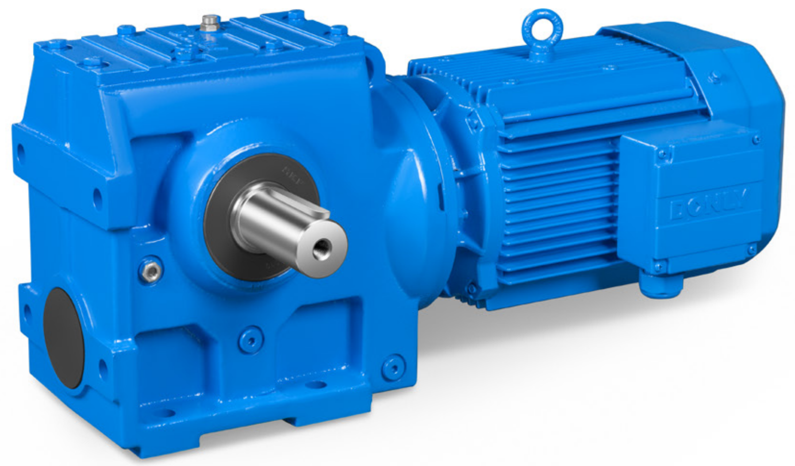
DONLY TRANSMISSION



东力减速电机

斜齿轮－蜗轮蜗杆减速电机

HELICAL-WORM GEARMOTORS

型号 Type DLS

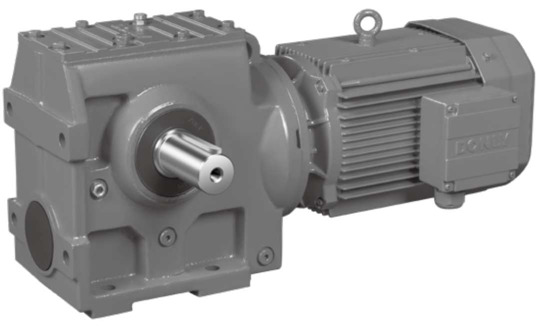
版本 Edition 2021

DONLY

驱 动 无 限 可 能

2021

DLS
减速电机
Gearmotors



DONLY

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DLS
减速电机
Gearmotors

DONLY

产品说明 / Product Description

1.1 产品特点

DLS 系列模块化减速电机是全新设计开发的第四代高性能模块化减速电机，其主要优点有：

更高程度的模块化设计，使全系列产品使用更少的零件，并满足更多不同行业和场合的应用需要；

齿轮采用优质低碳合金钢渗碳淬火磨齿工艺和修形技术使产品具有更高的承载能力，运行更可靠，噪音更低，效率更高；

独特美观的整体式高强度铸造箱体，具有更高的刚度和抗振性；

更为精细的传动比分级，充分满足用户的对精准输出转速的需求；

更全面的设计，使产品适合在空间任意角度安装。

1.1 Product features

DLS series modular gearmotors are completely new designed 4th generation, Advantages are:

More sizes with a reduced variety of parts;

Increased power capacity, lower noise and higher efficiency by grinding and gear modification.

The all-in-one box provides higher rigidity and higher vibration resistance.

More ratios satisfy the need of accurate output speed.

Gearmotors can be supplied for either horizontal or vertical installation in any angle.

1.2 使用条件

环境温度

DLS 系列减速电机在添加 1.4 章所规定的润滑油的情况下可在下表所述环境温度范围内正常运行：

1.2 Work conditions

Ambient temperature

The following standard temperature ranges are permitted for filling the gear units according to the lubricant table illustrated in chapter 1.4

减速电机 Gearmotors	润滑油 Lubricant	环境温度 Ambient temperature
DLS 系列减速电机	CLP(CC) VG680	-10℃ …+40℃

海拔高度

在高海拔位置，由于空气密度下降，电动机和齿轮箱的散热能力下降。样本中的额定数值为最大海拔高度为 1000 米时的值。海拔高度超过 1000 米必须考虑海拔高度影响，详细请与东力公司联系。

Installation altitude

Due to the low air density at high installation altitudes, the heat dissipation on the surface of motors and gear units decrease. The rated data listed in the catalogue applies to an installation altitude of maximum 1000 m above sea level. Installation altitudes of more than 1000 m must be taken into account for project planning of gear units and gearmotors. Please contact with DONLY for details.

相对湿度

通用环境湿度＜ 90%。

当环境湿度高于 90%时必须考虑特殊表面防护的要求，详见 2.10 表面防护说明。

Relative humidity

Normal relative humidity should be lower than 90%.

Relative humidity of more than 90%, the surface protection must be taken into account according to chapter 2.10.

1.3 通用技术条件

功率和转矩

样本中列出的功率为电动机的额定输出功率，减速电机的输出功率要考虑减速机的效率。输出转矩为减速机或减速电机的输出转矩，其是指减速（电）机在 M1 安装方式时（高速级齿轮没有完全进入润滑油中），在标准润滑和环境温度情况下的值。

速度

选型表提供的输出转速是推荐值，实际输出转速取决于电动机的负载和电源供电状况。

许用径向力

选型表中列出的为地脚式安装的减速电机的许用径向力。

法兰安装的减速电机，其输出轴的许用径向力为选型表中值的 50%。

许用轴向力

如果输出轴上没有径向力，其许用轴向力为选型表中给定许用径向力的 50%。

油漆

减速电机的标准油漆为灰色金属油漆。其他特殊油漆要求请在订货时说明。

表面防护和防腐蚀

如果需要，所有的减速电机均可提供特殊表面防护以满足极端潮湿和化学侵蚀环境的需求，详见 2.9 防腐蚀和 2.10 表面防护的说明。

重量

样本中给出的重量为不包括润滑油的参考重量。减速机的实际重量与减速比有关。

电机风扇进气空间

减速电机必须留出足够的径向和轴向空间防止阻挡空气进入和妨碍制动器维护工作。

贮存期限

减速机和减速电机的贮存期限不得超过 6 个月，对于需要长期贮存的请与东力公司联系。

1.3 General notes

Power and torque

The power and torque ratings listed in the catalogs refer to mounting position M1, in which the input stage is not completely submerged in oil. In addition, the gearmotors are assumed to be standard versions with standard lubrication and under normal ambient conditions.
Please note that the motor power shown in the selection tables for gearmotors is subject to selection. However, the output torque and the desired output speed are essential for the application and need to be checked.

Speed

The quoted output speeds of the gearmotors are recommended values. The actual output speed depends on the motor load and the supply system conditions.

Permitted overhung load

The permitted overhung loads FRa for the output shafts of footmounted gear units with a solid shaft are listed in the selection tables for gearmotors. Flange-mounted gearmotors: A maximum of 50% of the overhung load FRa specified in the selection tables for torque transmission via flange mounting are permitted.

Permitted axial load

If there is no overhung load, then an axial force FA (tension or compression) amounting to 50% of the overhung load given in the selection tables is permitted.

Painting

Gearmotors from DONLY are painted with grey machine paint. Special coatings are available on request.

Surface and Anti-corrosion protection

If required, all gear units, gearmotors from DONLY can also be supplied with special surface protection for applications in extremely humid and chemically aggressive environments according to chapter 2.8 and 2.9.

Weights

Please note that all weights shown in the catalogs exclude the oil fill for the gearmotors. The weights are recommended values. The actual value depends on the ratio.

Air admission and accessibility

The gearmotors must be mounted on the driven machine in such a way that both axially and radially there is enough space left for unimpeded air admission, for maintenance work on the brake.

Storage

The storage period of gear units and gearmotors is not more than 6 months, for extended storage please contact with DONLY.

1.4 润滑油

概述

除非特殊说明，通常减速电机出厂时不带润滑油。在试车前确保按说明书加好润滑油。如果安装方式与订货方式不一致，请按新安装方式调整合适的油量及通气塞的位置。

1.4 Lubricants

General information

Unless a special arrangement is made, DONLY supplies the drives without lubricant. Please fill lubricant before operation. You must change lubricant fill and breather valve according to new mounting position.

润滑油牌号

下页显示的润滑表为东力公司推荐的润滑油牌号，请参考下面图例。

Lubricant table

The lubricant table on the following page shows the permitted lubricants for DONLY gear units. Please refer to the following legend for the lubricant table.

°C -50 0 +50 +100		DIN (ISO)	ISO,NLGI	Mobil	Shell	KLÜBER LUBRICATION	ARAL	bp	TEXACO
-10	+40	CLP(CC)	VG 220	Mobilgear 600 XP 200	Shell Omala 220	Klüberoil GEM 1-220 N	Aral Degol BG 220	BP Energol GR-XP 220	Meropa 220
-25	+80	CLP PG	VG 220	Mobil Glygoyle 30	Shell Tivela S 220	Klübersynth GH 6-220	Aral Degol GS 220	BP Enersyn SG-XP 220	Synlube CLP 220
-40	+80	CLP HC	VG 220	Mobil SHC 630	Shell Omala HD 220	Klübersynth GEM 4-220 N	Aral Degol PAS 220		Pinnacle EP 220
-40	+40		VG 150	Mobil SHC 629	Shell Omala HD 150	Klübersynth GEM 4-150 N			Pinnacle EP 150
-20	+25	CLP(CC)	VG 150 VG 100	Mobilgear 600 XP 100	Shell Omala 100	Klüberoil GEM 1-150 N	Aral Degol BG 100	BP Energol GR-XP 100	Meropa 150
-30	+10	HLP(HM)	VG 68-46 VG 32	Mobil D.T.E. 13M	Shell Tellus T 32	Klüberoil GEM 1-68 N	Aral Degol BG 46		Rando EP Ashless 46
-40	+10	CLP HC	VG 32	Mobil SHC 624		Klüber-Summit HySyn FG-32			
-40	-20	HLP(HM)	VG 22 VG 15	Mobil D.T.E 11M	Shell Tellus T 15	Isoflex MT 30 ROT		BP Energol HLP-HM15	Rando HDZ 15
-30	+40	HCE	VG 460		Shell Casslda Fluid GL460	Klüberoil 4UH1-460 N	Aral Eural Gear 460		
-20	+40	E	VG 460			Klüberbio CA2-460	Aral Degol BAB 460		

注:
CLP = 矿物油
CLP PG = 聚乙二醇
CLPHG = 合成油
HLP = 液压油
HCE = 食品行业专用润滑油（食品级油）
E = 生态油（农业、森林、渔业专用油）

Notes:
CLP = Mineral oil
CLP PG = Polyglycol
CLPHG = Synthetic hydrocarbons
HLP = Hydraulic oil
HCE = Lubricant for the food industry(food grade oil)
E = Biodegradable oil(lubricant for agriculture, forestry and fisheries)

产品说明 Product Description

润滑油数量

润滑油量为参考值。精确值取决于齿轮箱的级数和减速比。当加油时请注意检查油位螺塞，其指示了精确油量。

Lubricant fill quantities

The specified fill quantities are guide values. The precise values vary depending on the number of stages and gear ratio. When filling, it is essential to check the oil level plug since it indicates the precise oil capacity.

下表为与安装方式 M1−M6 相关的油量值。

The following tables show guide values for lubricant fill quantities in relation to the mounting position M1 ... M6.

润滑油量表

Lubricant fill quantity table

DLS..., DLSF...

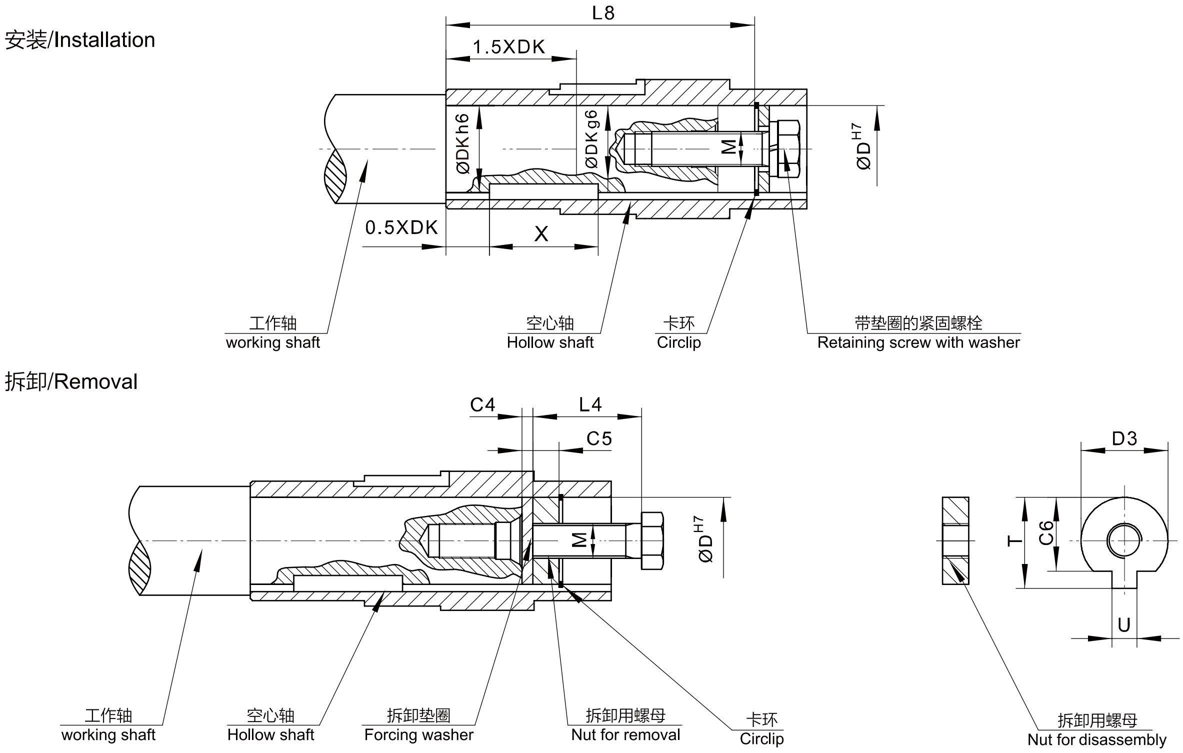
减速电机型号 Gear unit type	润滑油量（升）/Fill quantity in liters					
	M1	M2	M3	M4	M5	M6
37	0.3	0.4	0.5	0.6	0.4	0.4
47	0.3	0.8	0.7	1.2	0.9	0.9
57	0.4	1.1	1.0	1.6	1.2	1.2
67	0.8	2.1	2.0	3.3	2.4	2.4
77	1.4	4.0	3.8	5.9	4.7	4.7
87	3.1	7.9	7.6	12.0	8.8	8.8
97	5.5	14.7	13.3	24.1	15.9	15.9

DLSA..., DLSH..., DLSAF..., DLSHF..., DLSAZ..., DLSHZ...

减速电机型号 Gear unit type	润滑油量（升）/Fill quantity in liters					
	M1	M2	M3	M4	M5	M6
37	0.3	0.4	0.5	0.6	0.4	0.4
47	0.4	0.8	0.8	1.2	0.9	0.9
57	0.4	1.2	1.1	1.7	1.3	1.3
67	0.9	2.0	1.8	3.2	2.3	2.3
77	1.7	3.9	3.7	6.2	4.6	4.6
87	3.5	7.6	6.9	11.2	8.2	8.2
97	6.4	14.0	11.8	21.4	14.6	14.6

1.5 带平键空心轴的尺寸及拆装

1.5 Assembly/disassembly of gear units with hollow shafts and keys



注：随机不提供上述安装和拆卸零件

Notes：delivery without above parts

尺寸及紧固力矩

Dimensions and tightening torques

减速器型号 Gear unit type	DM7	DK	L8	M	C4	C5	C6	$U_{-0.5}$	$T_{-0.5}$	$03_{-0.5}$	L4	紧固力矩 Tightening torque Nm
DLSA..37	20	20	104	M6	5	6	15.5	5.5	22.5	19.7	25	8
DLSA..47	25	25	105	M10	5	10	20	7.5	28	24.7	35	20
DLSA..47 DLSA..57	30	30	105 132	M10	5	10	25	7.5	33	29.7	35	20
DLSA..57	35	35	132	M12	5	12	29	9.5	38	34.7	45	20
DLSA..67	40	40	144	M16	5	12	34	11.5	41.9	39.7	50	40
DLSA..67	45	45	144	M16	5	12	38.5	13.5	48.5	44.7	50	40
DLSA..77	50	50	183	M16	5	12	43.5	13.5	53.5	49.7	50	40
DLSA..77 DLSA..87	60	60	180 220	M20	5	16	56	17.5	64	59.7	60	80
DLSA..87 DLSA..97	70	70	220 260	M20	5	16	65.5	19.5	74.5	69.7	60	80
DLSA..97	90	90	255	M24	5	20	80	24.5	95	89.7	70	200

2.1 产品型号描述

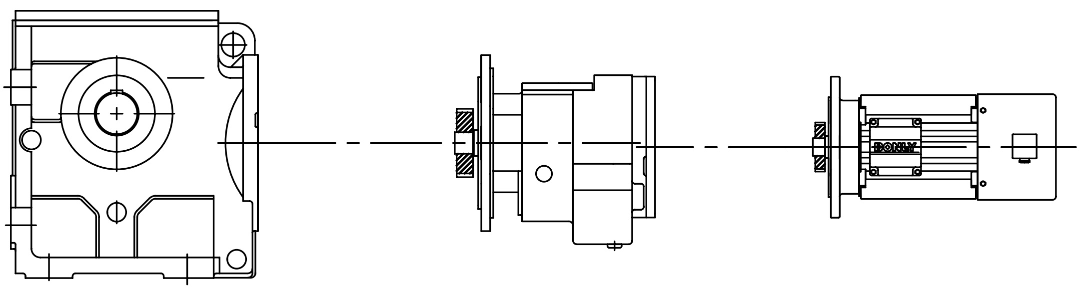
减速电机型号从输出端开始描述。
示例如下：

2.1 Product model description

The model of gear motor is described from the output end.
Examples are as follows:

DL S 97 R 57 DE3-100L1-4 / TF

- TF — 电机附件 / Motor accessories
  具体详见电机样本 / see motor sample for details
- DE3-100L1-4 —
  AM 标准电机连接头 / IEC standard motor adapter
  SF 伺服电机连接头 / Servo motor adapter
  S 双轴型减速机 / Input shaft
  DE3 三相异步电动机 / Three phase AC motor
  可配其他各类电动机 / Other motors are available
- 57 — 机座号 / Size
- R — 产品类型 / Type
- 97 — 机座号 / Size
- S — 产品类型 / Type
- DL — 东力产品代号 / Donly production symbol



DLS97 DLR57 DE3-100L1-4/TF

其他型号描述示例：

DLSA87 DE3−100L4/E1

- 东力产品代号：DL
- 产品类型：SA87
- 机座号：87
- 电机：三相异步电动机 DE3
- 电机规格：100L，4 极
- 电机附件：E1 制动器

Other model description：

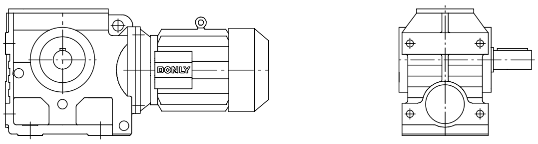
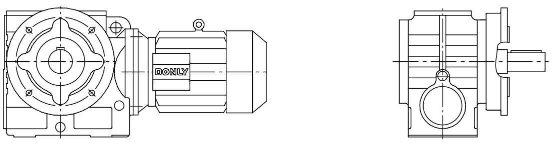
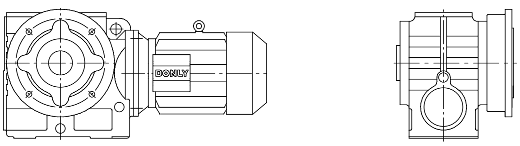
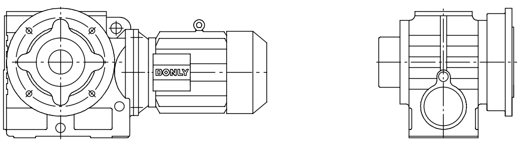
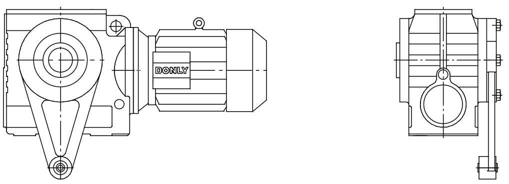
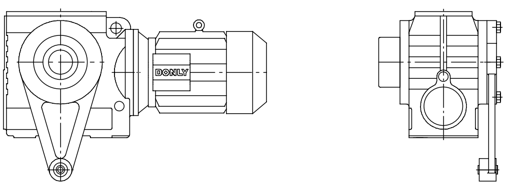
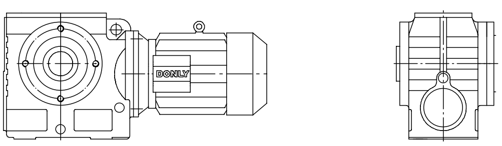
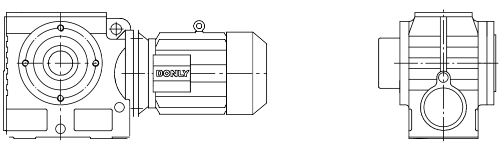
- DLSA87 DE3-100L4/E1
- Donly production symbol：DL
- Type：SA87
- Size：87
- Motor：Three-phase asynchronous motor DE3
- Motor specification：100L, 4
- Motor accessories：E1 brake

产品型号表示及订货说明

Product Designations And Order Information

产品类型

Product type

代号 /Type	示意图 /Figure	说明 /Description
DLS		地脚式安装实心轴输出 Foot-mounted design with solid shaft
DLSF		B5 法兰安装实心轴输出 B5 flange-mounted design with solid shaft
DLSAF		B5 法兰安装空心轴输出 B5 flange-mounted design with hollow shaft
DLSHF		B5 法兰安装空心轴带紧缩盘输出 B5 flange-mounted design with hollow shaft and shrink disk
DLSAT(DLSA)		扭力臂安装空心轴输出 Torque arm-mounted design with hollow shaft
DLSHT		扭力臂安装空心轴带紧缩盘输出 Torque arm-mounted design with hollow shaft and shrink disk
DLSAZ		B14 法兰安装空心轴输出 B14 flange-mounted design with hollow shaft
DLSHZ		B14 法兰安装空心轴带紧缩盘输出 B14 flange-mounted design with hollow shaft and shrink disk

2.2 订货参数说明

示例如下:

2.2 Ordering parameter description

Examples are as follows:

P_m kW	na min^{-1}		i	T	S	F			SP	
4kw	45	M1	31.90	T:A45°	S:φ50A	F:B	CP	L3	SP2	IR

- IR: **带空心轴装拆套件 With Assembly/disassembly kit for hollow shaft** 详见 1.5 / See Chapter 1.5
- SP2: **表面防护 / Surface protection** 详见 2.10 / See Chapter 2.10
- L3: **接线盒及接线口位置 Position of terminal box and cable entry** 详见 2.7 / See Chapter 2.7
- CP: **防腐蚀 / Anti-Corrosion protection** 详见 2.9 / See Chapter 2.9
- F:B: **输出法兰位置 / Out flange position** 详见 2.5 / See Chapter 2.5
- S:φ50A: **输出轴直径及位置 / Shaft diameter and position** 详见 2.5 / See Chapter 2.5
- T:A45°: **带扭力臂及扭力臂位置 / With torque arm and position** 详见 2.4 / See Chapter 2.4
- 31.90: **减速比 / Ration** 详见相关选型表 / See selection table
- M1: **安装方式 / Mounting position** 详见 2.6 / See Chapter 2.6
- 45: **输出转速 / Output speed** 详见相关选型表 / See selection table
- 4kw: **电机额定功率 / Motor power**

注意:
订货时必须明确 2.1 产品型号及 2.2 订货参数。

Note:
2.1 product model and 2.2 ordering parameters must be clearly defined when ordering.

2.3 制动器

根据需要，减速电机可以提供集成的电磁制动器，制动器由带直流线圈的电磁盘和弹簧组成。制动器为失电制动，其满足基本安全需要。带手动释放装置可实现手动释放。所有电机均可配套制动器。

2.3 Brake

On request, gearmotors can be supplied with an integrated mecha-nical brake. The brake is an electromagnetic disk brake with a DC coil that releases electrically and brakes using spring force. Due to its operating principle, the brake is applied if the power fails. It meets the basic safety requirements. The brake can also be released mech-anically if equipped with manual brake release.

2.4 扭力臂及安装位置

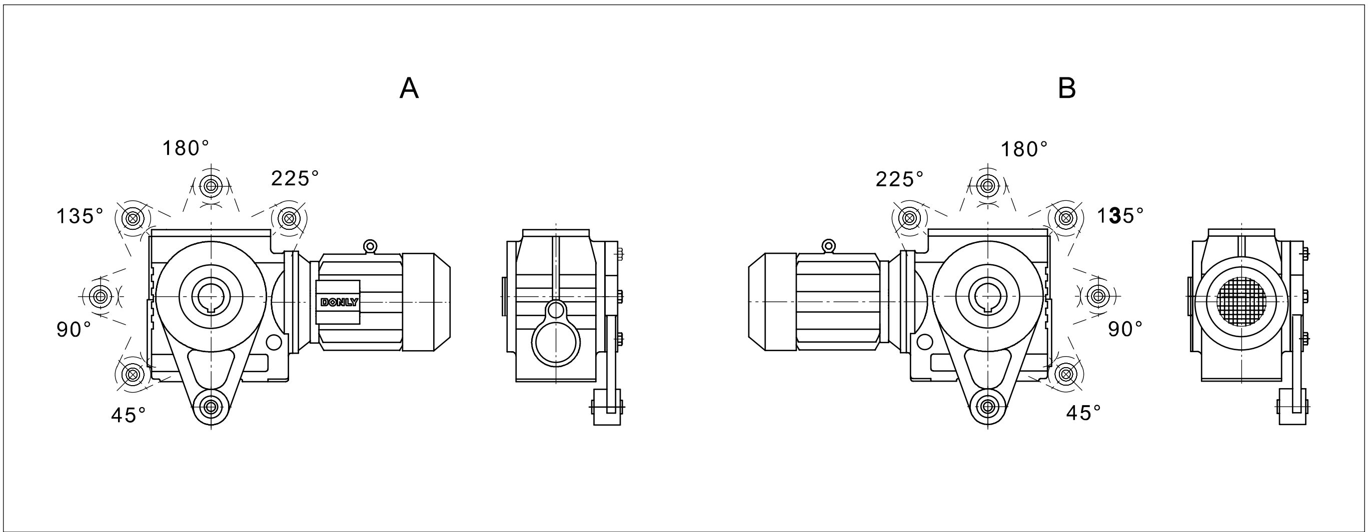
DLSAT、DLSHT 型减速机和减速电机可用扭力臂安装，需要带 扭力臂安装须按 2.2 订货参数说明的方式在订货时予以说明，其扭力 臂的安装位置表示如下

标注方为：A+　　角度 +Angl　　例：A45 °

2.4 Torque arm and position

DLSAT,DLSHT gear units and gearmotors can be installed with torque arm. For torque arm-mounted the position should be noted in the Ordering parameter description according to chapter 2.2. The positions designation as following.

Designation：A+　　Side：+Angl　　Example: A45 °



2.5 输出轴和输出法兰位置

实心轴和输出法兰位置

DLS 系列垂直式减速电机和减速机在订货时需要确定输出轴和输出法兰的位置：

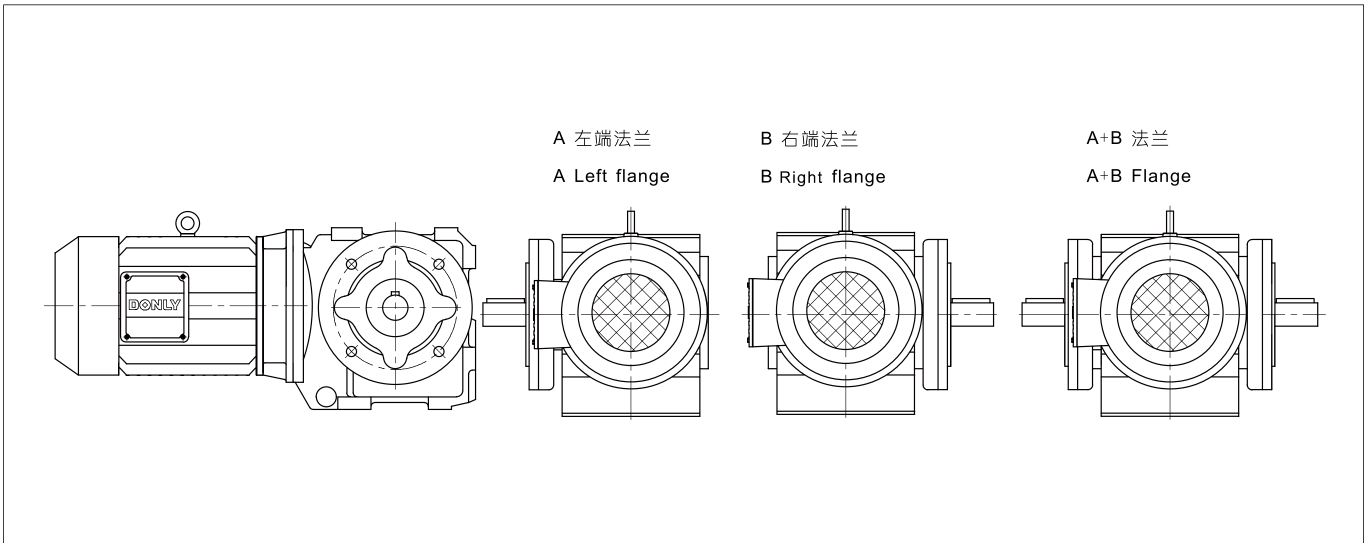
如下图所示（从高速端看）

2.5 Position of output shaft and output flange

Position of the solid output shaft and output flange

In right-angle gear units, you also have to indicate the position of the output shaft and the output flange:

A or B or AB



空心轴输出端位置

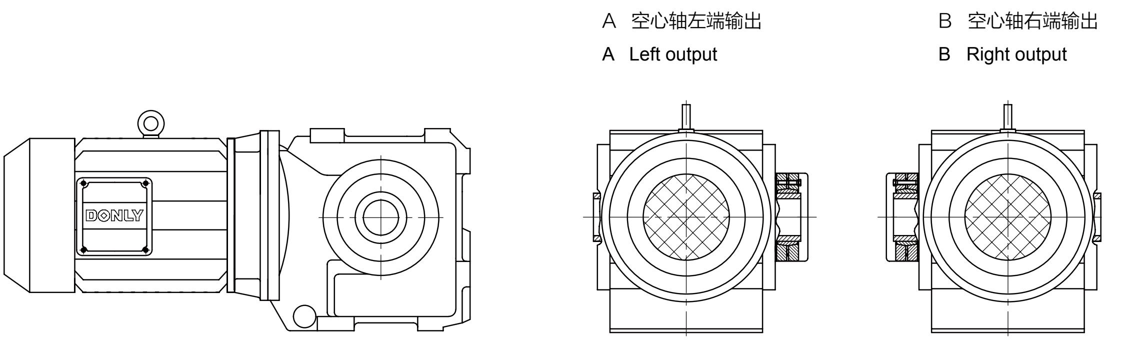
对于空心轴输出，其输出端是指工作轴(用户轴)端。其紧固端（ 如锁紧盘 ）在输出端的反面，如下图所示，如果 A 端为输出端，则 锁紧盘在 B 端位置。

从高速端看：

Position of output hollow shaft

In shaft mounted right-angle gear units with a shrink disk, you also have to indicate whether the A or B end is the output end. the A end is the output end. The shrink disk is located opposite the output end.

In shaft mounted right-angle gear units, the "output end" is equivalent to the "shaft position" of right-angle gear units with solid shaft.

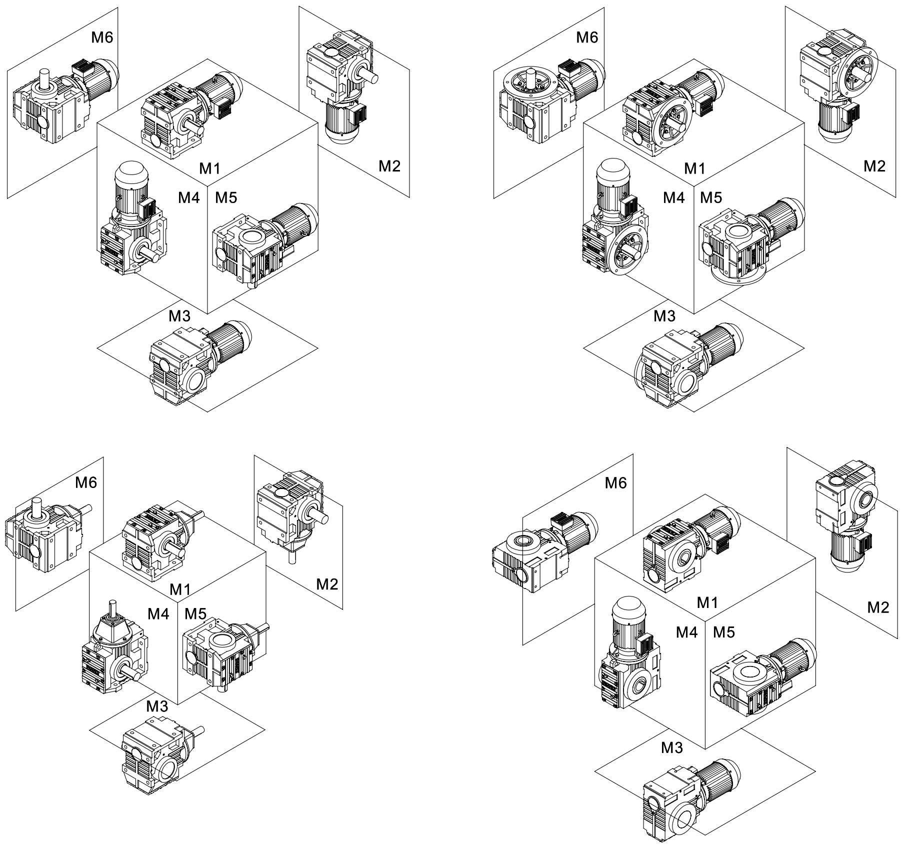


2.6 安装方式

齿轮箱和齿轮电机的安装方式分 M1–M6 六种，具体如下图所示：

2.6 Mounting position

The following figure shows the position of the gear unit in mounting positions M1-M6.



2.7 电机接线盒和接线口位置

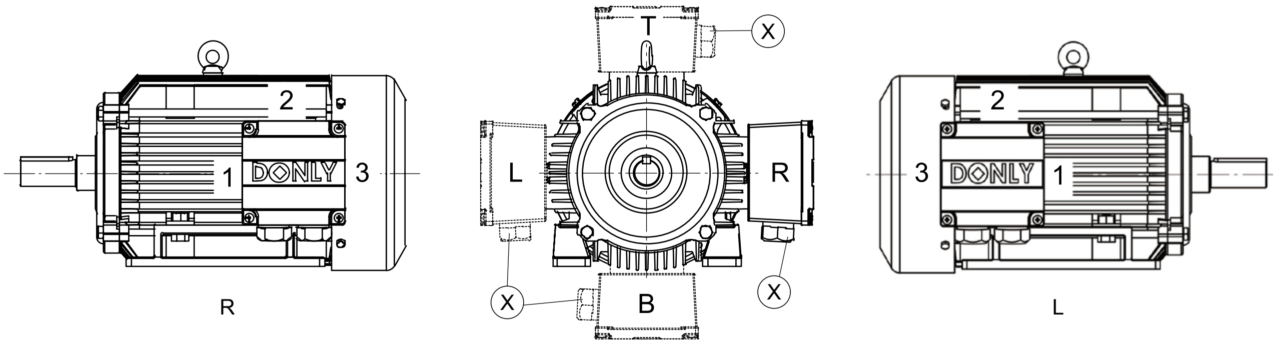
电机的接线盒用 L（左）、R（右）、T（顶）、B（底）四种方式表示，在 M1 安装方式下，见下图。

接线口的位置标注 "X"（标准位置，X 可省略），"1"、"2" 或 "3"。

2.7 Position of terminal box and cable entry

The position of the motor terminal box has so far been specified indicated with L(left), R(right), T(top) or B(bottom) as viewed onto the output shaft.

The position of the cable entry can be selected as well. The positions are "X" (= standard position, X can be omitted), "1","2" or "3".



接线盒和接线口位置
默认时，接线盒位置为 R(右接线)，接线口为 "X"。

在 M3 安装方式时，推荐接线口 "2 "。
注 : 所有接线盒位置均以安装方式 M1 为基准标示。

Position of terminal box and cable entry
Unless indicated otherwise, you will receive the terminal box type R(right) with cable entry "X".
The cable entry "2" can be recommended when the mounting position M3
Note: Based on the mounting position M1

2.8 编码器

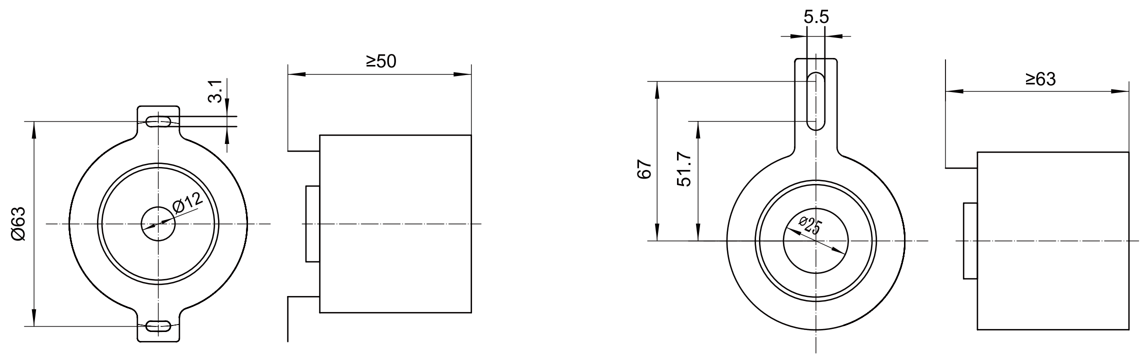
根据需要，减速电机可以提供编码器，若需客供编码器，请按以下 连接接口尺寸配置编码器。

2.8 Encoder

On request, we can provide gearmotors with encoder. Please configure the encoder according to the following connection interface size when the encoder is provided by customers.

H71-H132

H160-H450



2.9 防腐蚀

对于使用环境有防腐蚀要求时，请选用 CP 级防腐蚀措施，其具体如下：

所有运行时处于松开状态的螺栓采用不锈钢材料；

铭牌采用不锈钢材料；
各种电机零件喷面漆；
法兰和轴伸表面涂防腐剂；

采用高质量防腐油封。

2.9 Anti-corrosion protection

On special corrosion protection request, we can provide corrosion protection CP for gear units and gearmotors, which comprises the following measures:
All retaining screws that are loosened during operation are made of stainless steel.
The nameplates are made of stainless steel.
Various motor parts are coated with a top coating.
The flange contact surfaces and shaft ends are treated with a temporary anticorrosion agent.
With high quality anti corrosion seals.

2.10 表面防护

为满足不同应用场合的需求，东力提供了除标准表面防护外的 SP1-SP4 四种防护标准，详见下表：

2.10 Surface protection

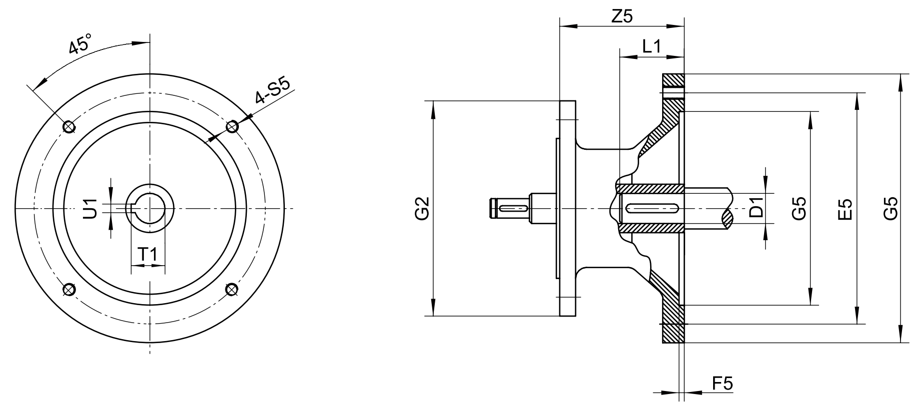
In addition to standard surface protection, DONLY also have the option of surface protection SP1 to SP4 for different applications.

表面防护 Surface protection	漆层 Layers	灰铸铁表面漆膜厚度 NDFT on gray-cast iron [μm]	适用场合 Suitable for
标准 Standard	1× 浸底漆 Dip primer 1× 单组份面漆 One-pack top coat	约 /Approx. 50-70	• 常规环境条件 /Normal environmental conditions • 相对湿度低于 /Relative humidity below: 90% • 表面温度最高 /Surface temperature up to max. : 120℃ • 腐蚀等级 /Corrosivity category: C1
SP1	1× 浸底漆 Dip primer 1× 双组份底漆 Two-pack base coat 1× 双组份面漆 Two-pack top coat	约 /Approx. 120-150	• 低环境影响 /Low environmental impact • 相对湿度最大 /Relative humidity max. : 95% • 表面温度最高 /Surface temperature up to max. : 120℃ • 腐蚀等级 /Corrosivity category: C2
SP2	1× 浸底漆 Dip primer 1× 双组份底漆 Two-pack base coat 1× 双组份面漆 Two-pack top coat	约 /Approx. 170-210	• 中等环境影响 /Medium environmental impact • 相对湿度最大 /Relative humidity up to 100% • 表面温度最高 /Surface temperature up to max. 120℃ • 腐蚀等级 /Corrosivity category: C3
SP3	1× 浸底漆 Dip primer 1× 双组份底漆 Two-pack base coat 1× 双组份面漆 Two-pack top coat	约 /Approx. 220-270	• 高环境影响 /High environmental impact • 相对湿度最大 /Relative humidity up to 100% • 表面温度最高 /Surface temperature up to max. 120℃ • 腐蚀等级 /Corrosivity category: C4
SP4	1× 浸底漆 Dip primer 1× 双组份环氧树脂底漆 Two-pack expoxy base coat 1× 双组份面漆 Two-pack top coat	约 /Approx. 320	• 很高环境影响 /Very high environmental impact • 相对湿度最大 /Relative humidity up to 100% • 表面温度最高 /Surface temperature up to max. 120℃ • 腐蚀等级 /Corrosivity category: C5-1

1. NDFT（正常干膜厚度）= 需要的油漆厚度；最小厚度 = 80% NDFT；最大厚度 = 3×NDFT（ISO 12944-5）
2. 腐蚀等级按照：ISO 12944-2

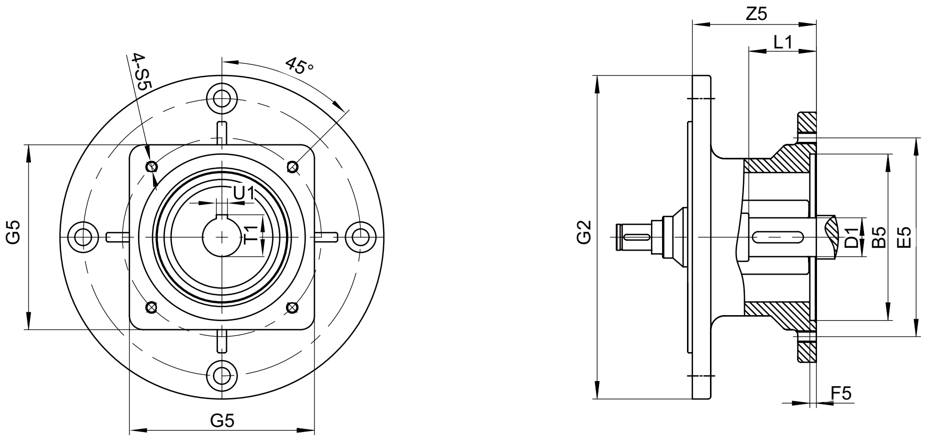
1. NDFT(Nominal dry film thickness)=Required coating thickness; Minimum thickness = 80% NDFT; Maximum thickness = 3×NDFT(ISO 12944-5)
2. Corrosivity category according to: ISO 12944-2

2.11 标准电机连接法兰 2.11 Motor adapter



减速机型号 Gear unit type	接头型号 Adapter type	B5	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1
DLS..37 DLS..47 DLS..57	AM63	95	115	3.5	120	140	M8	65	11	23	12.8	4
	AM71	110	130			160			14	30	16.3	5
	AM80	130	165	4.5		200	M10	71	19	40	21.8	6
	AM90								24	50	27.3	8
DLS..67	AM63	95	115	3.5	160	140	M8	54	11	23	12.8	4
	AM71	110	130			160			14	30	16.3	5
	AM80	130	165	4.5		200	M10	65	19	40	21.8	6
	AM90								24	50	27.3	8
	AM100	180	215	5		250	M12	108	28	60	31.3	8
	AM112											
	AM132S/M	230	265			300		158	38	80	41.3	10
DLS..77	AM63	95	115	3.5	200	140	M8	47	11	23	12.8	4
	AM71	110	130			160			14	30	16.3	5
	AM80	130	165	4.5		200	M10	56	19	40	21.8	6
	AM90								24	50	27.3	8
	AM100	180	215	5		250	M12	97	28	60	31.3	8
	AM112											
	AM132S	230	265			300		119	38	80	41.3	10
	AM132M											
	AM132L											
DLS..87	AM80	130	165	4.5	250	200	M10	54	19	40	21.8	6
	AM90								24	50	27.3	8
	AM100	180	215	5		250	M12	94	28	60	31.3	8
	AM112											
	AM132S	230	265			300		111	38	80	41.3	10
	AM132M											
	AM132L											
	AM160	250	300	6		350	M16	149	42	110	45.3	12
	AM180								48		51.8	14
DLS..97	AM100	180	215	5	300	250	M12	84	28	60	31.3	8
	AM112											
	AM132S	230	265			300		103	38	80	41.3	10
	AM132M											
	AM132L											
	AM160	250	300	6		350	M16	141	42	110	45.3	12
	AM180								48		51.8	14
	AM200	300	350	7		400		178	55		59.3	16

2.12 伺服电机连接法兰 2.12 Servo motor adapter



减速机型号 Gear unit type	接头型号 Adapter type	B5	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1
DLS..37 DLS..47 DLS..57	SF80	70	90	4	120	80	M6	72	19	35	21.8	6
	SF100	95	115			100	M8	101	19	35	21.8	6
	SF130	110	145	7		130	M8	104	22	55	25.3	8
	SF145	130	165			145	M12	104	24	55	27.3	8
DLS..67	SF80	70	90	4	160	80	M6	67	19	35	21.8	6
	SF100	95	115			100	M8	106	19	35	21.8	6
	SF130	110	145	7		130	M8	111	22	55	25.3	8
	SF145	130	165			145	M12	111	24	55	27.3	8
DLS..77	SF80	70	90	4	200	80	M6	58	19	35	21.8	6
	SF100	95	115			100	M8	97	19	35	21.8	6
	SF130	110	145	7		130	M8	100	22	55	25.3	8
	SF145	130	165			145	M12	100	24	55	27.3	8
	SF180-35	114.3	200			180	M12	168	35	79	38.3	10
	SF180-42	114.3	200			180	M12	168	42	113	45.3	12
DLS..87	SF130	110	145	7	250	130	M8	99	22	55	25.3	8
	SF145	130	165			145	M12	99	24	55	27.3	8
	SF180-35	114.3	200			180	M12	160	35	79	38.3	10
	SF180-42	114.3	200			180	M12	160	42	113	45.3	12
	SF190	180	215			200	M12	149	38	75	41.3	10
	SF200	180	215			200	M12	149	42	75	45.3	12
DLS..97	SF180-35	114.3	200	7	300	180	M12	152	35	79	38.3	10
	SF180-42	114.3	200			180	M12	152	42	113	45.3	12
	SF190	180	215			200	M12	141	38	75	41.3	10
	SF200	180	215			200	M12	141	42	75	45.3	12

3.1 选型步骤

DLS..DE3.. 系列减速电机按下述步骤进行选型，确保产品适合实际应用需要。

3.1 Selection steps

The project planning for DLS..DE3..according to following procedure.

步骤 Steps	步骤名称 Procedure	详细说明 Content	选型示例 Example
1	**原始参数** Original data	• 额定输出转速 / Rating work speed: ne[rpm] • 负载功率 / Power of load: Pe[kW] • 运行时间 / Working time per day: h [h/d] • 载荷类型 / Load classification: 轻载、中载、重载 （Unifom,Moderate shock, Heavy shock） • 每小时起动次数 /Start times； Z[1/h] • 作用在输轴上的径向力 / Overhung force at shaft： FR • 径向力的作用点位置距竤肩距离 /The distance between the overhung force point and shaft shoulder:X • 作用在输出轴上的轴向力 / Axial force at shaft： FAl • 环境温 i/Ambient temperature • 其他要求：带制动器，防腐蚀	n_e =19 rpm P_e =2.3 kW h=16 h/d 轻载 Uniform load Z =30 1/h FR=6000 N X=60 FAl=5500 N 35° C
		↓	
2	**确定效率 η** Determine efficiency	按输入转速 1500rpm 和额定输出转速 ne 按下式计算速比 According to following formula calculating ratio i=1500/ne 按 3.2 章根据速比选定效率 / Determine efficiency from chapter3.2 η	i=1500/n_e=1500/19=78.9 η=0.88
		↓	
3	**计算功率 Pm** **Calculated power**	按下式计算电机功率 / Calculate power of motor according to following: Pm=Pe/η	P_m = Pe/η =2.3/0.88 =2.61kW
		↓	
4	**确定服务系数 fl** Determine service factor	根据负载类型按 3.3 章说明选定工况系数 F Select load factor F according to chapters.3.3 根据每小时起停次数按 3.4 说明选定起动系数 C Select start times factor C according to chapters.3.4 根据环境温度按 3.5 说明选定温度系数 A Select ambient temperature factor C according tochapter3.5 按计算服务系数 fl,/ Calculate service factor fl: fl=F x C x A	按表 3.3-2: h=16h/d 轻载 ⟹ F=1.18 按表 3.4: Z =30 ⟹ C=1.18 按表 3.5: 35°C ⟹ A=1.3 fl = F x C x A =1.18x1.18x1.3 = 1.81
		↓	
5	**初选减速电机** **型号规格** Selecting size	根据 / According to P≥Pm 和 fl≤ fB 及 ne 原则从选型表中选定减速电机的机座号（含电机的规格）及转速 /nr Selecting size and output speed of gearmotor from selection table	按 P_m = 2.61, n_e =19, f_l=1.81 查选型表 / From selection table: DLS97 DE3-100L2-4 P=3kW, n_e=17 rpm, fB=2.2 符合要求 /Qualified
		↓	
6	**校核** Check overhung and axial force	如有必要 / If necessary 按 3.6 章说明校核径向力和轴向力 Check overhung and axial forces according to chapter 3.6	查选型表 / From selection table FRa=36600N FRp=FRa=36600N FAp= FRa0.5=36600 0.5=18300N 查表 3.6 a= 325.6, b=255.6 FX=FRP$\frac{a}{b+x}$ =36600x$\frac{325.6}{255.6+60}$ =37760N 校核 Check： 径向力 Overhung force： FR=6000<FRx=37760 符合 Pass 轴向力 Axial force： FAl = 5500<FAp=18300 符合 Pass
		↓	
7	**确定型号** Determine type and size	根据实际负载需要，按 2.1 产品型号表示和 2.2 订货参数说明确定最终型号规格 Depending on the actual need of load, Determine the type and size of gearmotor according to chapter 2.1 product designations and chapter 2.2 additional order information	根据上述计算结果和其他要求 Determine product designations according to above calculation and other requirements ⟹ DLS97 DE3-100L2-4/E n_a=17 rpm CP级防腐蚀

3.2 效率 / 3.2 Efficiency

速比范围 /Ratio range	效率 /Efficiency η
<25	约 Approx. 0.96
25-50	约 Approx. 0.93
>50	约 Approx. 0.88

3.3 载荷系数 F / 3.3 Load factor F

表 3.3−1 / Table 3.3-1

应用 Application field		F 每天工作小时 Operating time per day		
		8h/d	16h/d	24h/d
建筑业	**Construction Industry**			
搅拌机	Blender	1.25	1.5	1.75
水泥厂	Cement plant	1.5	1.75	2
灰泥喷射机	Mortar spraying machine	1	1	1.25
酿造和燕馏	**Hrewage and distillation**			
麦芽菜池	Mash tubs	1	1	1.25
装瓶机	Bottling machine	1	1	1.25
电梯	**Elevator**			
提升机	Bucket elevator	1	1.25	1.5
货运电梯	Freight elevator	1	1.25	1.5
自动扶梯	Escalators	1	1	1.25
过滤机	**Filter**	1	1.25	1.5
发电机	**Generator**	1	1	1.25
木材和塑料工业	**Lumber and plastic Industry**			
电锯的主动力	Main drive for saws	1.5	1.75	2
电锯的进给动力	Feed drive for saws	1	1.25	1.5
砍木机	Chopping machine	1.5	1.75	2
胶合板胶机	Veneer gluing machine	1	1	1.25
钻孔机	Drilling machine	1	1	1.25
挤压机	Extruder	1.25	1.5	1.75
机床设备	**Machine tool equipment**			
平面刨床、龙门刨床	Surface planer, Gantry planer	1.25	1.5	1.75
弯轧机	Bending roll	1.25	1.5	1.75
主动力、进给动力	Main driver, feed driver	1	1.25	1.5
进给和辅助动力	Feed and auxiliary drive	1	1	1.25
压力机	Presses	1.75	2	2
折弯机	Folding machine	1.5	1.75	2
剪板机	Plate shear	1.75	2	2
包装机械	**Packing machine**			
纸板堆叠机械	Cardbard stacking machine	1.25	1.5	1.75
打包机	Wrapping machine	1	1	1.25
压缩机	**Compressor**			
离心式	Centrifugal	1	1.25	1.5
轴流式	Axial flow	1	1.25	1.5
混合机	**Mixer for**			
均匀密度	Uniform media	1	1.5	1.25
不均匀密度	Non-uniform media	1	1.25	1.5
钢铁工业	**Iron and steel industry**			
拉线机	Wire drawing machine	1.25	1.5	1.75
绕线机	Winding machine	1	1.25	1.5
集中驱动辊道（无反转）	Group driver roller table (one-way rotation)	1.25	1.5	1.75
单独驱动辊道（无反转）	Individual driver roller table (one-way rotation)	1.5	1.75	5
集中驱动辊道（有反转）	Group driver roller table (two-way rotation)	1.75	2.25	2.5
单独驱动辊道（有反转）	Individual driver roller table (two-way rotation)	2	2.5	2.75
磨机	**Mill**			
球磨机、棒磨机	Ball mill, rod mill	1.75	1.75	1.75
锤磨机、粉磨机	Hammer mill, powder mill	1.5	1.75	2

应用 Application field		F 每天工作小时 Operating time per day		
		8h/d	16h/d	24h/d
泵	**Pump**			
离心式	Centrifugal	1	1.25	1.5
旋转型、齿轮型	Rotary type, Gear type	1	1	1.25
叶轮型、叶片型	Impeller type, Vane type	1	1	1.25
多缸活塞泵	Multi cylinder piston pump	1	1.25	1.5
螺旋泵	Screw pump	1	1.25	1.5
搅拌机	**Agitators for media with**			
纯液体（均匀密度）	Pure liquid (uniform density)	1	1	1.25
液体（非均匀密度）	Liquid (non-uniform density)	1	1.25	1.5
液体和固体	Liquid and solid	1.25	1.5	1.75
输送机	**Conveyor**			
平稳加载	Stable load	1	1	1.25
重载链和螺旋输送	Heavy duty chain and screw conveyor	1	1.25	1.5
振动输送机	Vibratory conveyor	1.5	1.75	1.75
风扇	**Fans**			
离心式风扇	Centrifugal	1	1	1.25
工业风扇	Industrial fans	1	1.25	1.5
冷却塔动力	Cooling Tower drive	1.75	1.75	1.75
食品工业	**Food industry**			
粉碎机	Disintegrator	1.75	2	2.25
甜菜切片机、揉面机	Beet slicer, kneader	1.25	1.5	1.75
碾肉机	Meat grinder	1.25	1.5	1.5
填充机	Filling machine	1	1	1.25
和面机	Dough mixer	1	1.25	1.5
挤压机	Extruder	1.25	1.5	1.75
甘蔗切碎机	Sugar cane chooper	1.75	1.75	1.75
榨糖机	Sugar mill	1.75	1.75	1.75
烤面包机	Toaster	1.25	1.25	1.25
水处理	**Water treatment**			
普通通风装置	Common aerator	1.5	1.5	1.5
旋转木马式通风装置	Carrousel aerator	1.75	1.75	1.75
条栅式筛子、搜集器	Bar screen, collector	1	1	1.25
螺旋泵	Screw pump	1	1.25	1.5
筛子	**Screen**			
旋转式（石头，砂）	Rotary(stone, gravel)	1	1.25	1.5
行进式吸水机	Travelling water scooping machine	1	1	1.25
辅助动力伺服系统	**Auxiliary drive, servo system**			
微动装置	Microinching equipment	1	1	1
农用机械	**Agricultural machinery**			
施肥平土机	Manure scraper	1	1	
收割机	Reaping machine	1	1	
纺织工业	**Textile industry**			
织机	Loom	1.25	1.5	1.75
纺纱机	Spinning machine	1	1	1.25
洗涤机	Washer	1	1.25	1.5
印刷和制纸技术	**Printing and papermaking technology**			
切割机	Cutter	1	1.25	1.5
卷筒	Reel	1	1	1.25
打包进料机	Bale feeder	1	1.25	1.25

表 3.3-2

Table 3.3-2

载荷类型 /Load Classification	工况系数 /Working factor F		
	8h/d	16h/d	24h/d
平稳载荷 /Uniform load: (加速系数 Acceleration factor $a < 0.2$)	1	1.18	1.32
中等冲击载荷 /Moderate shock load:(加速系数 Acceleration factor $0.2 < a < 3$)	1.25	1.5	1.7
重冲击载荷 /Heavy shock load:(加速系数 Acceleration factor $3 < a < 10$)	1.7	2	2.24

加速系数 a

Acceleration factor a

加速系数 / Mass acce leration factor $a = \dfrac{\text{所有外部质量的转动惯量 / All external mass moments of inertia} \quad J_X}{\text{所有质量在电机轴 / Mass moment of inertia on the motor end} \quad J_m}$

所有外部转动惯量是指工作机和齿轮箱的转动惯量，折算到电机轴的值。其按下式计算：

All external mass moments of inertia” are the mass moments of inertia of the driven machine and the gear unit, scaled down to the motor speed. The calculation for scaling down to motor speed is performed using the following formula:

$$J_X = J \cdot \left(\frac{n}{n_M}\right)^2$$

J_X= 折算到电机轴的转动惯量
J= 输出转速对应的转动惯量
n= 齿轮箱输出转速
n_M= 电机转速

J_X=Mass moment of inertia scaled down to the motor shaft
J= Mass moment of inertia with reference to the output speed of the gear unit
n=Output speed of the gear unit
n_M=Motor speed

电机的转动惯量包括电机、制动器、飞轮（Z 风扇）等的转动惯量。

“Mass moment of inertia at the motor end” is the mass moment of inertia of the motor and, if installed, the brake and the flywheel fan(Z fan).

3.4 起动次数系数 C

起动次数是指每小时减速电机需要起动的次数，包含正反转和制动，正反转按两次起动折算，制动按1.5次起动折算。修正系数见表3.4

3.4 Starting times factor C

Starting factor determined by starting times per hour which including starting, reverse and braking. 1 braking=1.5 starting, 1 reverse=2 starting.
The factor C refers to following table Table 3.4

表 3.4

Table 3.4

每小时启动次数 Starting times per hour	＜ 4	4-8	9-15	16-32	33-63	64-125	126-250
C	1	1.06	1.12	1.18	1.25	1.4	1.5

3.5 环境温度系数 A

环境温度系数 A 取决于减速机的环境温度，具体按表 3.5 直接选取。

3.5 Ambient temperature factor A

The ambient temperature factor A is depending on the ambient temperature. It can be found in table 3.5 Table 3.5

表 3.5

Table 3.5

环境温度 Ambient temperature	<20°C	25°C	30°C	35°C	40°C	45°C	50°C
环境温度系数 Factor A	1	1.1	1.2	1.3	1.5	1.7	1.9

3.6 径向力和轴向力校核 / 3.6 Check overhung and axial forces

许用径向力 FR_P / Permitted overhung load FR_P

地脚式安装的许用径向力可由选型表直接查出，法兰安装的减速电机，其输出轴的许用径向力为选型表中值的 50%。

The permitted overhung loads FRa for the output shafts of foot-mounted gear units with a solid shaft are listed in the selection tables for gearmotors. Flange-mounted gearmotors: A maximum of 50% of the overhung load FRa specified in the selection tables for torque transmission via flange mounting are permitted.

地脚安装 /Foot-mounted：$FR_P=FR_a$
法兰安装 /Flange-mounted：$FR_P=FR_a\times0.5$

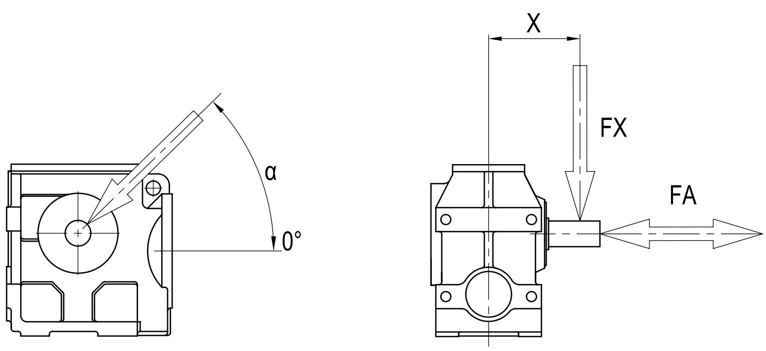
许用轴向力 FA_P / Permitted axial load FA_P

如果输出轴上没有径向力，其许用轴向力为选型表中给定许用径向力的 50%。

If there is no overhung load, then an axial force FAp (tension or compression) amounting to 50 % of the overhung load given in the selection tables is permitted.

$$FA_P=FR_a\times0.5$$

径向力计算 FR / Calculation of overhung force FR



FX = 在 X 点的许用径向力 / Permitted overhung load at point X [N]
FA = 许用轴向力 / Permitted axial load [N]

$$FX=FR_P\times\frac{a}{b+X}$$

表 3.6 Table 3.6

齿轮箱型号 / Gear unit type	a[mm]	b[mm]
DLS37	118.5	98.5
DLS47	126.5	101.5
DLS57	150	120
DLS67	179.5	144.5
DLS77	219.5	174.5
DLS87	270.6	210.6
DLS97	325.6	255.6

径向力校核 / Check overhung force

$$FR\leqslant FX$$

轴向力校核 / Check axial force

$$FA\leqslant FA_P$$

3.7 DLS..S.. 双轴型减速机选型

DLS..S.. 系列双轴型减速机，因不带电动机，其选型主要根据转矩和减速比进行，详细请参考下述步骤进行选型。

3.7 Project planning for DLS..S.. gear units

Project planning for DLS.S.. Double shaft gear units are depending on the torque and ratio. Selecting it refers to following procedure.

步骤 Steps	步骤名称 Procedure	详细说明 Content	选型示例 Example
1	**原始参数** Original data	• 额定输入转速 / Rating work speed：n1[rpm] • 额定输出转速 / Rating work speed：n2[rpm] • 负载转矩 / Power of load：Me[N.m] • 运行时间 Working time per day: h[h/d] • 载荷类型 / Load classification：轻载、中载、重载 (Uniform, Moderate shock, Heavy shock) • 每小时起动次数 / Start times：Z[1/h] • 作用在输出轴上的径向力 / Overhung force at shaft: FR • 径向力的作用点位置距轴肩距离 / The distance between the overhung force point and shaft shoulder: X • 作用在输出轴上的轴向力 / Axial force at shaft：FAI • 其他要求：	n1 =1500 rpm n2 =20 rpm Me=650N.m h=8/24h/d 钢铁工业的集中驱动辊道 (无反转)/ Group driver roller table (one rotation) Z =5 1/h FR=6000 N X=60 FAI=5500 N
↓			
2	**计算转速比 i** Ration	根据输入输出转速计算减速比 / Calculating ration: i = n1/n2	i=n1/n2=1500/20 =75
↓			
3	**确定服务系数 fl** Determine service factor	根据负载类型按 3.3 章说明选定工况系数 F Select load factor F according to chapter 3.3 根据每小时起停次数按 3.4 说明选定起动系数 C Select start times factor C according to chapter 3.4 按计算服务系数 fl, / Calculate service factor fl: fl=FxC	按表 3.3-1： h=24h/d 集中驱动辊道 (无反转) Group driver roller table (one rotation) ⟹ F=1.75 按表 3.4: Z=5 ⟹ C1.06 fl =FxC = 1.75x1.06 =1.855
↓			
4	**计算所需转 Mr** Calculating torque eeded	按下式计算所需转矩 / Calculating torque needed Mr= Me× fl	Mr = Me× fl = 650x1.855 = 1206
↓			
5	**初选减速电机型号规格** Selecting size	根据 / According to $M \geq M_r$ 和 i 原则从选型表中选定减速电机的机座号及减速比 i Selecting size and ration of gear unit from selection table	按 M>1206, i =75 查选型表 / From selection table: DLS87 M=1820, i=78.57 符合要求 / Qualified
↓			
6	**校核** Check overhung and axial force	如有必要 / If necessary 按 3.6 章说明校核径向力和轴向力 Check overhung and axial forces according to chapter 3.6	查选型表 / From selection table FR=28700N FRp=FR=28700N FAp= FR x 0.5=28700 x 0.5=14350N 查表 3.6 a=270.6, b=210.6 $FX=FRp \frac{a}{b+x}=28700 \times \frac{270.6}{210.6+60}=28700N$ 校核 / Check： 径向力 / Overhung force: FR=6000 FX = 28700 符合 Pass 轴向力 / Axial force: FA=5500FAp= 14350 符合 Pass
↓			
7	**确定型号** Determine type and size	根据实际负载需要，按 2.1 产品型号描述和 2.2 订货参数说明确定最终型号规格 Depending on the actual need of load, Determine the type and size of gearmotor according to chapter 2.1 Product model description and 2.2 Ordering parameter description	根据上述计算结果和其他要求 Determine product designations according to above calculation and other requirements ⟹ DLS87 S2 i=78.57

4.1 DLS..DE3.. 减速电机技术参数表 / 4.1 Selesction tables of DLS..DE3..gearmotors

功率 Power Pm [Kw]	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	减速比 Ratio I	径向力 Overhung load FRa [N]	服务系数 Service factor fB	规格 Size		重量 Weight [kg]	尺寸图页码 Page
0.12	0.12	4760	11501	28700	0.84	DLS97R57	DE3-63M1-4	170	39
	0.13	4460	10138	32800	0.90	DLSF97R57	DE3-63M1-4	200	39
	0.15	3740	8856	34200	1.07	DLSA97R57	DE3-63M1-4	165	39
	0.17	3240	7663	34800	1.23	DLSAF97R57	DE3-63M1-4	190	39
	0.20	2790	6752	27200	0.82	DLS87R57	DE3-63M1-4	110	39
	0.22	2430	6003	27800	0.94	DLSF87R57	DE3-63M1-4	130	39
	0.26	2050	5172	28500	1.11	DLSA87R57	DE3-63M1-4	105	39
	0.29	1820	4594	28800	1.25	DLSAF87R57	DE3-63M1-4	120	39
	0.34	1530	3866	29200	1.49				
	0.35	1520	3826	9700	0.84				
	0.40	1320	3327	12500	0.96				
	0.52	1280	2553	11600	0.97				
	0.63	1190	2121	12900	1.04	DLS77R37	DE3-63M1-4	59	39
	0.68	1080	1956	14100	1.15	DLSF77R37	DE3-63M1-4	68	39
	0.70	1030	1903	14300	1.20	DLSA77R37	DE3-63M1-4	58	39
	0.77	935	1729	14700	1.33	DLSAF77R37	DE3-63M1-4	65	39
	0.93	775	1436	15200	1.60				
	1.0	685	1275	15200	1.81				
	1.1	635	1230	8160	0.82	DLS67R37	DE3-63M1-4	39	39
	1.3	510	1022	8720	1.02	DLSF67R37	DE3-63M1-4	46	39
	1.5	445	895	9280	1.17	DLSA67R37	DE3-63M1-4	40	39
						DLSAF67R37	DE3-63M1-4	45	39
	1.4	465	918	9580	1.12				
	1.8	380	753	9860	1.37	DLS67R37	DE3-63M1-4	39	39
	2.2	295	607	10100	1.76	DLSF67R37	DE3-63M1-4	46	39
	2.5	265	538	10300	1.96	DLSA67R37	DE3-63M1-4	40	39
	2.7	235	491	10400	2.2	DLSAF67R37	DE3-63M1-4	45	39
	3.4	195	397	10500	2.7				
	4.3	161	311	10500	3.2				
	2.1	315	639	6930	0.94				
	2.2	295	599	7290	1.00				
	2.5	260	530	7540	1.13	DLS57R17	DE3-63M1-4	20	39
	2.9	225	466	7750	1.31	DLSF57R17	DE3-63M1-4	24	39
	3.2	200	414	7880	1.48	DLSA57R17	DE3-63M1-4	20	39
	3.7	180	361	7980	1.64	DLSAF57R17	DE3-63M1-4	23	39
	4.3	152	310	8070	1.94				
	4.7	146	283	8090	2.0				
	3.2	200	414	5210	0.85	DLS47R17	DE3-63M1-4	17	39
	3.7	180	361	5320	0.94	DLSF47R17	DE3-63M1-4	20	39
	4.3	155	310	5450	1.10	DLSA47R17	DE3-63M1-4	18	39
	5.6	121	237	5570	1.40	DLSAF47R17	DE3-63M1-4	19	39
	7.2	94	184	5660	1.81				
	6.6	103	203	3000	0.89				
	7.1	95	187	3000	0.97	DLS37R17	DE3-63M1-4	14	39
	8.0	84	166	3000	1.10	DLSF37R17	DE3-63M1-4	15	39
	9.6	72	139	3000	1.28	DLSA37R17	DE3-63M1-4	13	39
	12	61	114	3000	1.51	DLSAF37R17	DE3-63M1-4	15	39
	13	54	101	3000	1.70				
	4.1	156	207.00	8050	1.89	DLS57	DE3-63M-6	17	47
	4.5	146	190.40	8090	2.0	DLSF57	DE3-63M-6	21	50
	5.2	128	163.06	8150	2.3	DLSA57	DE3-63M-6	17	48
	6.0	113	141.47	8150	2.6	DLSAF57	DE3-63M-6	20	50
	4.1	151	207.00	5490	1.13	DLS47	DE3-63M-6	14	43
	4.5	141	190.40	5540	1.21	DLSF47	DE3-63M-6	17	46
	5.2	121	163.06	5610	1.40	DLSA47	DE3-63M-6	15	44
	6.0	105	141.47	5660	1.60	DLSAF47	DE3-63M-6	16	46
	6.4	102	207.00	5680	1.67				
	7.0	95	190.40	5700	1.79	DLS47	DE3-63M1-4	14	43
	8.2	81	163.06	5740	2.1	DLSF47	DE3-63M1-4	17	46
	9.4	72	141.47	5780	2.3	DLSA47	DE3-63M1-4	15	44
	10	70	132.30	5790	2.4	DLSAF47	DE3-63M1-4	16	46
	11	60	116.46	5810	2.8				

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selesction tables of DLS..DE3..gearmotors

功率 Power Pm [Kw]	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	减速比 Ratio I	径向力 Overhung load FRa [N]	服务系数 Service factor fB	规格 Size	重量 Weight [kg]	尺寸图 页码 Page
0.12	5.7	109	149.47	3000	0.84	DLS37 DE3-63M-6	11	40
	6.7	94	127.41	3000	0.97	DLSF37 DE3-63M-6	12	42
	7.7	83	110.00	3000	1.06	DLSA37 DE3-63M-6	10	41
	8.3	77	102.60	3000	1.13	DLSAF37 DE3-63M-6	12	42
	9.5	68	89.82	3000	1.26			
	8.2	80	162.86	3000	1.15			
	8.9	73	149.47	3000	1.26	DLS37 DE3-63M1-4	11	40
	10	64	127.41	3000	1.42	DLSF37 DE3-63M1-4	12	42
	12	56	110.00	3000	1.57	DLSA37 DE3-63M1-4	10	41
	13	53	102.60	3000	1.64	DLSAF37 DE3-63M1-4	12	42
	15	47	89.82	3000	1.83			
	16	44	84.26	3000	1.93			
	18	39	74.48	3000	2.2			
	20	36	66.15	3000	2.3			
	23	37	57.86	3000	2.2			
	24	36	55.42	3000	2.3			
	25	36	53.10	3000	2.2			
	29	30	45.27	3000	2.7			
	34	27	39.08	3000	3.0	DLS37 DE3-63M1-4	11	40
	36	24	36.45	3000	3.3	DLSF37 DE3-63M1-4	12	42
	42	22	31.91	3000	3.5	DLSA37 DE3-63M1-4	10	41
	44	21	29.94	3000	3.6	DLSAF37 DE3-63M1-4	12	42
	50	18	26.46	3000	4.1			
	57	16	23.50	3000	4.6			
	65	14	20.57	3000	3.7			
	68	14	19.69	3000	3.7			
	70	14	18.88	3000	3.7			
	83	12	16.09	2870	4.2			
0.18						DLS87R57 DE3-63M2-4	110	39
	0.29	2950	4594	27500	0.77	DLSF87R57 DE3-63M2-4	130	39
	0.34	2510	3866	27500	0.91	DLSA87R57 DE3-63M2-4	105	39
						DLSAF87R57 DE3-63M2-4	120	39
	0.42	2140	3166	27800	1.07			
	0.49	1780	2691	28900	1.28	DLS87R57 DE3-63M2-4	105	39
	0.54	1580	2433	29100	1.44	DLSF87R57 DE3-63M2-4	130	39
	0.62	1360	2138	29400	1.68	DLSA87R57 DE3-63M2-4	105	39
	0.71	1190	1875	29500	1.92	DLSAF87R57 DE3-63M2-4	120	39
	0.79	1070	1677	29600	2.1			
						DLS77R37 DE3-63M2-4	59	39
	0.92	1250	1436	12200	0.99	DLSF77R37 DE3-63M2-4	68	39
	1.0	1120	1275	13300	1.11	DLSA77R37 DE3-63M2-4	58	39
						DLSAF77R37 DE3-63M2-4	65	39
	1.3	945	1058	13900	1.31			
	1.5	785	879	14700	1.58	DLS77R37 DE3-63M2-4	59	39
	1.6	740	832	15200	1.68	DLSF77R37 DE3-63M2-4	68	39
	1.9	620	696	15600	2.0	DLSA77R37 DE3-63M2-4	58	39
	2.1	550	628	15900	2.3	DLSAF77R37 DE3-63M2-4	65	39
	2.3	490	565	16000	2.5			
	1.8	625	753	8060	0.83	DLS67R37 DE3-63M2-4	39	39
	2.2	470	607	8920	1.11	DLSF67R37 DE3-63M2-4	46	39
	2.5	425	538	9330	1.22	DLSA67R37 DE3-63M2-4	40	39
	2.7	380	491	9970	1.37	DLSAF67R37 DE3-63M2-4	45	39
	3.3	315	397	10100	1.65			
	2.8	360	466	6630	0.83			
	3.2	320	414	7040	0.94			
	3.7	285	361	7350	1.05	DLS57R17 DE3-63M2-4	20	39
	4.3	245	310	7600	1.22	DLSF57R17 DE3-63M2-4	24	39
	4.7	230	283	7690	1.30	DLSA57R17 DE3-63M2-4	20	39
	5.6	197	237	7860	1.52	DLSAF57R17 DE3-63M2-4	23	39
	6.3	173	212	7950	1.73			
	7.2	143	184	8010	2.1			

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selesction tables of DLS..DE3..gearmotors

功率 Power Pm [Kw]	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	减速比 Ratio I	径向力 Overhung load FRa [N]	服务系数 Service factor fB	规格 Size	重量 Weight [kg]	尺寸图 页码 Page
0.18	5.6 7.2 7.7 8.6 9.7	191 148 138 126 112	237 184 172 154 137	5200 5380 5470 5530 5590	0.89 1.15 1.23 1.35 1.52	DLS47R17 DE3-63M2-4 DLSF47R17 DE3-63M2-4 DLSA47R17 DE3-63M2-4 DLSAF47R17 DE3-63M2-4	17 20 18 19	39 39 39 39
	4.3 4.6 5.2	235 220 199	201.16 189.00 168.00	10400 10400 10400	2.2 2.4 2.6	DLS67 DE3-71M1-6 DLSF67 DE3-71M1-6 DLSA67 DE3-71M1-6 DLSAF67 DE3-71M1-6	37 40 37 40	51 54 52 54
	4.2 4.6 5.3 6.1 6.6	245 225 190 165 154	207.00 190.40 163.06 141.47 132.30	7670 7760 7900 7990 8000	1.20 1.31 1.55 1.79 1.92	DLS57 DE3-71M1-6 DLSF57 DE3-71M1-6 DLSA57 DE3-71M1-6 DLSAF57 DE3-71M1-6	25 27 24 27	47 50 48 50
	6.4 7.0 8.1 9.4	158 146 127 112	207.00 190.40 163.06 141.47	8010 8050 8120 8160	1.87 2.0 2.3 2.6	DLS57 DE3-63M2-4 DLSF57 DE3-63M2-4 DLSA57 DE3-63M2-4 DLSAF57 DE3-63M2-4	17 21 17 20	47 50 48 50
	4.2 4.6 5.3 6.1 6.6	215 200 170 160 149	207.00 190.40 163.06 141.47 132.30	5420 5420 5470 5420 5470	0.79 0.85 1.00 1.05 1.13	DLS47 DE3-71M1-6 DLSF47 DE3-71M1-6 DLSA47 DE3-71M1-6 DLSAF47 DE3-71M1-6	21 24 22 24	43 46 44 46
	6.4 7.0 8.1 9.4 10 11 14 15 18 19 19 20	153 141 123 110 100 92 80 72 62 59 59 55	207.00 190.40 163.06 141.47 132.30 116.46 97.44 87.11 75.25 71.46 70.56 65.73	5440 5490 5570 5630 5660 5700 5750 5770 5790 5780 5770 5760	1.11 1.21 1.38 1.53 1.68 1.83 2.1 2.3 2.7 2.8 2.6 2.8	DLS47 DE3-63M2-4 DLSF47 DE3-63M2-4 DLSA47 DE3-63M2-4 DLSAF47 DE3-63M2-4	14 17 15 16	43 46 44 46
	8.9 10 12 13 15 16	111 99 81 77 69 66	149.47 127.41 110.00 102.60 89.82 84.26	3000 3000 3000 3000 3000 3000	0.83 0.92 1.09 1.13 1.25 1.29	DLS37 DE3-63M2-4 DLSF37 DE3-63M2-4 DLSA37 DE3-63M2-4 DLSAF37 DE3-63M2-4	11 12 10 12	40 42 41 42
	18 20 23 24 25 29 34 36 42 44 50 56 64 67 70 82	59 55 56 55 53 45 39 38 33 31 28 25 22 22 22 19	74.48 66.15 57.86 55.42 53.10 45.27 39.08 36.45 31.91 29.94 26.46 23.50 20.57 19.69 18.88 16.09	3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 2980 2940 2810	1.42 1.51 1.46 1.47 1.51 1.80 2.1 2.1 2.3 2.4 2.6 2.9 2.4 2.4 2.4 2.6	DLS37 DE3-63M2-4 DLSF37 DE3-63M2-4 DLSA37 DE3-63M2-4 DLSAF37 DE3-63M2-4	11 12 10 12	40 42 41 42
	89 102 117 124	17 14 14 12	14.97 12.96 11.35 10.64	2800 2650 2550 2500	2.9 3.4 3.4 3.9	DLS37 DE3-63M2-4 DLSF37 DE3-63M2-4 DLSA37 DE3-63M2-4 DLSAF37 DE3-63M2-4	11 12 10 12	40 42 41 42

4.1 DLS..DE3.. 减速电机技术参数表 4.1 Selesction tables of DLS..DE3..gearmotors

功率 Power Pm [Kw]	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	减速比 Ratio I	径向力 Overhung load FRa [N]	服务系数 Service factor fB	规格 Size		重量 Weight [kg]	尺寸图页码 Page
0.25	0.50	2470	2691	27500	0.92				
	0.56	2270	2433	28000	1.00	DLS87R57	DE3-71M1-4	118	39
	0.63	1920	2138	28500	1.19	DLSF87R57	DE3-71M1-4	127	39
	0.72	1690	1875	28900	1.35	DLSA87R57	DE3-71M1-4	109	39
	0.81	1540	1677	29100	1.48	DLSAF87R57	DE3-71M1-4	127	39
	1.4	900	964	29800	2.5				
	1.3	1340	1058	12100	0.93				
	1.5	1120	879	13300	1.11	DLS77R37	DE3-71M1-4	70	39
	1.6	1010	832	14400	1.23	DLSF77R37	DE3-71M1-4	76	39
	1.9	830	696	14900	1.49	DLSA77R37	DE3-71M1-4	70	39
	2.2	775	628	15200	1.60	DLSAF77R37	DE3-71M1-4	76	39
	2.4	675	565	15600	1.84				
	2.5	605	538	7420	0.86	DLS67R37	DE3-71M1-4	46	39
	2.8	545	491	8970	0.95	DLSF67R37	DE3-71M1-4	50	39
	3.4	455	397	9390	1.14	DLSA67R37	DE3-71M1-4	46	39
	4.4	350	311	9750	1.49	DLSAF67R37	DE3-71M1-4	50	39
	4.9	310	276	9990	1.68				
	4.4	340	310	6720	0.87				
	4.8	310	283	6950	0.95	DLS57R17	DE3-71M1-4	27	39
	5.7	265	237	7330	1.11	DLSF57R17	DE3-71M1-4	28	39
	6.4	245	212	7530	1.20	DLSA57R17	DE3-71M1-4	25	39
	7.4	210	184	7660	1.40	DLSAF57R17	DE3-71M1-4	28	39
	7.9	200	172	7810	1.48				
	9.9	159	137	7990	1.86				
						DLS67	DE3-80M2-8	43	51
	3.5	405	189.00	9770	1.28	DLSF67	DE3-80M2-8	46	54
	3.9	360	168.00	9980	1.44	DLSA67	DE3-80M2-8	42	52
						DLSAF67	DE3-80M2-8	46	54
	4.3	330	201.16	10100	1.58	DLS67	DE3-71M2-6	38	51
	4.6	315	189.00	10100	1.65	DLSF67	DE3-71M2-6	42	54
	5.2	280	168.00	10300	1.86	DLSA67	DE3-71M2-6	38	52
	6.1	240	142.80	10300	2.2	DLSAF67	DE3-71M2-6	42	54
	6.7	220	201.16	10400	2.4				
	7.2	205	189.00	10500	2.5	DLS67	DE3-71M1-4	36	51
	8.1	190	168.00	10500	2.7	DLSF67	DE3-71M1-4	40	54
	9.5	164	142.80	10600	3.2	DLSA67	DE3-71M1-4	36	52
	10	155	129.11	10600	3.4	DLSAF67	DE3-71M1-4	40	54
	12	130	112.00	10700	4.0				
	4.2	330	207.00	7080	0.89	DLS57	DE3-71M2-6	26	47
	4.6	310	190.40	7260	0.95	DLSF57	DE3-71M2-6	28	50
	5.3	265	163.06	7530	1.11	DLSA57	DE3-71M2-6	25	48
	6.1	225	141.47	7690	1.31	DLSAF57	DE3-71M2-6	28	50
	6.6	210	132.30	7760	1.40				
	6.5	215	207.00	7700	1.37				
	7.1	200	190.40	7790	1.48	DLS57	DE3-71M1-4	24	47
	8.3	170	163.06	7920	1.74	DLSF57	DE3-71M1-4	26	50
	9.6	155	141.47	8010	1.90	DLSA57	DE3-71M1-4	23	48
	10	142	132.30	8040	2.1	DLSAF57	DE3-71M1-4	26	50
	12	133	116.46	8110	2.2				
	14	112	97.44	8160	2.6				
	6.5	215	207.00	5100	0.79				
	7.1	200	190.40	5200	0.85				
	8.3	170	163.06	5340	1.00				
	9.6	150	141.47	5440	1.12				
	10	138	132.30	5480	1.22	DLS47	DE3-71M1-4	20	43
	12	127	116.46	5560	1.32	DLSF47	DE3-71M1-4	23	46
	14	108	97.44	5630	1.56	DLSA47	DE3-71M1-4	21	44
	16	95	87.11	5670	1.76	DLSAF47	DE3-71M1-4	23	46
	18	84	75.25	5700	2.0				
	19	96	70.56	5640	1.61				
	23	77	58.44	5670	2.1				
	28	66	48.84	5760	2.3				

4.1 DLS..DE3.. 减速电机技术参数表 / 4.1 Selesction tables of DLS..DE3..gearmotors

功率 Power Pm [Kw]	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	减速比 Ratio I	径向力 Overhung load FRa [N]	服务系数 Service factor fB	规格 Size		重量 Weight [kg]	尺寸图 页码 Page
0.25	13	98	102.60	3000	0.89				
	15	95	89.82	3000	0.91				
	16	91	84.26	3000	0.93				
	18	80	74.48	3000	1.05				
	20	75	66.15	3000	1.11				
	24	73	55.42	3000	1.11				
	35	54	39.08	3000	1.48				
	37	51	36.45	3000	1.53	DLS37	DE3-71M1-4	17	40
	42	44	31.91	3000	1.73	DLSF37	DE3-71M1-4	18	42
	45	42	29.94	3000	1.79	DLSA37	DE3-71M1-4	17	41
	51	37	26.46	3000	2.0	DLSAF37	DE3-71M1-4	18	42
	58	33	23.50	3000	2.2				
	69	30	19.69	2870	1.73				
	104	20	12.96	2570	2.4				
	119	18	11.35	2480	2.7				
	127	17	10.64	2440	2.8				
	144	15	9.41	2360	3.1				
	162	13	8.36	2290	3.5				
	193	11	7.00	2180	3.9				
	91	21	29.94	2740	3.6				
	103	19	26.46	2650	3.9				
	116	17	23.50	2560	4.3	DLS37	DE3-63M2-2	11	40
	133	16	20.57	2410	3.3	DLSF37	DE3-63M2-2	12	42
	139	16	19.69	2370	3.3	DLSA37	DE3-63M2-2	10	41
	145	15	18.88	2350	3.5	DLSAF37	DE3-63M2-2	12	42
	170	13	16.09	2250	3.8				
	197	11	13.90	2160	4.5				
	211	10	12.96	2120	4.8				
0.37	0.72	2660	1875	27500	0.86	DLS87R57	DE3-71M2-4	118	39
	0.80	2380	1677	28000	0.96	DLSF87R57	DE3-71M2-4	127	39
	1.4	1420	964	29400	1.61	DLSA87R57	DE3-71M2-4	109	39
	1.6	1290	862	29500	1.77	DLSAF87R57	DE3-71M2-4	127	39
	1.6	1510	832	11500	0.82				
	1.9	1320	696	12700	0.94	DLS77R37	DE3-71M2-4	71	39
	2.1	1170	628	13600	1.06	DLSF77R37	DE3-71M2-4	70	39
	2.4	1050	565	14400	1.18	DLSA77R37	DE3-71M2-4	72	39
	2.9	850	470	15000	1.46	DLSAF77R37	DE3-71M2-4	77	39
	3.6	695	374	15400	1.78				
	3.4	685	397	7700	0.76	DLS67R37	DE3-71M2-4	47	39
	4.3	530	311	8540	0.98	DLSF67R37	DE3-71M2-4	51	39
	4.9	470	276	9080	1.11	DLSA67R37	DE3-71M2-4	47	39
	5.4	435	250	9430	1.20	DLSAF67R37	DE3-71M2-4	51	39
						DLS87	DE3-90S-8	110	59
	2.3	990	294.00	29800	2.3	DLSF87	DE3-90S-8	119	62
	2.6	915	263.64	29900	2.5	DLSA87	DE3-90S-8	101	60
						DLSAF87	DE3-90S-8	119	62
						DLS77	DE3-90S-8	72	55
	3.4	655	198.18	15600	1.94	DLSF77	DE3-90S-8	78	58
	4.0	570	169.60	15900	2.2	DLSA77	DE3-90S-8	71	56
						DLSAF77	DE3-90S-8	78	58
						DLS77	DE3-80M1-6	65	55
	4.0	570	222.00	15900	2.2	DLSF77	DE3-80M1-6	71	58
	4.5	510	198.18	16000	2.5	DLSA77	DE3-80M1-6	65	56
						DLSAF77	DE3-80M1-6	71	58
	4.4	485	201.16	9400	1.07	DLS67	DE3-80M1-6	41	51
	4.7	455	189.00	9400	1.14	DLSF67	DE3-80M1-6	45	54
	5.3	405	168.00	9700	1.28	DLSA67	DE3-80M1-6	41	52
						DLSAF67	DE3-80M1-6	45	54
	6.7	335	201.16	10100	1.55	DLS67	DE3-71M2-4	37	51
	7.1	310	189.00	10200	1.68	DLSF67	DE3-71M2-4	40	54
	8.0	280	168.00	10300	1.86	DLSA67	DE3-71M2-4	37	52
	9.4	235	142.80	10400	2.2	DLSAF67	DE3-71M2-4	40	54
	10	215	129.11	10500	2.4				

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selesction tables of DLS..DE3..gearmotors

功率 Power Pm [Kw]	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	减速比 Ratio I	径向力 Overhung load FRa [N]	服务系数 Service factor fB	规格 Size		重量 Weight [kg]	尺寸图页码 Page
0.37	5.5	380	163.06	6500	0.78				
	6.3	325	141.47	6900	0.91	DLS57	DE3-80M1-6	28	47
	6.7	305	132.30	7100	0.97	DLSF57	DE3-80M1-6	30	50
	7.6	275	116.46	7390	1.07	DLSA57	DE3-80M1-6	27	48
	9.1	235	97.44	7630	1.26	DLSAF57	DE3-80M1-6	30	50
	10	220	87.11	7760	1.34				
	6.5	310	207.00	7000	0.95				
	7.1	285	190.40	7230	1.04				
	8.3	245	163.06	7500	1.20				
	9.5	230	141.47	7690	1.28				
	10	220	132.30	7770	1.34				
	12	186	116.46	7900	1.59	DLS57	DE3-71M2-4	25	47
	14	169	97.44	8000	1.75	DLSF57	DE3-71M2-4	27	50
	15	149	87.11	8000	1.98	DLSA57	DE3-71M2-4	24	48
	18	146	75.25	8060	2.0	DLSAF57	DE3-71M2-4	27	50
	19	146	70.56	8070	2.0				
	20	112	65.73	8100	2.5				
	23	104	58.44	8120	2.4				
	24	115	56.29	8110	2.1				
	28	100	48.84	8110	2.5				
	12	180	116.46	5320	0.93				
	14	164	97.44	5430	1.02				
	15	142	87.11	5500	1.18				
	18	126	75.25	5580	1.33				
	19	143	70.56	5460	1.08				
	23	120	58.44	5510	1.38				
	28	101	48.84	5410	1.53	DLS47	DE3-71M2-4	21	43
	29	95	45.68	5330	1.63	DLSF47	DE3-71M2-4	24	46
	33	83	40.21	5140	1.87	DLSA47	DE3-71M2-4	22	44
	40	70	33.64	4930	2.2	DLSAF47	DE3-71M2-4	24	46
	45	65	30.07	4790	2.4				
	52	56	25.98	4590	2.8				
	55	52	24.36	4510	2.9				
	67	47	20.17	4180	2.3				
	74	42	18.19	4030	2.6				
	79	39	17.01	3960	2.8				
	25	105	53.10	3000	0.76				
	30	92	45.26	3000	0.87				
	34	82	39.08	3000	0.98				
	37	75	36.45	3000	1.04	DLS37	DE3-71M2-4	17	40
	42	67	31.91	3000	1.13	DLSF37	DE3-71M2-4	18	42
	45	63	29.94	3000	1.19	DLSA37	DE3-71M2-4	18	41
	51	56	26.46	2940	1.32	DLSAF37	DE3-71M2-4	18	42
	57	50	23.50	2870	1.46				
	68	44	19.69	2610	1.18				
	104	30	12.96	2390	1.60				
	119	27	11.35	2320	1.78	DLS37	DE3-71M2-4	17	40
	126	25	10.64	2280	1.88	DLSF37	DE3-71M2-4	18	42
	143	22	9.41	2220	2.1	DLSA37	DE3-71M2-4	18	41
	161	19	8.36	2150	2.4	DLSAF37	DE3-71M2-4	18	42
	192	17	7.00	2070	2.5				
	104	28	26.46	2540	2.6				
	117	25	23.50	2460	2.9				
	133	23	20.57	2350	2.3				
	139	23	19.69	2290	2.3	DLS37	DE3-71M1-2	11	40
	145	22	18.88	2250	2.4	DLSF37	DE3-71M1-2	13	42
	170	19	16.09	2160	2.6	DLSA37	DE3-71M1-2	11	41
	197	16	13.90	2080	3.1	DLSAF37	DE3-71M1-2	13	42
	211	15	12.96	2040	3.2				
	242	13	11.35	1970	3.7				
	258	12	10.64	1940	3.9				
	291	11	9.41	1870	4.2				

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selesction tables of DLS..DE3..gearmotors

功率 Power Pm [Kw]	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	减速比 Ratio I	径向力 Overhung load FRa [N]	服务系数 Service factor fB	规格 Size		重量 Weight [kg]	尺寸图页码 Page
0.55	0.99	2800	1406	25400	0.81				
	1.1	2500	1254	27400	0.91				
	1.4	2100	964	28400	1.09	DLS87R57	DE3-80M1-4	122	39
	1.6	1820	862	28700	1.25	DLSF87R57	DE3-80M1-4	131	39
	1.8	1670	765	29000	1.37	DLSA87R57	DE3-80M1-4	113	39
	2.1	1480	665	29300	1.54	DLSAF87R57	DE3-80M1-4	131	39
	2.3	1300	595	29400	1.75				
	3.0	1050	466	29700	2.2				
	2.5	1510	565	6920	0.82				
	3.0	1260	470	12300	0.98	DLS77R37	DE3-80M1-4	75	39
	3.4	1050	406	13300	1.18	DLSF77R37	DE3-80M1-4	81	39
	4.2	910	332	14300	1.36	DLSA77R37	DE3-80M1-4	74	39
	4.8	800	292	14800	1.55	DLSAF77R37	DE3-80M1-4	81	39
	5.3	720	263	15300	1.72				
	5.6	635	250	6600	0.82	DLS67R37	DE3-80M1-4	51	39
	6.6	535	210	8080	0.97	DLSF67R37	DE3-80M1-4	54	39
	7.0	520	199	8590	1.00	DLSA67R37	DE3-80M1-4	50	39
	8.4	435	166	9230	1.20	DLSAF67R37	DE3-80M1-4	54	39
						DLS87	DE3-90L-8	113	59
	2.3	1480	294.00	29400	1.69	DLSF87	DE3-90L-8	122	62
	2.6	1370	263.64	29500	1.82	DLSA87	DE3-90L-8	104	60
						DLSAF87	DE3-90L-8	122	62
	3.0	1190	294.00	29700	2.1	DLS87	DE3-80M2-6	105	59
	3.4	1060	263.64	29800	2.4	DLSF87	DE3-80M2-6	114	62
	3.9	950	227.20	29800	2.6	DLSA87	DE3-80M2-6	96	60
	4.3	870	207.41	29800	2.9	DLSAF87	DE3-80M2-6	114	62
						DLS77	DE3-90L-8	75	55
	3.4	980	198.18	14200	1.30	DLSF77	DE3-90L-8	81	58
	4.0	855	169.60	14900	1.47	DLSA77	DE3-90L-8	74	56
						DLSAF77	DE3-90L-8	81	58
	4.0	855	222.00	14800	1.49	DLS77	DE3-80M2-6	66	55
	4.5	785	198.18	15200	1.62	DLSF77	DE3-80M2-6	72	58
	5.2	710	169.60	15200	1.79	DLSA77	DE3-80M2-6	66	56
	5.7	645	154.07	15300	1.97	DLSAF77	DE3-80M2-6	72	58
	6.3	555	222.00	15800	2.3	DLS77	DE3-80M1-4	66	55
	7.0	505	198.18	16000	2.5	DLSF77	DE3-80M1-4	72	58
	8.2	460	169.60	16000	2.8	DLSA77	DE3-80M1-4	65	56
						DLSAF77	DE3-80M1-4	72	58
	6.9	495	201.16	9100	1.05				
	7.4	455	189.00	9300	1.14				
	8.3	410	168.00	9620	1.27				
	9.8	345	142.80	9930	1.51	DLS67	DE3-80M1-4	41	51
	11	315	129.11	10100	1.65	DLSF67	DE3-80M1-4	45	54
	12	285	112.00	10200	1.82	DLSA67	DE3-80M1-4	41	52
	13	260	105.84	10300	2.0	DLSAF67	DE3-80M1-4	45	54
	15	245	93.13	10400	2.1				
	17	245	84.00	10400	2.1				
	19	225	73.04	10500	2.1				
	9.1	355	97.44	6710	0.83				
	10	330	87.11	7030	0.89	DLS57	DE3-80M2-6	29	47
	12	290	75.25	7360	1.02	DLSF57	DE3-80M2-6	31	50
	13	255	70.56	7470	1.16	DLSA57	DE3-80M2-6	28	48
	15	265	58.44	7630	1.00	DLSAF57	DE3-80M2-6	31	50
	19	205	45.68	7790	1.20				
	22	191	40.21	7920	1.28				
	9.9	350	141.47	6800	0.84				
	11	320	132.30	7010	0.92				
	12	270	116.46	7320	1.09				
	14	230	97.44	7590	1.28	DLS57	DE3-80M1-4	29	47
	16	205	87.11	7730	1.44	DLSF57	DE3-80M1-4	30	50
	19	190	75.25	7880	1.55	DLSA57	DE3-80M1-4	27	48
	20	175	70.56	7930	1.69	DLSAF57	DE3-80M1-4	30	50
	24	174	58.44	7960	1.52				
	31	139	45.68	8080	1.76				
	35	124	40.21	8130	1.98				

4.1 DLS..DE3.. 减速电机技术参数表 4.1 Selesction tables of DLS..DE3..gearmotors

功率 Power Pm [Kw]	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	减速比 Ratio I	径向力 Overhung load FRa [N]	服务系数 Service factor fB	规格 Size		重量 Weight [kg]	尺寸图页码 Page
0.55	41	104	33.64	7970	2.4	DLS57	DE3-80M1-4	29	47
	46	93	30.07	7730	2.6	DLSF57	DE3-80M1-4	30	50
	54	81	25.98	7390	3.0	DLSA57	DE3-80M1-4	27	48
	57	77	24.36	7250	3.2	DLSAF57	DE3-80M1-4	30	50
	69	67	20.17	6760	2.5				
	16	200	87.11	5140	0.84				
	19	184	75.25	5290	0.91				
	20	173	70.56	5310	0.90				
	24	174	58.44	5130	0.95				
	31	137	45.68	4950	1.13				
	35	123	40.21	4810	1.26				
	41	103	33.64	4650	1.50	DLS47	DE3-80M1-4	24	43
	46	92	30.07	4540	1.68	DLSF47	DE3-80M1-4	28	46
	54	80	25.98	4380	1.94	DLSA47	DE3-80M1-4	26	44
	57	76	24.36	4310	2.0	DLSAF47	DE3-80M1-4	28	46
	69	67	20.17	3920	1.64				
	82	56	17.01	3750	1.96				
	93	51	14.97	3630	2.2				
	111	42	12.53	3500	2.6				
	125	38	11.20	3400	2.9				
	144	33	9.68	3270	3.3				
	44	95	31.91	2680	0.80				
	47	90	29.94	2670	0.83				
	53	81	26.46	2630	0.91				
	59	71	23.50	2600	1.03				
	71	60	19.69	2540	0.87	DLS37	DE3-80M1-4	21	40
	108	43	12.96	2180	1.26	DLSF37	DE3-80M1-4	22	42
	123	38	11.35	2130	1.33	DLSA37	DE3-80M1-4	21	41
	131	36	10.64	2110	1.47	DLSAF37	DE3-80M1-4	22	42
	148	32	9.41	2070	1.59				
	167	29	8.36	2020	1.88				
	199	24	7.00	1950	1.79				
	93	46	29.94	2420	1.63				
	106	41	26.46	2360	1.80				
	119	37	23.50	2310	1.97				
	142	33	19.69	2070	1.58	DLS37	DE3-71M2-2	17	40
	216	22	12.96	1920	2.5	DLSF37	DE3-71M2-2	19	42
	247	19	11.35	1870	2.8	DLSA37	DE3-71M2-2	18	41
	263	18	10.64	1840	2.9	DLSAF37	DE3-71M2-2	19	42
	297	16	9.41	1780	3.3				
	335	14	8.36	1730	3.8				
	400	12	7.00	1660	3.6				
0.75	1.1	4860	1280	21300	0.82				
	1.6	3430	879	33900	1.17	DLS97R57	DE3-80M2-4	186	39
	1.6	3370	853	34600	1.19	DLSF97R57	DE3-80M2-4	206	39
	1.8	2370	756	35900	1.69	DLSA97R57	DE3-80M2-4	183	39
	2.1	2500	649	35700	1.60	DLSAF97R57	DE3-80M2-4	206	39
	2.4	2260	572	36100	1.77				
	2.7	2040	515	36300	1.96				
	1.4	2870	964	25900	0.79				
	1.6	2660	862	27500	0.86	DLS87R57	DE3-80M2-4	123	39
	1.8	2280	765	28100	1.00	DLSF87R57	DE3-80M2-4	132	39
	2.1	2010	665	28600	1.13	DLSA87R57	DE3-80M2-4	114	39
	2.3	1830	595	28900	1.25	DLSAF87R57	DE3-80M2-4	132	39
	3.0	1480	466	29300	1.54				
	4.0	1150	349	29600	1.98				
	4.2	1240	332	12000	1.00	DLS77R37	DE3-80M2-4	76	39
	4.8	1110	292	13100	1.12	DLSF77R37	DE3-80M2-4	82	39
	5.3	995	263	14000	1.25	DLSA77R37	DE3-80M2-4	75	39
	6.4	840	219	14700	1.48	DLSAF77R37	DE3-80M2-4	82	39

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selesction tables of DLS..DE3..gearmotors

功率 Power Pm [Kw]	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	减速比 Ratio I	径向力 Overhung load FRa [N]	服务系数 Service factor fB	规格 Size		重量 Weight [kg]	尺寸图 页码 Page
0.75	2.4 2.6 2.9	2080 1930 1730	291.20 266.67 235.00	36300 36300 36400	1.9 2.1 2.3	DLS97 DLSF97 DLSA97 DLSAF97	DE3-100L1-8 DE3-100L1-8 DE3-100L1-8 DE3-100L1-8	181 201 179 201	63 66 64 66
	3.1 3.5	1550 1390	294.00 263.64	29300 29500	1.47 1.64	DLS87 DLSF87 DLSA87 DLSAF87	DE3-90S-6 DE3-90S-6 DE3-90S-6 DE3-90S-6	110 119 102 119	59 62 60 62
	4.7 5.3 6.1 6.7	1090 970 835 760	294.00 263.64 227.20 207.41	29700 29800 29800 29800	2.1 2.4 2.7 3.0	DLS87 DLSF87 DLSA87 DLSAF87	DE3-80M2-4 DE3-80M2-4 DE3-80M2-4 DE3-80M2-4	105 114 94 114	59 62 60 62
	4.7 5.5	995 875	198.18 169.60	13900 14800	1.28 1.45	DLS77 DLSF77 DLSA77 DLSAF77	DE3-90S-6 DE3-90S-6 DE3-90S-6 DE3-90S-6	72 78 72 78	55 58 56 58
	6.3 7.0 8.2 9.1 10 11 13	785 700 600 545 510 465 420	222.00 198.18 169.60 154.07 135.00 128.00 111.30	15100 15400 15800 15900 16000 16000 16000	1.62 1.81 2.1 2.3 2.4 2.6 2.8	DLS77 DLSF77 DLSA77 DLSAF77	DE3-80M2-4 DE3-80M2-4 DE3-80M2-4 DE3-80M2-4	67 73 66 73	55 58 56 58
	7.4 8.3 9.8 11 12 13 15 17 19 21 22 24 28 31	610 550 465 430 390 370 325 300 290 260 260 235 200 190	189.00 168.00 142.80 129.11 112.00 105.84 93.13 84.00 73.04 65.25 63.84 58.00 49.30 44.57	7900 8570 9180 9470 9750 9860 10100 10100 10100 10200 10300 10300 10300 9840	0.85 0.95 1.12 1.21 1.33 1.41 1.60 1.73 1.66 1.85 1.85 2.0 2.4 2.5	DLS67 DLSF67 DLSA67 DLSAF67	DE3-80M2-4 DE3-80M2-4 DE3-80M2-4 DE3-80M2-4	42 46 42 46	51 54 52 54
	12 14 16 19 20 24 31 35 41 46	360 330 285 250 235 235 188 167 140 128	116.46 97.44 87.11 75.25 70.56 58.44 45.68 40.21 33.64 30.07	6400 6930 7210 7420 7500 7650 7850 7980 7670 7450	0.82 0.89 1.04 1.18 1.26 1.13 1.30 1.47 1.75 1.91	DLS57 DLSF57 DLSA57 DLSAF57	DE3-80M2-4 DE3-80M2-4 DE3-80M2-4 DE3-80M2-4	30 31 28 31	47 50 48 50
	54 57 69 82 93	112 103 91 78 68	25.98 24.36 20.17 17.01 14.97	7150 7030 6490 6160 5930	2.2 2.4 1.85 2.2 2.5	DLS57 DLSF57 DLSA57 DLSAF57	DE3-80M2-4 DE3-80M2-4 DE3-80M2-4 DE3-80M2-4	30 31 28 31	47 50 48 50
	31 35 41 46	185 165 138 127	45.67 40.21 33.64 30.07	4500 4420 4310 4230	0.84 0.94 1.12 1.22	DLS47 DLSF47 DLSA47 DLSAF47	DE3-80M2-4 DE3-80M2-4 DE3-80M2-4 DE3-80M2-4	25 29 27 29	43 46 44 46
	54 57 69 82 93 111 125 144 154 186	111 103 91 78 68 57 51 44 41 35	25.98 24.36 20.17 17.01 14.97 12.53 11.20 9.68 9.07 7.51	4110 4060 3610 3490 3410 3300 3230 3120 3070 2950	1.40 1.48 1.21 1.41 1.62 1.91 2.1 2.5 2.7 2.9	DLS47 DLSF47 DLSA47 DLSAF47	DE3-80M2-4 DE3-80M2-4 DE3-80M2-4 DE3-80M2-4	25 29 27 29	43 46 44 46

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selesction tables of DLS..DE3..gearmotors

功率 Power Pm [Kw]	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	减速比 Ratio I	径向力 Overhung load FRa [N]	服务系数 Service factor fB	规格 Size		重量 Weight [kg]	尺寸图页码 Page
0.75	108	54	12.96	2270	0.89				
	123	52	11.35	1920	1.04	DLS37	DE3-80M2-4	22	40
	131	49	10.64	1910	1.09	DLSF37	DE3-80M2-4	23	42
	148	43	9.41	1890	1.21	DLSA37	DE3-80M2-4	22	41
	167	38	8.36	1860	1.36	DLSAF37	DE3-80M2-4	23	42
	199	33	7.00	1820	1.30				
	145	42	19.69	2090	1.24				
	220	29	12.96	1800	1.85	DLS37	DE3-80M1-2	21	40
	251	26	11.35	1760	2.1	DLSF37	DE3-80M1-2	22	42
	268	25	10.64	1740	2.1	DLSA37	DE3-80M1-2	21	41
	303	22	9.41	1690	2.4	DLSAF37	DE3-80M1-2	22	42
	341	19	8.36	1650	2.6				
	407	17	7.00	1590	2.5				
1.1	1.6	4840	853	23300	0.83	DLS97R57	DE3-90S-4	192	39
	1.9	3620	756	34400	1.10	DLSF97R57	DE3-90S-4	212	39
	2.2	3640	649	34000	1.10	DLSA97R57	DE3-90S-4	189	39
	2.5	3250	572	34800	1.23	DLSAF97R57	DE3-90S-4	212	39
	2.7	2960	515	35200	1.35				
	2.1	2930	665	25400	0.85				
	2.4	2710	595	27400	0.92				
	2.7	2410	520	28000	1.04	DLS87R57	DE3-90S-4	129	39
	3.0	2160	466	28400	1.13	DLSF87R57	DE3-90S-4	137	39
	3.5	1920	407	28800	1.28	DLSA87R57	DE3-90S-4	120	39
	4.0	1670	349	29100	1.44	DLSAF87R57	DE3-90S-4	137	39
	4.6	1480	305	29300	1.62				
	5.9	1360	237	29400	1.46				
	6.6	1250	214	29500	1.58				
						DLS97	DE3-100L2-8	184	63
	2.4	3080	291.20	25200	1.30	DLSF97	DE3-100L2-8	204	66
	2.6	2820	266.67	25200	1.42	DLSA97	DE3-100L2-8	181	64
	2.9	2480	235.00	25600	1.61	DLSAF97	DE3-100L2-8	204	66
						DLS97	DE3-90L-6	178	63
	3.2	2360	291.20	36000	1.69	DLSF97	DE3-90L-6	198	66
	3.4	2160	266.67	36000	1.85	DLSA97	DE3-90L-6	175	64
	3.9	1930	235.00	36300	2.1	DLSAF97	DE3-90L-6	198	66
						DLS87	DE3-90L-6	113	59
	3.1	2320	294.00	28400	0.98	DLSF87	DE3-90L-6	122	62
	3.5	2080	263.64	29000	1.09	DLSA87	DE3-90L-6	104	60
						DLSAF87	DE3-90L-6	122	62
	4.8	1540	294.00	29300	1.48				
	5.3	1400	263.64	29500	1.63	DLS87	DE3-90S-4	110	59
	6.2	1260	227.20	29700	1.81	DLSF87	DE3-90S-4	119	62
	6.8	1150	207.41	29700	2.0	DLSA87	DE3-90S-4	101	60
	7.7	1010	182.00	29800	2.2	DLSAF87	DE3-90S-4	119	62
	9.2	850	153.04	29800	2.6				
	6.3	1150	222.00	13000	1.10				
	7.1	1020	198.18	13900	1.25				
	8.3	885	169.60	14700	1.42				
	9.1	815	154.07	15000	1.52	DLS77	DE3-90S-4	72	55
	10	735	135.00	15400	1.65	DLSF77	DE3-90S-4	78	58
	11	665	128.00	15500	1.80	DLSA77	DE3-90S-4	72	56
	13	595	111.30	15800	1.97	DLSAF77	DE3-90S-4	78	58
	14	545	102.86	15900	2.1				
	16	485	90.44	16000	2.3				
	18	415	80.00	16000	2.7				
	13	560	112.00	8490	0.93				
	13	545	105.84	8740	0.95	DLS67	DE3-90S-4	47	51
	15	470	93.13	9300	1.11	DLSF67	DE3-90S-4	51	54
	17	430	84.00	9550	1.21	DLSA67	DE3-90S-4	47	52
	19	390	73.04	9670	1.23	DLSAF67	DE3-90S-4	51	54
	22	380	63.84	9720	1.26				
	24	345	58.00	9650	1.39				

4.1 DLS..DE3.. 减速电机技术参数表 / 4.1 Selesction tables of DLS..DE3..gearmotors

功率 Power Pm [Kw]	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	减速比 Ratio I	径向力 Overhung load FRa [N]	服务系数 Service factor fB	规格 Size		重量 Weight [kg]	尺寸图页码 Page
1.1	29	290	49.30	9560	1.66				
	32	265	44.57	9240	1.81	DLS67	DE3-90S-4	47	51
	36	235	38.67	9040	2.0	DLSF67	DE3-90S-4	51	54
	38	225	36.54	8780	2.1	DLSA67	DE3-90S-4	47	52
	44	200	32.15	8660	2.4	DLSAF67	DE3-90S-4	51	54
	48	182	29.00	8330	2.6				
	29	295	48.84	7300	0.83				
	31	278	45.68	7400	0.88				
	35	245	40.21	7410	1.00				
	42	205	33.64	7170	1.20				
	47	184	30.07	7000	1.33	DLS57	DE3-90S-4	35	47
	54	163	25.98	6760	1.50	DLSF57	DE3-90S-4	37	50
	58	151	24.36	6660	1.62	DLSA57	DE3-90S-4	34	48
	70	127	20.17	6390	1.32	DLSAF57	DE3-90S-4	37	50
	94	100	14.97	5610	1.69				
	112	85	12.53	5400	1.99				
	126	75	11.20	5260	2.3				
	145	66	9.68	5050	2.6				
	47	182	30.07	3720	0.85	DLS47	DE3-90S-4	31	43
	54	161	25.98	3670	0.96	DLSF47	DE3-90S-4	34	46
	58	149	24.36	3640	1.02	DLSA47	DE3-90S-4	32	44
	70	127	20.17	3560	0.87	DLSAF47	DE3-90S-4	34	46
	77	120	18.19	3200	0.92				
	83	112	17.01	3120	0.98				
	94	100	14.97	3030	1.10	DLS47	DE3-90S-4	31	43
	112	82	12.53	2980	1.33	DLSF47	DE3-90S-4	34	46
	126	75	11.20	2940	1.45	DLSA47	DE3-90S-4	32	44
	145	66	9.68	2870	1.65	DLSAF47	DE3-90S-4	34	46
	155	62	9.07	2840	1.76				
	187	51	7.51	2750	2.0				
						DLS37	DE3-90S-4	27	40
	168	56	8.36	1570	0.80	DLSF37	DE3-90S-4	28	42
	201	47	7.00	1580	0.91	DLSA37	DE3-90S-4	28	41
						DLSAF37	DE3-90S-4	28	42
	218	43	12.96	1580	1.12				
	249	39	11.35	1570	1.44	DLS37	DE3-80M2-2	22	40
	266	36	10.64	1560	1.52	DLSF37	DE3-80M2-2	24	42
	301	31	9.41	1540	1.64	DLSA37	DE3-80M2-2	23	41
	338	28	8.36	1510	1.88	DLSAF37	DE3-80M2-2	24	42
	404	24	7.00	1470	1.79				
1.5	1.9	4940	756	29100	0.81	DLS97R57	DE3-90L-4	195	39
	2.2	4970	649	19100	0.80	DLSF97R57	DE3-90L-4	215	39
	2.5	4500	572	31100	0.89	DLSA97R57	DE3-90L-4	192	39
	2.7	4050	515	33600	0.99	DLSAF97R57	DE3-90L-4	215	39
	3.6	3160	392	35000	1.27				
	3.4	2620	407	27600	0.87	DLS87R57	DE3-90L-4	132	39
	4.0	2320	349	28200	0.98	DLSF87R57	DE3-90L-4	141	39
	4.6	2020	305	28600	1.13	DLSA87R57	DE3-90L-4	123	39
	5.9	1890	237	28800	1.21	DLSAF87R57	DE3-90L-4	141	39
	6.6	1730	214	29000	1.32				
						DLS97	DE3-112M-8	188	63
	2.6	3840	266.67	33700	1.04	DLSF97	DE3-112M-8	208	66
	3.0	3390	235.00	34400	1.18	DLSA97	DE3-112M-8	186	64
						DLSAF97	DE3-112M-8	208	66
						DLS97	DE3-100L-6	184	63
	3.5	2870	266.67	35100	1.39	DLSF97	DE3-100L-6	204	66
	4.0	2600	235.00	35500	1.54	DLSA97	DE3-100L-6	182	64
						DLSAF97	DE3-100L-6	204	66
	4.8	2200	291.20	36200	1.82	DLS97	DE3-90L-4	178	63
	5.3	2010	266.67	36200	1.99	DLSF97	DE3-90L-4	198	66
	6.0	1800	235.00	36400	2.2	DLSA97	DE3-90L-4	176	64
	7.0	1510	200.00	36400	2.6	DLSAF97	DE3-90L-4	198	66

4.1 DLS..DE3.. 减速电机技术参数表 / 4.1 Selesction tables of DLS..DE3..gearmotors

功率 Power Pm [Kw]	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	减速比 Ratio I	径向力 Overhung load FRa [N]	服务系数 Service factor fB	规格 Size		重量 Weight [kg]	尺寸图 页码 Page
1.5	4.2 4.6 5.2	2340 2170 1930	227.20 207.41 182.00	27700 28100 28500	0.97 1.05 1.15	DLS87 DLSF87 DLSA87 DLSAF87	DE3-100L-6 DE3-100L-6 DE3-100L-6 DE3-100L-6	119 128 110 128	59 62 60 62
	4.8 5.3 6.2 6.8 7.7 9.2 10 11 13 14	2130 1910 1670 1550 1360 1160 1060 930 880 770	294.00 263.64 227.20 207.41 182.00 153.04 140.95 125.22 112.00 100.74	28700 28800 29000 29200 29400 29600 29600 29700 29800 29900	1.07 1.19 1.37 1.46 1.63 1.85 1.98 2.2 2.3 2.5	DLS87 DLSF87 DLSA87 DLSAF87	DE3-90L-4 DE3-90L-4 DE3-90L-4 DE3-90L-4	113 122 105 122	59 62 60 62
	7.1 8.3 9.1 10 11 13 14 16 18 19 20 21 25 27 31 33	1420 1210 1100 990 900 815 795 700 650 645 630 505 440 445 400 385	198.18 169.60 154.07 135.00 128.00 111.30 102.85 90.44 80.00 74.00 71.11 66.06 56.53 51.36 45.00 42.67	10600 12700 13400 14100 14400 14900 15300 15400 14500 14000 14000 14600 14000 13200 13000 12600	0.89 1.04 1.13 1.22 1.33 1.44 1.43 1.57 1.69 1.71 1.75 2.1 2.3 2.5 2.8 2.9	DLS77 DLSF77 DLSA77 DLSAF77	DE3-90L-4 DE3-90L-4 DE3-90L-4 DE3-90L-4	75 81 75 81	55 58 56 58
	15 17 19	635 590 510	93.13 84.00 73.04	7850 8390 8510	0.82 0.88 0.94	DLS67 DLSF67 DLSA67 DLSAF67	DE3-90L-4 DE3-90L-4 DE3-90L-4 DE3-90L-4	50 54 50 54	51 54 52 54
	22 24 28 31 36 38 44 48 56	540 490 415 370 330 305 275 250 210	63.84 58.00 49.30 44.57 38.67 36.54 32.15 29.00 25.22	8740 8770 8810 8590 8450 8250 8160 7900 7740	0.89 0.98 1.16 1.30 1.45 1.57 1.75 1.92 2.3	DLS67 DLSF67 DLSA67 DLSAF67	DE3-90L-4 DE3-90L-4 DE3-90L-4 DE3-90L-4	50 54 50 54	51 54 52 54
	58 64 65 76 85 97	215 200 198 171 153 134	24.30 22.04 21.60 18.36 16.60 14.40	7560 6950 6790 6580 6440 6260	1.58 1.70 1.72 1.99 2.2 2.5	DLS67 DLSF67 DLSA67 DLSAF67	DE3-90L-4 DE3-90L-4 DE3-90L-4 DE3-90L-4	50 54 50 54	51 54 52 54
	42 47 54 58 70 94 112 125 145	275 255 220 205 175 136 115 104 90	33.64 30.07 25.98 24.36 20.17 14.97 12.53 11.20 9.68	6630 6520 6340 6270 5300 5250 5100 4980 4820	0.89 0.96 1.11 1.20 0.96 1.24 1.47 1.63 1.88	DLS57 DLSF57 DLSA57 DLSAF57	DE3-90L-4 DE3-90L-4 DE3-90L-4 DE3-90L-4	38 40 38 40	47 50 98 50
	94 112	136 115	14.97 12.53	2610 2620	0.81 0.95	DLS47 DLSF47 DLSA47 DLSAF47	DE3-90L-4 DE3-90L-4 DE3-90L-4 DE3-90L-4	34 37 35 37	43 46 44 46

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selesction tables of DLS..DE3..gearmotors

功率 Power Pm [Kw]	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	减速比 Ratio I	径向力 Overhung load FRa [N]	服务系数 Service factor fB	规格 Size		重量 Weight [kg]	尺寸图页码 Page
1.5	125	104	11.20	2620	1.05	DLS47	DE3-90L-4	34	43
	145	90	9.68	2590	1.21	DLSF47	DE3-90L-4	37	46
	155	83	9.07	2580	1.31	DLSA47	DE3-90L-4	35	44
	187	69	7.51	2530	1.49	DLSAF47	DE3-90L-4	37	46
	300	44	9.41	1330	1.05	DLS37	DE3-90S-2	27	40
	338	39	8.36	1350	1.15	DLSF37	DE3-90S-2	28	42
	403	32	7.00	1340	1.34	DLSA37	DE3-90S-2	28	41
						DLSAF37	DE3-90S-2	28	42
2.2	3.6	4560	392	28300	0.88	DLS97R57	DE3-100L1-4	202	39
	4.8	3470	298	34300	1.15	DLSF97R57	DE3-100L1-4	222	39
	5.3	3150	271	35000	1.27	DLSA97R57	DE3-100L1-4	199	39
						DLSAF97R57	DE3-100L1-4	222	39
						DLS97	DE3-112M-6	193	63
	3.6	4260	266.67	32800	0.94	DLSF97	DE3-112M-6	212	66
	4.0	3750	235.00	33700	1.07	DLSA97	DE3-112M-6	190	64
						DLSAF97	DE3-112M-6	212	66
	5.4	2910	266.67	35100	1.37				
	6.1	2590	235.00	35500	1.54				
	7.1	2240	200.00	36000	1.79				
	7.7	2070	184.76	36100	1.89	DLS97	DE3-100L1-4	185	63
	8.6	1850	165.22	36300	2.1	DLSF97	DE3-100L1-4	205	66
	9.6	1690	148.80	36500	2.2	DLSA97	DE3-100L1-4	182	64
	11	1590	134.82	36600	2.3	DLSAF97	DE3-100L1-4	205	66
	12	1360	118.46	36700	2.6				
	13	1210	107.14	36800	2.8				
	15	1110	92.80	36900	2.9				
	5.4	2720	263.64	27100	0.84				
	6.3	2380	227.20	27700	0.96				
	6.9	2230	207.41	28100	1.01				
	7.8	1960	182.00	28500	1.13				
	9.3	1670	153.04	28900	1.29				
	10	1540	140.95	29100	1.36	DLS87	DE3-100L1-4	119	59
	11	1350	125.22	29300	1.53	DLSF87	DE3-100L1-4	128	62
	13	1270	112.00	29500	1.57	DLSA87	DE3-100L1-4	111	60
	14	1110	100.74	29600	1.77	DLSAF87	DE3-100L1-4	128	62
	16	1110	87.69	29600	1.69				
	18	990	78.57	29800	1.84				
	20	930	71.95	29700	1.72				
	22	850	65.68	29800	1.88				
	25	755	57.63	29900	2.1				
	11	1450	135.00	6140	0.83				
	11	1300	128.00	11100	0.92				
	13	1180	111.30	12600	0.99				
	14	1150	102.85	13400	0.99				
	16	1010	90.44	14100	1.09				
	18	895	80.00	13800	1.23				
	20	795	71.11	13200	1.38	DLS77	DE3-100L1-4	82	55
	25	640	56.53	13100	1.55	DLSF77	DE3-100L1-4	88	58
	28	650	51.36	12100	1.69	DLSA77	DE3-100L1-4	82	56
	32	580	45.00	11900	1.90	DLSAF77	DE3-100L1-4	88	58
	33	550	42.67	11700	2.0				
	38	475	37.10	11600	2.3				
	42	435	34.29	11300	2.5				
	54	345	26.67	10700	3.0				
	59	315	24.03	9500	2.2				
	60	315	23.70	9490	2.2				
	32	530	44.57	7480	0.91				
	37	470	38.67	7440	1.02				
	39	445	36.54	7360	1.08	DLS67	DE3-100L1-4	57	51
	44	400	32.15	7320	1.20	DLSF67	DE3-100L1-4	61	54
	49	360	29.00	7180	1.33	DLSA67	DE3-100L1-4	57	52
	57	310	25.22	7080	1.55	DLSAF67	DE3-100L1-4	61	54
	65	290	22.04	6060	1.17				

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selesction tables of DLS..DE3..gearmotors

功率 Power Pm [Kw]	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	减速比 Ratio I	径向力 Overhung load FRa [N]	服务系数 Service factor fB	规格 Size		重量 Weight [kg]	尺寸图页码 Page
2.2	78	245	18.36	5960	1.39				
	86	215	16.60	5880	1.58				
	99	193	14.40	5770	1.76	DLS67	DE3-100L1-4	57	51
	105	182	13.61	5710	1.87	DLSF67	DE3-100L1-4	61	54
	119	158	11.97	5700	2.2	DLSA67	DE3-100L1-4	57	52
	132	140	10.80	5550	2.4	DLSAF67	DE3-100L1-4	61	54
	152	120	9.39	5450	2.8				
	174	110	8.21	5300	2.7				
	95	198	14.97	4650	0.85				
	114	166	12.53	4580	1.02	DLS57	DE3-100L1-4	45	47
	127	148	11.20	4520	1.14	DLSF57	DE3-100L1-4	47	50
	147	128	9.68	4420	1.32	DLSA57	DE3-100L1-4	44	48
	157	120	9.07	4380	1.38	DLSAF57	DE3-100L1-4	47	50
	190	101	7.51	4250	1.45				
3.0	4.8	4830	298	23700	0.83	DLS97R57	DE3-100L2-4	204	39
	5.3	4390	271	32400	0.91	DLSF97R57	DE3-100L2-4	224	39
	6.0	3840	237	33900	1.04	DLSA97R57	DE3-100L2-4	202	39
	6.5	3580	221	34300	1.12	DLSAF97R57	DE3-100L2-4	224	39
	4.9	4210	291.20	32500	0.95				
	5.4	3890	266.67	33300	1.03				
	6.1	3480	235.00	34100	1.15				
	7.2	3000	200.00	34900	1.33				
	7.8	2810	184.76	35200	1.40	DLS97	DE3-100L2-4	188	63
	8.7	2550	165.22	35600	1.51	DLSF97	DE3-100L2-4	208	66
	9.6	2290	148.80	35900	1.63	DLSA97	DE3-100L2-4	185	64
	11	2160	134.82	36100	1.69	DLSAF97	DE3-100L2-4	208	66
	12	1850	118.46	36300	1.90				
	13	1650	107.14	36400	2.1				
	15	1500	92.80	36600	2.2				
	17	1450	82.22	36600	2.2				
	7.9	2690	182.00	27100	0.82				
	9.4	2270	153.04	27900	0.95				
	10	2090	140.95	28200	1.00				
	11	1830	125.22	28600	1.13				
	13	1750	112.00	28900	1.14				
	14	1530	100.74	29100	1.28				
	16	1330	87.69	29300	1.41	DLS87	DE3-100L2-4	122	59
	18	1210	78.57	29500	1.50	DLSF87	DE3-100L2-4	131	62
	20	1270	71.95	29400	1.26	DLSA87	DE3-100L2-4	113	60
	22	1170	65.68	29500	1.37	DLSAF87	DE3-100L2-4	131	62
	25	1040	57.63	29700	1.54				
	30	850	48.46	29800	1.88				
	32	790	44.64	29800	2.0				
	36	710	39.65	29900	2.3				
	40	630	35.47	29900	2.5				
	16	1300	90.44	11500	0.85	DLS77	DE3-100L2-4	85	55
	18	1220	80.00	12500	0.90	DLSF77	DE3-100L2-4	91	58
	20	1080	71.11	12200	1.02	DLSA77	DE3-100L2-4	84	56
	25	870	56.53	12100	1.14	DLSAF77	DE3-100L2-4	91	58
	28	880	51.36	10800	1.25				
	32	770	45.00	10800	1.43				
	34	730	42.67	10700	1.51				
	39	645	37.10	10600	1.71				
	42	600	34.29	10400	1.83				
	48	530	30.15	10300	2.1				
	54	465	26.67	10100	2.3	DLS77	DE3-100L2-4	85	55
	60	430	24.03	8820	1.64	DLSF77	DE3-100L2-4	91	58
	60	435	23.70	8680	1.62	DLSA77	DE3-100L2-4	84	56
	66	400	21.83	8600	1.76	DLSAF77	DE3-100L2-4	91	58
	75	350	19.13	8510	2.7				
	79	330	18.13	8450	2.8				
	91	290	15.77	8210	2.4				
	98	270	14.57	8060	2.6				
	112	235	12.81	7870	3.1				
	126	210	11.33	7670	3.4				

4.1 DLS..DE3.. 减速电机技术参数表 4.1 Selesction tables of DLS..DE3..gearmotors

功率 Power Pm [Kw]	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	减速比 Ratio I	径向力 Overhung load FRa [N]	服务系数 Service factor fB	规格 Size		重量 Weight [kg]	尺寸图 页码 Page
3.0	45	530	32.15	6350	0.91	DLS67	DE3-100L2-4	60	51
	49	485	29.00	6350	0.99	DLSF67	DE3-100L2-4	63	54
	57	420	25.22	6330	1.14	DLSA67	DE3-100L2-4	59	52
						DLSAF67	DE3-100L2-4	63	54
	65	375	22.04	5260	0.91				
	78	330	18.36	5250	1.03				
	86	300	16.60	5240	1.13				
	99	260	14.40	5210	1.31	DLS67	DE3-100L2-4	60	51
	105	245	13.61	5190	1.39	DLSF67	DE3-100L2-4	63	54
	120	215	11.97	5100	1.58	DLSA67	DE3-100L2-4	59	52
	133	199	10.80	5050	1.71	DLSAF67	DE3-100L2-4	63	54
	152	173	9.39	4940	1.94				
	174	151	8.21	4830	1.95				
	128	200	11.20	3990	0.85	DLS57	DE3-100L2-4	48	47
	148	176	9.68	3970	0.96	DLSF57	DE3-100L2-4	49	50
	158	163	9.07	3960	1.02	DLSA57	DE3-100L2-4	46	48
	191	137	7.51	3900	1.07	DLSAF57	DE3-100L2-4	49	50
4.0	6.5	4740	221	27300	0.84	DLS97R57	DE3-112M-4	213	39
						DLSF97R57	DE3-112M-4	233	39
						DLSA97R57	DE3-112M-4	210	39
						DLSAF97R57	DE3-112M-4	233	39
	6.1	4600	235.00	28300	0.87				
	7.2	3970	200.00	33200	1.01				
	7.8	3770	184.76	33800	1.04				
	8.7	3370	165.22	34400	1.14				
	9.7	3030	148.80	34900	1.23				
	11	2820	134.82	35300	1.29	DLS97	DE3-112M-4	197	63
	12	2410	118.46	35700	1.46	DLSF97	DE3-112M-4	216	66
	13	2160	107.14	35900	1.59	DLSA97	DE3-112M-4	194	64
	16	1970	92.80	36300	1.64	DLSAF97	DE3-112M-4	216	66
	18	1920	82.22	36200	1.69				
	20	1750	72.46	36400	1.89				
	23	1490	61.67	36500	2.2				
	25	1340	56.97	36600	2.5				
	13	2280	112.00	28000	0.88				
	14	2000	100.74	28400	0.98				
	16	1740	87.69	28800	1.08				
	18	1580	78.57	29000	1.15				
	22	1530	65.68	29100	1.05				
	25	1340	57.63	29300	1.19	DLS87	DE3-112M-4	132	59
	30	1150	48.46	29500	1.39	DLSF87	DE3-112M-4	141	62
	32	1050	44.64	29600	1.52	DLSA87	DE3-112M-4	123	60
	36	930	39.65	29700	1.72	DLSAF87	DE3-112M-4	141	62
	41	845	35.47	29800	1.89				
	45	760	31.90	29100	2.1				
	52	665	27.77	28200	2.4				
	56	620	25.78	26600	2.0				
	28	1160	51.36	9250	0.95	DLS77	DE3-112M-4	94	55
	32	1040	45.00	9320	1.06	DLSF77	DE3-112M-4	99	58
	32	990	42.67	9370	1.11	DLSA77	DE3-112M-4	93	56
						DLSAF77	DE3-112M-4	99	58
	39	860	37.10	9370	1.28				
	42	805	34.29	9340	1.37				
	48	700	30.15	9290	1.56	DLS77	DE3-112M-4	94	55
	54	620	26.67	9190	1.69	DLSF77	DE3-112M-4	99	58
	61	575	23.70	7650	1.23	DLSA77	DE3-112M-4	93	56
	66	530	21.83	7650	1.33	DLSAF77	DE3-112M-4	99	58
	75	470	19.13	7640	1.98				
	80	440	18.13	7620	2.1				

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selesction tables of DLS..DE3..gearmotors

功率 Power Pm [Kw]	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	减速比 Ratio I	径向力 Overhung load FRa [N]	服务系数 Service factor fB	规格 Size		重量 Weight [kg]	尺寸图页码 Page
4.0	92	385	15.77	7510	1.84				
	99	355	14.57	7430	2.0	DLS77	DE3-112M-4	94	55
	113	315	12.81	7310	2.3	DLSF77	DE3-112M-4	99	58
	127	275	11.33	7170	2.6	DLSA77	DE3-112M-4	93	56
	143	245	10.07	7030	2.9	DLSAF77	DE3-112M-4	99	58
	170	210	8.50	6830	3.2				
	87	395	16.60	4180	0.86				
	100	340	14.40	4500	1.00	DLS67	DE3-112M-4	68	51
	106	330	13.61	4520	1.03	DLSF67	DE3-112M-4	72	54
	121	285	11.97	4530	1.19	DLSA67	DE3-112M-4	68	52
	134	260	10.80	4520	1.31	DLSAF67	DE3-112M-4	72	54
	154	225	9.39	4490	1.49				
	176	200	8.21	4430	1.48				
5.5	8.8	4550	165.22	29900	0.84				
	9.7	4150	148.80	32900	0.90				
	11	3860	134.82	33700	0.95	DLS97	DE3-132S-4	216	63
	12	3300	118.46	34400	1.06	DLSF97	DE3-132S-4	236	66
	14	3140	107.14	34900	1.10	DLSA97	DE3-132S-4	213	64
	16	2690	92.80	35500	1.20	DLSAF97	DE3-132S-4	236	66
	19	2210	78.26	35900	1.39				
	22	1970	67.27	36200	1.47				
	24	2030	61.67	36200	1.63	DLS97	DE3-132S-4	216	63
	25	1820	56.97	36300	1.81	DLSF97	DE3-132S-4	236	66
	28	1700	50.94	36500	1.94	DLSA97	DE3-132S-4	213	64
	32	1510	45.88	36600	2.2	DLSAF97	DE3-132S-4	236	66
	35	1370	41.57	36700	2.4				
	18	2280	78.57	28100	0.80	DLS87	DE3-132S-4	152	59
	30	1560	48.46	29100	1.03	DLSF87	DE3-132S-4	160	62
	32	1420	44.64	29200	1.13	DLSA87	DE3-132S-4	143	60
						DLSAF87	DE3-132S-4	160	62
	37	1290	39.65	29200	1.24				
	41	1130	35.47	28600	1.42				
	45	1030	31.90	28000	1.55				
	52	905	27.77	27200	1.77	DLS87	DE3-132S-4	152	59
	58	835	24.88	25200	1.49	DLSF87	DE3-132S-4	160	62
	67	730	21.68	24500	1.70	DLSA87	DE3-132S-4	143	60
	70	695	20.77	24300	1.78	DLSAF87	DE3-132S-4	160	62
	73	675	19.97	24100	1.84				
	82	600	17.74	23500	2.1				
	91	530	15.87	23000	2.3				
	102	485	14.27	22500	2.6	DLS87	DE3-132S-4	152	59
	117	420	12.42	21800	3.0	DLSF87	DE3-132S-4	160	62
	130	375	11.13	21200	3.3	DLSA87	DE3-132S-4	143	60
						DLSAF87	DE3-132S-4	160	62
	39	1180	37.10	7560	0.93	DLS77	DE3-132S-4	113	55
	42	1090	34.29	7750	1.01	DLSF77	DE3-132S-4	119	58
	48	960	30.15	7850	1.15	DLSA77	DE3-132S-4	112	56
						DLSAF77	DE3-132S-4	119	58
	54	850	26.67	7920	1.24				
	61	760	23.70	7940	0.93				
	92	530	15.77	6490	1.34	DLS77	DE3-132S-4	113	55
	100	490	14.57	6510	1.45	DLSF77	DE3-132S-4	119	58
	113	425	12.81	6500	1.69	DLSA77	DE3-132S-4	112	56
	128	380	11.33	6450	1.89	DLSAF77	DE3-132S-4	119	58
	144	335	10.07	6390	2.2				
	171	285	8.50	6280	2.4				
	121	395	11.97	2930	0.86	DLS67	DE3-132S-4	87	51
	134	360	10.80	3260	0.94	DLSF67	DE3-132S-4	91	54
	154	315	9.39	3670	1.06	DLSA67	DE3-132S-4	87	52
	177	270	8.21	3850	1.09	DLSAF67	DE3-132S-4	91	54

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selesction tables of DLS..DE3..gearmotors

功率 Power Pm [Kw]	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	减速比 Ratio I	径向力 Overhung load FRa [N]	服务系数 Service factor fB	规格 Size		重量 Weight [kg]	尺寸图页码 Page
7.5	14	4280	107.14	32900	0.80				
	16	3660	92.80	34100	0.89				
	19	3050	78.26	34800	1.01				
	22	2690	67.27	35500	1.08				
	24	2770	61.67	35300	1.19				
	26	2560	56.97	35600	1.29				
	29	2310	50.94	35900	1.43				
	32	2060	45.88	36100	1.60	DLS97	DE3-132M-4	229	63
	35	1840	41.57	36300	1.79	DLSF97	DE3-132M-4	249	66
	40	1660	36.53	36200	1.99	DLSA97	DE3-132M-4	226	64
	44	1500	33.04	35500	2.1	DLSAF97	DE3-132M-4	249	66
	51	1300	28.61	33300	2.3				
	54	1240	26.94	32000	2.1				
	60	1120	24.13	31600	2.4				
	60	1100	24.09	31500	2.4				
	70	970	20.74	31500	2.7				
	67	1020	21.70	31000	2.5				
	74	910	19.66	30700	2.9				
	33	1940	44.64	27800	0.82	DLS87	DE3-132M-4	165	59
	37	1760	39.65	27400	0.91	DLSF87	DE3-132M-4	174	62
	41	1640	35.47	27000	0.98	DLSA87	DE3-132M-4	156	60
						DLSAF87	DE3-132M-4	174	62
	46	1400	31.90	26500	1.14				
	52	1220	27.77	25900	1.31				
	58	1130	24.88	23500	1.10				
	67	1000	21.68	23000	1.24				
	70	960	20.77	22900	1.29	DLS87	DE3-132M-4	165	59
	73	925	19.97	22700	1.34	DLSF87	DE3-132M-4	174	62
	82	820	17.74	22300	1.51	DLSA87	DE3-132M-4	156	60
	92	725	15.87	21900	1.71	DLSAF87	DE3-132M-4	174	62
	102	660	14.27	21500	1.88				
	117	575	12.43	20900	2.2				
	131	515	11.13	20500	2.4				
	156	435	9.29	19700	2.6				
	54	1160	26.67	6240	0.91	DLS77	DE3-132M-4	126	55
	61	1030	23.71	6600	0.95	DLSF77	DE3-132M-4	132	58
	92	720	15.77	3250	0.99	DLSA77	DE3-132M-4	125	56
						DLSAF77	DE3-132M-4	132	58
	100	665	14.57	3890	1.07				
	113	580	12.81	4570	1.24	DLS77	DE3-132M-4	126	55
	128	515	11.33	5110	1.40	DLSF77	DE3-132M-4	132	58
	144	460	10.07	5540	1.58	DLSA77	DE3-132M-4	125	56
	171	390	8.50	5560	1.74	DLSAF77	DE3-132M-4	132	58
9.2	18	3720	78.26	33600	0.83	DLS97	DE3-132L-4	237	63
	21	3280	67.27	34600	0.88	DLSF97	DE3-132L-4	257	66
	28	2830	50.94	35300	1.17	DLSA97	DE3-132L-4	235	64
						DLSAF97	DE3-132L-4	257	66
	31	2520	45.88	35600	1.31				
	35	2280	41.57	35700	1.45				
	39	2050	36.53	35000	1.61				
	44	1830	33.04	34400	1.75				
	50	1590	28.61	32100	1.92	DLS97	DE3-132L-4	237	63
	60	1400	24.13	30300	1.89	DLSF97	DE3-132L-4	257	66
	60	1370	24.09	30200	1.90	DLSA97	DE3-132L-4	235	64
	66	1240	21.70	30100	2.1	DLSAF97	DE3-132L-4	257	66
	69	1190	20.74	29700	2.2				
	73	1140	19.66	29200	2.3				
	83	990	17.28	28500	2.6				
	92	895	15.63	28000	2.8				
	106	780	13.53	27000	3.0	DLS97	DE3-132L-4	237	63
	126	660	11.41	26200	3.3	DLSF97	DE3-132L-4	257	66
	147	565	9.81	26000	3.6	DLSA97	DE3-132L-4	235	64
						DLSAF97	DE3-132L-4	257	66

4.1 DLS..DE3.. 减速电机技术参数表 4.1 Selesction tables of DLS..DE3..gearmotors

功率 Power Pm [Kw]	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	减速比 Ratio I	径向力 Overhung load FRa [N]	服务系数 Service factor fB	规格 Size		重量 Weight [kg]	尺寸图页码 Page
9.2	41	1930	35.47	25600	0.83	DLS87	DE3-132L-4	173	59
	45	1770	31.90	25300	0.90	DLSF87	DE3-132L-4	182	62
	52	1520	27.77	24800	1.05	DLSA87	DE3-132L-4	164	60
	58	1380	24.88	24400	0.90	DLSAF87	DE3-132L-4	182	62
	69	1150	20.77	23700	1.08				
	81	1010	17.74	21300	1.23				
	91	900	15.87	21000	1.38	DLS87	DE3-132L-4	173	59
	101	805	14.27	20700	1.54	DLSF87	DE3-132L-4	182	62
	116	710	12.42	20200	1.75	DLSA87	DE3-132L-4	164	60
	129	635	11.13	19800	1.95	DLSAF87	DE3-132L-4	182	62
	155	530	9.29	19100	2.2				
	112	725	12.81	2290	0.99	DLS77	DE3-132L-4	134	55
	127	640	11.33	3060	1.13	DLSF77	DE3-132L-4	140	58
	143	570	10.07	3690	1.27	DLSA77	DE3-132L-4	133	56
	169	485	8.50	4360	1.40	DLSAF77	DE3-132L-4	140	58
11	29	3330	50.94	34500	0.99				
	32	2960	45.88	34800	1.11				
	35	2690	41.57	34400	1.23				
	40	2390	36.53	33800	1.38				
	44	2160	33.04	33300	1.48				
	51	1870	28.61	31700	1.63				
	61	1650	24.13	29200	1.61	DLS97	DE3-160M-4	255	63
	61	1610	24.09	29200	1.61	DLSF97	DE3-160M-4	275	66
	67	1460	21.70	29000	1.78	DLSA97	DE3-160M-4	253	64
	71	1400	20.74	28700	1.86	DLSAF97	DE3-160M-4	275	66
	74	1340	19.66	28600	1.94				
	85	1170	17.28	28000	2.2				
	94	1050	15.63	27600	2.4				
	108	920	13.53	26900	2.5				
	128	770	11.41	26000	2.9				
	149	665	9.81	25700	3.1				
						DLS87	DE3-160M-4	191	59
	53	1810	27.77	23700	0.88	DLSF87	DE3-160M-4	200	62
	70	1360	20.77	22800	0.91	DLSA87	DE3-160M-4	182	60
						DLSAF87	DE3-160M-4	200	62
	82	1180	17.74	20200	1.05				
	92	1070	15.87	20000	1.16	DLS87	DE3-160M-4	191	59
	103	950	14.27	19800	1.31	DLSF87	DE3-160M-4	200	62
	118	835	12.43	19400	1.49	DLSA87	DE3-160M-4	182	60
	131	750	11.13	19100	1.65	DLSAF87	DE3-160M-4	200	62
	157	630	9.29	18600	1.81				
15	32	4130	45.88	31400	0.80	DLS97	DE3-160L-4	272	63
	35	3700	41.57	31300	0.89	DLSF97	DE3-160L-4	291	66
	40	3290	36.53	31000	1.00	DLSA97	DE3-160L-4	269	64
						DLSAF97	DE3-160L-4	291	66
	44	2980	33.03	30800	1.07				
	51	2580	28.61	27000	1.18				
	61	2200	24.13	26300	1.20				
	61	2190	24.09	26300	1.19				
	67	2000	21.70	26300	1.30	DLS97	DE3-160L-4	272	63
	71	1910	20.74	26200	1.36	DLSF97	DE3-160L-4	291	66
	74	1830	19.66	26200	1.42	DLSA97	DE3-160L-4	269	64
	85	1590	17.28	25800	1.62	DLSAF97	DE3-160L-4	291	66
	94	1450	15.63	25700	1.70				
	108	1260	13.53	25000	1.85				
	128	1060	11.41	24500	2.1				
	149	910	9.81	24300	2.2				
	172	795	8.51	22900	2.2				
						DLS87	DE3-160L-4	207	59
	92	1440	15.87	17900	0.86	DLSF87	DE3-160L-4	216	62
	103	1310	14.27	17900	0.95	DLSA87	DE3-160L-4	198	60
						DLSAF87	DE3-160L-4	216	62

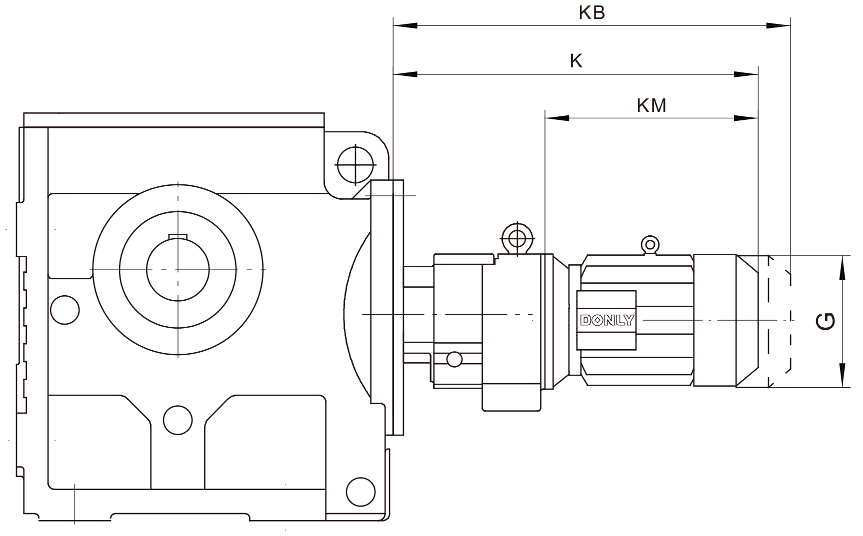
4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selesction tables of DLS..DE3..gearmotors

功率 Power Pm [Kw]	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	减速比 Ratio I	径向力 Overhung load FRa [N]	服务系数 Service factor fB	规格 Size		重量 Weight [kg]	尺寸图 页码 Page
15	118 131 157	1140 1020 855	12.42 11.13 9.29	17800 17600 17000	1.09 1.22 1.33	DLS87 DLSF87 DLSA87 DLSAF87	DE3-160L-4 DE3-160L-4 DE3-160L-4 DE3-160L-4	207 216 198 216	59 62 60 62
18.5	40 45 51 61 68 71 75 85 94 109 129 150 173	4030 3610 3160 2690 2470 2340 2220 1970 1780 1540 1300 1120 965	36.53 33.04 28.61 24.13 21.70 20.74 19.66 17.28 15.63 13.53 11.41 9.81 8.51	28700 28600 28400 28100 24100 24100 24100 24000 23900 23500 23200 22600 22100	0.82 0.89 0.97 0.97 1.05 1.11 1.17 1.30 1.39 1.51 1.70 1.82 1.83	DLS97 DLSF97 DLSA97 DLSAF97	DE3-180M-4 DE3-180M-4 DE3-180M-4 DE3-180M-4	305 325 303 325	63 66 64 66
22	51 61 68 71 75 85	3760 3170 2910 2780 2640 2340	28.61 24.13 21.70 20.74 19.66 17.28	26600 26500 19800 21000 21800 22300	0.81 0.82 0.89 0.94 0.98 1.10	DLS97 DLSF97 DLSA97 DLSAF97	DE3-180L-4 DE3-180L-4 DE3-180L-4 DE3-180L-4	322 342 320 342	63 66 64 66
	94 109 129 150 173	2120 1830 1550 1330 1150	15.63 13.53 11.41 9.81 8.51	22400 22300 22100 21700 21300	1.17 1.27 1.43 1.53 1.54	DLS97 DLSF97 DLSA97 DLSAF97	DE3-180L-4 DE3-180L-4 DE3-180L-4 DE3-180L-4	322 342 320 342	63 66 64 66

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors



齿轮箱 Gearbox	电机 Motor	G	K	KB	KM
DLS..37R17 DLS..47R17 DLS..57R17	DE3-63..	Φ150	378	443	245
	DE3-71..	Φ150	378	443	245
DLS..67R37	DE3-63..	Φ150	402	467	245
	DE3-71..	Φ150	402	467	245
	DE3-80..	150×150	452	527	295
DLS..77R37	DE3-63..	Φ150	402	467	245
	DE3-71..	Φ150	402	467	245
	DE3-80..	150×150	452	527	295
DLS..87R57	DE3-63..	Φ150	437	502	250
	DE3-71..	Φ150	437	502	250
	DE3-80..	150×150	477	552	290
	DE3-90S	170×170	472	542	285
	DE3-90L	170×170	502	582	315
DLS..97R57	DE3-80..	150×150	477	552	290
	DE3-90S	170×170	472	542	285
	DE3-90L	170×170	502	582	315
	DE3-100..	191×191	567	637	380
	DE3-112M	215×215	587	662	400

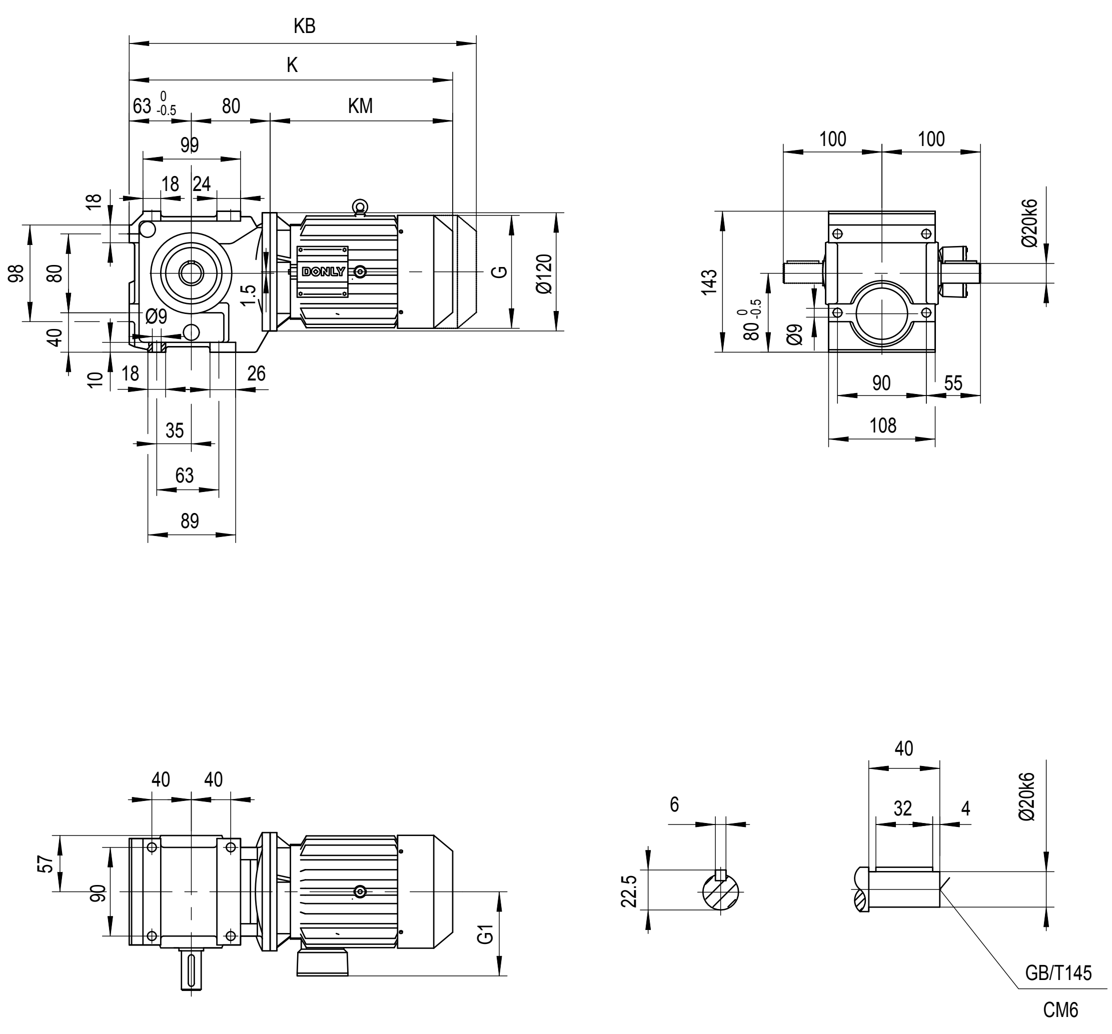
注：KB 为带制动器的长度。

Note:KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors

DLS37..



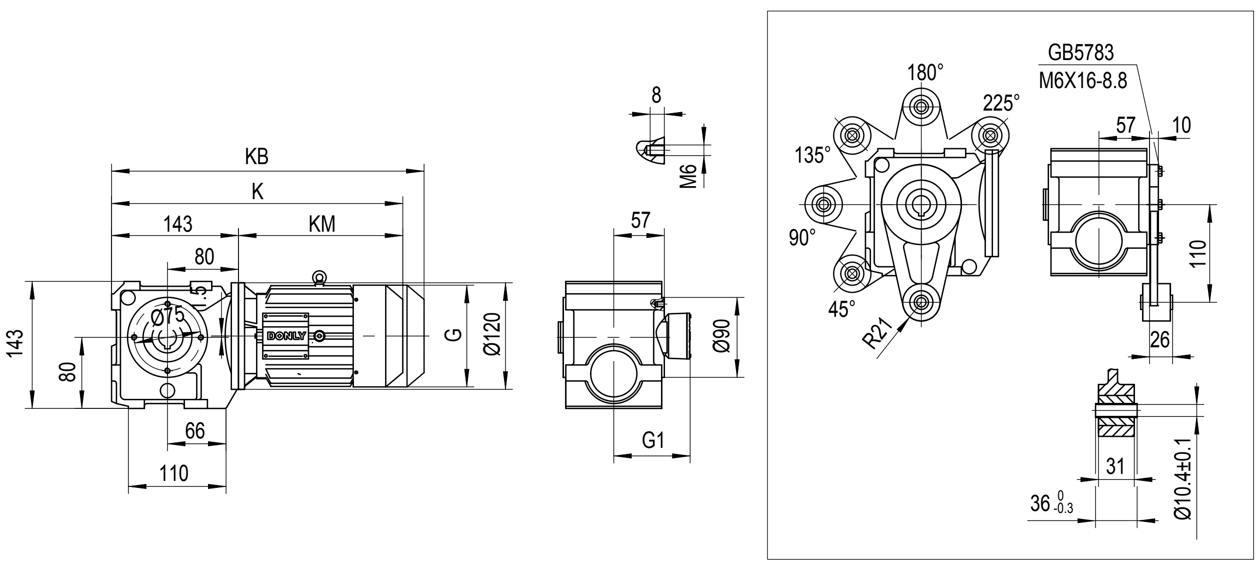
	DE3-63	DE3-71	DE3-80	DE3-90S	DE3-90L	
G (AC)	Φ150	Φ150	150×150	170×170	170×170	
G1 (AD)	130	130	145	155	155	
K	398	398	448	443	473	
KB	463	463	523	513	553	
KM (LB)	255	255	305	300	330	

注：KB 为带制动器的长度。

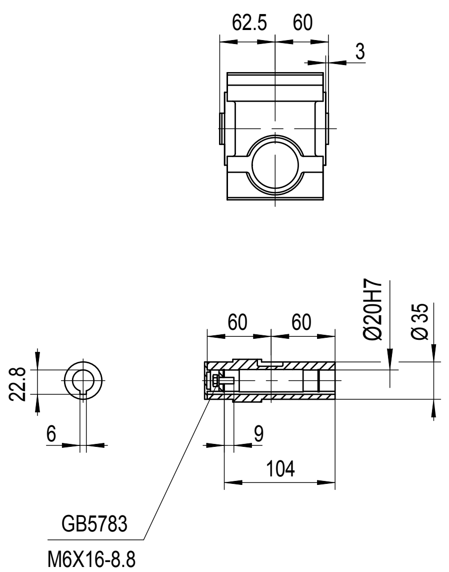
Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

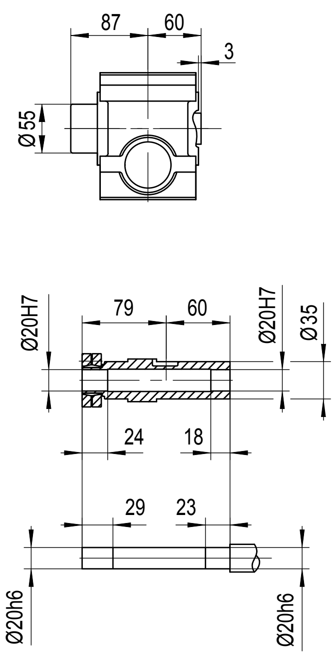
4.2 Dimensions of DLS..DE3..gearmotors



DLSAT37..



DLSHT37..



	DE3-63	DE3-71	DE3-80	DE3-90S	DE3-90L	
G (AC)	Φ150	Φ150	150×150	170×170	170×170	
G1 (AD)	130	130	145	155	155	
K	398	398	448	443	473	
KB	463	463	523	513	553	
KM (LB)	255	255	305	300	330	

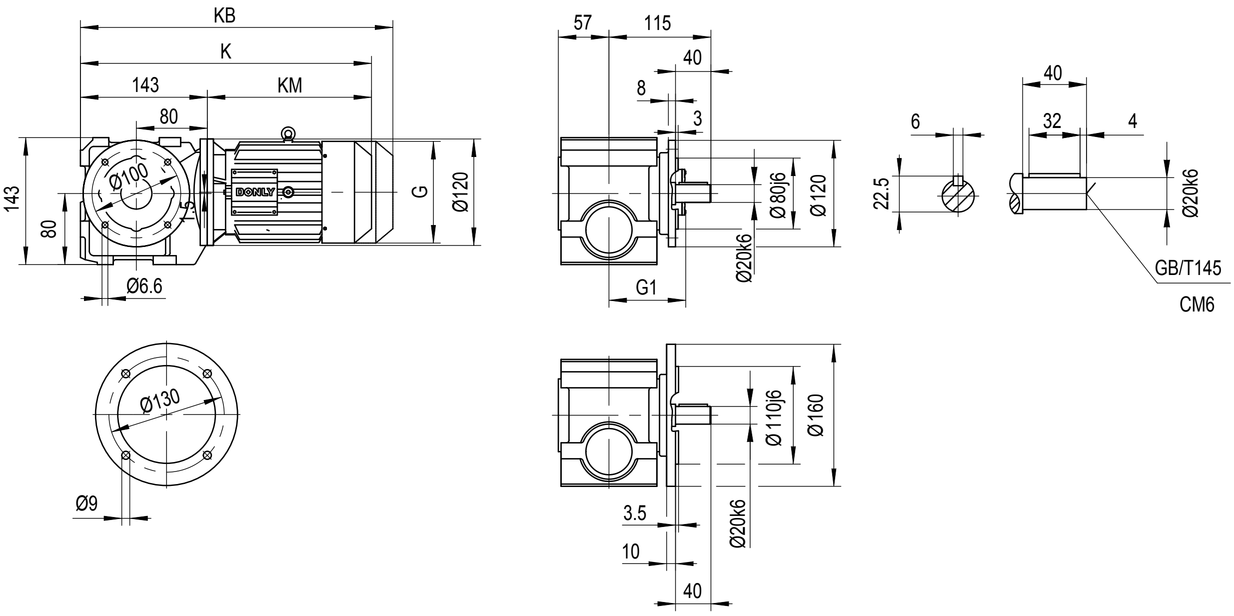
注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

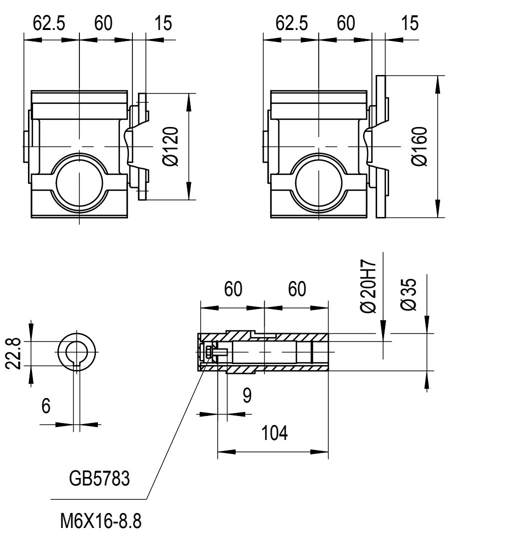
4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors

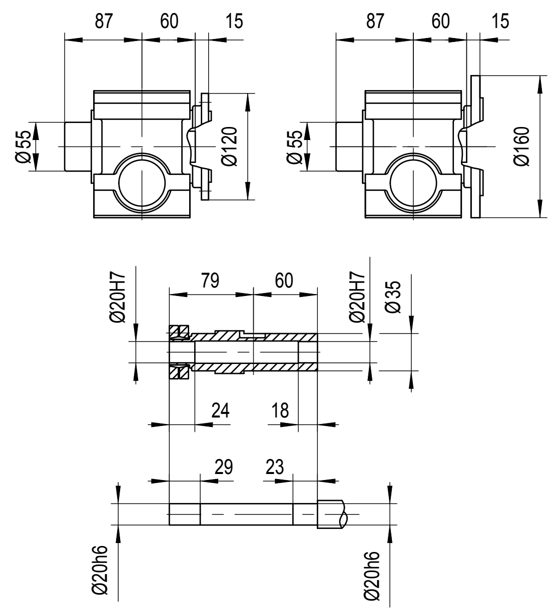
DLSF37..



DLSAF37..



DLSHF37..



	DE3-63	DE3-71	DE3-80	DE3-90S	DE3-90L	
G (AC)	Φ150	Φ150	150×150	170×170	170×170	
G1 (AD)	130	130	145	155	155	
K	398	398	448	443	473	
KB	463	463	523	513	553	
KM (LB)	255	255	305	300	330	

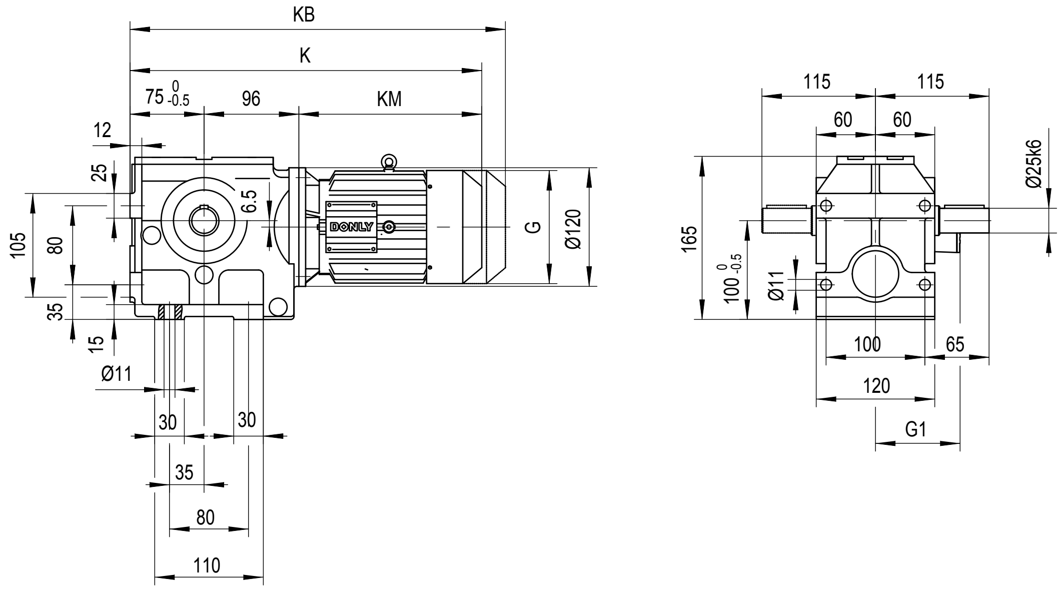
注：KB 为带制动器的长度。

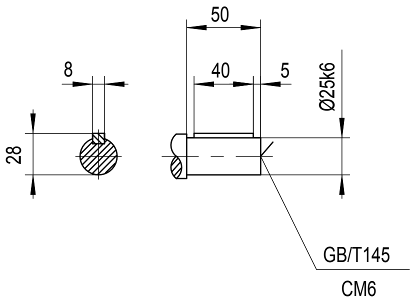
Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors

DLS47..





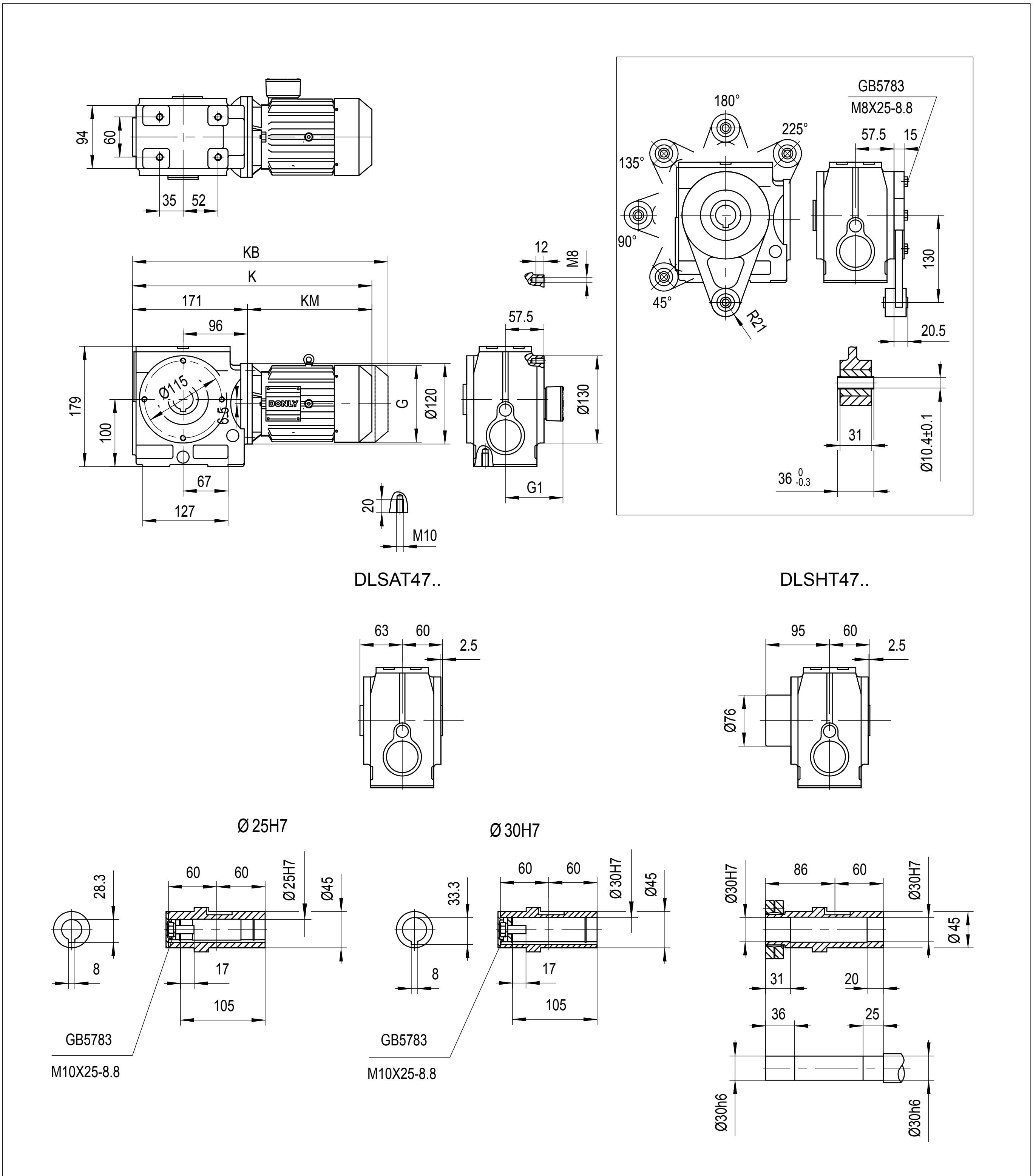
	DE3-63	DE3-71	DE3-80	DE3-90S	DE3-90L	
G (AC)	Φ150	Φ150	150×150	170×170	170×170	
G1 (AD)	130	130	145	155	155	
K	426	426	476	471	501	
KB	491	491	551	541	581	
KM (LB)	255	255	305	300	330	

注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors

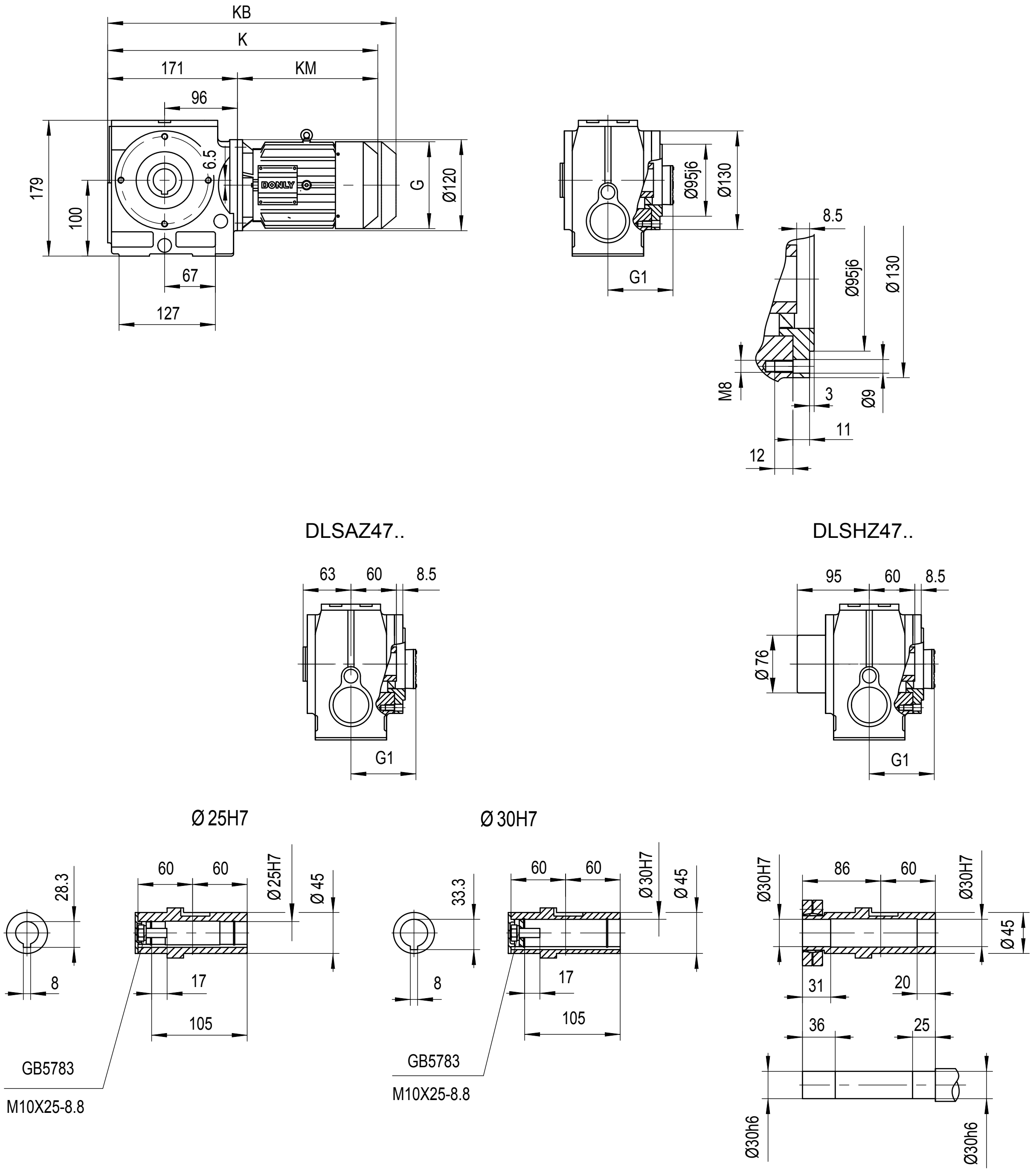


	DE3-63	DE3-71	DE3-80	DE3-90S	DE3-90L	
G (AC)	Φ150	Φ150	150×150	170×170	170×170	
G1 (AD)	130	130	145	155	155	
K	426	426	476	471	501	
KB	491	491	551	541	581	
KM (LB)	255	255	305	300	330	

注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表
4.2 Dimensions of DLS..DE3..gearmotors



	DE3-63	DE3-71	DE3-80	DE3-90S	DE3-90L	
G (AC)	Φ150	Φ150	150×150	170×170	170×170	
G1 (AD)	130	130	145	155	155	
K	426	426	476	471	501	
KB	491	491	551	541	581	
KM (LB)	255	255	305	300	330	

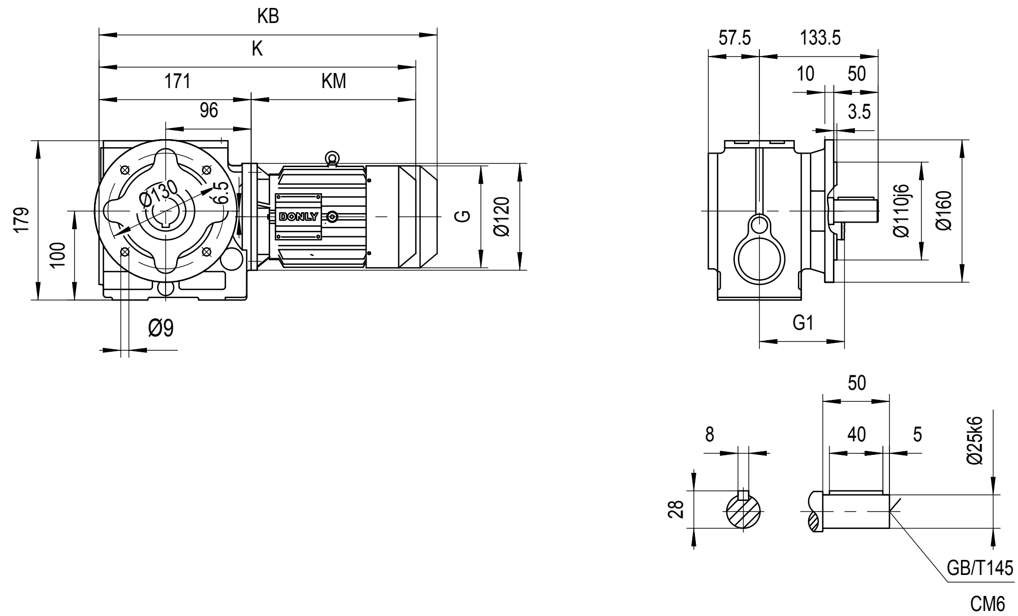
注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

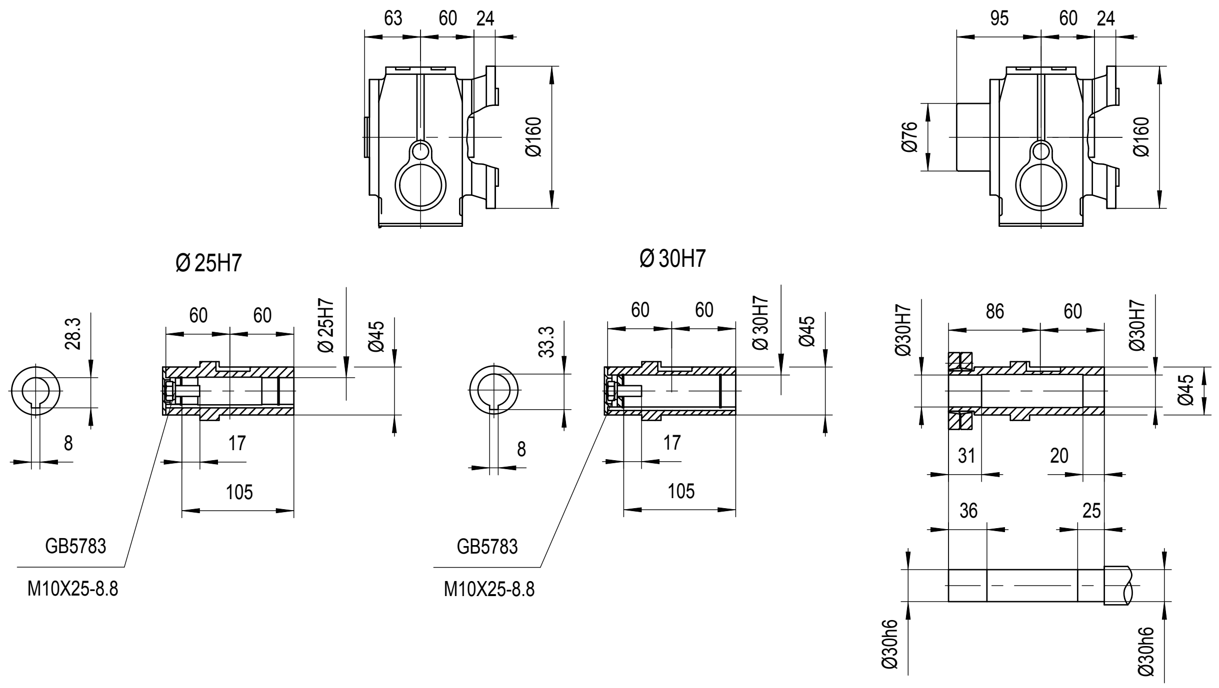
4.2 Dimensions of DLS..DE3..gearmotors

DLSF47..



DLSAF47..

DLSHF47..



	DE3-63	DE3-71	DE3-80	DE3-90S	DE3-90L	
G (AC)	Φ150	Φ150	150×150	170×170	170×170	
G1 (AD)	130	130	145	155	155	
K	426	426	476	471	501	
KB	491	491	551	541	581	
KM (LB)	255	255	305	300	330	

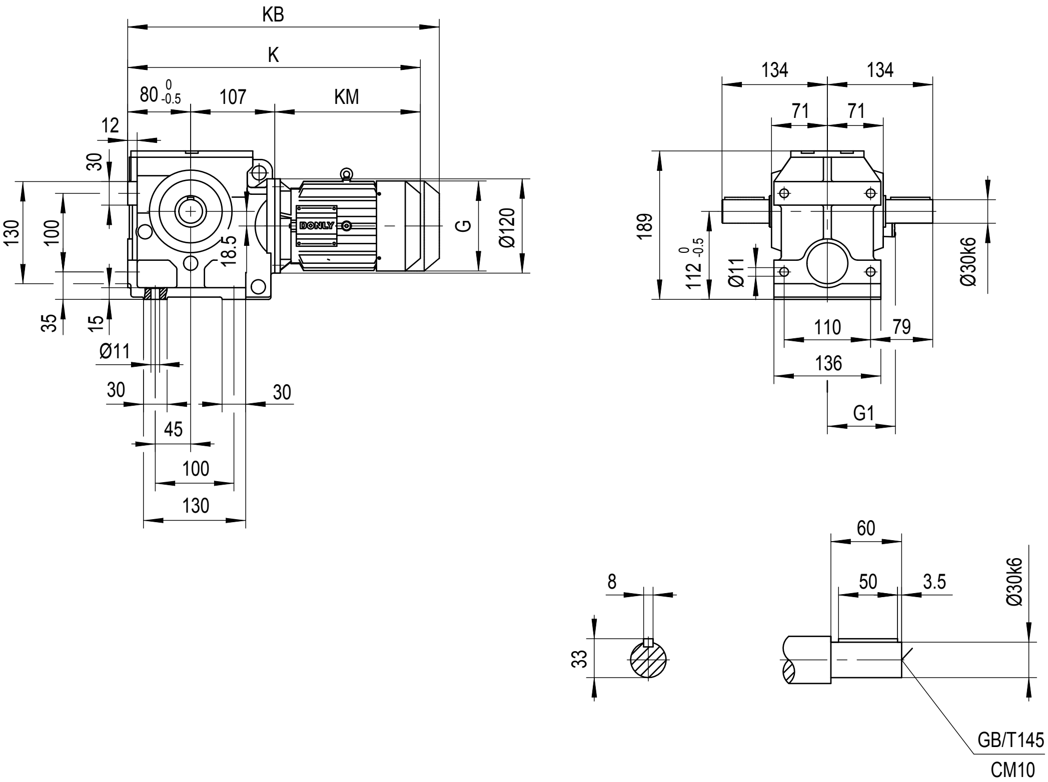
注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors

DLS57..



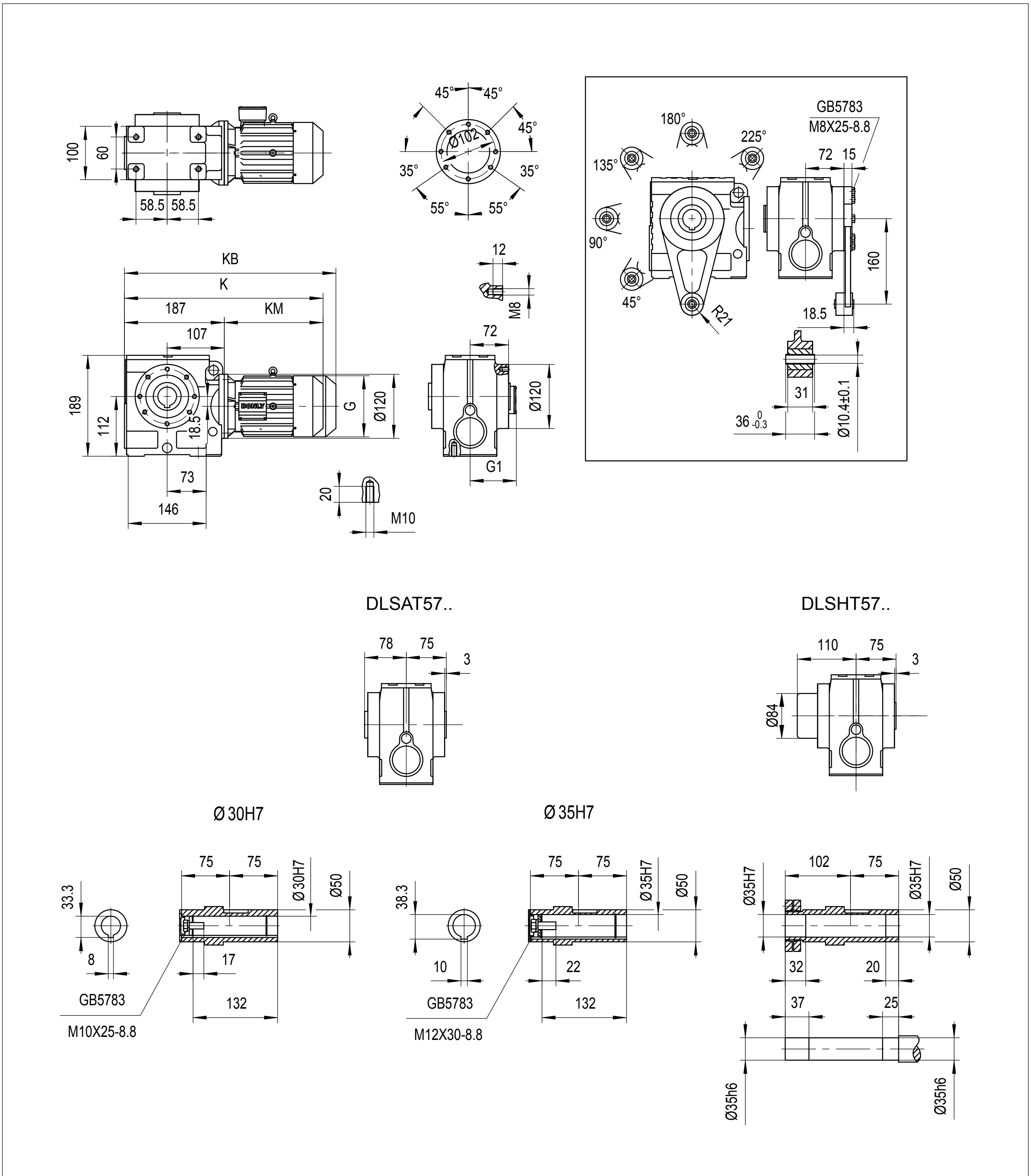
	DE3-63	DE3-71	DE3-80	DE3-90S	DE3-90L	DE3-100
G (AC)	Φ150	Φ150	150×150	170×170	170×170	191×191
G1 (AD)	130	130	145	155	155	165
K	442	442	492	487	517	582
KB	507	507	567	557	597	662
KM (LB)	255	255	305	300	330	395

注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors



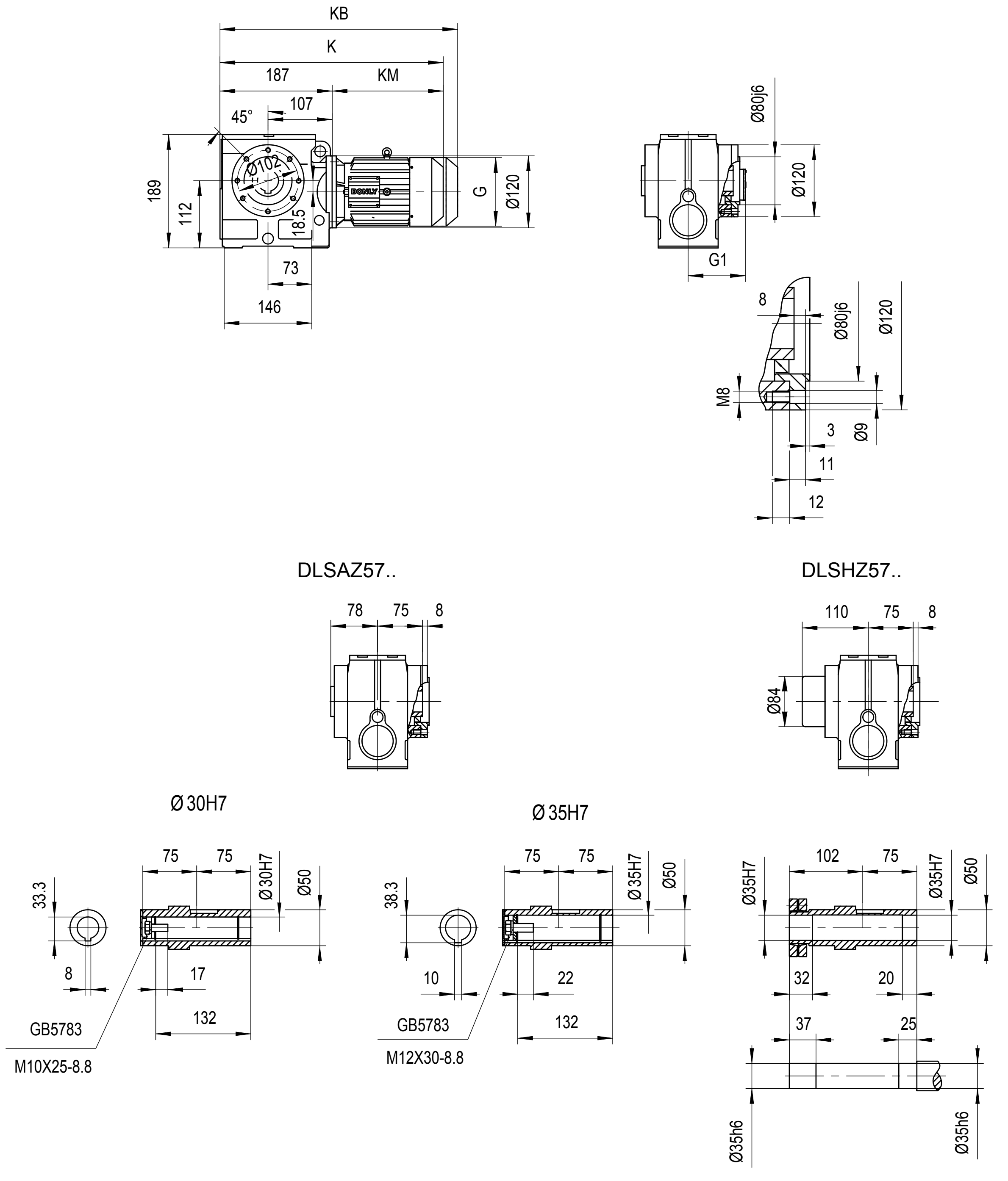
	DE3-63	DE3-71	DE3-80	DE3-90S	DE3-90L	DE3-100
G (AC)	Φ150	Φ150	150×150	170×170	170×170	191×191
G1 (AD)	130	130	145	155	155	165
K	442	442	492	487	517	582
KB	507	507	567	557	597	662
KM (LB)	255	255	305	300	330	395

注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors



	DE3-63	DE3-71	DE3-80	DE3-90S	DE3-90L	DE3-100
G (AC)	Φ150	Φ150	150×150	170×170	170×170	191×191
G1 (AD)	130	130	145	155	155	165
K	442	442	492	487	517	582
KB	507	507	567	557	597	662
KM (LB)	255	255	305	300	330	395

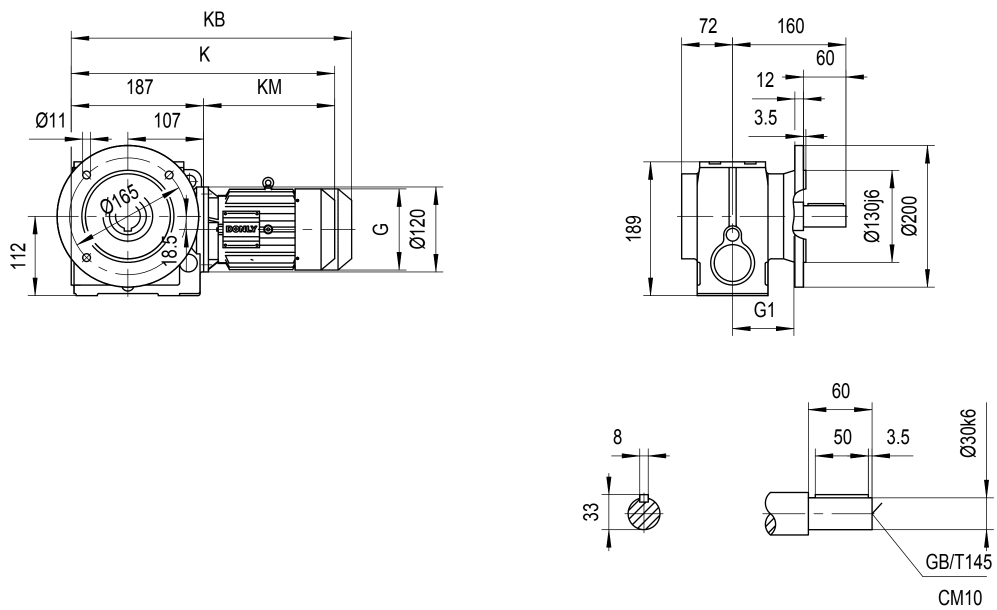
注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

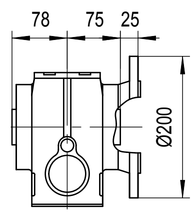
4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors

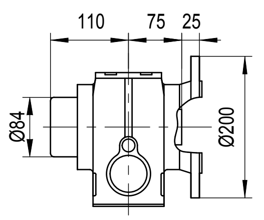
DLSF57..



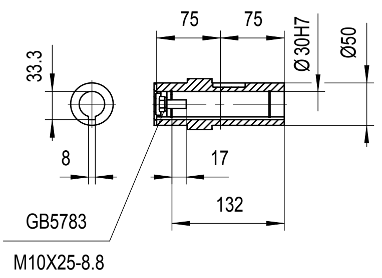
DLSAF57..



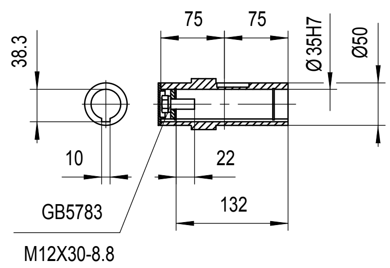
DLSHF57..

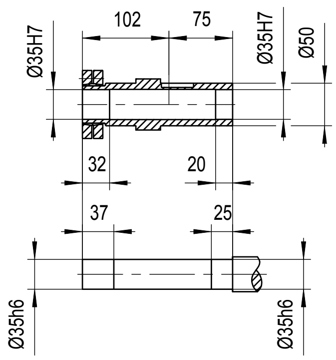


Ø 30H7



Ø 35H7





	DE3-63	DE3-71	DE3-80	DE3-90S	DE3-90L	DE3-100
G (AC)	Φ150	Φ150	150×150	170×170	170×170	191×191
G1 (AD)	130	130	145	155	155	165
K	442	442	492	487	517	582
KB	507	507	567	557	597	662
KM (LB)	255	255	305	300	330	395

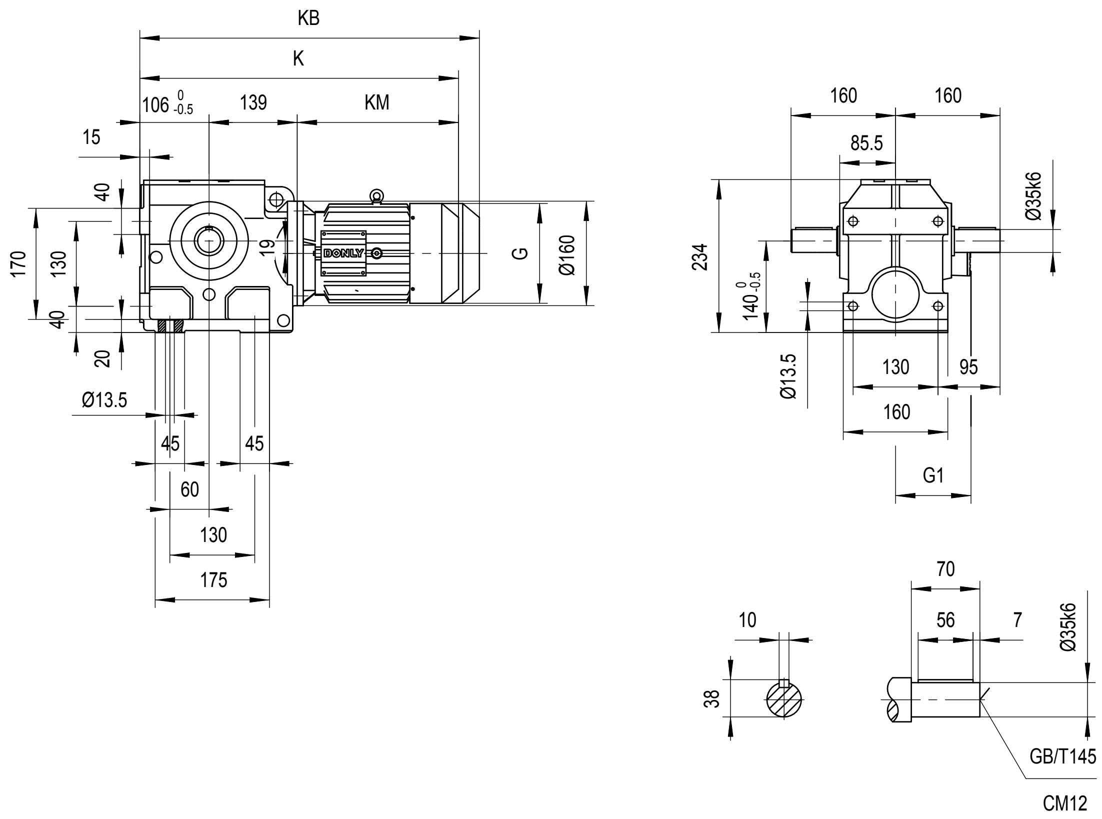
注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors

DLS67..

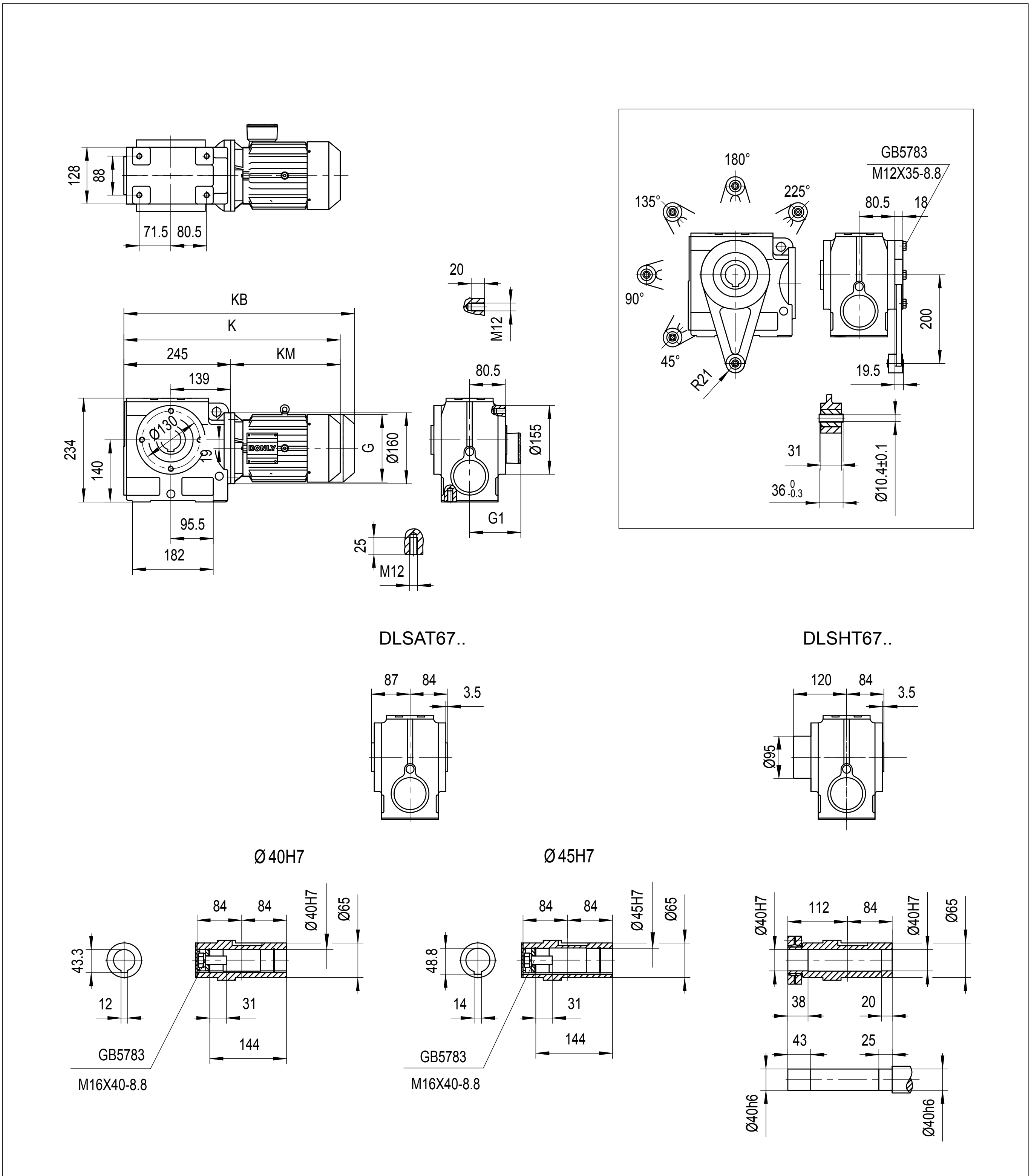


	DE3-63	DE3-71	DE3-80	DE3-90S	DE3-90L	DE3-100	DE3-112M	DE3-132S
G (AC)	Φ150	Φ150	150×150	170×170	170×170	191×191	215×215	255×255
G1 (AD)	130	130	145	155	155	165	175	195
K	510	510	550	545	575	640	665	740
KB	575	575	625	615	655	720	760	845
KM (LB)	260	260	300	295	325	390	415	490

注：KB 为带制动器的长度。　Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors



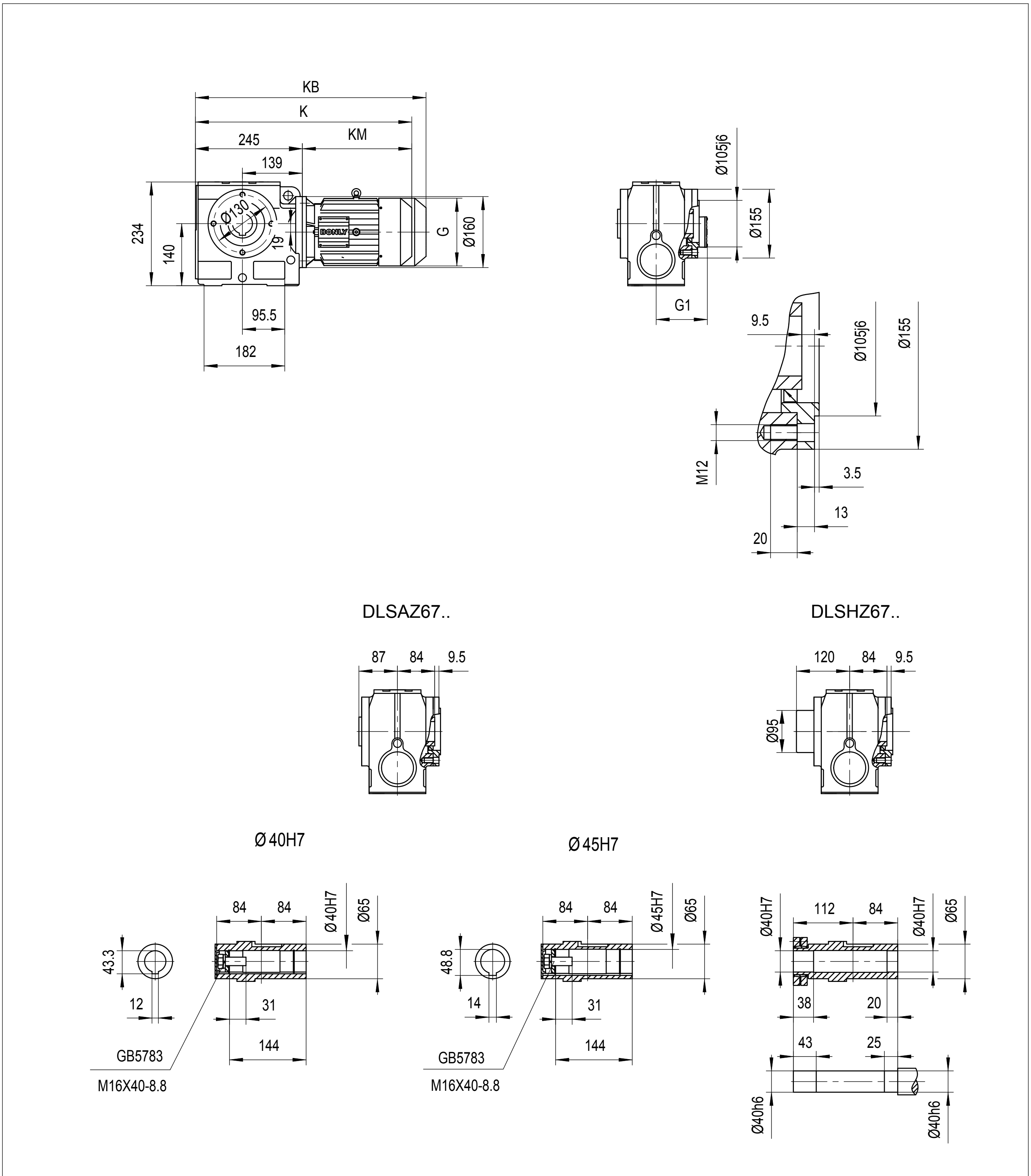
	DE3-63	DE3-71	DE3-80	DE3-90S	DE3-90L	DE3-100	DE3-112M	DE3-132S
G (AC)	Φ150	Φ150	150×150	170×170	170×170	191×191	215×215	255×255
G1 (AD)	130	130	145	155	155	165	175	195
K	510	510	550	545	575	640	665	740
KB	575	575	625	615	655	720	760	845
KM (LB)	260	260	300	295	325	390	415	490

注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors



	DE3-63	DE3-71	DE3-80	DE3-90S	DE3-90L	DE3-100	DE3-112M	DE3-132S
G (AC)	Φ150	Φ150	150×150	170×170	170×170	191×191	215×215	255×255
G1 (AD)	130	130	145	155	155	165	175	195
K	510	510	550	545	575	640	665	740
KB	575	575	625	615	655	720	760	845
KM (LB)	260	260	300	295	325	390	415	490

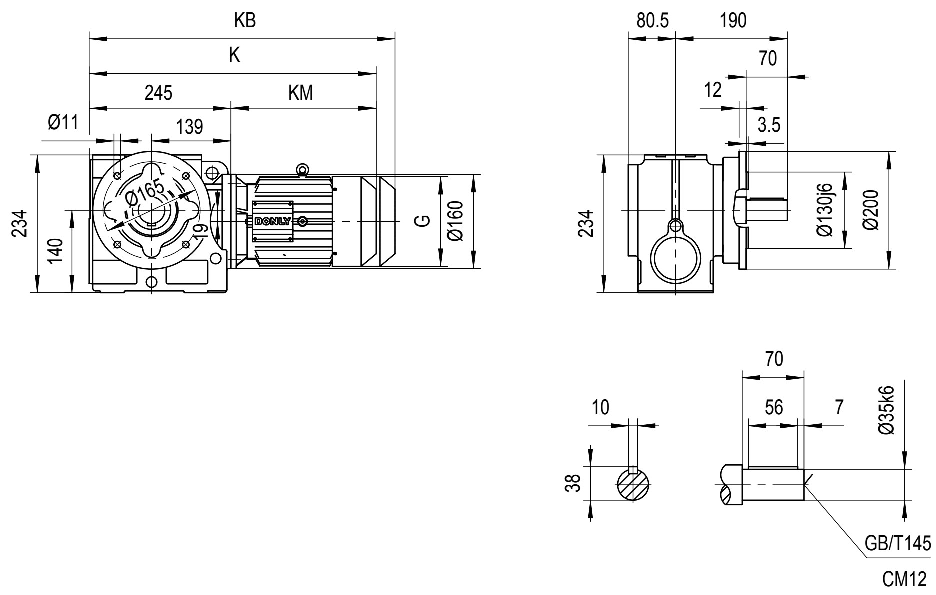
注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors

DLSF67..

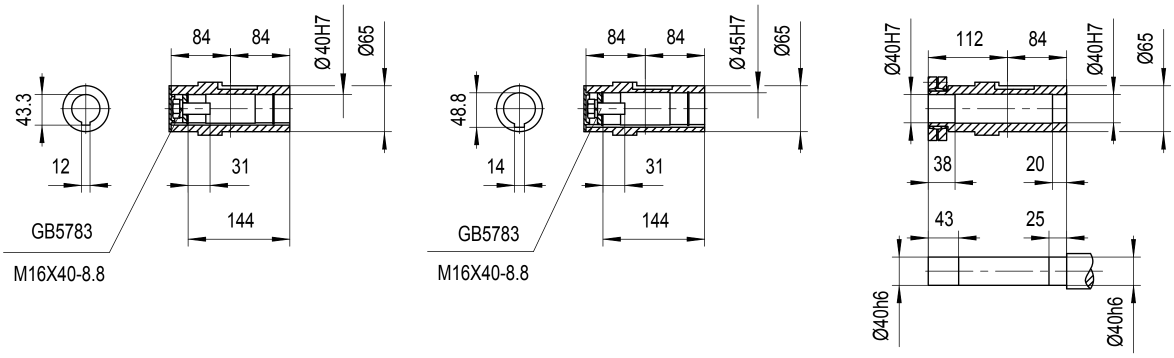


DLSAF67..

DLSHF67..

Ø40H7

Ø45H7



	DE3-63	DE3-71	DE3-80	DE3-90S	DE3-90L	DE3-100	DE3-112M	DE3-132S
G (AC)	Φ150	Φ150	150×150	170×170	170×170	191×191	215×215	255×255
G1 (AD)	130	130	145	155	155	165	175	195
K	510	510	550	545	575	640	665	740
KB	575	575	625	615	655	720	760	845
KM (LB)	260	260	300	295	325	390	415	490

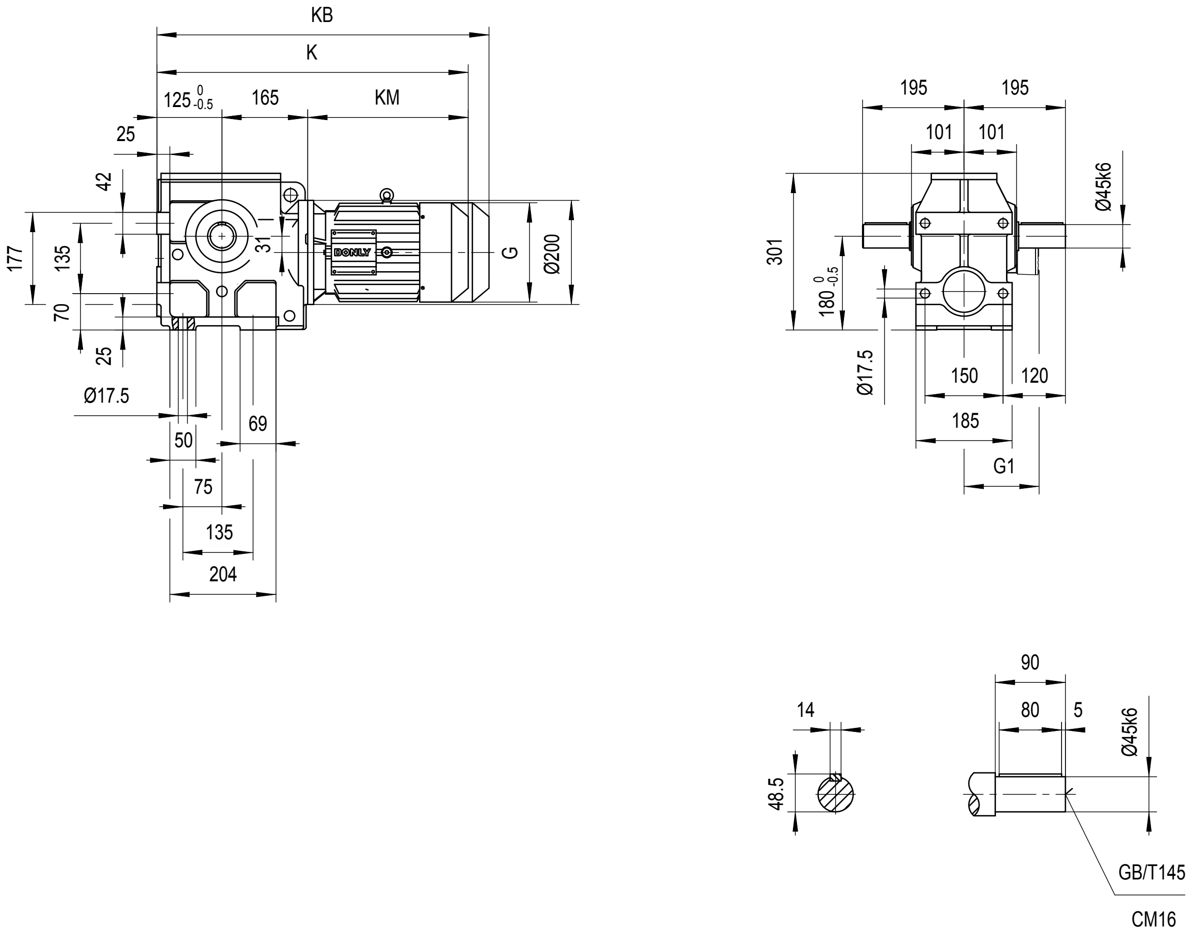
注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors

DLS77..



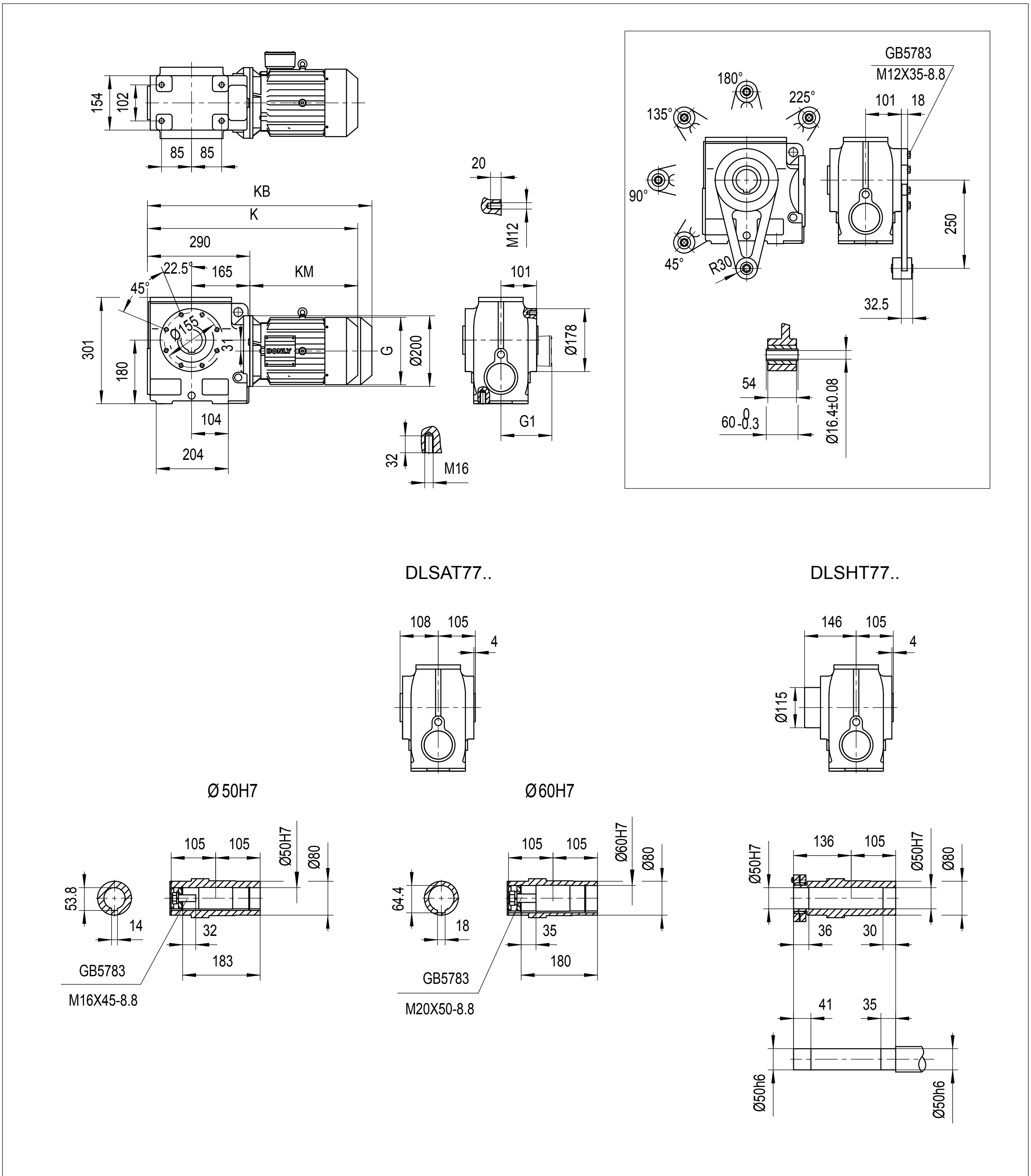
	DE3-80	DE3-90S	DE3-90L	DE3-100	DE3-112M	DE3-132S	DE3-132M	DE3-132L
G (AC)	150×150	170×170	170×170	191×191	215×215	255×255	255×255	255×255
G1 (AD)	145	155	155	165	175	195	195	195
K	580	575	605	670	690	770	770	795
KB	655	645	685	750	785	875	875	900
KM (LB)	290	285	315	380	400	480	480	505

注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors



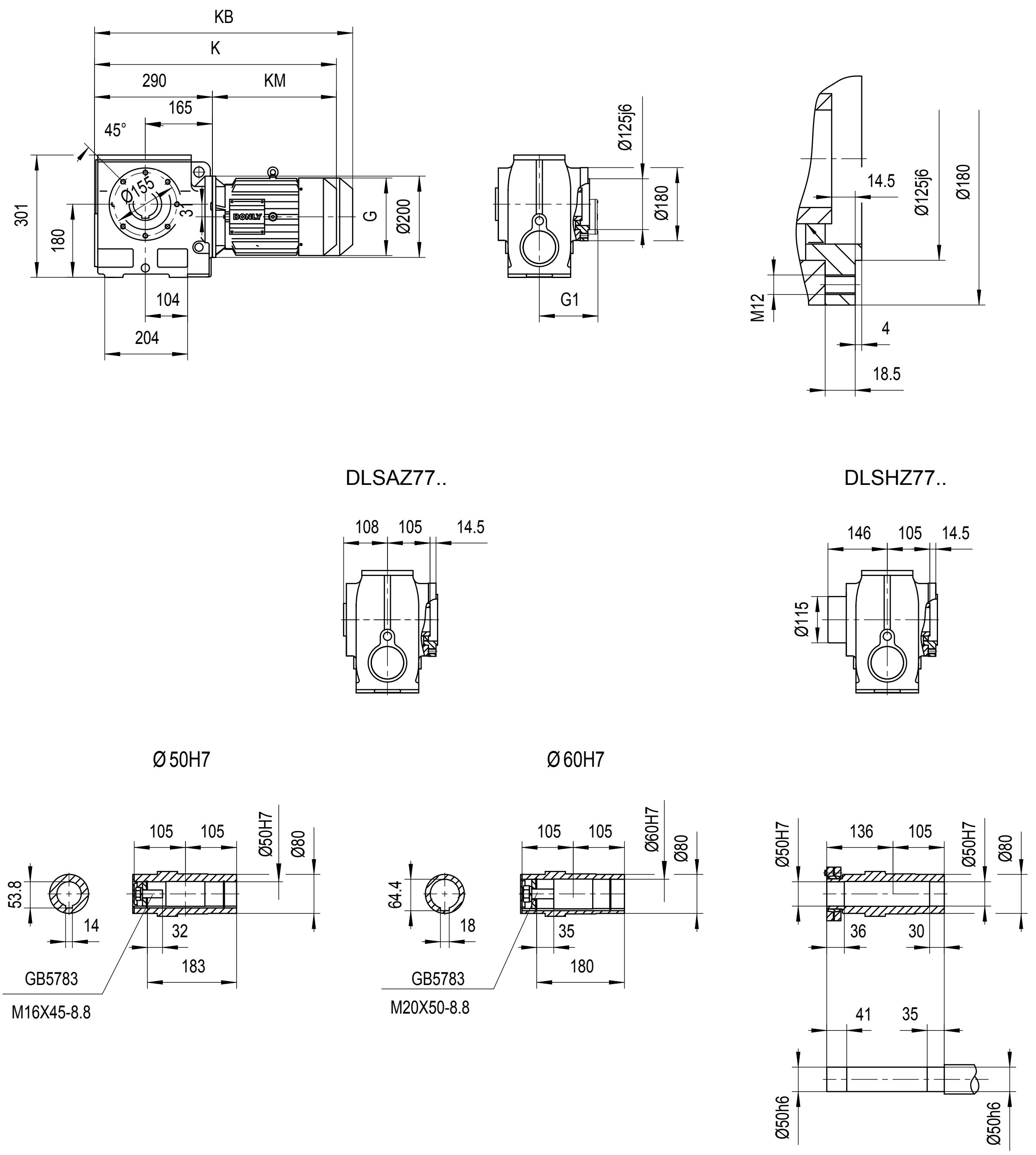
	DE3-80	DE3-90S	DE3-90L	DE3-100	DE3-112M	DE3-132S	DE3-132M	DE3-132L
G (AC)	150×150	170×170	170×170	191×191	215×215	255×255	255×255	255×255
G1 (AD)	145	155	155	165	175	195	195	195
K	580	575	605	670	690	770	770	795
KB	655	645	685	750	785	875	875	900
KM (LB)	290	285	315	380	400	480	480	505

注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors



	DE3-80	DE3-90S	DE3-90L	DE3-100	DE3-112M	DE3-132S	DE3-132M	DE3-132L
G (AC)	150×150	170×170	170×170	191×191	215×215	255×255	255×255	255×255
G1 (AD)	145	155	155	165	175	195	195	195
K	580	575	605	670	690	770	770	795
KB	655	645	685	750	785	875	875	900
KM (LB)	290	285	315	380	400	480	480	505

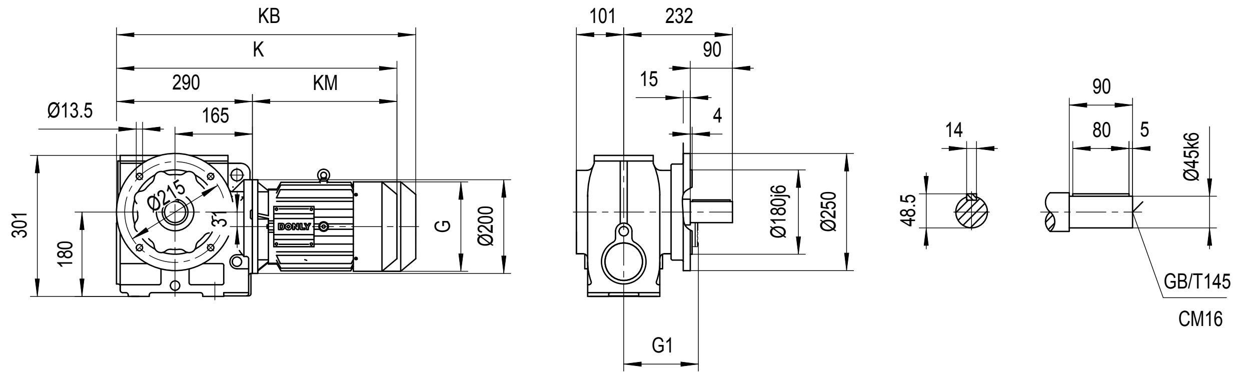
注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

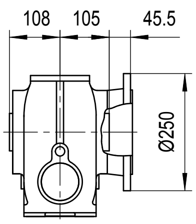
4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors

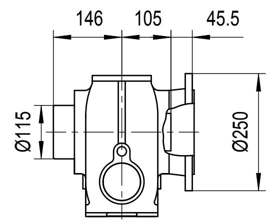
DLSF77..



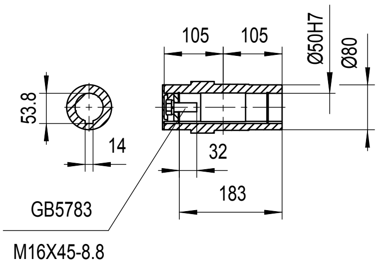
DLSAF77..



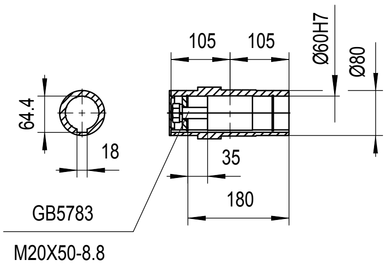
DLSHF77..

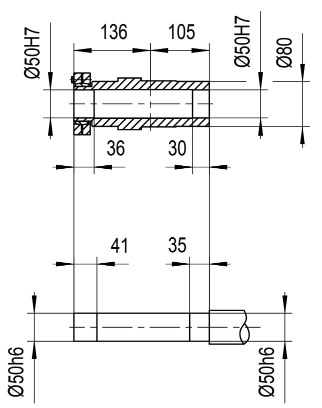


Ø50H7



Ø60H7





	DE3-80	DE3-90S	DE3-90L	DE3-100	DE3-112M	DE3-132S	DE3-132M	DE3-132L
G (AC)	150×150	170×170	170×170	191×191	215×215	255×255	255×255	255×255
G1 (AD)	145	155	155	165	175	195	195	195
K	580	575	605	670	690	770	770	795
KB	655	645	685	750	785	875	875	900
KM (LB)	290	285	315	380	400	480	480	505

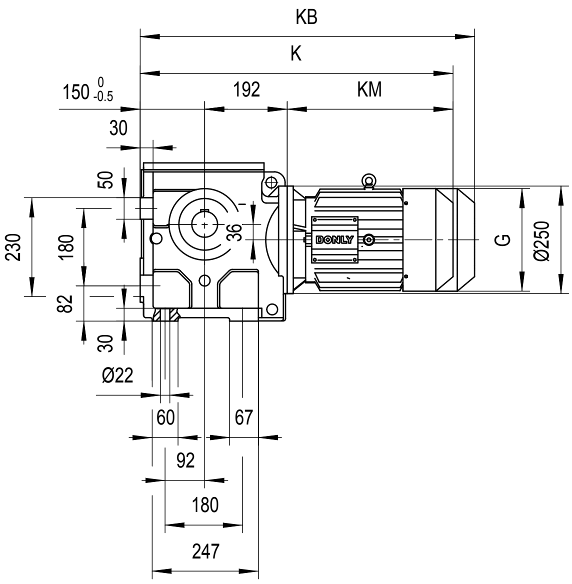
注：KB 为带制动器的长度。

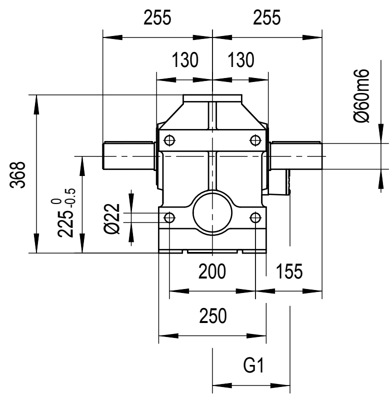
Note: KB is the length dimension with brake

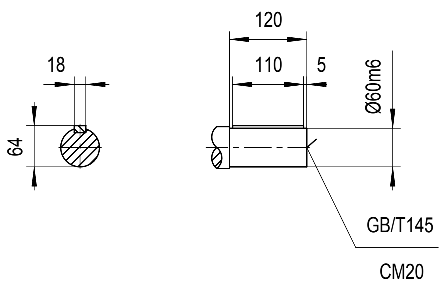
4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors

DLS87..







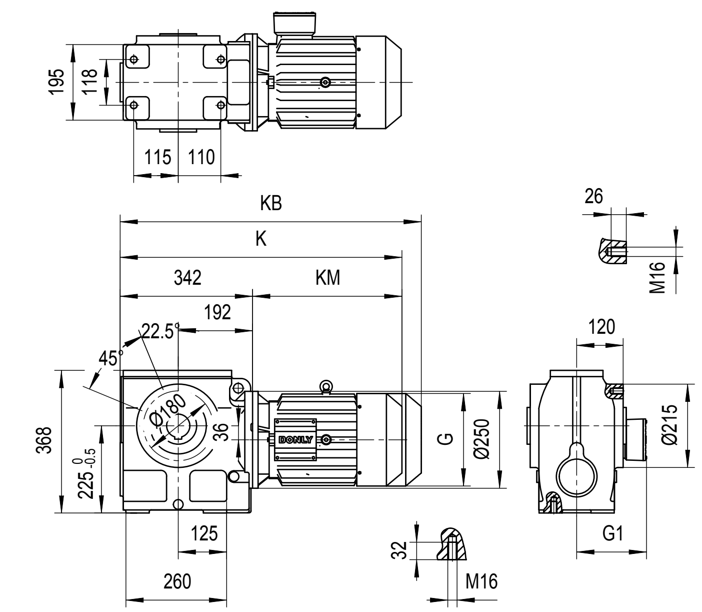
	DE3-80	DE3-90S	DE3-90L	DE3-100	DE3-112M	DE3-132S	DE3-132M	DE3-132L	DE3-160
G (AC)	150×150	170×170	170×170	191×191	215×215	255×255	255×255	255×255	310×310
G1 (AD)	145	155	155	165	175	195	195	195	240
K	627	627	657	717	742	817	817	842	907
KB	702	697	737	797	837	922	922	947	1032
KM (LB)	285	285	315	375	400	475	475	500	565

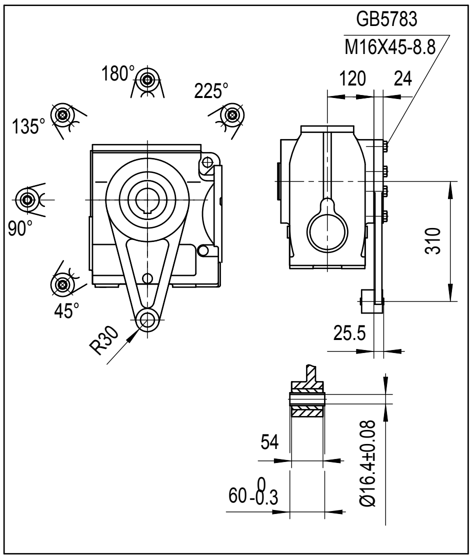
注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

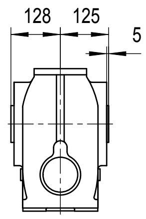
4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

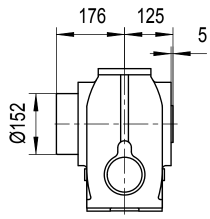
4.2 Dimensions of DLS..DE3..gearmotors



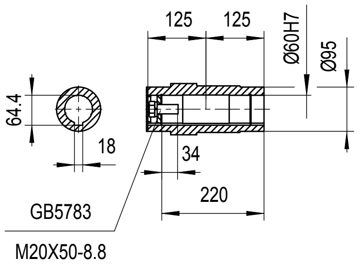


DLSAT87.. DLSHT87..

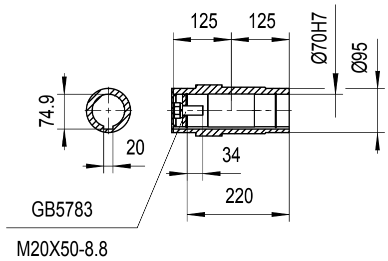


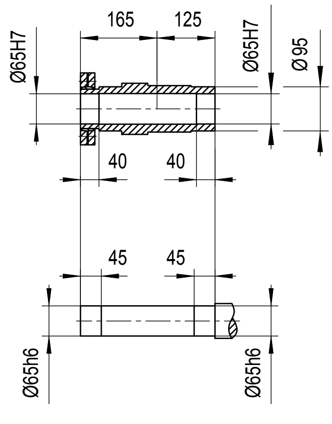


Ø60H7



Ø70H7





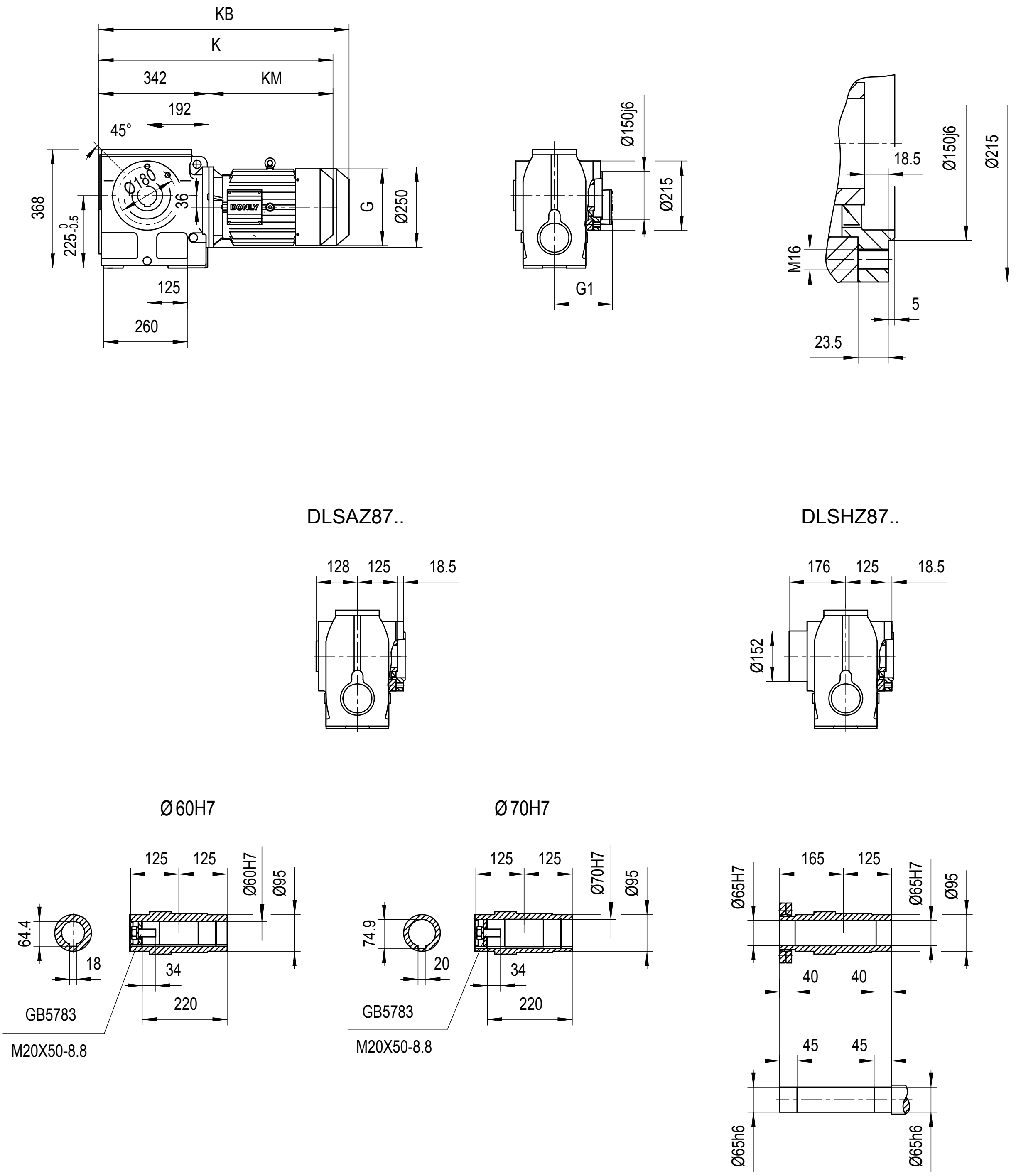
	DE3-80	DE3-90S	DE3-90L	DE3-100	DE3-112M	DE3-132S	DE3-132M	DE3-132L	DE3-160
G (AC)	150×150	170×170	170×170	191×191	215×215	255×255	255×255	255×255	310×310
G1 (AD)	145	155	155	165	175	195	195	195	240
K	627	627	657	717	742	817	817	842	907
KB	702	697	737	797	837	922	922	947	1032
KM (LB)	285	285	315	375	400	475	475	500	565

注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors



	DE3-80	DE3-90S	DE3-90L	DE3-100	DE3-112M	DE3-132S	DE3-132M	DE3-132L	DE3-160
G (AC)	150×150	170×170	170×170	191×191	215×215	255×255	255×255	255×255	310×310
G1 (AD)	145	155	155	165	175	195	195	195	240
K	627	627	657	717	742	817	817	842	907
KB	702	697	737	797	837	922	922	947	1032
KM (LB)	285	285	315	375	400	475	475	500	565

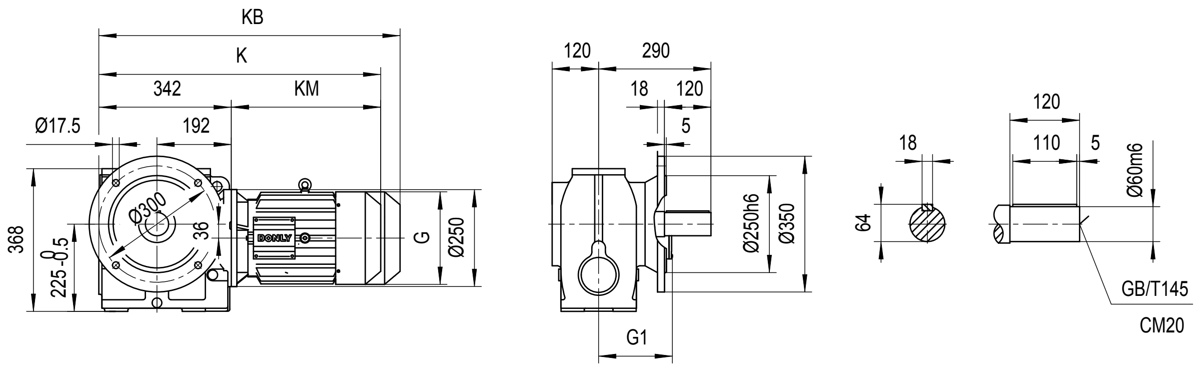
注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

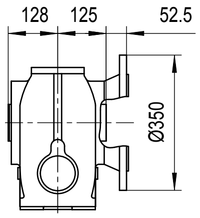
4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors

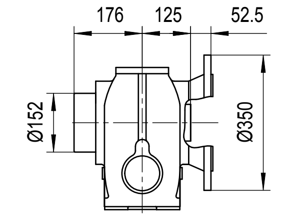
DLSF87..



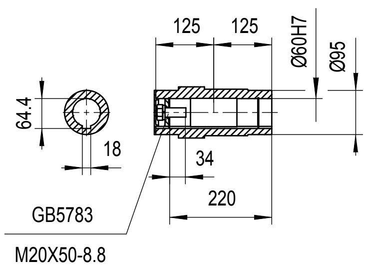
DLSAF87..



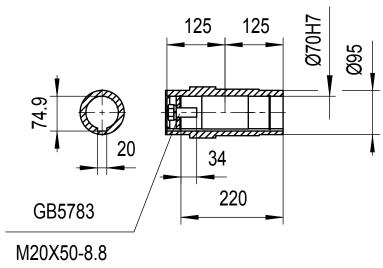
DLSHF87..

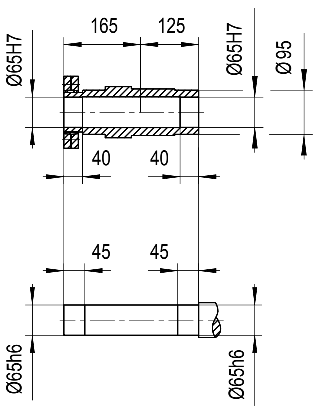


Ø60H7



Ø70H7





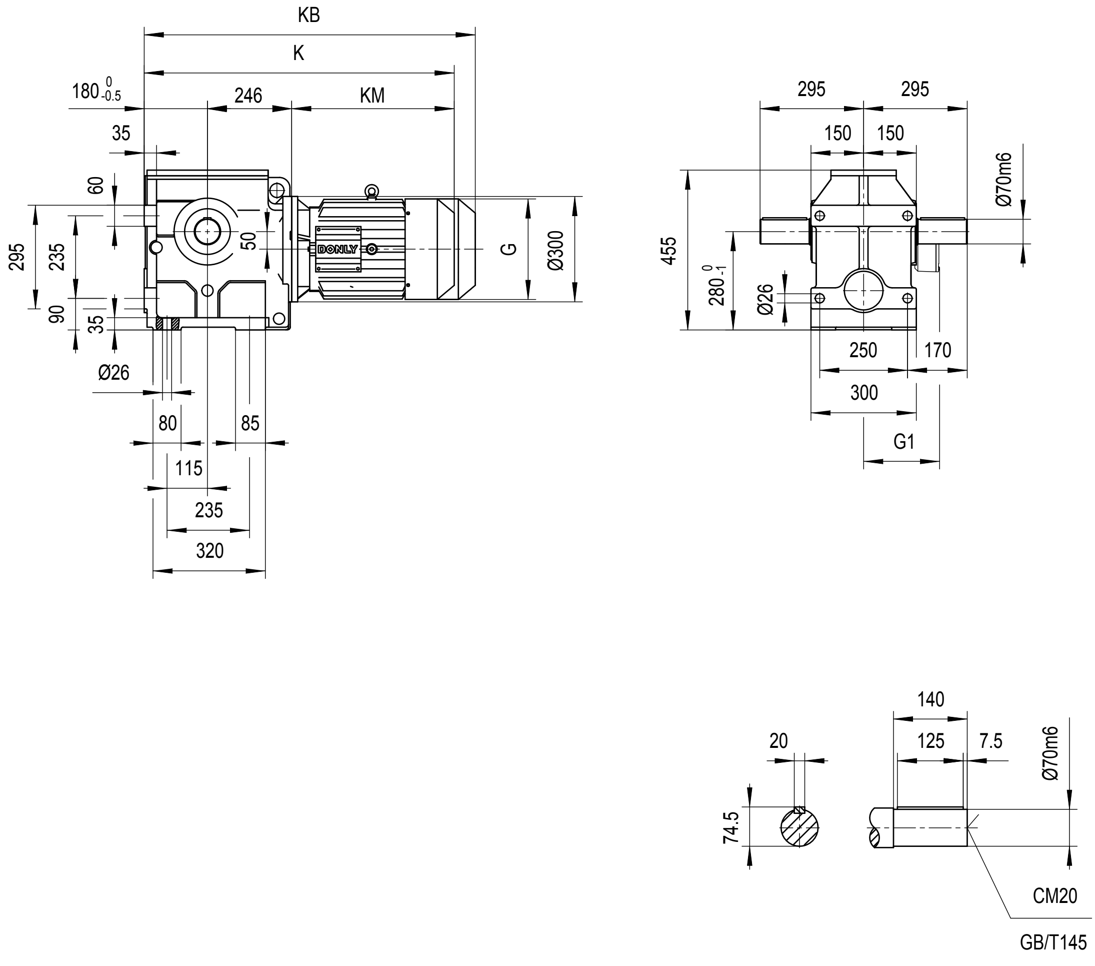
	DE3-80	DE3-90S	DE3-90L	DE3-100	DE3-112M	DE3-132S	DE3-132M	DE3-132L	DE3-160
G (AC)	150×150	170×170	170×170	191×191	215×215	255×255	255×255	255×255	310×310
G1 (AD)	145	155	155	165	175	195	195	195	240
K	627	627	657	717	742	817	817	842	907
KB	702	697	737	797	837	922	922	947	1032
KM (LB)	285	285	315	375	400	475	475	500	565

注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表　4.2 Dimensions of DLS..DE3..gearmotors

DLS97..



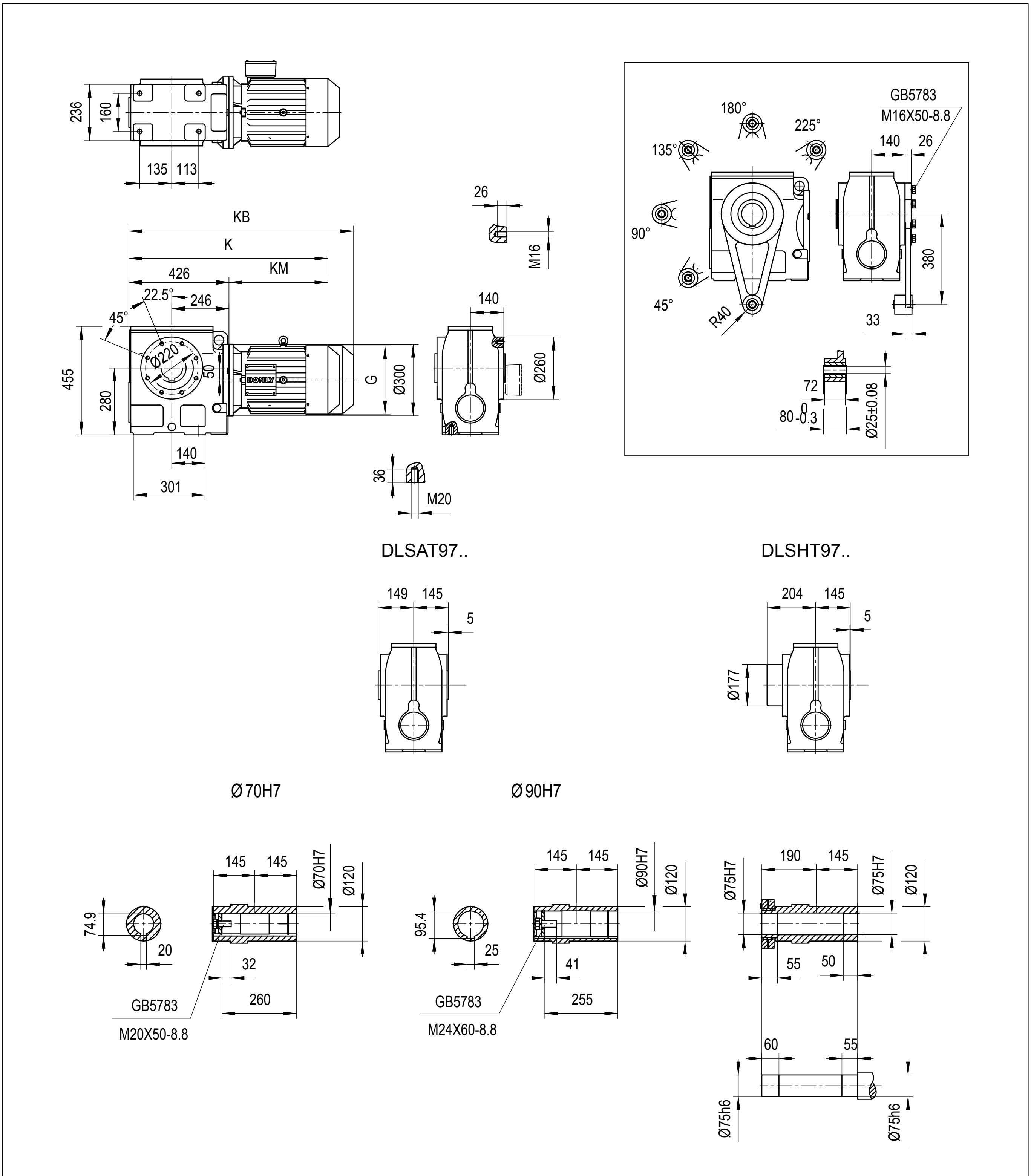
	DE3-90S	DE3-90L	DE3-100	DE3-112M	DE3-132S	DE3-132M	DE3-132L	DE3-160	DE3-180
G (AC)	170×170	170×170	191×191	215×215	255×255	255×255	255×255	310×310	348×348
G1 (AD)	155	155	165	175	195	195	195	240	260
K	701	731	791	816	891	891	916	986	1031
KB	769	809	869	909	994	994	1019	1109	1164
KM (LB)	275	305	365	390	465	465	490	560	605

注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors



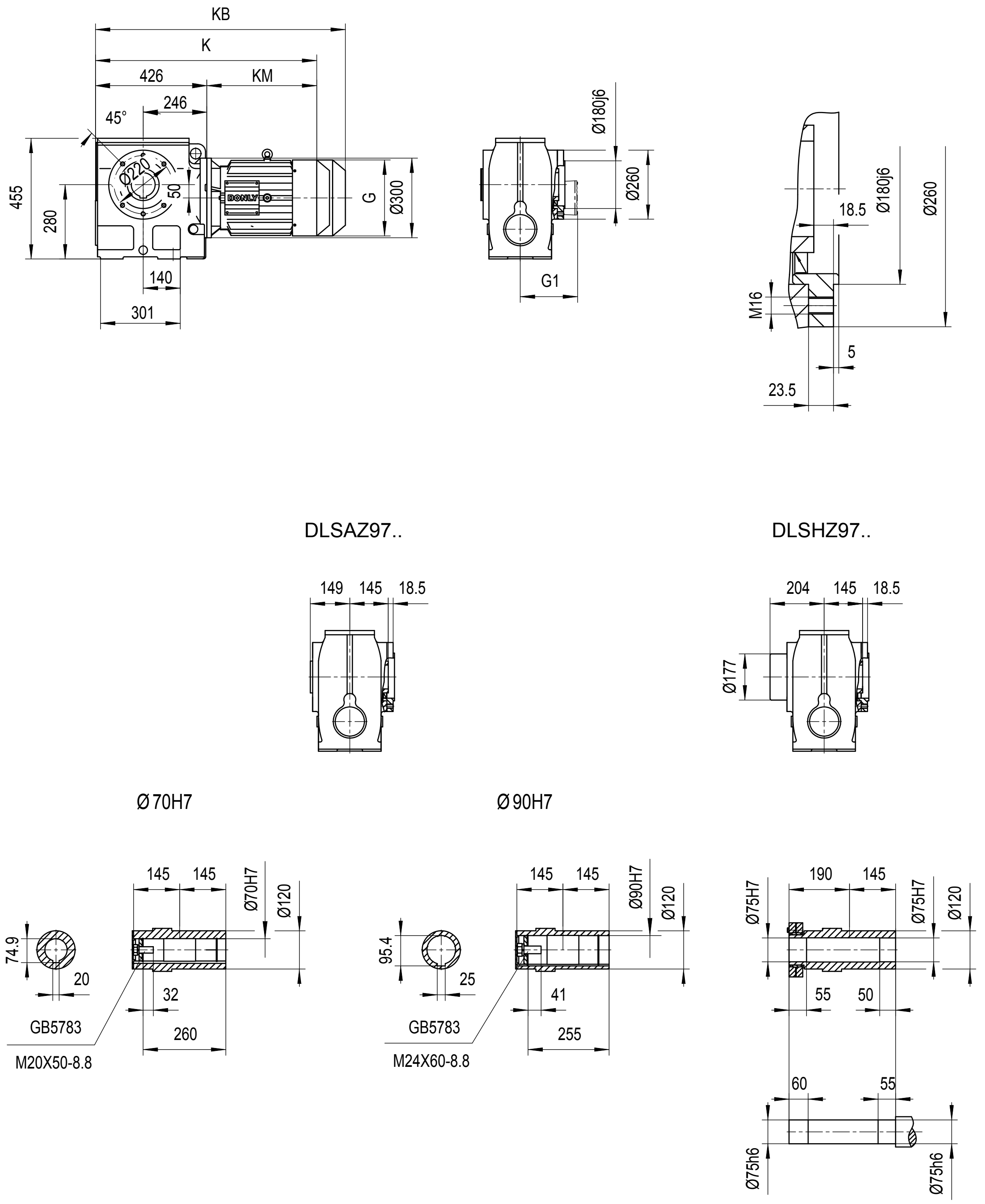
	DE3-90S	DE3-90L	DE3-100	DE3-112M	DE3-132S	DE3-132M	DE3-132L	DE3-160	DE3-180
G (AC)	170×170	170×170	191×191	215×215	255×255	255×255	255×255	310×310	348×348
G1 (AD)	155	155	165	175	195	195	195	240	260
K	701	731	791	816	891	891	916	986	1031
KB	769	809	869	909	994	994	1019	1109	1164
KM (LB)	275	305	365	390	465	465	490	560	605

注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors



	DE3-90S	DE3-90L	DE3-100	DE3-112M	DE3-132S	DE3-132M	DE3-132L	DE3-160	DE3-180
G (AC)	170×170	170×170	191×191	215×215	255×255	255×255	255×255	310×310	348×348
G1 (AD)	155	155	165	175	195	195	195	240	260
K	701	731	791	816	891	891	916	986	1031
KB	769	809	869	909	994	994	1019	1109	1164
KM (LB)	275	305	365	390	465	465	490	560	605

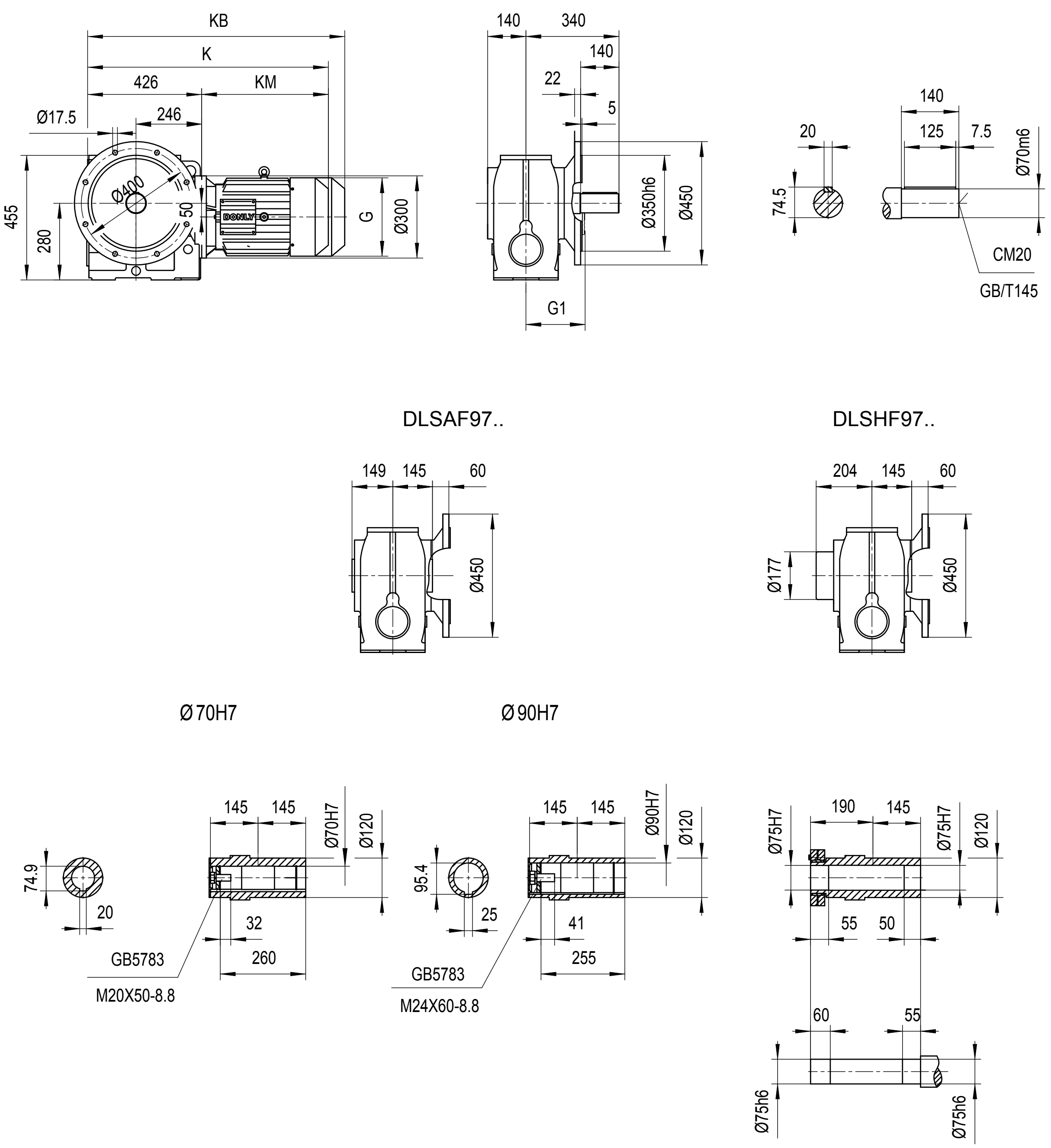
注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gearmotors

DLSF97..



	DE3-90S	DE3-90L	DE3-100	DE3-112M	DE3-132S	DE3-132M	DE3-132L	DE3-160	DE3-180
G (AC)	170×170	170×170	191×191	215×215	255×255	255×255	255×255	310×310	348×348
G1 (AD)	155	155	165	175	195	195	195	240	260
K	701	731	791	816	891	891	916	986	1031
KB	769	809	869	909	994	994	1019	1109	1164
KM (LB)	275	305	365	390	465	465	490	560	605

注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

4.3 DLS..S.. 双轴型减速机技术参数表 / 4.3 Selection tables of DLS..S..gearmotors (double shaft)

DLS37S.., ne=1450 1/min

减速比 Ratio i	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	功率 Power Pm [Kw]	径向力 Overhung load FRa* [N]	径向力 Overhung load FRe* [N]	规格 Size		重量 Weight [kg]
162.86 149.47 127.41 110.00 102.60 89.82	8.6 9.4 11 13 14 16	92 92 91 88 87 86	0.16 0.17 0.19 0.21 0.22 0.25	3000 3000 3000 3000 3000 3000	745 745 745 745 745 745	DL S37 DL SF37 DL SA37 DL SAF37	S1 S1 S1 S1	8.8 10 9.4 10
84.26 74.48 66.15 57.86	17 19 21 24	85 84 83 82	0.25 0.28 0.31 0.28	3000 3000 3000 3000	745 740 740 580	DL S37 DL SF37 DL SA37 DL SAF37	S1 S1 S1 S1	8.8 10 9.4 10
55.42	25	81	0.35	3000	1830	DL S37 DL SF37 DL SA37 DL SAF37	S2 S2 S2 S2	9.9 11 11 11
53.10 45.26 39.08 36.45 31.91 29.93 26.46 23.50 20.57	26 31 36 38 44 47 53 60 68	80 81 80 78 76 75 74 73 52	0.30 0.35 0.39 0.41 0.46 0.48 0.53 0.58 0.44	3000 3000 3000 3000 2870 2800 2660 2530 2470	575 560 560 555 555 550 540 530 335	DL S37 DL SF37 DL SA37 DL SAF37	S1 S1 S1 S1	8.8 10 9.4 10
19.69	71	52	0.49	2380	1750	DL S37 DL SF37 DL SA37 DL SAF37	S2 S2 S2 S2	9.9 11 11 11
18.88 16.09	74 87	52 50	0.48 0.54	2380 2240	320 325	DL S37 DL SF37 DL SA37 DL SAF37	S1 S1 S1 S1	8.8 10 9.4 10
13.89 12.96 11.35 10.64 9.41 8.36 7.00	101 108 123 132 149 168 200	49 48 48 47 46 45 43	0.61 0.63 0.72 0.75 0.82 0.91 1.04	2110 2060 1940 1900 1810 1730 1630	1510 1510 1480 1480 1460 1440 1660	DL S37 DL SF37 DL SA37 DL SAF37	S2 S2 S2 S2	9.9 11 11 11

* FRa 代表输出轴在中心点的许用径向力
FRe 代表输入轴在中心点的许用径向力

* FRa represent allowed radial force at the center point of the output shaft.
FRe represent allowed radial force at the center point of the input shaft

4.3 DLS..S.. 双轴型减速机技术参数表

4.3 Selection tables of DLS..S..gearmotors (double shaft)

DLS47S.., ne=1450 1/min

减速比 Ratio i	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	功率 Power Pm [Kw]	径向力 Overhung load FRa* [N]	径向力 Overhung load FRe* [N]	规格 Size		重量 Weight [kg]
207.00	6.8	170	0.22	5340	695			
190.40	7.4	170	0.23	5340	690			
163.06	8.6	170	0.27	5340	685			
141.47	9.9	168	0.30	5350	685	DL S47	S1	12
132.30	11	168	0.32	5350	680	DL SF47	S1	16
116.45	12	168	0.36	5350	670	DL SA47	S1	14
97.44	14	168	0.42	5350	660	DL SAF47	S1	16
87.11	16	167	0.46	5360	655			
75.25	19	167	0.52	5360	640			
70.56	20	155	0.51	5360	630			
						DL S47	S2	13
58.43	24	165	0.65	5320	1780	DL SF47	S2	17
						DL SA47	S2	15
						DL SAF47	S2	17
						DL S47	S1	12
48.84	29	155	0.60	4850	360	DL SF47	S1	16
45.68	31	155	0.65	4710	350	DL SA47	S1	14
						DL SAF47	S1	16
40.20	35	155	0.72	4430	1500			
33.64	42	155	0.86	4120	1480			
30.07	47	155	0.96	3920	1450			
25.98	54	155	1.1	3650	1660			
24.36	57	152	1.1	3570	1660			
20.17	69	152	1.4	3370	1660	DL S47	S2	13
18.19	77	110	1.0	3160	1560	DL SF47	S2	17
17.01	82	110	1.1	3060	1560	DL SA47	S2	15
14.97	94	110	1.2	2850	1540	DL SAF47	S2	17
12.53	112	109	1.4	2650	1530			
11.20	125	109	1.6	2500	1510			
9.68	145	109	1.9	2310	1490			
9.07	154	109	2.0	2230	1480			
7.51	186	103	2.3	2110	1470			

* FRa 代表输出轴在中心点的许用径向力
FRe 代表输入轴在中心点的许用径向力

* FRa represent allowed radial force at the center point of the output shaft.
FRe represent allowed radial force at the center point of the input shaft

4.3 DLS..S.. 双轴型减速机技术参数表

4.3 Selection tables of DLS..S..gearmotors (double shaft)

DLS57S.., ne=1450 1/min

减速比 Ratio i	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	功率 Power Pm [Kw]	径向力 Overhung load FRa* [N]	径向力 Overhung load FRe* [N]	规格 Size		重量 Weight [kg]
207.00	6.8	295	0.36	7130	475			
190.40	7.4	295	0.39	7130	475			
163.06	8.6	295	0.44	7130	465	DL S57	S1	17
141.47	9.9	295	0.50	7130	455	DL SF57	S1	18
132.30	11	295	0.54	7130	450	DL SA57	S1	15
116.45	12	295	0.60	7130	430	DL SAF57	S1	18
97.44	14	295	0.70	7130	415			
87.11	16	295	0.78	7130	400			
						DL S57	S2	18
75.25	19	295	0.88	7170	1590	DL SF57	S2	19
70.56	20	295	0.94	7220	1590	DL SA57	S2	16
58.43	24	265	0.99	7370	1710	DL SAF57	S2	19
48.84	29	265	1.0	7400	1580			
45.68	31	245	1.0	7520	1580			
40.20	35	245	1.1	7320	1560			
33.64	42	245	1.3	6840	1550			
30.07	47	245	1.5	6520	1530			
25.98	54	245	1.7	6100	1510			
24.36	57	245	1.8	5930	1500	DL S57	S2	18
20.17	69	168	1.5	5720	1530	DL SF57	S2	19
18.19	77	168	1.6	5500	1430	DL SA57	S2	16
17.01	82	168	1.7	5200	1360	DL SAF57	S2	19
14.97	94	169	1.9	4860	1320			
12.53	112	169	2.2	4520	1300			
11.20	125	169	2.5	4290	1280			
9.68	145	169	2.9	3990	1240			
9.07	154	166	3.0	3900	1230			
7.51	186	146	3.2	3790	1260			

* FRa 代表输出轴在中心点的许用径向力
FRe 代表输入轴在中心点的许用径向力

* FRa represent allowed radial force at the center point of the output shaft.
FRe represent allowed radial force at the center point of the input shaft

4.3 DLS..S.. 双轴型减速机技术参数表

4.3 Selection tables of DLS..S..gearmotors (double shaft)

DLS67S.., ne=1450 1/min

减速比 Ratio i	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	功率 Power Pm [Kw]	径向力 Overhung load FRa* [N]	径向力 Overhung load FRe* [N]	规格 Size		重量 Weight [kg]
201.16	7.0	520	0.61	8680	1520	DL S67	S2	30
189.00	7.4	520	0.65	8680	1510	DL SF67	S2	34
168.00	8.3	520	0.73	8680	1510	DL SA67	S2	30
142.80	9.8	520	0.83	8680	1499	DL SAF67	S2	34
129.11	11	520	0.92	8680	1460			
112.00	13	520	1.03	8680	1450			
105.84	13	520	1.09	8680	1670	DL S67	S2	30
93.13	15	520	1.22	8680	1660	DL SF67	S2	34
84.00	17	520	1.33	8680	1650	DL SA67	S2	30
73.04	19	480	1.42	9020	1640	DL SAF67	S2	34
63.84	22	480	1.60	9020	1630			
58.00	24	480	1.52	8850	2630	DL S67	S3	32
						DL SF67	S3	36
						DL SA67	S3	32
						DL SAF67	S3	36
49.30	28	480	1.8	8120	1400			
44.57	31	480	1.9	8060	1400			
38.67	36	480	2.2	7690	1390	DL S67	S2	30
36.54	38	480	2.3	7250	1380	DL SF67	S2	34
32.15	44	480	2.6	7060	1350	DL SA67	S2	30
29.00	48	480	2.9	6540	1330	DL SAF67	S2	34
25.21	56	480	3.4	6240	1130			
22.04	64	340	2.7	5890	1090			
21.60	65	340	2.6	5760	2350	DL S67	S3	32
						DL SF67	S3	36
						DL SA67	S3	32
						DL SAF67	S3	36
18.36	76	340	3.1	5080	1060	DL S67	S2	30
16.60	84	340	3.4	4820	1030	DL SF67	S2	34
14.40	97	340	3.9	4510	1010	DL SA67	S2	30
13.61	103	340	4.1	4310	990	DL SAF67	S2	34
11.97	117	340	4.6	3660	1950	DL S67	S3	32
10.80	130	340	5.1	3290	1920	DL SF67	S3	36
9.39	149	335	5.8	2860	1870	DL SA67	S3	32
8.21	171	295	5.8	3220	1940	DL SAF67	S3	36

* FRa 代表输出轴在中心点的许用径向力
FRe 代表输入轴在中心点的许用径向力

* FRa represent allowed radial force at the center point of the output shaft.
FRe represent allowed radial force at the center point of the input shaft

4.3 DLS..S.. 双轴型减速机技术参数表

4.3 Selection tables of DLS..S..gearmotors (double shaft)

DLS77S.., ne=1450 1/min

减速比 Ratio i	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	功率 Power Pm [Kw]	径向力 Overhung load FRa* [N]	径向力 Overhung load FRe* [N]	规格 Size		重量 Weight [kg]
222.00	6.3	1270	1.3	11700	1520			
198.18	7.1	1270	1.4	11700	1500			
169.60	8.3	1270	1.6	11800	1490			
154.07	9.1	1240	1.7	12200	1490			
135.00	10	1210	1.9	12200	1490			
128.00	11	1200	2.0	12300	1490			
111.30	13	1170	2.2	12600	1490	DL S77	S2	56
102.86	14	1140	2.3	12800	1480	DL SF77	S2	61
90.43	15	1100	2.5	13100	1480	DL SA77	S2	55
80.00	18	1100	2.8	12800	1470	DL SAF77	S2	61
71.11	20	1100	3.1	11900	1100			
66.06	21	1040	2.7	10900	1050			
56.53	25	990	3.0	10100	1020			
51.36	27	1100	3.7	9650	1010			
45.00	31	1100	4.2	9010	980			
42.67	33	1100	4.4	8750	970			
37.10	38	1100	5.1	8140	1970			
34.29	41	1100	5.4	7730	1940			
30.14	46	1090	6.1	7370	1930			
26.67	53	1050	6.6	7010	1910			
23.70	59	705	5.0	5970	1690	DL S77	S3	57
21.83	64	705	5.3	5390	1670	DL SF77	S3	63
19.13	73	930	7.9	4550	1640	DL SA77	S3	57
18.13	77	930	8.3	4130	1610	DL SAF77	S3	63
15.77	89	710	7.3	3320	1550			
14.57	96	710	7.8	2710	1490			
12.81	109	720	9.1	1800	1400			
						DL S77	S4	62
11.33	124	720	10.1	1130	3330	DL SF77	S4	67
10.07	139	720	11.4	420	3250	DL SA77	S4	61
8.50	165	680	12.7	445	3240	DL SAF77	S4	67

* FRa 代表输出轴在中心点的许用径向力
FRe 代表输入轴在中心点的许用径向力

* FRa represent allowed radial force at the center point of the output shaft.
FRe represent allowed radial force at the center point of the input shaft

4.3 DLS..S.. 双轴型减速机技术参数表

4.3 Selection tables of DLS..S..gearmotors (double shaft)

DLS87S.., ne=1450 1/min

减速比 Ratio i	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	功率 Power Pm [Kw]	径向力 Overhung load FRa* [N]	径向力 Overhung load FRe* [N]	规格 Size		重量 Weight [kg]
263.64	5.3	2280	1.8	27900	1400			
227.20	6.2	2280	2.1	27900	1390			
207.41	6.8	2260	2.2	28000	1390			
182.00	7.7	2210	2.5	28100	1390			
153.04	9.1	2150	2.8	28200	1390			
140.95	9.9	2100	3.0	28300	1380	DL S87	S2	93
125.22	11	2060	3.3	28300	1380	DL SF87	S2	103
112.00	13	2000	3.5	28400	1370	DL SA87	S2	85
100.74	14	1960	3.8	28500	1060	DL SAF87	S2	103
87.69	16	1880	4.2	28600	1360			
78.57	18	1820	4.5	28700	1350			
71.95	19	1600	3.8	29000	960			
65.68	21	1600	4.2	28900	2270			
57.63	24	1600	4.7	29000	930			
48.46	29	1600	5.6	29000	1840			
44.63	31	1600	6.0	29000	1810	DL S87	S3	96
39.65	35	1600	6.7	28200	1780	DL SF87	S3	105
35.47	39	1600	7.5	27100	1740	DL SA87	S3	87
31.90	44	1600	8.4	26000	1700	DL SAF87	S3	105
27.77	50	1600	9.5	24700	1640			
24.88	56	1240	8.2	23700	3610			
21.68	65	1240	9.2	21800	3270			
20.77	67	1240	9.8	22100	3510			
19.97	70	1240	10.0	21100	3220	DL S87	S4	101
17.74	79	1240	11.1	20200	3170	DL SF87	S4	109
15.87	88	1240	12.5	19300	3110	DL SA87	S4	92
14.27	98	1240	13.8	18500	3060	DL SAF87	S4	109
12.42	113	1240	15.9	17400	2970			
11.13	126	1240	17.8	16600	2890			
9.29	151	1140	19.3	15900	2880			

* FRa 代表输出轴在中心点的许用径向力
FRe 代表输入轴在中心点的许用径向力

* FRa represent allowed radial force at the center point of the output shaft.
FRe represent allowed radial force at the center point of the input shaft

4.3 DLS..S.. 双轴型减速机技术参数表

4.3 Selection tables of DLS..S..gearmotors (double shaft)

DLS97S.., ne=1450 1/min

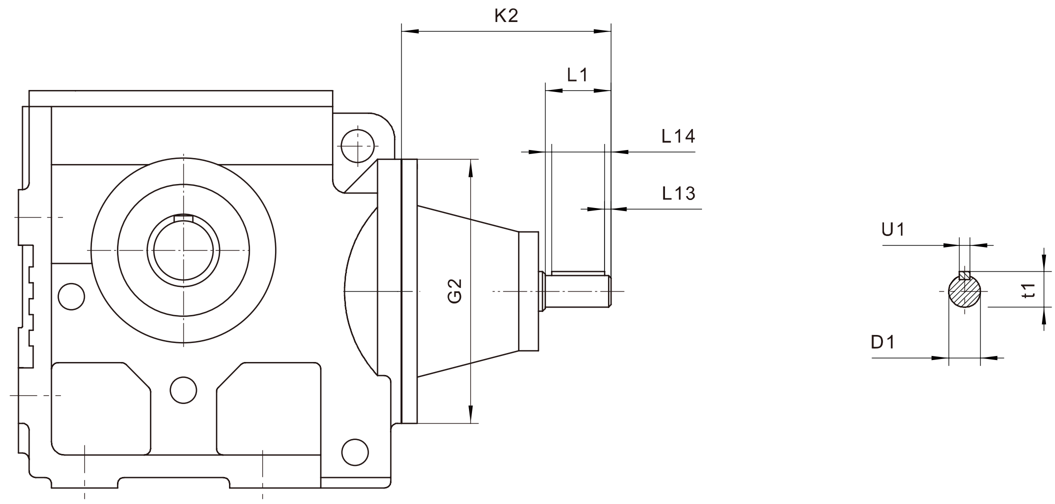
减速比 Ratio i	转速 Speed na [r/min]	转矩 Torque Ma [Nm]	功率 Power Pm [Kw]	径向力 Overhung load FRa* [N]	径向力 Overhung load FRe* [N]	规格 Size		重量 Weight [kg]
266.67 235.00 200.00 184.76 165.22 148.80 134.81 118.46 107.14 92.80 78.26 72.46	5.3 6.0 7.0 7.6 8.5 9.4 10 12 13 15 18 19	4000 4000 4000 3920 3840 3730 3650 3510 3440 3240 3230 3300	3.1 3.4 4.0 4.2 4.5 4.9 5.2 5.7 6.2 6.6 7.9 7.6	33200 33200 33200 33400 33500 33700 33900 34100 34300 34600 34600 34800	2120 2110 2090 2090 2090 2090 2090 2090 2080 2070 1330 2070	DL S97 DL SF97 DL SA97 DL SAF97	S3 S3 S3 S3	161 181 158 181
67.27 61.67 56.97 50.94 45.88 41.57 36.53 33.04	21 23 25 27 31 34 38 42	2900 3300 3300 3300 3300 3300 3300 3200	8.1 8.9 9.6 10.7 11.8 13.1 14.9 15.8	35200 34500 34500 34500 34100 32800 31300 30400	3100 3280 3230 3190 3150 3110 3060 3050	DL S97 DL SF97 DL SA97 DL SAF97	S4 S4 S4 S4	166 186 164 186
28.61	49	3050	17.4	29000	6240	DL S97 DL SF97 DL SA97 DL SAF97	S5 S5 S5 S5	180 200 177 200
24.13	58	2650	17.9	28000	6240	DL S97 DL SF97 DL SA97 DL SAF97	S4 S4 S4 S4	166 186 164 186
21.70 20.74 19.66 17.28 15.63 13.53 11.41 9.81 8.51	65 68 71 81 90 103 123 143 165	2600 2600 2600 2570 2470 2330 2210 2040 1770	18.9 19.8 21 23 25 27 31 32 32	24900 23700 22700 21100 20800 20100 19500 18800 18800	5490 5430 5360 5320 5330 5320 5330 5320 5500	DL S97 DL SF97 DL SA97 DL SAF97	S5 S5 S5 S5	180 200 177 200

* FRa 代表输出轴在中心点的许用径向力
FRe 代表输入轴在中心点的许用径向力

* FRa represent allowed radial force at the center point of the output shaft.
FRe represent allowed radial force at the center point of the input shaft

4.4 DLS..S.. 双轴型减速机外形及安装尺寸图表

4.4 Dimensions of DLS..S..gearmotors



型号 Type	S	K2	G2	D1	L1	L14	L13	U1	T1
DLS..37 DLS..47 DLS..57	S1	102	120	16	40	32	4	5	18
	S2	130		19	40	32	4	6	21.5
DLS..67	S2	123	160	19	40	32	4	6	21.5
	S3	159		24	50	40	5	8	27
DLS..77	S2	116	200	19	40	32	4	6	21.5
	S3	151		24	50	40	5	8	27
	S4	224		38	80	70	5	10	41
DLS..87	S2	111	250	19	40	32	4	6	21.5
	S3	156		28	60	50	5	8	31
	S4	219		38	80	70	5	10	41
DLS..97	S3	151	300	28	60	50	5	8	31
	S4	214		38	80	70	5	10	41
	S5	287		42	110	70	10	12	45

注：其余安装尺寸同相应的机座号。

Note: All other unmarked mounting dimensions are the same as corresponding frame size.

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