		
22.0	3240	66.52	60500	2.50		
26.0	2780	57.17	58800	2.90		
29.0	2430	49.9	57100	3.20		
35.0	2060	42.33	55100	3.60	GK 107 GKF 107 GKA 107 GKAF107	Y..132M-4 AM132 AD5
40.0	1800	37.00	53500	4.00		

n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size		Input Configuration			
P ₁ =7.5kw										
15.0	4710	96.8	38300	0.90	GK GKF GKA GKAF	97	Y..132M-4 AM132 AD3			
17.0	4210	86.52	38300	1.00						
19.0	3790	77.89	38100	1.15						
21.0	3430	70.54	37800	1.25						
15.0	4710	96.8	38300	0.90						
17.0	4210	86.52	38300	1.00						
19.0	3790	77.89	38100	1.15						
21.0	3430	70.54	37800	1.25						
24.0	3040	62.55	37400	1.40	GK GKF GKA GKAF	97	Y..132M-4 AM132 AD4			
26.0	2750	56.55	37000	1.55						
31.0	2330	47.93	36200	1.85						
35.0	2030	41.87	35500	2.10						
38.0	1860	38.3	35000	2.30	GK GKF GKA GKAF	97	Y..132M-4 AM132 AD5			
43.0	1660	34.23	34300	2.60						
23.0	3060	63.00	24100	0.90	GK GKF GKA GKAF	87	Y..132M-4 AM132 AD3			
26.0	2750	56.64	24200	1.00						
30.0	2390	49.16	24200	1.15						
33.0	2140	44.02	24100	1.20						
40.0	1770	36.52	23800	1.40						
47.0	1520	31.39	23400	1.75	GK GKF GKA GKAF	87	Y..132M-4 AM132 AD4			
53.0	1350	27.88	23100	1.90						
59.0	1210	24.92	22700	2.10						
66.0	1090	22.41	22400	2.10						
76.0	940	19.45	21800	2.40						
84.0	840	17.42	21400	2.60						
92.0	775	16	20500	2.30						
102	700	14.45	20600	3.00						
48.0	1500	30.89	15700	1.05	GK GKF GKA GKAF	77	Y..132M-4 AM132 AD3			
50.0	1420	29.27	16200	1.10						
57.0	1240	25.62	17200	1.25						
64.0	1120	23.08	17800	1.40						
73.0	980	20.25	18400	1.50	GK GKF GKA GKAF	77	Y..132M-4 AM132 AD4			
82.0	870	17.87	18500	1.65						
93.0	770	15.84	18100	1.80						
109	655	13.52	17700	2.00						
119	600	12.36	17000	1.65						
136	525	10.84	16600	1.90						
154	465	9.56	16200	2.00						
173	410	8.48	15800	2.20						
203	350	7.24	15300	2.30						
P ₁ =11.0kw										
1.80	54600	835	190000	0.90				GK GKH	187 GRF107	Y..160M-4 AM160 AD5
2.80	34300	520	190000	1.45						
2.00	47500	729	190000	1.05	GK GKH	187 GRF107	Y..160M-4 AM160 AD6			
2.40	40500	622	190000	1.25						



n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
$P_1=11.0\text{kw}$						
3.20	29900	454	190000	1.65	GK 187 GRF107	Y..160M-4
4.20	23100	355	190000	2.20	GKH 187 GRF107	AM160
						AD6
2.00	48500	738	190000	1.05	GK 187 GRF97	Y..160M-4
2.40	40800	621	190000	1.20	GKH 187 GRF97	AM160
2.80	34500	527	190000	1.45		AD5
4.60	21000	318	150000	1.50	GK 167 GRF107	Y..160M-4
					GKH 167 GRF107	AM160
						AD5
5.30	18200	278	150000	1.75	GK 167 GRF107	Y..160M-4
6.00	15800	244	150000	2.00	GKH 167 GRF107	AM160
6.90	13800	213	150000	2.30		AD6
7.20	13400	206	150000	2.40		
2.60	36600	561	150000	0.85	GK 167 GRF97	Y..160M-4
3.10	31600	481	150000	1.00	GKH 167 GRF97	AM160
3.50	27700	423	150000	1.15		AD5
4.00	24100	369	150000	1.30		
4.40	21800	333	110000	0.80	GK 157 GRF97	Y..160M-4
5.10	19000	291	111600	0.95	GKF 157 GRF97	AM160
					GKA 157 GRF97	AD5
					GKAF157 GRF97	
6.90	14000	213	77900	0.95	GK 127 GRF87	Y..160M-4
7.40	13300	200	79000	0.90	GKF 127 GRF87	AM160
8.90	11000	166	80200	1.10	GKA 127 GRF87	AD5
10.0	9760	147	80800	1.25	GKAF127 GRF87	
9.00	11700	164.5	150000	2.70	GK 167	Y..160M-4
					GKF 167	AM160
					GKA 167	AD5
					GKAF167	
11.0	9610	134.99	150000	3.30	GK 167	Y..160M-4
					GKF 167	AM160
					GKA 167	AD6
					GKAF167	
9.80	10700	150.41	115100	1.70	GK 157	Y..160M-4
12.0	8710	122.39	115600	2.10	GKF 157	AM160
15.0	7130	100.22	116000	2.50	GKA 157	AD5
16.0	6520	91.65	116100	2.80	GKAF157	
11.0	9690	136.14	80800	1.35	GK 127	Y..160M-4
12.0	8720	122.48	81200	1.50	GKF 127	AM160
13.0	7840	110.18	81500	1.65	GKA 127	AD4
					GKAF127	
16.0	6400	89.89	82000	2.00	GK 127	Y..160M-4
18.0	5830	81.98	82100	2.20	GKF 127	AM160
21.0	5050	70.95	82300	2.60	GKA 127	AD5
					GKAF127	
13.0	8000	112.41	57800	1.00	GK 107	Y..160M-4
15.0	7170	100.75	58200	1.10	GKF 107	AM160
16.0	6470	90.96	57900	1.25	GKA 107	AD4
18.0	5880	82.61	57400	1.35	GKAF107	

n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
$P_1=11.0\text{kw}$						
20.0	5210	73.3	56700	1.55	GK 107	Y..160M-4
22.0	4730	66.52	56100	1.70	GKF 107	AM160
26.0	4070	57.17	54900	1.95	GKA 107	AD4
30.0	3550	49.9	53800	2.20	GKAF107	
35.0	3010	42.33	52300	2.40	GK 107	Y..160M-4
40.0	2630	37.00	51000	2.70	GKF 107	AM160
					GKA 107	AD5
					GKAF107	
21.0	5020	70.54	32300	0.85	GK 97	Y..160M-4
					GKF 97	AM160
					GKA 97	AD3
					GKAF 97	
24.0	4450	62.55	32500	0.95	GK 97	Y..160M-4
26.0	4020	56.55	32500	1.05	GKF 97	AM160
31.0	3410	47.93	32400	1.25	GKA 97	AD4
35.0	2980	41.87	32200	1.45	GKAF 97	
39.0	2720	38.3	31900	1.60		
43.0	2430	34.23	31600	1.75	GK 97	Y..160M-4
48.0	2190	30.82	31200	1.95	GKF 97	AM160
53.0	1980	27.91	30700	2.20	GKA 97	AD5
60.0	1760	24.75	30200	2.40	GKAF 97	
66.0	1590	22.37	29700	2.70		
34.0	3130	44.02	20100	0.85	GK 87	Y..160M-4
40.0	2600	36.52	20500	0.95	GKF 87	AM160
					GKA 87	AD3
					GKAF 87	
47.0	2230	31.39	20600	1.20		
53.0	1980	27.88	20500	1.30		
59.0	1770	24.92	20400	1.40		
66.0	1590	22.41	20300	1.45	GK 87	Y..160M-4
76.0	1380	19.45	20000	1.65	GKF 87	AM160
85.0	1230	17.42	19800	1.75	GKA 87	AD4
92.0	1130	16	18800	1.60	GKAF 87	
102.0	1020	14.45	19300	2.00		
117.0	890	12.56	18900	2.20		
132.0	790	11.17	17900	1.90		
148	710	10	17600	2.10	GK 87	Y..160M-4
178	590	8.29	17000	2.40	GKF 87	AM160
205	510	7.21	16600	2.50	GKA 87	AD5
					GKAF 87	
64.0	1640	23.08	14700	0.95		
73.0	1440	20.25	16100	1.05		
83.0	1270	17.87	16600	1.15		
93.0	1120	15.84	16500	1.25	GK 77	Y..160M-4
109	960	13.52	16200	1.40	GKF 77	AM160
119	870	12.36	15500	1.15	GKA 77	AD4
136	770	10.84	15300	1.30	GKAF 77	
154	680	9.56	15000	1.40		
174	600	8.48	14800	1.45		
204	515	7.24	14400	1.60		

n ₂ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =15.0kw						
2.80	47400	520	190000	1.05	GK 187 GRF107 GKH 187 GRF107	Y..160L-4 AM160 AD5
2.40	55900	622	190000	0.90	GK 187 GRF107 GKH 187 GRF107	Y..160L-4 AM160 AD6
3.20	41200	454	190000	1.20		
4.10	31900	355	190000	1.55		
5.60	23700	261	190000	2.10		
4.60	28900	318	150000	1.10	GK 167 GRF107 GKH 167 GRF107	Y..160L-4 AM160 AD5
5.30	25200	278	150000	1.25	GK 167 GRF107 GKH 167 GRF107	Y..160L-4 AM160 AD6
6.00	21800	244	150000	1.45		
6.90	19000	213	150000	1.70		
7.10	18600	206	150000	1.70		
8.10	16000	180	150000	2.00		
9.20	14500	160	150000	2.20		
6.40	20500	230	110800	0.90	GK 157 GRF107 GKF 157 GRF107 GKA 157 GRF107 GKAF157 GRF107	Y..160L-4 AM160 AD6
6.90	19300	213	111500	0.95		
7.80	16600	187	112800	1.10		
9.30	14100	157	113900	1.25		
12.0	11000	122	115000	1.60		
14.0	9670	107	115400	1.85		
8.90	16000	164.5	150000	2.00	GK 167 GKH 167	Y..160L-4 AM160 AD5
11.0	13100	134.99	150000	2.40	GK 167 GKH 167	Y..160L-4 AM160 AD6
9.70	14700	150.41	113700	1.20	GK 157 GKF 157 GKA 157 GKAF157	Y..160L-4 AM160 AD5
12.0	11900	122.39	114700	1.50		
15.0	9790	100.22	114100	1.85		
16.0	8960	91.65	112400	2.00		
18.0	7790	79.75	109500	2.30		
11.0	13300	136.14	79000	1.00	GK 127 GKF 127 GKA 127 GKAF127	Y..160L-4 AM160 AD4
12.0	11900	122.48	79700	1.10		
13.0	10700	110.18	80300	1.20		
16.0	8780	89.89	81200	1.50		
18.0	8010	81.98	81500	1.60	GK 127 GKF 127 GKA 127 GKAF127	Y..160L-4 AM160 AD5
21.0	6930	70.95	81500	1.85		
23.0	6120	62.6	79900	2.10		
27.0	5280	54.07	77900	2.50		
31.0	4670	47.82	76200	2.80		
16.0	8890	90.96	48200	0.90	GK 107 GKF 107 GKA 107 GKAF107	Y..160L-4 AM160 AD4
18.0	8070	82.61	49400	1.00		
20.0	7160	73.3	50500	1.10		
22.0	6500	66.52	51000	1.25		
26.0	5590	57.17	50600	1.45		
29.0	4870	49.9	50000	1.60		

n ₂ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =15.0kw						
35.0	4130	42.33	49100	1.80	GK 107 GKF 107 GKA 107 GKAF107	Y..160L-4 AM160 AD5
40.0	3610	37.00	48200	2.00		
45.0	3190	32.69	47300	2.20		
47.0	3050	31.28	46900	2.20		
51.0	2830	29	46300	2.50	GK 107 GKF 107 GKA 107 GKAF107	Y..160L-4 AM160 AD6
31.0	4680	47.93	28100	0.90	GK 97 GKF 97 GKA 97 GKAF 97	Y..160L-4 AM160 AD4
35.0	4090	41.87	28400	1.05		
38.0	3740	38.3	28500	1.15	GK 97 GKF 97 GKA 97 GKAF 97	Y..160L-4 AM160 AD5
43.0	3340	34.23	28500	1.30		
48.0	3010	30.82	28400	1.45		
53.0	2720	27.91	28200	1.60		
59.0	2410	24.75	28000	1.80	GK 97 GKF 97 GKA 97 GKAF 97	Y..160L-4 AM160 AD5
65.0	2180	22.37	27700	1.95		
77.0	1850	18.96	27200	2.30		
88.0	1610	16.56	26600	2.70		
47.0	3060	31.39	17300	0.90		
53.0	2720	27.88	17600	0.95		
59.0	2430	24.92	17800	1.05	GK 87 GKF 87 GKA 87 GKAF 87	Y..160L-4 AM160 AD4
65.0	2190	22.41	18000	1.05		
75.0	1900	19.45	18000	1.20		
84.0	1700	17.42	18000	1.30		
92.0	1560	16	16800	1.15		
101	1410	14.45	17800	1.50		
117	1220	12.56	17600	1.65		
131	1090	11.17	16600	1.35		
147	970	10	16400	1.55	GK 87 GKF 87 GKA 87 GKAF 87	Y..160L-4 AM160 AD5
177	810	8.29	16000	1.75		
203	705	7.21	15700	1.85		
203	705	7.21	15700	1.85		
P ₁ =18.5kw						
2.80	58500	520	190000	0.85	GK 187 GRF107 GKH 187 GRF107	Y..180M-4 AM180 AD5
3.20	51000	454	190000	1.00	GK 187 GRF107 GKH 187 GRF107	Y..180M-4 AM180 AD6
4.10	39400	355	190000	1.25		
5.60	29300	261	190000	1.70		
6.60	24800	221	190000	2.00		
4.60	35800	318	150000	0.90	GK 167 GRF107 GKH 167 GRF107	Y..180M-4 AM180 AD5
5.30	31200	278	150000	1.00	GK 167 GRF107 GKH 167 GRF107	Y..180M-4 AM180 AD6
6.00	27000	244	150000	1.20		
6.90	23600	213	150000	1.35		
7.10	23000	206	150000	1.40		



n ₂ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =18.5kw						
8.10	19900	180	150000	1.60	GK 167 GRF107	Y..180M-4
9.20	17900	160	150000	1.80	GKH 167 GRF107	AM180
						AD6
11.0	15100	135	150000	2.10	GK 167 GRF107	Y..180M-4
12.0	13200	118	150000	2.40	GKH 167 GRF107	AM180
						AD6
7.80	20600	187	110700	0.85	GK 157 GRF107	Y..180M-4
9.30	17500	157	112400	1.05	GKF 157 GRF107	AM180
12.0	13700	122	113900	1.30	GKA 157 GRF107	AD6
14.0	11900	107	112000	1.50	GKAF157 GRF107	
8.20	21600	179.86	190000	2.30	GK 187	Y..180M-4
8.90	19900	165.21	190000	2.50	GKH 187	AM180
10.0	17400	144.59	190000	2.90		AD6
11.0	15600	129.69	190000	3.20	GK 187	Y..180M-4
					GKH 187	AM180
						AD7
11.0	16200	134.99	150000	1.95	GK 167	Y..180M-4
13.0	13200	109.83	150000	2.40	GKH 167	AM180
						AD6
17.0	10500	87.86	150000	3.00	GK 167	Y..180M-4
					GKH 167	AM180
						AD7
12.0	14700	122.39	111600	1.20	GK 157	Y..180M-4
15.0	12000	100.22	109100	1.50	GKF 157	AM180
16.0	11000	91.65	107800	1.65	GKA 157	AD5
18.0	9610	79.75	105600	1.85	GKAF157	
21.0	8480	70.38	103400	2.10		
24.0	7350	61.02	100700	2.40		
27.0	6540	54.29	98500	2.80	GK 157	Y..180M-4
					GKF 157	AM180
					GKA 157	AD6
					GKAF157	
31.0	5640	46.79	95500	3.20	GK 157	Y..180M-4
39.0	4580	38.02	91300	3.90	GKF 157	AM180
					GKA 157	AD7
					GKAF157	
13.0	13200	110.18	79000	1.00	GK 127	Y..180M-4
					GKF 127	AM180
					GKA 127	AD4
					GKAF127	
16.0	10800	89.89	79000	1.20	GK 127	Y..180M-4
18.0	9880	81.98	78500	1.30	GKF 127	AM180
21.0	8550	70.95	77500	1.50	GKA 127	AD5
23.0	7540	62.6	76400	1.70	GKAF127	

n ₂ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =18.5kw						
27.0	6510	54.07	74800	2.00	GK 127	Y..180M-4
31.0	5760	47.82	73400	2.20	GKF 127	AM180
					GKA 127	AD5
					GKAF127	
36.0	4840	40.19	71300	2.70	GK 127	Y..180M-4
					GKF 127	AM180
					GKA 127	AD6
					GKAF127	
40.0	4370	36.25	69900	3.00	GK 127	Y..180M-4
47.0	3780	31.37	68000	3.40	GKF 127	AM180
53.0	3330	27.68	66200	3.90	GKA 127	AD7
					GKAF127	
20.0	8830	73.3	42700	0.90	GK 107	Y..180M-4
22.0	8020	66.52	44200	1.00	GKF 107	AM180
26.0	6890	57.17	45800	1.15	GKA 107	AD4
29.0	6010	49.9	46600	1.30	GKAF107	
35.0	5100	42.33	46300	1.45	GK 107	Y..180M-4
40.0	4460	37.00	45700	1.60	GKF 107	AM180
45.0	3940	32.69	45100	1.85	GKA 107	AD5
47.0	3770	31.28	44800	1.80	GKAF107	
51.0	3490	29	44400	2.10	GK 107	Y..180M-4
56.0	3170	26.32	43800	2.30	GKF 107	AM180
65.0	2720	22.62	42700	2.60	GKA 107	AD6
74.0	2380	19.74	41700	3.00	GKAF107	
88.0	2010	16.75	40400	3.50		
35.0	5040	41.87	25100	0.85	GK 97	Y..180M-4
					GKF 97	AM180
					GKA 97	AD4
					GKAF 97	
48.0	3710	30.82	26000	1.15	GK 97	Y..180M-4
53.0	3360	27.91	26000	1.30	GKF 97	AM180
59.0	2980	24.75	26000	1.45	GKA 97	AD5
65.0	2690	22.37	25900	1.60	GKAF 97	
77.0	2280	18.96	25700	1.90	GK 97	Y..180M-4
88.0	1990	16.56	25300	2.20	GKF 97	AM180
					GKA 97	AD5
					GKAF 97	
106	1670	13.85	24800	2.60	GK 97	Y..180M-4
					GKF 97	AM180
					GKA 97	AD6
					GKAF 97	
59.0	3000	24.92	15600	0.85	GK 87	Y..180M-4
65.0	2700	22.41	15900	0.85	GKF 87	AM180
75.0	2340	19.45	16200	1.00	GKA 87	AD4
84.0	2090	17.42	16400	1.05	GKAF 87	
101	1740	14.45	16500	1.20		
117	1510	12.56	16400	1.30		
131	1340	11.17	15400	1.10		

n ₂ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size		Input Configuration
P ₁ =18.5kw							
147	1200	10	15300	1.25	GK	87	Y..180M-4 AM180 AD5
177	1000	8.29	15100	1.40	GKF	87	
203	860	7.21	14900	1.50	GKA	87	
					GKAF	87	
P ₁ =22kw							
3.20	60400	454	190000	0.85	GK	187 GRF107	Y..180L-4 AM180 AD6
4.20	46700	355	190000	1.05			
5.60	34700	261	190000	1.45			
6.70	29400	221	190000	1.70			
7.60	25600	193	190000	1.95			
9.00	21600	163	190000	2.30	GKH	187 GRF107	
5.30	36900	278	150000	0.85	GK	167 GRF107	Y..180L-4 AM180 AD6
6.00	32000	244	150000	1.00			
6.90	27900	213	150000	1.15			
7.20	27200	206	150000	1.15			
8.20	23500	180	150000	1.35			
9.20	21200	160	150000	1.50			
11.0	17900	135	150000	1.80			
12.0	15600	118	150000	2.00			
9.40	20700	157	109400	0.85	GK	157 GRF107	Y..180L-4 AM180 AD6
12.0	16200	122	108100	1.10			
14.0	14100	107	106900	1.25			
8.20	25600	179.86	190000	1.95	GK	187	Y..180L-4 AM180 AD6
8.90	23500	165.21	190000	2.10			
10.0	20500	144.59	190000	2.40			
11.0	18400	129.69	190000	2.70	GKH	187	
11.0	19200	134.99	150000	1.65	GK	167	Y..180L-4 AM180 AD6
13.0	15600	109.83	150000	2.00			
17.0	12500	87.86	150000	2.60	GK	167	Y..180L-4 AM180 AD7
19.0	11100	78.14	150000	2.90			
12.0	17400	122.39	105500	1.05	GK	157	Y..180L-4 AM180 AD5
15.0	14200	100.22	104000	1.25			
16.0	13000	91.65	103200	1.40			
18.0	11300	79.75	101500	1.60			
21.0	10000	70.38	99700	1.80			
24.0	8690	61.02	97600	2.10			
27.0	7730	54.29	95700	2.30	GKF	157	
32.0	6660	46.79	93100	2.70	GKA	157	Y..180L-4 AM180 AD7
39.0	5410	38.02	89300	3.30	GKAF	157	

n ₂ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =22kw						
16.0	12800	89.89	73900	1.00	GK 127 GKF 127 GKA 127 GKAF127	Y..180L-4 AM180 AD5
18.0	11600	81.98	73800	1.10		
21.0	10100	70.95	73400	1.30		
24.0	8910	62.6	72700	1.45		
27.0	7700	54.07	71700	1.70		
31.0	6810	47.82	70600	1.90		
37.0	5720	40.19	68900	2.30	GK 127 GKF 127 GKA 127 GKAF127	Y..180L-4 AM180 AD6
41.0	5160	36.25	67800	2.50	GK 127 GKF 127 GKA 127 GKAF127	Y..180L-4 AM180 AD7
47.0	4460	31.37	66100	2.90		
53.0	3940	27.68	64500	3.30		
62.0	3400	23.91	62700	3.80		
70.0	3010	21.15	61100	4.30	GK 127 GKF 127 GKA 127 GKAF127	Y..180L-4 AM180 AD8
26.0	8140	57.17	39800	1.00	GK 107 GKF 107 GKA 107 GKAF107	Y..180L-4 AM180 AD4
30.0	7100	49.9	41600	1.10		
35.0	6020	42.33	42900	1.20	GK 107 GKF 107 GKA 107 GKAF107	Y..180L-4 AM180 AD5
40.0	5260	37.00	43200	1.35		
45.0	4650	32.69	42900	1.55		
47.0	4450	31.28	42700	1.55		
51.0	4120	29	42400	1.75	GK 107 GKF 107 GKA 107 GKAF107	Y..180L-4 AM180 AD6
56.0	3740	26.32	42000	1.90		
65.0	3220	22.62	41200	2.20		
75.0	2810	19.74	40400	2.60		
88.0	2380	16.75	39300	3.00	GK 107 GKF 107 GKA 107 GKAF107	Y..180L-4 AM180 AD6
101	2080	14.64	38300	3.30		
110	1910	13.43	36700	2.20		
126	1660	11.73	35800	2.60		
148	1410	9.94	34700	3.00		
48.0	4380	30.82	23500	1.00	GK 97 GKF 97 GKA 97 GKAF 97	Y..180L-4 AM180 AD5
53.0	3970	27.91	23800	1.10		
60.0	3520	24.75	24100	1.20		
66.0	3180	22.37	24200	1.35		
78.0	2700	18.96	24100	1.60		
89.0	2350	16.56	24000	1.80		
106	1970	13.85	23700	2.20	GK 97 GKF 97 GKA 97 GKAF 97	Y..180L-4 AM180 AD6
123	1700	11.99	23300	2.30		



n ₂ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =22kw						
142	1480	10.41	21800	1.95	GK 97 GKF 97 GKA 97 GKAF 97	Y..180L-4 AM180 AD5
169	1240	8.71	21300	2.20	GK 97 GKF 97 GKA 97 GKAF 97	Y..180L-4 AM180 AD6
76.0 85.0 102 117 132	2760 2470 2050 1780 1580	19.45 17.42 14.45 12.56 11.17	14500 14800 15200 15300 14200	0.85 0.90 1.00 1.10 0.95	GK 87 GKF 87 GKA 87 GKAF 87	Y..180L-4 AM180 AD4
148 178 205	1420 1180 1020	10 8.29 7.21	14200 14300 14200	1.05 1.20 1.25	GK 87 GKF 87 GKA 87 GKAF 87	Y..180L-4 AM180 AD5
P ₁ =30kw						
5.60 6.70 7.60 9.00	47400 40200 35100 29600	261 221 193 163	190000 190000 190000 190000	1.05 1.25 1.40 1.70	GK 187 GRF107 GKH 187 GRF107	Y..200L-4 AM200 AD6
6.90 7.20 8.20 9.20 11.0 12.0	38200 37300 32300 29000 24500 21400	213 206 180 160 135 118	150000 150000 150000 150000 150000 150000	0.85 0.85 1.00 1.10 1.30 1.50	GK 167 GRF107 GKH 167 GRF107	Y..200L-4 AM200 AD6
8.20 8.90 10.0	34900 32000 28000	179.86 165.21 144.59	190000 190000 190000	1.45 1.55 1.80	GK 187 GKF 187 GKA 187 GKAF187	Y..200L-4 AM200 AD6
11.0 13.0 14.0	25100 21800 19800	129.69 112.6 102.16	190000 190000 190000	2.00 2.30 2.50	GK 187 GKF 187 GKA 187 GKAF187	Y..200L-4 AM200 AD7
17.0	17000	88	190000	2.90	GK 187 GKF 187 GKA 187 GKAF187	Y..200L-4 AM200 AD8
13.0	21300	109.83	150000	1.50	GK 167 GKF 167 GKA 167 GKAF167	Y..200L-4 AM200 AD6
17.0 19.0 22.0 24.0	17000 15100 13200 11700	87.86 78.14 68.07 60.74	150000 150000 150000 150000	1.90 2.10 2.40 2.70	GK 167 GKF 167 GKA 167 GKAF167	Y..200L-4 AM200 AD7

n ₂ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =30kw						
15.0 16.0 18.0 21.0 24.0	19400 17800 15400 13600 11800	100.22 91.65 79.75 70.38 61.02	92700 92800 92400 91800 90700	0.90 1.00 1.15 1.30 1.50	GK 157 GKF 157 GKA 157 GKAF157	Y..200L-4 AM200 AD5
27.0	10500	54.29	89500	1.70	GK 157 GKF 157 GKA 157 GKAF157	Y..200L-4 AM200 AD6
32.0 39.0	9080 7380	46.79 38.02	87800 85000	2.00 2.40	GK 157 GKF 157 GKA 157 GKAF157	Y..200L-4 AM200 AD7
47.0	6070	31.3	82100	3.00	GK 157 GKF 157 GKA 157 GKAF157	Y..200L-4 AM200 AD8
21.0 24.0 27.0 31.0	13700 12100 10500 9280	70.95 62.6 54.07 47.82	64200 64600 64700 64400	0.95 1.05 1.25 1.40	GK 127 GKF 127 GKA 127 GKAF127	Y..200L-4 AM200 AD5
37.0	7800	40.19	63700	1.65	GK 127 GKF 127 GKA 127 GKAF127	Y..200L-4 AM200 AD6
41.0 47.0 53.0 62.0	7030 6090 5370 4640	36.25 31.37 27.68 23.91	63100 62000 61000 59600	1.85 2.10 2.40 2.80	GK 127 GKF 127 GKA 127 GKAF127	Y..200L-4 AM200 AD7
35.0 40.0 47.0	8220 7180 6070	42.33 37.00 31.28	32500 34700 36600	0.90 1.00 1.10	GK 107 GKF 107 GKA 107 GKAF107	Y..200L-4 AM200 AD5
51.0 56.0 65.0 75.0 88.0 101 110 126 148 170	5630 5100 4390 3830 3250 2840 2600 2270 1930 1680	29 26.32 22.62 19.74 16.75 14.64 13.43 11.73 9.94 8.69	37200 37700 37700 37400 36700 36100 34400 33800 32900 32200	1.30 1.40 1.65 1.90 2.20 2.40 1.65 1.90 2.20 2.40	GK 107 GKF 107 GKA 107 GKAF107	Y..200L-4 AM200 AD6
60.0 66.0 78.0 89.0	4800 4340 3680 3210	24.75 22.37 18.96 16.56	19600 20100 20700 21000	0.90 1.00 1.15 1.35	GK 97 GKF 97 GKA 97 GKAF 97	Y..200L-4 AM200 AD5

n ₂ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P _i =30kw						
106	2690	13.85	21200	1.60	GK 97 GKF 97 GKA 97 GKAF 97	Y..200L-4 AM200 AD6
123	2320	11.99	21100	1.65		
142	2020	10.41	19500	1.40	GK 97 GKF 97 GKA 97 GKAF 97	
169	1690	8.71	19400	1.55	GK 97 GKF 97 GKA 97 GKAF 97	
P _i =37kw						
5.70	58500	261	190000	0.85	GK 187 GRF107 GKH 187 GRF107	Y..225S-4 AM225 AD6
6.70	49600	221	190000	1.00		
7.60	43300	193	190000	1.15		
9.00	36500	163	190000	1.35		
8.20	39800	180	150000	0.80	GK 167 GRF107 GKH 167 GRF107	Y..225S-4 AM225 AD6
9.20	35800	160	150000	0.90		
11.0	30300	135	150000	1.05		
12.0	26400	118	150000	1.20		
8.20	43000	179.86	190000	1.15	GK 187 GKH 187	Y..225S-4 AM225 AD6
8.90	39500	165.21	190000	1.25		
10.0	34500	144.59	190000	1.45		
11.0	31000	129.69	190000	1.60	GK 187 GKH 187	Y..225S-4 AM225 AD7
13.0	26900	112.6	190000	1.85		
14.0	24400	102.16	190000	2.00		
17.0	21000	88	190000	2.40	GK 187 GKH 187	Y..225S-4 AM225 AD8
13.0	26200	109.83	150000	1.20	GK 167 GKH 167	Y..225S-4 AM225 AD6
17.0	21000	87.86	150000	1.50	GK 167 GKH 167	Y..225S-4 AM225 AD7
19.0	18600	78.14	150000	1.70		
22.0	16200	68.07	150000	1.95		
24.0	14500	60.74	150000	2.20		
29.0	12300	51.77	150000	2.60	GK 167 GKH 167	Y..225S-4 AM225 AD8
16.0	21900	91.65	83700	0.80	GK 157 GKF 157 GKA 157 GKAF157	Y..225S-4 AM225 AD5
19.0	19000	79.75	84500	0.95		
21.0	16800	70.38	84800	1.05		
24.0	14500	61.02	84600	1.25		

n ₂ [l/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =37kw						
27.0	12900	54.29	84100	1.40	GK 157 GKF 157 GKA 157 GKAF157	Y..225S-4 AM225 AD6
32.0 39.0	11100 9090	46.79 38.02	83100 81200	1.60 2.00	GK 157 GKF 157 GKA 157 GKAF157	Y..225S-4 AM225 AD7
47.0	7480	31.3	79000	2.40	GK 157 GKF 157 GKA 157 GKAF157	Y..225S-4 AM225 AD8
24.0 27.0 31.0	14900 12900 11400	62.6 54.07 47.82	57500 58500 59000	0.85 1.00 1.15	GK 127 GKF 127 GKA 127 GKAF127	Y..225S-4 AM225 AD5
37.0	9610	40.19	59100	1.35	GK 127 GKF 127 GKA 127 GKAF127	Y..225S-4 AM225 AD6
41.0 47.0 53.0 62.0	8660 7500 6620 5710	36.25 31.37 27.68 23.91	58900 58400 57800 56900	1.50 1.75 1.95 2.30	GK 127 GKF 127 GKA 127 GKAF127	Y..225S-4 AM225 AD7
70.0 83.0 103 116 137 170	5050 4250 3430 3050 2560 2070	21.15 17.77 14.35 12.79 10.74 8.68	55900 54500 52500 50200 48600 46500	2.60 3.10 3.50 2.80 3.10 3.50	GK 127 GKF 127 GKA 127 GKAF127	Y..225S-4 AM225 AD8
40.0 47.0	8850 7480	37.00 31.28	25900 29700	0.80 0.90	GK 107 GKF 107 GKA 107 GKAF107	Y..225S-4 AM225 AD5
51.0 56.0 65.0 75.0 88.0 101 110 126 149 170	6930 6290 5400 4720 4000 3500 3210 2800 2370 2070	29 26.32 22.62 19.74 16.75 14.64 13.43 11.73 9.94 8.69	31000 32300 33700 34400 34500 34100 32300 31900 31400 30900	1.05 1.15 1.35 1.50 1.75 1.95 1.35 1.55 1.75 1.95	GK 107 GKF 107 GKA 107 GKAF107	Y..225S-4 AM225 AD6
P ₁ =45kw						
6.70 7.60 9.00	60300 52700 44500	221 193 163	190000 190000 190000	0.85 0.95 1.10	GK 187 GRF107 GKH 187 GRF107	Y..225M-4 AM225 AD6



n ₁ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =45kw						
11.0	36900	135	150000	0.85	GK 167 GRF107	Y..225M-4
12.0	32200	118	150000	1.00	GKH 167 GRF107	AM225 AD6
8.20	52200	179.86	190000	0.95	GK 187	Y..225M-4
9.00	48000	165.21	190000	1.05	GKH 187	AM225 AD6
10.0	42000	144.59	190000	1.20		
11.0	37700	129.69	190000	1.35	GK 187	Y..225M-4
13.0	32700	112.6	190000	1.55	GKH 187	AM225 AD7
14.0	29700	102.16	190000	1.70		
17.0	25500	88	190000	1.95	GK 187	Y..225M-4
20.0	21500	73.96	187500	2.30	GKH 187	AM225 AD8
13.0	31900	109.83	150000	1.00	GK 167	Y..225M-4
					GKH 167	AM225 AD6
17.0	25500	87.86	150000	1.25	GK 167	Y..225M-4
19.0	22700	78.14	150000	1.40	GKH 167	AM225 AD7
22.0	19700	68.07	150000	1.60		
24.0	17600	60.74	148900	1.80		
29.0	15000	51.77	145200	2.10	GK 167	Y..225M-4
34.0	12400	42.89	140500	2.60	GKH 167	AM225 AD8
21.0	20400	70.38	76800	0.90	GK 157	Y..225M-4
24.0	17700	61.02	77700	1.00	GKF 157	AM225
					GKA 157	AD5
					GKAF157	
27.0	15700	54.29	77900	1.15	GK 157	Y..225M-4
					GKF 157	AM225
					GKA 157	AD6
					GKAF157	
32.0	13600	46.79	77800	1.30	GK 157	Y..225M-4
39.0	11000	38.02	76900	1.65	GKF 157	AM225
					GKA 157	AD7
					GKAF157	
47.0	9100	31.3	75500	2.00	GK 157	Y..225M-4
54.0	8030	27.62	74300	2.20	GKF 157	AM225
62.0	6960	23.95	72800	2.60	GKA 157	AD8
69.0	6190	21.31	71400	2.90	GKAF157	
80.0	5330	18.37	69600	3.40		
31.0	13900	47.82	52800	0.95	GK 127	Y..225M-4
					GKF 127	AM225
					GKA 127	AD5
					GKAF127	
37.0	11600	40.19	53900	1.10	GK 127	Y..225M-4
					GKF 127	AM225
					GKA 127	AD6
					GKAF127	

n ₁ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =45kw						
41.0	10500	36.25	54200	1.25	GK 127	Y..225M-4
47.0	9110	31.37	54400	1.45	GKF 127	AM225
53.0	8040	27.68	54200	1.60	GKA 127	AD7
62.0	6940	23.91	53800	1.85	GKAF127	
70.0	6140	21.15	53200	2.10		
83.0	5160	17.77	52200	2.50	GK 127	Y..225M-4
103	4170	14.35	50600	2.90	GKF 127	AM225
116	3710	12.79	48300	2.30	GKA 127	AD8
138	3120	10.74	47000	2.60	GKAF127	
170	2520	8.68	45200	2.90		
51.0	8420	29	22900	0.85		
56.0	7640	26.32	25300	0.95		
65.0	6570	22.62	28100	1.10		
75.0	5730	19.74	29800	1.25	GK 107	Y..225M-4
88.0	4860	16.75	31100	1.45	GKF 107	AM225
101	4250	14.64	31700	1.60	GKA 107	AD6
110	3900	13.43	29900	1.10	GKAF107	
126	3400	11.73	29900	1.25		
149	2890	9.94	29600	1.45		
170	2520	8.69	29300	1.60		
P ₁ =55kw						
10.0	51400	144.59	190000	0.95	GK 187	Y..250M-4
					GKH 187	AM250 AD6
11.0	46100	129.69	190000	1.10	GK 187	Y..250M-4
13.0	40000	112.6	188600	1.25	GKH 187	AM250
14.0	36300	102.16	187100	1.35		AD7
17.0	31300	88	184200	1.60		
20.0	26300	73.96	180200	1.90	GK 187	Y..250M-4
23.0	22800	64.04	176300	2.20	GKH 187	AM250 AD8
17.0	31200	87.86	145300	1.00		
19.0	27800	78.14	144600	1.15	GK 167	Y..250M-4
22.0	24200	68.07	143300	1.30	GKH 167	AM250
24.0	21600	60.74	141700	1.50		AD7
28.0	18400	51.77	139100	1.75		
34.0	15200	42.89	135400	2.10	GK 167	Y..250M-4
40.0	13000	36.61	131900	2.40	GKH 167	AM250 AD8
24.0	21700	61.02	69000	0.85	GK 157	Y..250M-4
					GKF 157	AM250
					GKA 157	AD5
					GKAF157	
27.0	19300	54.29	70200	0.95	GK 157	Y..250M-4
					GKF 157	AM250
					GKA 157	AD6
					GKAF157	
32.0	16600	46.79	71200	1.10	GK 157	Y..250M-4
39.0	13500	38.02	71500	1.35	GKF 157	AM250
					GKA 157	AD7
					GKAF157	

n ₂ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =55kw						
47.0	11100	31.3	71000	1.60	GK 157 GKF 157 GKA 157 GKAF157	Y..250M-4 AM250 AD8
53.0	9830	27.62	70400	1.85		
62.0	8520	23.95	69400	2.10		
69.0	7580	21.31	68400	2.40		
80.0	6530	18.37	67000	2.80		
99.0	5310	14.92	64800	3.40		
117	4500	12.65	62900	3.80		
37.0	14300	40.19	47400	0.90	GK 127 GKF 127 GKA 127 GKAF127	Y..250M-4 AM250 AD6
47.0	11100	31.37	49300	1.15	GK 127 GKF 127 GKA 127 GKAF127	Y..250M-4 AM250 AD7
53.0	9850	27.68	49700	1.30		
62.0	8510	23.91	49900	1.55		
70.0	7520	21.15	49800	1.75	GK 127 GKF 127 GKA 127 GKAF127	Y..250M-4 AM250 AD8
83.0	6320	17.77	49300	2.00		
103	5100	14.35	48300	2.40		
115	4550	12.79	45900	1.85		
137	3820	10.74	45000	2.10		
170	3080	8.68	43600	2.30		
P ₁ =75kw						
11.0	62700	129.69	164100	0.80	GK 187 GKH 187	Y..280S-4 AM280 AD7
13.0	54400	112.6	166100	0.90		
14.0	49400	102.16	166600	1.00		
17.0	42500	88	166600	1.15	GK 187 GKH 187	Y..280S-4 AM280 AD8
20.0	35700	73.96	165300	1.40		
23.0	30900	64.04	163400	1.60		
28.0	25800	53.36	160100	1.95		
33.0	22000	45.5	156700	2.30		
19.0	37800	78.14	126200	0.85	GK 167 GKH 167	Y..280S-4 AM280 AD7
22.0	32900	68.07	127200	0.95		
24.0	29300	60.74	127300	1.10		
29.0	25000	51.77	126800	1.30	GK 167 GKH 167	Y..280S-4 AM280 AD8
34.0	20700	42.89	125200	1.55		
40.0	17700	36.61	123200	1.80		
46.0	15600	32.25	121300	2.00		
51.0	13900	28.77	119300	2.30		
60.0	11800	24.52	116300	2.70		
39.0	18300	38.02	60800	1.00	GK 157 GKF 157 GKA 157 GKAF157	Y..280S-4 AM280 AD7
47.0	15100	31.3	62200	1.20	GK 157 GKF 157 GKA 157 GKAF157	Y..280S-4 AM280 AD8
54.0	13300	27.62	62600	1.35		
62.0	11500	23.95	62600	1.55		
69.0	10300	21.31	62400	1.75		
81.0	8880	18.37	61800	2.00		
99.0	7220	14.92	60500	2.50		
117	6120	12.65	59300	2.80		

n ₂ [1/min]	M ₂ [Nm]	i	Fr [N]	K	Frame size	Input Configuration
P ₁ =75kw						
47.0	15100	31.37	37900	0.85	GK 127 GKF 127 GKA 127 GKAF127	Y..280S-4 AM280 AD7
53.0	13300	27.68	40800	0.95		
62.0	11500	23.91	42200	1.10		
70.0	10200	21.15	42900	1.25	GK 127 GKF 127 GKA 127 GKAF127	Y..280S-4 AM280 AD8
83.0	8590	17.77	43600	1.50		
103	6940	14.35	43700	1.75		
116	6180	12.79	41100	1.40		
138	5190	10.74	41000	1.55		
171	4190	8.68	40400	1.70		
P ₁ =90kw						
14.0	59300	102.16	151300	0.85	GK 187 GKH 187	Y..280M-4 AM280 AD7
17.0	51100	88	153400	1.00	GK 187 GKH 187	Y..280M-4 AM280 AD8
20.0	42900	73.96	154200	1.15		
23.0	37100	64.04	153800	1.35		
28.0	30900	53.36	152200	1.60		
33.0	26400	45.50	149900	1.90		
35.0	24600	42.51	148700	2.00		
38.0	22300	38.57	146900	2.20		
22.0	39500	68.07	115100	0.80	GK 167 GKH 167	Y..280M-4 AM280 AD7
24.0	35200	60.74	116600	0.90		
29.0	30000	51.77	117600	1.05	GK 167 GKH 167	Y..280M-4 AM280 AD8
34.0	24900	42.89	117600	1.30		
40.0	21200	36.61	116700	1.50		
46.0	18700	32.25	115500	1.70		
51.0	16700	28.77	114200	1.90		
60.0	14200	24.52	111900	2.20		
73.0	11700	20.32	108800	2.70		
85.0	10000	17.34	106000	3.20		
39.0	22000	38.02	52700	0.80	GK 157 GKF 157 GKA 157 GKAF157	Y..280M-4 AM280 AD7
62.0	13900	23.95	57500	1.30	GK 157 GKF 157 GKA 157 GKAF157	Y..280M-4 AM280 AD8
69.0	12300	21.31	57900	1.45		
81.0	10600	18.37	57900	1.70		
99.0	8660	14.92	57400	2.10		
117	6120	12.65	59300	2.80		
62.0	13800	23.91	35400	0.95	GK 127 GKF 127 GKA 127 GKAF127	Y..280M-4 AM280 AD7
70.0	12200	21.15	37800	1.05	GK 127 GKF 127 GKA 127 GKAF127	Y..280M-4 AM280 AD8
83.0	10300	17.77	39200	1.25		
103	8330	14.35	40200	1.45		
116	7420	12.79	37600	1.15		
138	6230	10.74	38000	1.30		
171	5030	8.68	38000	1.45		



n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
P ₁ =110kw						
17.0	62300	88	135900	0.80	GK 187 GKH 187	Y..315S-4 - AD8
20.0	52300	73.96	139500	0.95		
23.0	45300	64.04	141000	1.10		
28.0	37700	53.36	141500	1.30		
33.0	32200	45.50	140800	1.55		
35.0	30100	42.51	140200	1.65		
38.0	27300	38.57	139100	1.85		
45.0	23500	33.23	137100	2.10		
53.0	19700	27.92	134100	2.50		
29.0	36600	51.77	105400	0.85	GK 167 GKH 167	Y..315S-4 - AD8
35.0	30300	42.89	107500	1.05		
41.0	25900	36.61	108100	1.25		
46.0	22800	32.25	107900	1.40		
52.0	20300	28.77	107400	1.55		
60.0	17300	24.52	106100	1.85		
73.0	14300	20.32	104000	2.20		
86.0	12200	17.34	101800	2.60		
62.0	16900	23.95	50800	1.05		
70.0	15000	21.31	51800	1.20		
81.0	13000	18.37	52700	1.40		
99.0	10500	14.92	53100	1.70		
117	8960	12.65	53000	1.90		
P ₁ =132kw						
20.0	62700	73.96	123300	0.80	GK 187 GKH 187	Y..315M-4 - AD8
23.0	54300	64.04	127000	0.90		
28.0	45200	53.36	129800	1.10		
33.0	38600	45.5	130800	1.30	GK 187 GKH 187	Y..315M-4 - AD8
35.0	36000	42.51	130900	1.40		
38.0	32700	38.57	130700	1.55		
45.0	28200	33.23	129800	1.75		
53.0	23700	27.92	127900	2.10		
61.0	20500	24.18	125900	2.30		
74.0	17100	20.15	122800	2.60		
86.0	14500	17.18	119700	2.80		
35.0	36400	42.89	96400	0.90		
41.0	31000	36.61	98600	1.05		
46.0	27300	32.25	99600	1.15		
52.0	24400	28.77	99900	1.30		
61.0	20800	24.52	99800	1.55		
73.0	17200	20.32	98700	1.85		
86.0	14700	17.34	97300	2.20		

n_2 [1/min]	M_2 [Nm]	i	F_r [N]	K	Frame size	Input Configuration
P ₁ =132kw						
62.0	20300	23.95	43400	0.90	GK 157 GKF 157 GKA 157 GKAF157	Y..315M-4 - AD8
70.0	18000	21.31	45300	1.00		
81.0	15500	18.37	47000	1.15		
100	12600	14.92	48500	1.40		
117	10700	12.65	49100	1.60		
P ₁ =160kw						
28.0	54900	53.36	114900	0.90	GK 187 GKH 187	Y..315L ₁ -4 - AD8
33.0	46800	45.50	118100	1.05		
45.0	34200	33.23	120500	1.45	GK 187 GKH 187	Y..315L ₁ -4 - AD8
53.0	28700	27.92	120100	1.75		
61.0	24800	24.18	119100	1.90		
74.0	20700	20.15	117200	2.10		
86.0	17600	17.18	114900	2.30		
41.0	37600	36.61	86500	0.85	GK 167 GKH 167	Y..315L ₁ -4 - AD8
61.0	25200	24.52	91700	1.25		
73.0	20900	20.32	92000	1.55		
86.0	17800	17.34	91600	1.80		
81.0	18900	18.37	39800	0.95	GK 157 GKF 157 GKA 157 GKAF157	Y..315M-4 - AD8
99.0	15300	14.92	42600	1.15		
117	13000	12.65	44100	1.30		
P ₁ =200kw						
33.0	58600	45.50	100000	0.85	GK 187 GKH 187	Y..315L ₂ -4 - AD8
45.0	42800	33.23	107300	1.15		
53.0	35900	27.92	109000	1.40		
61.0	31100	24.18	109500	1.55		
74.0	25900	20.15	109200	1.70		
86.0	22100	17.18	108100	1.85		
60.0	31600	24.52	80100	1.00	GK 167 GKH 167	Y..315L ₂ -4 - AD8
73.0	26100	20.32	82400	1.20		
85.0	22300	17.34	83400	1.45		
99.0	19200	14.92	34200	0.95	GK 157 GKF 157 GKA 157 GKAF157	Y..315L ₂ -4 - AD8
117	16300	12.65	36900	1.05		

4.8 GK../GRF..性能参数 / GK../GRF.. Performance Parameters

n_2 [1/min]	i	Fr [N]	Frame size	Motor
$M_{2max}=200Nm$				
0.20	6832	5640		
0.23	5922	5640		
0.25	5491	5640		
0.29	4759	5640		
0.33	4160	5640		
0.38	3645	5640		
0.43	3205	5640		
0.49	2801	5640		
0.56	2454	5640		
0.64	2166	5640		
0.73	1891	5640		
0.83	1660	5640	GK 37 GRF17	Y..63M ₁ -4
0.94	1466	5640	GKF 37 GRF17	Y..63M ₁ -4
1.10	1288	5640	GKA 37 GRF17	Y..63M ₁ -4
1.20	1136	5640	GKAF 37 GRF17	Y..63M ₁ -4
1.40	996	5640		
1.60	876	5640		
1.80	761	5640		
2.10	671	5640		
2.40	585	5640		
2.70	512	5640		
3.10	451	5640		
3.50	396	5640		
4.00	346	5640		
4.50	304	5640		
4.90	267	5640	GK 37 GRF17	Y..63M ₂ -4
5.60	234	5640	GKF 37 GRF17	Y..63M ₂ -4
6.40	205	5640	GKA 37 GRF17	Y..63M ₂ -4
7.30	181	5640	GKAF 37 GRF17	Y..63M ₂ -4
8.10	160	5640	GK 37 GRF17	Y..71M ₁ -4
9.50	136	5640	GKF 37 GRF17	Y..71M ₁ -4
10.0	127	5640	GKA 37 GRF17	Y..71M ₁ -4
			GKAF 37 GRF17	Y..71M ₁ -4
12.0	110	5640	GK 37 GRF17	Y..71M ₂ -4
14.0	96	5640	GKF 37 GRF17	Y..71M ₂ -4
			GKA 37 GRF17	Y..71M ₂ -4
			GKAF 37 GRF17	Y..71M ₂ -4
$M_{2max}=400Nm$				
0.14	10138	5920		
0.16	8534	5920		
0.18	7662	5920		
0.20	6826	5920		
0.23	5983	5920		
0.27	5159	5920	GK 47 GRF37	Y..63M ₁ -4
0.30	4601	5920	GKF 47 GRF37	Y..63M ₁ -4
0.35	3940	5920	GKA 47 GRF37	Y..63M ₁ -4
0.40	3477	5920	GKAF 47 GRF37	Y..63M ₁ -4
0.45	3043	5920		
0.51	2733	5920		
0.59	2354	5920		
0.67	2063	5920		
0.76	1819	5920		

n_2 [1/min]	i	Fr [N]	Frame size		Motor
M_{max}=400Nm					
0.87	1586	5920			
0.99	1388	5920			
1.10	1222	5920	GK	47 GRF37	Y..63M ₁ -4
1.30	1097	5920	GKF	47 GRF37	Y..63M ₁ -4
1.50	945	5920	GKA	47 GRF37	Y..63M ₁ -4
1.70	831	5920	GKAF	47 GRF37	Y..63M ₁ -4
1.90	718	5920			
2.20	639	5920			
2.40	552	5920	GK	47 GRF37	Y..63M ₂ -4
2.70	495	5920	GKF	47 GRF37	Y..63M ₂ -4
3.10	426	5920	GKA	47 GRF37	Y..63M ₂ -4
3.50	375	5920	GKAF	47 GRF37	Y..63M ₂ -4
4.00	327	5920	GK	47 GRF37	Y..71M ₁ -4
4.50	289	5920	GKF	47 GRF37	Y..71M ₁ -4
5.10	256	5920	GKA	47 GRF37	Y..71M ₁ -4
			GKAF	47 GRF37	Y..71M ₁ -4
6.20	225	5920	GK	47 GRF37	Y..71M ₂ -4
7.00	198	5920	GKF	47 GRF37	Y..71M ₂ -4
			GKA	47 GRF37	Y..71M ₂ -4
			GKAF	47 GRF37	Y..71M ₂ -4
8.10	171	5920	GK	47 GRF37	Y..80M ₁ -4
9.00	153	5920	GKF	47 GRF37	Y..80M ₁ -4
			GKA	47 GRF37	Y..80M ₁ -4
11.00	131	5920	GKAF	47 GRF37	Y..80M ₁ -4
M_{2max}=600Nm					
0.11	12169	7630			
0.12	11162	7630			
0.15	9503	7630			
0.16	8547	7630			
0.19	7277	7630			
0.21	6478	7630			
0.24	5662	7630			
0.27	5033	7630			
0.32	4340	7630			
0.36	3854	7630	GK	57 GRF37	Y..63M ₁ -4
0.41	3390	7630	GKF	57 GRF37	Y..63M ₁ -4
0.47	2924	7630	GKA	57 GRF37	Y..63M ₁ -4
0.53	2593	7630	GKAF	57 GRF37	Y..63M ₁ -4
0.61	2249	7630			
0.70	1986	7630			
0.79	1743	7630			
0.90	1539	7630			
1.00	1354	7630			
1.20	1174	7630			
1.30	1036	7630			
1.50	906	7630			
1.60	806	7630	GK	57 GRF37	Y..63M ₂ -4
1.90	699	7630	GKF	57 GRF37	Y..63M ₂ -4
2.20	615	7630	GKA	57 GRF37	Y..63M ₂ -4
			GKAF	57 GRF37	Y..63M ₂ -4



n_2 [1/min]	i	Fr [N]	Frame size	Motor
$M_{2max}=600Nm$				
2.40	544	7630	GK 57 GRF37	Y..71M ₁₋₄
2.80	473	7630	GKF 57 GRF37	Y..71M ₁₋₄
3.10	421	7630	GKA 57 GRF37	Y..71M ₁₋₄
			GKAF 57 GRF37	Y..71M ₁₋₄
3.80	362	7630	GK 57 GRF37	Y..71M ₂₋₄
4.30	319	7630	GKF 57 GRF37	Y..71M ₂₋₄
4.90	280	7630	GKA 57 GRF37	Y..71M ₂₋₄
			GKAF 57 GRF37	Y..71M ₂₋₄
5.60	246	7630	GK 57 GRF37	Y..80M ₁₋₄
6.40	215	7630	GKF 57 GRF37	Y..80M ₁₋₄
7.20	192	7630	GKA 57 GRF37	Y..80M ₁₋₄
			GKAF 57 GRF37	Y..80M ₁₋₄
8.60	166	7630	GK 57 GRF37	Y..80M ₂₋₄
9.90	145	7630	GKF 57 GRF37	Y..80M ₂₋₄
			GKA 57 GRF37	Y..80M ₂₋₄
			GKAF 57 GRF37	Y..80M ₂₋₄
11.0	129	7630	GK 57 GRF37	Y..90S-4
13.0	111	7630	GKF 57 GRF37	Y..90S-4
15.0	97	7630	GKA 57 GRF37	Y..90S-4
			GKAF 57 GRF37	Y..90S-4
$M_{2max}=820Nm$				
0.11	12139	10300		
0.12	11134	10300		
0.15	9479	10300		
0.17	8173	10300		
0.19	7259	10300		
0.21	6462	10300	GK 67 GRF37	Y..63M ₁₋₄
0.24	5648	10300	GKF 67 GRF37	Y..63M ₁₋₄
0.28	4846	10300	GKA 67 GRF37	Y..63M ₁₋₄
0.32	4329	10300	GKAF 67 GRF37	Y..63M ₁₋₄
0.37	3750	10300		
0.42	3315	10300		
0.47	2917	10300		
0.55	2532	10300		
0.62	2244	10300		
0.70	1981	10300		
0.79	1739	10300	GK 67 GRF37	Y..63M ₂₋₄
0.90	1535	10300	GKF 67 GRF37	Y..63M ₂₋₄
1.00	1351	10300	GKA 67 GRF37	Y..63M ₂₋₄
1.20	1171	10300	GKAF 67 GRF37	Y..63M ₂₋₄
1.30	1034	10300	GK 67 GRF37	Y..63M ₃₋₄
1.50	903	10300	GKF 67 GRF37	Y..63M ₃₋₄
1.70	793	10300	GKA 67 GRF37	Y..63M ₃₋₄
			GKAF 67 GRF37	Y..63M ₃₋₄
1.90	697	10300	GK 67 GRF37	Y..71M ₁₋₄
2.10	613	10300	GKF 67 GRF37	Y..71M ₁₋₄
2.40	542	10300	GKA 67 GRF37	Y..71M ₁₋₄
			GKAF 67 GRF37	Y..71M ₁₋₄

n_2 [1/min]	i	Fr [N]	Frame size	Motor
$M_{2max}=820Nm$				
2.90	471	10300	GK 67 GRF37	Y..71M ₂₋₄
3.30	420	10300	GKF 67 GRF37	Y..71M ₂₋₄
3.80	361	10300	GKA 67 GRF37	Y..71M ₂₋₄
			GKAF 67 GRF37	Y..71M ₂₋₄
4.30	323	10300	GK 67 GRF37	Y..80M ₁₋₄
5.00	279	10300	GKF 67 GRF37	Y..80M ₁₋₄
5.60	246	10300	GKA 67 GRF37	Y..80M ₁₋₄
			GKAF 67 GRF37	Y..80M ₁₋₄
6.60	217	10300	GK 67 GRF37	Y..80M ₂₋₄
7.50	191	10300	GKF 67 GRF37	Y..80M ₂₋₄
			GKA 67 GRF37	Y..80M ₂₋₄
			GKAF 67 GRF37	Y..80M ₂₋₄
$M_{2max}=1550Nm$				
0.09	15310	15400		
0.10	14043	15400		
0.12	11955	15400		
0.14	10217	15400	GK 77 GRF37	Y..63M ₁₋₄
0.16	8809	15400	GKF 77 GRF37	Y..63M ₁₋₄
0.18	7528	15400	GKA 77 GRF37	Y..63M ₁₋₄
0.21	6606	15400	GKAF 77 GRF37	Y..63M ₁₋₄
0.24	5774	15400		
0.27	5089	15400		
0.31	4489	15400	GK 77 GRF37	Y..63M ₂₋₄
0.35	3961	15400	GKF 77 GRF37	Y..63M ₂₋₄
0.40	3485	15400	GKA 77 GRF37	Y..63M ₂₋₄
0.48	2901	15400	GKAF 77 GRF37	Y..63M ₂₋₄
0.51	2717	15400		
0.56	2370	15400	GK 77 GRF37	Y..63M ₃₋₄
0.64	2050	15400	GKF 77 GRF37	Y..63M ₃₋₄
0.75	1772	15400	GKA 77 GRF37	Y..63M ₃₋₄
0.87	1514	15400	GKAF 77 GRF37	Y..63M ₃₋₄
0.95	1388	15400		
1.10	1218	15400	GK 77 GRF37	Y..71M ₁₋₄
1.20	1053	15400	GKF 77 GRF37	Y..71M ₁₋₄
			GKA 77 GRF37	Y..71M ₁₋₄
			GKAF 77 GRF37	Y..71M ₁₋₄
1.50	924	15400	GK 77 GRF37	Y..71M ₂₋₄
1.70	815	15400	GKF 77 GRF37	Y..71M ₂₋₄
2.00	709	15400	GKA 77 GRF37	Y..71M ₂₋₄
			GKAF 77 GRF37	Y..71M ₂₋₄
2.20	622	15400	GK 77 GRF37	Y..80M ₁₋₄
2.50	552	15400	GKF 77 GRF37	Y..80M ₁₋₄
2.80	485	15400	GKA 77 GRF37	Y..80M ₁₋₄
			GKAF 77 GRF37	Y..80M ₁₋₄
3.40	428	15400	GK 77 GRF37	Y..80M ₂₋₄
3.90	367	15400	GKF 77 GRF37	Y..80M ₂₋₄
			GKA 77 GRF37	Y..80M ₂₋₄
			GKAF 77 GRF37	Y..80M ₂₋₄

n_2 [1/min]	i	Fr [N]	Frame size	Motor
$M_{2max}=2700Nm$				
4.30	328	15400	GK 77 GRF37	Y..90S-4
4.90	290	15400	GKF 77 GRF37	Y..90S-4
5.60	252	15400	GKA 77 GRF37	Y..90S-4
			GKAF 77 GRF37	Y..90S-4
0.09	14829	27300		
0.10	13168	27300		
0.12	11737	27300		
0.14	10217	27300	GK 87 GRF57	Y..63M ₁ -4
0.15	9073	27300	GKF 87 GRF57	Y..63M ₁ -4
0.18	7854	27300	GKA 87 GRF57	Y..63M ₁ -4
0.20	6832	27300	GKAF 87 GRF57	Y..63M ₁ -4
0.23	5930	27300		
0.26	5240	27300		
0.30	4562	27300		
0.33	4037	27300	GK 87 GRF57	Y..63M ₂ -4
0.37	3609	27300	GKF 87 GRF57	Y..63M ₂ -4
0.42	3107	27300	GKA 87 GRF57	Y..63M ₂ -4
0.48	2728	27300	GKAF 87 GRF57	Y..63M ₂ -4
0.55	2371	27300	GK 87 GRF57	Y..71M ₁ -4
0.62	2088	27300	GKF 87 GRF57	Y..71M ₁ -4
0.70	1854	27300	GKA 87 GRF57	Y..71M ₁ -4
			GKAF 87 GRF57	Y..71M ₁ -4
0.83	1657	27300	GK 87 GRF57	Y..71M ₂ -4
0.97	1415	27300	GKF 87 GRF57	Y..71M ₂ -4
1.10	1229	27300	GKA 87 GRF57	Y..71M ₂ -4
			GKAF 87 GRF57	Y..71M ₂ -4
1.30	1078	27300	GK 87 GRF57	Y..80M ₁ -4
1.40	951	27300	GKF 87 GRF57	Y..80M ₁ -4
1.60	837	27300	GKA 87 GRF57	Y..80M ₁ -4
			GKAF 87 GRF57	Y..80M ₁ -4
2.00	726	27300	GK 87 GRF57	Y..80M ₂ -4
2.20	638	27300	GKF 87 GRF57	Y..80M ₂ -4
			GKA 87 GRF57	Y..80M ₂ -4
			GKAF 87 GRF57	Y..80M ₂ -4
2.50	562	27300	GK 87 GRF57	Y..90S-4
3.00	474	27300	GKF 87 GRF57	Y..90S-4
3.30	426	27300	GKA 87 GRF57	Y..90S-4
			GKAF 87 GRF57	Y..90S-4
3.80	373	27300	GK 87 GRF57	Y..90L-4
4.30	330	27300	GKF 87 GRF57	Y..90L-4
4.90	294	27300	GKA 87 GRF57	Y..90L-4
			GKAF 87 GRF57	Y..90L-4
5.70	250	27300	GK 87 GRF57	Y..100L ₁ -4
6.00	236	27300	GKF 87 GRF57	Y..100L ₁ -4
7.10	201	27300	GKA 87 GRF57	Y..100L ₁ -4
			GKAF 87 GRF57	Y..100L ₁ -4

n_2 [1/min]	i	Fr [N]	Frame size	Motor
$M_{2max}=4300Nm$				
0.08	18091	40000		
0.08	16666	40000	GK 97 GRF57	Y..63M ₁ -4
0.09	14897	40000	GKF 97 GRF57	Y..63M ₁ -4
0.10	13182	40000	GKA 97 GRF57	Y..63M ₁ -4
0.12	11677	40000	GKAF 97 GRF57	Y..63M ₁ -4
0.13	10317	40000	GK 97 GRF57	Y..63M ₁ -4
0.15	9083	40000	GKF 97 GRF57	Y..63M ₁ -4
0.17	8054	40000	GKA 97 GRF57	Y..63M ₁ -4
0.20	6970	40000	GKAF 97 GRF57	Y..63M ₁ -4
0.22	6027	40000	GK 97 GRF57	Y..63M ₂ -4
0.24	5391	40000	GKF 97 GRF57	Y..63M ₂ -4
0.28	4669	40000	GKA 97 GRF57	Y..63M ₂ -4
0.32	4082	40000	GKAF 97 GRF57	Y..63M ₂ -4
0.36	3583	40000	GK 97 GRF57	Y..71M ₁ -4
0.42	3108	40000	GKF 97 GRF57	Y..71M ₁ -4
0.47	2757	40000	GKA 97 GRF57	Y..71M ₁ -4
			GKAF 97 GRF57	Y..71M ₁ -4
0.57	2419	40000	GK 97 GRF57	Y..71M ₂ -4
0.65	2123	40000	GKF 97 GRF57	Y..71M ₂ -4
			GKA 97 GRF57	Y..71M ₂ -4
			GKAF 97 GRF57	Y..71M ₂ -4
0.74	1856	40000	GK 97 GRF57	Y..80M ₁ -4
0.85	1625	40000	GKF 97 GRF57	Y..80M ₁ -4
0.96	1430	40000	GKA 97 GRF57	Y..80M ₁ -4
1.10	1261	40000	GKAF 97 GRF57	Y..80M ₁ -4
1.30	1102	40000	GK 97 GRF57	Y..80M ₂ -4
1.50	957	40000	GKF 97 GRF57	Y..80M ₂ -4
			GKA 97 GRF57	Y..80M ₂ -4
			GKAF 97 GRF57	Y..80M ₂ -4
1.70	855	40000	GK 97 GRF57	Y..90S-4
1.90	743	40000	GKF 97 GRF57	Y..90S-4
2.20	652	40000	GKA 97 GRF57	Y..90S-4
			GKAF 97 GRF57	Y..90S-4
2.50	573	40000	GK 97 GRF57	Y..90L-4
2.80	504	40000	GKF 97 GRF57	Y..90L-4
			GKA 97 GRF57	Y..90L-4
			GKAF 97 GRF57	Y..90L-4
3.30	437	40000	GK 97 GRF57	Y..100L ₁ -4
3.70	382	40000	GKF 97 GRF57	Y..100L ₁ -4
4.20	342	40000	GKA 97 GRF57	Y..100L ₁ -4
			GKAF 97 GRF57	Y..100L ₁ -4
4.80	305	40000	GK 97 GRF57	Y..100L ₂ -4
5.60	258	40000	GKF 97 GRF57	Y..100L ₂ -4
			GKA 97 GRF57	Y..100L ₂ -4
			GKAF 97 GRF57	Y..100L ₂ -4
6.30	232	40000	GK 97 GRF57	Y..112M-4
7.30	199	40000	GKF 97 GRF57	Y..112M-4
			GKA 97 GRF57	Y..112M-4
			GKAF 97 GRF57	Y..112M-4



n_2 [1/min]	i	Fr [N]	Frame size	Motor
M_{max} = 8000Nm				
0.10	14311	65000	GK 107 GRF77	Y..63M ₁₋₄
			GKF 107 GRF77	Y..63M ₁₋₄
			GKA 107 GRF77	Y..63M ₁₋₄
			GKAF107 GRF77	Y..63M ₁₋₄
0.11	12211	65000	GK 107 GRF77	Y..63M ₁₋₄
0.12	10677	65000	GKF 107 GRF77	Y..63M ₁₋₄
0.14	9524	65000	GKA 107 GRF77	Y..63M ₁₋₄
0.16	8328	65000	GKAF107 GRF77	Y..63M ₁₋₄
0.18	7270	65000	GK 107 GRF77	Y..71M ₁₋₄
			GKF 107 GRF77	Y..71M ₁₋₄
			GKA 107 GRF77	Y..71M ₁₋₄
			GKAF107 GRF77	Y..71M ₁₋₄
0.21	6184	65000	GK 107 GRF77	Y..71M ₁₋₄
			GKF 107 GRF77	Y..71M ₁₋₄
			GKA 107 GRF77	Y..71M ₁₋₄
			GKAF107 GRF77	Y..71M ₁₋₄
0.23	5662	65000	GK 107 GRF77	Y..71M ₁₋₄
			GKF 107 GRF77	Y..71M ₁₋₄
			GKA 107 GRF77	Y..71M ₁₋₄
			GKAF107 GRF77	Y..71M ₁₋₄
0.27	5138	65000	GK 107 GRF77	Y..71M ₁₋₄
			GKF 107 GRF77	Y..71M ₁₋₄
			GKA 107 GRF77	Y..71M ₁₋₄
			GKAF107 GRF77	Y..71M ₁₋₄
0.32	4359	65000	GK 107 GRF77	Y..71M ₁₋₄
			GKF 107 GRF77	Y..71M ₁₋₄
			GKA 107 GRF77	Y..71M ₁₋₄
			GKAF107 GRF77	Y..71M ₁₋₄
0.36	3810	65000	GK 107 GRF77	Y..71M ₁₋₄
			GKF 107 GRF77	Y..71M ₁₋₄
			GKA 107 GRF77	Y..71M ₁₋₄
			GKAF107 GRF77	Y..71M ₁₋₄
0.41	3358	65000	GK 107 GRF77	Y..80M ₁₋₄
			GKF 107 GRF77	Y..80M ₁₋₄
			GKA 107 GRF77	Y..80M ₁₋₄
			GKAF107 GRF77	Y..80M ₁₋₄
0.46	2977	65000	GK 107 GRF77	Y..80M ₁₋₄
			GKF 107 GRF77	Y..80M ₁₋₄
			GKA 107 GRF77	Y..80M ₁₋₄
			GKAF107 GRF77	Y..80M ₁₋₄
0.53	2599	65000	GK 107 GRF77	Y..80M ₁₋₄
			GKF 107 GRF77	Y..80M ₁₋₄
			GKA 107 GRF77	Y..80M ₁₋₄
			GKAF107 GRF77	Y..80M ₁₋₄
0.63	2286	65000	GK 107 GRF77	Y..80M ₁₋₄
			GKF 107 GRF77	Y..80M ₁₋₄
			GKA 107 GRF77	Y..80M ₁₋₄
			GKAF107 GRF77	Y..80M ₁₋₄
0.74	1939	65000	GK 107 GRF77	Y..80M ₁₋₄
			GKF 107 GRF77	Y..80M ₁₋₄
			GKA 107 GRF77	Y..80M ₁₋₄
			GKAF107 GRF77	Y..80M ₁₋₄
0.83	1713	65000	GK 107 GRF77	Y..90S-4
			GKF 107 GRF77	Y..90S-4
			GKA 107 GRF77	Y..90S-4
			GKAF107 GRF77	Y..90S-4
0.91	1554	65000	GK 107 GRF77	Y..90S-4
			GKF 107 GRF77	Y..90S-4
			GKA 107 GRF77	Y..90S-4
			GKAF107 GRF77	Y..90S-4
1.10	1336	65000	GK 107 GRF77	Y..90S-4
			GKF 107 GRF77	Y..90S-4
			GKA 107 GRF77	Y..90S-4
			GKAF107 GRF77	Y..90S-4
1.20	1166	65000	GK 107 GRF77	Y..90L-4
			GKF 107 GRF77	Y..90L-4
			GKA 107 GRF77	Y..90L-4
			GKAF107 GRF77	Y..90L-4
1.40	1030	65000	GK 107 GRF77	Y..90L-4
			GKF 107 GRF77	Y..90L-4
			GKA 107 GRF77	Y..90L-4
			GKAF107 GRF77	Y..90L-4
1.60	904	65000	GK 107 GRF77	Y..90L-4
			GKF 107 GRF77	Y..90L-4
			GKA 107 GRF77	Y..90L-4
			GKAF107 GRF77	Y..90L-4
1.80	793	65000	GK 107 GRF77	Y..100L ₁₋₄
			GKF 107 GRF77	Y..100L ₁₋₄
			GKA 107 GRF77	Y..100L ₁₋₄
			GKAF107 GRF77	Y..100L ₁₋₄
2.00	696	65000	GK 107 GRF77	Y..100L ₁₋₄
			GKF 107 GRF77	Y..100L ₁₋₄
			GKA 107 GRF77	Y..100L ₁₋₄
			GKAF107 GRF77	Y..100L ₁₋₄
2.30	615	65000	GK 107 GRF77	Y..100L ₁₋₄
			GKF 107 GRF77	Y..100L ₁₋₄
			GKA 107 GRF77	Y..100L ₁₋₄
			GKAF107 GRF77	Y..100L ₁₋₄
2.80	522	65000	GK 107 GRF77	Y..100L ₂₋₄
			GKF 107 GRF77	Y..100L ₂₋₄
			GKA 107 GRF77	Y..100L ₂₋₄
			GKAF107 GRF77	Y..100L ₂₋₄
3.20	461	65000	GK 107 GRF77	Y..100L ₂₋₄
			GKF 107 GRF77	Y..100L ₂₋₄
			GKA 107 GRF77	Y..100L ₂₋₄
			GKAF107 GRF77	Y..100L ₂₋₄
3.60	408	65000	GK 107 GRF77	Y..112M-4
			GKF 107 GRF77	Y..112M-4
			GKA 107 GRF77	Y..112M-4
			GKAF107 GRF77	Y..112M-4
4.00	364	65000	GK 107 GRF77	Y..112M-4
			GKF 107 GRF77	Y..112M-4
			GKA 107 GRF77	Y..112M-4
			GKAF107 GRF77	Y..112M-4
4.60	318	65000	GK 107 GRF77	Y..132S-4
			GKF 107 GRF77	Y..132S-4
			GKA 107 GRF77	Y..132S-4
			GKAF107 GRF77	Y..132S-4
5.10	286	65000	GK 107 GRF77	Y..132S-4
			GKF 107 GRF77	Y..132S-4
			GKA 107 GRF77	Y..132S-4
			GKAF107 GRF77	Y..132S-4
5.80	251	65000	GK 107 GRF77	Y..132S-4
			GKF 107 GRF77	Y..132S-4
			GKA 107 GRF77	Y..132S-4
			GKAF107 GRF77	Y..132S-4

n ₂ [1/min]	i	Fr [N]	Frame size		Motor
M _{max} =13000Nm					
0.08	17550	79200	GK	127 GRF77	Y..63M ₁₋₄
0.08	16006	79200	GKF	127 GRF77	Y..63M ₁₋₄
0.09	14975	79200	GKA	127 GRF77	Y..63M ₁₋₄
0.11	12440	79200	GKAF	127 GRF77	Y..63M ₁₋₄
0.12	10915	79200	GK	127 GRF77	Y..71M ₁₋₄
0.13	9819	79200	GKF	127 GRF77	Y..71M ₁₋₄
0.15	8443	79200	GKA	127 GRF77	Y..71M ₁₋₄
			GKAF	127 GRF77	Y..71M ₁₋₄
0.18	7482	79200	GK	127 GRF77	Y..71M ₁₋₄
0.21	6565	79200	GKF	127 GRF77	Y..71M ₁₋₄
			GKA	127 GRF77	Y..71M ₁₋₄
			GKAF	127 GRF77	Y..71M ₁₋₄
0.24	5804	79200	GK	127 GRF77	Y..80M ₁₋₄
0.27	5027	79200	GKF	127 GRF77	Y..80M ₁₋₄
0.31	4423	79200	GKA	127 GRF77	Y..80M ₁₋₄
			GKAF	127 GRF77	Y..80M ₁₋₄
0.37	3889	79200	GK	127 GRF77	Y..80M ₁₋₄
0.43	3311	79200	GKF	127 GRF77	Y..80M ₁₋₄
0.48	3009	79200	GKA	127 GRF77	Y..80M ₁₋₄
			GKAF	127 GRF77	Y..80M ₁₋₄
0.54	2607	79200	GK	127 GRF77	Y..90S-4
0.63	2268	79200	GKF	127 GRF77	Y..90S-4
			GKA	127 GRF77	Y..90S-4
			GKAF	127 GRF77	Y..90S-4
0.74	1926	79200	GK	127 GRF77	Y..90L-4
0.81	1757	79200	GKF	127 GRF77	Y..90L-4
0.93	1541	79200	GKA	127 GRF77	Y..90L-4
			GKAF	127 GRF77	Y..90L-4
1.10	1342	79200	GK	127 GRF77	Y..100L ₁₋₄
1.20	1177	79200	GKF	127 GRF77	Y..100L ₁₋₄
1.40	1025	79200	GKA	127 GRF77	Y..100L ₁₋₄
			GKAF	127 GRF77	Y..100L ₁₋₄
1.60	899	79200	GK	127 GRF77	Y..100L ₂₋₄
1.80	790	79200	GKF	127 GRF77	Y..100L ₂₋₄
			GKA	127 GRF77	Y..100L ₂₋₄
			GKAF	127 GRF77	Y..100L ₂₋₄
2.10	704	79200	GK	127 GRF77	Y..112M-4
2.40	610	79200	GKF	127 GRF77	Y..112M-4
2.70	549	79200	GKA	127 GRF77	Y..112M-4
			GKAF	127 GRF77	Y..112M-4
3.00	477	79200	GK	127 GRF77	Y..132S-4
3.50	418	79200	GKF	127 GRF77	Y..132S-4
			GKA	127 GRF77	Y..132S-4
			GKAF	127 GRF77	Y..132S-4
2.70	536	79200	GK	127 GRF77	Y..132S-4
3.10	473	79200	GKF	127 GRF77	Y..132S-4
3.50	418	79200	GKA	127 GRF77	Y..132S-4
			GKAF	127 GRF77	Y..132S-4

n_2 [1/min]	i	Fr [N]	Frame size	Motor
M_{2max}=13000Nm				
4.00	367	79200	GK 127 GRF87	Y..132M-4
4.40	330	79200	GKF 127 GRF87	Y..132M-4
			GKA 127 GRF87	Y..132M-4
			GKAF127 GRF87	Y..132M-4
M_{2max}=18000Nm				
0.08	17679	112200		
0.09	15729	112200		
0.09	14721	112200	GK 157 GRF97	Y..80M ₁ -4
0.11	13097	112200	GKF 157 GRF97	Y..80M ₁ -4
0.12	11368	112200	GKA 157 GRF97	Y..80M ₁ -4
0.14	10114	112200	GKAF157 GRF97	Y..80M ₁ -4
0.16	8718	112200		
0.18	7734	112200		
0.28	5074	112200	GK 157 GRF97	Y..80M ₂ -4
0.32	4514	112200	GKF 157 GRF97	Y..80M ₂ -4
			GKA 157 GRF97	Y..80M ₂ -4
			GKAF157 GRF97	Y..80M ₂ -4
0.36	3979	112200	GK 157 GRF97	Y..90S-4
0.40	3516	112200	GKF 157 GRF97	Y..90S-4
0.47	3051	112200	GKA 157 GRF97	Y..90S-4
			GKAF157 GRF97	Y..90S-4
0.55	2610	112200	GK 157 GRF97	Y..90L-4
0.62	2322	112200	GKF 157 GRF97	Y..90L-4
			GKA 157 GRF97	Y..90L-4
			GKAF157 GRF97	Y..90L-4
0.72	2029	112200	GK 157 GRF97	Y..100L ₁ -4
0.79	1805	112200	GKF 157 GRF97	Y..100L ₁ -4
0.86	1659	112200	GKA 157 GRF97	Y..100L ₁ -4
1.00	1365	112200	GKAF157 GRF97	Y..100L ₁ -4
1.20	1229	112200	GK 157 GRF97	Y..100L ₂ -4
1.30	1093	112200	GKF 157 GRF97	Y..100L ₂ -4
			GKA 157 GRF97	Y..100L ₂ -4
			GKAF157 GRF97	Y..100L ₂ -4
1.60	942	112200	GK 157 GRF97	Y..112M-4
1.70	854	112200	GKF 157 GRF97	Y..112M-4
			GKA 157 GRF97	Y..112M-4
			GKAF157 GRF97	Y..112M-4
1.90	756	112200	GK 157 GRF97	Y..132S-4
2.20	661	112200	GKF 157 GRF97	Y..132S-4
2.60	567	112200	GKA 157 GRF97	Y..132S-4
			GKAF157 GRF97	Y..132S-4
2.90	504	112200	GK 157 GRF97	Y..132M-4
3.40	434	112200	GKF 157 GRF97	Y..132M-4
			GKA 157 GRF97	Y..132M-4
			GKAF157 GRF97	Y..132M-4
5.10	291	112200	GK 157 GRF97	Y..160M-4
4.50	325	112200	GKF 157 GRF97	Y..160M-4
4.90	299	112200	GKA 157 GRF97	Y..160M-4
			GKAF157 GRF97	Y..160M-4

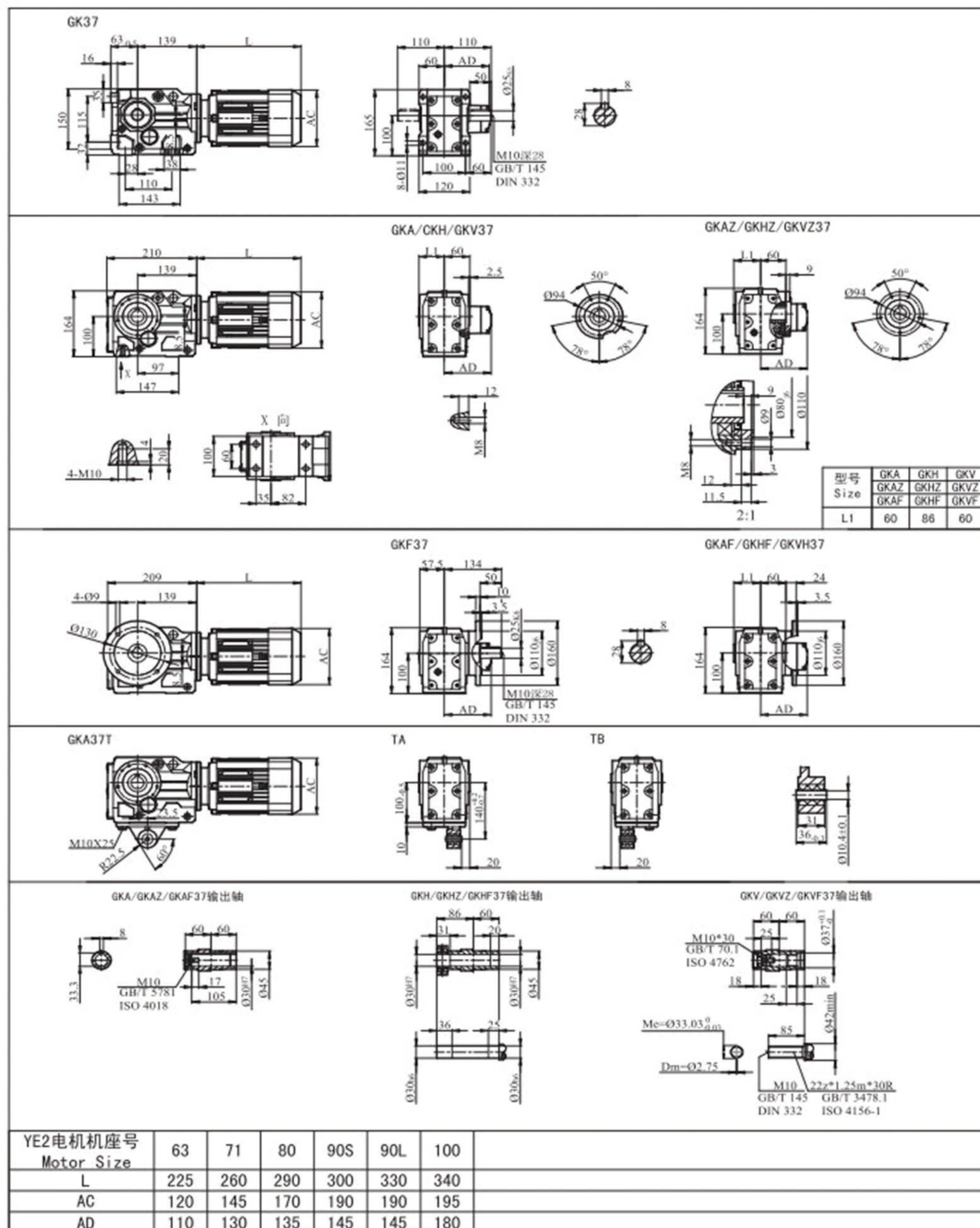
n_2 [1/min]	i	Fr [N]	Frame size	Motor
M_{2max}=18000Nm				
5.80	253	112200	GK 157 GRF97	Y..160L-4
6.40	230	112200	GKF 157 GRF97	Y..160L-4
6.90	213	112200	GKA 157 GRF97	Y..160L-4
			GKAF157 GRF97	Y..160L-4
M_{2max}=32000Nm				
0.07	19723	150000		
0.08	17406	150000		Y..80M ₁ -4
0.09	15000	150000	GK 167 GRF97	Y..80M ₁ -4
0.10	13238	150000	GKH 167 GRF97	Y..80M ₁ -4
0.12	11573	150000		Y..80M ₁ -4
0.13	10264	150000		
0.17	8628	150000	GK 167 GRF97	Y..80M ₂ -4
			GKH 167 GRF97	Y..80M ₂ -4
				Y..80M ₂ -4
0.22	6562	150000	GK 167 GRF97	Y..90S-4
0.27	5355	150000	GKH 167 GRF97	Y..90S-4
0.30	4788	150000	GK 167 GRF97	Y..90L-4
0.35	4079	150000	GKH 167 GRF97	Y..90L-4
0.42	3376	150000	GK 167 GRF97	Y..100L ₁ -4
0.52	2755	150000	GKH 167 GRF97	Y..100L ₁ -4
0.64	2263	15000	GK 167 GRF97	Y..100L ₂ -4
0.67	2182	15000	GKH 167 GRF97	Y..100L ₂ -4
0.86	1704	15000	GK 167 GRF97	Y..112M-4
1.00	1408	15000	GKH 167 GRF97	Y..112M-4
1.10	1296	15000	GK 167 GRF97	Y..132S-4
1.30	1101	15000	GKH 167 GRF97	Y..132S-4
1.60	944	15000	GK 167 GRF97	Y..132M-4
1.70	843	15000	GKH 167 GRF97	Y..132M-4
1.90	757	15000		
2.60	561	15000	GK 167 GRF97	Y..160M-4
			GKH 167 GRF97	Y..160M-4
3.00	481	15000	GK 167 GRF97	Y..160L-4
3.50	423	15000	GKH 167 GRF97	Y..160L-4
4.00	369	15000		
4.60	318	15000	GK 167 GRF107	Y..180M-4
			GKH 167 GRF107	Y..180M-4
5.30	278	15000	GK 167 GRF107	Y..180L-4
6.00	244	15000	GKH 167 GRF107	Y..180L-4
6.90	213	15000	GK 167 GRF107	Y..200L-4
7.20	206	15000	GKH 167 GRF107	Y..200L-4
8.20	180	15000		



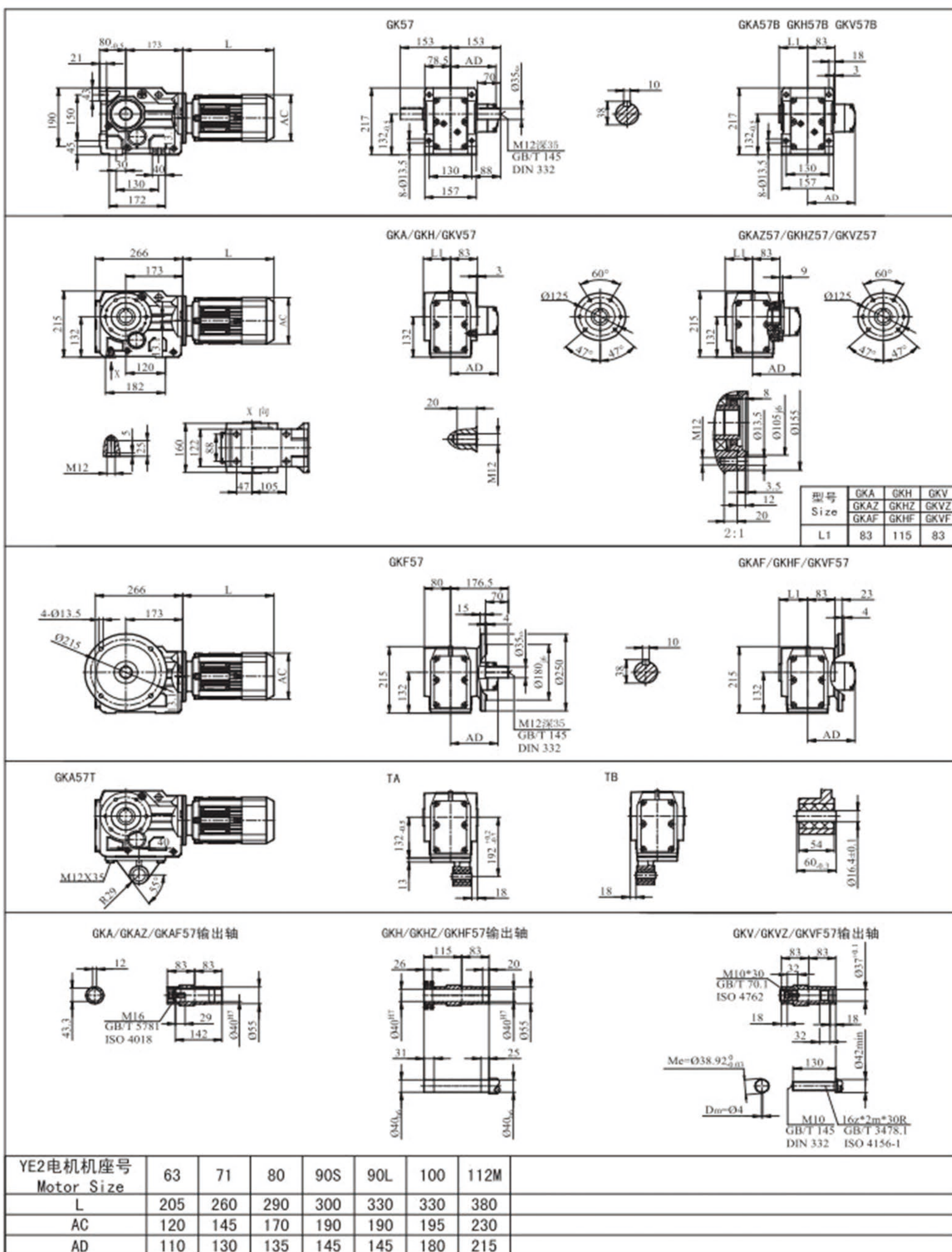
n_2 [1/min]	i	Fr [N]	Frame size	Motor
$M_{2max}=32000Nm$				
9.20	160	15000	GK 167 GRF107 GKH 167 GRF107	Y..225S-4 Y..225S-4
11.0	135	15000	GK 167 GRF107	Y..250M-4
12.0	118	15000	GKH 167 GRF107	Y..250M-4
$M_{2max}=50000Nm$				
0.04	32625	19000	GK 187 GRF97 GKH 187 GRF97	Y..80M ₁ -4 Y..80M ₁ -4
0.05	27165	19000		
0.06	24353	19000		
0.07	19144	19000		
0.08	16978	19000		
0.10	14272	19000	GK 187 GRF97	Y..80M ₂ -4
0.11	13116	19000	GKH 187 GRF97	Y..80M ₂ -4
0.12	11647	19000	GK 187 GRF97 GKH 187 GRF97	Y..90S-4 Y..90S-4
0.14	10413	19000		
0.15	9363	19000		
0.17	8126	19000		
0.19	7343	19000		
0.21	6747	19000	GK 187 GRF97	Y..90L-4
0.24	5991	19000	GKH 187 GRF97	Y..90L-4
0.27	5358	19000	GK 187 GRF97 GKH 187 GRF97	Y..100L ₁ -4 Y..100L ₁ -4
0.30	4817	19000		
0.33	4370	19000		
0.40	3609	19000	GK 187 GRF97	Y..100L ₂ -4
0.48	3062	19000	GKH 187 GRF97	Y..100L ₂ -4

n_2 [1/min]	i	Fr [N]	Frame size	Motor
$M_{2max}=50000Nm$				
0.58	2519	19000	GK 187 GRF97	Y..112M-4
0.64	2268	19000	GKH 187 GRF97	Y..112M-4
0.71	2054	19000	GK 187 GRF97 GKH 187 GRF97	Y..132S-4 Y..132S-4
0.80	1821	19000		
0.91	1605	19000		
1.00	1395	19000	GK 187 GRF97	Y..132M-4
1.20	1196	19000	GKH 187 GRF97	Y..132M-4
2.00	738	19000	GK 187 GRF97	Y..160L-4
2.40	621	19000	GKH 187 GRF97	Y..160L-4
2.80	527	19000	GK 187 GRF97 GKH 187 GRF97	Y..180M-4 Y..180M-4
1.80	835	19000	GK 187 GRF107 GKH 187 GRF107	Y..160M-4 Y..160M-4
2.00	729	19000	GK 187 GRF97	Y..160L-4
2.40	622	19000	GKH 187 GRF97	Y..160L-4
2.80	520	19000	GK 187 GRF97	Y..180M-4
3.20	454	19000	GKH 187 GRF97	Y..180M-4
4.20	355	19000	GK 187 GRF97 GKH 187 GRF97	Y..200L-4 Y..200L-4
5.70	261	19000	GK 187 GRF97 GKH 187 GRF97	Y..225S-4 Y..225S-4
6.70	221	19000	GK 187 GRF97	Y..225M-4
7.60	193	19000	GKH 187 GRF97	Y..225M-4

4.9 外形尺寸 / Dimensions









GK67

GKA67B GK67B GKV67B

GKA/GKH/GKV67

GKAZ/GKHZ/GKVZ67

型号	GKA	GKH	GKV
Size	GKAZ	GKHZ	GKVZ
	GKAF	GKHF	GKVF
L1	90	120	90

GKF67

GKAF/GKHF/GKVF67

GKA67T

TA

TB

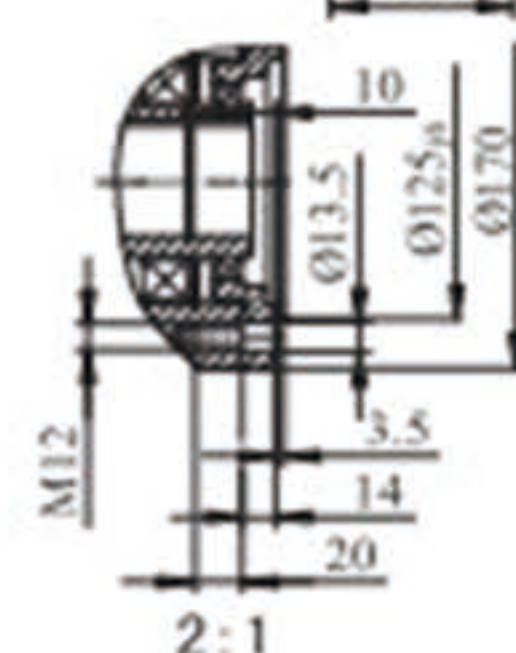
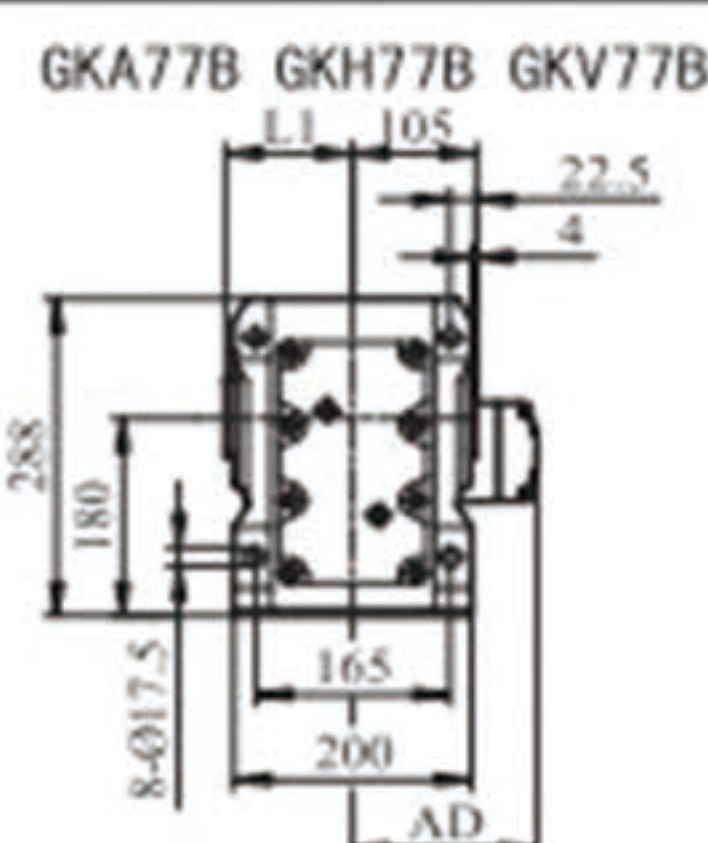
GKA/GKAZ/GKAF67输出轴

GKH/GKHZ/GKHF67输出轴

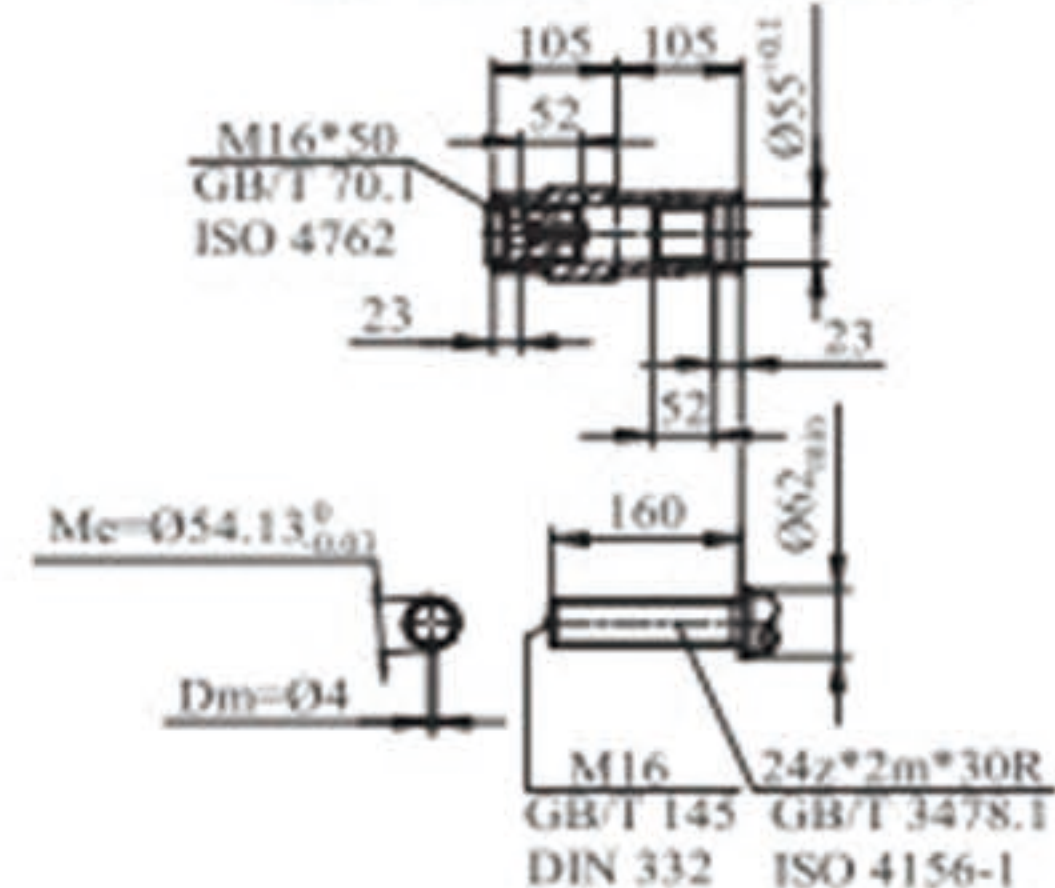
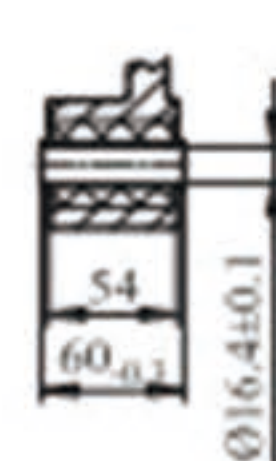
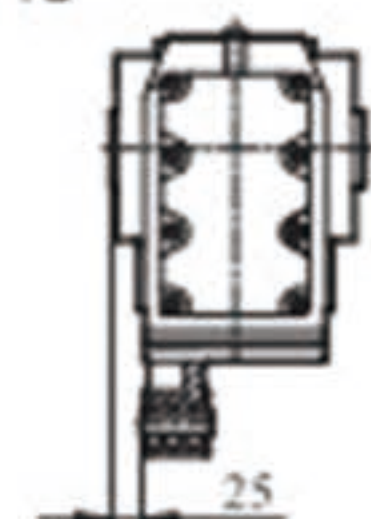
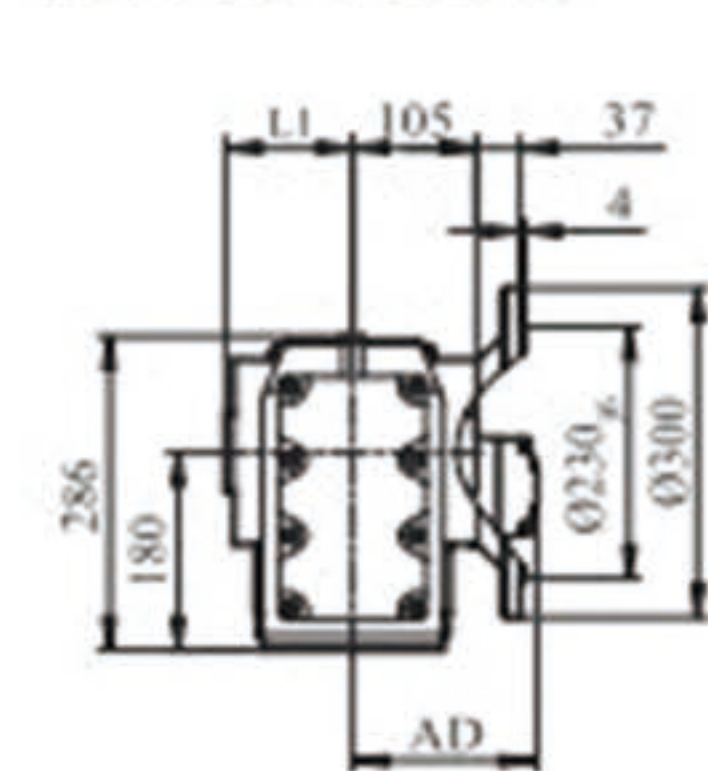
GKV/GKVZ/GKVF67输出轴

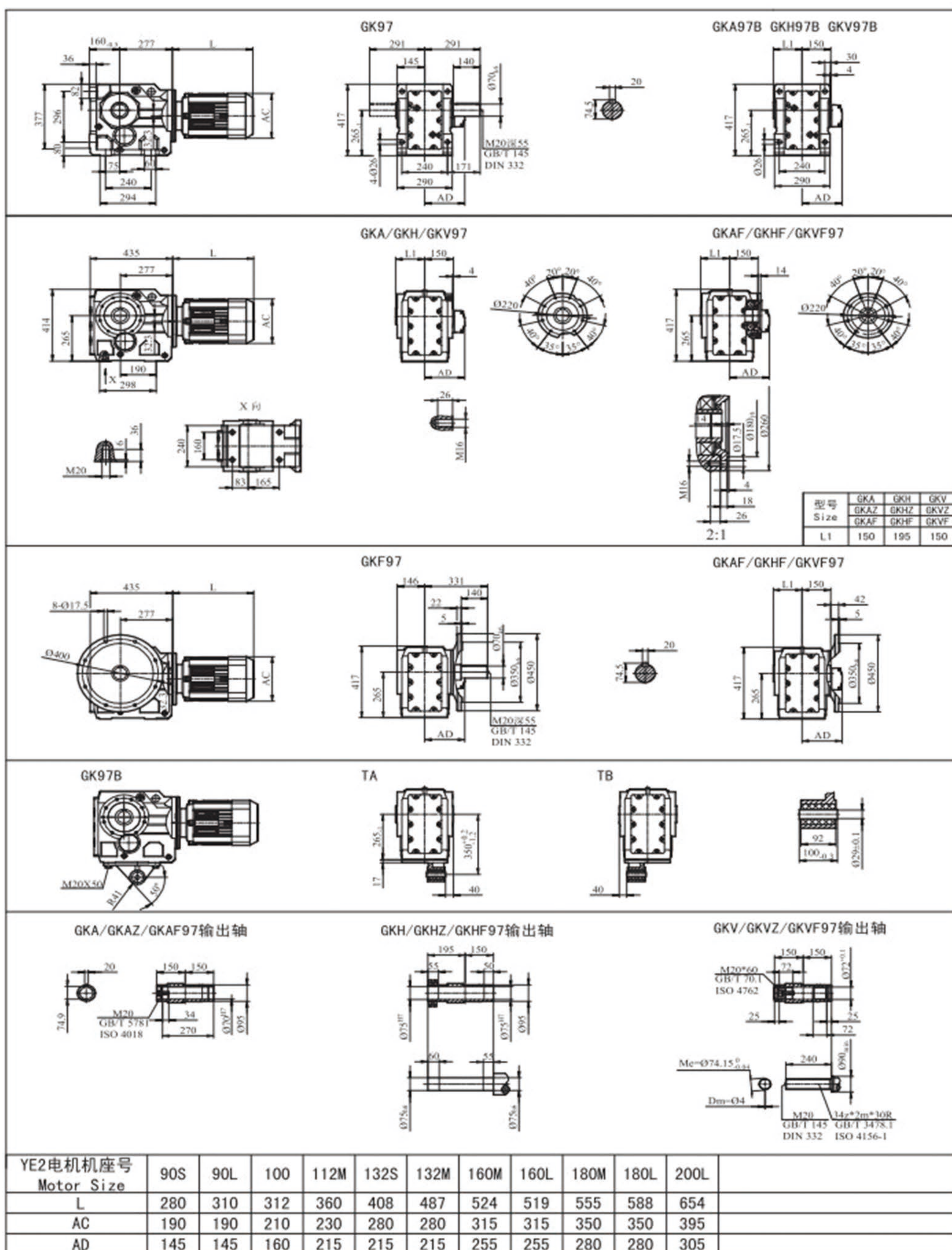
YE2电机机座号
Motor Size

YE2电机机座号 Motor Size	63	71	80	90S	90L	100	112M	132S
L	205	260	290	300	330	330	380	430
AC	120	145	170	190	190	210	230	280
AD	110	130	135	145	145	160	215	215



型号 Size	GKA	GKH	GKV
	GKAZ	GKHZ	GKVZ
	GKAF	GKHF	GKVF
L1	105	136	105

217





GK107

GKA107B GKH107B GKV107B

GKA/GKH/GKV107

GKAZ/GKHZ/GKVZ107

GKF107

GKAF/GKHF/GKVF107

GKA107T

TA

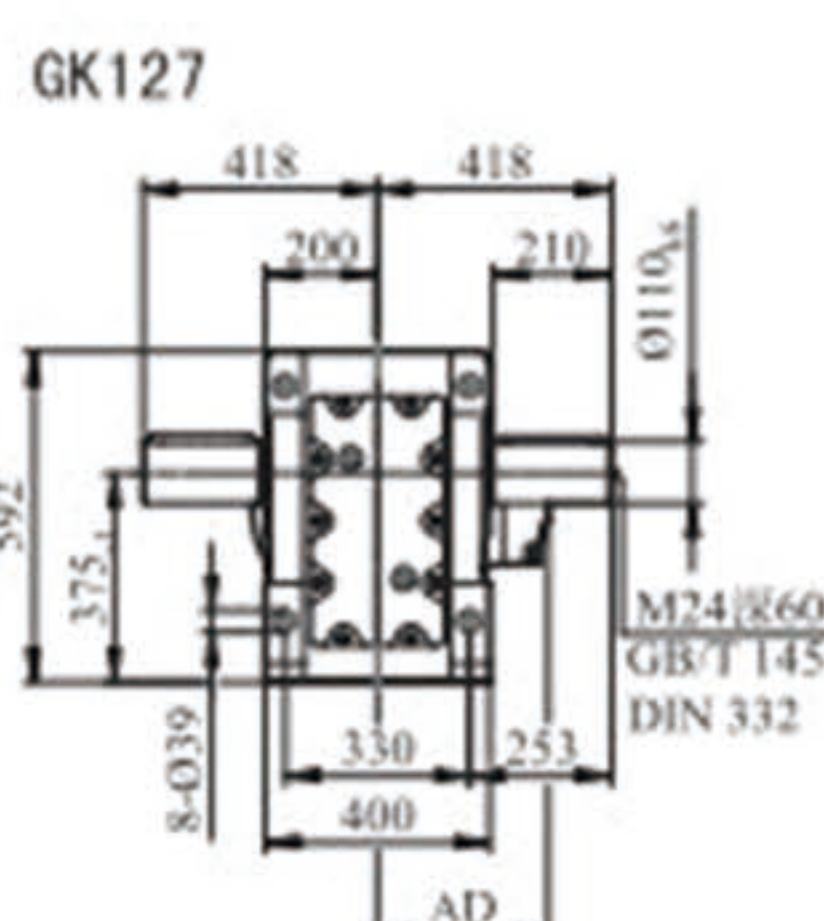
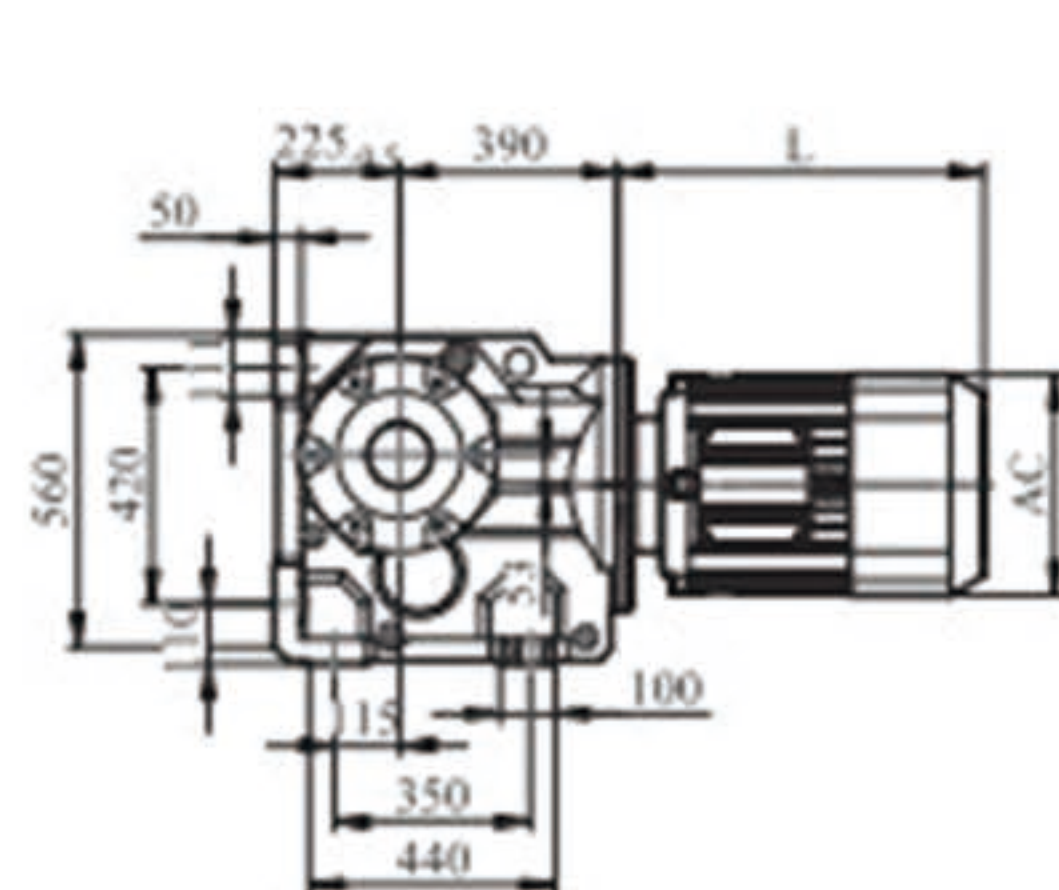
TB

GKA/GKAZ/GKAF107输出轴

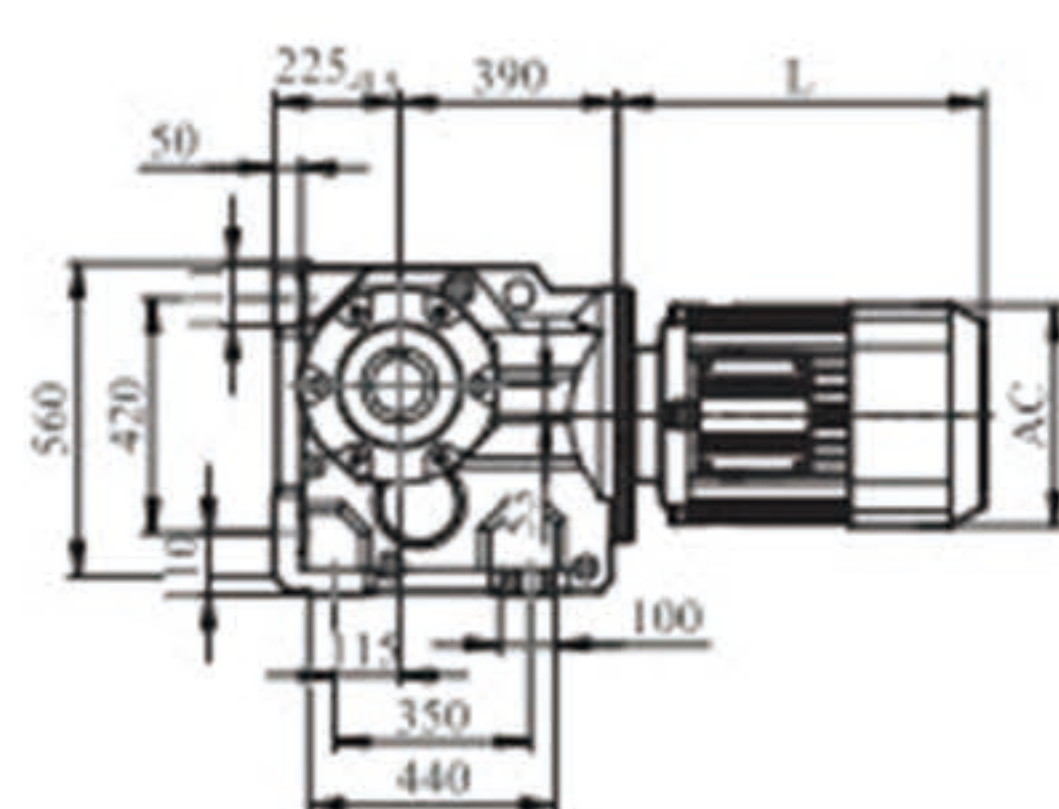
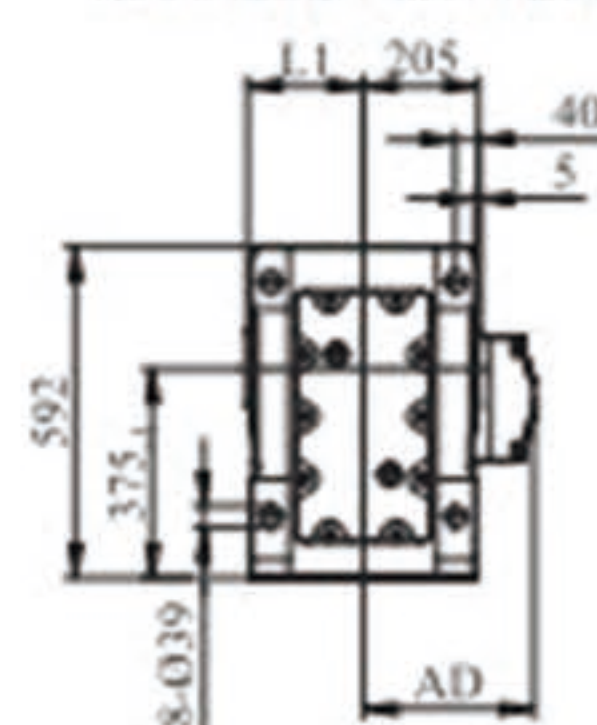
GKH/GKHZ/GKHF107输出轴

GKV/GKVZ/GKVF107输出轴

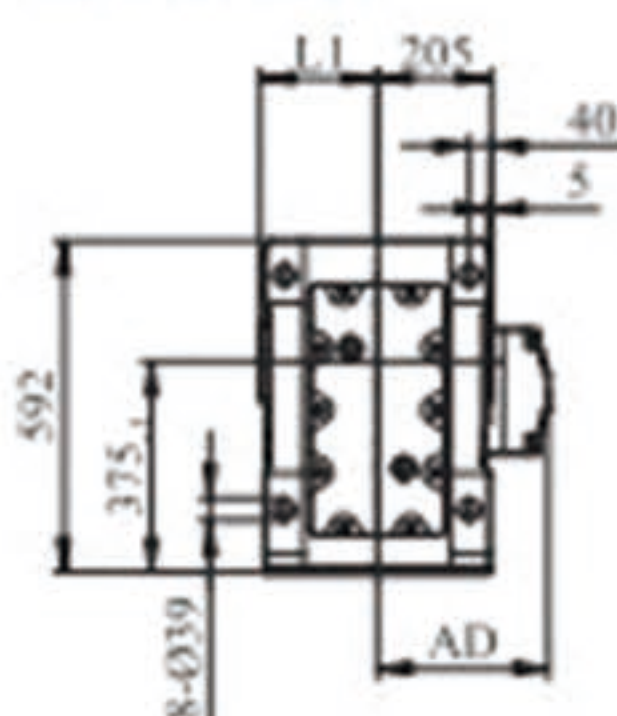
YE2电机机座号 Motor Size	100	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
L	308	354	403	482	524	519	555	588	654	680	702
AC	210	230	280	280	315	315	350	350	395	450	450
AD	160	215	215	215	255	255	280	280	305	335	335



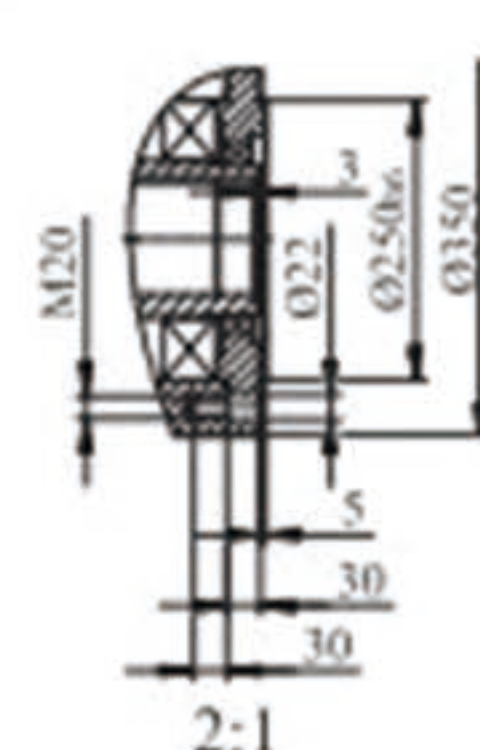
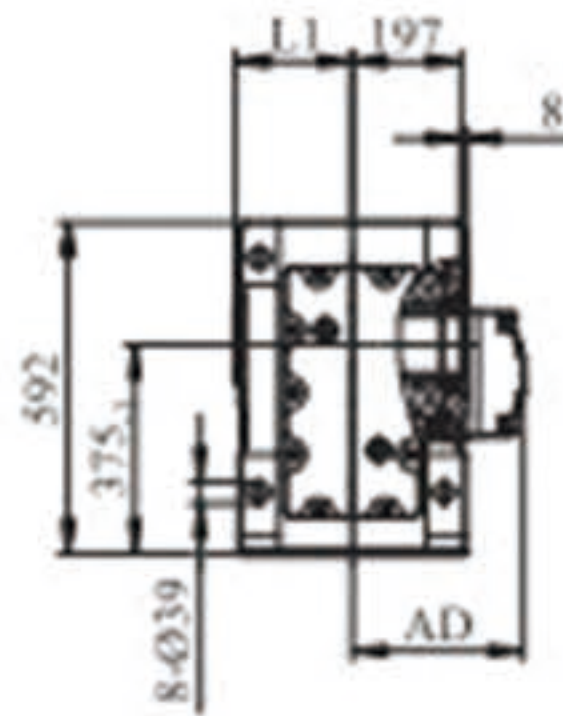
GKA127B GK127B



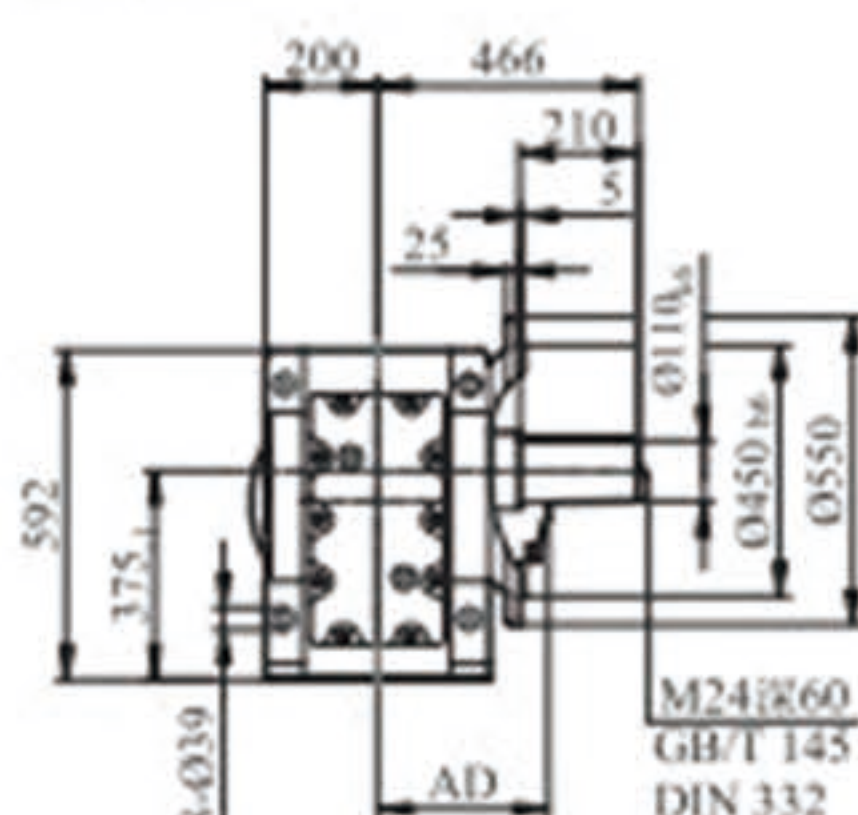
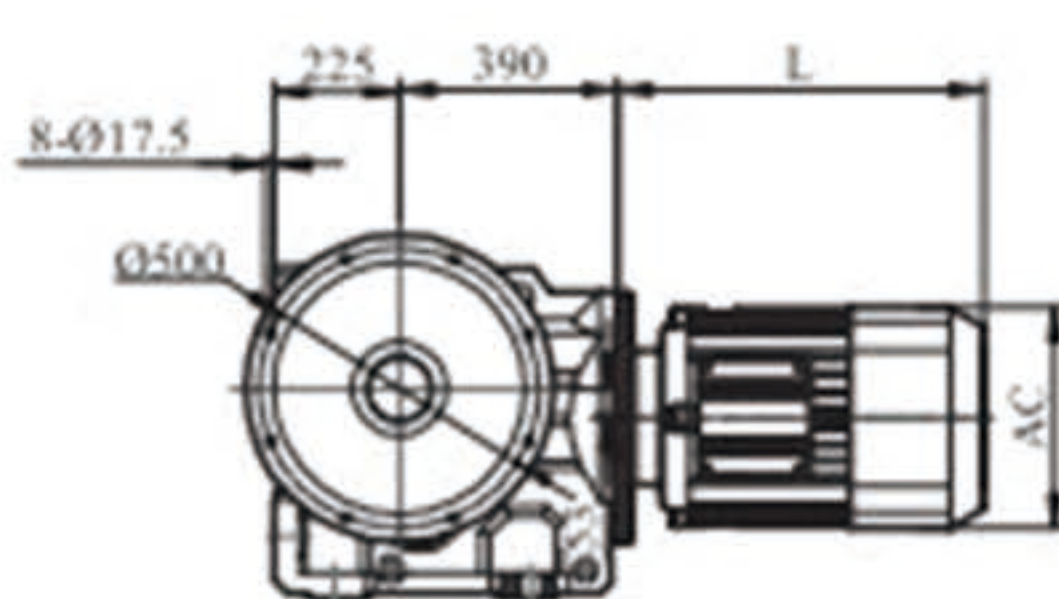
GKA/GKH127



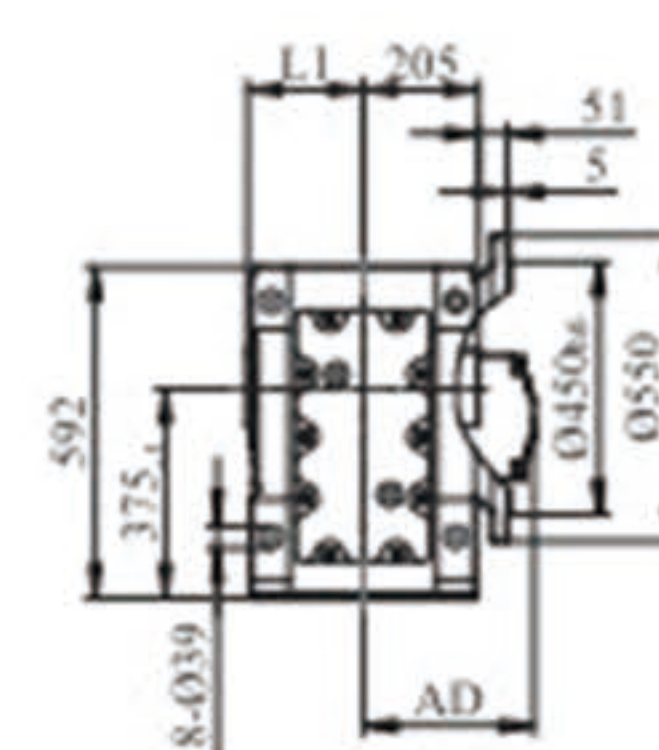
GKAZ/GKHZ127



GKF127

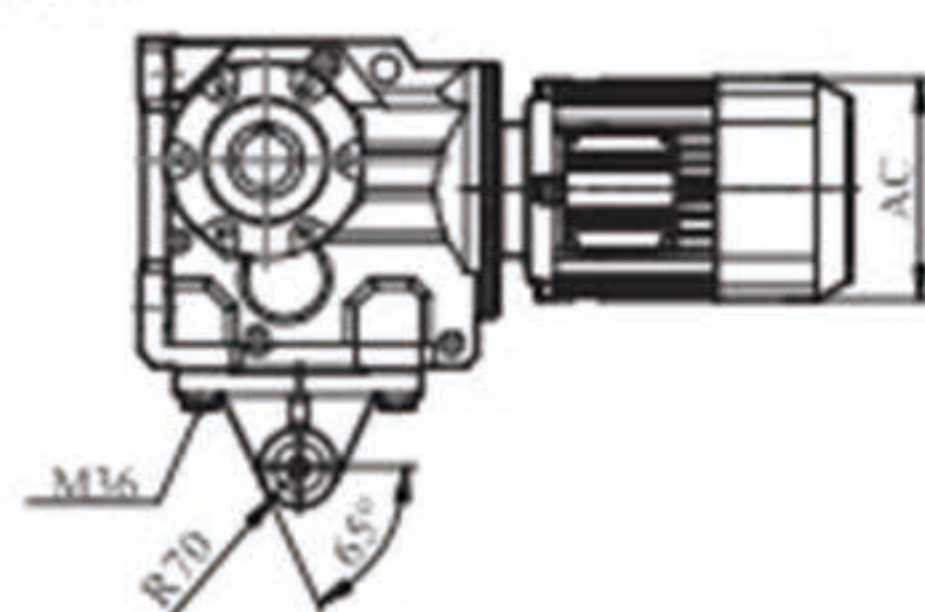


GKA/GKH127

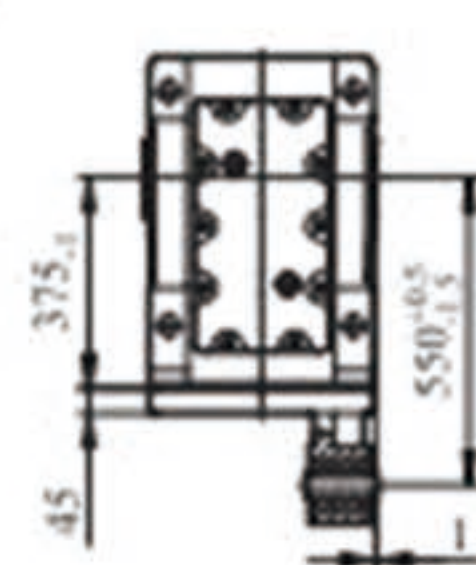


型号	GKA	GKH
Size	GKAZ	GKHZ
	GKAF	GKHF
L1	205	280

GKA127T



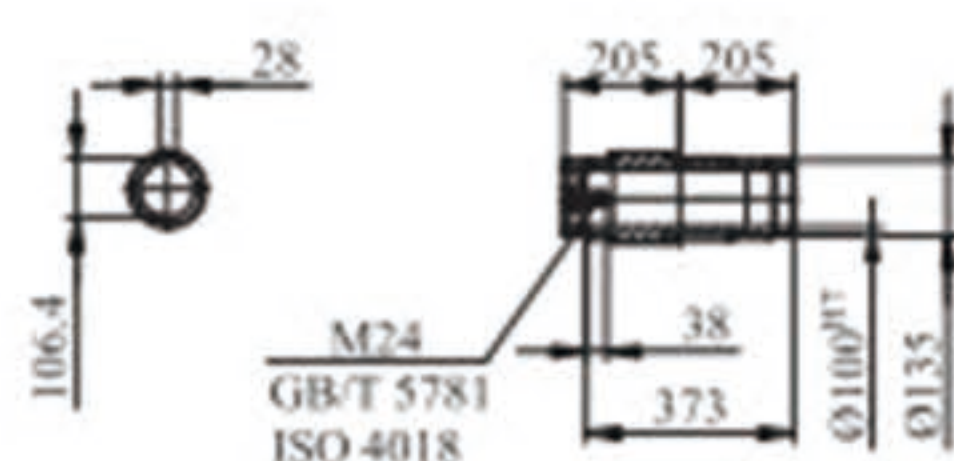
TA



TB



GKA/GKAZ/GKAF127输出轴



GKH/GKHZ/GKHF127输出轴



YE2电机机座号 Motor Size	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
L	567	602	635	666	642	669	691	770	828	879
AC	315	315	350	350	395	450	450	480	530	530
AD	255	255	280	280	305	335	335	370	410	410



GK157

GKA157B GKH157B

GKA/GKH157

GKAZ/GKHZ157

GKF157

GKAF/GKHF157

GK157B

TA

TB

GKA/GKAZ/GKAF157输出轴

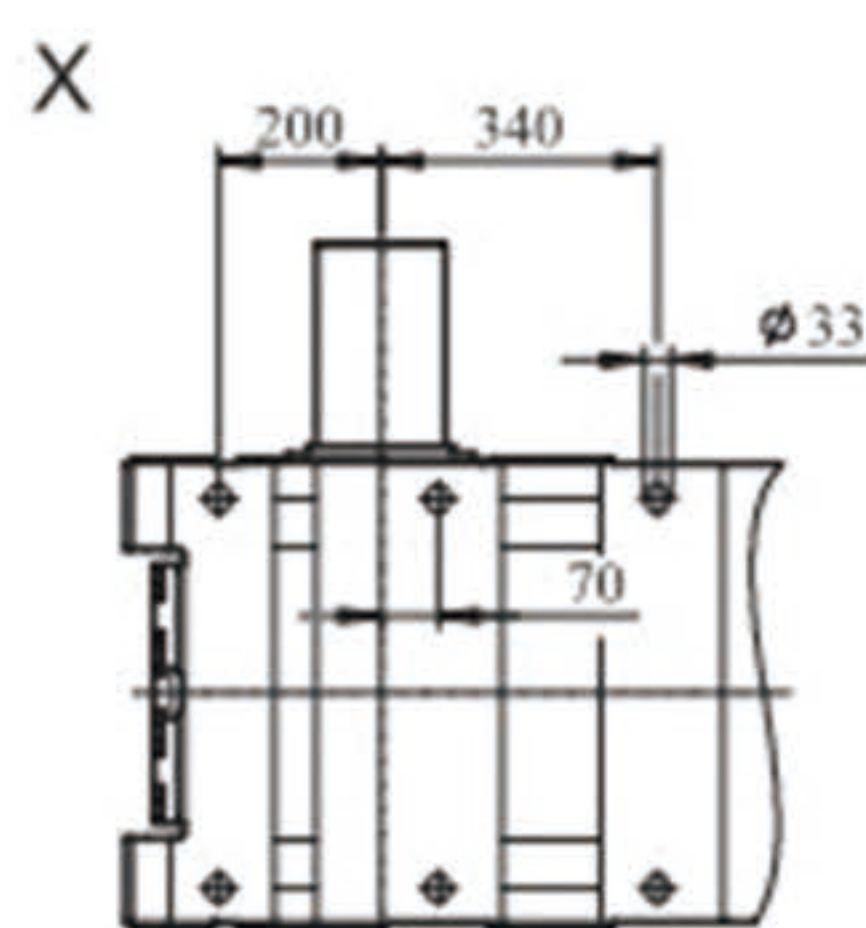
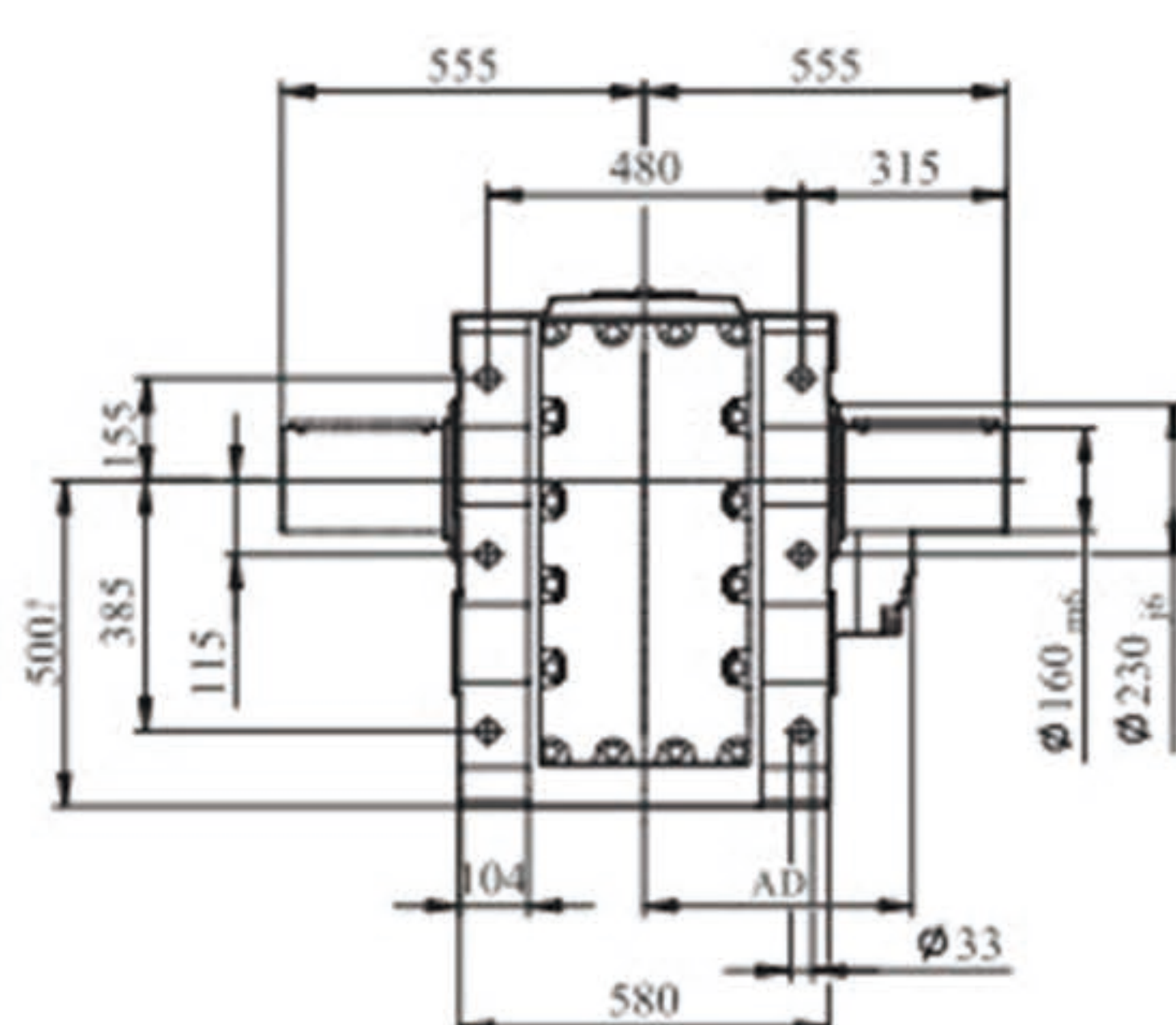
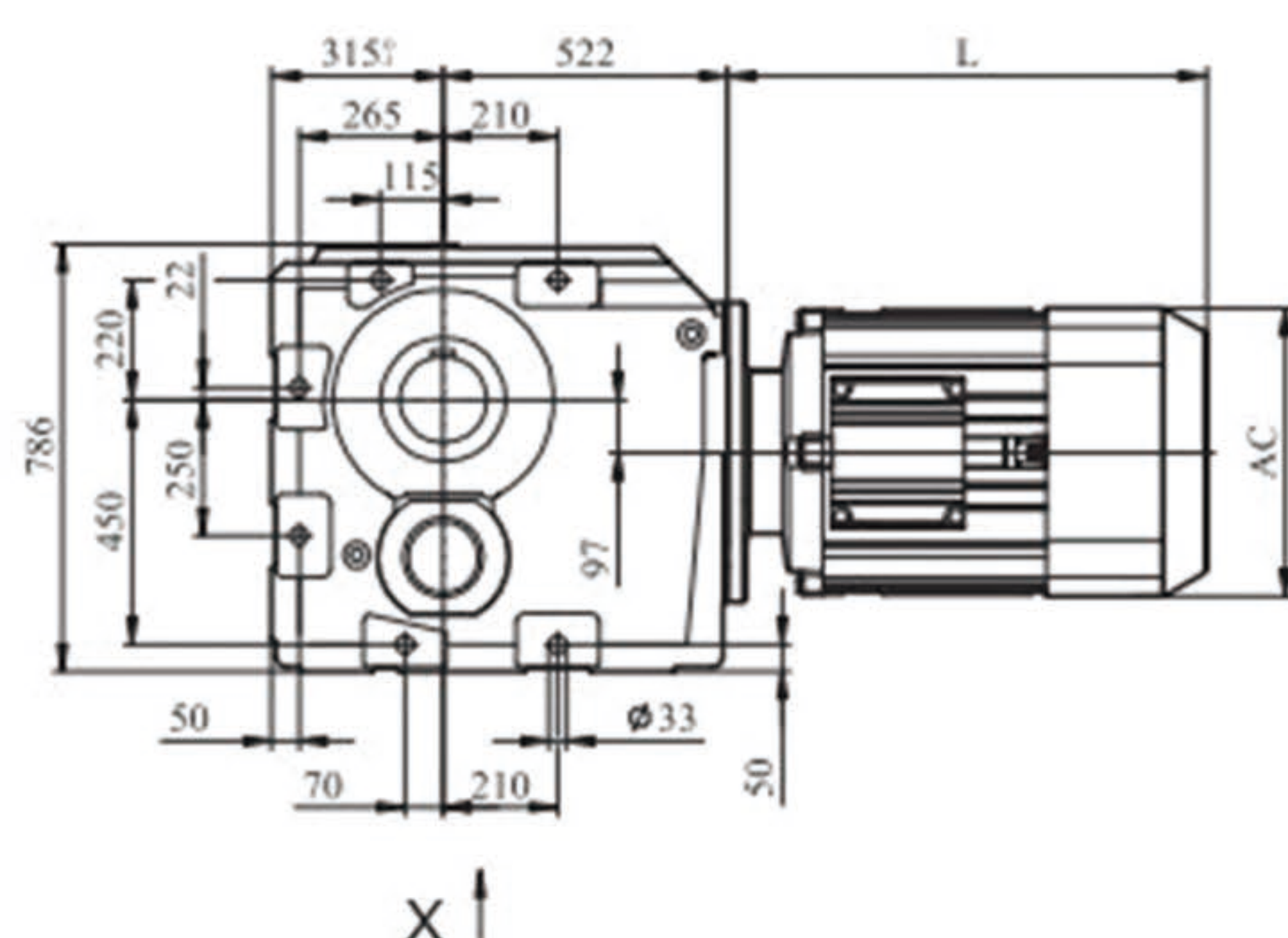
GKH/GKHZ/GKHF157输出轴

型号	GKA	GKH
Size	GKAZ	GKHZ
	GKAF	GKHF
L1	250	330

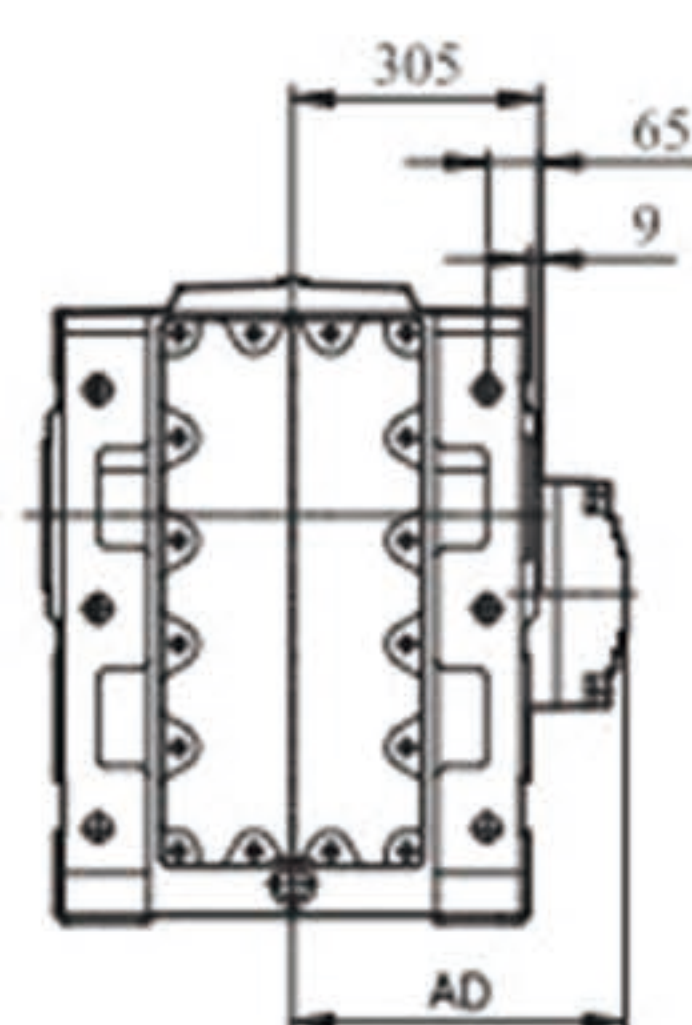
YE2电机机座号 Motor Size	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M	315L
L	567	602	635	666	642	669	691	770	828	879	1100	1210	1210
AC	315	315	350	350	395	450	450	480	530	530	645	645	645
AD	255	255	280	280	305	335	335	370	410	410	530	530	530

YE2电机机座号 Motor Size	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M	315L
L	567	602	635	666	642	669	691	770	828	879	1100	1210	1210
AC	315	315	350	350	395	450	450	480	530	530	645	645	645
AD	255	255	280	280	305	335	335	370	410	410	530	530	530

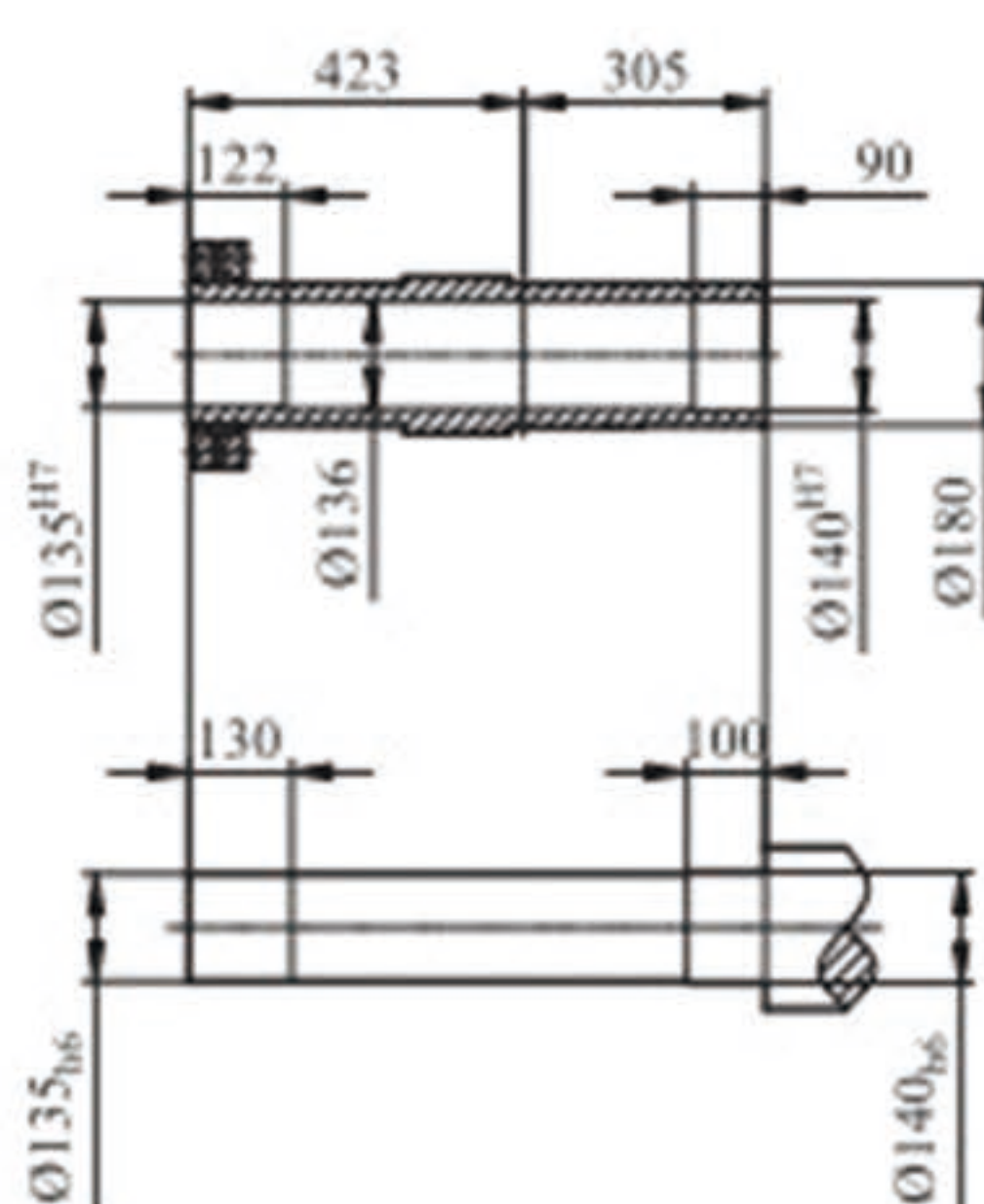
GK167



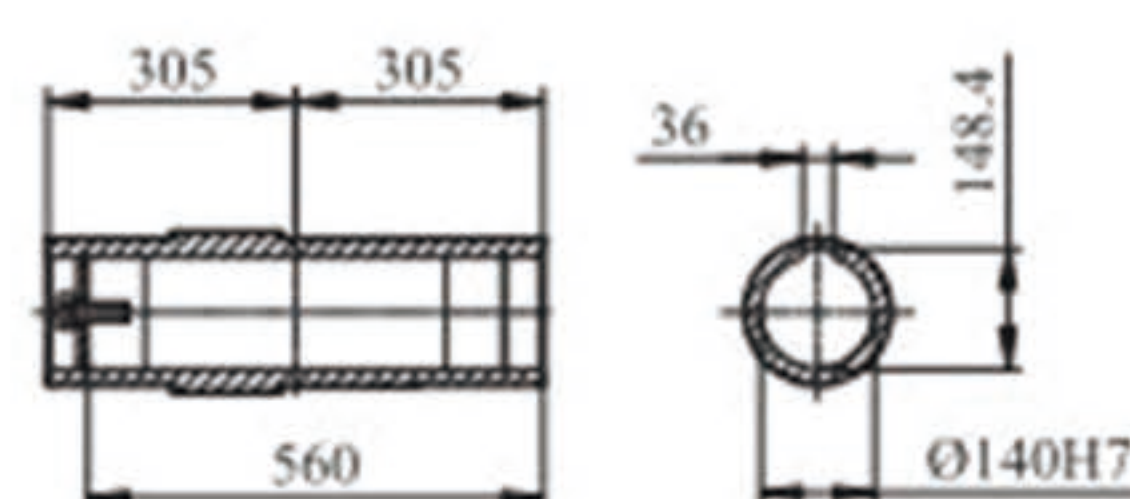
GKA/GKH167



GKH167输出轴



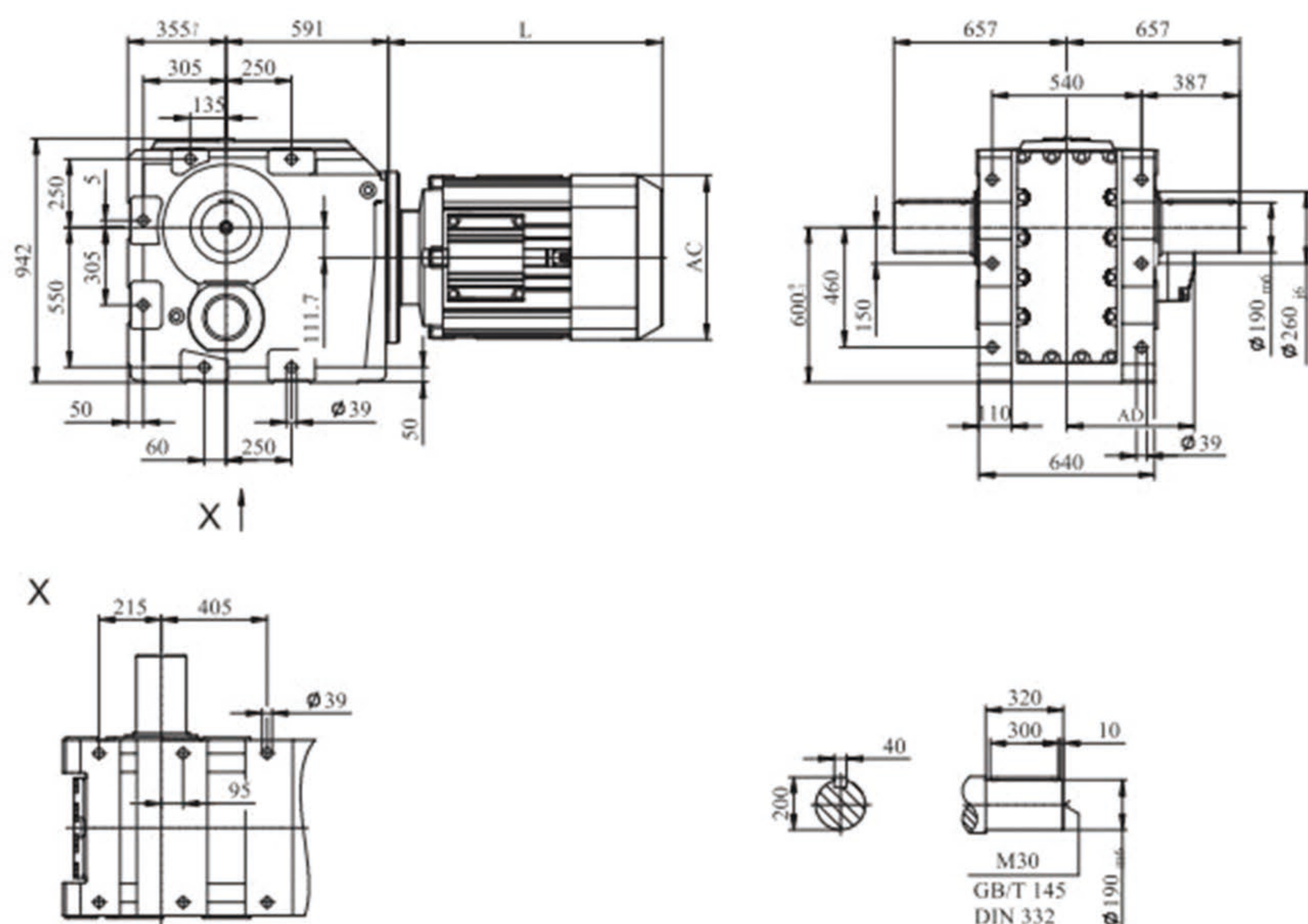
GKA167输出轴



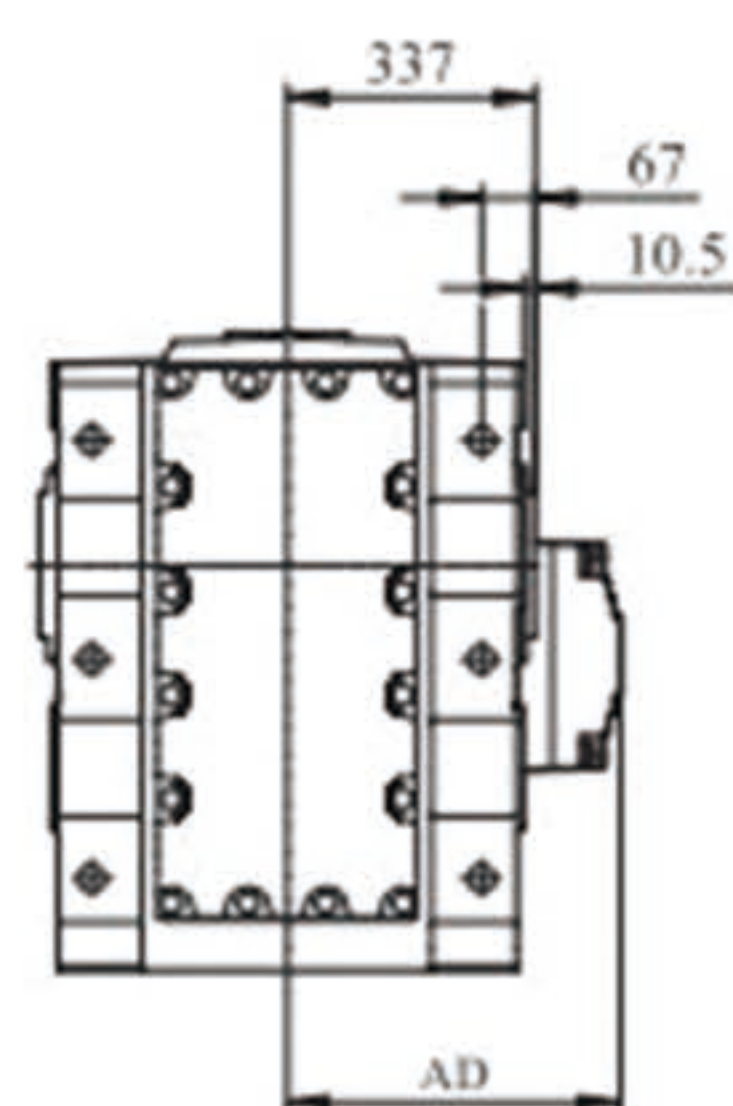
YE2电机机座号 Motor Size	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M	315L	
L	567	602	635	666	642	669	691	770	828	879	1100	1210	1210	
AC	315	315	350	350	395	450	450	480	530	530	645	645	645	
AD	255	255	280	280	305	335	335	370	410	410	530	530	530	



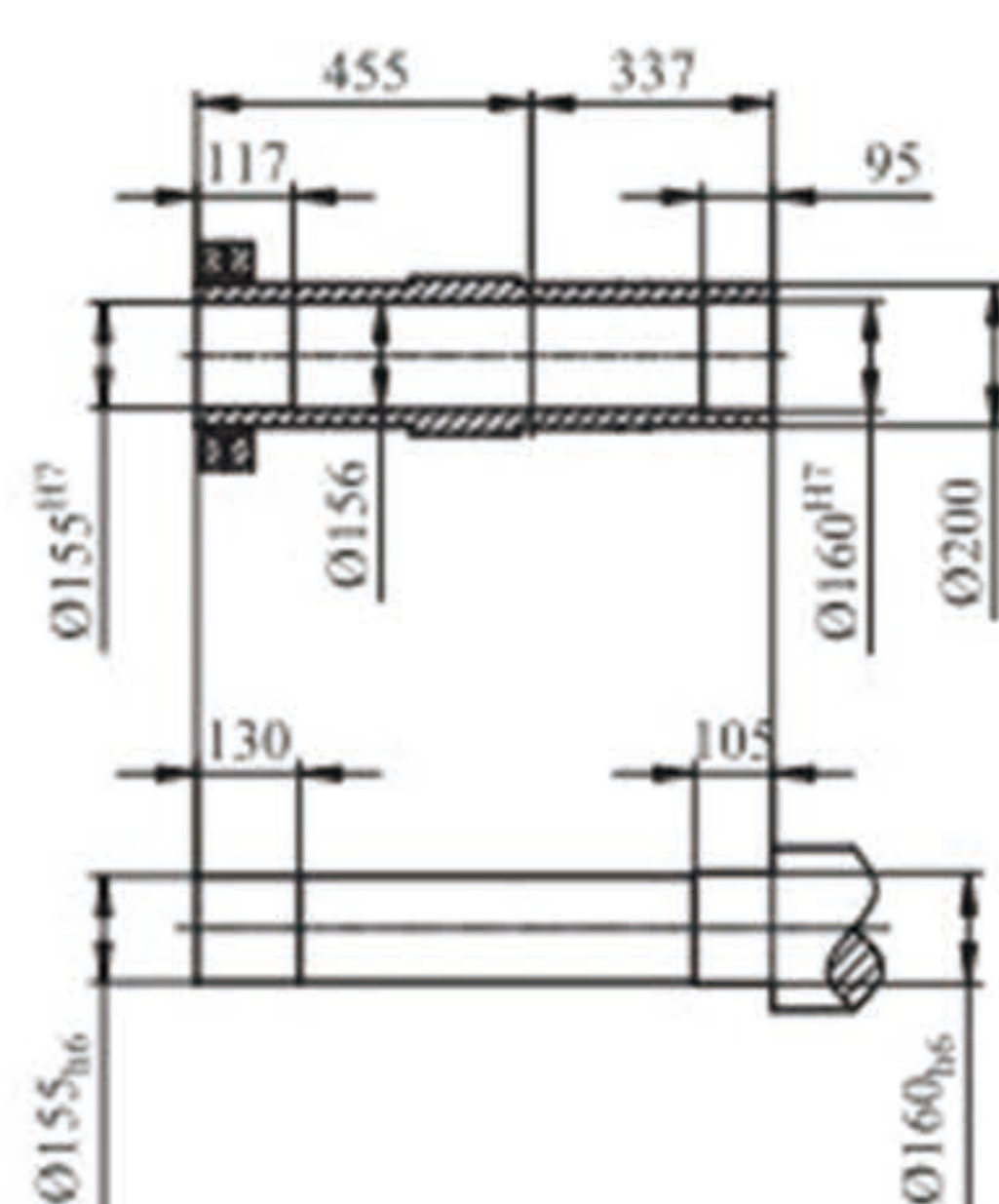
GK187



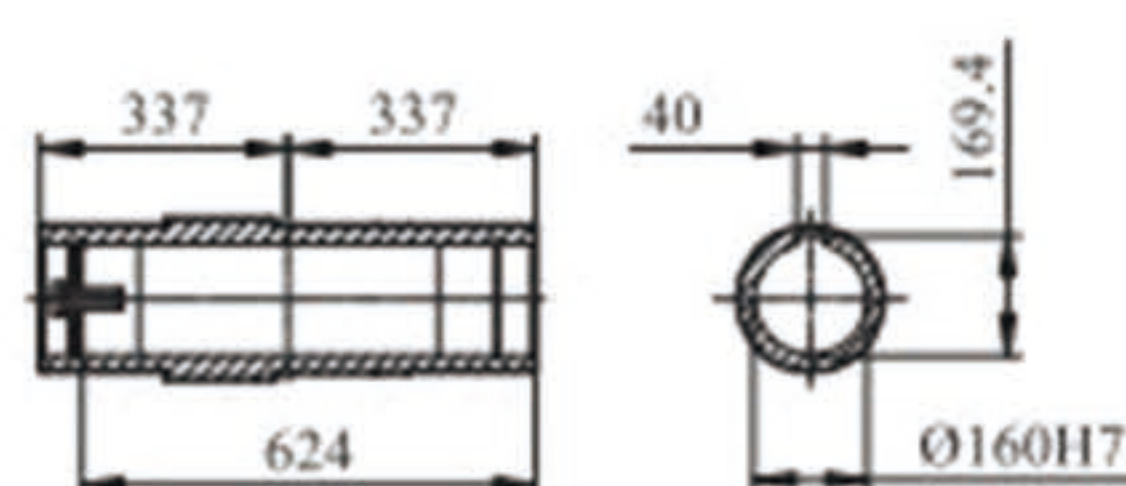
GKA/GKH187



GKH187输出轴



GKA187输出轴



YE2电机机座号 Motor Size	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M	315L	
L	567	602	635	666	642	669	691	770	828	879	1100	1210	1210	
AC	315	315	350	350	395	450	450	480	530	530	645	645	645	
AD	255	255	280	280	305	335	335	370	410	410	530	530	530	