

东力减速电机

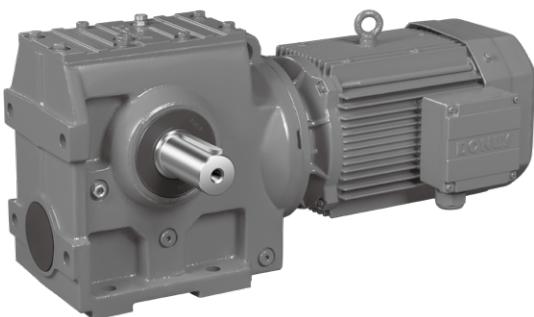
斜齿轮 - 蜗轮蜗杆减速电机

HELICAL-WORM GEARMOTORS

型号 Type DLS

版本 Edition 2021

DLS 减速电机 Gearmotors



| | |
|--|----|
| 1. 产品说明 Product Description | |
| 1.1 产品特点 | 01 |
| Product features | |
| 1.2 使用条件 | 01 |
| Work conditions | |
| 1.3 通用技术条件 | 02 |
| General notes | |
| 1.4 润滑油 | 03 |
| Lubricants | |
| 1.5 带平键空心轴的尺寸及拆装 | 05 |
| Assembly/disassembly of gear units with hollow shafts and keys | |

2. 产品型号表示及订货说明

Product Designations And Order Information

| | |
|--|----|
| 2.1 产品型号描述 | 06 |
| Product designations | |
| 2.2 订货参数说明 | 08 |
| Ordering parameter description | |
| 2.3 制动器 | 09 |
| Brake | |
| 2.4 扭力臂和安装位置 | 09 |
| Torque arm and mounting position | |
| 2.5 输出轴和输出法兰位置 | 09 |
| Position of output shaft and output flange | |
| 2.6 安装方式 | 10 |
| Mounting position | |
| 2.7 电机接线盒和接线口位置 | 11 |
| Position of terminal box and cable entry | |
| 2.8 编码器 | 11 |
| Encoder | |
| 2.9 防腐蚀 | 12 |
| Corrosion protection | |
| 2.10 表面防护 | 12 |
| Anti-corrosion protection | |
| 2.11 标准电机连接法兰 | 13 |
| Motor adapter | |
| 2.12 伺服电连接法兰 | 14 |
| Servo motor adapter | |

ONLY

| | |
|---|----|
| 3. DLS..DE3. 减速电机选型 | |
| Project Planning For DLS..DE3.. Gearmotors | |
| 3.1 选型步骤 | 15 |
| Selection steps | |
| 3.2 效率 | 16 |
| Efficiency | |
| 3.3 载荷系数 F..... | 16 |
| Load factor F | |
| 3.4 起动次数系数 C..... | 17 |
| Starting times factor C | |
| 3.5 环境温度系数 A..... | 17 |
| Ambient temperature A | |
| 3.6 径向力和轴向力校核 | 18 |
| Check overhung and axial forces | |
| 3.7 DLS..S.. 双轴型减速机选型 | 19 |
| Project planning for DLS..S.. gear units | |

DLS

减速电机

Gearmotors

| | |
|---|----|
| 4. 技术参数及外形安装尺寸图表 | |
| Selection Tables And Dimensions | |
| 4.1 DLS..DE3 减速电机技术参数表 | 20 |
| Selection tables of DLS..DE3..garmotors | |
| 4.2 DLS..DE3. 减速电机外形及安装尺寸图表 | 39 |
| Dimensions of DLS..DE3..garmotors | |
| 4.3 DLS..S.. 双轴型减速机技术参数表 | 67 |
| Selection tables of DLS..S..garmotors(double shaft) | |
| 4.4 DLS..S.. 双轴型减速机外形及安装尺寸图表 | 74 |
| Dimensions of DLS..S..garmotors | |

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：

| 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°C ...+40°C |

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.

产品说明**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。

Product Description**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.

产品说明**Product Description****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。

润滑油牌号

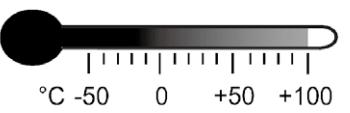
下页显示的润滑表为东力公司推荐的润滑油牌号，请参考下面图例。

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.

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.

|  | | | | | DIN (ISO) | ISO, NLGI | Mobil® Shell | KLÜBER / 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 Gly-goyle 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 Cassida 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。

下表为与安装方式 M1–M6 相关的油量值。

润滑油量表

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...

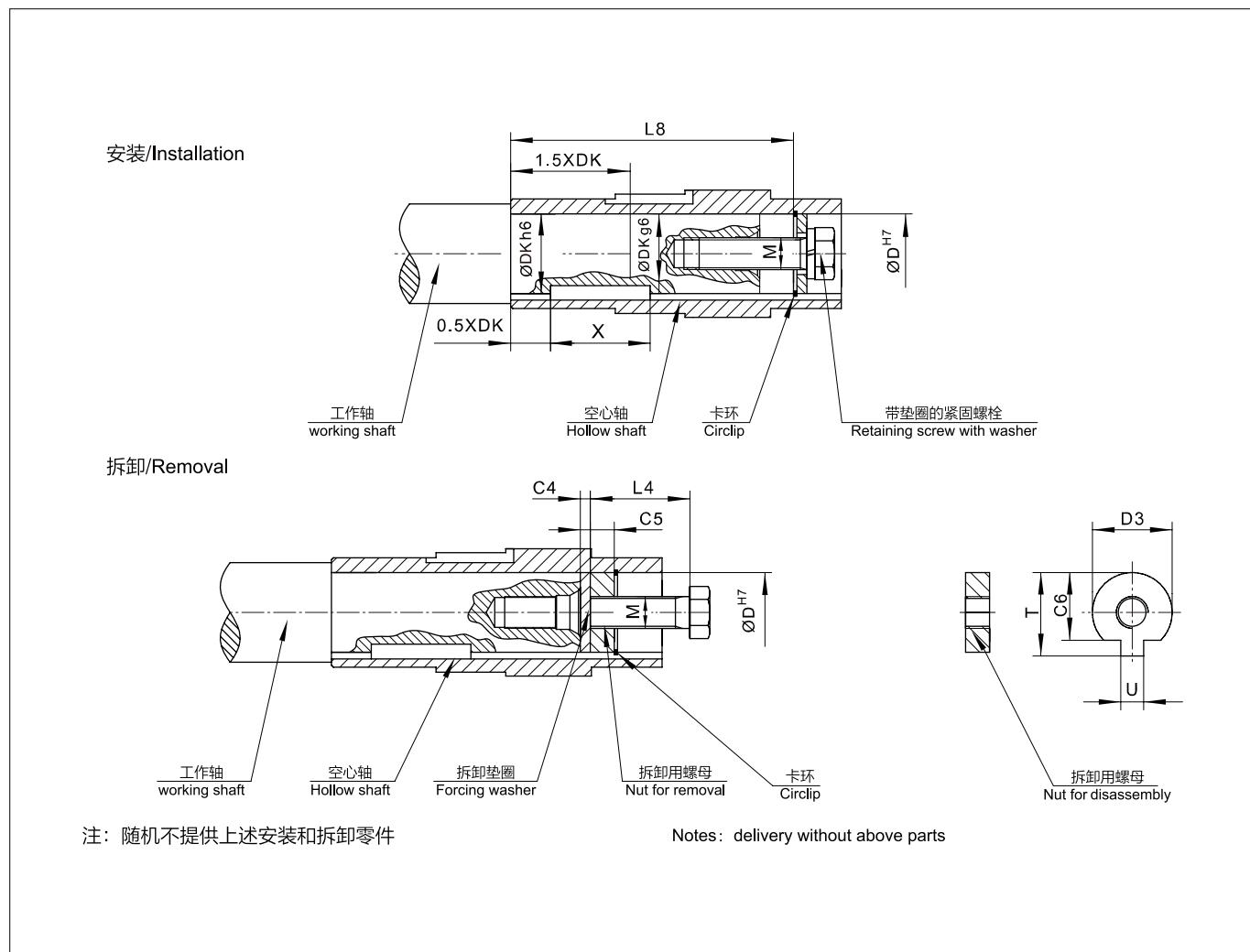
| 减速电机型号 Gear unit type | 润滑油量 (升) /Fill quantity in liters | | | | | |
|--------------------------|-----------------------------------|------|------|------|------|------|
| | M1 | M2 | M3 | M4 | M5 | M6 |
| 37 | 0.3 | 0.4 | 0.5 | 0.6 | 0.4 | 0.4 |
| 47 | 0.4 | 0.8 | 0.8 | 1.2 | 0.9 | 0.9 |
| 57 | 0.4 | 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 |

产品说明

Product Description

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



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 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

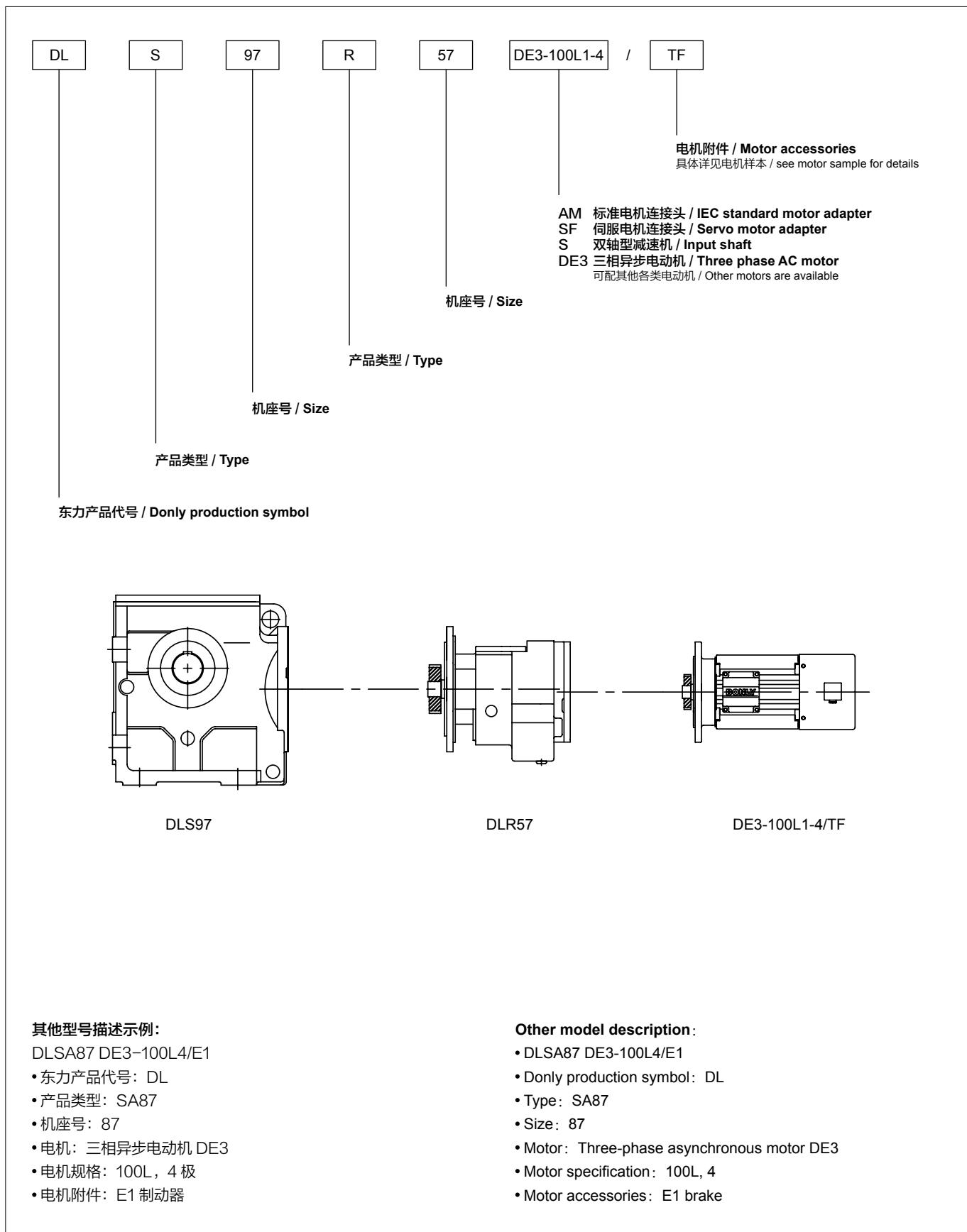
减速电机型号从输出端开始描述。

示例如下：

2.1 Product model description

The model of gear motor is described from the output end.

Examples are as follows:

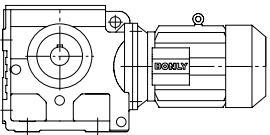
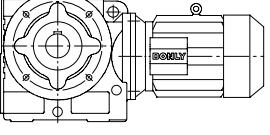
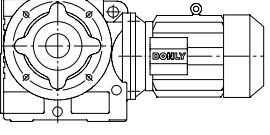
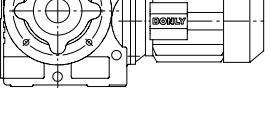
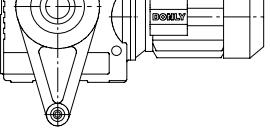
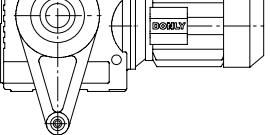
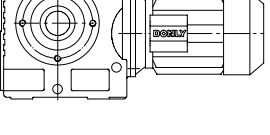
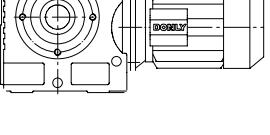


产品型号表示及订货说明

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 | n _a min ⁻¹ | i | T | S | F | | | SP | |
|----------------------|-------------------------------------|----|-------|--------|--------|-----|----|----|-----|
| 4kw | 45 | M1 | 31.90 | T:A45° | S:φ50A | F:B | CP | L3 | SP2 |

带空心轴装拆套件
With Assembly/disassembly kit for hollow shaft
详见 1.5 / See Chapter 1.5

表面防护 / Surface protection
详见 2.10 / See Chapter 2.10

接线盒及接线口位置
Position of terminal box and cable entry
详见 2.7 / See Chapter 2.7

防腐蚀 / Anti-Corrosion protection
详见 2.9 / See Chapter 2.9

输出法兰位置 / Out flange position
详见 2.5 / See Chapter 2.5

输出轴直径及位置 / Shaft diameter and position
详见 2.5 / See Chapter 2.5

带扭力臂及扭力臂位置 / With torque arm and position
详见 2.4 / See Chapter 2.4

减速比 / Ration
详见相关选型表 / See selection table

安装方式 / Mounting position
详见 2.6 / See Chapter 2.6

输出转速 / Output speed
详见相关选型表 / See selection table

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.

产品型号表示及订货说明

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。

2.4 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°

Product Designations And Order Information

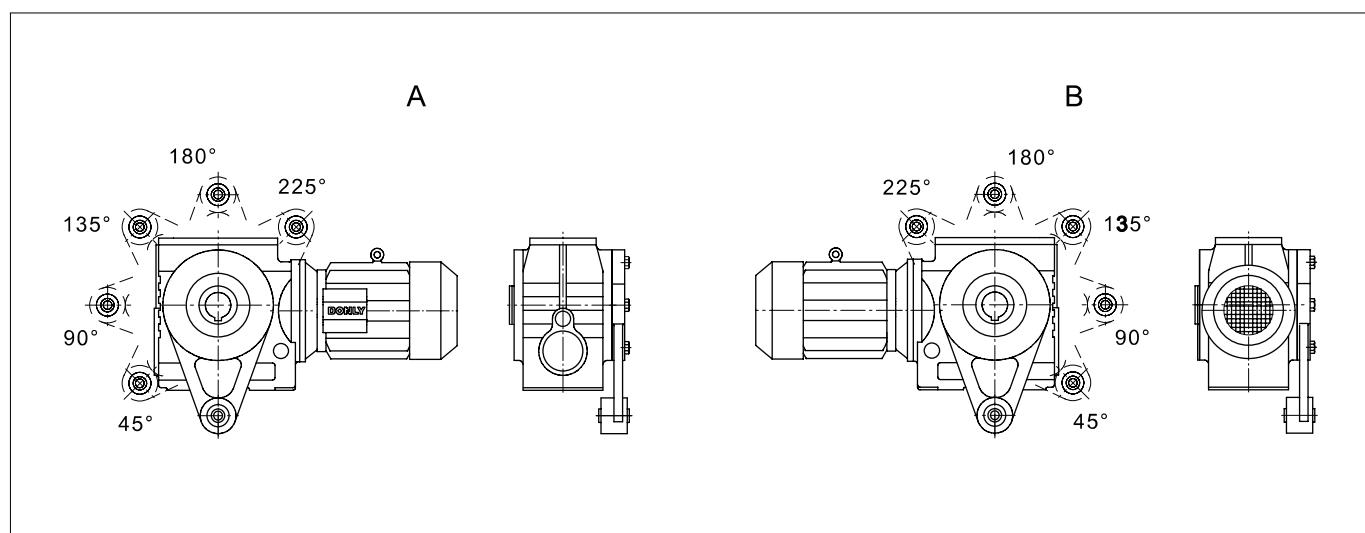
2.3 Brake

On request, gearmotors can be supplied with an integrated mechanical 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 mechanically if equipped with manual brake release.

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：

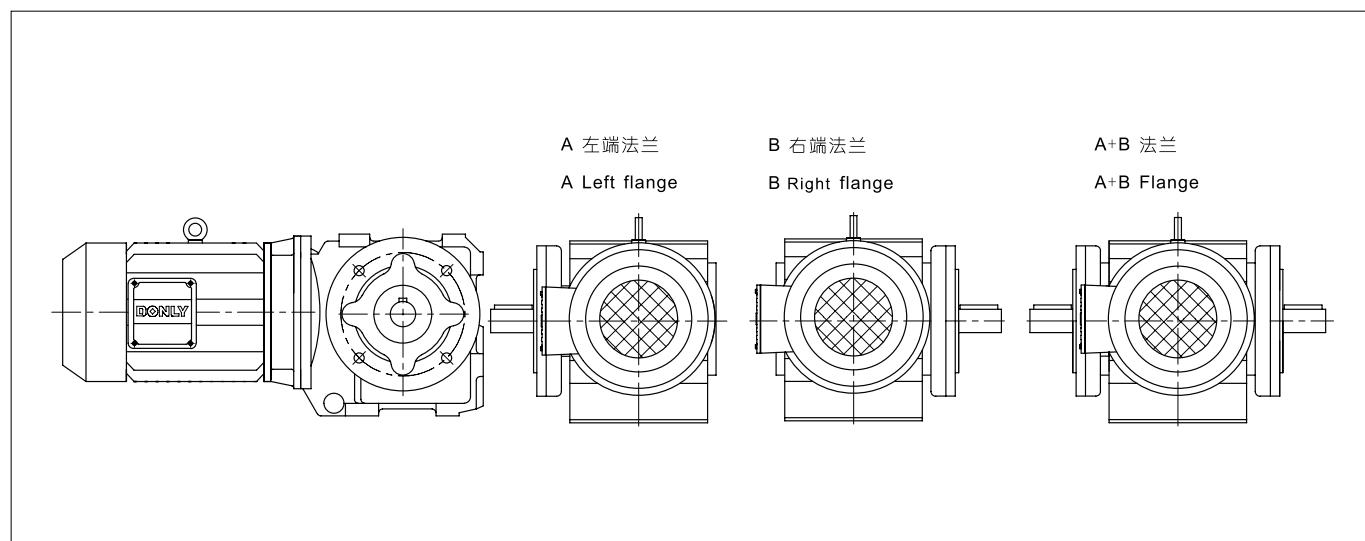
如下图所示（从高速端看）

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:

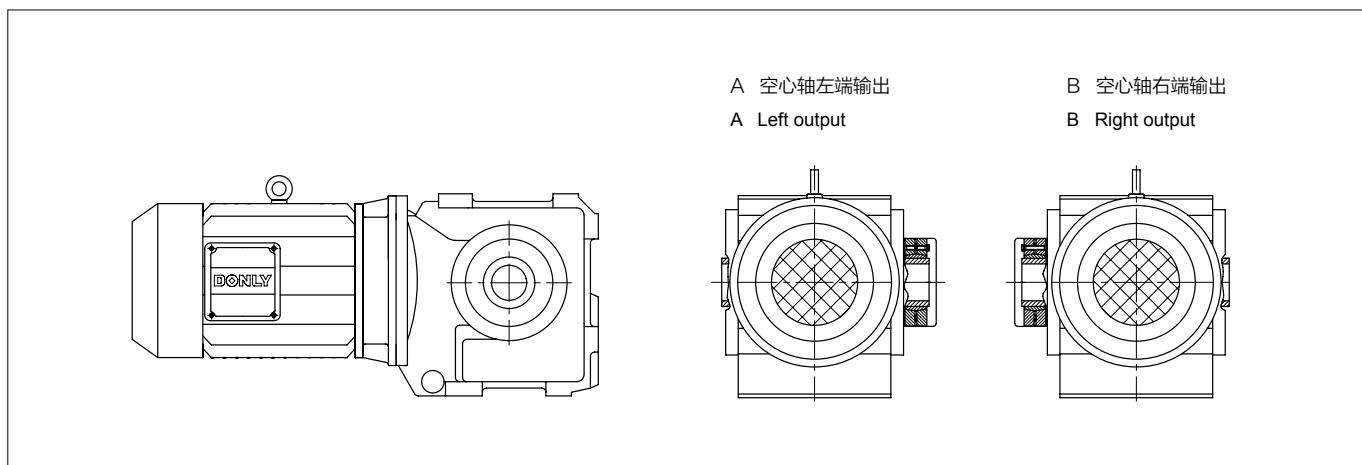
A or B or AB



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。

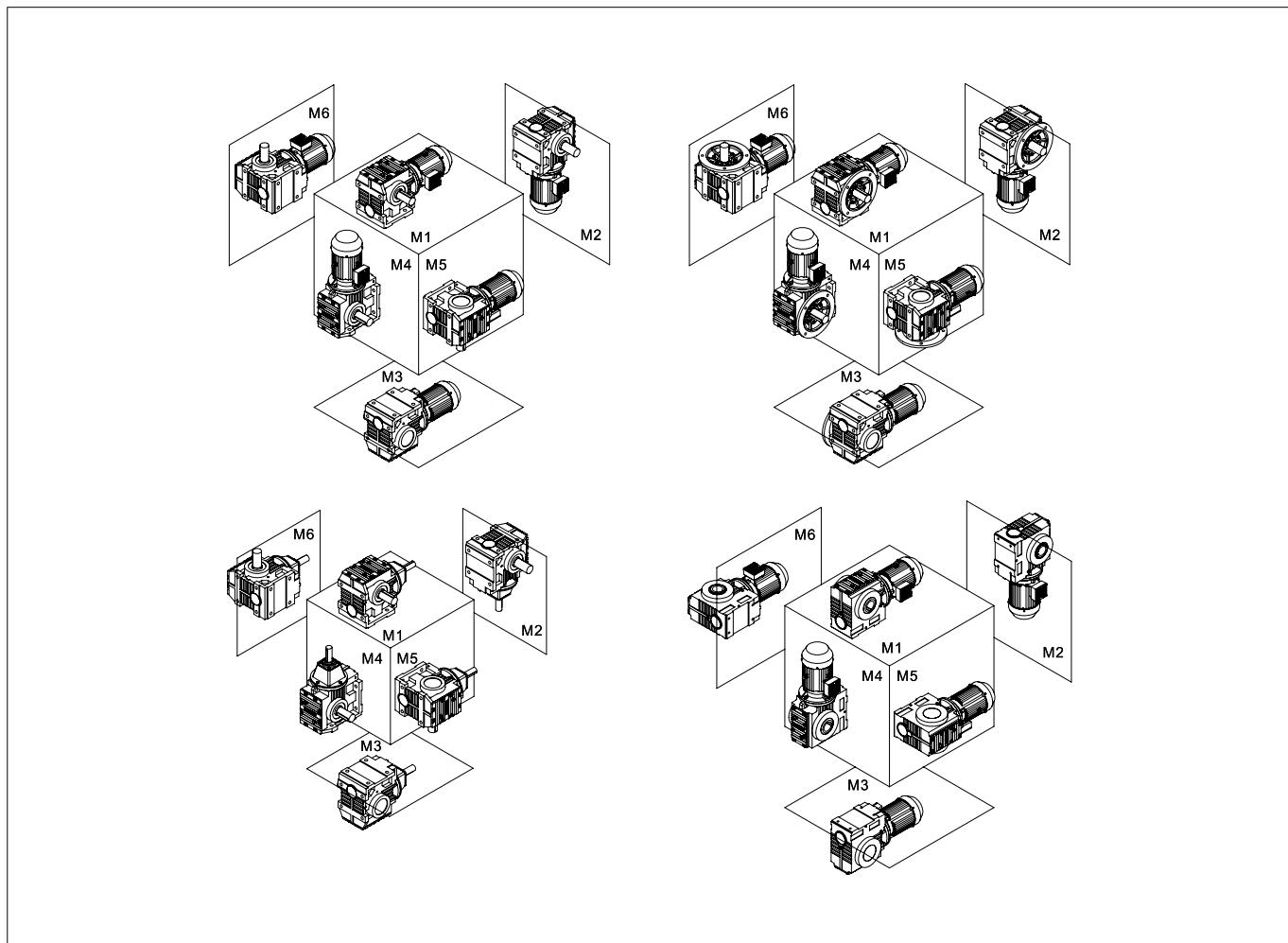
从高速端看：

**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.



产品型号表示及订货说明**Product Designations And Order Information****2.7 电机接线盒和接线口位置**

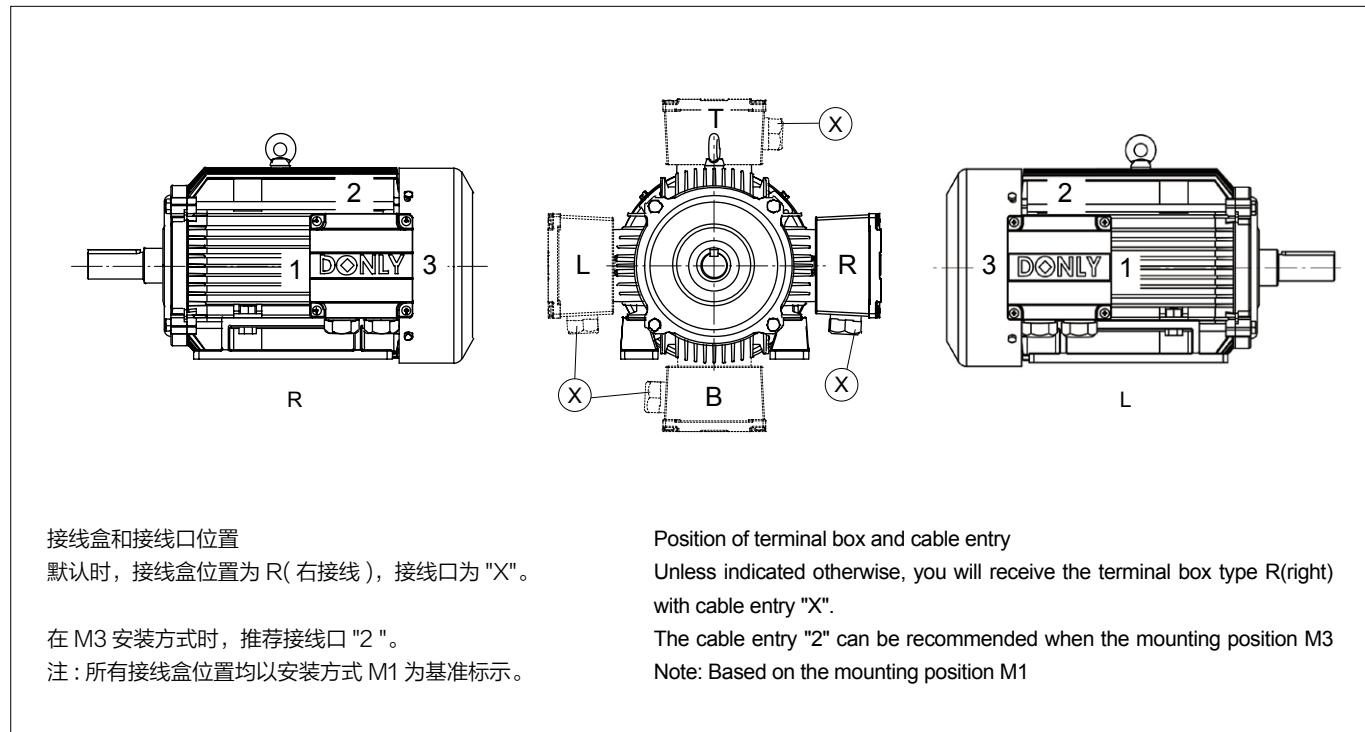
电机的接线盒用 L(左)、R(右)、T(顶)、B(底)四种方式表示，在 M1 安装方式下，见下图。

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.

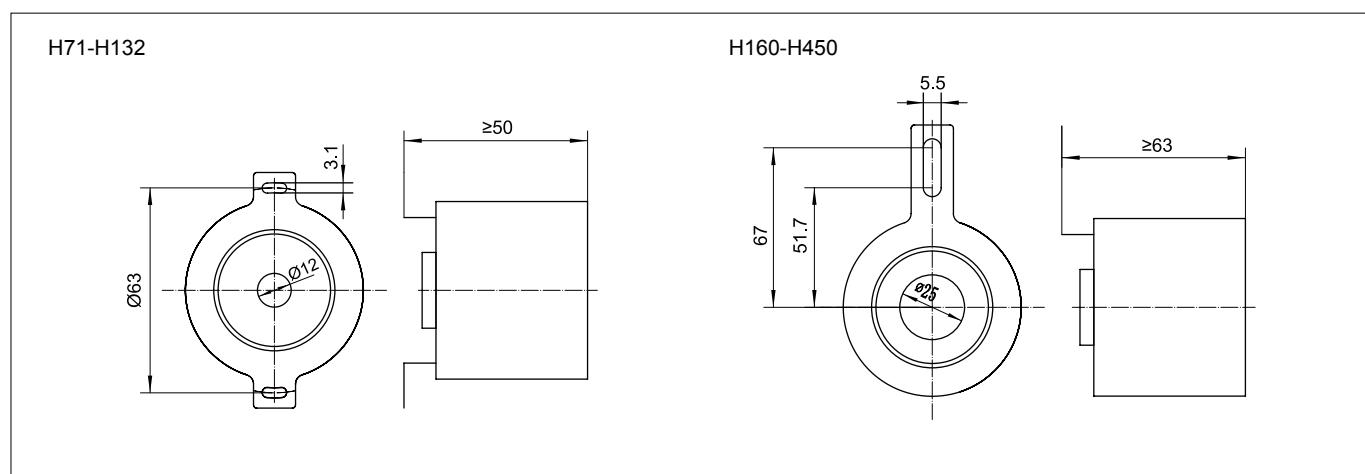
The position of the cable entry can be selected as well. The positions are "X" (= standard position, X can be omitted), "1","2" or "3".

**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.



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 | <ul style="list-style-type: none"> 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°C 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 | <ul style="list-style-type: none"> 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°C 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 | <ul style="list-style-type: none"> 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°C 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 | <ul style="list-style-type: none"> 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°C 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 epoxy base coat 1× 双组份面漆 Two-pack top coat | 约 /Approx. 320 | <ul style="list-style-type: none"> 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°C 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

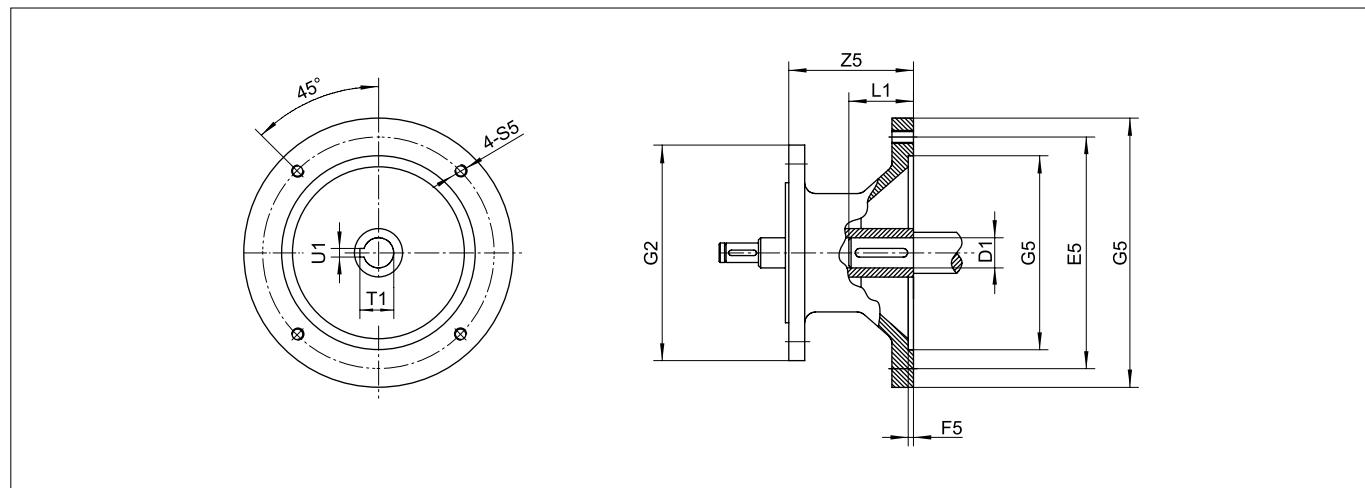
1. NDFT(Nominal dry film thickness)=Required coating thickness;
Minimum thickness = 80% NDFT; Maximum thickness = 3×NDFT(ISO 12944-5)
2. Corrosivity category according to: ISO 12944-2

产品型号表示及订货说明

Product Designations And Order Information

2.11 标准电机连接法兰

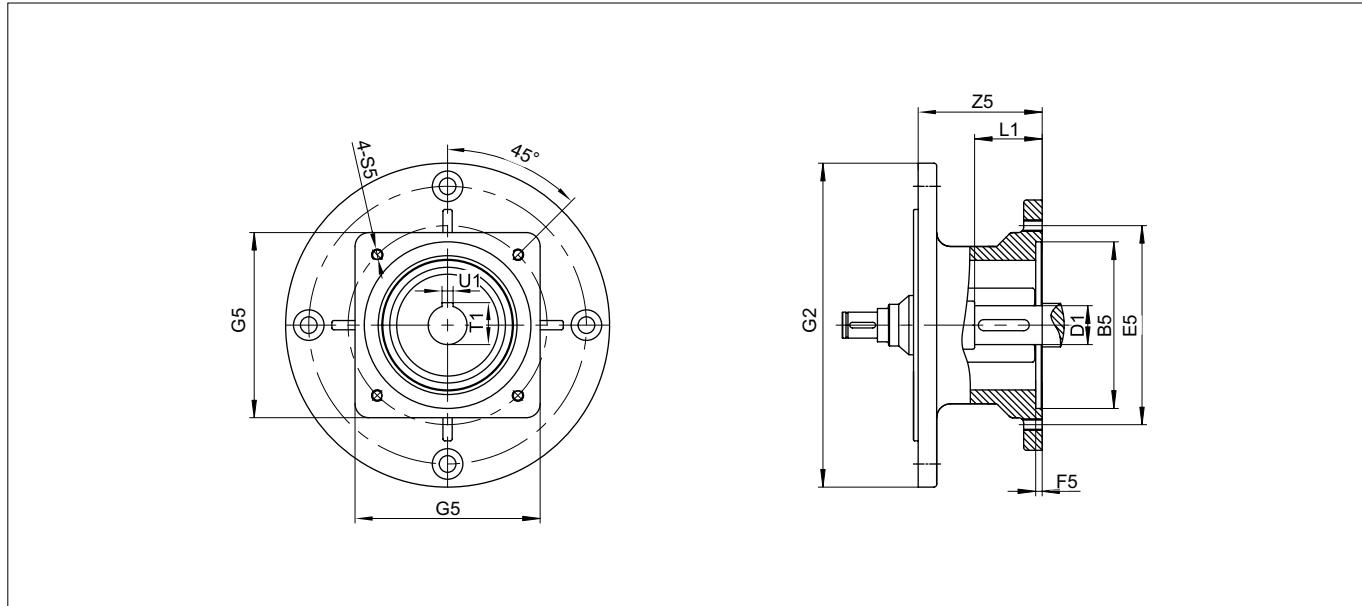
2.11 Motor adapter



| 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 | | | | | 250 | M12 | 108 | 24 | 50 | 27.3 | 8 | | | |
| | AM100 | 180 | 215 | 5 | | 300 | | | 28 | 60 | 31.3 | 8 | | | |
| | AM112 | 230 | 265 | | | | | | 158 | 38 | 80 | 41.3 | | | |
| | AM132S/M | | | | | | | | | | | 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 | | | | | 250 | | | 24 | 50 | 27.3 | 8 | | | |
| | AM100 | 180 | 215 | 5 | | 300 | M12 | 97 | 28 | 60 | 31.3 | 8 | | | |
| | AM112 | | | | | | | | 119 | 38 | 80 | 41.3 | | | |
| | AM132S | 230 | 265 | | | | | | | | | 10 | | | |
| | AM132M | | | | | | | | | | | | | | |
| | AM132L | | | | | | | | | | | | | | |
| DLS..87 | AM80 | 130 | 165 | 4.5 | 250 | 200 | M10 | 54 | 19 | 40 | 21.8 | 6 | | | |
| | AM90 | | | | | 250 | | | 24 | 50 | 27.3 | 8 | | | |
| | AM100 | 180 | 215 | 5 | | 300 | M12 | 94 | 28 | 60 | 31.3 | 8 | | | |
| | AM112 | | | | | | | | 111 | 38 | 80 | 41.3 | | | |
| | AM132S | 230 | 265 | | | 350 | M16 | 149 | 42 | 110 | 45.3 | 12 | | | |
| | AM132M | | | | | | | | 48 | | 51.8 | 14 | | | |
| | AM132L | | | | | | | | | | | | | | |
| | AM160 | 250 | 300 | 6 | | | | | | | | | | | |
| DLS..97 | AM180 | 180 | 215 | 5 | 300 | 250 | M12 | 84 | 28 | 60 | 31.3 | 8 | | | |
| | AM112 | | | | | 300 | | 103 | 38 | 80 | 41.3 | 10 | | | |
| | AM132S | 230 | 265 | | | 350 | M16 | 141 | 42 | 110 | 45.3 | 12 | | | |
| | AM132M | | | | | | | | 48 | | 51.8 | 14 | | | |
| | AM132L | | | | | | | | | | | | | | |
| | AM160 | 250 | 300 | 6 | | 350 | 178 | 55 | 59.3 | 16 | | | | | |
| | AM180 | 300 | 350 | 7 | | 400 | | | | | | | | | |
| | AM200 | | | | | | | | | | | | | | |

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 | 7 | | 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 | 7 | | 180 | M12 | 160 | 35 | 79 | 38.3 | 10 | |
| | SF180-42 | 114.3 | 200 | | | 180 | M12 | 160 | 42 | 113 | 45.3 | 12 | |
| | SF190 | 180 | 215 | 7 | | 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.. 系列减速电机按下列步骤进行选型，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 | <ul style="list-style-type: none"> 额定输出转速 / Rating work speed: n_e[rpm] 负载功率 / Power of load: P_e[kW] 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] 作用在轴上的径向力 / Overhung force at shaft: FR 径向力的作用点位置距肩距离 / 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 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 $X = 60$ $FAI = 5500$ N $35^\circ C$ |
| 2 | 确定效率 η Determine efficiency | 按输入转速 1500rpm 和额定输出转速 n_e 按下式计算速比 According to following formula calculating ratio $i = 1500/n_e$ 按 3.2 章根据速比选定效率 / Determine efficiency from chapter3.2 η | $i = 1500/n_e = 1500/19 = 78.9$ $\eta = 0.88$ |
| 3 | 计算功率 P_m Calculated power | 按下式计算电机功率 / Calculate power of motor according to following: $P_m = P_e/\eta$ | $P_m = Pe/\eta$ $= 2.3/0.88$ $= 2.61$ kW |
| 4 | 确定服务系数 f_l 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 to chapter3.5 按计算服务系数 f_l / Calculate service factor f_l : $f_l = F \times C \times A$ | 按表 3.3-2: $h = 16$ h/d 轻载 $\Rightarrow F = 1.18$ 按表 3.4: $Z = 30 \Rightarrow C = 1.18$ 按表 3.5: $35^\circ C \Rightarrow A = 1.3$ $f_l = F \times C \times A$ $= 1.18 \times 1.18 \times 1.3$ $= 1.81$ |
| 5 | 初选减速电机 型号规格 Selecting size | 根据 / According to $P \geq P_m$ 和 $f_l \leq f_B$ 及 n_e 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 | $P_m = 2.61$, $n_e = 19$, $f_l = 1.81$ 查选型表 / From selection table: DLS97 DE3-100L2-4 $P = 3$ kW, $n_e = 17$ rpm, $f_B = 2.2$ 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 $FR_a = 36600$ N $FR_p = FR_a = 36600$ N $F_Ap = FR_a 0.5 = 36600 \times 0.5 = 18300$ N 查表 3.6 $a = 325.6$, $b = 255.6$ $FX = FR_p \frac{a}{b+x} = 36600 \times \frac{325.6}{255.6+60} = 37760$ N 校核 Check: 径向力 Overhung force: $FR = 6000 < FR_x = 37760$ 符合 Pass 轴向力 Axial force: $FAI = 5500 < F_Ap = 18300$ 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 \Rightarrow DLS97 DE3-100L2-4/E $n_a = 17$ rpm CP 级防锈蚀 |

3.2 效率

| 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

表 3.3-1

| 应用 Application field | | F | | | 应用 Application field | F | | | |
|--|---|---|--|--|--|--|-----------------------|--------------------------------|-----------------------------------|
| | | 每天工作小时 Operating time per day | | | | 每天工作小时 Operating time per day | | | |
| | | 8h/d | 16h/d | 24h/d | | 8h/d | 16h/d | 24h/d | |
| 建筑业 搅拌机 水泥厂 灰浆喷射机 | Construction Industry Blender Cement plant Mortar spraying machine | 1.25 1.5 1 | 1.5 1.75 1 | 1.75 2 1.25 | 泵 离心式 旋转型、齿轮型 叶轮型、叶片型 多缸活塞泵 螺旋泵 | Pump Centrifugal Rotary type, Gear type Impeller type, Vane type Multi cylinder piston pump Screw pump | 1 1 1 1 1 | 1.25 1 1 1.25 1.25 | 1.5 1.25 1.25 1.5 1.5 |
| 酿造和蒸馏 麦芽菜池 装瓶机 | Hreverage and distillation Mash tubs Bottling machine | 1 1 | 1 1 | 1.25 1.25 | | | | | |
| 电梯 提升机 货运电梯 自动扶梯 | Elevator Bucket elevator Freight elevator Escalators | 1 1 1 | 1.25 1.25 1 | 1.5 1.5 1.25 | 搅拌机 纯液体（均匀密度） 液体（非均匀密度） 液体和固体 | Agitators for media with Pure liquid (uniform density) Liquid (non-uniform density) Liquid and solid | 1 1 1.25 | 1 1.25 1.5 | 1.25 1.5 1.75 |
| 过滤机 | Filter | 1 | 1.25 | 1.5 | | | | | |
| 发电机 | Generator | 1 | 1 | 1.25 | | | | | |
| 木材和塑料工业 电锯的主动力 电锯的进给动力 砍木机 胶合板胶机 钻孔机 挤压机 | Lumber and plastic Industry Main drive for saws Feed drive for saws Chopping machine Veneer gluing machine Drilling machine Extruder | 1.5 1 1.5 1 1 1.25 | 1.75 1.25 1.75 1 1 1.5 | 2 1.5 2 1.25 1.25 1.75 | 输送机 平稳加载 重载链和螺旋输送 振动输送机 | Conveyor Stable load Heavy duty chain and screw conveyor Vibratory conveyor | 1 1 1.5 | 1 1.25 1.75 | 1.25 1.5 1.75 |
| 机床设备 平面刨床、龙门刨床 弯轧机 主动力、进给动力 进给和辅动力 压力机 折弯机 剪板机 | Machine tool equipment Surface planer, Gantry planer Bending roll Main driver, feed driver Feed and auxiliary drive Presses Folding machine Plate shear | 1.25 1.25 1 1 1.75 1.5 1.75 | 1.5 1.5 1.25 1 2 1.75 2 | 1.75 1.75 1.5 1.25 2 2 2 | 风扇 离心式风扇 工业风扇 冷却塔动力 | Fans Centrifugal Industrial fans Cooling Tower drive | 1 1 1.75 | 1 1.25 1.75 | 1.25 1.5 1.75 |
| 包装机械 纸板堆叠机械 打包机 | Packing machine Cardbard stacking machine Wrapping machine | 1.25 1 | 1.5 1 | 1.75 1.25 | | | | | |
| 压缩机 离心式 轴流式 | Compressor Centrifugal Axial flow | 1 1 | 1.25 1.25 | 1.5 1.5 | | | | | |
| 混合机 均匀密度 不均匀密度 | Mixer for Uniform media Non-uniform media | 1 1 | 1.5 1.25 | 1.25 1.5 | 筛子 旋转式（石头，砂） 行进式吸水机 | Screen Rotary(stone, gravel) Travelling water scooping machine | 1 1 | 1.25 1 | 1.5 1.25 |
| 钢铁工业 拉线机 绕线机 集中驱动辊道 (无反转) 单独驱动辊道 (无反转) 集中驱动辊道 (有反转) 单独驱动辊道 (有反转) | Iron and steel industry Wire drawing machine Winding machine Group driver roller table (one-way rotation) Individual driver roller table (one-way rotation) Group driver roller table (two-way rotation) Individual driver roller table (two-way rotation) | 1.25 1 1.25 1.5 1.75 2 | 1.5 1.25 1.5 1.75 2.25 2.5 2.5 | 1.75 1.5 1.75 5 2.5 2.75 | 辅助动力伺服系统 微动装置 | Auxiliary drive, servo system Microinching equipment | 1 1 | 1 1 | 1 1 |
| 磨机 球磨机、棒磨机 锤磨机、粉磨机 | Mill Ball mill, rod mill Hammer mill, powder mill | 1.75 1.5 | 1.75 1.75 | 1.75 2 | 家用机械 施肥平土机 收割机 | Agricultural machinery Manure scraper Reaping machine | 1 1 | 1 1 | |
| | | | | | 纺织工业 织机 纺纱机 洗涤机 | Textile industry Loom Spinning machine Washer | 1.25 1 1.25 | 1.5 1 1.25 | 1.75 1.25 1.5 |
| | | | | | 印刷和制纸技术 切割机 卷筒 打包进料机 | Printing and papermaking technology Cutter Reel Bale feeder | 1 1 1 | 1.25 1 1.25 | 1.5 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 acceleration factor | $a = \frac{\text{所有外部质量的转动惯量} / \text{All external mass moments of inertia } J_x}{\text{所有质量在电机轴} / \text{Mass moment of inertia on the motor end } J_m}$ |
|---------------------------------|---|

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_x =Mass moment of inertia scaled down to the motor shaft J = 输出转速对应的转动惯量 J = Mass moment of inertia with reference to the output speed of the gear unit n = 齿轮箱输出转速 n =Output speed of the gear unit n_M = 电机转速 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

许用径向力 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%。

3.6 Check overhung and axial forces

Permitted overhung load FR_p

The permitted overhung loads FR_a 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 FR_a specified in the selection tables for torque transmission via flange mounting are permitted.

$$\text{地脚安装 /Foot-mounted: } FR_p = FR_a$$

$$\text{法兰安装 /Flange-mounted: } FR_p = FR_a \times 0.5$$

许用轴向力 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%。

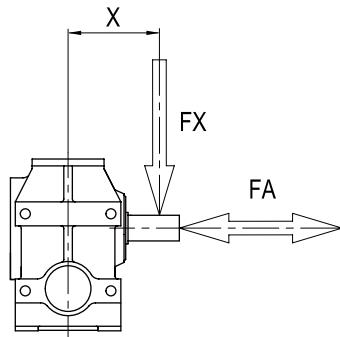
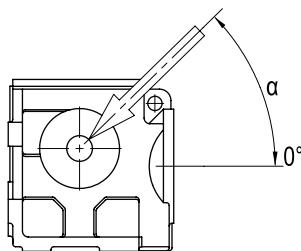
Permitted axial load FA_p

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

$$FA_p = FR_a \times 0.5$$

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

$$FR \leq FX$$

轴向力校核

Check axial force

$$FA \leq FA_p$$

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 | <ul style="list-style-type: none"> 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 $fl=FxC$ = 1.75×1.06 = 1.855 |
|---|---------------------------------------|---|--|

↓

| | | | |
|---|---------------------------------------|---|--|
| 4 | 计算所需转 Mr Calculating torque needed | 按下式计算所需转矩 / Calculating torque needed $Mr= Me \times fl$ | $Mr = Me \times fl$ = 650×1.855 = 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 × 0.5=28700 × 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: $FA=5500$ FAp= 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 Selection tables of DLS..DE3..gelmotors

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

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selection tables of DLS..DE3..gelmotors

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

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selection tables of DLS..DE3..gelmotors

| 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 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 DLSF47R17 DLSA47R17 DLSAF47R17 | DE3-63M2-4 DE3-63M2-4 DE3-63M2-4 DE3-63M2-4 | 17 20 18 19 |
| | 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 DLSF67 DLSA67 DLSAF67 | DE3-71M1-6 DE3-71M1-6 DE3-71M1-6 DE3-71M1-6 | 37 40 37 40 |
| | 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 DLSF57 DLSA57 DLSAF57 | DE3-71M1-6 DE3-71M1-6 DE3-71M1-6 DE3-71M1-6 | 25 27 24 27 |
| | 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 DLSF57 DLSA57 DLSAF57 | DE3-63M2-4 DE3-63M2-4 DE3-63M2-4 DE3-63M2-4 | 17 21 17 20 |
| | 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 DLSF47 DLSA47 DLSAF47 | DE3-71M1-6 DE3-71M1-6 DE3-71M1-6 DE3-71M1-6 | 21 24 22 24 |
| | 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 DLSF47 DLSA47 DLSAF47 | DE3-63M2-4 DE3-63M2-4 DE3-63M2-4 DE3-63M2-4 | 14 17 15 16 |
| | 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 DLSF37 DLSA37 DLSAF37 | DE3-63M2-4 DE3-63M2-4 DE3-63M2-4 DE3-63M2-4 | 11 12 10 12 |
| | 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 DLSF37 DLSA37 DLSAF37 | DE3-63M2-4 DE3-63M2-4 DE3-63M2-4 DE3-63M2-4 | 11 12 10 12 |
| | 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 DLSF37 DLSA37 DLSAF37 | DE3-63M2-4 DE3-63M2-4 DE3-63M2-4 DE3-63M2-4 | 11 12 10 12 |

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selection tables of DLS..DE3..gelmotors

| 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 0.56 0.63 0.72 0.81 1.4 | 2470 2270 1920 1690 1540 900 | 2691 2433 2138 1875 1677 964 | 27500 28000 28500 28900 29100 29800 | 0.92 1.00 1.19 1.35 1.48 2.5 | DLS87R57 DLSF87R57 DLSA87R57 DLSAF87R57 DLS77R37 DLSF77R37 DLSA77R37 DLSAF77R37 DLS67R37 DLSF67R37 DLSA67R37 DLSAF67R37 DLS57R17 DLSF57R17 DLSA57R17 DLSAF57R17 DLS67 DLSF67 DLSA67 DLSAF67 DLS67 DLSF67 DLSA67 DLSAF67 DLS57 DLSF57 DLSA57 DLSAF57 DLS57 DLSF57 DLSA57 DLSAF57 DLS47 DLSF47 DLSA47 DLSAF47 | 118 127 127 109 127 70 76 70 76 46 50 46 50 27 28 25 28 43 46 42 46 38 42 38 42 36 40 36 40 26 28 25 28 24 26 23 26 20 23 21 23 | 39 39 39 39 39 39 39 39 39 39 39 39 39 39 39 39 39 39 51 54 52 54 51 54 52 54 51 54 52 54 51 54 52 54 47 50 48 50 47 50 48 50 43 46 44 46 |

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selection tables of DLS..DE3..gelmotors

| 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 | DLS37 DLSF37 DLSA37 DLSAF37 | DE3-71M1-4 DE3-71M1-4 DE3-71M1-4 DE3-71M1-4 | 17 18 17 18 |
| | 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 | | | |
| | 42 | 44 | 31.91 | 3000 | 1.73 | | | |
| | 45 | 42 | 29.94 | 3000 | 1.79 | | | |
| | 51 | 37 | 26.46 | 3000 | 2.0 | | | |
| | 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 | | | |
| 0.37 | 91 | 21 | 29.94 | 2740 | 3.6 | DLS37 DLSF37 DLSA37 DLSAF37 | DE3-63M2-2 DE3-63M2-2 DE3-63M2-2 DE3-63M2-2 | 11 12 10 12 |
| | 103 | 19 | 26.46 | 2650 | 3.9 | | | |
| | 116 | 17 | 23.50 | 2560 | 4.3 | | | |
| | 133 | 16 | 20.57 | 2410 | 3.3 | | | |
| | 139 | 16 | 19.69 | 2370 | 3.3 | | | |
| | 145 | 15 | 18.88 | 2350 | 3.5 | | | |
| | 170 | 13 | 16.09 | 2250 | 3.8 | | | |
| | 197 | 11 | 13.90 | 2160 | 4.5 | | | |
| | 211 | 10 | 12.96 | 2120 | 4.8 | | | |
| | 0.72 | 2660 | 1875 | 27500 | 0.86 | DLS87R57 | DE3-71M2-4 | 118 |
| 0.80 | 0.80 | 2380 | 1677 | 28000 | 0.96 | DLSF87R57 | DE3-71M2-4 | 127 |
| | 1.4 | 1420 | 964 | 29400 | 1.61 | DLSA87R57 | DE3-71M2-4 | 109 |
| | 1.6 | 1290 | 862 | 29500 | 1.77 | DLSAF87R57 | DE3-71M2-4 | 127 |
| | 1.6 | 1510 | 832 | 11500 | 0.82 | DLS77R37 DLSF77R37 DLSA77R37 DLSAF77R37 | DE3-71M2-4 DE3-71M2-4 DE3-71M2-4 DE3-71M2-4 | 71 70 72 77 |
| | 1.9 | 1320 | 696 | 12700 | 0.94 | | | |
| | 2.1 | 1170 | 628 | 13600 | 1.06 | | | |
| | 2.4 | 1050 | 565 | 14400 | 1.18 | | | |
| | 2.9 | 850 | 470 | 15000 | 1.46 | | | |
| | 3.6 | 695 | 374 | 15400 | 1.78 | | | |
| 3.4 | 3.4 | 685 | 397 | 7700 | 0.76 | DLS67R37 | DE3-71M2-4 | 47 |
| | 4.3 | 530 | 311 | 8540 | 0.98 | DLSF67R37 | DE3-71M2-4 | 51 |
| | 4.9 | 470 | 276 | 9080 | 1.11 | DLSA67R37 | DE3-71M2-4 | 47 |
| | 5.4 | 435 | 250 | 9430 | 1.20 | DLSAF67R37 | DE3-71M2-4 | 51 |
| | 2.3 | 990 | 294.00 | 29800 | 2.3 | DLS87 DLSF87 DLSA87 DLSAF87 | DE3-90S-8 DE3-90S-8 DE3-90S-8 DE3-90S-8 | 110 119 101 119 |
| 4.0 | 2.6 | 915 | 263.64 | 29900 | 2.5 | | | |
| | 3.4 | 655 | 198.18 | 15600 | 1.94 | DLS77 | DE3-90S-8 | 72 |
| | 4.0 | 570 | 169.60 | 15900 | 2.2 | DLSF77 | DE3-90S-8 | 78 |
| | 4.5 | 570 | 222.00 | 15900 | 2.2 | DLSA77 | DE3-90S-8 | 71 |
| 4.4 | 4.5 | 510 | 198.18 | 16000 | 2.5 | DLSAF77 | DE3-90S-8 | 78 |
| | 4.4 | 485 | 201.16 | 9400 | 1.07 | DLS67 | DE3-80M1-6 | 65 |
| | 4.7 | 455 | 189.00 | 9400 | 1.14 | DLSF67 | DE3-80M1-6 | 71 |
| | 5.3 | 405 | 168.00 | 9700 | 1.28 | DLSA67 | DE3-80M1-6 | 65 |
| | 6.7 | 335 | 201.16 | 10100 | 1.55 | DLSAF67 | DE3-80M1-6 | 71 |
| 7.1 | 7.1 | 310 | 189.00 | 10200 | 1.68 | DLS67 | DE3-71M2-4 | 41 |
| | 8.0 | 280 | 168.00 | 10300 | 1.86 | DLSF67 | DE3-71M2-4 | 45 |
| | 9.4 | 235 | 142.80 | 10400 | 2.2 | DLSA67 | DE3-71M2-4 | 41 |
| | 10 | 215 | 129.11 | 10500 | 2.4 | DLSAF67 | DE3-71M2-4 | 45 |
| | 8.0 | 280 | 168.00 | 10300 | 1.86 | DLS67 | DE3-71M2-4 | 51 |
| 9.4 | 9.4 | 235 | 142.80 | 10400 | 2.2 | DLSF67 | DE3-71M2-4 | 54 |
| | 10 | 215 | 129.11 | 10500 | 2.4 | DLSA67 | DE3-71M2-4 | 52 |
| | 10 | 215 | 129.11 | 10500 | 2.4 | DLSAF67 | DE3-71M2-4 | 54 |

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selection tables of DLS..DE3..gelmotors

| 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 6.3 6.7 7.6 9.1 10 | 380 325 305 275 235 220 | 163.06 141.47 132.30 116.46 97.44 87.11 | 6500 6900 7100 7390 7630 7760 | 0.78 0.91 0.97 1.07 1.26 1.34 | DLS57 DLSF57 DLA57 DLAF57 | DE3-80M1-6 DE3-80M1-6 DE3-80M1-6 DE3-80M1-6 | 28 30 27 30 |
| | 6.5 7.1 8.3 9.5 10 12 14 15 18 19 20 23 24 28 | 310 285 245 230 220 186 169 149 146 146 112 104 115 100 | 207.00 190.40 163.06 141.47 132.30 116.46 97.44 87.11 75.25 70.56 65.73 58.44 56.29 48.84 | 7000 7230 7500 7690 7770 7900 8000 8000 8060 8070 8100 8120 8110 8110 | 0.95 1.04 1.20 1.28 1.34 1.59 1.75 1.98 2.0 2.0 2.5 2.4 2.1 2.5 | DLS57 DLSF57 DLA57 DLAF57 | DE3-71M2-4 DE3-71M2-4 DE3-71M2-4 DE3-71M2-4 | 25 27 24 27 |
| | 12 14 15 18 19 23 28 29 33 40 45 52 55 67 74 79 | 180 164 142 126 143 120 101 95 83 70 65 56 52 47 42 39 | 116.46 97.44 87.11 75.25 70.56 58.44 48.84 45.68 40.21 33.64 30.07 25.98 24.36 20.17 18.19 17.01 | 5320 5430 5500 5580 5460 5510 5410 5330 5140 4930 4790 4590 4510 4180 4030 3960 | 0.93 1.02 1.18 1.33 1.08 1.38 1.53 1.63 1.87 2.2 2.4 2.8 2.9 2.3 2.6 2.8 | DLS47 DLSF47 DLA47 DLAF47 | DE3-71M2-4 DE3-71M2-4 DE3-71M2-4 DE3-71M2-4 | 21 24 22 24 |
| | 25 30 34 37 42 45 51 57 68 | 105 92 82 75 67 63 56 50 44 | 53.10 45.26 39.08 36.45 31.91 29.94 26.46 23.50 19.69 | 3000 3000 3000 3000 3000 3000 2940 2870 2610 | 0.76 0.87 0.98 1.04 1.13 1.19 1.32 1.46 1.18 | DLS37 DLSF37 DLA37 DLAF37 | DE3-71M2-4 DE3-71M2-4 DE3-71M2-4 DE3-71M2-4 | 17 18 18 18 |
| | 104 119 126 143 161 192 | 30 27 25 22 19 17 | 12.96 11.35 10.64 9.41 8.36 7.00 | 2390 2320 2280 2220 2150 2070 | 1.60 1.78 1.88 2.1 2.4 2.5 | DLS37 DLSF37 DLA37 DLAF37 | DE3-71M2-4 DE3-71M2-4 DE3-71M2-4 DE3-71M2-4 | 17 18 18 18 |
| | 104 117 133 139 145 170 197 211 242 258 291 | 28 25 23 23 22 19 16 15 13 12 11 | 26.46 23.50 20.57 19.69 18.88 16.09 13.90 12.96 11.35 10.64 9.41 | 2540 2460 2350 2290 2250 2160 2080 2040 1970 1940 1870 | 2.6 2.9 2.3 2.3 2.4 2.6 3.1 3.2 3.7 3.9 4.2 | DLS37 DLSF37 DLA37 DLAF37 | DE3-71M1-2 DE3-71M1-2 DE3-71M1-2 DE3-71M1-2 | 11 13 11 13 |

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selection tables of DLS..DE3..gelmotors

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

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selection tables of DLS..DE3..gelmotors

| 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 |
| | 46 | 93 | 30.07 | 7730 | 2.6 | DLSF57 | DE3-80M1-4 | 30 |
| | 54 | 81 | 25.98 | 7390 | 3.0 | DLSA57 | DE3-80M1-4 | 27 |
| | 57 | 77 | 24.36 | 7250 | 3.2 | DLSAF57 | DE3-80M1-4 | 30 |
| | 69 | 67 | 20.17 | 6760 | 2.5 | | | 50 |
| | 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 |
| | 46 | 92 | 30.07 | 4540 | 1.68 | DLSF47 | DE3-80M1-4 | 28 |
| | 54 | 80 | 25.98 | 4380 | 1.94 | DLSA47 | DE3-80M1-4 | 26 |
| | 57 | 76 | 24.36 | 4310 | 2.0 | DLSAF47 | DE3-80M1-4 | 28 |
| | 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 | DLS37 | DE3-80M1-4 | 21 |
| | 71 | 60 | 19.69 | 2540 | 0.87 | DLSF37 | DE3-80M1-4 | 22 |
| | 108 | 43 | 12.96 | 2180 | 1.26 | DLSA37 | DE3-80M1-4 | 21 |
| | 123 | 38 | 11.35 | 2130 | 1.33 | DLSAF37 | DE3-80M1-4 | 22 |
| | 131 | 36 | 10.64 | 2110 | 1.47 | | | |
| | 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 |
| | 216 | 22 | 12.96 | 1920 | 2.5 | DLSF37 | DE3-71M2-2 | 19 |
| | 247 | 19 | 11.35 | 1870 | 2.8 | DLSA37 | DE3-71M2-2 | 18 |
| | 263 | 18 | 10.64 | 1840 | 2.9 | DLSAF37 | DE3-71M2-2 | 19 |
| | 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 |
| | 1.6 | 3370 | 853 | 34600 | 1.19 | DLSF97R57 | DE3-80M2-4 | 206 |
| | 1.8 | 2370 | 756 | 35900 | 1.69 | DLSA97R57 | DE3-80M2-4 | 183 |
| | 2.1 | 2500 | 649 | 35700 | 1.60 | DLSAF97R57 | DE3-80M2-4 | 206 |
| | 2.4 | 2260 | 572 | 36100 | 1.77 | | | 39 |
| | 2.7 | 2040 | 515 | 36300 | 1.96 | | | 39 |
| | 1.4 | 2870 | 964 | 25900 | 0.79 | | | |
| | 1.6 | 2660 | 862 | 27500 | 0.86 | DLS87R57 | DE3-80M2-4 | 123 |
| | 1.8 | 2280 | 765 | 28100 | 1.00 | DLSF87R57 | DE3-80M2-4 | 132 |
| | 2.1 | 2010 | 665 | 28600 | 1.13 | DLSA87R57 | DE3-80M2-4 | 114 |
| | 2.3 | 1830 | 595 | 28900 | 1.25 | DLSAF87R57 | DE3-80M2-4 | 132 |
| | 3.0 | 1480 | 466 | 29300 | 1.54 | | | 39 |
| | 4.0 | 1150 | 349 | 29600 | 1.98 | | | 39 |
| | 4.2 | 1240 | 332 | 12000 | 1.00 | DLS77R37 | DE3-80M2-4 | 76 |
| | 4.8 | 1110 | 292 | 13100 | 1.12 | DLSF77R37 | DE3-80M2-4 | 82 |
| | 5.3 | 995 | 263 | 14000 | 1.25 | DLSA77R37 | DE3-80M2-4 | 75 |
| | 6.4 | 840 | 219 | 14700 | 1.48 | DLSAF77R37 | DE3-80M2-4 | 82 |

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selection tables of DLS..DE3..gelmotors

| 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 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 |
| | 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 |
| | 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 |
| | 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 |
| | 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 |
| | 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 |
| | 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 |
| | 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 |
| | 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 |
| | 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 29 |

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selection tables of DLS..DE3..gelmotors

| 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 | DLS37 | DE3-80M2-4 | 22 | 40 |
| | 123 | 52 | 11.35 | 1920 | 1.04 | DLSF37 | DE3-80M2-4 | 23 | 42 |
| | 131 | 49 | 10.64 | 1910 | 1.09 | DLSA37 | DE3-80M2-4 | 22 | 41 |
| | 148 | 43 | 9.41 | 1890 | 1.21 | DLSAF37 | DE3-80M2-4 | 23 | 42 |
| | 167 | 38 | 8.36 | 1860 | 1.36 | | | | |
| | 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 | DLS87R57 | DE3-90S-4 | 129 | 39 |
| | 2.7 | 2410 | 520 | 28000 | 1.04 | DLSF87R57 | DE3-90S-4 | 137 | 39 |
| | 3.0 | 2160 | 466 | 28400 | 1.13 | DLSA87R57 | DE3-90S-4 | 120 | 39 |
| | 3.5 | 1920 | 407 | 28800 | 1.28 | DLSAF87R57 | DE3-90S-4 | 137 | 39 |
| | 4.0 | 1670 | 349 | 29100 | 1.44 | | | | |
| | 4.6 | 1480 | 305 | 29300 | 1.62 | | | | |
| | 5.9 | 1360 | 237 | 29400 | 1.46 | | | | |
| | 6.6 | 1250 | 214 | 29500 | 1.58 | | | | |
| 3.2 | 2.4 | 3080 | 291.20 | 25200 | 1.30 | DLS97 | DE3-100L2-8 | 184 | 63 |
| | 2.6 | 2820 | 266.67 | 25200 | 1.42 | DLSF97 | DE3-100L2-8 | 204 | 66 |
| | 2.9 | 2480 | 235.00 | 25600 | 1.61 | DLSA97 | DE3-100L2-8 | 181 | 64 |
| | 3.2 | 2360 | 291.20 | 36000 | 1.69 | DLSAF97 | DE3-100L2-8 | 204 | 66 |
| | 3.4 | 2160 | 266.67 | 36000 | 1.85 | | | | |
| | 3.9 | 1930 | 235.00 | 36300 | 2.1 | DLS97 | DE3-90L-6 | 178 | 63 |
| | 3.2 | 2320 | 294.00 | 28400 | 0.98 | DLSF97 | DE3-90L-6 | 198 | 66 |
| | 3.5 | 2080 | 263.64 | 29000 | 1.09 | DLSA97 | DE3-90L-6 | 175 | 64 |
| | 3.9 | | | | | DLSAF97 | DE3-90L-6 | 198 | 66 |
| | 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 | 6.3 | 1150 | 222.00 | 13000 | 1.10 | | | | |
| | 7.1 | 1020 | 198.18 | 13900 | 1.25 | DLS77 | DE3-90S-4 | 72 | 55 |
| | 8.3 | 885 | 169.60 | 14700 | 1.42 | DLSF77 | DE3-90S-4 | 78 | 58 |
| | 9.1 | 815 | 154.07 | 15000 | 1.52 | DLSA77 | DE3-90S-4 | 72 | 56 |
| | 10 | 735 | 135.00 | 15400 | 1.65 | DLSAF77 | DE3-90S-4 | 78 | 58 |
| | 11 | 665 | 128.00 | 15500 | 1.80 | | | | |
| | 13 | 595 | 111.30 | 15800 | 1.97 | | | | |
| | 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 Selection tables of DLS..DE3..gelmotors

| 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 Page Page |
|---------------------------|------------------------------|----------------------------|-------------------|------------------------------------|---------------------------------|------------|----------------------|---------------------|
| 1.1 | 29 | 290 | 49.30 | 9560 | 1.66 | DLS67 | DE3-90S-4 | 47 51 |
| | 32 | 265 | 44.57 | 9240 | 1.81 | DLSF67 | DE3-90S-4 | 51 54 |
| | 36 | 235 | 38.67 | 9040 | 2.0 | DLSA67 | DE3-90S-4 | 47 52 |
| | 38 | 225 | 36.54 | 8780 | 2.1 | DLSAF67 | DE3-90S-4 | 51 54 |
| | 44 | 200 | 32.15 | 8660 | 2.4 | | | |
| | 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 | | | |
| | 168 | 56 | 8.36 | 1570 | 0.80 | DLS37 | DE3-90S-4 | 27 40 |
| | 201 | 47 | 7.00 | 1580 | 0.91 | DLSF37 | DE3-90S-4 | 28 42 |
| | | | | | | 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 | | | |
| | 2.6 | 3840 | 266.67 | 33700 | 1.04 | DLS97 | DE3-112M-8 | 188 63 |
| | 3.0 | 3390 | 235.00 | 34400 | 1.18 | DLSF97 | DE3-112M-8 | 208 66 |
| | | | | | | DLSA97 | DE3-112M-8 | 186 64 |
| | | | | | | DLSAF97 | DE3-112M-8 | 208 66 |
| | 3.5 | 2870 | 266.67 | 35100 | 1.39 | DLS97 | DE3-100L-6 | 184 63 |
| | 4.0 | 2600 | 235.00 | 35500 | 1.54 | DLSF97 | DE3-100L-6 | 204 66 |
| | | | | | | 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 |

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selection tables of DLS..DE3..gelmotors

| 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 |
| | 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 |
| | 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 |
| | 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 |
| | 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 |
| | 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 |
| | 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 |
| | 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 |

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selection tables of DLS..DE3..gelmotors

| 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 Page Page |
|---------------------------|------------------------------|----------------------------|-------------------|------------------------------------|---------------------------------|------------|----------------------|---------------------|
| 1.5 | 125 | 104 | 11.20 | 2620 | 1.05 | DLS47 | DE3-90L-4 | 34 |
| | 145 | 90 | 9.68 | 2590 | 1.21 | DLSF47 | DE3-90L-4 | 37 |
| | 155 | 83 | 9.07 | 2580 | 1.31 | DLSA47 | DE3-90L-4 | 35 |
| | 187 | 69 | 7.51 | 2530 | 1.49 | DLSAF47 | DE3-90L-4 | 37 |
| | 300 | 44 | 9.41 | 1330 | 1.05 | DLS37 | DE3-90S-2 | 27 |
| | 338 | 39 | 8.36 | 1350 | 1.15 | DLSF37 | DE3-90S-2 | 28 |
| | 403 | 32 | 7.00 | 1340 | 1.34 | DLSA37 | DE3-90S-2 | 28 |
| | | | | | | DLSAF37 | DE3-90S-2 | 28 |
| | | | | | | | | |
| | | | | | | | | |
| 2.2 | 3.6 | 4560 | 392 | 28300 | 0.88 | DLS97R57 | DE3-100L1-4 | 202 |
| | 4.8 | 3470 | 298 | 34300 | 1.15 | DLSF97R57 | DE3-100L1-4 | 222 |
| | 5.3 | 3150 | 271 | 35000 | 1.27 | DLSA97R57 | DE3-100L1-4 | 199 |
| | | | | | | DLSAF97R57 | DE3-100L1-4 | 222 |
| | 3.6 | 4260 | 266.67 | 32800 | 0.94 | DLS97 | DE3-112M-6 | 193 |
| | 4.0 | 3750 | 235.00 | 33700 | 1.07 | DLSF97 | DE3-112M-6 | 212 |
| | | | | | | DLSA97 | DE3-112M-6 | 190 |
| | | | | | | DLSAF97 | DE3-112M-6 | 212 |
| | 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 |
| | 8.6 | 1850 | 165.22 | 36300 | 2.1 | DLSF97 | DE3-100L1-4 | 205 |
| | 9.6 | 1690 | 148.80 | 36500 | 2.2 | DLSA97 | DE3-100L1-4 | 182 |
| | 11 | 1590 | 134.82 | 36600 | 2.3 | DLSAF97 | DE3-100L1-4 | 205 |
| | 12 | 1360 | 118.46 | 36700 | 2.6 | | | 66 |
| | 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 |
| | 11 | 1350 | 125.22 | 29300 | 1.53 | DLSF87 | DE3-100L1-4 | 128 |
| | 13 | 1270 | 112.00 | 29500 | 1.57 | DLSA87 | DE3-100L1-4 | 111 |
| | 14 | 1110 | 100.74 | 29600 | 1.77 | DLSAF87 | DE3-100L1-4 | 128 |
| | 16 | 1110 | 87.69 | 29600 | 1.69 | | | 62 |
| | 18 | 990 | 78.57 | 29800 | 1.84 | | | 60 |
| | 20 | 930 | 71.95 | 29700 | 1.72 | | | 62 |
| | 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 |
| | 25 | 640 | 56.53 | 13100 | 1.55 | DLSF77 | DE3-100L1-4 | 88 |
| | 28 | 650 | 51.36 | 12100 | 1.69 | DLSA77 | DE3-100L1-4 | 82 |
| | 32 | 580 | 45.00 | 11900 | 1.90 | DLSAF77 | DE3-100L1-4 | 88 |
| | 33 | 550 | 42.67 | 11700 | 2.0 | | | 58 |
| | 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 | DLS67 | DE3-100L1-4 | 57 |
| | 39 | 445 | 36.54 | 7360 | 1.08 | DLSF67 | DE3-100L1-4 | 61 |
| | 44 | 400 | 32.15 | 7320 | 1.20 | DLSA67 | DE3-100L1-4 | 57 |
| | 49 | 360 | 29.00 | 7180 | 1.33 | DLSAF67 | DE3-100L1-4 | 61 |
| | 57 | 310 | 25.22 | 7080 | 1.55 | | | 54 |
| | 65 | 290 | 22.04 | 6060 | 1.17 | | | |

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selection tables of DLS..DE3..gelmotors

| 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 | DLS67 DE3-100L1-4 DLSF67 DE3-100L1-4 DLA67 DE3-100L1-4 DLAF67 DE3-100L1-4 | 57 61 57 61 | 51 54 52 54 |
| | 86 | 215 | 16.60 | 5880 | 1.58 | | | |
| | 99 | 193 | 14.40 | 5770 | 1.76 | | | |
| | 105 | 182 | 13.61 | 5710 | 1.87 | | | |
| | 119 | 158 | 11.97 | 5700 | 2.2 | | | |
| | 132 | 140 | 10.80 | 5550 | 2.4 | | | |
| | 152 | 120 | 9.39 | 5450 | 2.8 | | | |
| | 174 | 110 | 8.21 | 5300 | 2.7 | | | |
| | 95 | 198 | 14.97 | 4650 | 0.85 | DLS57 DE3-100L1-4 DLSF57 DE3-100L1-4 DLA57 DE3-100L1-4 DLAF57 DE3-100L1-4 | 45 47 44 47 | 47 50 48 50 |
| | 114 | 166 | 12.53 | 4580 | 1.02 | | | |
| | 127 | 148 | 11.20 | 4520 | 1.14 | | | |
| | 147 | 128 | 9.68 | 4420 | 1.32 | | | |
| | 157 | 120 | 9.07 | 4380 | 1.38 | | | |
| | 190 | 101 | 7.51 | 4250 | 1.45 | | | |
| 3.0 | 4.8 | 4830 | 298 | 23700 | 0.83 | DLS97R57 DE3-100L2-4 DLSF97R57 DE3-100L2-4 DLA97R57 DE3-100L2-4 DLAF97R57 DE3-100L2-4 | 204 224 202 224 | 39 39 39 39 |
| | 5.3 | 4390 | 271 | 32400 | 0.91 | | | |
| | 6.0 | 3840 | 237 | 33900 | 1.04 | | | |
| | 6.5 | 3580 | 221 | 34300 | 1.12 | | | |
| | 4.9 | 4210 | 291.20 | 32500 | 0.95 | DLS97 DE3-100L2-4 DLSF97 DE3-100L2-4 DLA97 DE3-100L2-4 DLAF97 DE3-100L2-4 DLS87 DE3-100L2-4 DLSF87 DE3-100L2-4 DLA87 DE3-100L2-4 DLAF87 DE3-100L2-4 DLS77 DE3-100L2-4 DLSF77 DE3-100L2-4 DLA77 DE3-100L2-4 DLAF77 DE3-100L2-4 DLS77 DE3-100L2-4 DLSF77 DE3-100L2-4 DLA77 DE3-100L2-4 DLAF77 DE3-100L2-4 | 188 208 185 208 122 131 113 131 85 91 84 91 85 91 84 91 | 63 66 64 66 59 62 60 62 55 58 56 58 55 58 56 58 |
| | 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 | | | |
| | 8.7 | 2550 | 165.22 | 35600 | 1.51 | | | |
| | 9.6 | 2290 | 148.80 | 35900 | 1.63 | | | |
| | 11 | 2160 | 134.82 | 36100 | 1.69 | | | |
| | 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 | | | |
| | 18 | 1210 | 78.57 | 29500 | 1.50 | | | |
| | 20 | 1270 | 71.95 | 29400 | 1.26 | | | |
| | 22 | 1170 | 65.68 | 29500 | 1.37 | | | |
| | 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 | DLS77 DE3-100L2-4 DLSF77 DE3-100L2-4 DLA77 DE3-100L2-4 DLAF77 DE3-100L2-4 | 85 91 84 91 85 91 84 91 55 | 55 58 56 58 55 58 56 58 |
| | 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 | | | |
| | 60 | 430 | 24.03 | 8820 | 1.64 | | | |
| | 60 | 435 | 23.70 | 8680 | 1.62 | | | |
| | 66 | 400 | 21.83 | 8600 | 1.76 | | | |
| | 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 Selection tables of DLS..DE3..gelmotors

| 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 Page Page |
|---------------------------|------------------------------|----------------------------|-------------------|------------------------------------|---------------------------------|------------|----------------------|---------------------|
| 3.0 | 45 | 530 | 32.15 | 6350 | 0.91 | DLS67 | DE3-100L2-4 | 60 |
| | 49 | 485 | 29.00 | 6350 | 0.99 | DLSF67 | DE3-100L2-4 | 63 |
| | 57 | 420 | 25.22 | 6330 | 1.14 | DLSA67 | DE3-100L2-4 | 59 |
| | 65 | 375 | 22.04 | 5260 | 0.91 | DLSA67 | DE3-100L2-4 | 63 |
| | 78 | 330 | 18.36 | 5250 | 1.03 | DLSF67 | DE3-100L2-4 | 59 |
| | 86 | 300 | 16.60 | 5240 | 1.13 | DLSA67 | DE3-100L2-4 | 52 |
| | 99 | 260 | 14.40 | 5210 | 1.31 | DLSA67 | DE3-100L2-4 | 54 |
| | 105 | 245 | 13.61 | 5190 | 1.39 | DLSAF67 | DE3-100L2-4 | 63 |
| | 120 | 215 | 11.97 | 5100 | 1.58 | DLSAF67 | DE3-100L2-4 | 59 |
| | 133 | 199 | 10.80 | 5050 | 1.71 | DLSAF67 | DE3-100L2-4 | 63 |
| 4.0 | 152 | 173 | 9.39 | 4940 | 1.94 | | | 54 |
| | 174 | 151 | 8.21 | 4830 | 1.95 | | | |
| | 128 | 200 | 11.20 | 3990 | 0.85 | DLS57 | DE3-100L2-4 | 48 |
| | 148 | 176 | 9.68 | 3970 | 0.96 | DLSF57 | DE3-100L2-4 | 49 |
| | 158 | 163 | 9.07 | 3960 | 1.02 | DLSA57 | DE3-100L2-4 | 46 |
| | 191 | 137 | 7.51 | 3900 | 1.07 | DLSAF57 | DE3-100L2-4 | 49 |
| | 6.5 | 4740 | 221 | 27300 | 0.84 | DLS97R57 | DE3-112M-4 | 213 |
| | 6.1 | 4600 | 235.00 | 28300 | 0.87 | DLSF97R57 | DE3-112M-4 | 233 |
| | 7.2 | 3970 | 200.00 | 33200 | 1.01 | DLSA97R57 | DE3-112M-4 | 210 |
| | 7.8 | 3770 | 184.76 | 33800 | 1.04 | DLSAF97R57 | DE3-112M-4 | 233 |
| 4.0 | 8.7 | 3370 | 165.22 | 34400 | 1.14 | DLS97 | DE3-112M-4 | 197 |
| | 9.7 | 3030 | 148.80 | 34900 | 1.23 | DLSF97 | DE3-112M-4 | 216 |
| | 11 | 2820 | 134.82 | 35300 | 1.29 | DLSA97 | DE3-112M-4 | 194 |
| | 12 | 2410 | 118.46 | 35700 | 1.46 | DLSAF97 | DE3-112M-4 | 216 |
| | 13 | 2160 | 107.14 | 35900 | 1.59 | | | 63 |
| | 16 | 1970 | 92.80 | 36300 | 1.64 | | | 66 |
| | 18 | 1920 | 82.22 | 36200 | 1.69 | | | 64 |
| | 20 | 1750 | 72.46 | 36400 | 1.89 | | | 66 |
| | 23 | 1490 | 61.67 | 36500 | 2.2 | | | |
| | 25 | 1340 | 56.97 | 36600 | 2.5 | | | |
| 4.0 | 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 | DLS87 | DE3-112M-4 | 132 |
| | 22 | 1530 | 65.68 | 29100 | 1.05 | DLSF87 | DE3-112M-4 | 141 |
| | 25 | 1340 | 57.63 | 29300 | 1.19 | DLSA87 | DE3-112M-4 | 123 |
| | 30 | 1150 | 48.46 | 29500 | 1.39 | DLSAF87 | DE3-112M-4 | 141 |
| | 32 | 1050 | 44.64 | 29600 | 1.52 | | | 60 |
| | 36 | 930 | 39.65 | 29700 | 1.72 | | | 62 |
| | 41 | 845 | 35.47 | 29800 | 1.89 | | | |
| 4.0 | 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 |
| | 32 | 1040 | 45.00 | 9320 | 1.06 | DLSF77 | DE3-112M-4 | 99 |
| | 32 | 990 | 42.67 | 9370 | 1.11 | DLSA77 | DE3-112M-4 | 93 |
| | 39 | 860 | 37.10 | 9370 | 1.28 | DLSAF77 | DE3-112M-4 | 99 |
| | 42 | 805 | 34.29 | 9340 | 1.37 | | | 58 |
| | 48 | 700 | 30.15 | 9290 | 1.56 | | | 58 |
| | 54 | 620 | 26.67 | 9190 | 1.69 | | | 56 |
| | 61 | 575 | 23.70 | 7650 | 1.23 | | | 56 |
| | 66 | 530 | 21.83 | 7650 | 1.33 | | | 58 |
| | 75 | 470 | 19.13 | 7640 | 1.98 | | | |
| | 80 | 440 | 18.13 | 7620 | 2.1 | | | |

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selection tables of DLS..DE3..gelmotors

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

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selection tables of DLS..DE3..gelmotors

| 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 Page Page |
|---------------------------|------------------------------|----------------------------|-------------------|------------------------------------|---------------------------------|------------|----------------------|---------------------|
| 7.5 | 14 | 4280 | 107.14 | 32900 | 0.80 | DLS97 | DE3-132M-4 | 229 63 |
| | 16 | 3660 | 92.80 | 34100 | 0.89 | DLSF97 | DE3-132M-4 | 249 66 |
| | 19 | 3050 | 78.26 | 34800 | 1.01 | DLSA97 | DE3-132M-4 | 226 64 |
| | 22 | 2690 | 67.27 | 35500 | 1.08 | DLSAF97 | DE3-132M-4 | 249 66 |
| | 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 | | | |
| | 35 | 1840 | 41.57 | 36300 | 1.79 | | | |
| | 40 | 1660 | 36.53 | 36200 | 1.99 | | | |
| | 44 | 1500 | 33.04 | 35500 | 2.1 | | | |
| | 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 | DLS77 | DE3-132M-4 | 126 55 |
| | 113 | 580 | 12.81 | 4570 | 1.24 | DLSF77 | DE3-132M-4 | 132 58 |
| | 128 | 515 | 11.33 | 5110 | 1.40 | DLSA77 | DE3-132M-4 | 125 56 |
| | 144 | 460 | 10.07 | 5540 | 1.58 | DLSAF77 | DE3-132M-4 | 132 58 |
| | 171 | 390 | 8.50 | 5560 | 1.74 | | | |
| 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 Selection tables of DLS..DE3..gelmotors

| 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 Page 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 | DLS87 | DE3-132L-4 | 173 | 59 |
| | 81 | 1010 | 17.74 | 21300 | 1.23 | DLSF87 | DE3-132L-4 | 182 | 62 |
| | 91 | 900 | 15.87 | 21000 | 1.38 | DLSA87 | DE3-132L-4 | 164 | 60 |
| | 101 | 805 | 14.27 | 20700 | 1.54 | DLSAF87 | DE3-132L-4 | 182 | 62 |
| | 116 | 710 | 12.42 | 20200 | 1.75 | DLS87 | DE3-132L-4 | 173 | 59 |
| | 129 | 635 | 11.13 | 19800 | 1.95 | DLSF87 | DE3-132L-4 | 182 | 62 |
| | 155 | 530 | 9.29 | 19100 | 2.2 | DLSA87 | DE3-132L-4 | 164 | 60 |
| | 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 | DLS87 | DE3-160M-4 | 255 | 63 |
| | 32 | 2960 | 45.88 | 34800 | 1.11 | DLSF87 | DE3-160M-4 | 275 | 66 |
| | 35 | 2690 | 41.57 | 34400 | 1.23 | DLSA87 | DE3-160M-4 | 253 | 64 |
| | 40 | 2390 | 36.53 | 33800 | 1.38 | DLSAF87 | DE3-160M-4 | 275 | 66 |
| | 44 | 2160 | 33.04 | 33300 | 1.48 | DLS87 | DE3-160M-4 | 191 | 59 |
| | 51 | 1870 | 28.61 | 31700 | 1.63 | DLSF87 | DE3-160M-4 | 200 | 62 |
| | 61 | 1650 | 24.13 | 29200 | 1.61 | DLSA87 | DE3-160M-4 | 182 | 60 |
| | 61 | 1610 | 24.09 | 29200 | 1.61 | DLSAF87 | DE3-160M-4 | 200 | 62 |
| | 67 | 1460 | 21.70 | 29000 | 1.78 | DLS87 | DE3-160M-4 | 191 | 59 |
| | 71 | 1400 | 20.74 | 28700 | 1.86 | DLSF87 | DE3-160M-4 | 200 | 62 |
| | 74 | 1340 | 19.66 | 28600 | 1.94 | DLSA87 | DE3-160M-4 | 182 | 60 |
| | 85 | 1170 | 17.28 | 28000 | 2.2 | DLSAF87 | DE3-160M-4 | 200 | 62 |
| | 94 | 1050 | 15.63 | 27600 | 2.4 | DLS87 | DE3-160M-4 | 227 | 63 |
| | 108 | 920 | 13.53 | 26900 | 2.5 | DLSF87 | DE3-160M-4 | 247 | 66 |
| | 128 | 770 | 11.41 | 26000 | 2.9 | DLSA87 | DE3-160M-4 | 227 | 63 |
| | 149 | 665 | 9.81 | 25700 | 3.1 | DLSAF87 | DE3-160M-4 | 247 | 66 |
| 15 | 53 | 1810 | 27.77 | 23700 | 0.88 | DLS87 | DE3-160M-4 | 191 | 59 |
| | 70 | 1360 | 20.77 | 22800 | 0.91 | DLSF87 | DE3-160M-4 | 200 | 62 |
| | 82 | 1180 | 17.74 | 20200 | 1.05 | DLSA87 | DE3-160M-4 | 182 | 60 |
| | 92 | 1070 | 15.87 | 20000 | 1.16 | DLSAF87 | DE3-160M-4 | 200 | 62 |
| | 103 | 950 | 14.27 | 19800 | 1.31 | DLS87 | DE3-160M-4 | 191 | 59 |
| | 118 | 835 | 12.43 | 19400 | 1.49 | DLSF87 | DE3-160M-4 | 200 | 62 |
| | 131 | 750 | 11.13 | 19100 | 1.65 | DLSA87 | DE3-160M-4 | 182 | 60 |
| | 157 | 630 | 9.29 | 18600 | 1.81 | DLSAF87 | DE3-160M-4 | 200 | 62 |
| 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 |
| | 44 | 2980 | 33.03 | 30800 | 1.07 | DLSAF97 | DE3-160L-4 | 291 | 66 |
| | 51 | 2580 | 28.61 | 27000 | 1.18 | DLS87 | DE3-160L-4 | 272 | 63 |
| | 61 | 2200 | 24.13 | 26300 | 1.20 | DLSF87 | DE3-160L-4 | 291 | 66 |
| | 61 | 2190 | 24.09 | 26300 | 1.19 | DLSA87 | DE3-160L-4 | 269 | 64 |
| | 67 | 2000 | 21.70 | 26300 | 1.30 | DLSAF87 | DE3-160L-4 | 291 | 66 |
| | 71 | 1910 | 20.74 | 26200 | 1.36 | DLS87 | DE3-160L-4 | 207 | 59 |
| | 74 | 1830 | 19.66 | 26200 | 1.42 | DLSF87 | DE3-160L-4 | 216 | 62 |
| | 85 | 1590 | 17.28 | 25800 | 1.62 | DLSA87 | DE3-160L-4 | 198 | 60 |
| | 94 | 1450 | 15.63 | 25700 | 1.70 | DLSAF87 | DE3-160L-4 | 216 | 62 |
| | 108 | 1260 | 13.53 | 25000 | 1.85 | DLS87 | DE3-160L-4 | 227 | 63 |
| | 128 | 1060 | 11.41 | 24500 | 2.1 | DLSF87 | DE3-160L-4 | 247 | 66 |
| | 149 | 910 | 9.81 | 24300 | 2.2 | DLSA87 | DE3-160L-4 | 227 | 63 |
| | 172 | 795 | 8.51 | 22900 | 2.2 | DLSAF87 | DE3-160L-4 | 247 | 66 |
| 92 | 92 | 1440 | 15.87 | 17900 | 0.86 | DLS87 | DE3-160L-4 | 207 | 59 |
| | 103 | 1310 | 14.27 | 17900 | 0.95 | DLSF87 | DE3-160L-4 | 216 | 62 |
| | 92 | 1440 | 15.87 | 17900 | 0.86 | DLSA87 | DE3-160L-4 | 198 | 60 |
| | 103 | 1310 | 14.27 | 17900 | 0.95 | DLSAF87 | DE3-160L-4 | 216 | 62 |

4.1 DLS..DE3.. 减速电机技术参数表

4.1 Selection tables of DLS..DE3..gelmotors

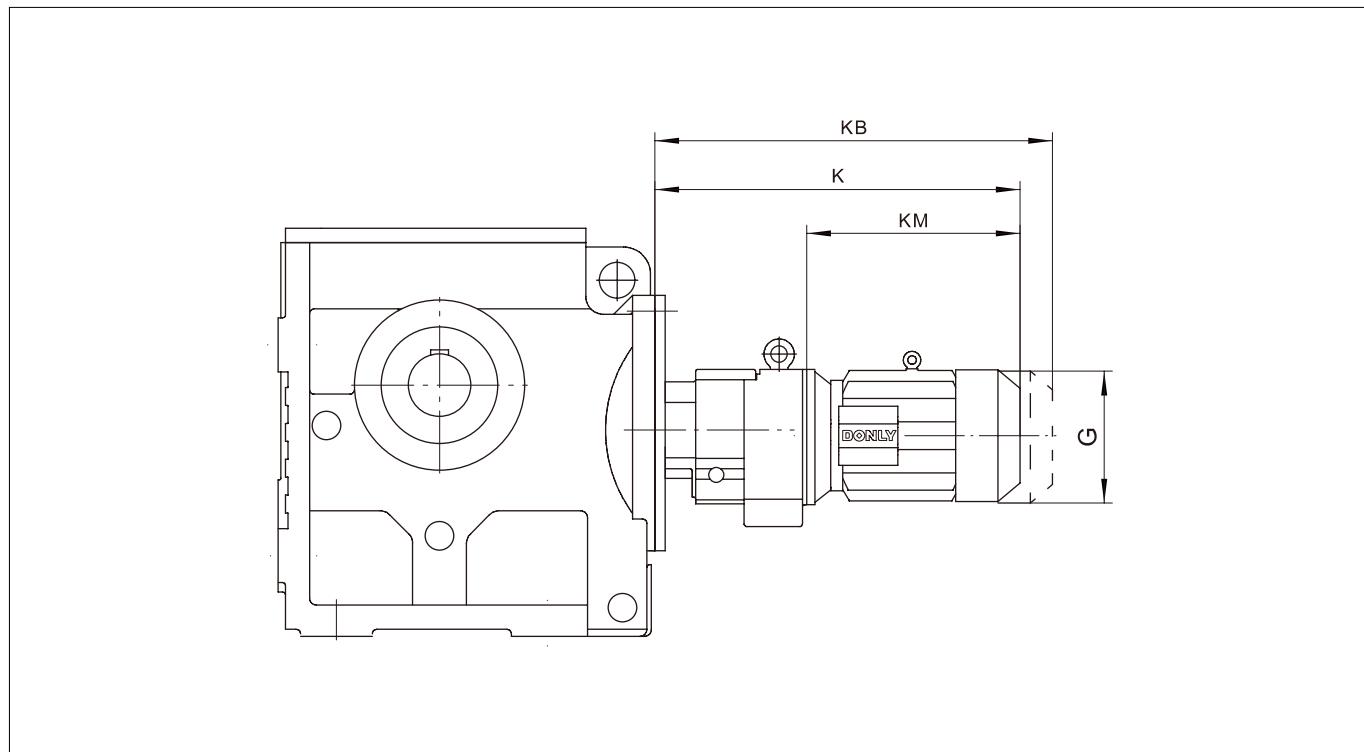
| 功率 Power Pm [Kw] | 转速 Speed na [r/min] | 转矩 Torque Ma [Nm] | 减速比 Ratio I | 径向力 Overhung load FRa [N] | 服务系数 Service factor fB | 规格 Size | 重量 Weight [kg] | 尺寸图 Page |
|---------------------------|--|---|---|---|--|--|--|--|
| 15 | 118 131 157 | 1140 1020 855 | 12.42 11.13 9.29 | 17800 17600 17000 | 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 |
| 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 |
| 22 | 51 61 68 71 75 85 94 109 129 150 173 | 3760 3170 2910 2780 2640 2340 2120 1830 1550 1330 1150 | 28.61 24.13 21.70 20.74 19.66 17.28 15.63 13.53 11.41 9.81 8.51 | 26600 26500 19800 21000 21800 22300 22400 22300 22100 21700 21300 | 0.81 0.82 0.89 0.94 0.98 1.10 1.17 1.27 1.43 1.53 1.54 | DLS97 DLSF97 DLSA97 DLSAF97 DLS97 DLSF97 DLSA97 DLSAF97 | DE3-180L-4 DE3-180L-4 DE3-180L-4 DE3-180L-4 DE3-180L-4 DE3-180L-4 DE3-180L-4 DE3-180L-4 DE3-180L-4 DE3-180L-4 | 322 342 320 342 322 342 320 342 |

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors



| 齿轮箱 Gearbox | 电机 Motor | G | K | KB | KM |
|----------------|-------------|---------|-----|-----|-----|
| DLS..37R17 | DE3-63.. | Φ150 | 378 | 443 | 245 |
| DLS..47R17 | DE3-71.. | Φ150 | 378 | 443 | 245 |
| DLS..57R17 | DE3-63.. | Φ150 | 402 | 467 | 245 |
| DLS..67R37 | 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 |

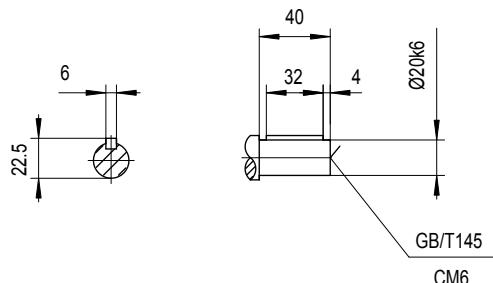
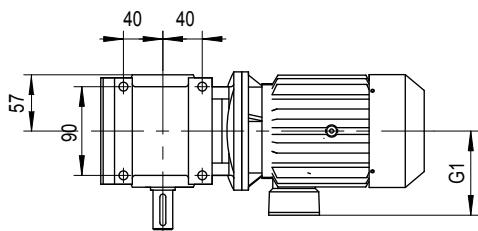
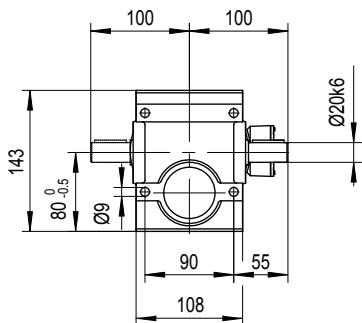
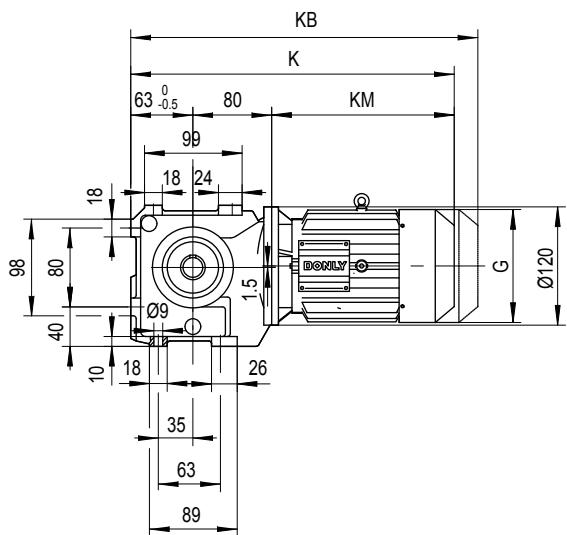
注：KB 为带制动器的长度。

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..gatemotors

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。

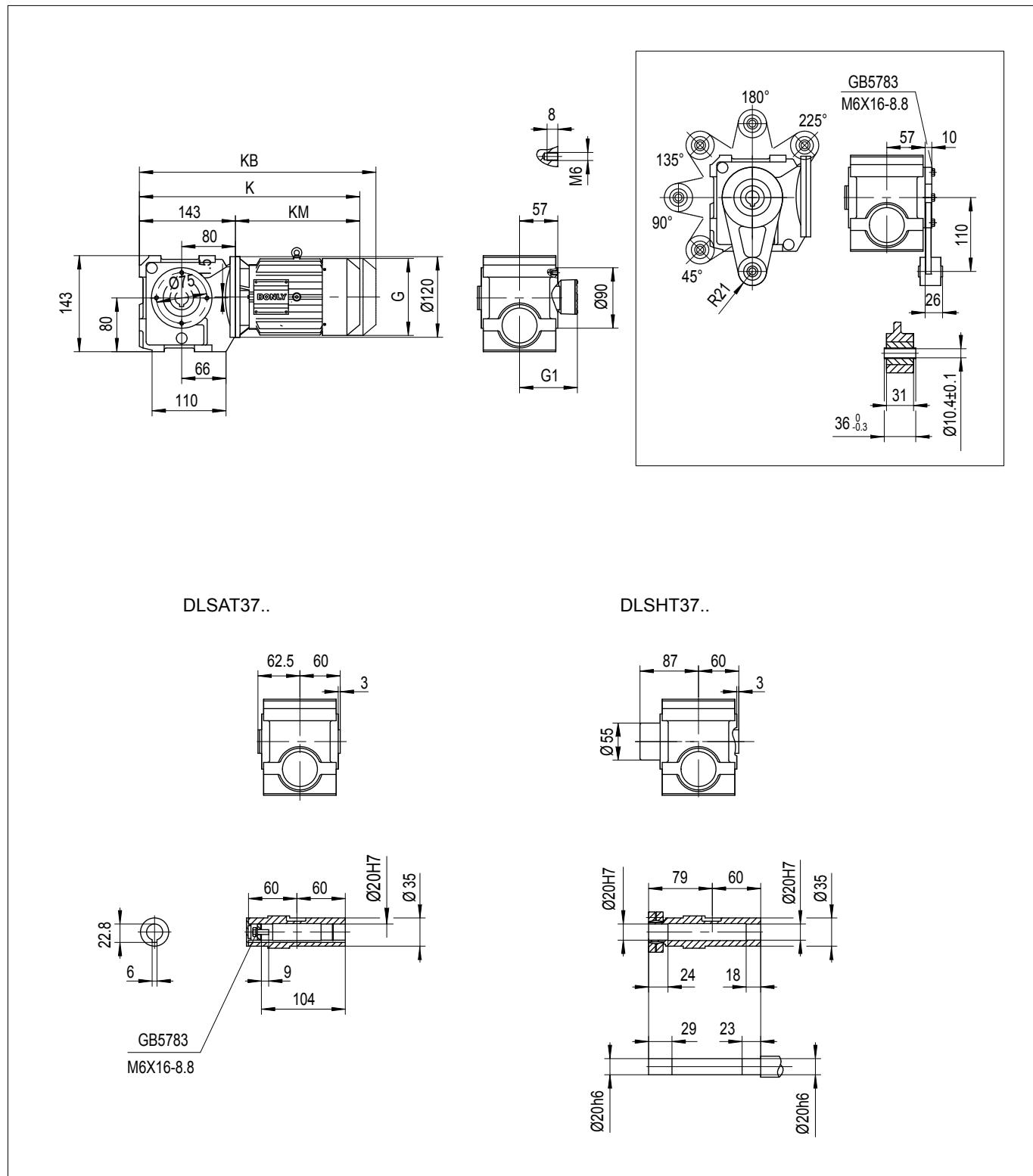
Note: KB is the length dimension with brake

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors



| | DE3-63 | DE3-71 | DE3-80 | DE3-90S | DE3-90L |
|---------|--------|--------|---------|---------|---------|
| G (AC) | Ø150 | Ø150 | 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。

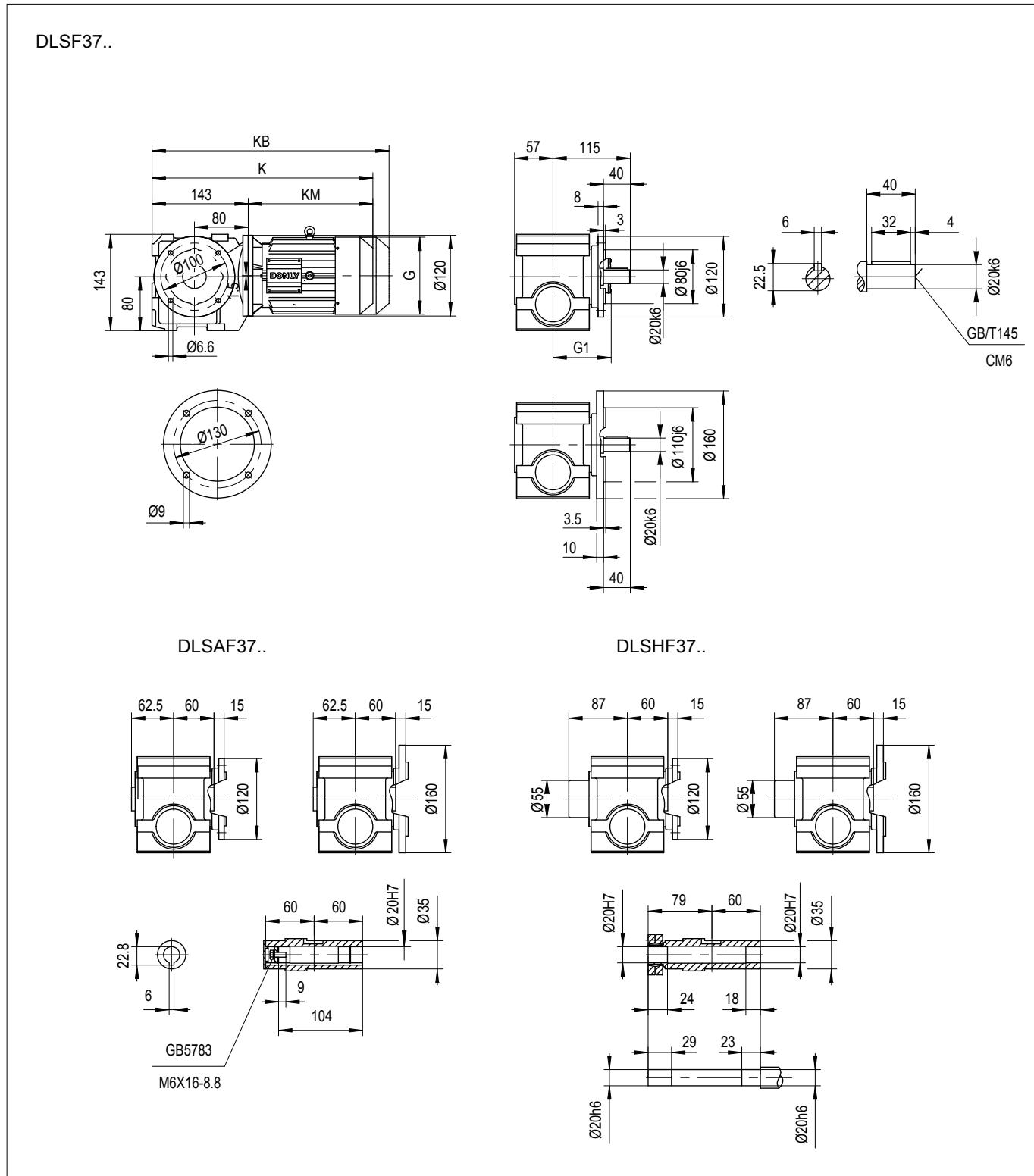
Note: KB is the length dimension with brake

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors



| | 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。

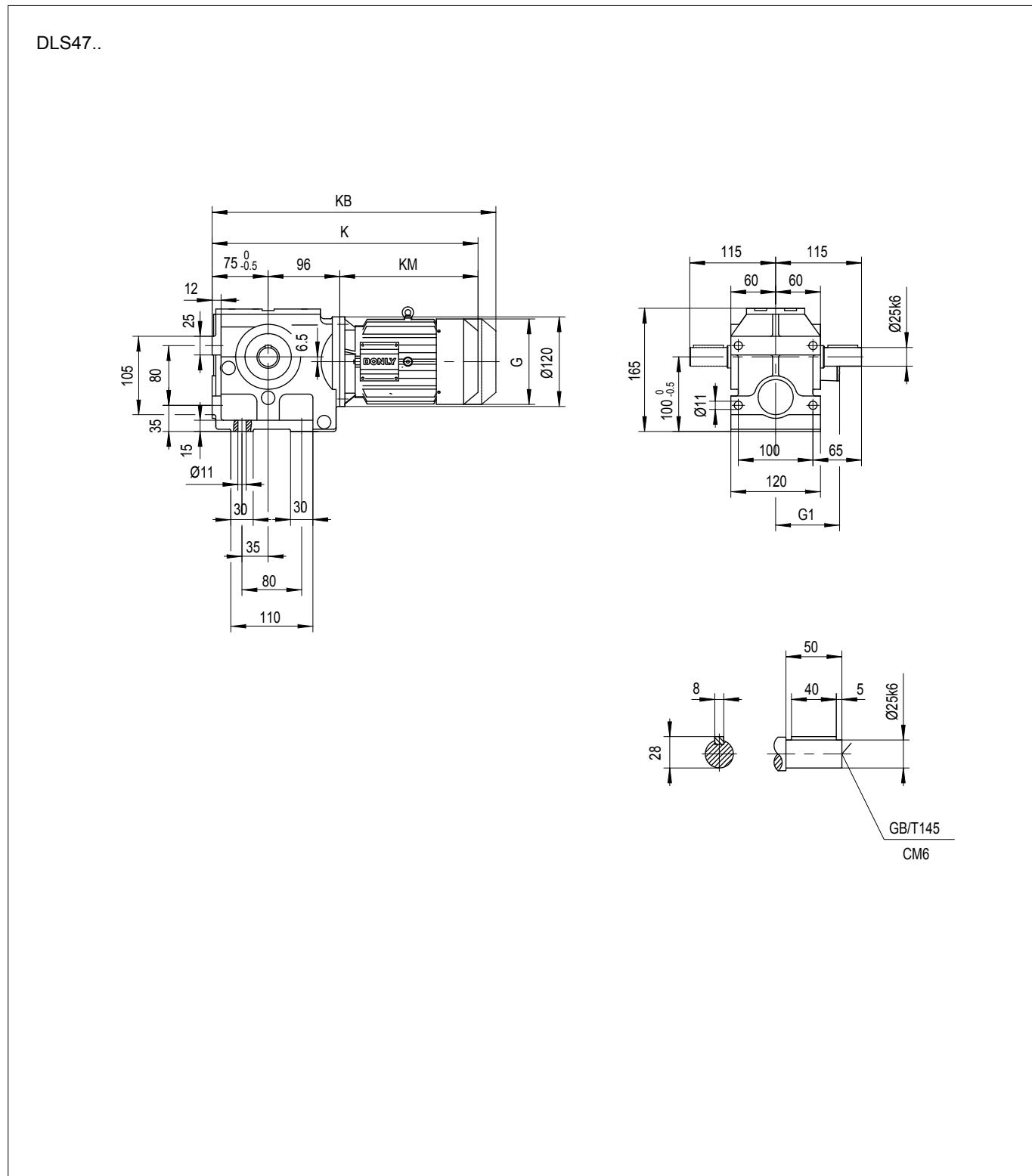
Note: KB is the length dimension with brake

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors



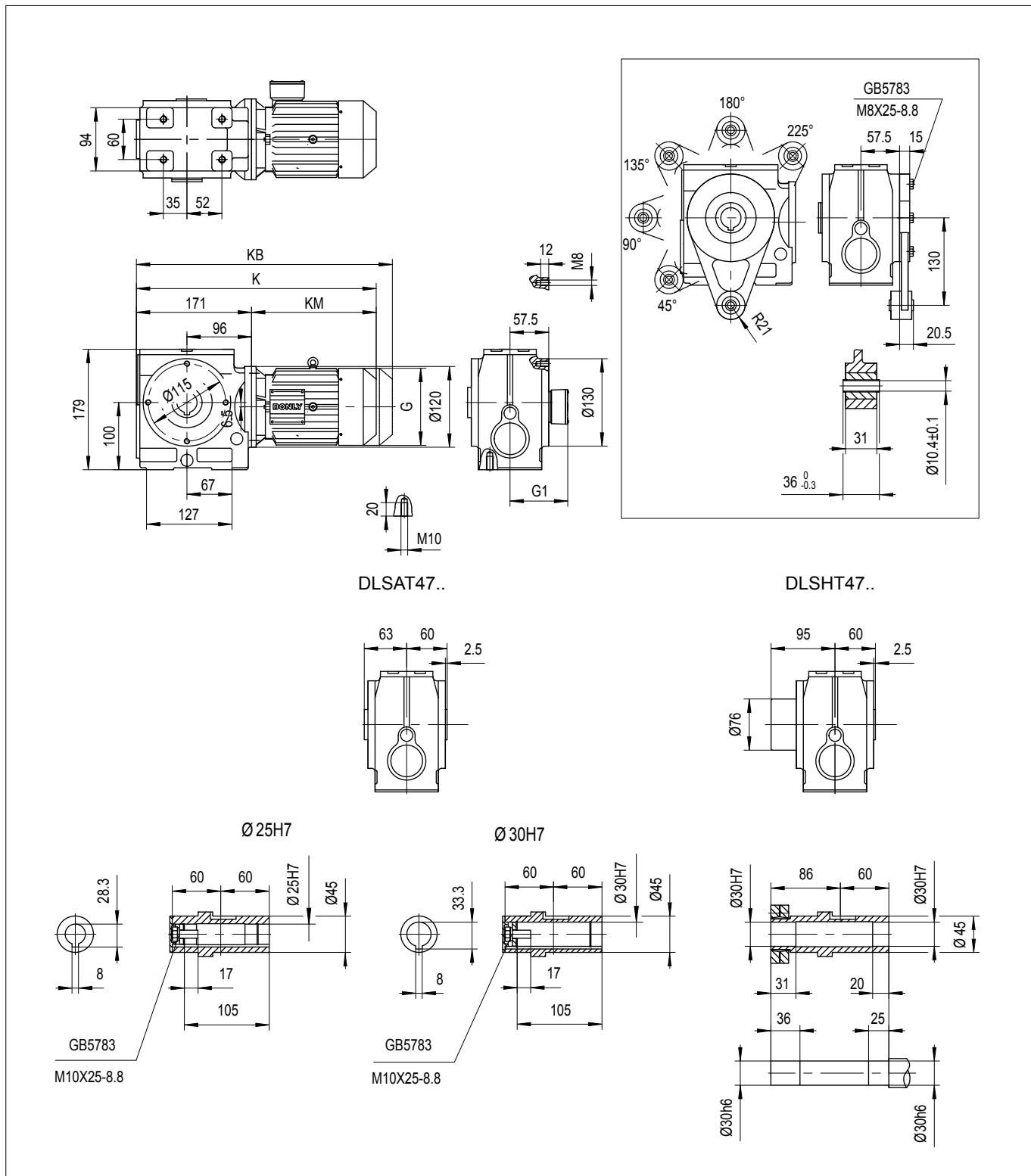
| | DE3-63 | DE3-71 | DE3-80 | DE3-90S | DE3-90L | |
|---------|--------|--------|---------|---------|---------|--|
| G (AC) | Ø150 | Ø150 | 150×150 | 170×170 | 170×170 | |
| G1 (AD) | 130 | 130 | 145 | 155 | 155 | |
| K | 426 | 426 | 476 | 471 | 501 | |
| KB | 491 | 491 | 551 | 541 | 581 | |
| KM (LB) | 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..gatemotors



| | 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。

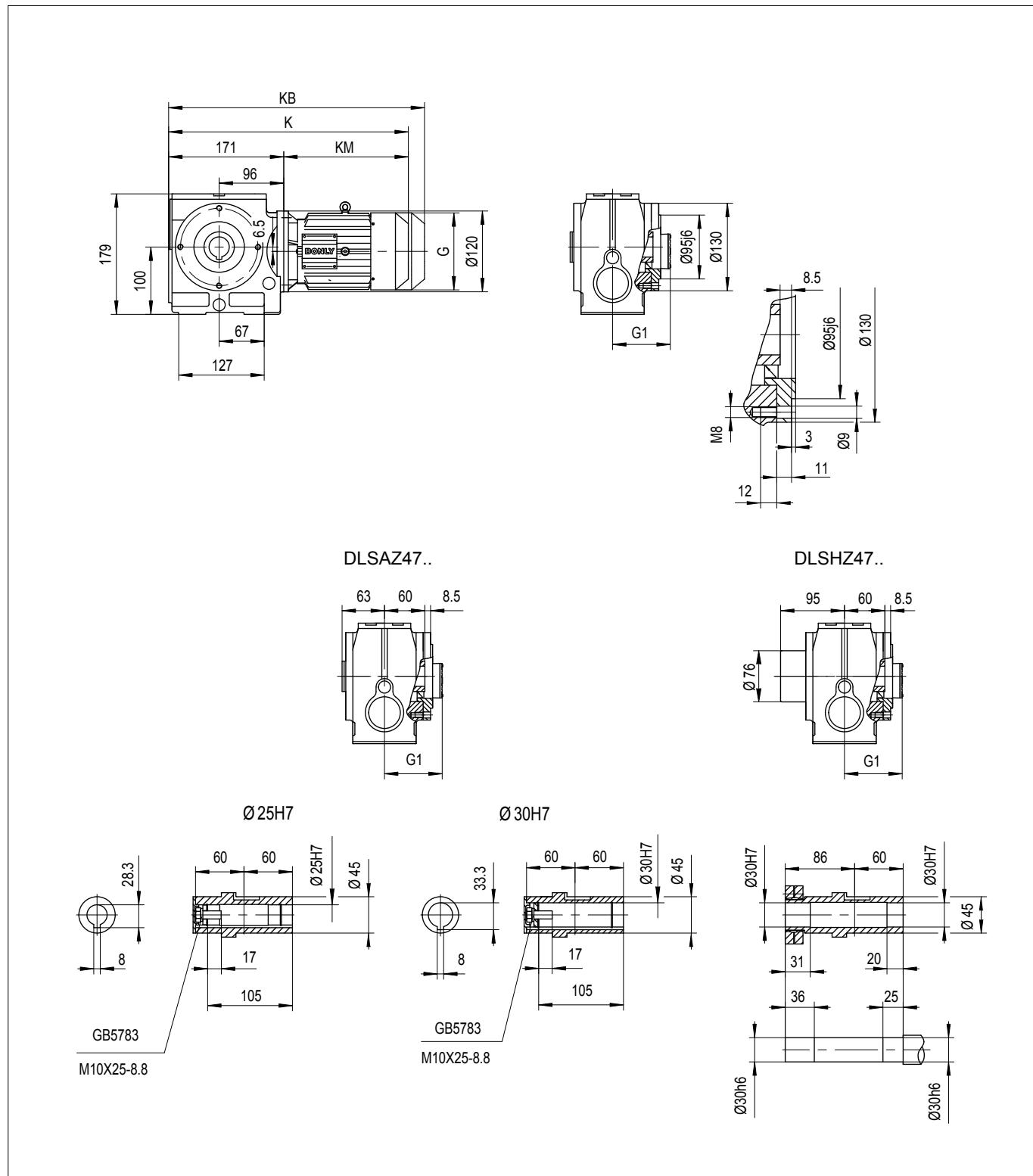
Note: KB is the length dimension with brake

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors



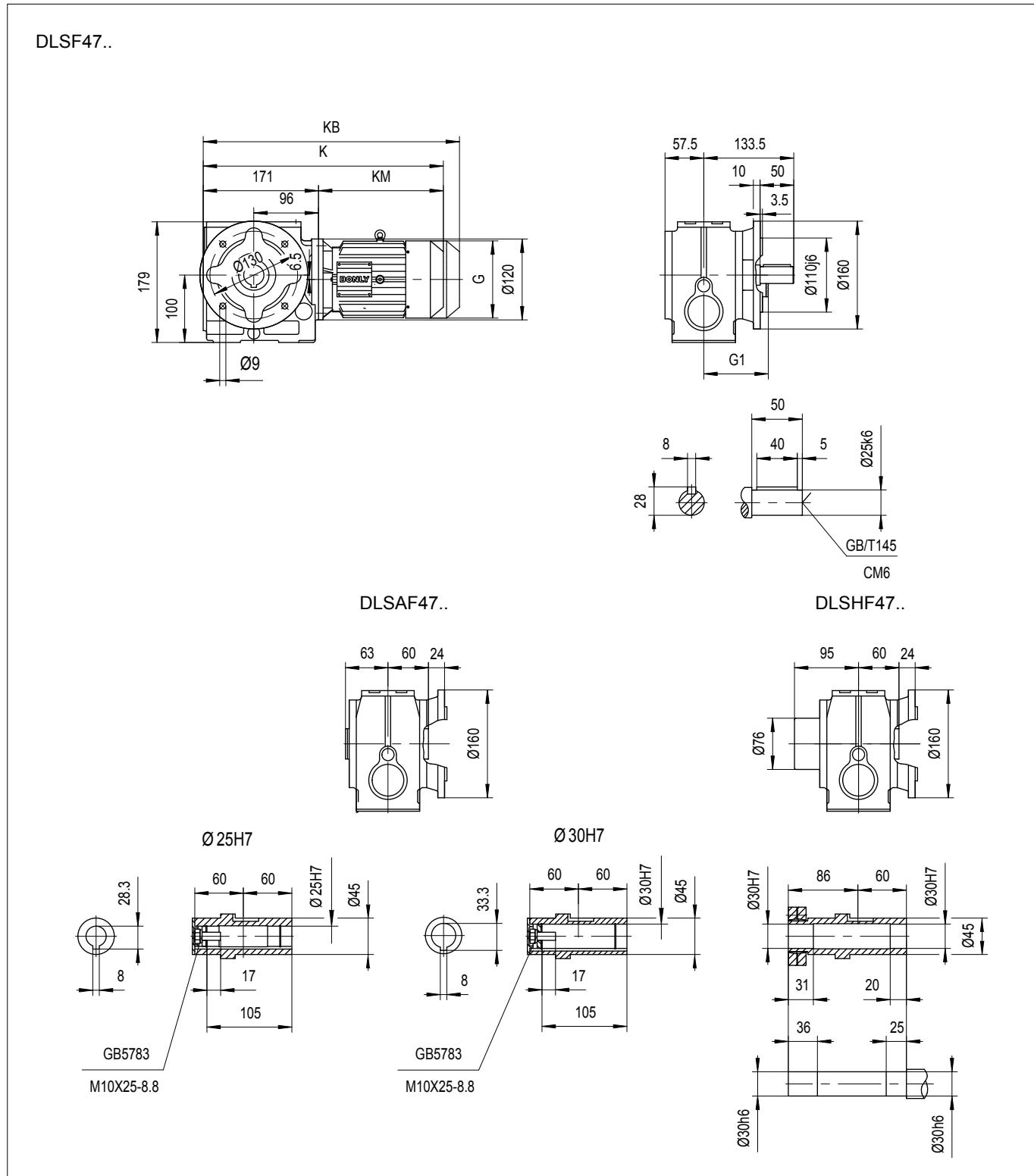
| | DE3-63 | DE3-71 | DE3-80 | DE3-90S | DE3-90L | |
|---------|--------|--------|---------|---------|---------|--|
| G (AC) | Φ150 | Φ150 | 150×150 | 170×170 | 170×170 | |
| G1 (AD) | 130 | 130 | 145 | 155 | 155 | |
| K | 426 | 426 | 476 | 471 | 501 | |
| KB | 491 | 491 | 551 | 541 | 581 | |
| KM (LB)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



| | 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。

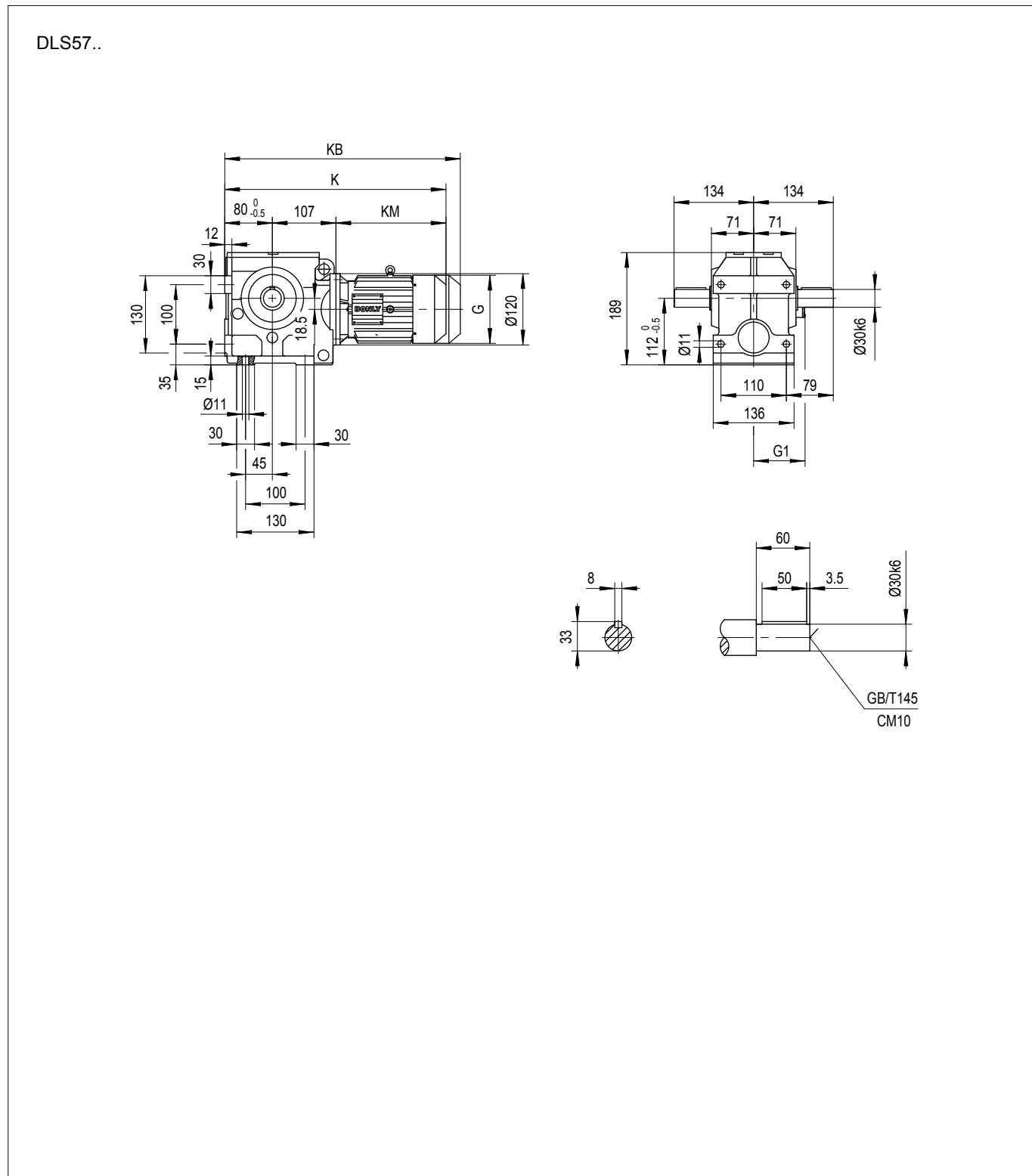
Note: KB is the length dimension with brake

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors



| | 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。

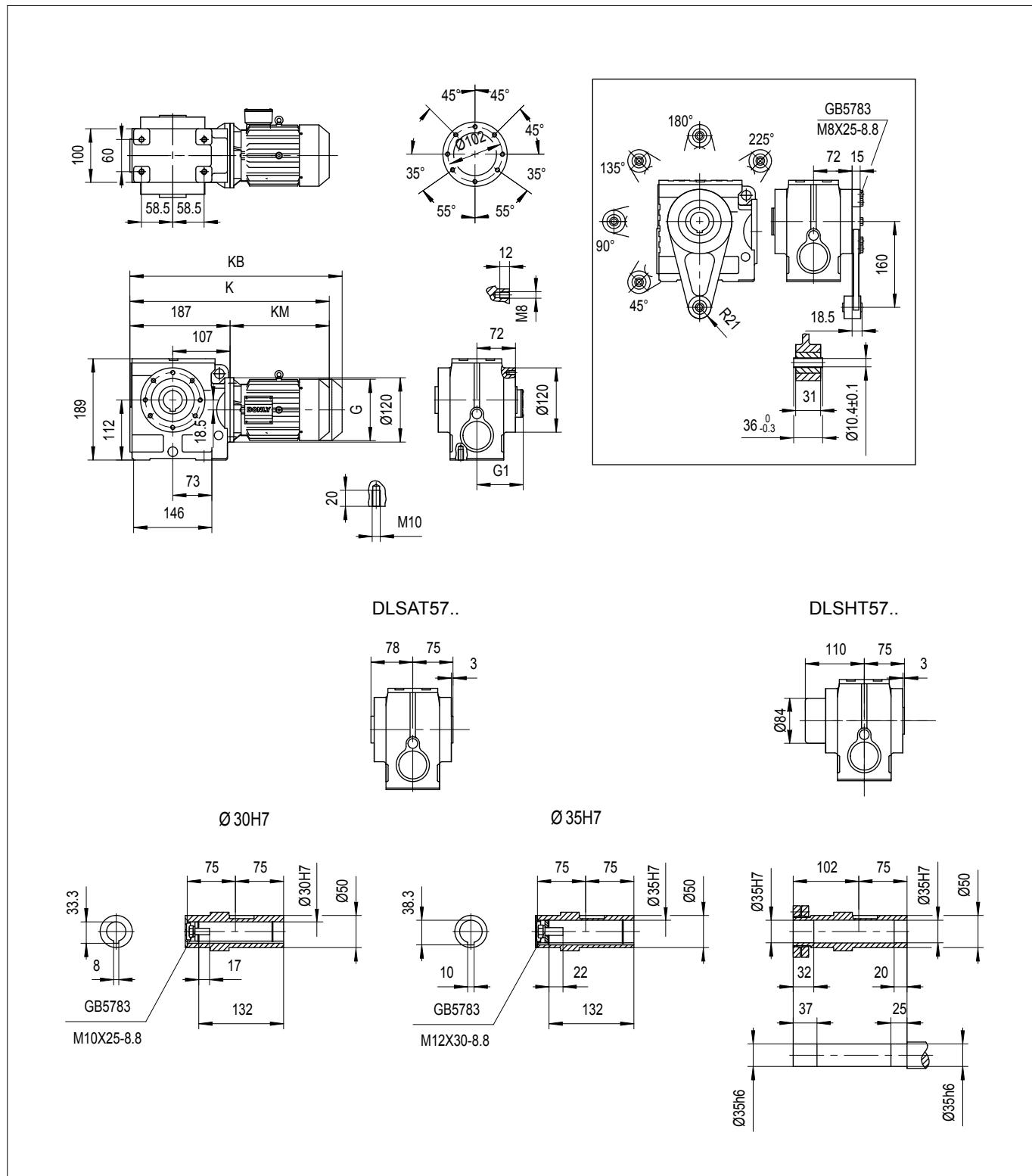
Note: KB is the length dimension with brake

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors



| | 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。

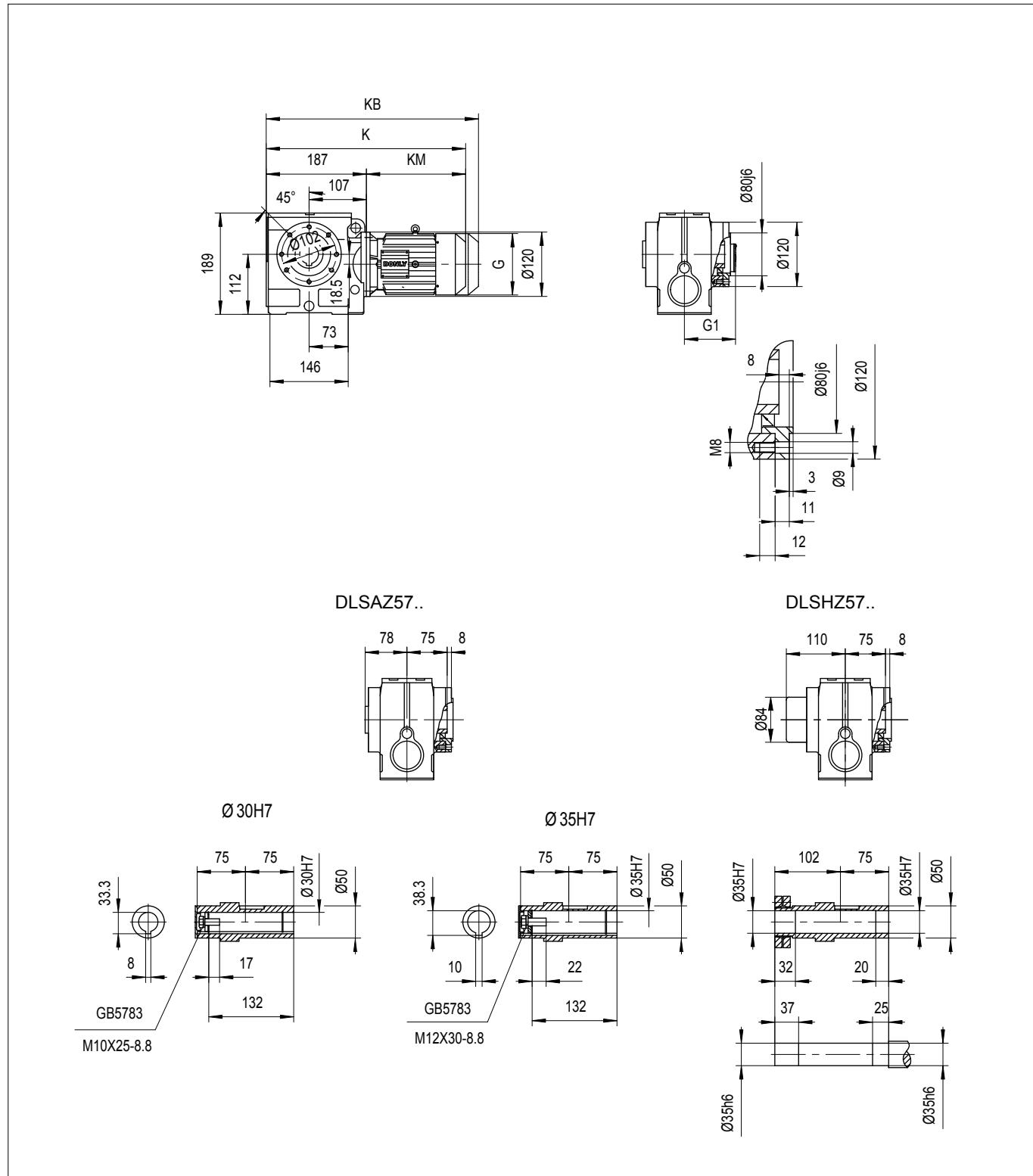
Note: KB is the length dimension with brake

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors



| | 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 |

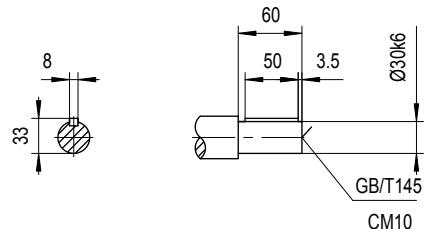
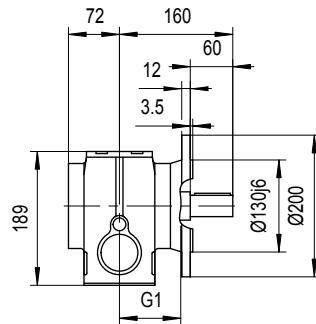
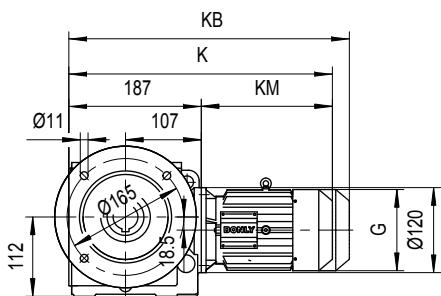
注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

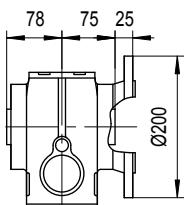
4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors

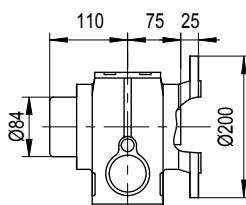
DLSF57..



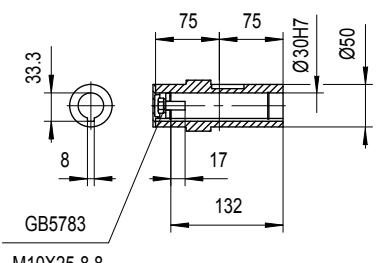
DLSAF57..



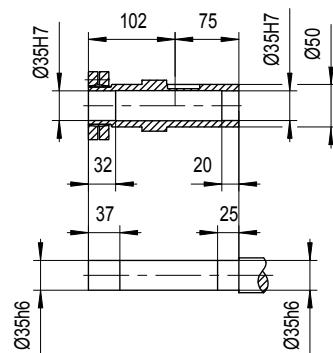
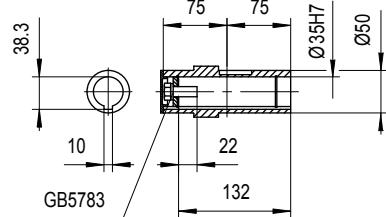
DLSHF57..



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。

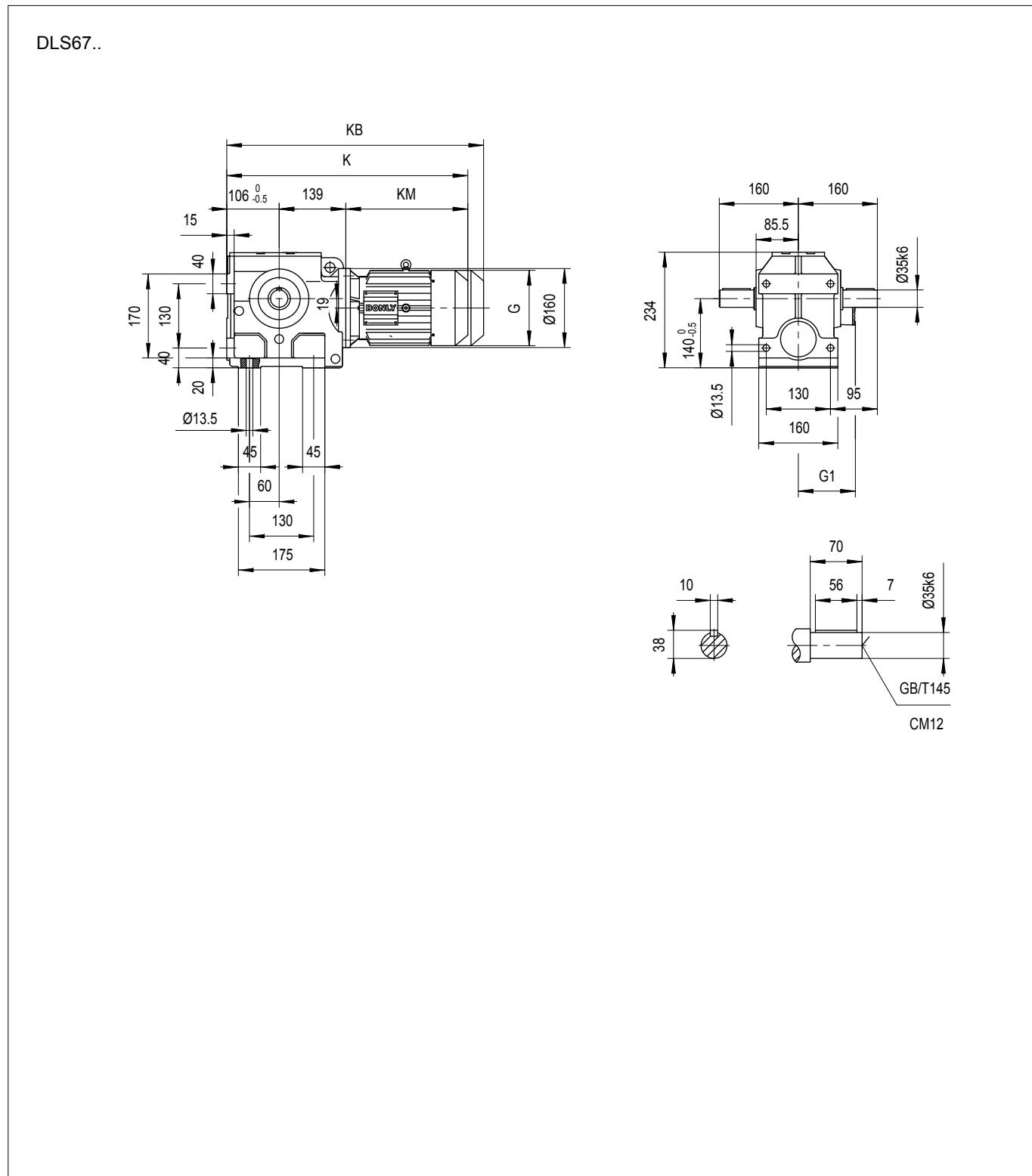
Note: KB is the length dimension with brake

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors



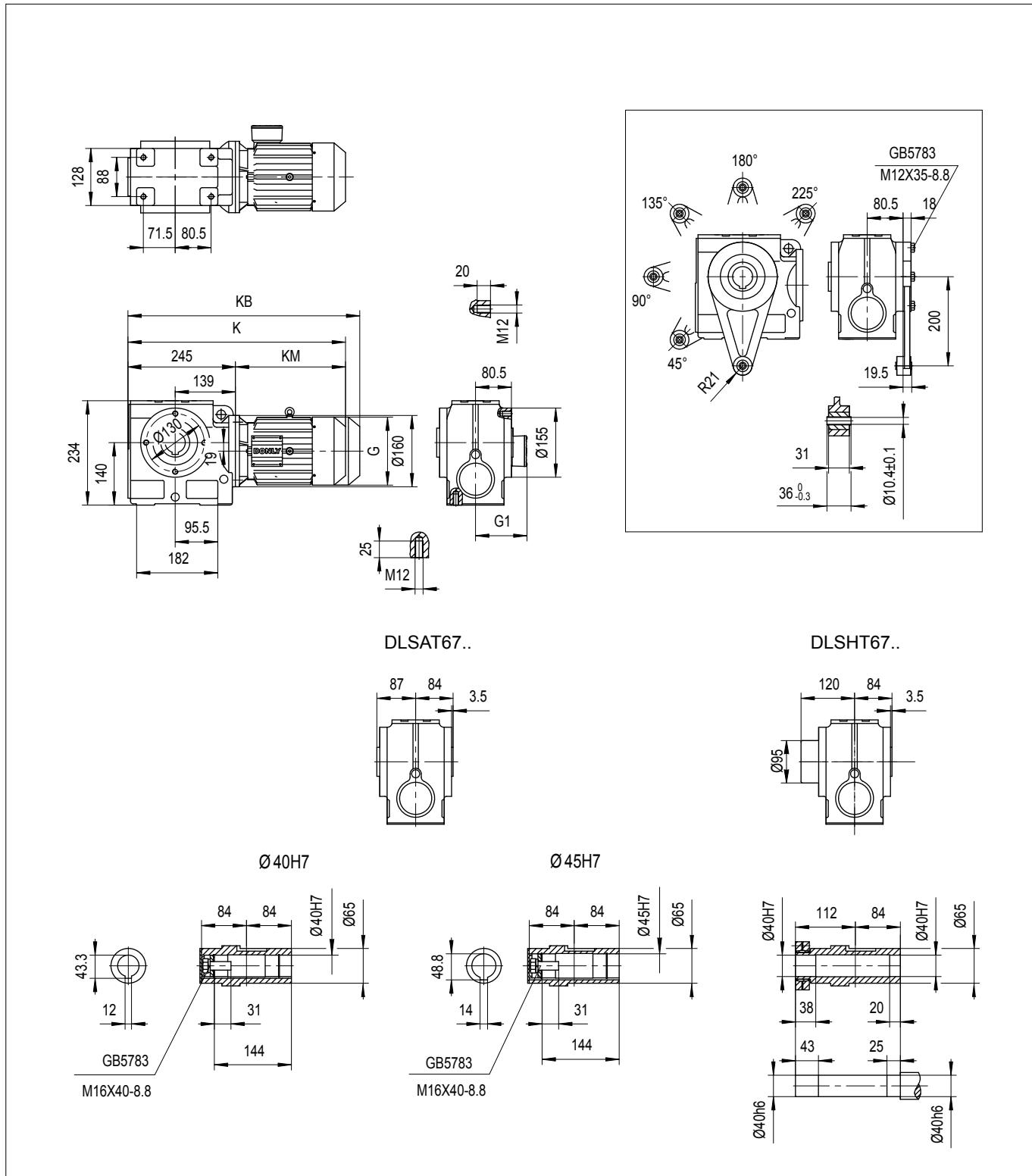
| | DE3-63 | DE3-71 | DE3-80 | DE3-90S | DE3-90L | DE3-100 | DE3-112M | DE3-132S |
|---------|--------|--------|---------|---------|---------|---------|----------|----------|
| G (AC) | Φ150 | Φ150 | 150×150 | 170×170 | 170×170 | 191×191 | 215×215 | 255×255 |
| G1 (AD) | 130 | 130 | 145 | 155 | 155 | 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..gatemotors



| | 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。

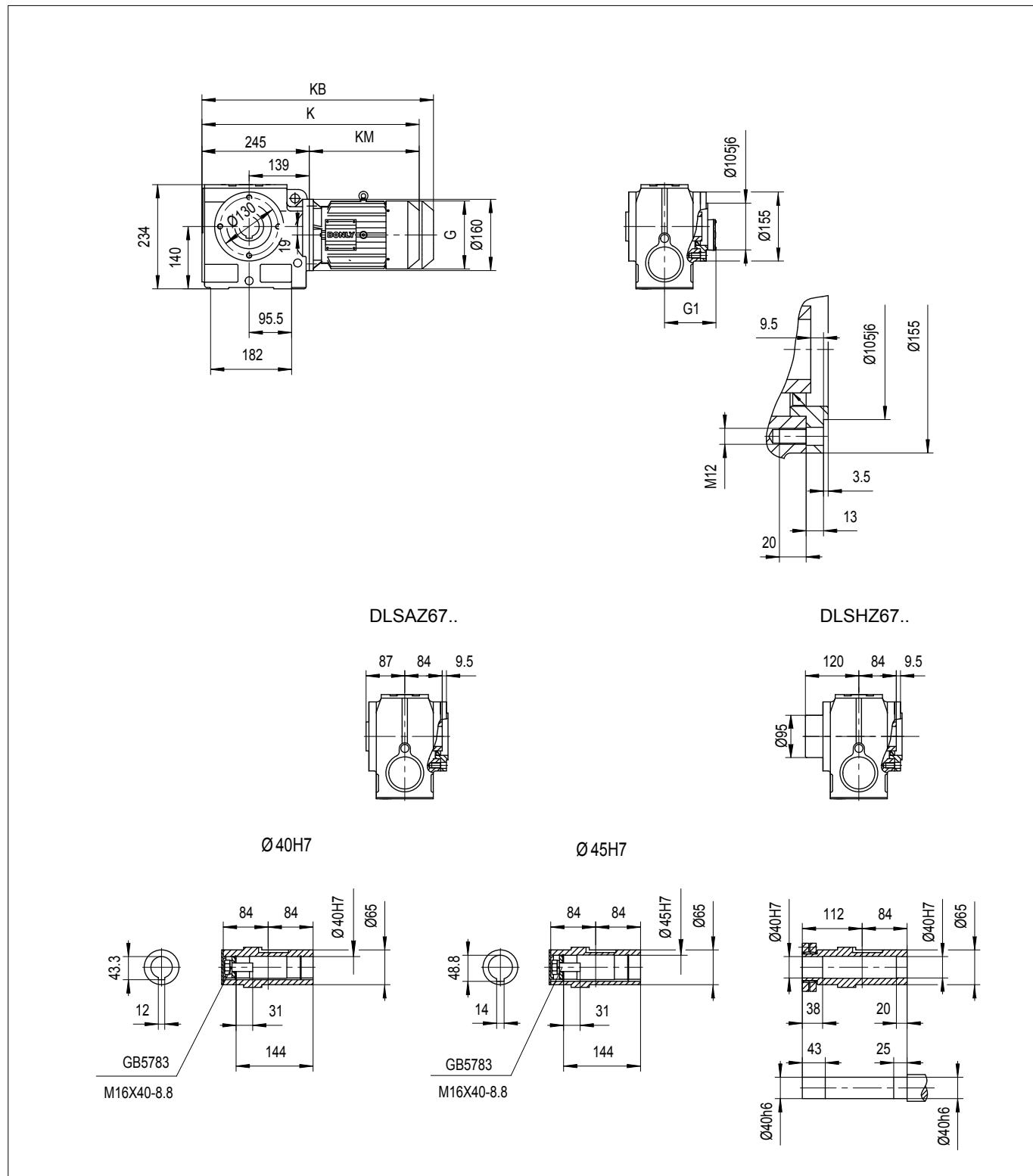
Note: KB is the length dimension with brake

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors



| | 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

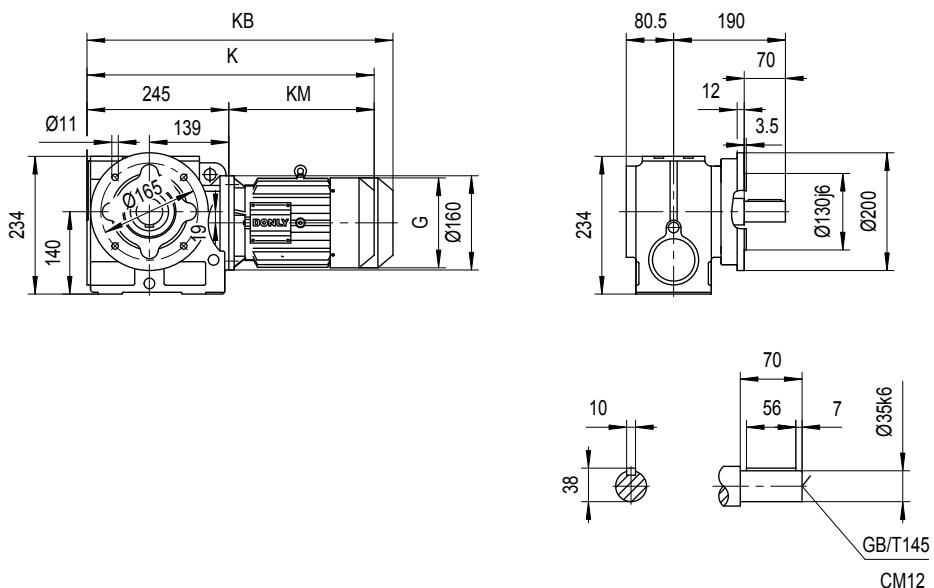
技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

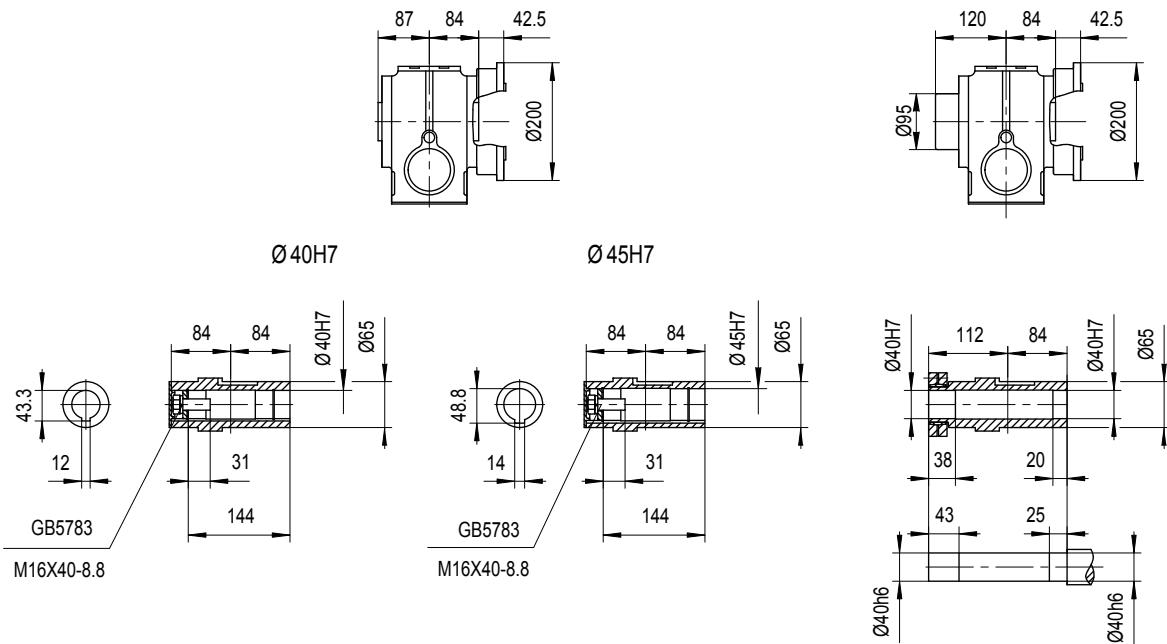
4.2 Dimensions of DLS..DE3..gatemotors

DLSF67..



DLSAF67..

DLSHF67..



| | 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。

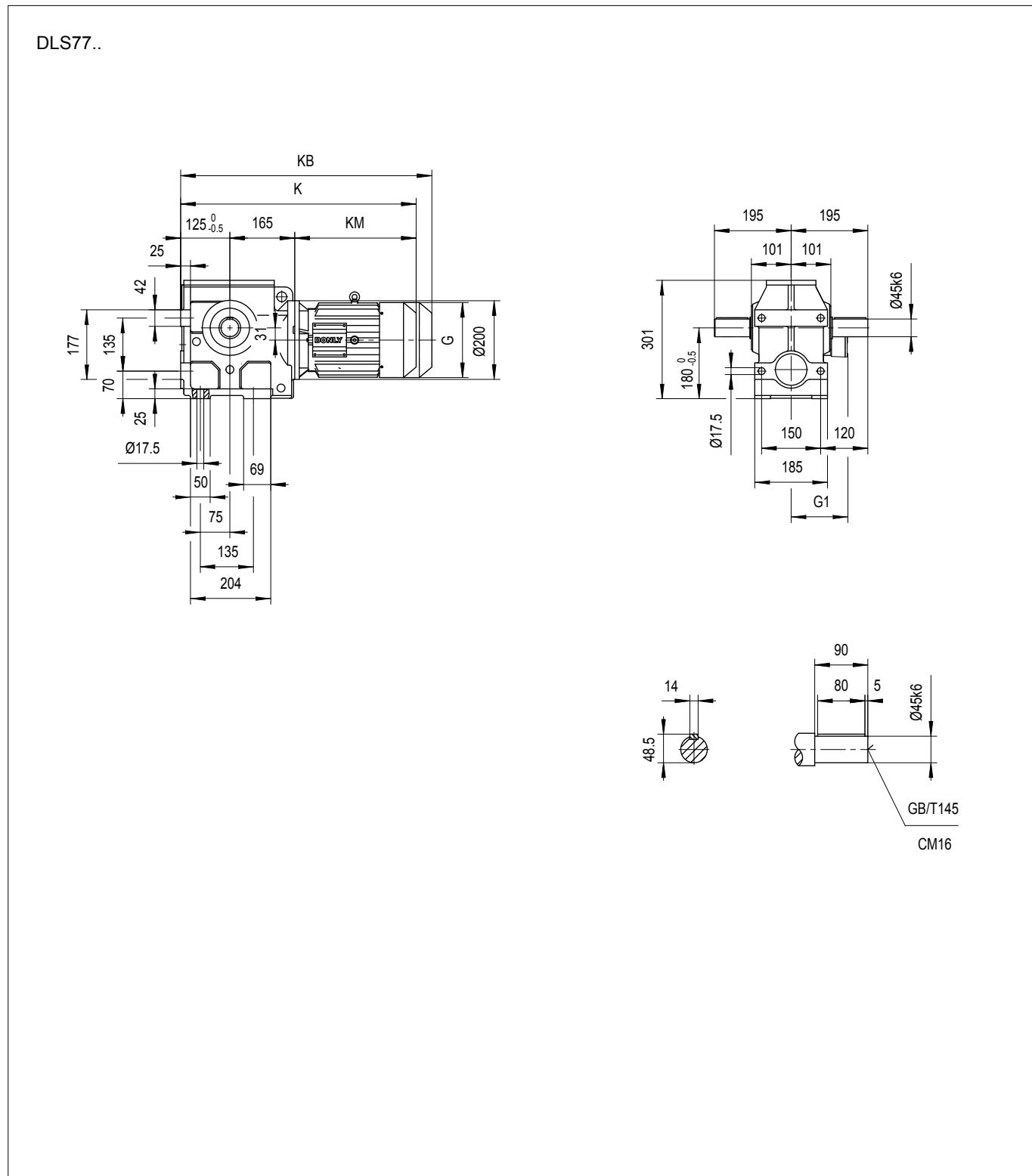
Note: KB is the length dimension with brake

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors



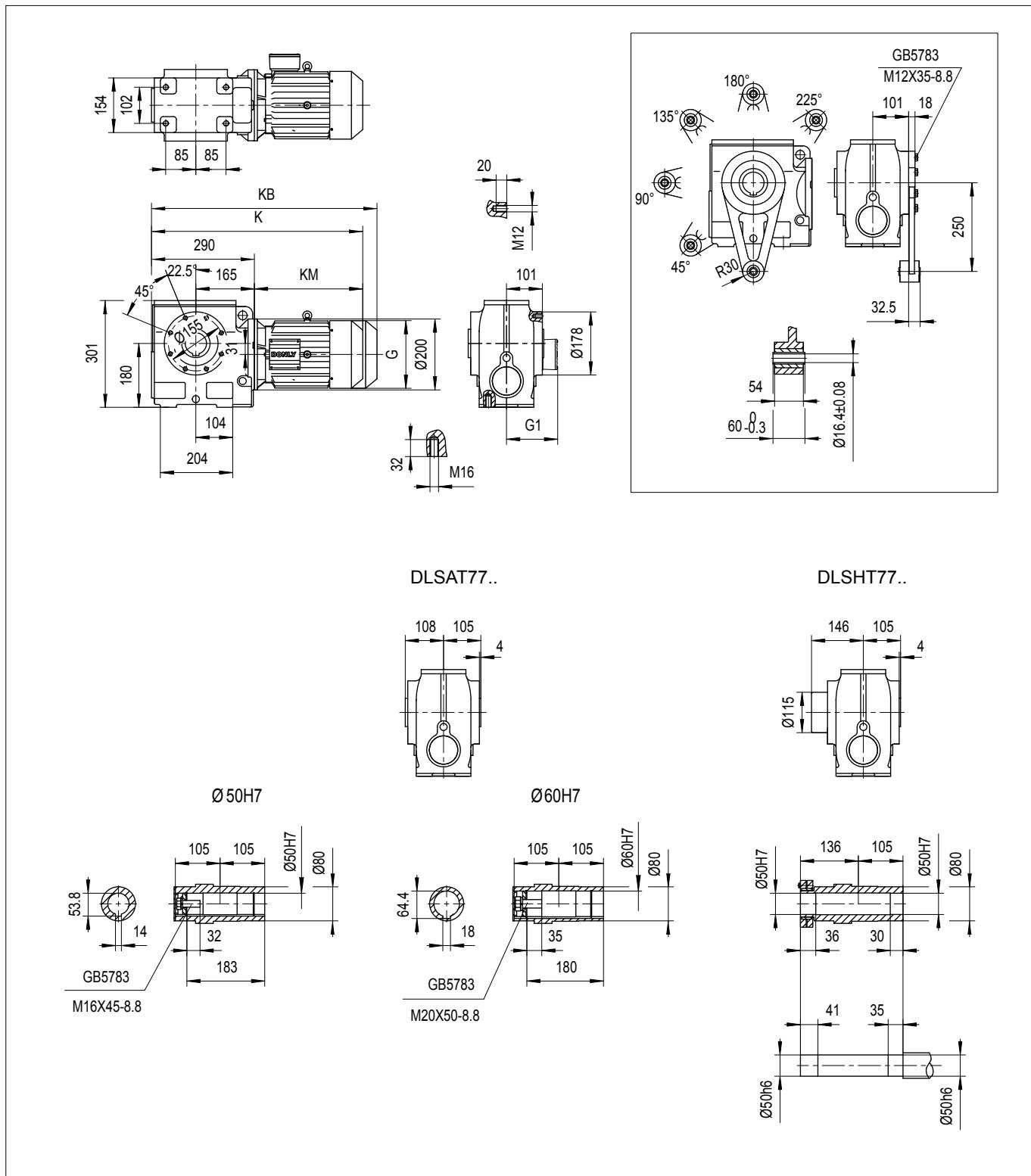
| | DE3-80 | DE3-90S | DE3-90L | DE3-100 | DE3-112M | DE3-132S | DE3-132M | DE3-132L |
|---------|---------|---------|---------|---------|----------|----------|----------|----------|
| G (AC) | 150×150 | 170×170 | 170×170 | 191×191 | 215×215 | 255×255 | 255×255 | 255×255 |
| G1 (AD) | 145 | 155 | 155 | 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..gatemotors



| | 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。

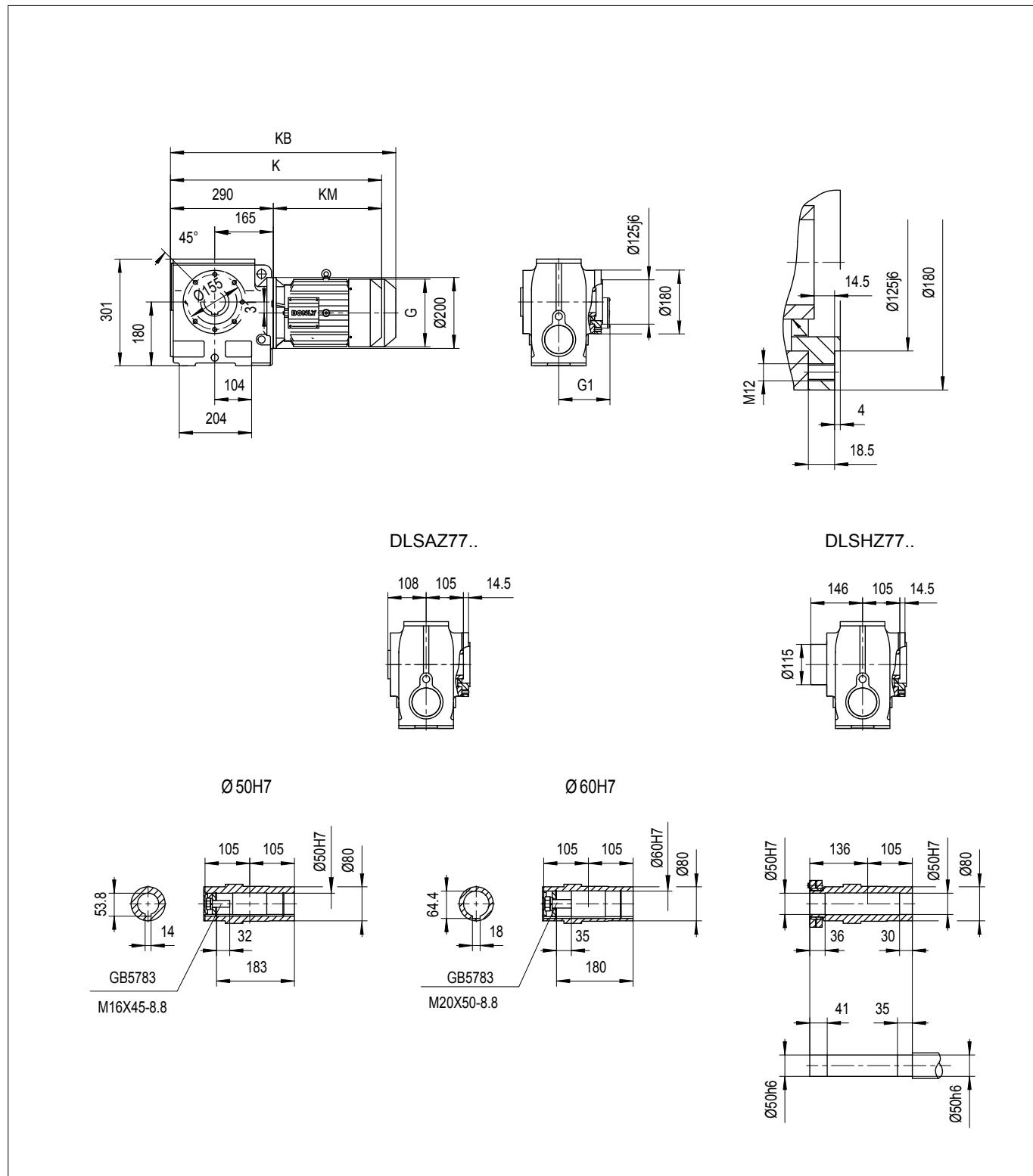
Note: KB is the length dimension with brake

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors



| | 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 |

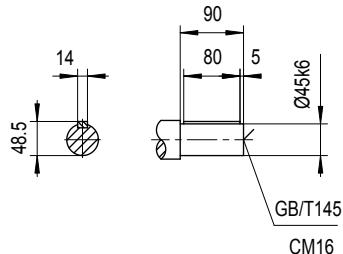
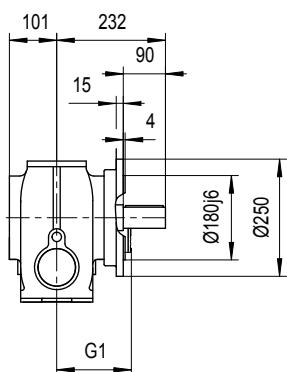
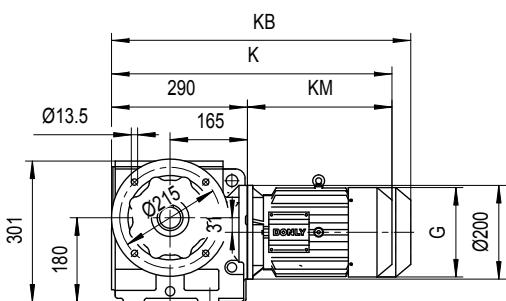
注：KB 为带制动器的长度。

Note: KB is the length dimension with brake

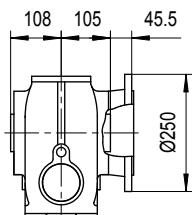
4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors

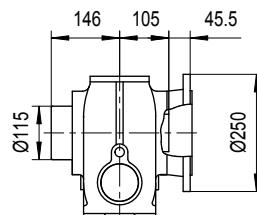
DLSF77..



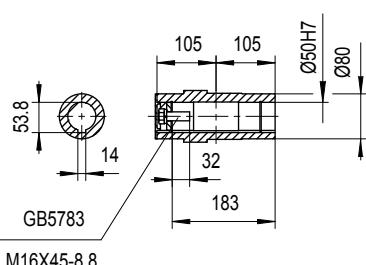
DLSAF77..



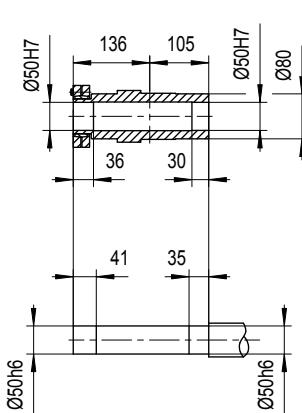
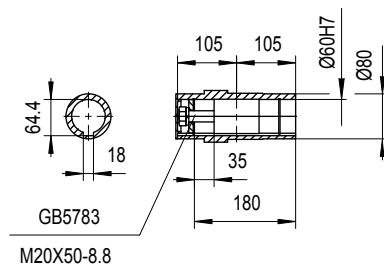
DLSHF77..



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。

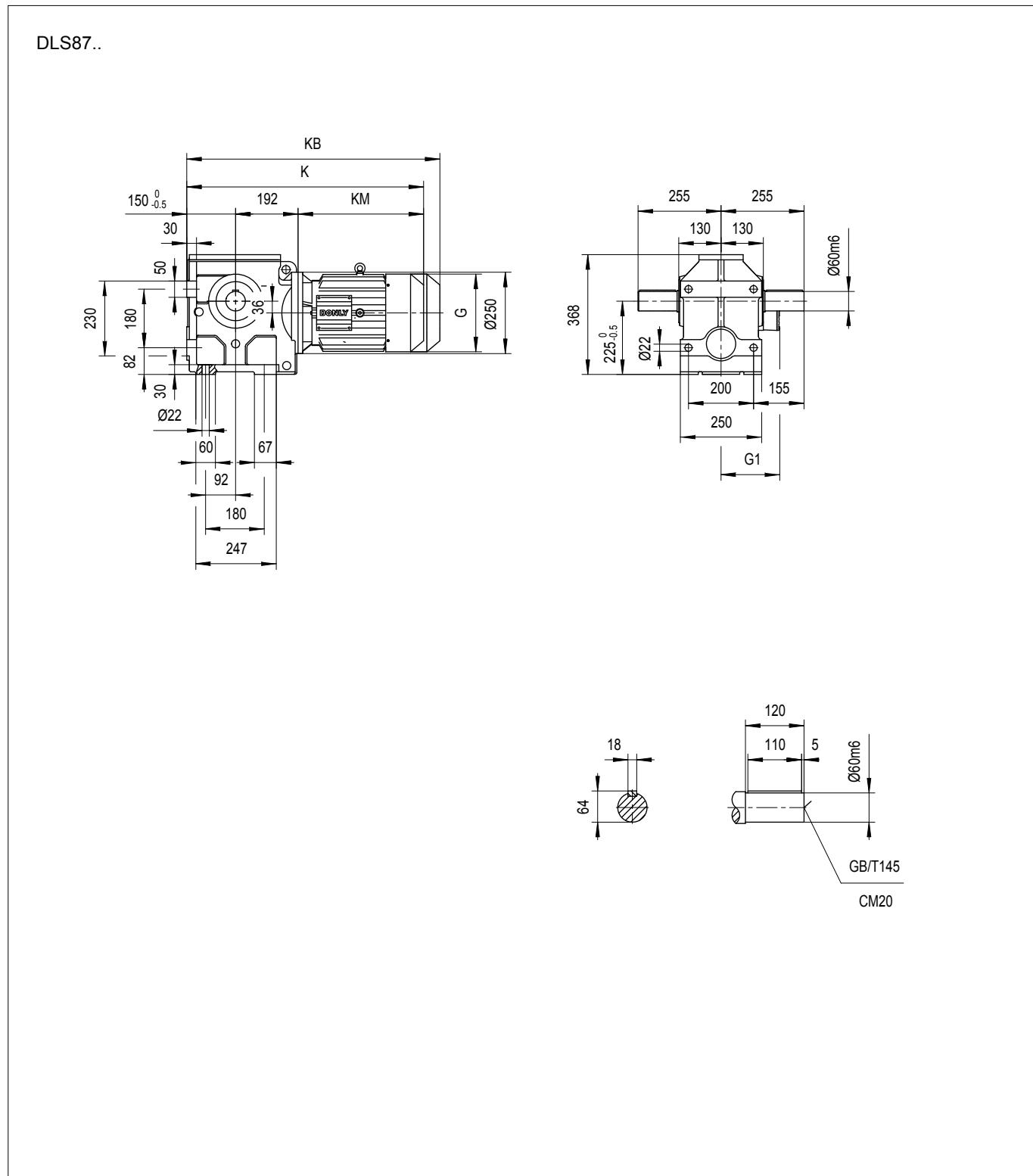
Note: KB is the length dimension with brake

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors



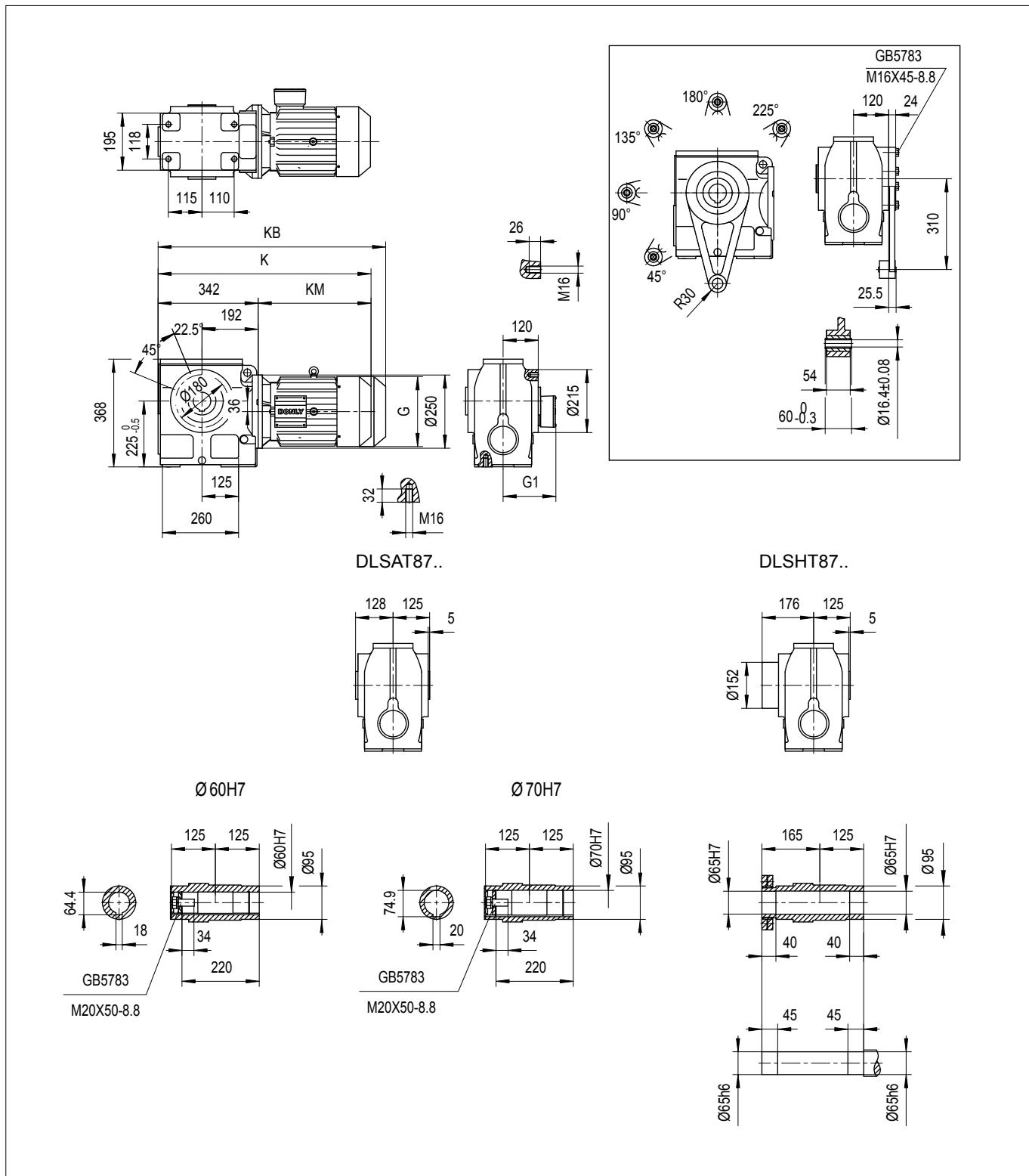
| | DE3-80 | DE3-90S | DE3-90L | DE3-100 | DE3-112M | DE3-132S | DE3-132M | DE3-132L | DE3-160 |
|---------|---------|---------|---------|---------|----------|----------|----------|----------|---------|
| G (AC) | 150×150 | 170×170 | 170×170 | 191×191 | 215×215 | 255×255 | 255×255 | 255×255 | 310×310 |
| 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..gatemotors



| | 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。

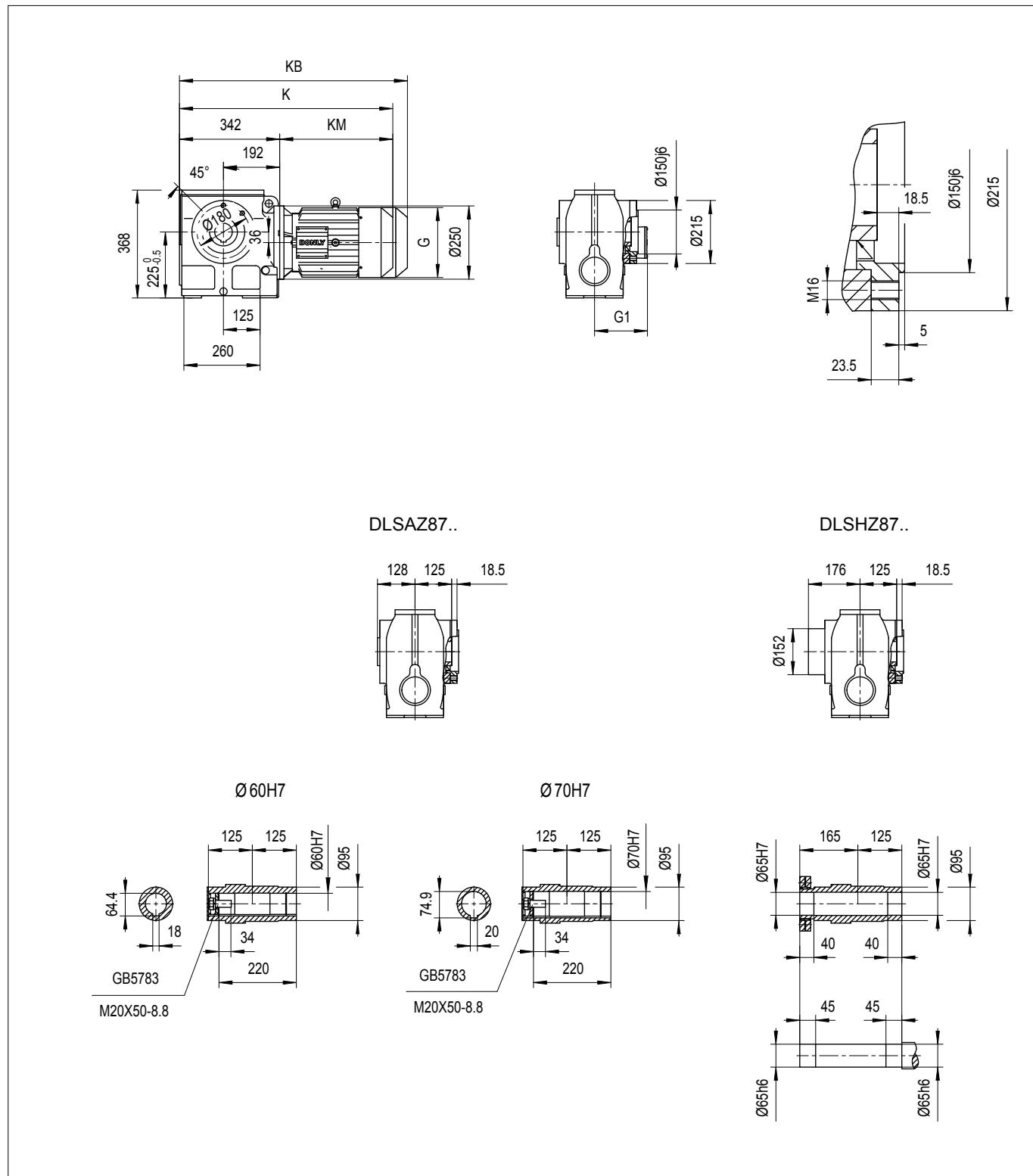
Note: KB is the length dimension with brake

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors



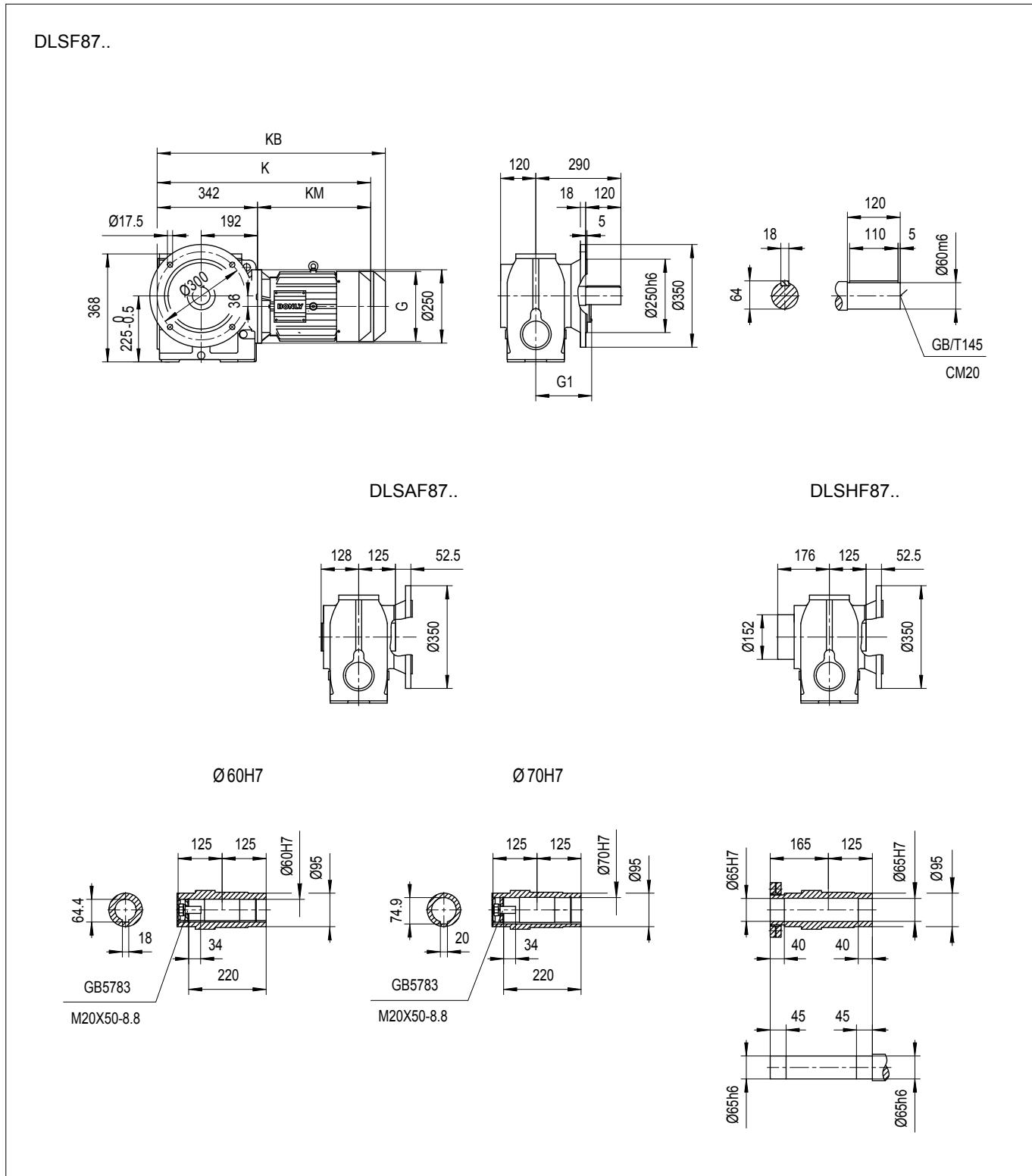
| | DE3-80 | DE3-90S | DE3-90L | DE3-100 | DE3-112M | DE3-132S | DE3-132M | DE3-132L | DE3-160 |
|---------|---------|---------|---------|---------|----------|----------|----------|----------|---------|
| G (AC) | 150×150 | 170×170 | 170×170 | 191×191 | 215×215 | 255×255 | 255×255 | 255×255 | 310×310 |
| 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..gatemotors



| | 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。

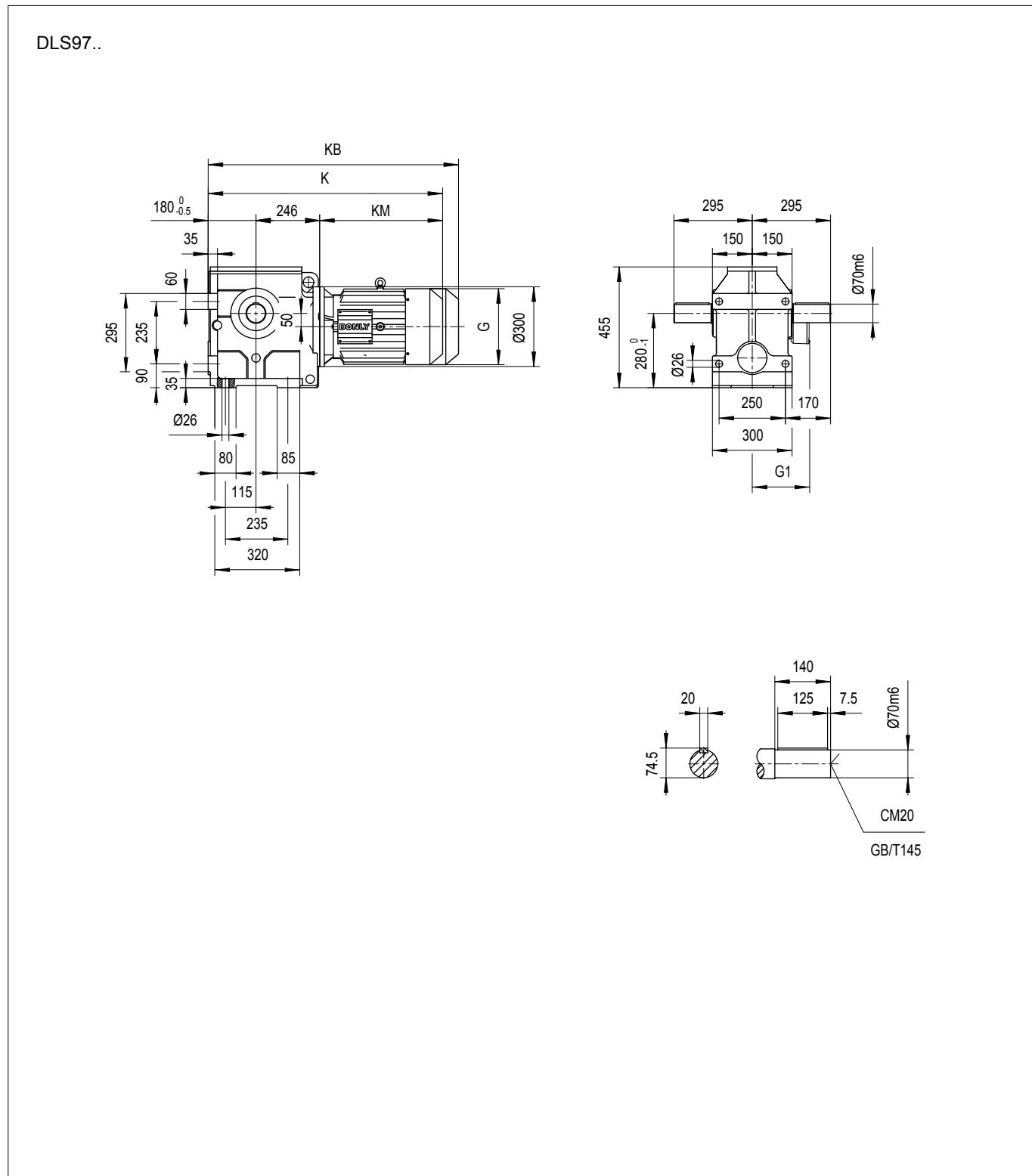
Note: KB is the length dimension with brake

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors



| | 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。

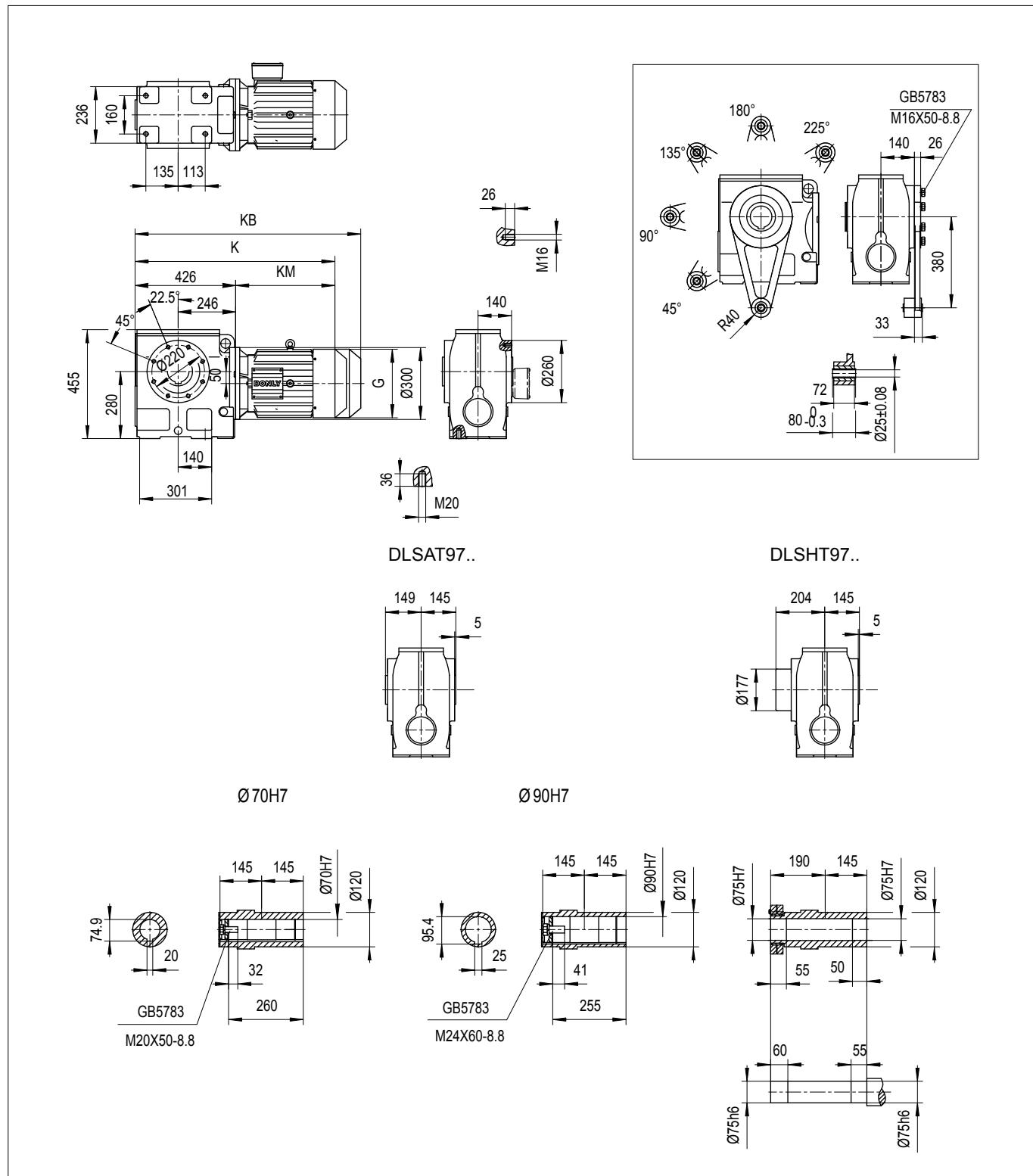
Note: KB is the length dimension with brake

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors



| | 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。

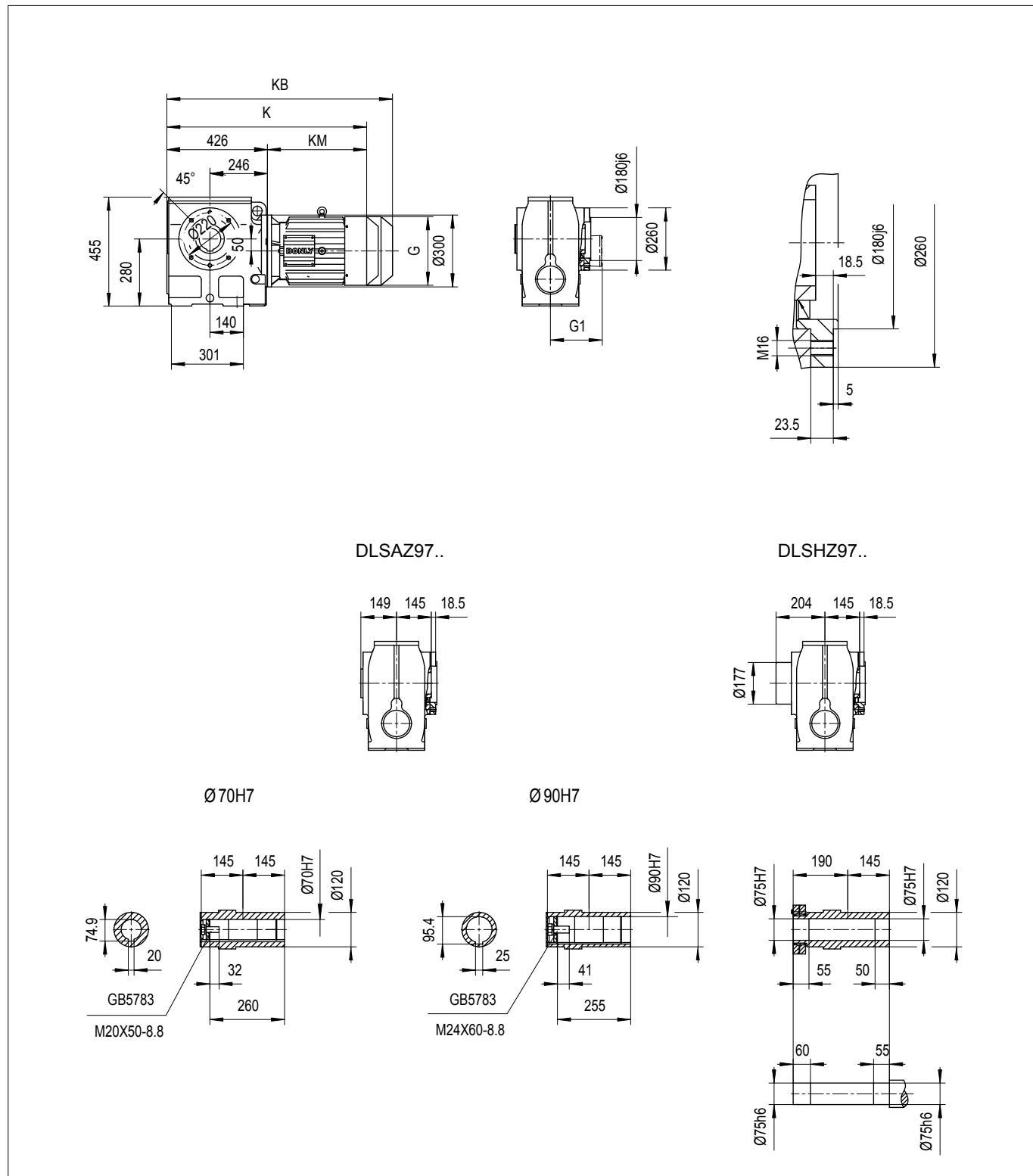
Note: KB is the length dimension with brake

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors



| | 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。

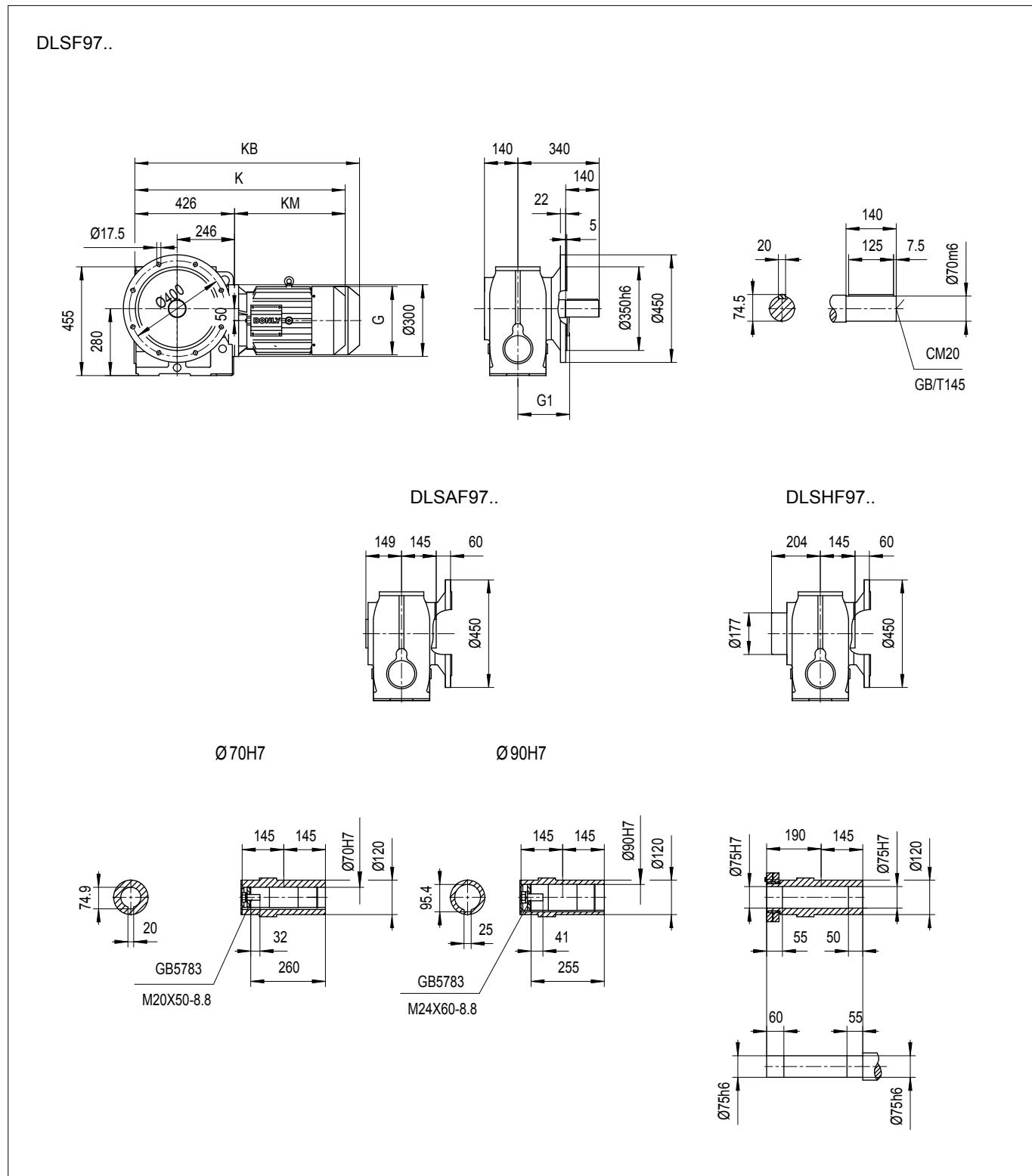
Note: KB is the length dimension with brake

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.2 DLS..DE3.. 减速电机外形及安装尺寸图表

4.2 Dimensions of DLS..DE3..gatemotors



| | 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

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.3 DLS..S.. 双轴型减速机技术参数表

4.3 Selection tables of DLS..S..garmotors (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 | 8.6 | 92 | 0.16 | 3000 | 745 | DL S37 | 8.8 |
| 149.47 | 9.4 | 92 | 0.17 | 3000 | 745 | DL SF37 | 10 |
| 127.41 | 11 | 91 | 0.19 | 3000 | 745 | DL SA37 | 9.4 |
| 110.00 | 13 | 88 | 0.21 | 3000 | 745 | DL SAF37 | 10 |
| 102.60 | 14 | 87 | 0.22 | 3000 | 745 | | |
| 89.82 | 16 | 86 | 0.25 | 3000 | 745 | | |
| 84.26 | 17 | 85 | 0.25 | 3000 | 745 | DL S37 | 8.8 |
| 74.48 | 19 | 84 | 0.28 | 3000 | 740 | DL SF37 | 10 |
| 66.15 | 21 | 83 | 0.31 | 3000 | 740 | DL SA37 | 9.4 |
| 57.86 | 24 | 82 | 0.28 | 3000 | 580 | DL SAF37 | 10 |
| 55.42 | 25 | 81 | 0.35 | 3000 | 1830 | DL S37 | 9.9 |
| | | | | | | DL SF37 | 11 |
| | | | | | | DL SA37 | 11 |
| | | | | | | DL SAF37 | 11 |
| 53.10 | 26 | 80 | 0.30 | 3000 | 575 | DL S37 | 8.8 |
| 45.26 | 31 | 81 | 0.35 | 3000 | 560 | DL SF37 | 10 |
| 39.08 | 36 | 80 | 0.39 | 3000 | 560 | DL SA37 | 9.4 |
| 36.45 | 38 | 78 | 0.41 | 3000 | 555 | DL SAF37 | 10 |
| 31.91 | 44 | 76 | 0.46 | 2870 | 555 | | |
| 29.93 | 47 | 75 | 0.48 | 2800 | 550 | | |
| 26.46 | 53 | 74 | 0.53 | 2660 | 540 | | |
| 23.50 | 60 | 73 | 0.58 | 2530 | 530 | | |
| 20.57 | 68 | 52 | 0.44 | 2470 | 335 | | |
| 19.69 | 71 | 52 | 0.49 | 2380 | 1750 | DL S37 | 9.9 |
| | | | | | | DL SF37 | 11 |
| | | | | | | DL SA37 | 11 |
| | | | | | | DL SAF37 | 11 |
| 18.88 | 74 | 52 | 0.48 | 2380 | 320 | DL S37 | 8.8 |
| 16.09 | 87 | 50 | 0.54 | 2240 | 325 | DL SF37 | 10 |
| 13.89 | 101 | 49 | 0.61 | 2110 | 1510 | DL SA37 | 9.4 |
| 12.96 | 108 | 48 | 0.63 | 2060 | 1510 | DL SAF37 | 11 |
| 11.35 | 123 | 48 | 0.72 | 1940 | 1480 | | |
| 10.64 | 132 | 47 | 0.75 | 1900 | 1480 | | |
| 9.41 | 149 | 46 | 0.82 | 1810 | 1460 | | |
| 8.36 | 168 | 45 | 0.91 | 1730 | 1440 | | |
| 7.00 | 200 | 43 | 1.04 | 1630 | 1660 | | |

* 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..garmotors (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 | | |
| 58.43 | 24 | 165 | 0.65 | 5320 | 1780 | DL S47 DL SF47 DL SA47 DL SAF47 | S2 13 S2 17 S2 15 S2 17 |
| 48.84 | 29 | 155 | 0.60 | 4850 | 360 | DL S47 | S1 12 |
| 45.68 | 31 | 155 | 0.65 | 4710 | 350 | DL SF47 DL SA47 DL SAF47 | S1 16 S1 14 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 | DL S47 | S2 13 |
| 20.17 | 69 | 152 | 1.4 | 3370 | 1660 | DL SF47 | S2 17 |
| 18.19 | 77 | 110 | 1.0 | 3160 | 1560 | DL SA47 | S2 15 |
| 17.01 | 82 | 110 | 1.1 | 3060 | 1560 | DL SAF47 | S2 17 |
| 14.97 | 94 | 110 | 1.2 | 2850 | 1540 | | |
| 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

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.3 DLS..S.. 双轴型减速机技术参数表

4.3 Selection tables of DLS..S..garmotors (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 |
| 141.47 | 9.9 | 295 | 0.50 | 7130 | 455 | DL SF57 | S1 |
| 132.30 | 11 | 295 | 0.54 | 7130 | 450 | DL SA57 | S1 |
| 116.45 | 12 | 295 | 0.60 | 7130 | 430 | DL SAF57 | S1 |
| 97.44 | 14 | 295 | 0.70 | 7130 | 415 | | |
| 87.11 | 16 | 295 | 0.78 | 7130 | 400 | | |
| 75.25 | 19 | 295 | 0.88 | 7170 | 1590 | DL S57 | S2 |
| 70.56 | 20 | 295 | 0.94 | 7220 | 1590 | DL SF57 | S2 |
| 58.43 | 24 | 265 | 0.99 | 7370 | 1710 | DL SA57 | S2 |
| | | | | | | DL SAF57 | S2 |
| 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 |
| 20.17 | 69 | 168 | 1.5 | 5720 | 1530 | DL SF57 | S2 |
| 18.19 | 77 | 168 | 1.6 | 5500 | 1430 | DL SA57 | S2 |
| 17.01 | 82 | 168 | 1.7 | 5200 | 1360 | DL SAF57 | S2 |
| 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..garmotors (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* | 径向力 Overhung load FRe* | 规格 Size | 重量 Weight [kg] |
| 201.16 | 7.0 | 520 | 0.61 | 8680 | 1520 | DL S67 | S2 |
| 189.00 | 7.4 | 520 | 0.65 | 8680 | 1510 | DL SF67 | S2 |
| 168.00 | 8.3 | 520 | 0.73 | 8680 | 1510 | DL SA67 | S2 |
| 142.80 | 9.8 | 520 | 0.83 | 8680 | 1499 | DL SAF67 | S2 |
| 129.11 | 11 | 520 | 0.92 | 8680 | 1460 | | 34 |
| 112.00 | 13 | 520 | 1.03 | 8680 | 1450 | DL S67 | S2 |
| 105.84 | 13 | 520 | 1.09 | 8680 | 1670 | DL SF67 | S2 |
| 93.13 | 15 | 520 | 1.22 | 8680 | 1660 | DL SA67 | S2 |
| 84.00 | 17 | 520 | 1.33 | 8680 | 1650 | DL SAF67 | S2 |
| 73.04 | 19 | 480 | 1.42 | 9020 | 1640 | | 30 |
| 63.84 | 22 | 480 | 1.60 | 9020 | 1630 | | 34 |
| 58.00 | 24 | 480 | 1.52 | 8850 | 2630 | DL S67 | S3 |
| | | | | | | DL SF67 | S3 |
| | | | | | | DL SA67 | S3 |
| | | | | | | DL SAF67 | S3 |
| 49.30 | 28 | 480 | 1.8 | 8120 | 1400 | DL S67 | S2 |
| 44.57 | 31 | 480 | 1.9 | 8060 | 1400 | DL SF67 | S2 |
| 38.67 | 36 | 480 | 2.2 | 7690 | 1390 | DL SA67 | S2 |
| 36.54 | 38 | 480 | 2.3 | 7250 | 1380 | DL SAF67 | S2 |
| 32.15 | 44 | 480 | 2.6 | 7060 | 1350 | | 30 |
| 29.00 | 48 | 480 | 2.9 | 6540 | 1330 | | 34 |
| 25.21 | 56 | 480 | 3.4 | 6240 | 1130 | DL S67 | S3 |
| 22.04 | 64 | 340 | 2.7 | 5890 | 1090 | DL SF67 | S3 |
| 21.60 | 65 | 340 | 2.6 | 5760 | 2350 | DL SA67 | S3 |
| 18.36 | 76 | 340 | 3.1 | 5080 | 1060 | DL SAF67 | S2 |
| 16.60 | 84 | 340 | 3.4 | 4820 | 1030 | | 30 |
| 14.40 | 97 | 340 | 3.9 | 4510 | 1010 | | 34 |
| 13.61 | 103 | 340 | 4.1 | 4310 | 990 | DL S67 | S2 |
| 11.97 | 117 | 340 | 4.6 | 3660 | 1950 | DL SF67 | S3 |
| 10.80 | 130 | 340 | 5.1 | 3290 | 1920 | DL SA67 | S3 |
| 9.39 | 149 | 335 | 5.8 | 2860 | 1870 | DL SAF67 | S3 |
| 8.21 | 171 | 295 | 5.8 | 3220 | 1940 | | 32 |

* 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

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.3 DLS..S.. 双轴型减速机技术参数表

4.3 Selection tables of DLS..S..garmotors (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 | | |
| 102.86 | 14 | 1140 | 2.3 | 12800 | 1480 | DL S77 | S2 56 |
| 90.43 | 15 | 1100 | 2.5 | 13100 | 1480 | DL SF77 | S2 61 |
| 80.00 | 18 | 1100 | 2.8 | 12800 | 1470 | DL SA77 | S2 55 |
| 71.11 | 20 | 1100 | 3.1 | 11900 | 1100 | DL SAF77 | S2 61 |
| 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 | DL S77 | S3 57 |
| 26.67 | 53 | 1050 | 6.6 | 7010 | 1910 | DL SF77 | S3 63 |
| 23.70 | 59 | 705 | 5.0 | 5970 | 1690 | DL SA77 | S3 57 |
| 21.83 | 64 | 705 | 5.3 | 5390 | 1670 | DL SAF77 | S3 63 |
| 19.13 | 73 | 930 | 7.9 | 4550 | 1640 | | |
| 18.13 | 77 | 930 | 8.3 | 4130 | 1610 | | |
| 15.77 | 89 | 710 | 7.3 | 3320 | 1550 | | |
| 14.57 | 96 | 710 | 7.8 | 2710 | 1490 | | |
| 12.81 | 109 | 720 | 9.1 | 1800 | 1400 | | |
| 11.33 | 124 | 720 | 10.1 | 1130 | 3330 | DL S77 | S4 62 |
| 10.07 | 139 | 720 | 11.4 | 420 | 3250 | DL SF77 | S4 67 |
| 8.50 | 165 | 680 | 12.7 | 445 | 3240 | DL SA77 | S4 61 |
| | | | | | | 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..garmotors (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* | 径向力 Overhung load FRe* | 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.

技术参数及外形安装尺寸图表

Selection Tables And Dimensions

4.3 DLS..S.. 双轴型减速机技术参数表

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

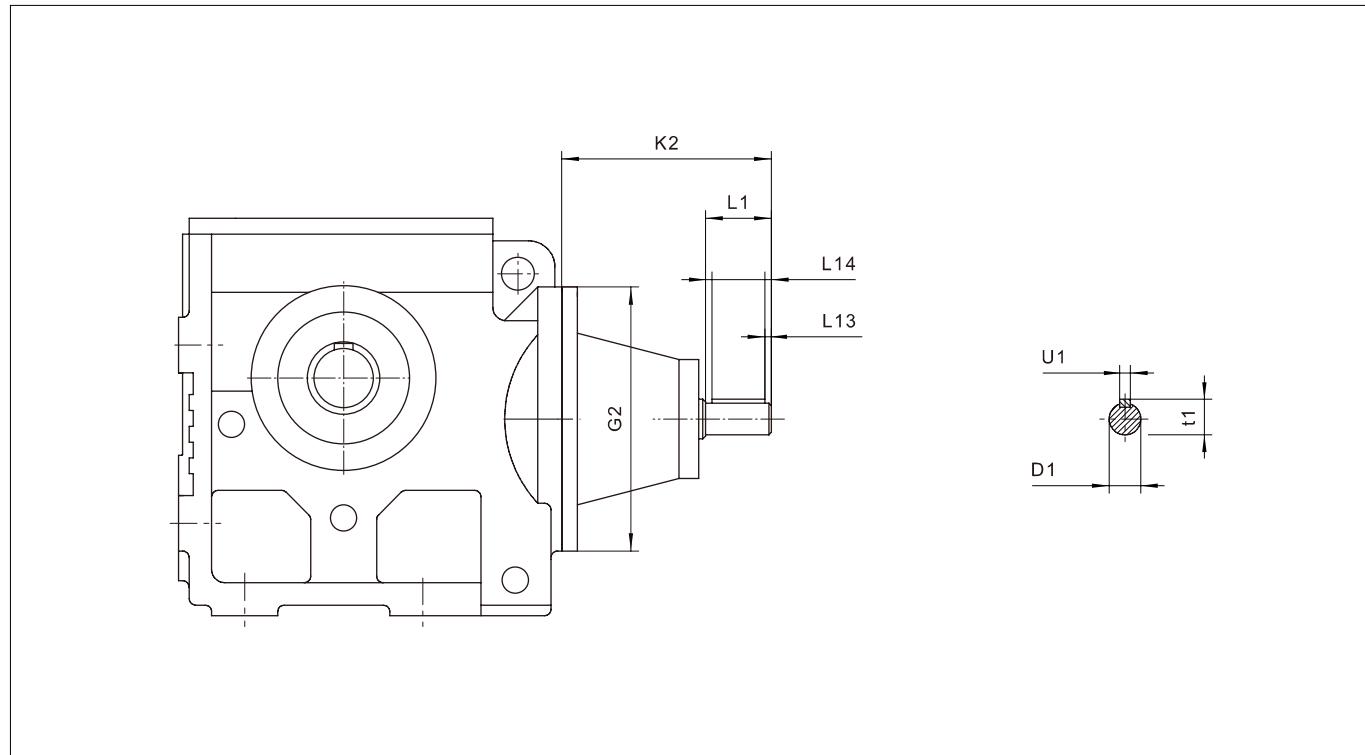
| DLS97S.., ne=1450 1/min | | | | | | | |
|-------------------------|------------------------------|----------------------------|---------------------------|-------------------------------------|-------------------------------------|--|--------------------------------------|
| 减速比 Ratio i | 转速 Speed 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 | 5.3 | 4000 | 3.1 | 33200 | 2120 | | |
| 235.00 | 6.0 | 4000 | 3.4 | 33200 | 2110 | | |
| 200.00 | 7.0 | 4000 | 4.0 | 33200 | 2090 | | |
| 184.76 | 7.6 | 3920 | 4.2 | 33400 | 2090 | | |
| 165.22 | 8.5 | 3840 | 4.5 | 33500 | 2090 | DL S97 | S3 161 |
| 148.80 | 9.4 | 3730 | 4.9 | 33700 | 2090 | DL SF97 | S3 181 |
| 134.81 | 10 | 3650 | 5.2 | 33900 | 2090 | DL SA97 | S3 158 |
| 118.46 | 12 | 3510 | 5.7 | 34100 | 2090 | DL SAF97 | S3 181 |
| 107.14 | 13 | 3440 | 6.2 | 34300 | 2080 | | |
| 92.80 | 15 | 3240 | 6.6 | 34600 | 2070 | | |
| 78.26 | 18 | 3230 | 7.9 | 34600 | 1330 | | |
| 72.46 | 19 | 3300 | 7.6 | 34800 | 2070 | | |
| 67.27 | 21 | 2900 | 8.1 | 35200 | 3100 | | |
| 61.67 | 23 | 3300 | 8.9 | 34500 | 3280 | | |
| 56.97 | 25 | 3300 | 9.6 | 34500 | 3230 | DL S97 | S4 166 |
| 50.94 | 27 | 3300 | 10.7 | 34500 | 3190 | DL SF97 | S4 186 |
| 45.88 | 31 | 3300 | 11.8 | 34100 | 3150 | DL SA97 | S4 164 |
| 41.57 | 34 | 3300 | 13.1 | 32800 | 3110 | DL SAF97 | S4 186 |
| 36.53 | 38 | 3300 | 14.9 | 31300 | 3060 | | |
| 33.04 | 42 | 3200 | 15.8 | 30400 | 3050 | | |
| 28.61 | 49 | 3050 | 17.4 | 29000 | 6240 | DL S97 DL SF97 DL SA97 DL SAF97 | S5 180 S5 200 S5 177 S5 200 |
| 24.13 | 58 | 2650 | 17.9 | 28000 | 6240 | DL S97 DL SF97 DL SA97 DL SAF97 | S4 166 S4 186 S4 164 S4 186 |
| 21.70 | 65 | 2600 | 18.9 | 24900 | 5490 | | |
| 20.74 | 68 | 2600 | 19.8 | 23700 | 5430 | | |
| 19.66 | 71 | 2600 | 21 | 22700 | 5360 | | |
| 17.28 | 81 | 2570 | 23 | 21100 | 5320 | DL S97 | S5 180 |
| 15.63 | 90 | 2470 | 25 | 20800 | 5330 | DL SF97 | S5 200 |
| 13.53 | 103 | 2330 | 27 | 20100 | 5320 | DL SA97 | S5 177 |
| 11.41 | 123 | 2210 | 31 | 19500 | 5330 | DL SAF97 | S5 200 |
| 9.81 | 143 | 2040 | 32 | 18800 | 5320 | | |
| 8.51 | 165 | 1770 | 32 | 18800 | 5500 | | |

* 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..gatemotors



| 型号 Type | S | K2 | G2 | D1 | L1 | L14 | L13 | U1 | T1 |
|------------|----|-----|-----|----|-----|-----|-----|----|------|
| DLS..37 | 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.

宁波东力传动设备有限公司

NINGBO DONLY TRANSMISSION EQUIPMENT CO.,LTD.

地址：宁波市江北区银海路 1 号

Add: No.1 Yinhai Road, Jiangbei, Ningbo

电话 Tel: +86-574-8839 8888

传真 Fax: +86-574-8839 8999

服务热线 C.S.HL: 400-168-6666

邮编 P.C.: 315033

Http: //www.donly.com.cn

