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杰牌传动始创于1988年
坚持100年做好一台减速机
匠心打造齿轮行业百年企业
JIE was established in 1988
Focus on one gear reducer for100years
To create the century enterprise with craftsman spirit in the gear industry

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JIEC・08A・2017A-5000

电动机选项手册

因专业　而杰出

Excellence From Expertise

JD 电动机
JD Motors

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在专业化的路上走向胜利

On road to specialization strive together

陈 杰 词
Lyric: Chen Jie
钱建隆 曲
Music:Qian Jian Long

1 =ᵇE 4/4
稍快、朝气蓬勃地
allegretto, full of youth

‖:(111 111 111 1 | 111 111 111 1 | 5̣1 1 2 3 4 5 6 | 5 5̣5̣5̣ 1 0) |

5̣ 1 1 2 3 1 0 | 5·4 3 2 3 1 0 | i·7 7 6 6 5 | 6 5 3 4 5 – |

要做 就做 一流 | 是 我 永恒 追求 | 产业 联 盟 | 我 们 一起 走
To be the star | is my eternal pursue | industrial union | we walk together
产业 事业 家业 | 共 同 富裕 和谐 | 目标 在 前 | 我 们 一起 走
Estate career family | harmonious with wealth | for the goal ahead | we walk together

5̣ 1 1 2 3 1 0 | 5·4 3 2 3 1 0 | 1̄ ī 7̄ 6̄ | 5·4 3 4 2 1 |

聚 万物 之灵 | 造 天地 之杰 | 产 业 发 展 | 我 们 一起 走 啦
Nimbus from all beings | making it outstanding | industry developing | we walk together La
团结 创新 专业 | 推动 联盟 发展 | 胜 利 在 前 | 我 们 一起 走 啦
Joint Innovation Expertise | enhancing the union | for the victory ahead | we walk together La

i – i i 7 i | 5 – – 1 | 6 – 6 6 7 i 3 – – – |

啦 啦 啦 啦 | 啦 啦 | 啦 啦 啦 啦
La La La La La | La La | La LaLa La

（节奏强烈、有冲击力）
（hot, powerful）

1 – 4 5 | 6·7 i 6 · 5 | 6 6 5·4 3 5 | 5 – – – |

在 专 业 化的 路 上 我 们 一 起 努 力
On road to specialization we strive together

1 – 4 5 | 6·7 i 6 · 5 | 4 3 2·2 1 2 | 2 – – – |

在 专 业 化的 路 上 我 们 走 向 胜 利
On road to specialization we go to victory

1 – 4 5 | 6·7 i 6 · 5 | 6 6 5·4 3 6 | 6 – – – |

在 专 业 化的 路 上 我 们 一 起 努 力
On road to specialization we strive together

1 – 4 5 | 6·7 i 6 · 5 | 4 3 2·2 3 1 | 1 – – – :‖
1

在 专 业 化的 路 上 我 们 走 向 胜 利
On road to specialization we go to victory

— 2

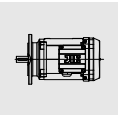
4 3 2·2 3 1 | 1 0 0 i | i – 0 0 | 0 0 0 0 ‖

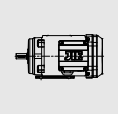
我 们 走 向 胜 利 | 胜 利
we go to victory | Victory

杰牌工业园
JIE industrial park

JIE 杰牌传动
ASIADRIVE JIE ASIA DRIVE
因 专 业 而 杰 出

亚洲传动专家
Asia Drive Expert





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1. 产品概述
Overview

1.1 JD 系列交流电机
JD series AC motor

噪声
Noise

所有JIE电机噪声指标都在IEC/EN60034-9标准规定的最大许可噪声指标之内。
All JIE motor noise indicators are within the maximum allowable noise indicators of the standard IEC/EN60034-9

油漆涂装
Painting

全新涂层选用符合国家环保要求的绿色油漆产品。油漆中不含VOC、TDI、苯/甲苯、二甲苯、重金属等有毒有害物质。且具有超强的附着力、耐候性、耐腐蚀性。能适用普通室外中等腐蚀环境和各类室内工况。并有增强型涂层体系适应重腐蚀环境。

New painting meets the national environmental requirements of green paint products. This paint does not contain VOC, benzene, toluene, xylene, heavy metals and other toxic and harmful substances. And it has excellent adhesion, weather resistance, corrosion resistance. It can be used in ordinary outdoor environment and any indoor environment. And this enhanced coating system is designed to adapt to heavy corrosion environment.

通风和检查
Ventilation

电机/制动电机安装是在轴向和径向应留有足够的空间，便于空气流通及制动器的维护。请参考相关电机尺寸表中的注释。

The installation in the axial and radial should have enough spaces to facilitate the flow of air and maintenance. Please refer to the remarks in the motor dimensions.

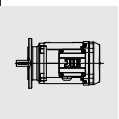
制动电机
Brake motor

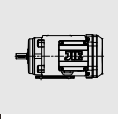
根据要求JIE电机可安装集成式机械制动器。JIE制动器是带直流线圈的励磁盘式制动器，用直流线圈的电磁力使制动器释放而弹簧作用力产生制动作用。设计原理是断电制动符合基本的安全要求。JIE制动器可安装手动释放装置进行机械释放，可安装一个释放手柄或安装一个释放螺钉。释放手柄会自动复位而释放螺钉可将制动器保持在释放状态。制动器由自动控制系统控制该系统，既可装在电机接线盒内也可装在开关柜内。请参考“JIE制动器及其附件”手册。

According to the requirements of JIE motor integrate mechanical brake. The JIE brake is a kind of excitation brake with DC coil, and the braking force is generated by the electromagnetic force of the DC coil. The JIE brake is fitted with a manual release device for mechanical release,which is fitted with a release handle or installed a release screw. The release handle resets the release screw automatically to hold the brake in release. The automatic control system can control the system, and can be installed in the motor terminal box or in the switch cabinet. Please refer to the JIE brake and its accessories manual.

变频控制
Frequency Control

JDS/JDE/JDP电机可以通过变频器控制。
JDS / JDE / JDP motor can be controlled by inverter.





1.2 电机型号描述
Model Description

J D E 90 L 4 /IEC /B3 /0° /N /BE/TF/TH/U/RS/Z/C/V/EV/STH/RI

（位置不分前后）（no sequence）

- /N：电缆接口位置在N位置 Cable interface position “N”
- /0°：接线盒位置在0° 位置 Terminal box position at “0°”
- /B3：安装方式：IMB3、IMB5、IMB14等 Installation method:IMB3 IMB5 IMB14 etc.
- /IEC：电机类型: IEC:标准电机 Mounting positions
- 4：极数: 2、4、6 等 Poles:2、4、6 etc.
- L：铁芯长短 Core length
- 90：机座号 Frame sizes
- E：能效等级 Energy efficiency index
  - S:3 级能效 S:level 3
  - E:2 级能效 S:level 2
  - P:1级能效 S:level 1
- D：D:杰牌电机代码 JIE Motor code
- J：杰牌代码 JIE code

1.3 电机型号说明
Model Description

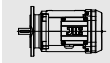
交流电机系列
AC motor series

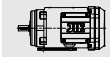
型号/Type	描述/Description
JDS..	IEC60034-IE2,3级能效(Energy efficiency level 3)GB18613-2012
JDE..	IEC60034-IE3,2级能效(Energy efficiency level 2)GB18613-2012
JDP..	IEC60034-IE4,1级能效(Energy efficiency level 1)GB18613-2012
63-225	63/71/80/90/100/112/132/160/180/200/225
S-L	铁芯长度=S、M、L/Core length==S、M、L
2,4,6,	极数/The number of poles

安装形式
Mounting arrangement

型号/Type	描述/Description
/B3	IEC地脚安装电机（功率等级设计不符合 IEC标准时需描述中心高） IEC ground mounting motor (when the power level design does’ t meet the IEC standard should describe the height of the center)
/B5	IEC法兰安装电机光孔连接 IEC flange mounting motor light hole connection
/B14	IEC法兰安装电机螺纹孔连接 IEC flange mounting motor threaded hole connection
/B35	IEC法兰（光孔连接）地脚安装（功率等级设计不符合IEC标准时需描述中心高） IEC flange (light hole connection) to the foot installation(when the power level design does’ t meet the IEC standard should describe the height of the center)

注：具体尺寸请参照电机外表尺寸表
Note: Please refer to the motor size table for specific dimensions





制动器
Brake

型号/Type	描述/Description
/BE..	制动器/Brake
/HR	手柄释放/Handle release
/HF	螺丝释放/Screw release

温度传感器/温度检测
Temperature sensor / temperature detection

型号/Type	描述/Description
/TF	温度传感器（PTC热敏电阻保护） /Temperature sensor (PTC thermistor protection)
/TH	恒温器保护装置（双金属片开关） /Thermostat protection device (bimetal switch)
/PT	一个/三个PT100传感器 /One / three PT100 sensors

编码器
Encoder

型号/Type	描述/Description
ES(空心轴） ES(Hollow shaft)	RS422（带反相信号）5VDC供电 /RS422(With reverse signal) 5VDCpowered by RS422（带反相信号）10-30VDC供电 / RS422(With reverse signal) 10-30VDC powered by
EV(实心轴） EV(Solid shaft)	推挽HTL（带反相信号）10-30VDC供电 /HTL(With reverse signal) 10-30VDC powered by 推挽HTL（无反相信号）10-30VDC供电 /HTL(No reverse signal) 10-30VDC powered by NPN集电极开路输出 10-30VDC供电

注：客户若有其他需求，请与JIE公司联系
Note: If you have any other requirements, please contact JIE

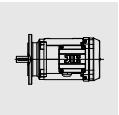
冷却
Cooling

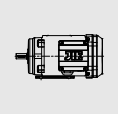
型号/Type	描述/Description
/V	强制冷风扇/Forced cooling fan
/U	无通风设计（无风扇）/Non-ventilated(No fan)

注：JD系列电机无其他冷却方式要求时,冷却方式为自扇冷式(IC411).
Note:If there is no special cooling requirement, JD series motor's type of cooling is fan-cooled(IC411)

其他选项
Other options

型号/Type	描述/Description
/RI	加强绝缘/Reinforced insulation
/STH	电加热带/Electric Heating
/DH	冷凝排水孔/Condensation drain holes
/RS	逆止器/Backstop
/2WE	电机（制动电机）后出轴/ Rear shaft of the motor
/C	防雨罩/Protection cowl
/Z	高惯量飞轮/Additional flywheel





安装方式说明
Mounting arrangement instructions

JD系列电动机的结构及安装型式IM B3、IM B6、IM B7、IM B8、IM B14、IM B35、IM B34、IM B65、IM B75、IM B85、IM V1、IM V15、IM V5、IM V6和IM V36的规定制造。
The structures and mounting types of JD series motor are made in accordance with regulations IM B3、IM B6、IM B7、IM B8、IM B14、IM B35、IM B34、IM B65、IM B75、IM B85、IM V1、IM V15、IM V5、IM V6 and M V36 .

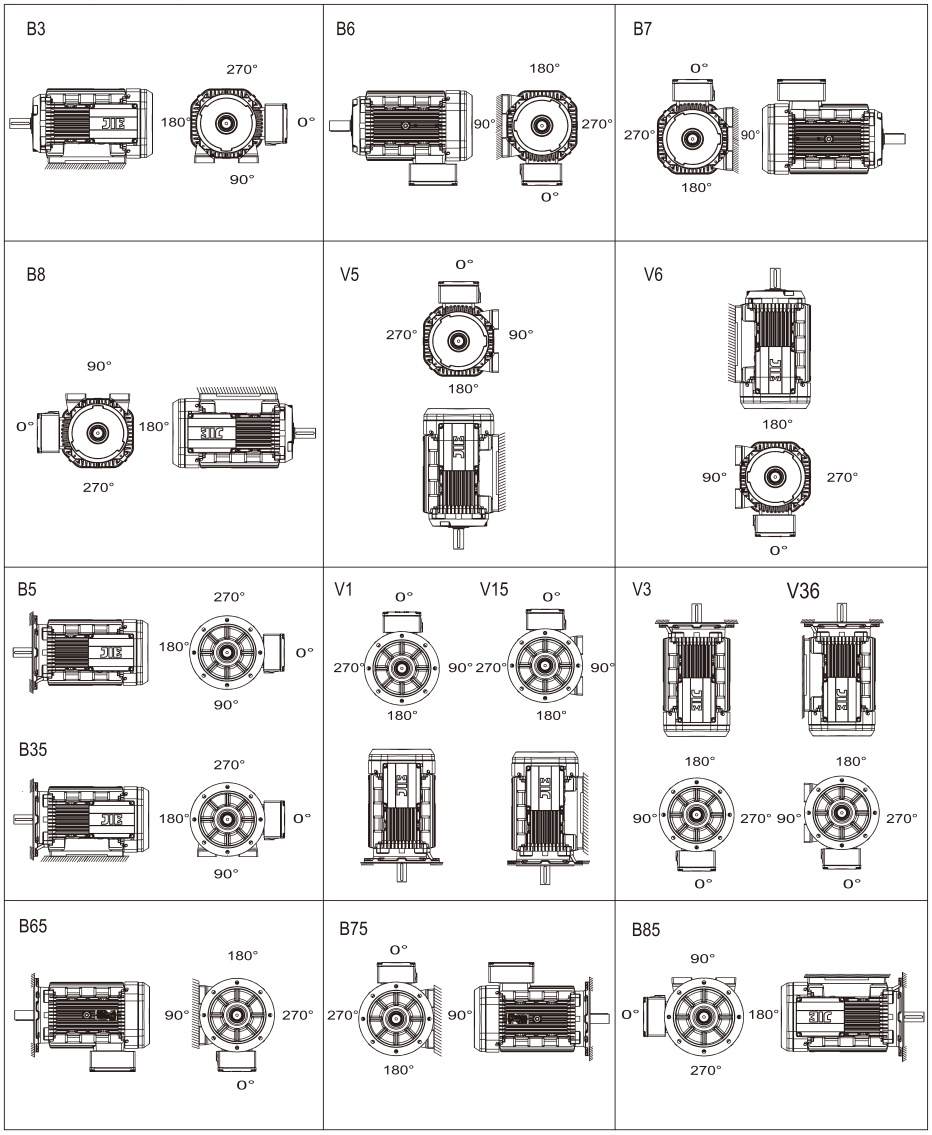


图1 / Chart 1

JD 系列电动机接线盒及电缆接口位置，电动机地脚安装结构没有90° 位置。用户下订单时，请说明电机接线盒及电缆接口位置.
JD series motor terminal box and cable interface position, the motor feet installation structure doesn't have the 90 ° position. When the user makes an order, please specify the location of motor terminal box and cable interface .

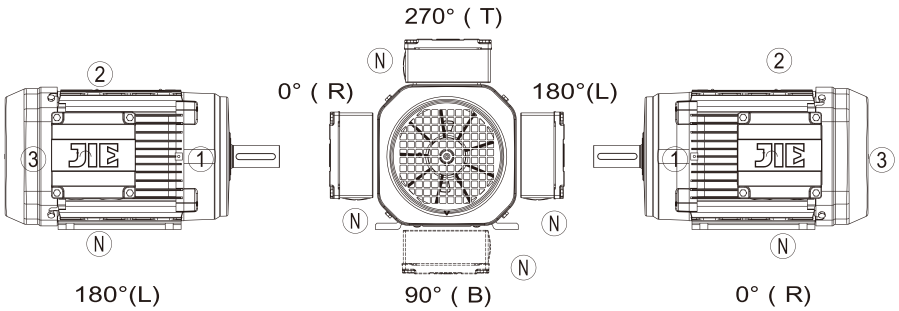


图2 / Chart 2

2. 电机结构图
Motor structure

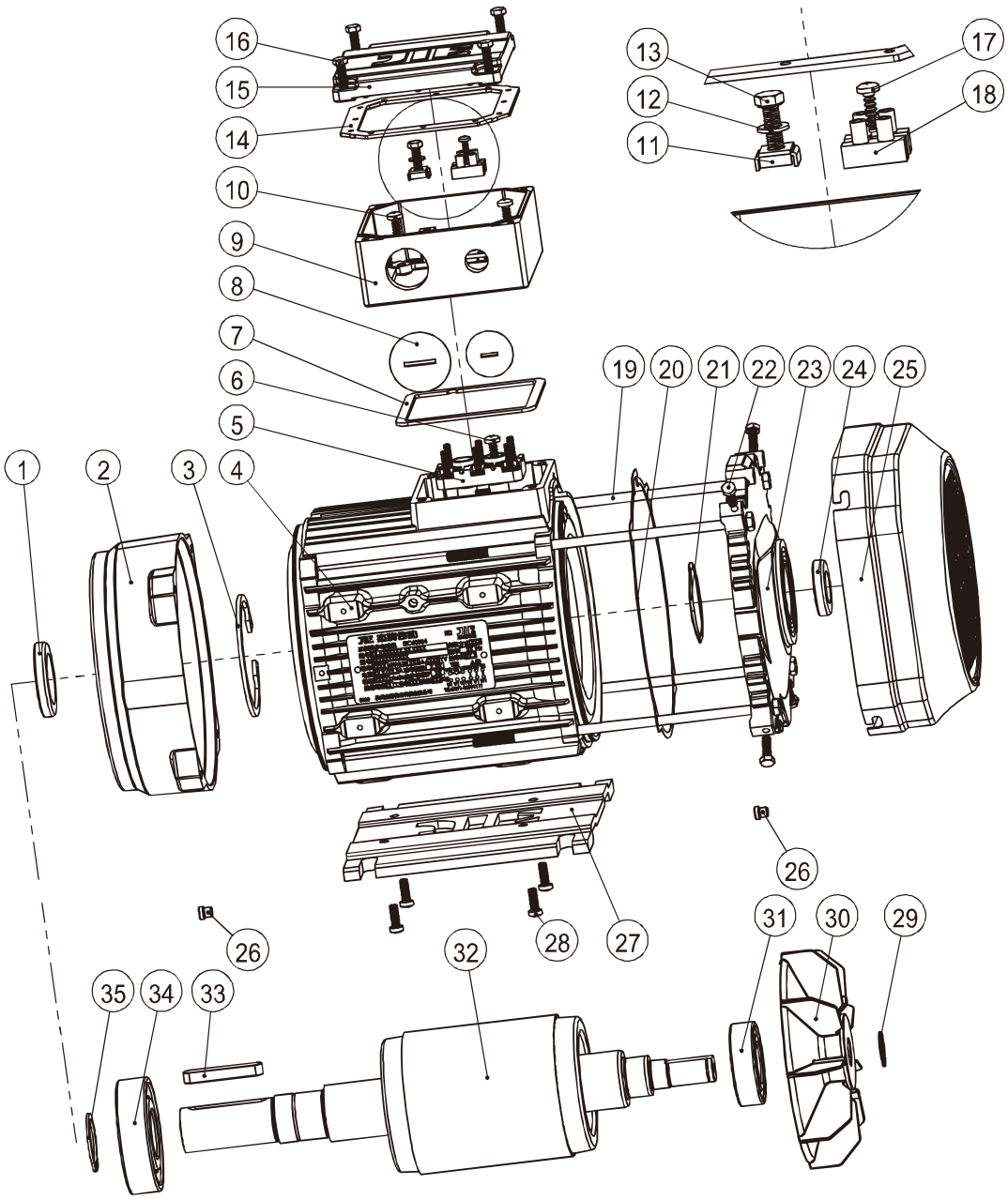


图3 / Chart 3

1.1.油封 Oil seal
2.A端盖/A endshield
3.孔用挡圈/Circlips for holes
4.定子/Stator
5.接线板/Terminal board
6.螺钉/Screw
7.密封胶垫/Gasket
8.出线孔盖/Hole cover of outley
9.接线盒座/Terminal box base
10.螺钉/Screw
11.接地牌/Ground card
12.垫圈/Washer
13.螺栓/Bolt
14.密封胶垫/Gasket
15.螺栓/Bolt
16.接线盒盖/Terminal box lid
17.螺钉/Screw
18.接线排/Wiring row
19.螺栓/Bolt
20.密封垫/ Gasket
21.波形弹簧/Wave washer
22.螺栓/Bolt
23.后端盖/Rear endshield
24.油封 Oil seal
25.风罩/Fan cowl
26.密封塞/Sealing plug
27.地脚/Feet
28.螺钉/Screw
29.轴用挡圈/Shaft with a collar
30.风扇/Fan
31.轴承/Bearing
32.转子/Rotor
33.键/ Key
34.轴承/Bearing
35.轴用挡圈/Shaft with a collar

3. 电气参数
Electrical parameters

JDS 系列,3 级能效（GB18613-2012）/ n=3000rpm-S1

JDS series, level 3 energy efficiency（GB18613-2012）/n=3000rpm-S1

表1 /Table 1

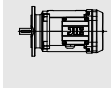
电机 型号 Type	功率 Power [kw]	转矩 Torque [N.m]	转速 Rated speed [r/min]	电流 Rated current [A]	能效等级 energy efficiency index GB18613-2012	功率 因数 power factor cos ϕ	效率 efficiency [%]	堵转电流 额定电流 Ist/In	堵转转矩 额定转矩 Tsn/Tn	最大转矩 额定转矩 Tmax/Tn	质量 m [kg]	转动惯量 Jmot [10^{-4} kgm^2]
JDS63S2	0.18	0.61	2800	0.47	–	0.88	65.6	2.9	1.8	1.7	6.5	3.1
JDS63M2	0.25	0.85	2800	0.68	–	0.86	65	2.8	1.8	1.7	6.8	3.2
JDS63L2	0.37	1.26	2800	0.95	–	0.87	68	3.5	1.8	1.8	7.3	4.2
JDS71M2	0.55	1.87	2810	1.45	–	0.79	72.9	4.9	2.9	2.1	9.1	7.1
JDS80S2	0.75	2.56	2800	1.8	3	0.84	77.4	4.6	2.5	2.3	11.5	14.9
JDS80M2	1.1	3.7	2840	2.4	3	0.88	79.6	6	2.7	2.5	14.3	21.5
JDS90M2	1.5	5.1	2830	3.1	3	0.89	81.3	5.9	2.7	2.6	18.4	35.5
JDS90L2	2.2	7.4	2820	4.5	3	0.91	83.2	5.8	2.9	2.5	21.5	43.5
JDS100M2	3	10.1	2840	5.9	3	0.89	84.6	6.4	3.1	2.8	26	56
JDS112M2	4	13.2	2900	8.0	3	0.91	85.8	6.3	2.3	2.1	41.5	113
JDS132S2	5.5	18.2	2890	10.6	3	0.89	87.0	6.5	2.3	2.1	44	146
JDS132M2	7.5	24.5	2910	14.2	3	0.89	88.1	7.3	2.5	2.3	60	193
JDS160S2	9.2	30.5	2900	17.7	–	0.89	88.8	6.9	2.5	2.5	80	370
JDS160M2	11	35.8	2930	21	3	0.9	89.4	7.5	2.2	2.3	106	450
JDS160L2	15	48.9	2930	28.4	3	0.9	90.3	7.5	2.2	2.3	114	570
JDS160ML2	18.5	60.3	2930	34.3	3	0.9	90.9	7.5	2.2	2.3	131	640
JDS180M2	22	71.5	2940	40.7	3	0.9	91.3	7.5	2.2	2.3	168	970
JDS200LS2	30	97.1	2950	55.5	3	0.9	92.0	7.5	2.0	2.3	219	2350
JDS200L2	37	119.8	2950	67.9	3	0.9	92.5	7.5	2.0	2.3	236	2380
JDS225M2	45	144.9	2965	82.3	3	0.9	92.9	7.5	2.0	2.3	288	3450

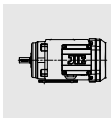
JDE 系列,2 级能效（GB18613-2012）/ n=3000rpm-S1

JDE series, level 2 energy efficiency

表2 /Table 2

电机 型号 Type	功率 Power [kw]	转矩 Torque [N.m]	转速 Rated speed [r/min]	电流 Rated current [A]	能效等级 energy efficiency index GB18613-2012	功率 因数 power factor cos ϕ	效率 efficiency [%]	堵转电流 额定电流 Ist/In	堵转转矩 额定转矩 Tsn/Tn	最大转矩 额定转矩 Tmax/Tn	质量 m [kg]	转动惯量 Jmot [10^{-4} kgm^2]
JDE80M2	0.75	2.5	2890	1.6	2	0.89	80.7	7.9	3.4	3	14.3	21.5
JDE90M2	1.1	3.65	2870	2.3	2	0.89	82.7	7.2	3.2	3	18.4	35.5
JDE90L2	1.5	5.1	2830	3.0	2	0.89	84.2	5.9	2.7	2.6	21.5	43.5
JDE100M2	2.2	7.3	2880	4.3	2	0.91	85.9	8.2	3.8	3.3	26	56
JDE100L2	3	10.1	2850	5.6	2	0.93	87.1	7.2	3.5	3.1	29	68
JDE112M2	4	13.2	2900	7.6	2	0.91	88.1	6.3	2.3	2.1	41.5	113
JDE132S2	5.5	18.2	2890	10.3	2	0.91	89.2	6.5	2.5	2.3	46.5	146
JDE132M2	7.5	24.5	2910	14.5	2	0.87	90.1	7.3	2.2	1.9	60	193





电机型号 Type	功率 Power [kw]	转矩 Torque [N.m]	转速 Rated speed [r/min]	电流 Rated current [A]	能效等级 energy efficiency index GB18613-2012	功率因数 power factor cos ϕ	效率 efficiency [%]	堵转电流额定电流 Ist/In	堵转转矩额定转矩 Tsn/Tn	最大转矩额定转矩 Tmax/Tn	质量 m [kg]	转动惯量 Jmot [10^{-4} kgm^2]
JDE160M2	11	35.7	2945	20.6	2	0.89	91.2	8.1	2.0	2.3	113	450
JDE160L2	15	48.6	2945	27.9	2	0.89	91.9	8.1	2.0	2.3	123	570
JDE160ML2	18.5	60.1	2940	34.2	2	0.89	92.4	8.2	2.0	2.3	142	640
JDE180M2	22	71.1	2955	40.5	2	0.89	92.7	8.2	2.0	2.3	182	970
JDE200LS2	30	96.8	2960	54.9	2	0.89	93.3	7.6	2.0	2.3	246	2350
JDE200L2	37	119.4	2960	67.4	2	0.89	93.7	7.6	2.0	2.3	265	2380
JDE225M2	45	144.9	2970	80.8	2	0.9	94.0	7.6	2.0	2.3	323	3450

JDP 系列,1 级能效（GB18613-2012）/ n=3000rpm-S1

JDP series, level 1 energy efficiency

表3 /Table 3

电机型号 Type	功率 Power [kw]	转矩 Torque [N.m]	转速 Rated speed [r/min]	电流 Rated current [A]	能效等级 energy efficiency index GB18613-2012	功率因数 power factor cos ϕ	效率 efficiency [%]	堵转电流额定电流 Ist/In	堵转转矩额定转矩 Tsn/Tn	最大转矩额定转矩 Tmax/Tn	质量 m [kg]	转动惯量 Jmot [10^{-4} kgm^2]
JDP80M2	0.75	2.5	2890	1.5	1	0.89	84.9	7.9	3.4	3.0	14.3	21.5
JDP90M2	1.1	3.65	2870	2.2	1	0.89	86.7	7.2	3.2	3.0	18.4	35.5
JDP90L2	1.5	4.95	2890	2.8	1	0.93	87.5	8.7	3.8	3.3	26	56
JDP100M2	2.2	7.3	2880	4.1	1	0.91	89.1	8.2	3.8	3.3	26	56
JDP112M2	3	9.8	2920	5.7	1	0.89	89.7	7.4	2.6	2.4	41.5	113
JDP132S2	4	13.1	2910	7.4	1	0.91	90.3	7.3	2.5	2.2	46.5	146
JDP132M2	5.5	17.9	2935	10.1	1	0.9	91.5	8.7	2.9	2.5	60	193
JDP160M2	7.5	24.5	2930	13.6	1	0.91	92.1	7.3	2.2	2.0	106	450

JDS 系列,3 级能效（GB18613-2012）/ n=1500rpm-S1

JDS series, level 3 energy efficiency

表4 /Table 4

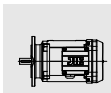
电机型号 Type	功率 Power [kw]	转矩 Torque [N.m]	转速 Rated speed [r/min]	电流 Rated current [A]	能效等级 energy efficiency index GB18613-2012	功率因数 power factor cos ϕ	效率 efficiency [%]	堵转电流额定电流 Ist/In	堵转转矩额定转矩 Tsn/Tn	最大转矩额定转矩 Tmax/Tn	质量 m [kg]	转动惯量 Jmot [10^{-4} kgm^2]
JDS63S4	0.12	0.83	1380	0.44	–	0.69	–	3.3	2.4	2.2	6.2	2.9
JDS63M4	0.18	1.3	1320	0.61	–	0.78	–	2.9	1.8	1.7	6.5	3.2
JDS63L4	0.25	1.8	1300	0.79	–	0.81	65	2.8	1.8	1.7	7.5	4.1
JDS71S4	0.37	2.6	1380	1.2	–	0.7	66.6	3.5	1.8	1.8	7.8	4.9
JDS71M4	0.55	3.8	1380	1.6	–	0.72	71	3.6	2.1	2.1	9.1	7.1
JDS80S4	0.75	5.1	1400	1.8	3	0.81	79.6	4.3	1.9	1.9	11.5	14.9
JDS80M4	1.1	7.4	1410	2.4	3	0.84	81.4	5.1	2.2	2.2	14.2	21.5
JDS90M4	1.5	10.3	1395	3.4	3	0.82	82.8	5	2.3	2.3	18.4	35.5
JDS90L4	2.2	15	1400	4.9	3	0.81	84.3	5.1	2.5	2.5	21.5	43.5
JDS100M4	3	20.5	1400	6.5	3	0.82	85.5	5.3	2.8	2.8	26	56

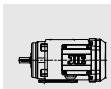
电机 型号 Type	功率 Power [kw]	转矩 Torque [N.m]	转速 Rated speed [r/min]	电流 Rated current [A]	能效等级 energy efficiency index GB18613-2012	功率 因数 power factor cos ϕ	效率 efficiency [%]	堵转电流 额定电流 Ist/In	堵转转矩 额定转矩 Tsn/Tn	最大转矩 额定转矩 Tmax/Tn	质量 m [kg]	转动惯量 Jmot [10^{-4} kgm^2]
JDS112M4	4	26.5	1435	8.4	3	0.84	86.6	6	2	2	41.5	146
JDS132S4	5.5	36.5	1445	11.6	3	0.82	87.7	6.7	2.4	2.4	44	190
JDS132M4	7.5	49.5	1445	15.1	3	0.85	88.7	6.6	2.4	2.4	60	255
JDS160S4	9.2	60	1460	19.8	–	0.79	89.2	6.4	2.5	2.5	80	370
JDS160M4	11	72	1460	23.0	3	0.81	89.8	6.8	2.7	2.7	92	450
JDS180S4	15	98	1460	30.3	3	0.83	90.6	6.2	2.3	2.3	122	900
JDS180M4	18.5	121	1470	35.8	3	0.86	91.2	6.5	2.2	2.2	141	1110
JDS180L4	22	143	1465	43.4	3	0.84	91.6	6.9	2.4	2.4	152	1300
JDS200L4	30	194	1470	58.8	3	0.84	92.3	6.4	2.1	2.1	260	2360
JDS225S4	37	240	1475	74.0	3	0.82	92.7	7.1	2.4	2.4	295	2930
JDS225M4	45	290	1480	88.5	3	0.83	93.1	7.4	2.5	2.5	315	3430

JDE 系列,2 级能效（GB18613-2012）/ n=1500rpm-S1
JDE series, level 2 energy efficiency

表5 /Table 5

电机 型号 Type	功率 Power [kw]	转矩 Torque [N.m]	转速 Rated speed [r/min]	电流 Rated current [A]	能效等级 energy efficiency index GB18613-2012	功率 因数 power factor cos ϕ	效率 efficiency [%]	堵转电流 额定电流 Ist/In	堵转转矩 额定转矩 Tsn/Tn	最大转矩 额定转矩 Tmax/Tn	质量 m [kg]	转动惯量 Jmot [10^{-4} kgm^2]
JDE80M4	0.75	5	1435	1.75	2	0.79	82.5	6.2	2.8	2.1	14.3	21.5
JDE90M4	1.1	7.4	1420	2.5	2	0.79	84.1	5.9	2.8	2.3	18.4	35.5
JDE90L4	1.5	10	1430	3.5	2	0.77	85.3	6.6	3.2	2.8	21.5	43.5
JDE100M4	2.2	14.7	1425	4.8	2	0.8	86.7	6.4	3.3	2.7	26	56
JDE112M4	3	19.7	1455	6.3	2	0.83	87.7	7.3	2.4	2	41.5	146
JDE132S4	4	26	1460	8.4	2	0.82	88.6	8	2.7	2.4	46.5	190
JDE132M4	5.5	36	1455	11	2	0.85	89.6	7.7	2.6	1.9	60	255
JDE160S4	7.5	49	1465	15.4	2	0.82	90.4	6.5	2.4	1.8	80	370
JDE160M4	9.2	60	1470	19.2	–	0.8	90.8	7.7	2.9	2.2	89	450
JDE180S4	11	71	1470	22	2	0.83	91.4	7.2	2.6	2.2	122	900
JDE180M4	15	97	1470	29.1	2	0.85	92.1	7.1	2.4	2	138	1110
JDE180L4	18.5	120	1470	35.7	2	0.85	92.6	7.1	2.5	2.1	152	1300
JDE180LC4	22	142	1480	43.8	2	0.82	93.0	7.1	2.3	1.9	161	1680
JDE200L4	30	194	1475	59.4	2	0.82	93.6	6.3	2.1	1.9	260	2360
JDE225S4	37	240	1477	73	2	0.82	93.9	7	2.5	2	295	2930
JDE225M4	45	290	1478	87	2	0.83	94.2	7.3	2.5	2.1	315	3430





JDP 系列,1 级能效（GB18613-2012）/ n=1500rpm-S1
JDP series, level 1 energy efficiency

表6 /Table 6

电机 型号 Type	功率 Power [kw]	转矩 Torque [N.m]	转速 Rated speed [r/min]	电流 Rated current [A]	能效等级 energy efficiency index GB18613-2012	功率 因数 power factor cos ϕ	效率 efficiency [%]	堵转电流 额定电流 Ist/In	堵转转矩 额定转矩 Tsn/Tn	最大转矩 额定转矩 Tmax/Tn	质量 m [kg]	转动惯量 Jmot [10^{-4} kgm^2]
JDP90M4	0.75	4.95	1450	1.8	1	0.72	85.6	7.3	3.7	3.1	18.4	35.5
JDP90L4	1.1	7.3	1440	2.5	1	0.78	87.4	6.8	3.2	2.7	21.5	43.5
JDP100M4	1.5	9.9	1440	3.3	1	0.79	88.1	7.4	3.6	3.1	26	56
JDP100L4	2.2	14.6	1440	4.8	1	0.77	89.7	7.7	4.1	3.2	29	68
JDP112M4	3	19.7	1455	6.2	1	0.82	90.3	7.3	2.4	2	41.5	146
JDP132M4	4	26	1465	8.0	1	0.84	90.9	8.9	2.6	2	60	255
JDP160S4	5.5	35.5	1475	11.3	1	0.84	92.1	8.0	3	2.2	80	370
JDP160M4	7.5	48.5	1470	15.2	1	0.8	92.6	8.1	3.1	2.3	89	450
JDP180S4	9.2	60	1475	18.3	–	0.81	93.1	7.8	2.8	2.3	122	900
JDP180M4	11	71	1475	21.3	1	0.82	93.6	8.1	2.9	2.2	138	1110
JDP180L4	15	97	1475	28.9	1	0.84	94.0	7.7	2.7	2	152	1300
JDP200L4	18.5	119	1483	36	1	0.84	94.3	7.8	2.6	2.2	260	2360
JDP200L4	22	142	1482	43	1	0.83	94.7	7.9	2.7	2.3	260	2360
JDP225S4	30	194	1480	56	1	0.83	95.0	7.4	2.6	2.2	290	2930
JDP225M4	37	240	1482	69	1	0.85	95.3	8.4	2.9	2.6	315	3430

JDS 系列,3 级能效（GB18613-2012）/ n=1000rpm-S1
JDS series, level 3 energy efficiency

表7 /Table 7

电机 型号 Type	功率 Power [kw]	转矩 Torque [N.m]	转速 Rated speed [r/min]	电流 Rated current [A]	能效等级 energy efficiency index GB18613-2012	功率 因数 power factor cos ϕ	效率 efficiency [%]	堵转电流 额定电流 Ist/In	堵转转矩 额定转矩 Tsn/Tn	最大转矩 额定转矩 Tmax/Tn	质量 m [kg]	转动惯量 Jmot [10^{-4} kgm^2]
JDS63S6	0.09	0.96	895	0.43	–	0.64	50	2.2	1.8	2	6.3	2.8
JDS63M6	0.12	1.3	895	0.53	–	0.65	53	2.1	1.8	2	6.6	3.1
JDS63L6	0.18	1.9	905	0.7	–	0.7	56	2.2	1.6	2	7.2	4.1
JDS71S6	0.25	2.6	895	0.87	–	0.7	62.2	2.7	1.7	1.7	7.8	4.9
JDS71M6	0.37	3.9	905	1.2	–	0.71	66.6	3.1	1.9	1.9	9.1	7.1
JDS80S6	0.55	5.7	915	1.7	–	0.71	71	3.4	1.8	1.8	11.5	14.9
JDS80M6	0.75	7.8	915	2	3	0.71	75.9	3.6	2	1.9	14.3	21.5
JDS90L6	1.1	11.3	930	3	3	0.68	78.1	4.2	2.3	2.3	21.5	43.5
JDS100M6	1.5	15.5	925	4	3	0.68	79.8	4.2	2.7	2.7	26	56
JDS100L6	2.2	22	955	5.4	3	0.74	81.8	5.5	2.1	1.8	41.5	146
JDS112M6	3	30.5	945	7	3	0.76	83.3	5.1	1.9	1.6	41.5	146
JDS132S6	4	40.5	940	9.2	3	0.76	84.6	4.3	2.1	1.9	44	190
JDS132M6	5.5	55	960	13.1	3	0.73	86.0	5.2	2	1.8	80	520
JDS160M6	7.5	75	955	17.6	3	0.73	87.2	5.1	2.2	1.9	92	630
JDS180M6	11	108.3	970	24.2	3	0.81	88.7	6.5	2.0	2.1	126	1110

电机 型号 Type	功率 Power [kw]	转矩 Torque [N.m]	转速 Rated speed [r/min]	电流 Rated current [A]	能效等级 energy efficiency index GB18613-2012	功率 因数 power factor cos ϕ	效率 efficiency [%]	堵转电流 额定电流 Ist/In	堵转转矩 额定转矩 Tsn/Tn	最大转矩 额定转矩 Tmax/Tn	质量 m [kg]	转动惯量 Jmot [10^{-4} kgm^2]
JDS180L6	15	147.7	970	31.6	3	0.81	89.7	7	2.0	2.1	169	1680
JDS200LS6	18.5	180.3	980	38.6	3	0.83	90.4	7	2.1	2.1	211	2160
JDS200L6	22	214.4	980	44.8	3	0.83	90.9	7	2.1	2.1	225	2360
JDS225M6	30	290.9	985	59.3	3	0.84	91.7	7	2.0	2.1	281	3430

JDE 系列,2 级能效（GB18613-2012）/ n=1000rpm-S1
JDE series, level 2 energy efficiency

表8 /Table 8

电机 型号 Type	功率 Power [kw]	转矩 Torque [N.m]	转速 Rated speed [r/min]	电流 Rated current [A]	能效等级 energy efficiency index GB18613-2012	功率 因数 power factor cos ϕ	效率 efficiency [%]	堵转电流 额定电流 Ist/In	堵转转矩 额定转矩 Tsn/Tn	最大转矩 额定转矩 Tmax/Tn	质量 m [kg]	转动惯量 Jmot [10^{-4} kgm^2]
JDE90L6	0.75	7.6	940	2.2	2	0.65	78.9	4.6	2.4	2.4	21.5	43.5
JDE100M6	1.1	11.2	940	3.2	2	0.64	81	4.7	3.0	3.0	26	56
JDE100L6	1.5	15.2	940	4.2	2	0.66	82.5	5	3.3	3.3	29	68
JDE112M6	2.2	22	955	5.3	2	0.74	84.3	5.5	2.1	2.1	41.5	146
JDE132S6	3	30	955	7.2	2	0.74	85.6	5.5	2.3	2.3	46.5	190
JDE132M6	4	40	960	9.9	2	0.71	86.8	6.1	2.8	2.8	60	255
JDE160M6	5.5	54	965	13.2	2	0.72	88.0	5.8	2.3	2.3	89	630

JDP 系列,1 级能效（GB18613-2012）/ n=1000rpm-S1
JDP series, level 1 energy efficiency

表9 /Table 9

电机 型号 Type	功率 Power [kw]	转矩 Torque [N.m]	转速 Rated speed [r/min]	电流 Rated current [A]	能效等级 energy efficiency index GB18613-2012	功率 因数 power factor cos ϕ	效率 efficiency [%]	堵转电流 额定电流 Ist/In	堵转转矩 额定转矩 Tsn/Tn	最大转矩 额定转矩 Tmax/Tn	质量 m [kg]	转动惯量 Jmot [10^{-4} kgm^2]
JDP90L6	0.75	7.6	940	2.1	1	0.65	83.1	4.6	2.4	2.4	21.5	43.5
JDP100L6	1.1	11.1	950	3.2	1	0.63	84.1	5.3	3.6	3.1	29	68
JDP112M6	1.5	14.8	965	3.8	1	0.7	86.2	6.2	2.4	1.7	41.5	145
JDP132S6	2.2	22	965	5.3	1	0.72	87.1	6.0	2.5	2.2	46.5	188
JDP132M6	3	29.5	970	7.3	1	0.7	88.7	6.6	2.9	2.7	60	250
JDP160M6	4	39	975	9.8	1	0.69	89.7	6.4	2.5	2.2	89	630

4. 选型说明
selection instructions

4.1 标准与规定
Standards and Regulations

电机执行标准
Execution standard

IEC 60034-1 EN 60034-1
旋转电机定额及性能/Rotating motor quota and performance
IEC 60034-2-1 EN 60034-1
旋转电机通过试验测定旋转电机损耗和效率的标准方法
Standard Method for Determining Rotor Motor Loss and Efficiency by Rotating Motor
IEC 60034-9 EN 60034-9
旋转电机噪音限制/Rotating motor noise limits
IEC60034-14 EN60034-14
旋转电机振动标准/Rotating motor vibration standard
IEC 60034-30
旋转电机效率等级IE1、IE2、IE3等级/Rotary motor efficiency pole IE1、IE2、IE3
EN60529、IEC60034-5、EN60034-5
IP防护等级/ Degree of IP protection

额定数据
Rated data

三相异步电动机的具体数据/Three-phase asynchronous motor specific data

- 规格/Type
- 额定功率/Rated Output
- 负载持续率/Cyclic Duration Factor
- 额定转速/Rated Speed
- 额定电流/Rated Current
- 额定电压/Rated Voltage
- 功率因数 Cos/Power Factor
- 防护等级/Degree of Protection
- 绝缘等级/Insulation Class
- 效率/Efficiency

以上数据在电机铭牌上标出。根据IEC 60034（EN 60034）此铭牌数数据是针对环境温度在最高40℃、海拔最高1000米的情况。

The above datas are marked on the motor nameplate. According to IEC 60034 (EN 60034) this nameplate data is for ambient temperatures up to 40°C and elevations up to 1000 m above sea level.

举例
Example

JD电机铭牌
JD motors nameplate

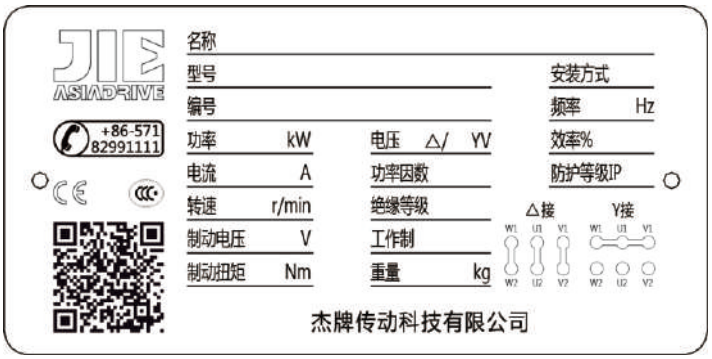
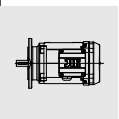
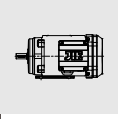


图4 / Chart 4





偏差
Deviation

根据IEC60034（EN 60034）在额定电压时（或额定电压范围）电机性能的偏差如下：
According the IEC60034(EN60034) with the rated voltage(or range of rated voltage), the deviation of motor's performance is as:

表10 /Table 10

序 号 serial number	电气性能名称 Electrical performance name	容 差 Tolerance
1	效率/Efficiency 额定功率在45KW及以下 / The rated power is 45KW and lower 额定功率在45Kw以上 /The rated power is over 45kw	 −0.15(1−η) −0.10(1−η)
2	功率因数，cosΦ Power factor cosΦ	−（1−cosΦ）/6
3	堵转转矩倍数 Locked rotor torque	保证值的 − 15% Protection value
4	最大转矩倍数 Maximum torque	保证值的 − 10% Protection value
5	堵转电流倍数 Locked rotor current multiple	保证值的 + 20% Protection value

偏差A,偏差B
Deviation A, Deviation B

偏差A和B区描述的允许偏差范围是在频率和电压允许偏离各自额定点的范围内，下图描述了这个范围。原点“0”被视为频率和电压各自的额定点。
The bounds of allowable deviation characterized in the Deviations A zones and B zones are the bounds when frequencies and voltages are allowed to deviate from their respective fixed points, please refer to the following figure. The origin "0" is regarded as the respective fixed point of frequency and voltage

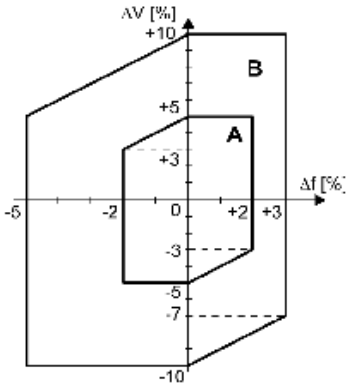
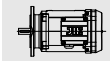


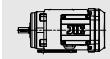
图5/Chart 5

在偏差A范围内电机必须能在连续工作制（S1）下输出额定扭矩。其它特性值和温升与额定频率、电压下的值销有偏差。
在偏差B范围内电机在非连续工作制下能输出额定扭矩。温升及额定参数的偏离比A高应尽量避免电机经常在偏差B范围内运行。
In the range of deviation A, the motor must output rated torque in the continuous working (S1) .
Other characteristic value and temperature rise with the rated frequency, the voltage value have the slight deviation.
The motor can output the rated torque in the discontinuous working in the range of B. when the deviation of temperature rises and the rated parameter is higher than A ,the motor should avoid to run in the range of deviation B.

欠电压
Undervoltage

如果出现欠电压或不适当的电机电缆功率、转矩和转速参数可能达不到样本中所列的数值特别是在电机起动时起动电流是额定电流的数倍
If there is an undervoltage or improper voltage，the motor power, torque and rotational speed parameters may not reach the values listed in the sample book,especially when the motor is started, the starting current is several times than the rated current.





4.2 电气性能

Electrical Performance

适用于变频控制
Apply to converter fed control.

JD系列交流（制动）电机采用高性能绕阻作为标准配置全部可用于变频器控制。
JD series AC (brake) motors adapt high performance winding as standard configuration for the frequency conversion control.

频率
Frequency

根据需要JIE的交流电机设计为供电频率50Hz或60Hz。标准设计为50Hz，在电机参数表中的技术数据是基于供电频率50Hz。
有些特殊的JDS和JDE电机可以在50Hz和60Hz供电系统下运行。不同电气规则的地区可通用一种电机。不同国家关于最低效率等级的规范可以用一种理想方法实现。对于这类特殊电机，请您联系JIE公司。
According to the requirement, JIE motors are designed for 50HZ or 60HZ. 50HZ is the standard design. In the motor parameter table , some special JDS and JDE motor can work on the 50HZ and 60HZ. One type motor can be used universally in the area with different electricity regulation. The different countries' different minimum efficiency grade regulations can be realized with an ideal method. About these special motors, please contact to JIE.

电机电压
Motor voltage

标准电机和能效电机均满足额定电压范围：220–690V。
额定功率在3KW及以下的电机通常按照以下设计：
・额定电压220V△/380VY 50Hz。
额定功率在4KW及以上的电机通常按照以下设计：
・额定电压380V△/660VY 50Hz。
注：电机电压使用范围在标准电压的±5%以内。（如220V△/380VY 50Hz可在210～230 V△/360～400VY 50Hz范围内正常使用）

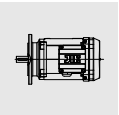
Standard motor and high efficiency motor can match rated voltage range : 220–690V
・The rated voltage220V△/380VY 50HZ
The motor of 4KW and above will be designed as following:
・Rated voltage 380V△/660VY 50HZ
Remark: the application range of motor voltage is within the ±5%.(for example , 220V△/380VY 50H can be used within 210V–230V△/360–400VY 50HZ)

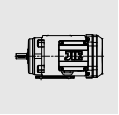
强冷风机电压
Forced cooling fan

表11 /Table 11

电源类型 Power type	电源电压 Power voltage	电源频率 Power frequency
三相 Three phase	380VAC	50Hz
	380VAC	60Hz
单相 Single phase	220VAC	50Hz
	220VAC	60Hz

・风机为宽电压使用，在电压波动±5%的范围（即电压在50Hz 基频下220–240△/380–420Y)内，其风量应不低于表中的规定值的5%，其测试方法按GB1236 测试。
・风机的外壳防护等级为IP54。
・风机绝缘等级为F 级，其绕组温升不得超过80K(电阻法)。
・风机的驱动电机绕组对地应承受历时1分钟的耐压试验而不击穿，其试验频率为50Hz，实际波形为正弦波，电压有效值为1000+2UN(V),(UN：风机的额定电压)。
・风机的驱动电机绕组对机壳的绝缘电阻在常温下不低于20MΩ。





When the fan work on the wide voltage, the voltage fluctuates within ±5% (220–240v/380–420Y,50HZ).
The air flow is not lower than 5% of the data in the table, and the test follow GB1236.
The IP grade of fan is IP54
The insulation grade is F, the winding temperature can't rise over 80K (electric–resistivity method)
The coil of fan motor will not be broke down withstanding 1 minute breakdown test to the ground, the test frequency is 50HZ, the actual waveform is sine wave, and the voltage effective value is 1000 2UN (V),(UN: the rated voltage of fan)
Insulation resistance of the fan motor winding to the cover will not be lower than 20M in the normal temperature

制动电压
Brake voltage

表12 /Table 12

制动器电压： Brake voltage	电机功率4kW 以下：单相AC220V The motor power is lower than 4KW：220V 1~
	电机功率4kW 以上(包括4kW):单相AC380V The motor power is over 4KW(include 4 kw):380V 1~
整流方式： Mode of rectification	制动电压为110VAC–260VAC 时为全波整流 Full wave rectification when braking voltage is 110VAC–260VAC
	制动电压为261VAC–575VAC 时为半波整流 Half wave rectification when the brake voltage is 261VAC–575VAC
释放装置： Release mode	HR（手柄释放）HF（螺钉释放） HR(handle release)HF(screws release)

50Hz电机用于60Hz电源
50HZ motor can be used to 60HZ power.

设计用50Hz电源的电机在60Hz电源运行时额定数据稍有变化。
When the motor with 50Hz power is used in the 60HZ power , the rated data changes slightly.

表13 /Table 13

50Hz电机电压 50Hz motor voltage	电机连接方式 Motor connection	60Hz电压 60Hz voltage U[V]	额定数据修正值 Rated data correction value			
			n_N	P_N	M_N	M_A / M_N
AC 220 / 380V /Δ/⅄	Δ	220	+20 %	0 %	-17 %	-17 %
AC 220 / 380V /Δ/⅄	⅄	380	+20 %	+20 %	0 %	0 %
AC 380 / 660 V /Δ/⅄	Δ					

如果您想将50Hz电机用于60Hz电源请联系JIE。
If you want to use the 50Hz motor for 60Hz power supply please contact JIE.

绝缘耐热性能
Insulation resistance

根据（IEC 60034–1）划分的温升等级

所有三相异步（制动）电机是以绝缘等级155（F）级作为设计标准，根据要求也可采用绝缘等级180（H）级。

下表列出了符合IEC62114和IEC60034–1（EN60034–1）要求的温升。

According to the IEC60034–1 temperature rise classification.
All three phase asynchronous motors are based on the insulation level 155(F) as the design standard,and can also be compliant to requirements of the insulation class 180H.
The following table lists the temperature rise in accordance with the requirements of IEC62114 and IEC60034.

表14 /Table 14

绝缘等级 Insulation class 新/New	旧/Old	温升限值[K] Temperature limit [K]
155	F	105 K
180	H	125 K

功率减小
Power Reduction

电机的额定功率P_N取决于环境温度和安装海拔高度。铭牌上的额定功率对应海拔1000m以下和40 ℃以内的环境温度。如果环境温度更高或安装海拔高度更高电机额定功率将相应减小，可用下列公式修正：

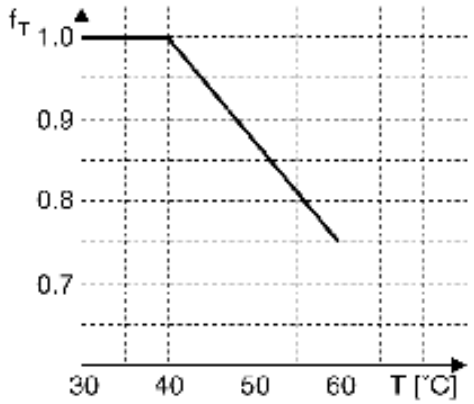
The rated power of the motor P depends on the ambient temperature and installation elevation. The normal rated power on the nameplate is measured with condition below 1000m above sea level and the temperature less than 40 degrees. If the ambient temperature is higher or the installation elevation is higher, the motor rated power will be reduced accordingly.

$$P_{Nred} = P_N \times f_T \times f_H$$

交流电机
AC motor

下表显示了由环境温度和海拔高度变化而引起的功率调整变化。表中对于交流电机列出了系数和：

The following table shows the power regulation variation caused by changes in ambient temperature and altitude. Tables for AC motors are listed in the coefficients and the definition of work in IEC60034 is as follows:



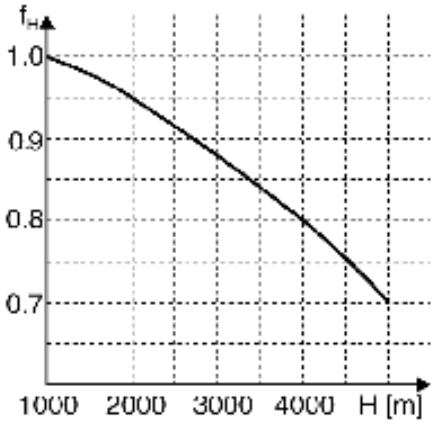
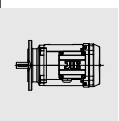
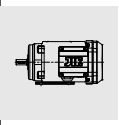


图6/Chart 6

T=环境温度/Ambient temperature

H=海拔高度/Altitude





工作制
Duty cycle

IEC 60034-1（EN 60034-1）中定义的工作制如下：

表15 /Table 15

工作制 Duty cycle	注释 Annotations
S1	连续工作制：恒定载荷下运行，电机达到稳定状态 Continuous Duty cycle: Stable operation under constant load
S2	短时运行工作制：在规定的有限时间内恒载运行，随后停机直至电机恢复到环境温度。 Short-time Duty cycle: The motor operates in a limited period of time and then stops until the motor returns to the ambient temperature.
S3	断续周期工作制：起动过程对温升无影响。按一系列相同的工作周期运行。每一周期包括一段恒定负载时间和停转时间，以“负载持续率(cdf)”%表征。 Intermittent working system: Motor start-up process has no effect on temperature rise. Each cycle consists of a constant load time and a stop time, expressed in cdf%
S4-S10	断续周期工作制：起动过程对温升有影响，运行由一系列相同周期构成，每个周期内包括恒载段和暂停段。可用“负载持续率(cdf)”%和每小时起停次数来描述。 Intermittent working system: The starting process of motor has influence on temperature rise. The motor operates in a series of identical operating cycles. Each cycle includes a period of constant load and stop time, expressed in cdf%

	提示/Remark
i	对于变频器控制S1工作制通常是假定的,对于每小时很多次循环周期的工况,必须按S9继续周期工作制考虑 For the inverter control S1, the operating system is usually assumed. For numerous cycle per hour of the working conditions, it must be in accordance with the S9 cycle system.

下图显示了S1、S2和S3工作制
The following figures show the duty cycles of S1, S2 and S3.

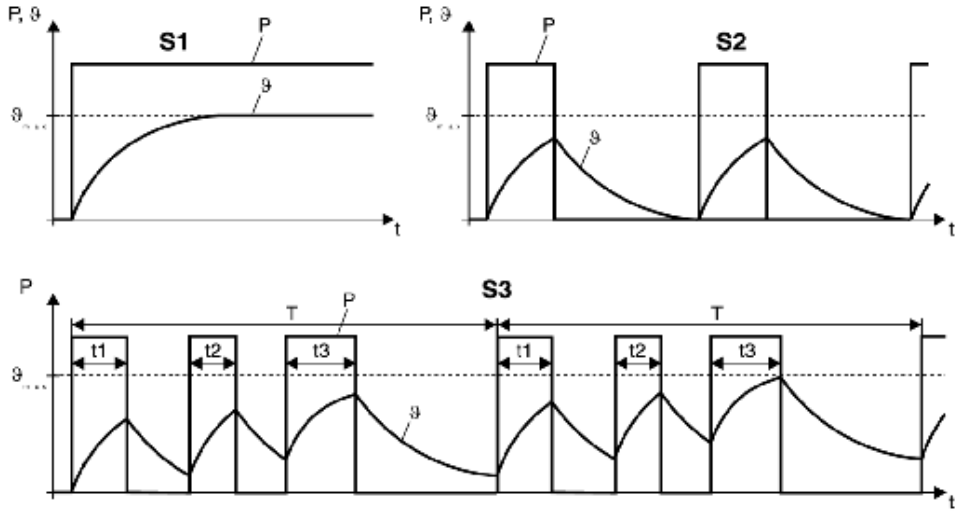


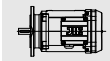
图7/Chart 7

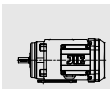
负载持续率(cdf)
Cyclic Duration factor

负载持续率（cdf）是负载持续时间与工作周期持续时间的比值。工作周期时间是运行时间综合加上无电压间歇时间。典型的一工作周期时间是10分钟。

It is ratio of cyclic duration factor and working cycle time .The duty cycle time is the run time plus the no-coltuge intermittent time.Typical working cycle time is ten mimutes.

$$CDF=\frac{\text{运行时间总和}(t1+t2+t3)\ \text{Sum of the operation hours}}{\text{工作周期时间（T）}\ \text{working cycle time}}\cdot 100[\%]$$





功率增长系数K
Power growth coefficient K

根据IEC60034(EN60034)电机额定功率只适用于S1（100%cdf）除非有特除规定。如果按S1工作制（100%cdf）设计的电机要在S2“短时运行工作制”或“S3周期运行工作制”下运行允许输出功率应是额定功率与功率增长系列K的乘积。

According to IEC60034 (EN60034) the motor power rating is only applicable to S1 (CDF) 100% unless there are special provisions. If the motor that designed according to S1 working system (100% CDF) wants to run under S2 "Short-time duty operation "or "S3 cycle operating duty", the output power should be the product of the rated power and power growth series coefficient K.

表16 /Table 16

工作制 Duty cycle			功率增长系数K Power growth coefficient K
S2	运行时间/Working time	60 min 30 min 10 min	1.1 1.2 1.4
S3	负载持续率/Cyclic duration factor	60% 40% 25% 15%	1.1 1.15 1.3 1.4
S4-S10	为了确定额定功率和工作制，必须给出每小时启停次数和方式起动时间、负载时间、制动类型制动时间、空转时间、周期时间、间歇时间和所需功率 In order to determine the rated power and work system, it should give out start-stop times and ways, starting time, load time, brake type, braking time, idle time, cycle time, intermittent time and required power in per hour.		根据要求而定 According to the request

如遇大反向转矩和高转动惯量（高惯量起动）时，请与JIE联系索取精确技术数据。

When encounter big reverse torque and high moment of inertia (high inertia starting), please contact JIE for accurate technical data.

起动频率
Start frequency

通常电机是根据其热载荷设计的许多情况下电机按S1工作制运行（S1=连续工作制=100%cdf）。根据负载转矩计算出的功率应等于该电机额定功率。

Usually motor is designed according to the thermal load, in many cases the motor according to S1 work system (S1 = continuously work system= 100%cdf).Power should be calculated according to the load torque should be equal to the rated power of the motor.

高起动频率
High frequency starting

常遇到采用高起动频率驱动设备如：行走驱动设备。这种情况下选择电机的决定性因素不是所需功率而是电机起动次数。电机每次接通产生高起动电流导致电机温升过高。如果电机产生的热量大于通风系统排放的热量绕组将过热烧毁。提供电机承受热载荷的能力可以通过选择适当的绝缘等级或采用强制冷风扇。

Often use high frequency starting drive equipment such as: walking drive equipment. Under this circumstance, the decisive factor of choosing the motor is the starting times, not the required power . Every time the motor with a high starting current leads to temperature rise too high. If the heat generated by the motor emission of heat winding is greater than the ventilation system , it will overheat and damage . Under thermal load capacity can provide motor through selecting proper insulation class or using the forced air cooling fan.

空载起动频率Z_0
No-load start frequency Z_0

JIE规定电机的许用起动频率为50%cdf(负载持续率)时的空载起动频率Z_0，Z_0表示在50%cdf时且没有反向转矩情况下每小时允许电机将其转子的转动惯量加速至所需转速的次数。如果加速时有附加转动惯量或存在一个额外的负载转矩电机的起动时间将增加。这说明电机由于热载荷增大而允许的起动频率降低。

JIE stipulate allowable start frequency of the motor is 50% the CDF (duty cycle) at the time of the no-load speed start frequency Z_0, Z_0 said at 50% CDF and without anti-torque the allowance times of motor moment of inertia of the rotor speed from to the number of rotation per hour. Speed up to see if there are additional rotational inertia or there is an additional load torque of the motor starting time will increase. This suggests that due to the heat load the motor allows less starting frequency.

电机许用起动频率
Motor allowable starting frequency

电机许用起动频率Z可以用下列公式计算（起停次数/小时即c/h）:

Motor allowable starting frequency Z can use the following formula (start–stop times/h)

$Z = Z_0 \times K_J \times K_M \times K_P$

系数K_J K_M和K_P参考下图：

The coefficients K_J K_M and K_P refer to the following figure:

附加转动惯量函数
Additional moment of inertia function

加速时反向专柜
Accelerated reverse torque

静态功率和负载持续率“cdf”
Static power and load endurance

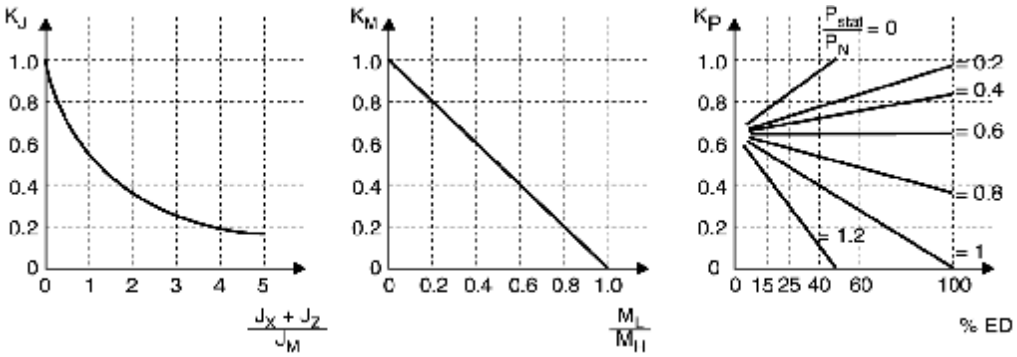


图8 / Chart 8

J_x=附加转动惯量函数
J_z=飞轮风扇的转动惯量
J_m=电机的转动惯量
M_L=加速时反向转矩

M_H=电机加速转矩
P_{stat}=加速后所需功率（静态功率）
P_N=电机额定功率
%cdf=负载持续率

J_x=Additional moment of inertia function
J_z=The rotational inertia of the flywheel fan
J_m=Momet of Inertia
M_L=Accelerated reverse torque

M_H=Motor speed torque
P_{stat}=Static power
P_N=The motor rated power
%cdf=Cyclic duration factor

例如
For example

制动电机JDS71M4 Be1/Brake motor JDS71M4 Be1

空载起动频率Z_0=11000 perh/No–load start frequency Z_0=11000 perh

1.$(Jx+Jz)/J_M=3.5$ $K_J=0.2$

2.$M_L/M_H=0.6$ $K_M=0.4$

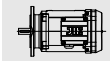
3.$P_{STAT}/P_N=0.6$和60% CDF $K_P=0.65$

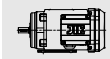
$Z=Z_0 X K_J X K_M X K_P$ =11000 1/h x0.2x0.4x0.65=572 1/h

周期为6.3s运行时间为3.8s。
Cycle is 6.3S operation time is 3.8s

电机许用起动频率
Motor allowable starting frequency

如果您使用的是制动电机，您必须核实一下制动器在要求的起动频率下使用是否可以。
If you are using a brake motor, you must check whether the brake can be used in the requirements or not under the start frequency





4.3 JD电机的保护装置
JD Motor protective device

起停操作
Start–stop operation

如果电机在起停转换操作时必须对开关装置采取适当的抗干扰措施。
If the motor is in start–stop operation, it must take appropriate Anti–interference measures

电机的保护
Motor protection

旋转正确的保护装置是确保电机安全运行的重要因素。电流保护和电机温度保护是有区别的电流保护装置包括熔断器或电机断路器。
温度保护装置包括绕组中的PTC热敏电阻或双金属片开关（thermostats）当达到绕组的最大许用温度时PTC热敏电阻或双金属片开关就会动作。其特点就是直接检测设定的温度。
Right rotating protection device is an important factor to ensure the safe operation of the motor. Motor protection and motor temperature protection are different, as the motor protection device comprises a fuse or a motor circuit breaker.
The temperature protection device comprises a PTC thermistor or a bimetal switch in the winding (thermostats). When the maximum permissible temperature of the winding is reached, the PTC thermistor or bimetal switch will act. It is characterized by the direct detection of the set temperature.

电机保护开关
Motor protective switch

通常电机在起动频率低起动时间短起动电流小的工作模式下其断路器可提供充分的过载保护。电机断路器一般设置在电机的额定电流值。在起动频率（ >60次/小时）和高起动惯量场合仅依靠电机断路器来提供保护是不够的。在这种情况下我们推荐使用（PTC）热敏电阻保护器TF。
Usually the motor can provide sufficient overload protection when the starting frequency is low and the starting time is short and the starting current is small. Motor short circuit is generally set in the motor rated current value. It is not enough to rely solely on the motor circuit breaker to provide protection at the starting frequency (>60 / h) and the high starting inertia. In this case, we recommend the use of (PTC) thermistor protection TF.

TF PTC热敏电阻
TF PTC Thermistor

3个（PTC）热敏电阻TF（PTC特性曲线参看DIN 44080）串联在电机内并从接线盒连至变频器的TF/TH输入端或是开关柜内的继电器上。用（PTC）热敏电阻保护器可为电机提供全面的过热保护。采取这种保护装置电机可用于高惯量起动转换制动运行和不稳定的供电系统。通常电机断路器也和TF一起配合作用。当用变频器控制时JIE建议电机上加装TF。
3 (PTC) thermistor TF (PTC characteristic curve see DIN 44080) series are connected in the motor and from the junction box connected to the input of the inverter TF/TH or switch cabinet on the relay. With (PTC) thermistor protection for the motor to provide full protection against overheating. The motor can be used for high inertia starting braking operation and unstable power supply system. Usually motor circuit breaker and TF work together. When using the inverter control JIE recommend motor installed on the TF.

TH 双金属片保护开关
TH bimetallic protection switch

3个双金属开关片TH串联在电机绕组内并直接从接线连至电机检测电路中。
The three bimetallic switch sheets TH are connected in series within the motor windings and directly from the wiring to the motor detection circuit.

触发温度
Trigger temperature

电机的热保护是通过埋在电机绕组里的TF热敏电阻或TH双金属片开关来实现的。触发温度比电机绝缘等级所能达到的最高保护值要略低一点。TF热敏电阻和TH双金属片开关的触发温度如下表：
The thermal protection of the motor is realized by burying the TF thermistor or TH bimetal switch in the motor winding. The trigger temperature is a little lower than the highest temperature of the motor insulation grade. The trigger temperature of TF thermistor and TH bimetal switch is as follows:

表17 /Table 17

绝缘等级 Insulation Level	触发温度/Trigger temperature Tf的额定响应温度/Rated response time of TF TH的额定开关温度/TH rated switching temperature JDS、JDE、JDP
155(F)	150℃
180(H)	170℃

电感性绕组的安全转换
Safe conversion of inductive winding

注意以下电感性转换。
Note the following inductive conversion

低速电机绕组转换
Low speed motor winding conversion

如果电缆布线不当低速电机绕组转换时产生峰值电压。这种峰值电压可以损坏绕组和触点。为了避免这种情况可以将连接导线与压敏电阻连在一起。

If the cable is not suitable wiring，peak voltage will happen during the low speed motor winding conversion. This peak voltage can damage the windings and contacts. In order to avoid this situation, the connecting wire can be connected with the varistor.

变频控制
Frequency control

请根据变频器制造商提供的安装操作说明来进行变频操作。
According to the installation instructions provided by the frequency converter manufacturer for frequency conversion operation。

变频器控制下的制动电机
Frequency conversion motor controlled by frequency converter

制动电机的制动电缆布线应与其它电源电缆分开并保持至少200mm的距离。除非制动电缆或电源电缆是带屏蔽的才允许共同布线。

Brake motor cable wiring should be separated from other power cables and maintained at least 200mm distance. Common wiring is allowed unless the brake cable or power cable is shielded.

变频器控制测速器的联接
Inverter control the speed of the connection

在联接测速器时请按照以下说明进行
- 只准使用带屏蔽的双绞线电缆。
- 屏蔽两端都通过大的接触面连至PE点位上。
- 信号电缆布线应与电源电缆或制动电缆分开（最短距离为200mm）。

In conjunction with the speedometer,
- Please follow the instructions below.
- Both ends of the shield are connected to the PE point through a large contact surface.
- The signal cable wiring should be separated from the power cable or the brake cable (the shortest distance is 200mm).

变频器控制下热敏电阻保护器（TF）的联接
The connection of thermistor protector (TF) under the control of frequency converter

PTC热敏电阻保护器TF的联接电缆布线应与电源电缆分开并保持至少200mm的距离。除非TF联接电缆和电源电缆带屏蔽才允许共同布线。

The connection cable wiring of the PTC thermistor protector TF shall be separated from the power cable and maintained at least 200mm distance. Common wiring is not allowed unless the TF connection cable and the power band shield.

制动线圈的开关
Brake coil switch

盘式制动器直流电路的开关可产生过电压，必须用压敏电阻为消除这种危害。JIE制动控制系统标准配置中包含压敏电阻。

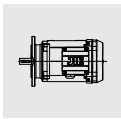
Disc brake DC circuit switch can produce over voltage，It must be used to eliminate this hazard. The standard configuration of the JIE brake control system includes a varistor.

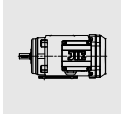
开关装置上的保护电路
Protection circuit for switching device

为保护数字或程序逻辑控制器、电机绕组必须要抑制电磁干扰。我们建议在开关装置上安装保护电路以免使电子设备遭到破坏。

In order to protect the digital or program logic controller, the motor winding must suppress the electromagnetic interference. It is recommended that the protective circuit should be installed on the switchgear to avoid damage to the electronic equipment.

5. 机械特性
Mechanical Design





执行标准
Execution standard

电机外壳防护等级执行标准EN 60034(IEC 60034-5)

JIE交流电机防护等级以IP55为标配，制动和变频电机以IP54为标配，根据需要还可提供IP55及IP56等级。

Motor shell protection grade standard EN60034 (IEC60034-5).

JIE AC motor protection based on IP55 standard, Brake and variable frequency motor based on IP54 standard, IP55 and IP56 levels can also be provided as required。

表18 /Table 18

IP	防异物等级 Foreign body level	防水等级 Waterproof grade
0	无专门防护 No special protection	无专门防护 No special protection
1	防止直径大于50mm的固体异物进入壳体 Prevention of solid foreign body diameter greater than 50mm into the shell	垂直滴水应无有害影响 Vertical drip should be no harmful effects
2	防止直径大于12mm的固体异物进入壳体 Prevention of solid foreign body diameter greater than 12MM into the shell	当电机从正常位置向任何方向倾斜15度以内任何一角时垂直滴水应无有害影响 There is no harmful effect on the vertical drop of water when the motor is tilted from any direction to any angle within 15 degrees
3	防止直径大于2.5mm的固体异物进入壳体 Prevention of solid foreign body diameter greater than 2.5mm into the shell	防止淋水 Prevention of water drenching
4	防止直径大于1mm的固体异物进入壳体 Prevention of solid foreign body diameter greater than 1mm into the shell	防溅水 Splash proof
5	防尘 Dustproof	防喷水 Spray proof
6	尘密 Dust tight	防强烈喷水 Anti strong spray
7	-	防短时浸水 Short time flooding
8	-	防长期潜水 Long term diving

电机振动
Motor vibration

表19 /Table 19

电机规格 Motor specifications	63S～132ML		160M～225M		250M～315L	
同步转速 r/min Synchronous speed	600～1800	〉1800～3600	600～1800	〉1800～3600	600～1800	〉1800～3600
振动等级 Vibration level	振动速度有效值,mm/s Effective velocity of vibration					
N	1.8		2.8		3.5	
R	0.71	1.12	1.12	1.8	1.8	2.8
S	0.45	0.71	0.71	1.12	1.12	1.8

注：JD系列电动机按N级制造，如用户需要可按R级或S级制造。
Note: the JD series motors are manufactured according to N, and can be manufactured to R or S if the user requires.

Ks防腐保护

Ks Corrosion protection

如果电机暴露于室外且无防护措施需增加KS防腐保护。

If the motor is exposed outside without protective measures are needs to increase KS corrosion protection

轴承型号

Bearing type

下表列出所允许使用的轴承型号：

The following table lists the types of bearings to be used

表20 /Table 20

电机型号 Motor type	A端轴承(前轴承)IEC电机 A-end bearing (front bearing) IEC motor	B端轴承(后轴承)IEC电机 B-end bearing (Rear bearing) IEC motor	IEC制动电机 IEC Brake motor
JD.63	6202-2Z-J-C3	6202-2Z-J-C3	6202-2Z-J-C3
JD.71	6204-2Z-J-C3	6203-2Z-J-C3	6203-2Z-J-C3
JD.80	6205-2Z-J-C3	6204-2Z-J-C3	6204-2Z-J-C3
JD.90-JD.100	6206-2Z-J-C3	6205-2Z-J-C3	6205-2Z-J-C3
JD.112-JD.132	6208-2Z-J-C3	6207-2Z-J-C3	6207-2Z-J-C3
JD.160	6209-2Z-J-C3	6209-2Z-J-C3	6209-2Z-J-C3
JD.180	6311-2Z-J-C3	6211-2Z-J-C3	6213-2Z-J-C3
JD.200	6312-2Z-J-C3	6212-2Z-J-C3	6213-2Z-J-C3
JD.225	6313-2Z-J-C3	6312-2Z-J-C3	6313-2Z-J-C3

变频控制下JDS、JDE、JDP电机的转矩限制曲线

Torque limit curve of JDS, JDE and JDP under variable frequency control

转矩

Torque

在带变频器的JD异步交流电机选项过程中应考虑其转矩的大小以下几点决定转矩允许值:

- 工作制
- 冷却方式:自冷或强制冷却
- 基频:f_{base}=50Hz(400V人)或f_{base}=87Hz(230V△)

转矩限制曲线决定着转矩的大小。所选择的转矩必须小于转矩限制值。下面举例说明了的4极JDS异步电机（f_{base}=50Hz和f_{base}=87Hz）的限制曲线。以下为该转矩限制曲线所遵守的条件：

- S1工作制
- 变频器供电电压V_{line}=3×AC400V
- 电机绝缘等级155（F）

The size of the torque should be considered in the process of JD asynchronous motor with frequency converter. The following points determine the allowable torque value

- Work system
- Cooling mode:Self cooling or forced cooling
- Baseband:f_{base}=50Hz(400V人)或f_{base}=87Hz(230V△)

The torque limit curve determines the torque. The selected torque must be less than the torque limit. The following example illustrates the limits of the 4 pole JDS asynchronous motor. The following is the condition of the torque limit curve：

- duty S1
- Inverter supply voltageV_{line}=3×AC400V
- Motor insulation class155（F）

f_{base}=50Hz(400V人/50Hz)

f_{base}=50Hz时的转矩限制曲线如下图所示。自冷电机与强制冷电机（=带强冷风扇）的转矩限制曲线是不同的。

f_{base}=50HZ torque limit curve as shown below. The torque limiting curve of the self cooling motor and the forced cooling motor (with forced cooling fan) are different.

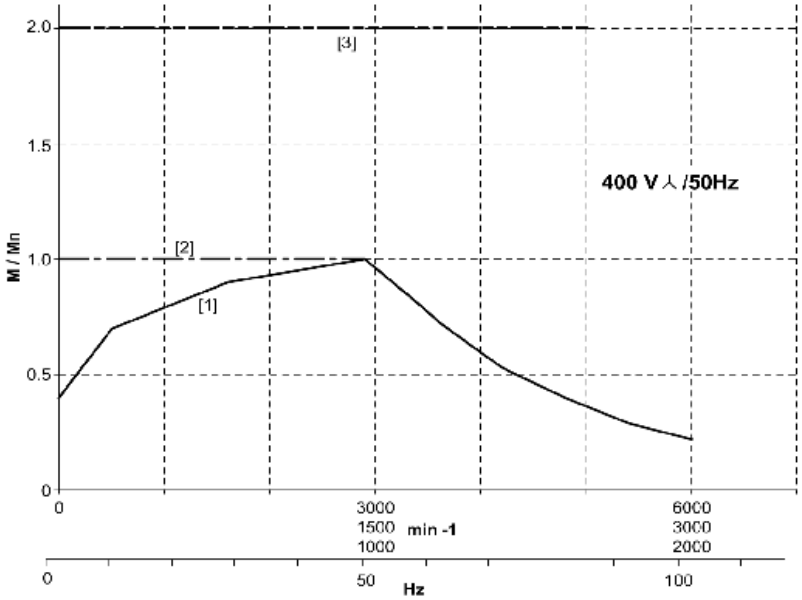


图9 / Chart 9

[1] S1工作制自冷（=无强冷风扇）/duty S1 self cooling (no forced cooling fan)

[2] S1工作制强冷（=带强冷风扇）/duty S1 forced cooline (with forced cooling fan)

[3] 减速电机的机械极限/Mechanical limit of gear motor

f_{base}=87Hz(230V△/50Hz)

f_{base}=87Hz时的转矩限制曲线如下图所示。自冷电机与强制冷电机（=带强冷风扇）的转矩限制曲线是不同的。

f_{base}=87Hz torque limit curve as shown below. Self cooling motor and forced cooling motor (with wind fan) the torque limit curve are different.

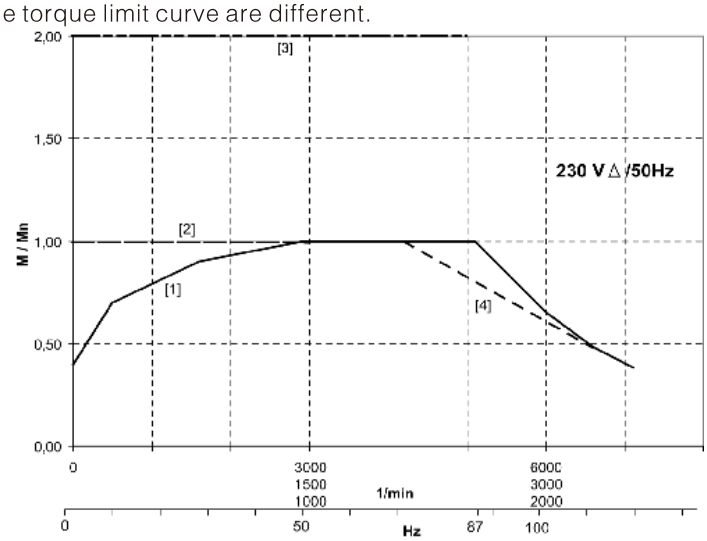
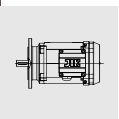


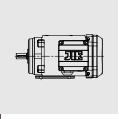
图10 / Chart 10

[1] 工作制自冷方式（=无强冷风扇）/Self cooling system

[2] 工作制强冷方式（=带强冷风扇）/Forced cooling system

[3] 减速电机的机械极限/Mechanical limit of speed reducer





6. 制动器
Brake

6.1 说明
Descirption

我公司电机壳根据需要加装电磁式制动器。

电磁式制动器是带直流线圈的励磁盘式制动器结构,制动器原理为断电制动,即通过直流线圈感应的电磁力使制动器释放,而弹簧产生力使制动器制动。制动器上通过安装手动释放装置来实现机械方式释放，即制动器上可以安装一个释放手柄或释放螺钉，释放手柄会自动复位，而释放螺钉使可以锁紧螺钉来实现机械复位。制动器的接线方式既可直接安装在电机接线柱上也可以安装在开关柜内。

As needed, Our company's electric motor can be equipped with electromagnetic brake as requirement. Electromagnetic brake is a magnetic disc brake structure with DC coil, the brake principle is power off brake, i.e. DC coil induction by the electromagnetic force of the brake release, and spring force to brake. Brake by installing manual release device realize mechanical brake release, which can be mounted on a release handle or release the screw, the release lever will automatically reset and release the screw can be locked screws to achieve reduction.The connection mode of the brake can be directly installed on the motor terminal and can also be installed in the switch cabinet.

6.2 结构图
Construction Diagram

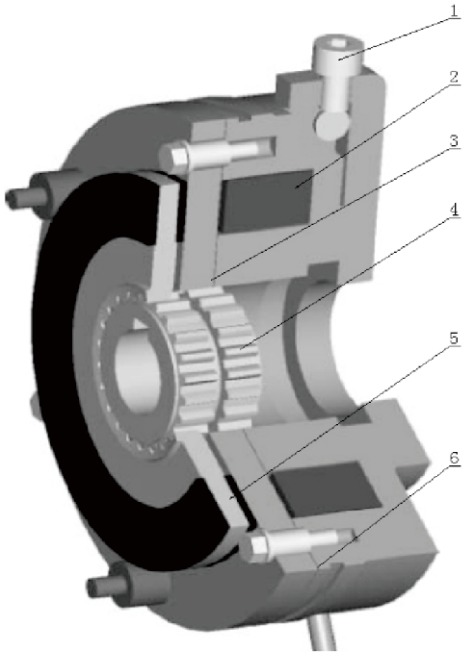


图11 / Chart 11

1.释放螺钉　2.制动器线圈　3.压力盘　4.花键套　5.摩擦盘　6 工作间隙

Release screws、Coil of brake、Pressure plate、Spline sleeve、Disc friction、Working clearance

6.3 性能要求
Performance Requirements

电磁式制动器的外壳防护等级为IP54，制动器的绝缘等级为F级；其绕组温升不得超过105K(电阻法)。

・电磁式制动器绕组对地应承受历时1分钟的耐压试验而不击穿，其试验频率为50Hz，波形为正弦波，电压的有效值为1000V+2U_{No}

・电磁式制动器的绕组对机壳的绝缘电阻在常温下应不低于200MΩ

电磁式制动器的环境使用温度：

・电磁式制动器的环境使用温度：−20℃到+40℃之间，湿度≤90%；

・整流块环境使用温度：−20℃到+70℃。

电磁式制动器在常规的使用环境下制动器运行噪音应不大于75dB,其测试方案按照GB10069.1规定。

电磁式制动器寿命100万次，JD132以上（包含JD132）制动频率不超过24次/分钟；寿命间隙为20万次。JD160以上（包含JD162）制动频率不超过10次/分钟；寿命间隙10万次。

Electromagnetic brake shell protection class is IP54, the insulation level of the brake is F; The winding temperature rise should not exceed 105K(Electrical resistance).

・The electromagnetic brake winding should withstand 1 minutes of pressure test without breakdown, The test frequency is 50HZ, waveforms is sine wave, voltage effective value is 1000V+2u.

・The insulation resistance of the winding of the electromagnetic brake should not be less than 200M.

Ambient temperature of electromagnetic brake:

・Temperature:−20℃ to +40℃, Humidity≤90%.

・Rectifier block ambient temperature:−20 to +70.

The noise of electromagnetic brake should not be more than 75dB under the normal operating environment, in accordance with the provisions of GB10069.

Electromagnetic brake life 1 million times, JD132 above (including JD132) braking frequency of not more than 24 times / minute, Life gap is 200 thousand times. JD160 above (including JD162) braking frequency is not more than 10 times / minute; Life gap 100 thousand times.

标准电磁式制动器电机制动响应时间满足表21规定。

The brake response time of the standard electromagnetic brake motor meets the requirements of Table 21.

表21 /Table 21

基座号 Frame Size	制动时间（直流侧断电额定间隙下）ms Braking time (DC side power rated gap)/ms	制动时间（交流侧断电额定间隙下）ms Braking time (AC side power rated gap)/ms
JD.63../BE	≤15	≤60
JD.71../BE	≤25	≤150
JD.80../BE	≤40	≤170
JD.90../100../BE	≤90	≤230
JD.112../132../BE	≤100	≤300
JD.160../BE	≤150	≤500
JD.180../BE	≤150	≤900
JD.200../225../BE	≤150	≤1000

标准电磁式制动电机参数

Standard electromagnetic brake motor parameters

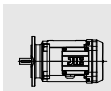
标准制动电机制动力矩参照表22，表23，表24:

Standard brake motor braking torque Refer to Table 22, Table 23, Table 24

表22 /Table 22

2P-2(n=3000rpm)电机制动力矩参数
2P-2(n=3000rpm)Motor braking torque parameters

功率/Power (kW)	基座号（3级能效） Frame Size (Level 3 energy efficiency) GB18613-2012	基座号（2级能效） Frame Size (Level 2 energy efficiency) GB18613-2012	基座号（1级能效） Frame Size (Level 1 energy efficiency) GB18613-2012	制动器力矩 Brake torque (N.m)
0.18	JDS63S./BE	/	/	1.8
0.25	JDS63M./BE	/	/	2.5
0.37	JDS63L./BE	/	/	3.5
0.55	JDS71M./BE	/	/	3.5
0.75	JDS80S./BE	JDE80M./BE	JDP80M./BE	5
1.1	JDS80M./BE	JDE90M./BE	JDP90M./BE	JDS80M./BE:7
				JDE90M./BE:10
				JDP90M./BE:7
1.5	JDS90M./BE	JDE90L./BE	JDP90L./BE	10
2.2	JDS 90L./BE	JDE100M./BE	JDP100M./BE	14
3	JDS 100M./BE	JDE 100L./BE	JDP112M./BE	20
4	JDS 112M./BE	JDE 112M./BE	JDP132S./BE	28
5.5	JDS 132S./BE	JDE 132S./BE	JDP132M./BE	40
7.5	JDS 132M./BE	JDE 132M./BE	/	55
9.2	JDS 160S./BE	/	/	80



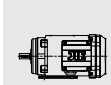
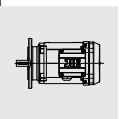


表23 /Table 23

2P-4(n=1500rpm)电机制动力矩参数
2P-4(n=1500rpm)Motor braking torque parameters

功率/Power (kW)	基座号（3级能效）Frame number (Level 3 energy efficiency) GB18613-2012	基座号（2级能效）Frame number (Level 2 energy efficiency) GB18613-2012	基座号（1级能效）Frame number (Level 1 energy efficiency) GB18613-2012	制动器力矩 Brake torque (N.m)
0.12	JDS63S./BE	/	/	1.8
0.18	JDS63M./BE	/	/	2.5
0.25	JDS63L./BE	/	/	3.5
0.37	JDS71S./BE	/	/	5
0.55	JDS71M./BE	/	/	10
0.75	JDS80S./BE	JDE80M./BE	JDP90M./BE	10
1.1	JDS80M./BE	JDE90M./BE	JDP90L./BE	14
1.5	JDS90M./BE	JDE90L./BE	JDP100M./BE	20
2.2	JDS90L./BE	JDE100M./BE	JDP100L./BE	JDP100L./BE:28
				JDE100M./BE:28
				JDS90L./BE:40
3	JDS100M./BE	JDE112M./BE	JDP132S./BE	40
4	JDS112M./BE	JDE132S./BE	JDP132M./BE	55
5.5	JDS132S./BE	JDE132M./BE	JDP160S./BE	80
7.5	JDS132M./BE	JDE160S./BE	JDP160M./BE	110
9.2	JDS160S./BE	JDE160M./BE	JDP180S./BE	150
11	JDS160M./BE	JDE180S./BE	JDP180M./BE	150
15	JDS180S./BE	JDE180M./BE	JDP180L./BE	200
18.5	JDS180M./BE	JDE180L./BE	JDP200M./BE	300
22	JDS180L./BE	/	JDP200L./BE	300
30	JDS200L./BE	JDE200L./BE	JDP200L./BE	400
37	JDS225S./BE	JDE225S./BE	JDP225S./BE	500
45	JDS225M./BE	JDE225M./BE	JDP225M./BE	600



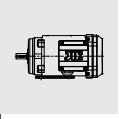


表24 /Table 24

2P-6(n=1000rpm)电机制动力矩参数
2P-6(n=1000rpm)Motor braking torque parameters

功率/Power (kW)	基座号（3级能效） Frame Size (Level 3 energy efficiency) GB18613-2012	基座号（2级能效） Frame Size (Level 2 energy efficiency) GB18613-2012	基座号（1级能效） Frame Size (Level 1 energy efficiency) GB18613-2012	制动器力矩 Brake torque (N.m)
0.09	JDS63S./BE	/	/	2.5
0.12	JDS63M./BE	/	/	3.2
0.18	JDS63L./BE	/	/	3.2
0.25	JDS71S./BE	/	/	5
0.37	JDS71M./BE	/	/	10
0.55	JDS80S./BE	/	/	14
0.75	JDS80M./BE	JDE90L./BE	JDP90L./BE	20
1.1	JDS90L./BE	JDE100M./BE	JDP100L./BE	28
1.5	JDS100M./BE	JDE100L./BE	JDP112M./BE	40
2.2	JDS100L./BE	JDE112M./BE	JDP132S./BE	55
3	JDS112M./BE	JDE132S./BE	JDP132M./BE	80
4	JDS132S./BE	JDE132M./BE	JDP160M./BE	80
5.5	JDS160S./BE	JDE160M./BE	/	110
7.5	JDS160M./BE	/	/	150

6.4 控制系统原理图
Control system schematic

电磁式制动器供电电源既可以单独提供，也可以由电机接线端子供电。

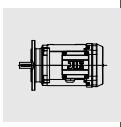
只有单速的电机，其制动器控制系统才可以电机供电系统中引线。为方便客户使用，JIE公司在电机出厂时已将制动器控制电源接好，制动器电源直接从电机接线柱上引取，当电机得电时电机运转，制动器也同时释放，当电机断电时电机停转，制动器也同时锁紧。具体接法见图12，图13。另外，如果制动器是从电机接线端子供电的，那么电机得残余电压会导致延时制动。

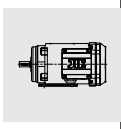
变极调速电机和变频器控制的电机，其制动控制器的供电电源必须单独供电。JIE公司出厂时均不接线，客户实际使用时接线具体接法见图14。

The power supply of the electromagnetic brake can be supplied separately, or can be supplied by the motor terminal. Only the motor has been factory brake control power supply is connected.JIE connect the brake control's power before the motors delivered as for the customer's convenience ,when the motor is energized when the motor operates, the brake releasing it at the same time, when the motor power when the motor stops, the brake also lock.The specific method is shown in Figure 12, figure 13, in addition, if the brake is from the motor terminal power supply, then the motor residual voltage will lead to delay braking.

The motor of the variable speed motor and the inverter control, the power supply of the brake controller must be supplied separately. JIE company does not connect the factory, the actual use of the customer when the connection is shown in Figure 14.

制动器快速制动
Quick brake





通过改变整流块的接线方式，可使制动器变为快速制动运行。具体接法见图12，图13。

备注：客户未提出快速制动要求，JIE公司按照皮套制动作作为默认的标准接线方式；客户在实际使用快速制动时，客户需将普通制动拆除后，按照快速制动接线方法接线。

客户未提出变频要求，JIE公司按照单速电机作为默认的标准接线方式，客户需变频器供电时，客户需将标准接线拆除后，按照图13接线。

By changing the connection mode of the rectifier block, the brake can be changed into a fast braking operation. Refer to table 12, table 13.

Note: When the customer does not make a quick braking requirement,JIE use the leather brake as the default action of the standard wiring; customers use of fast braking in the actual , customers need to dismantle the ordinary brake.

If customers do not require for of frequency conversion, JIE company use a single speed motor as the default standard wiring mode, customers need inverter power supply, customers need to remove the standard wiring,and connect wiring in accordance with figure 13 .

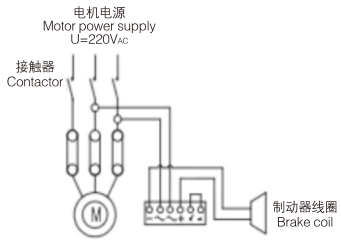
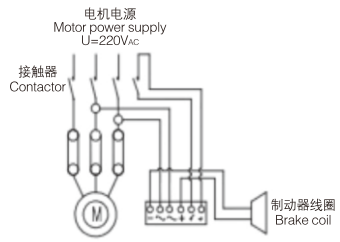
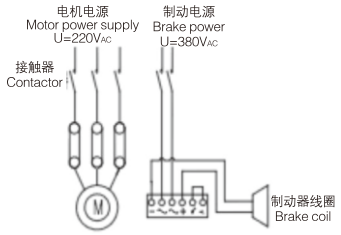
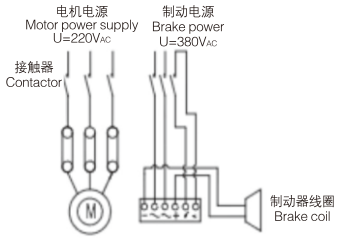
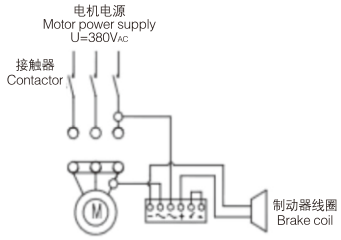
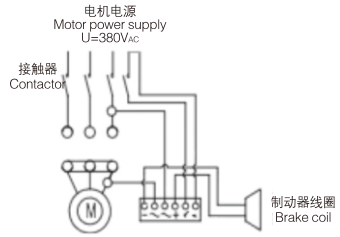
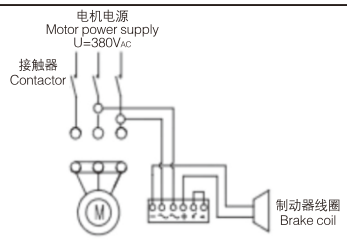
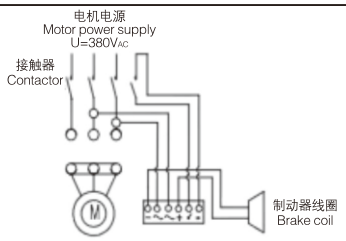
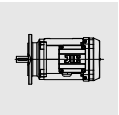
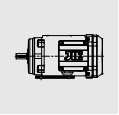
编号 Series number	单速电机电压及接线 Single – speed motor voltage and wiring	制动器电压 Brake voltage	制动器接法/Brake connection	
			普通制动/Ordinary brake	快速制动/Fast brake
1	220V△	220V		
2		380V		
3	220V Y	220V		
4		380V		

图12 / Chart 12





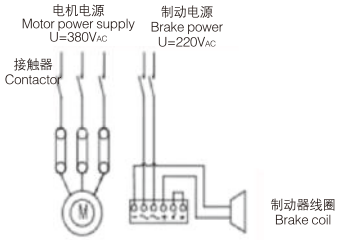
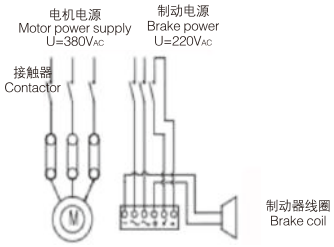
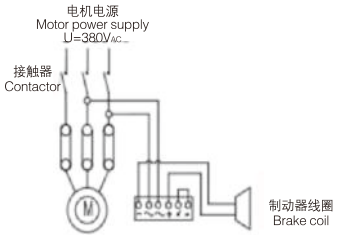
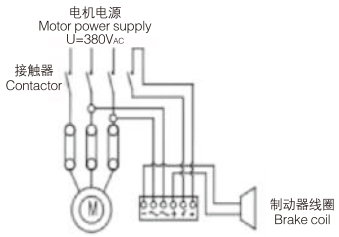
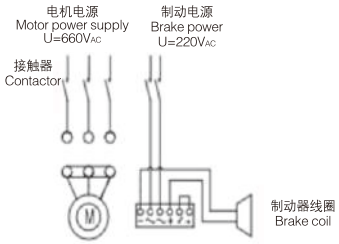
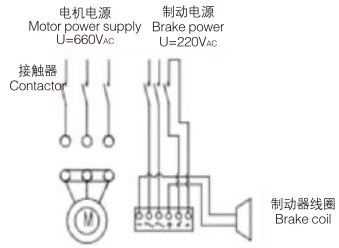
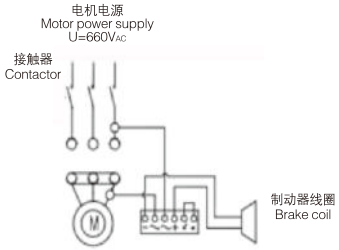
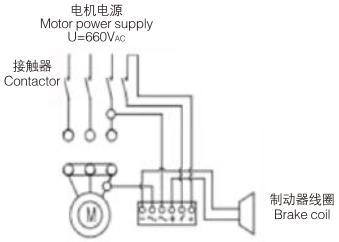
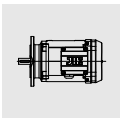
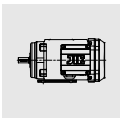
编号 Series number	单速电机电压及接线 Single – speed motor voltage and wiring	制动器电压 Brake voltage	制动器接法/Brake connection	
			普通制动/Ordinary brake	快速制动/Fast brake
1	380V△	220V		
2		380V		
3	660V Y	220V		
4		380V		

图13 / Chart 13





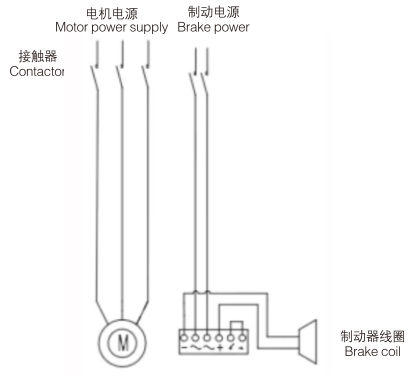
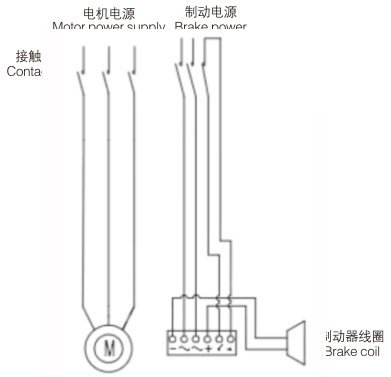
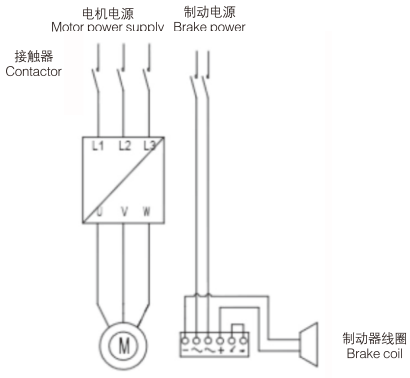
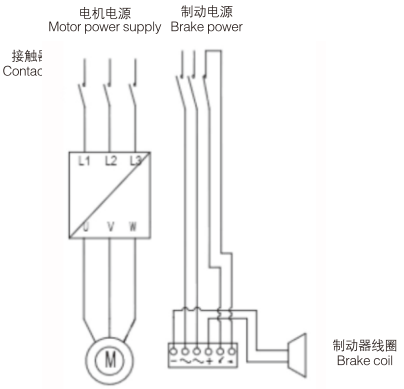
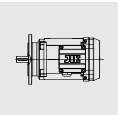
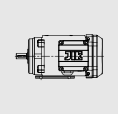
	普通制动/Ordinary brake	快速制动/Fast brake
变极调速电机 Pole changing speed regulating motor		
变频调速电机 Frequency conversion motor		

图14 / Chart 14



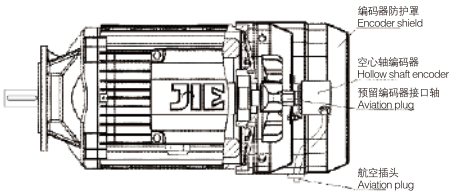


7. 编码器
Encoder

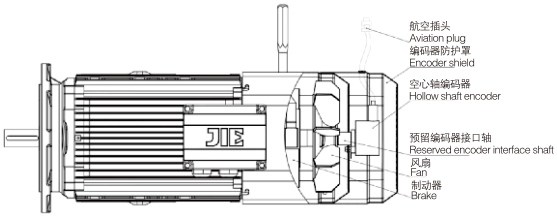
我公司可根据需要为客户提供带编码器电机，编码器型号由客户指定。我公司提供的编码器电机结构分为以下六种。如有定制，另咨询我司。

Our company can provide encoder motor to customers as requirement according to need, the encoder model is specified by the customer. JIE provide the following six kinds of the encoder motor.please refer to JIE for any customization.

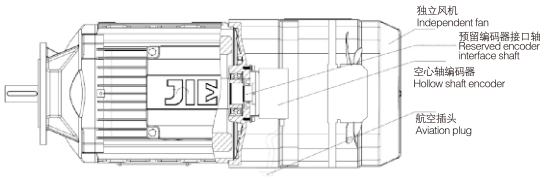
JD../ES 空心轴与标准电机连接结构
JD../ES Hollow shaft and standard motor connection structure



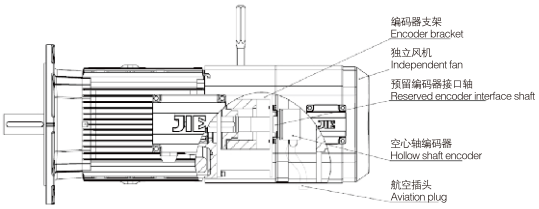
JD../BE/ES 空心轴与带制动电机连接结构
JD../BE/ES Hollow shaft with brake motor connection structure



JD../V/ES 空心轴与带风机电机连接结构
JD../V/ES Hollow shaft and belt motor connection structure

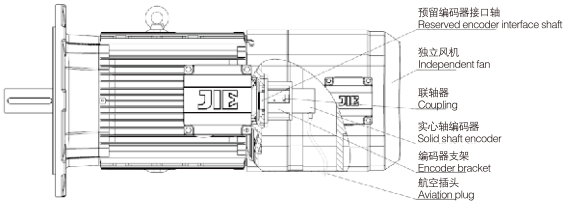


JD../BE/V/ES 空心轴与带制动及风机电机连接结构
JD../BE/V/ES Hollow shaft with brake and fan motor connection structure



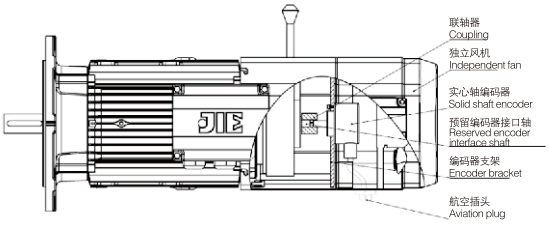
JD../V/EV 实心轴与带风机连接结构

JD../V/EV Solid shaft and belt connection structure

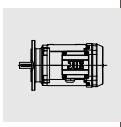


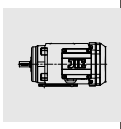
JD../BE/V/EV 实心轴与带风机电机连接结构

JD../BE/V/EV Solid shaft and belt motor connection structure



8. 强冷风扇
Forced Cooling fan





代号
Code

/V标准设计
/V Standard design

描述
Description

强冷风扇用于确保电机在不同转速时的冷却。即电机可以在低速时满载运行而不会产生电机过热风险。带强冷风扇时原普通PVC风扇将从电机上拆除。强冷风扇的长度取决于不同的电机附件选项如制动器或编码器。与以前一样罩子上也允许开孔如制动器手动释放孔等。

Forced cooling fan is used to ensure the cooling of the motor at different speeds. That is, the motor can run at full speed without the risk of overheating.
The original PVC fan will be removed from the motor when the forced cooling fan is equipped .The length of the forced cooling fan depends on the different motor attachment options, such as brakes or encoders. Cover as before and also allow openings such as manual brake release hole.

/V

根据需要电机可以安装强冷风扇。工频连续运行工况时不需要加强冷风扇。JIE建议下述情况时采用强冷风扇：

- 高启动频率时（启动次数≥5次/h）
- 电机带高惯量飞轮Z（飞轮风扇）
- 调速范围在5～35Hz之间
- 变频调速时调速范围≥1：20
- 变频调速时在低速甚至是零速时需输出额定力矩

As needed, the motor can be installed with a forced cooling fan. No need to install the forced cooling fan when continuous operation condition. JIE suggest in the following situations :

- High startup frequency
- Motor with high inertia flywheel Z (flywheel fan)
- Speed range from 5 to 35HZ
- Frequency control speed range≥1:20
- When the speeds is low or even zero speed, the output torque is required

下图为典型的动态变频控制速度–转矩特性图
The following is a typical dynamic frequency control speed– The torque characteristic diagram

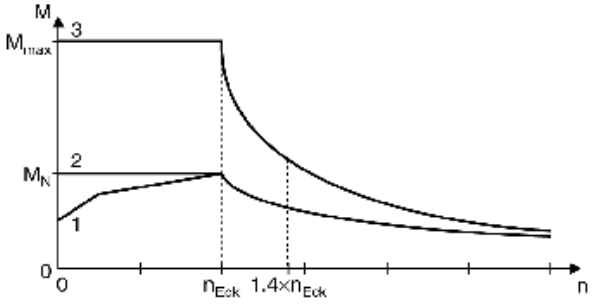


图15 / Chart 15

M_N=电机额定扭矩/Rated torque
M_{max}=电机最大扭矩/Maximum torque
n_{base}=电机额定转速/Rated speed

1=带自冷风扇/Self cooling fan
2=带强冷风扇/Forced cooling fan
3=最大扭矩/Maximum torque

当转速位于0–n_{base}时负载扭矩位于曲线1时以上需加强冷风扇否则电机将过热
When the speed located at 0–n_{base}, the load torque located in the curve for more than 1 hours, at this time, in order to prevent overheating of the motor, it will be need to install a forst cooling fan.

与编码器组合
Encoder combination

强冷风扇能与所有编码器组合使用，编码器信息请见第7页。请注意整体尺寸将可能变得更长。
Forced cooling fan can be used in combination with all encoders, Encoder information please see page (7). Note that the overall size may be longer

强冷风扇技术参数
Technical datas of forced cooling fan

三相,U=380V$_{AC}$,f=50Hz
Three phase U=380V$_{AC}$,f=50Hz

表25 /Table 25

强冷风机 Forced cooling fan / 对应电机机座号 The corresponding motor frame size	功率 Power (W)	风压 Wind pressure (Pa)	电流 Current (A)	转速 Rotate speed (rpm)	风量 Blowing rate (m^3/h)
JD63	25	42	0.12	2800	98
JD63/BE					
JD71..	25	42	0.12	2800	98
JD71../BE					
JD80..	30	42	0.13	2800	98
JD80../BE					
JD90..	42	82	0.18	2800	265
JD90.../BE					
JD100..	52	82	0.18	2800	265
JD100../BE					
JD112/132	60	110	0.2	2800	306
JD112/132.../BE					
JD160	80	110	0.21	2800	485
JD160/BE					
JD180	100	130	0.32	1400	660
JD180/BE					
JD200	150	65	0.6	1350	1679
JD200/BE					
JD225	200	70	0.6	1350	1786
JD225/BE					

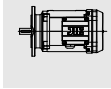
单相,U=220V$_{AC}$,f=50Hz
Single phase U=220V$_{AC}$,f=50Hz

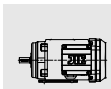
表26 /Table 26

强冷风机 Forced cooling fan / 对应电机机座号 The corresponding motor frame size	功率 Power (W)	风压 Wind pressure (Pa)	电流 Current (A)	转速 Rotate speed (rpm)	风量 Blowing rate (m^3/h)
JD63	25	42	0.16	2800	98
JD63/BE					
JD71..	25	42	0.16	2800	98
JD71../BE					
JD80..	30	42	0.18	2800	98
JD80../BE					
JD90..	42	82	0.3	2800	265
JD90.../BE					
JD100..	52	82	0.35	2800	265
JD100../BE					
JD112/132	60	110	0.38	2800	306
JD112/132.../BE					
JD160	80	110	0.26	2800	485
JD160/BE					
JD180	130	130	0.7	1400	660
JD180/BE					
JD200	160	65	1	1350	1679
JD200/BE					
JD225	220	70	1	1350	1786
JD225/BE					

三相,U=380V_{AC},f=60Hz
Three phase U=380V_{AC},f=60Hz

表27 /Table 27





强冷风机 Forced cooling fan / 对应电机机座号 The corresponding motor frame size	功率 Power (W)	风压 Wind pressure (Pa)	电流 Current (A)	转速 Rotate speed (rpm)	风量 Blowing rate (m^3/h)
JD63 / JD63/BE	30	45	0.21	3000	108
JD71.. / JD71../BE	30	45	0.21	3000	108
JD80.. / JD80../BE	35	45	0.22	3000	108
JD90.. / JD90.../BE	55	88	0.25	3000	290
JD100.. / JD100../BE	60	88	0.26	3000	290
JD112/132 / JD112/132.../BE	75	120	0.3	3000	335
JD160 / JD160/BE	90	120	0.4	3000	530
JD180 / JD180/BE	120	130	0.28	1680	660
JD200 / JD200/BE	200	65	0.48	1620	1679
JD225 / JD225/BE	230	70	0.52	1620	1786

单相,U=220V_{AC},f=60Hz
Single phase U=220V_{AC},f=60Hz

表28 /Table 28

强冷风机 Forced cooling fan / 对应电机机座号 The corresponding motor frame size	功率 Power (W)	风压 Wind pressure (Pa)	电流 Current (A)	转速 Rotate speed (rpm)	风量 Blowing rate (m^3/h)
JD63 / JD63/BE	30	45	0.16	3000	108
JD71.. / JD71../BE	30	45	0.16	3000	108
JD80.. / JD80../BE	35	45	0.21	3000	108
JD90.. / JD90.../BE	55	88	0.32	3000	290
JD100.. / JD100../BE	60	88	0.35	3000	290
JD112/132 / JD112/132.../BE	75	120	0.45	3000	335
JD160 / JD160/BE	90	120	0.6	300	530
JD180 / JD180/BE	155	130	0.4	1680	660
JD200 / JD200/BE	220	65	0.84	1620	1679
JD225 / JD225/BE	250	70	0.92	1620	1786

9. 其他附件
Other Accessories

高惯量飞轮
High inertia flywheel

电机安装高惯量飞轮Z（飞轮风扇）从而实现电机在主控制下平滑地起制动。
高惯量飞轮Z使电机转动惯量增加JZ。
制动和非制动电机均可安装高惯量飞轮Z。
The motor is installed with high inertia flywheel Z (flywheel fan) so as to realize the smooth braking of the motor under the main control.
High inertia flywheel Z will increase the motor inertia JZ.
High inertia flywheel Z can be installed in both braking and non braking motors.

重要注意事项
- 计算起动频率时，空载许用频率需乘以0.8，或是加强冷风扇。
- 电机转动惯量Jges=Jmot+JZ
- 不允许反接制动或反向冲击制动。
- 不允许用于振动级别B的工况。

Important Notices
- When calculating the starting frequency, No–load allowable frequency is multiplied by 0.8 or install a forced cooling fan
- Motor moment of inertia jges=jmot+JZ
- Do not allow reverse or reverse impact braking
- Do not allow Vibration level B

表29 /Table 29

电机规格 Motor specifications	J_Z [10^{-4}kgm^2]	J_{mot} [10^{-4}kgm^2]	$J_{mot}+J_Z$ [10^{-4}kgm^2]	质量/Quality [kg]
JD.71S4	21.3	4.9	26.2	1.3
JD.71M4		7.1	28.4	
JD.80S4	37.9	14.9	52.8	1.8
JD.80M4		21.5	59.4	
JD.90M4	100	35.5	135.5	3.4
JD.90L4		43.5	143.5	
JD.100M4	135	56	191	3.5
JD.112M4	200	146	346	4.5
JD.132S4		190	390	
JD.132M4	300	255	555	6.4
JD.160S4	500	370	870	7.3
JD.160M4		450	950	

防护罩
Protective Cowl

代号
Code name /C

描述
Description 防护罩用于防止雨水进入风扇罩。主要应用于垂直安装位置时。
The protective cowl is used for preventing rain water from entering the fan cowl. Mainly used in vertical installation position.

/C 当电机出轴垂直向下安装时，液体和固体异物很容易进到电机风扇罩内，JIE提供保护罩可以对电机很好的加以保护。
制动电机出轴垂直向下安装时，必须订购保护罩C，同样在户外的出轴向下的电机必须安装保护罩C。
When the motor is installed vertically down the shaft, the liquid and solid foreign body is easy to enter into the motor fan cowl, and the JIE provides a protective cowl to protect the motor.
When the motor shaft is installed vertically downwards, it is necessary to order the protective cover C, and the motor must be fitted with a protective cowl C.

2WE双轴伸电机
2WE Biaxial Extension motor

我公司可根据需要为客户提供2WE双轴伸电机，具体结构尺寸如下图

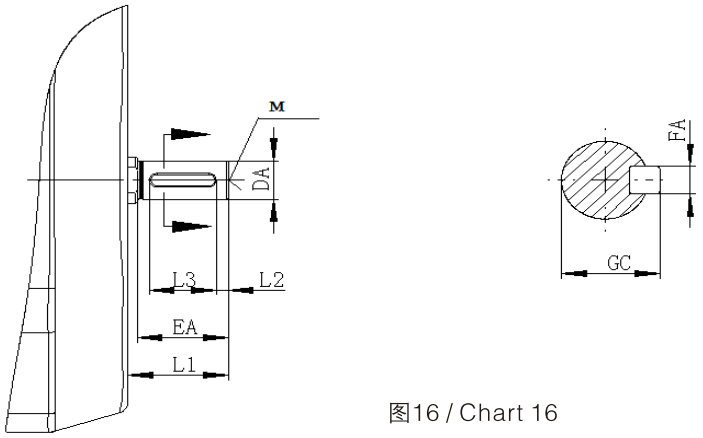


图16 / Chart 16

表30 /Table 30

基座号 Frame Size	DA	FA	GC	EA	L1	L2	L3	M
JD.63/71../2WE	11	4	12.5	23	25	3.5	16	M4
JD.80../90../100../2WE	14	5	16	30	32	4	22	M5
JD.112../132../2WE	19	6	21.5	40	43.5	4	32	M6
JD.160../2WE	28	8	31	60	64	5	50	M10
JD.180../2WE	38	10	41	80	84	5	70	M12
JD.200..–225../2WE	48	14	51.5	110	115	5	100	M16

无风扇设计
Fanless Design

代号 Code name /U

描述 Description /U设计 /U Design

对于/U电机B端端盖封闭无风扇和无风罩。可以防止脏物、水和粉尘等进入电机。此电机转子特殊。对于带制动电机转子轴不是在轴承后截断而是延伸到花键套配合尺寸后截断。在制动器线圈后端采用封盖密封。

电机/制动电机有2种不带风扇的冷却方式，仅靠对流冷却电机/制动电机必须在减小载荷或断续工作制时使用。

For the /U motor B end cover closes without fan and cover .It can prevent dirt, water and dust into the machine. This motor has special rotors. The motor rotor shaft with brake is not cut off behind the bearing, but extends to the fit size of spline . Use end cover seals behind the brake coil.

Motor/Break motor has two cooling ways without fans, the motor/break motor can rely on the convection for cooling only when reduce work load or intermittent brake.

/U 自冷电机功率通常为风扇冷却电机的一半，如有问题请与JIE联系。

The power of the non–ventilated motor is usually half of cooling fan motor, if there is any question, please contact JIE.

带恒温器保护装置
With thermostat protection device

代号
Code /TH

描述
Description

电机热保护用于防止电机过热而引起的电机损坏可选择监测两个温度级别的155（F）和180（H）。
TH为三个一组设计，即电机每相均有一只NC触电的温度调节开关并串联在一起。
当温度达到额定值时，TH双金属开关组合断开并采用接触器或反馈系统停止电机。当电机开始冷却时，在额定温度时TH不会立即恢复闭合。但是当温度下降到额定温度的40K（重设温度RST）以下时，TH重新闭合。

The motor thermal protection can prevent motor from overheating damage and choose to monitor the two temperature levels of 155 (F) and 180 (H).
Three TH for one group, each phase has a NC electric shock temperature control switch and in series together.
When the temperature reaches rating, TH bimetallic switch combination will disconnect and uses the contactor or feedback system to stop the motor. When the motor begins to cool down, TH will not restore closure immediately with the rated temperature. But when the temperature decreases to the rated temperature of 40 k (reset temperature ,RST), the TH closes again.

PT100电机热保护
Motor thermal protection

代号
Code /PT

描述
Description

PT热保护装置可连续检测电机温度，并可在变频器或控制器内进行进一步处理。与KTY半导体传感器不用，PT100采用铂金金属传感器，具有接近线性的特性曲线，并有更高的精度。
/PT附件不能替代标准的电机保护TF或TH。
仅当变频器具有电机热模型功能时，采用变频器+/PT组合具有电机热保护的功能。

- 1 表示定子内预埋1只传感器
- 3 表示定子内预埋3只传感器（每相1只）

PT thermal protection device can continuously measure the motor temperature, and can be within the inverter or controller for further processing. Unlike KTY semiconductor sensor, PT100 is made by platinum metal, it has the nearly linear characteristic curve, and has a higher precision.
/PT attachment cannot replace the standard motor protection TF or TH.
Only when the inverter has the motor thermal model function, adopting frequency converter + / PT has the motor thermal protection function.

- Mean to embed one sensor in the stator.
- Mean to embed 3 sensors in the stator(one piece for one phase).

/PT

PT100温度传感器可连续检测电机温度。根据需要可旋转1只或3只PT100传感器。
Pt100 temperature sensor can test motor temperature continuously. According to the need that it can rotate 1 or 3 pcs 100 pt100 sensors.

表31 /Table 31

技术参数 Technical Data	PT100
联接 Connect	红/白 Red / White
20-25℃ 每个PT100的阻值 The resistance of each PT100	107Ω＜R＜110Ω
检测电流 The test current	＜3mA

PT100特征曲线
PT100 characteristic curve

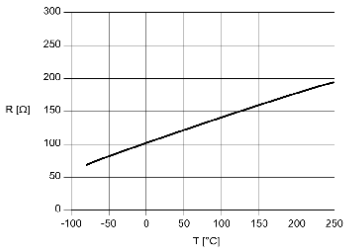
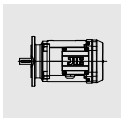
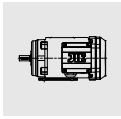


图17 / Chart 17





当绕组温度超过允许温度时，温度金属开关断开可连接到驱动检测回路中。
When the winding temperature exceed the permitted temperature, the metal temperature switch will disconnect and can be connected in the drive detection circuit.

表32 /Table 32

	AC V	DC V	
电压VoltageU [V]	250	60	24
电流 (cos φ = 1.0) [A] Electric current	2.5	1.0	1.6
电流 (cos φ = 0.6) [A] Electric current	1.6	-	-
接触电阻最大1ohm为DC5V/1mA The maximum contact resistance 1ohm is DC5V/1mA			

双金属开关“NC”的开合条件

The conditions of bimetallic switch "NC" opening and closing

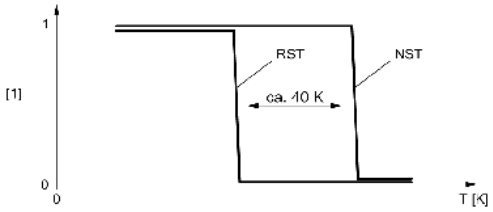


图18 / Chart 18

RST 重设温度/Reset temperature

NST 额定开关温度/The rated temperature switch

10. 电机尺寸
Dimension of motor

JD.系列交流电机/制动电机的尺寸表
JD series AC motor / brake motor dimensions table

关于尺寸表的注意事项
Notes on the dimensions table

请遵循以下有关4极JD交流(制动)电机的尺寸表的注意事项

- 电机尾部至少余留风扇罩半径的距离以避免阻碍通风.
- 对于制动电机需为拆卸风扇罩预留空间(风扇罩直径).
- 制动器手动释放有多种角度可选,如下图所示.

可选四个角度0° 、90° 、180° 或270° 。

Please follow the notices about the size of the 4 class JD AC motor

- Motor rear should keep a space more than the radius of the fan cover as to avoid hindering the ventilation.
- For brake motors, space is required to remove the fan cowl(diamter of the fan cover).
- Brake manual release has a variety of angles, as shown below. Four Options available.

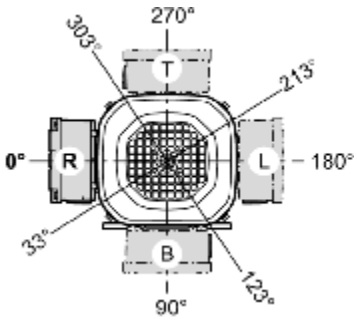


图19 / Chart 19

制动器手动释放默认安装角度为相对于电机接线盒270° 。若未定义则默认手动释放位置随电机接线盒旋转。手动释放可能会以90° 为单位旋转。若带强冷风扇（/V），则手动释放位置会受到强冷风扇的影响。

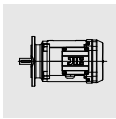
Brake manual release angle for the motor junction box is installed by default to 270° . If don't define default manual release lever position will be rotating with the motor junction box. Manual release may rotate by 90° . With a forced cooling fan(/V), the manual release position will be affected.

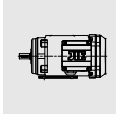
制动电机带强冷风扇时
Brake motor with forced cooling fan

表33 /Table 33

电机基座号 Motor Frame size	对于不同接线盒角度所允许的手动释放角度 Manual release angle allowed for different junction box angles			
	0° (R)	90° (B)	180° (L)	270° (T)
63..BE../V	90° ,180° ,270°	90° ,180° ,270°	90° ,180° ,270°	90° ,180° ,270°
71..BE../V	0° ,90° 180° ,270°	0° ,90° 180° ,270°	0° ,90° 180° ,270°	0° ,90° 180° ,270°
80..BE../V				
90..BE../V				
100..BE../V				
112..BE../V				
132..BE../V				
160..BE../V				
180..BE../V				
200..BE../V				
225..BE../V				

公差
Tolerance





中心高
Center height

下列公差应用于所给出的尺寸表
The following tolerances applied to the size of the given table

h≤250mm → −0.5mm

h＞250mm → −1mm

轴公差
The shaft tolerance

直径公差
The diameter tolerance

Ø ≤28mm → ISO j6

Ø ≤50mm → ISO k6

Ø ＞50mm → ISO m6

按照DIN332标准JD型中心孔
According to the type DIN332 standard JD center hole

Ø =7−10mm	→ M3	Ø ＞30−38mm	→ M12
Ø ＞10−13mm	→ M4	Ø ＞38−50mm	→ M16
Ø ＞13−16mm	→ M5	Ø ＞50−85mm	→ M20
Ø ＞16−21mm	→ M6	Ø ＞85−130mm	→ M24
Ø ＞21−24mm	→ M8	Ø ＞130mm	→ M30
Ø ＞24−30mm	→ M10		

键符合DIN6885标准(圆头平键)
Key DIN6885 standard (round head flat key)

法兰
Flange

止口公差
The seam allowance tolerance

Ø ≤230mm（法兰规格A120−A300）→ ISO j6

Ø ＞230mm（法兰规格A350−A660）→ ISO h6

每个型号的交流(制动)电机都有不同尺寸的法兰可选。每个型号的不同法兰尺寸见相应的尺寸表

Each type of AC motor has a different optional of the flange sizes. See the kinds of flange sizes for the appropiate size of each type.

起吊螺栓及吊耳
Lifting bolt and lug

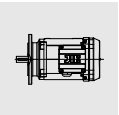
JD.100及以下的电机供货时不提供吊装工具。JD.112及以上电机配置可拆卸吊耳。
JD.100 and below the motor does not provide lifting tools. JD112 and above motor provide configuration.

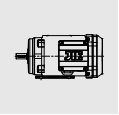
电机附件
Motor accessories

安装附件后电机尺寸可能改变请参考电机附件尺寸图纸
The dimension of the motor may be changed after fitting the attachment. Please refer to the drawing of the motor dimension.

特殊设计
Special design

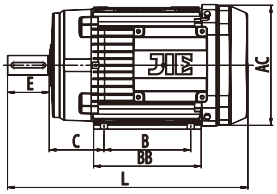
由于特殊设计或需要预留宽泛的附件接口接线盒尺寸可能与标准尺寸偏差很多。请留意JIE的订单确认。
Because of the special design or the need, the size may be a bit deviation from the standard size. Please pay attention to JIE's order confirmation.



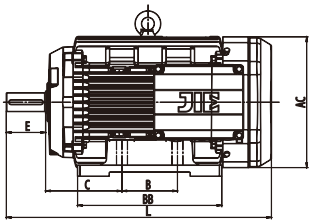


附录A
（规范性附录）
Appendix A
(normative appendix)

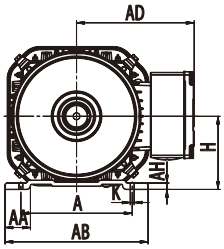
机座带底脚，不带法兰的电动机
With feet and without flange



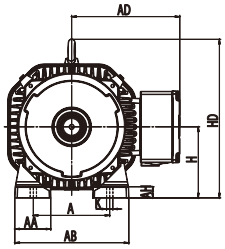
机座号/Frame Size:63-90



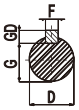
机座号/Frame Size:100-315



机座号/Frame Size:63-90



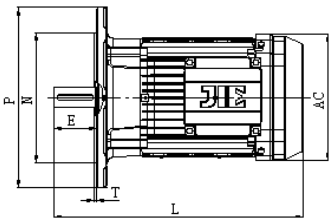
机座号/Frame Size:100-315



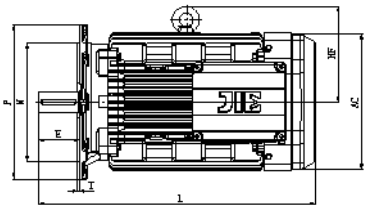
机座号 Frame Size JD.63..~315../B3	外形及安装尺寸/Overall and mounting dimensions(mm)															
	A	AA	AB	AC	AD	B	BB	C	D	E	F	G	H	HA	K	L
63S4 63M4 63L4	100	31	127	120	108	80	100	40	$\Phi 11j6^{+0.008}_{-0.003}$	23	4	8.5	63	4.5	7	218
71S4	112	30	130	135	127	90	115	45	$\Phi 14j6^{+0.008}_{-0.003}$	30	5	11	71	6	7	252
80S4 80M4	125	36	165	156	137	100	140	50	$\Phi 19j6^{+0.009}_{-0.004}$	40	6	15.5	80	6	10	312
90M4 90L4	140	32	180	177.5	148	125	155	56	$\Phi 24j6^{+0.009}_{-0.004}$	50	8	20	90	6	10	335
100M4	160	45	190	189	156	140	180	63	$\Phi 28j6^{+0.009}_{-0.004}$	60	8	24	100	6	12	405
112M4	190	46	220	221	171	140	208	70	$\Phi 28j6^{+0.009}_{-0.004}$	60	8	24	112	7.5	12	452
132S4	216	42	246	221	171	140	216	89	$\Phi 38k6^{+0.018}_{+0.002}$	80	10	33	132	12	12	472
132M4	216	42	246	221	171	178	218	89	$\Phi 38k6^{+0.018}_{+0.002}$	80	10	33	132	12	12	522
160S4	254	82	289	270.5	228	210	294	108	$\Phi 38k6^{+0.018}_{+0.002}$	80	12	37	160	25	14.5	570
160M4	254	82	289	270.5	228	210	294	108	$\Phi 42k6^{+0.018}_{+0.002}$	110	12	37	160	25	14.5	570
180S4	279	82	320	316	253	241	319	121	$\Phi 48k6^{+0.018}_{+0.002}$	110	14	42.5	180	33	14.5	633
180M4	279	82	320	316	253	279	319	121	$\Phi 48k6^{+0.018}_{+0.002}$	110	14	42.5	180	33	14.5	633
180L4 180LC4	279	82	320	316	253	279	319	121	$\Phi 48k6^{+0.018}_{+0.002}$	110	14	42.5	180	33	14.5	693
200L4	318	95	378	394	283	305	355	133	$\Phi 55m6^{+0.030}_{+0.011}$	110	16	49	200	28	18.5	759
225S4	356	115	413	394	283	286	371	149	$\Phi 60m6^{+0.030}_{+0.011}$	140	18	53	225	40	18.5	789
225M4	356	115	413	394	283	311	371	149	$\Phi 60m6^{+0.030}_{+0.011}$	140	18	53	225	40	18.5	839

附录B
（规范性附录）
Appendix B
(Bormative Appendix)

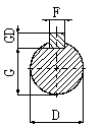
机座不带底脚，带法兰的电动机
Without feet and with flange

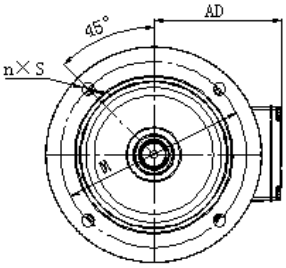


机座号/Frame Size:63-90

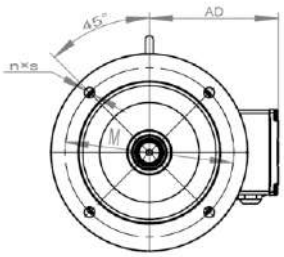


机座号/Frame Size:100-315

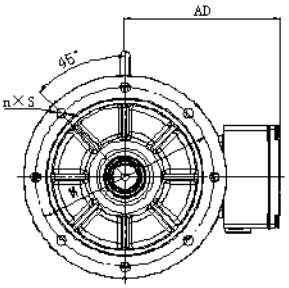




机座号/Frame Size:63-90

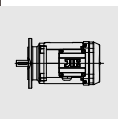


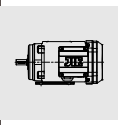
机座号/Frame Size:100-200



机座号/Frame Size:225-315

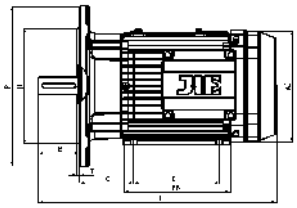
机座号 Frame Size JD.63..~315../B5	法兰号 The flange	外形及安装尺寸/Overall and mounting dimensions(mm)													
		AC	AD	D	E	F	G	HF	M	N	P	R	S	T	L
63S4	FF115	120	108	$\Phi 11j6^{+0.008}_{-0.003}$	23	4	8.5	–	Φ115	$\Phi 95j6^{0.013}_{-0.009}$	Φ140		4×Φ9	3	218
63M4															
63L4															
71S4	FF130	135	127	$\Phi 14j6^{+0.008}_{-0.003}$	30	5	11		Φ130	$\Phi 110j6^{+0.013}_{-0.009}$	Φ160		4×Φ12	3.5	252
80S4 80M4	FF165	156	137	$\Phi 19j6^{+0.009}_{-0.004}$	40	6	15.5		Φ165	$\Phi 130j6^{+0.014}_{-0.011}$	Φ200		4×Φ12	3.5	312
90M4 90L4	FF165	177.5	148	$\Phi 24j6^{+0.009}_{-0.004}$	50	8	20		Φ165	$\Phi 130j6^{+0.014}_{-0.011}$	Φ200		4×Φ12	3.5	335
100M4	FF215	189	156	$\Phi 28j6^{+0.009}_{-0.004}$	60	8	24	131	Φ215	$\Phi 180j6^{+0.014}_{-0.011}$	Φ250		4×Φ14.5	4	405
112M4	FF215	221	171	$\Phi 28j6^{+0.009}_{-0.004}$	60	8	24	147	Φ215	$\Phi 180j6^{+0.014}_{-0.011}$	Φ250		4×Φ14.5	4	452
132S4	FF265	221	171	$\Phi 38j6^{+0.009}_{-0.004}$	80	10	33		Φ265	$\Phi 230j6^{+0.016}_{-0.013}$	Φ300		4×Φ14.5	4	472
132M4	FF265	221	171	$\Phi 38k6^{+0.018}_{+0.002}$	80	10	33		Φ265	$\Phi 230j6^{+0.014}_{-0.011}$	Φ300		4×Φ14.5	4	522
160S4	FF300	270.5	228	$\Phi 38k6^{+0.018}_{+0.002}$	80	12	37	190	Φ300	$\Phi 250j6^{+0.016}_{-0.013}$	Φ350		4×Φ14.5	5	540
160M4	FF300	270.5	228	$\Phi 42k6^{+0.018}_{+0.002}$	110	12	37		Φ300	$\Phi 250j6^{+0.016}_{-0.013}$	Φ350		4×Φ14.5	5	570
180S4	FF300	316	253	$\Phi 48n6^{+0.033}_{+0.017}$	110	14	42.5	212	Φ300	$\Phi 250j6^{+0.016}_{-0.013}$	Φ350		4×Φ18.5	5	633
180M4	FF300	316	253	$\Phi 48k6^{+0.018}_{+0.002}$	110	14	42.5		Φ300	$\Phi 250j6^{+0.016}_{-0.013}$	Φ350		4×Φ18.5	5	633
180L4 180LC4	FF300	316	253	$\Phi 48k6^{+0.018}_{+0.002}$	110	14	42.5		Φ300	$\Phi 250j6^{+0.016}_{-0.013}$	Φ350		4×Φ18.5	5	693
200L4	FF350	394	283	$\Phi 55m6^{+0.03}_{+0.011}$	110	16	49	262	Φ350	$\Phi 300h6^{0}_{-0.032}$	Φ400		4×Φ18.5	5	759
225S4	FF400	394	283	$\Phi 60m6^{+0.03}_{+0.011}$	140	18	53	262	Φ400	$\Phi 350h6^{0}_{-0.036}$	Φ450	0	8×Φ18.5	5	789
225M4	FF400	394	289	$\Phi 60m6^{+0.03}_{+0.011}$	140	18	53		Φ400	$\Phi 350h6^{0}_{-0.036}$	Φ450		8×Φ18.5	5	839



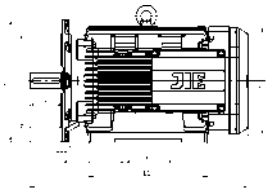


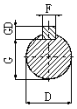
附录C
（规范性附录）
Appendix C
(normative appendix)

机座带底脚带法兰的电动机
With feet and flange

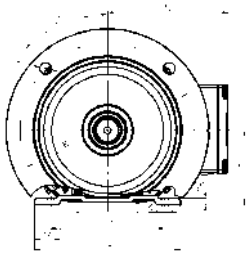


机座号/Frame Size:63-90

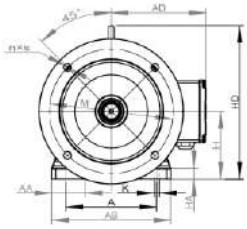




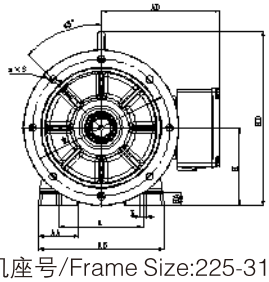
机座号/Frame Size:100-315



机座号/Frame Size:63-90



机座号/Frame Size:100-200

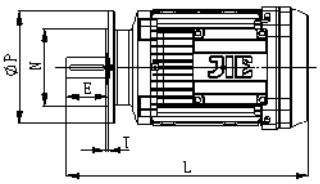


机座号/Frame Size:225-315

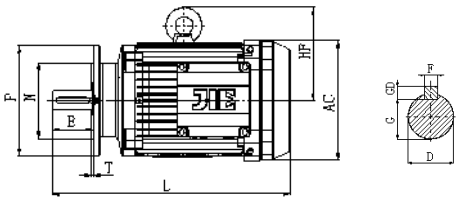
机座号 Frame Size JD.63...~315../B35	外形及安装尺寸/Overall and mounting dimensions(mm)																						
	A	AA	AB	AC	AD	B	BB	C	D	E	F	G	H	HA	K	M	N	P	R	S	T	L
63S4	100	31	127	120	108	80	110	40	$\Phi 11j6^{+0.008}_{-0.003}$	23	4	8.5	63	4.5	7	Φ115	$\Phi 95j6^{+0.013}_{-0.009}$	Φ140	O	4×Φ9	3	218
63M4																						
63L4																						
71S4	112	30	130	135	127	90	115	45	$\Phi 14j6^{+0.008}_{-0.003}$	30	5	11	71	6	7	Φ130	$\Phi 110j6^{+0.013}_{-0.009}$	Φ160		4×Φ12	3.5	252
80S4	125	36	165	156	137	100	140	50	$\Phi 19j6^{+0.009}_{-0.004}$	40	6	15.5	80	6	10	Φ165	$\Phi 130j6^{+0.014}_{-0.011}$	Φ200		4×Φ12	3.5	312
80M4																						
90M4	140	32	180	177.5	148	125	155	56	$\Phi 24j6^{+0.009}_{-0.004}$	50	8	20	90	6	10	Φ165	$\Phi 130j6^{+0.014}_{-0.011}$	Φ200		4×Φ12	3.5	335
90L4																						
100M4	160	45	190	189	156	140	180	63	$\Phi 28j6^{+0.009}_{-0.004}$	60	8	24	100	6	12	Φ215	$\Phi 180j6^{+0.014}_{-0.011}$	Φ250		4×Φ14.5	4	405
112M4	190	46	220	221	171	140	208	70	$\Phi 28j6^{+0.009}_{-0.004}$	60	8	24	112	7.5	12	Φ215	$\Phi 180j6^{+0.014}_{-0.011}$	Φ250		4×Φ14.5	4	452
132S4	216	42	246	221	171	140	216	89	$\Phi 38k6^{+0.018}_{+0.002}$	80	10	33	132	12	12	Φ265	$\Phi 230j6^{+0.016}_{-0.013}$	Φ300	O	4×Φ14.5	4	472
132M4	216	42	246	221	171	178	216	89	$\Phi 38k6^{+0.018}_{+0.002}$	80	10	33	132	12	12	Φ265	$\Phi 230j6^{+0.016}_{-0.013}$	Φ300		4×Φ14.5	4	522
160S4	254	82	289	270.5	228	210	294	108	$\Phi 38k6^{+0.018}_{+0.002}$	80	12	37	160	25	14.5	Φ300	$\Phi 230j6^{+0.016}_{-0.013}$	Φ350		4×Φ14.5	4	570
160M4	254	82	289	270.5	228	210	294	108	$\Phi 42k6^{+0.018}_{+0.002}$	110	12	37	160	25	14.5	Φ300	$\Phi 250j6^{+0.016}_{-0.013}$	Φ350		4×Φ14.5	5	570
180S4	279	82	320	316	253	241	319	121	$\Phi 48n6^{+0.018}_{+0.002}$	110	14	42.5	180	33	14.5	Φ300	$\Phi 250j6^{+0.016}_{-0.013}$	Φ350		4×Φ17.5	5	633
180M4	279	82	320	316	253	241	319	121	$\Phi 48k6^{+0.018}_{+0.002}$	110	14	42.5	180	33	14.5	Φ300	$\Phi 250j6^{+0.016}_{-0.013}$	Φ350		4×Φ17.5	5	633
180L4	279	82	320	316	253	279	319	121	$\Phi 48k6^{+0.018}_{+0.002}$	110	14	42.5	180	33	14.5	Φ300	$\Phi 250j6^{+0.016}_{-0.013}$	Φ350		4×Φ17.5	5	693
180LC4																				4×Φ18.5	5	693
200L4	318	95	378	394	283	305	355	133	$\Phi 55m6^{+0.03}_{+0.011}$	110	16	49	200	28	18.5	Φ350	$\Phi 300h6^{0}_{-0.032}$	Φ400		8×Φ18.5	5	759
225S4	356	115	413	394	283	286	371	149	$\Phi 60m6^{+0.03}_{+0.011}$	140	18	53	225	40	18.5	Φ400	$\Phi 350h6^{0}_{-0.036}$	Φ450		8×Φ18.5	5	789
225M4	356	115	413	394	283	311	371	149	$\Phi 60m6^{+0.03}_{+0.011}$	140	18	53	225	40	18.5	Φ400	$\Phi 350h6^{0}_{-0.036}$	Φ450		8×Φ18.5	5	839

附录D
（规范性附录）
Appendix D
(normative appendix)

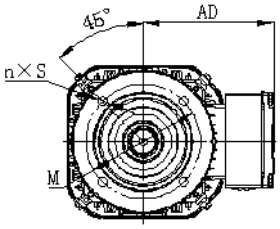
机座不带底脚，带法兰的电动机
Without feet and with flange



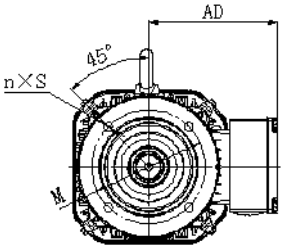
机座号/Frame Size:63-90



机座号/Frame Size:100-112



机座号/Frame Size:63-90



机座号/Frame Size:100-112

机座号 Frame Size JD.63..~112../B14	外形及安装尺寸/Overall and mounting dimensions(mm)												
	AC	AD	D	E	F	G	M	N	P	R	S	T	L
63S4	132	105	$\Phi 11j6^{+0.008}_{-0.003}$	23	4	8.5	Φ75	$\Phi 60j6^{+0.012}_{-0.007}$	Φ90		4×M5	2.5	210
63M4													
63L4													
71S4	139	119	$\Phi 14j6^{+0.008}_{-0.003}$	30	5	11	Φ85	$\Phi 70j6^{+0.012}_{-0.007}$	Φ105		4×M6	2.5	253
80S4 80M4	156	128	$\Phi 19j6^{+0.009}_{-0.004}$	40	6	15.5	Φ100	$\Phi 80j6^{+0.012}_{-0.007}$	Φ120		4×M6	3	312
90M4 90L4	179	140	$\Phi 24j6^{+0.009}_{-0.004}$	50	8	20	Φ115	$\Phi 95j6^{+0.013}_{-0.009}$	Φ140		4×M8	3	336
100M4	197	157	$\Phi 28j6^{+0.009}_{-0.004}$	60	8	24	Φ130	$\Phi 110j6^{+0.013}_{-0.009}$	Φ160		4×M8	3.5	406
112M4	221	170	$\Phi 28j6^{+0.009}_{-0.004}$	60	8	24	Φ130	$\Phi 110j6^{+0.013}_{-0.009}$	Φ160		4×M8	3.5	447

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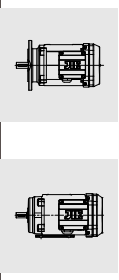

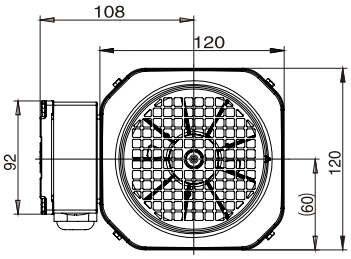

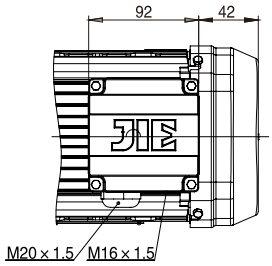

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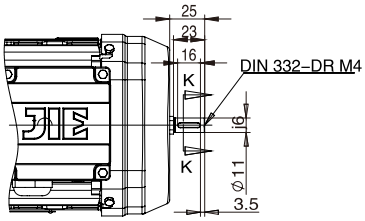

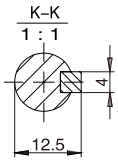

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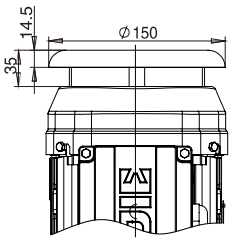

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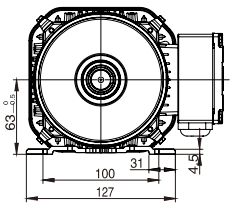

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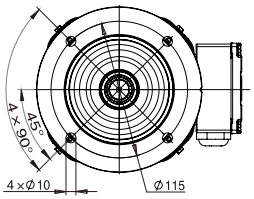

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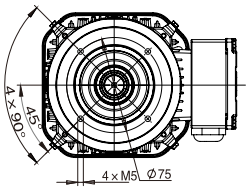

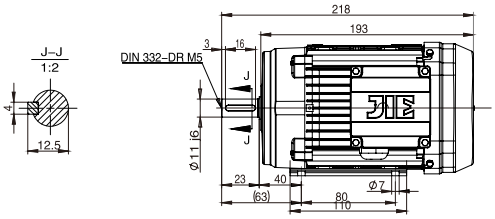

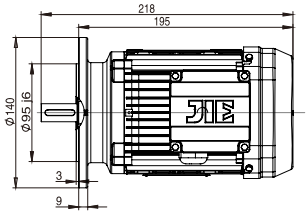

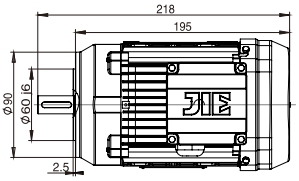

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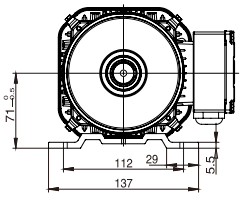

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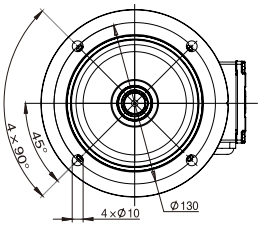

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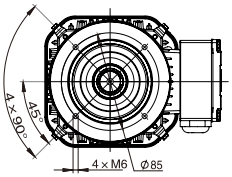

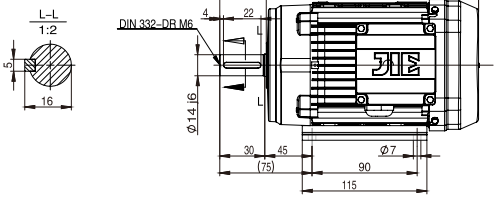

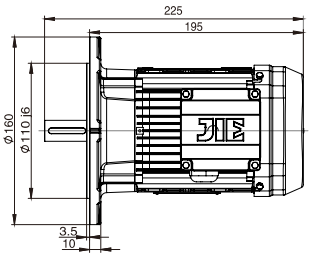

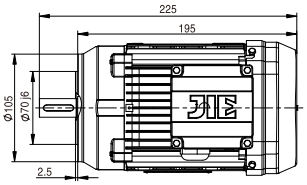

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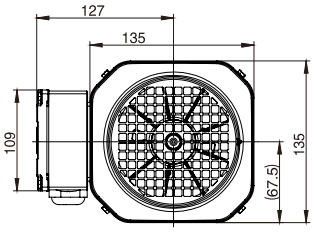

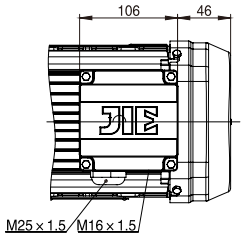

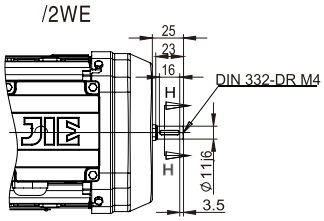

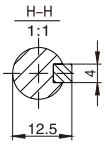

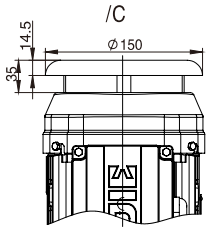

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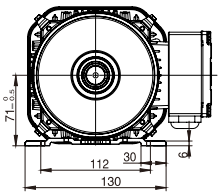

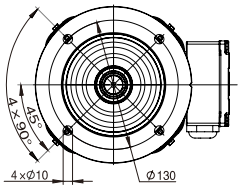

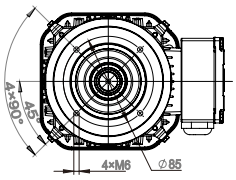

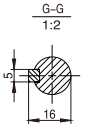

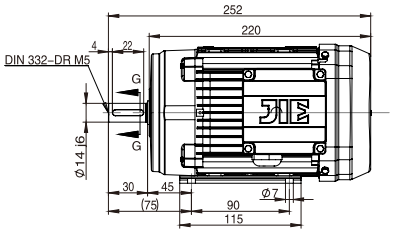

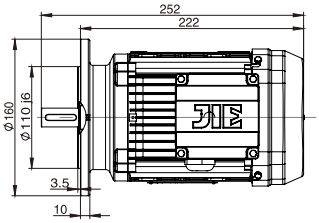

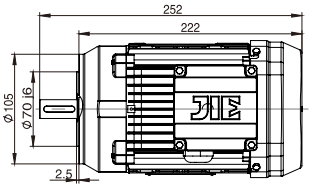

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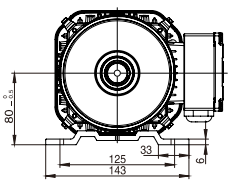

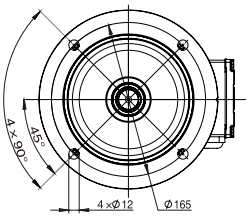

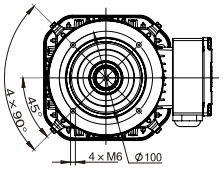

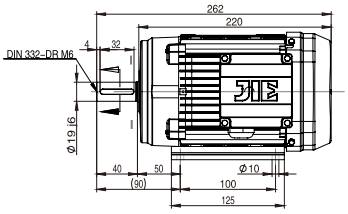

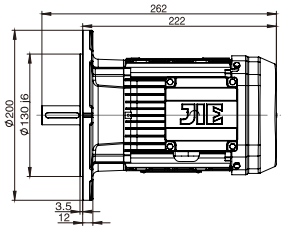

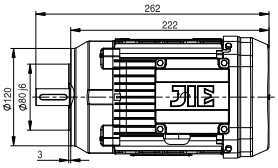

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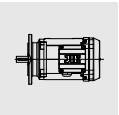

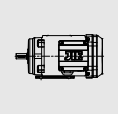

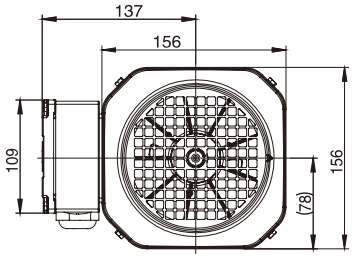

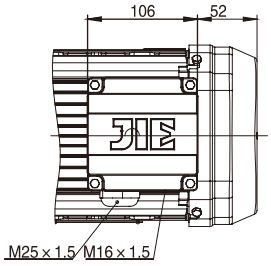

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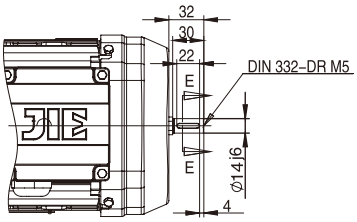

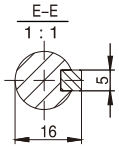

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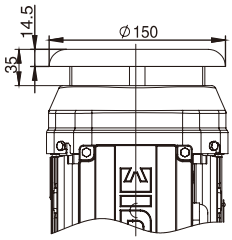

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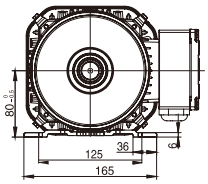

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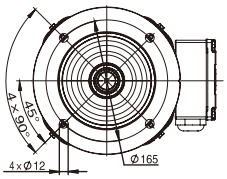

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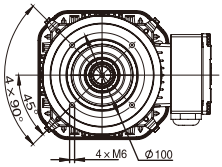

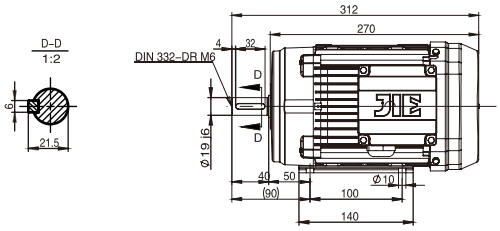

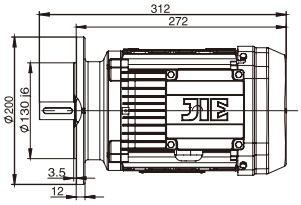

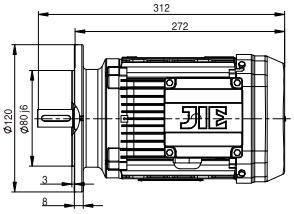

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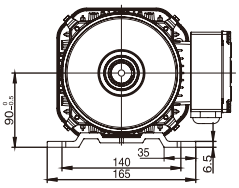

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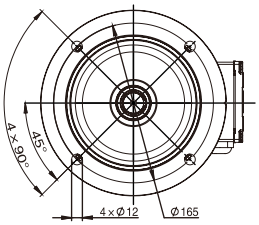

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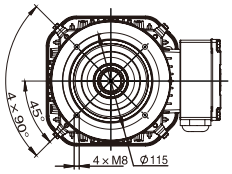

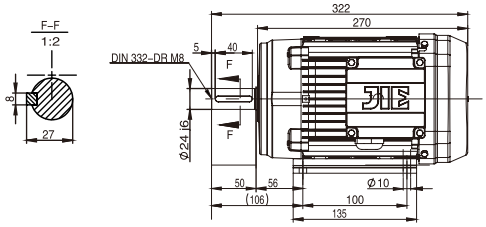

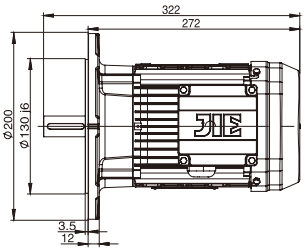

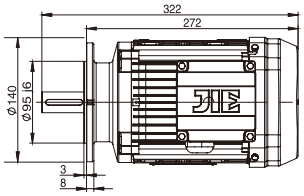

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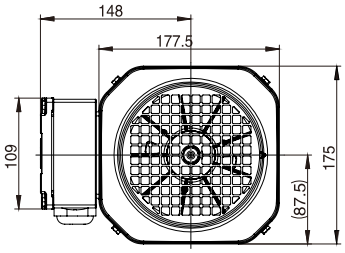

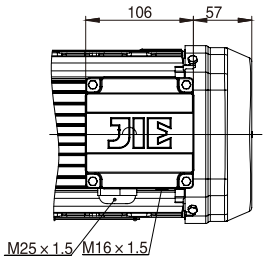

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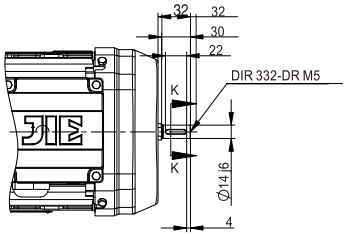

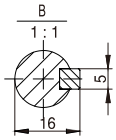

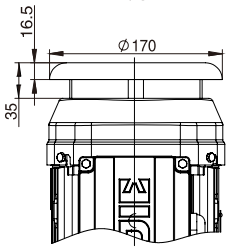

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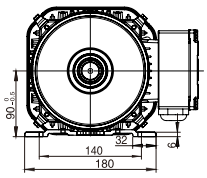

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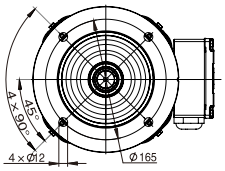

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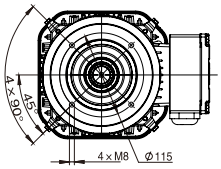

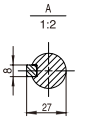

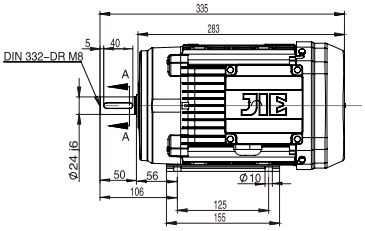

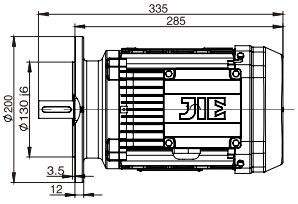

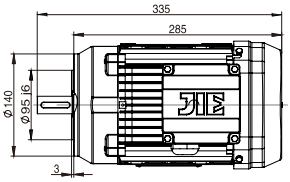

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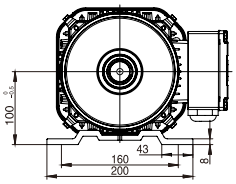

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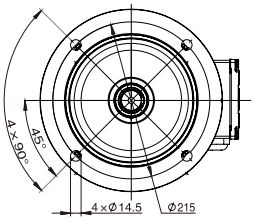

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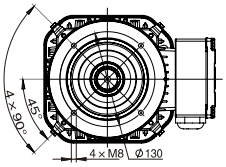
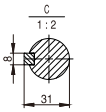
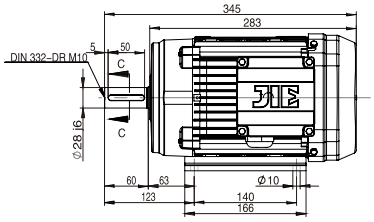
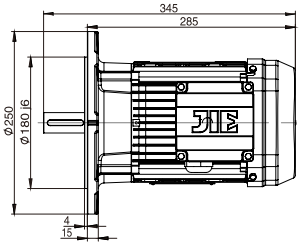
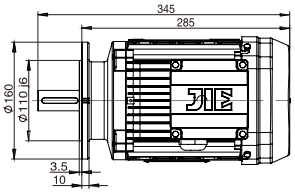


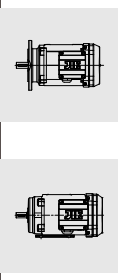


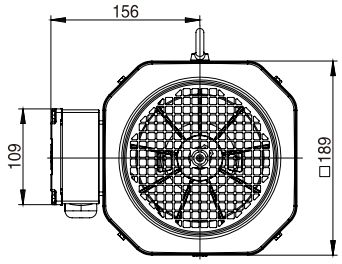


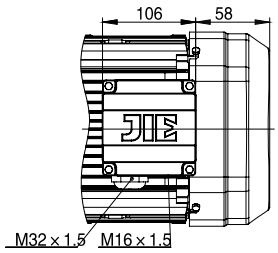




标准电机
Standard motor
JD.100../.2WE/.C







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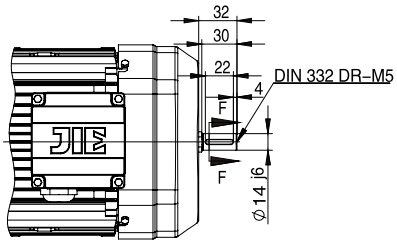

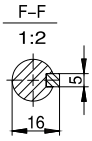

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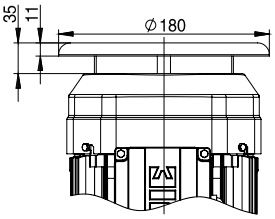

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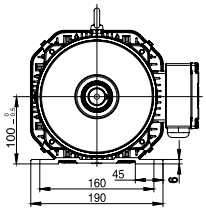

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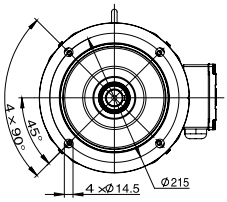

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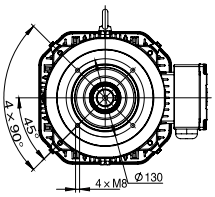

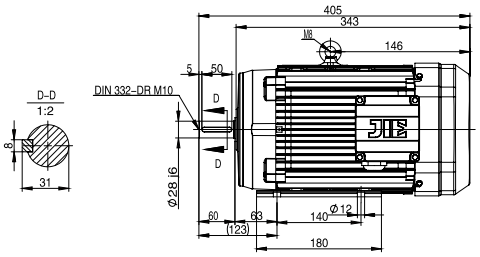

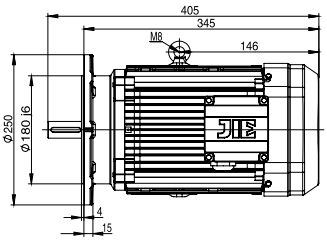

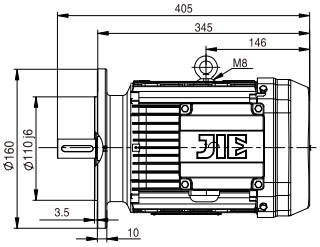

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Standard motor
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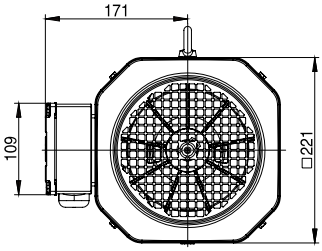

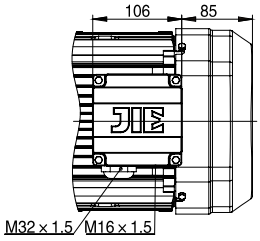

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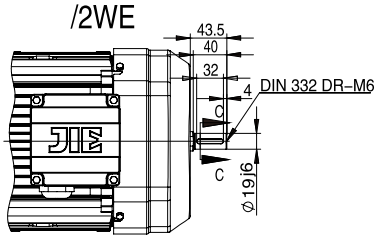

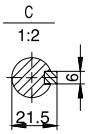

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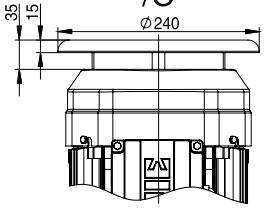

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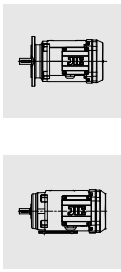

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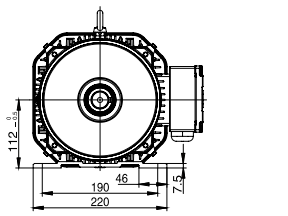

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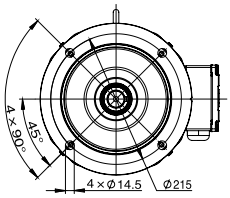

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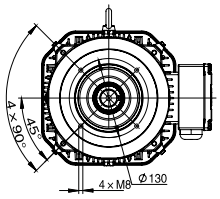

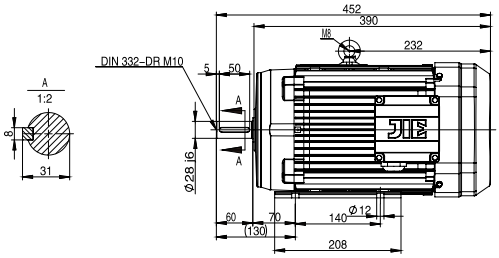

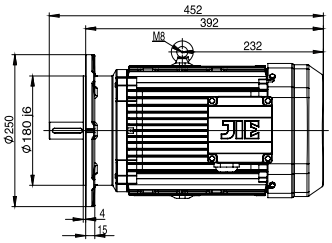

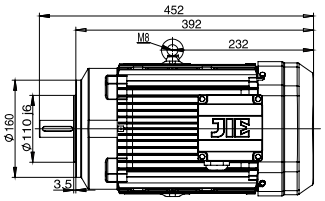

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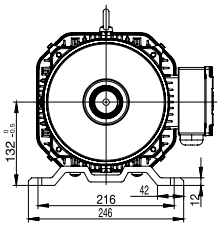

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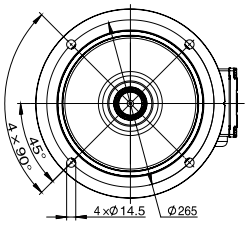

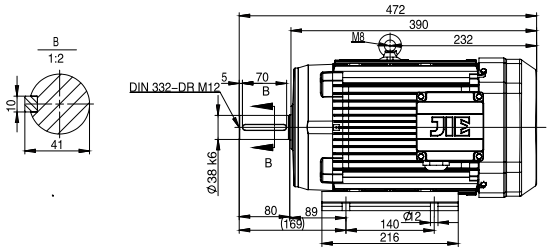

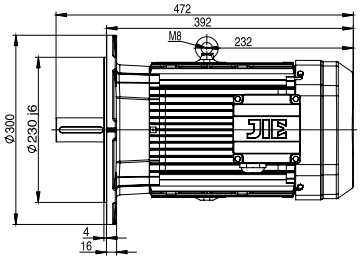

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Standard motor
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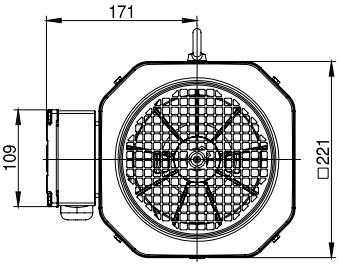

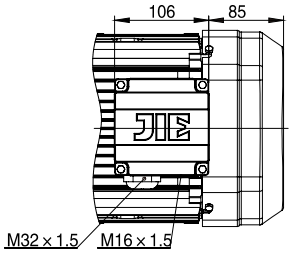

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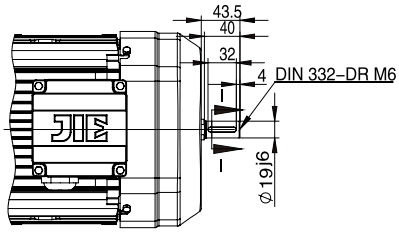

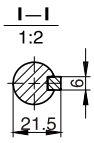

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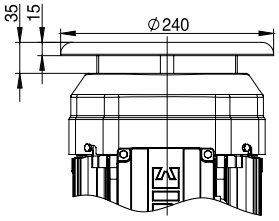

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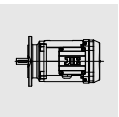

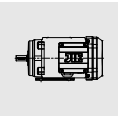

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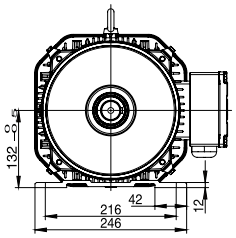

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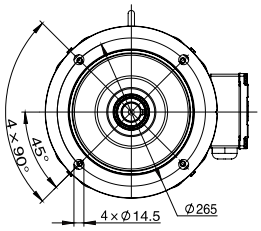

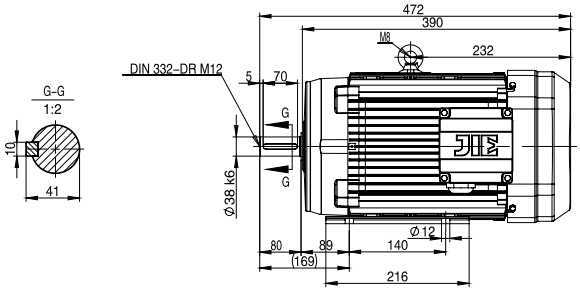

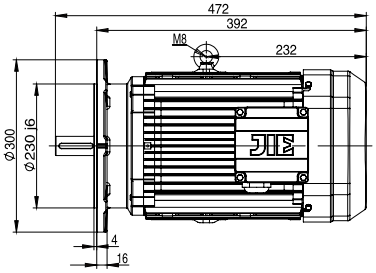

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Standard motor
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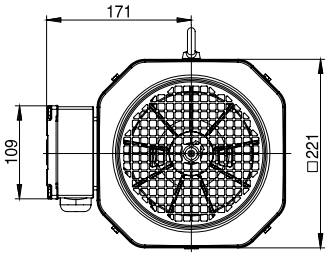

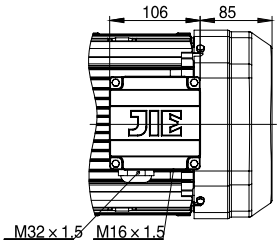

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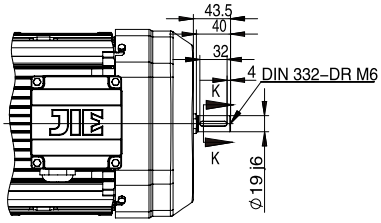

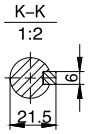

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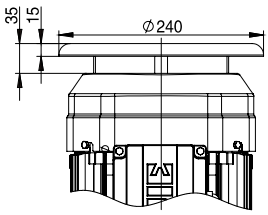
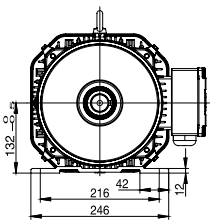
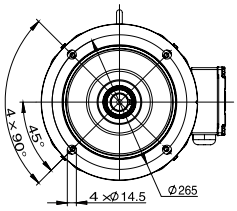


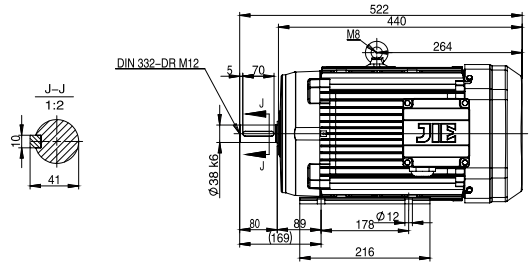
JD.132M../.B3/.B5

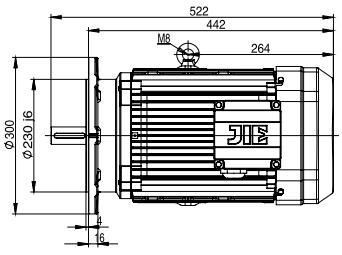
B3



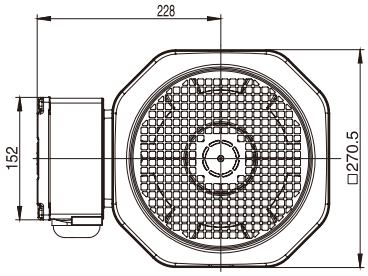
B5/FF265

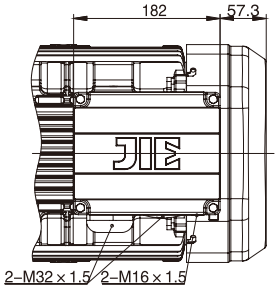


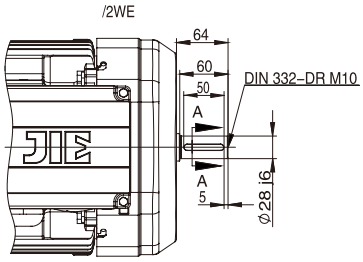


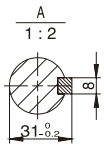


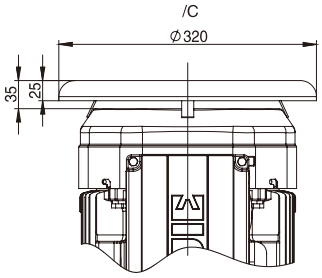
标准电机
Standard motor
JD.160../.2WE/.C



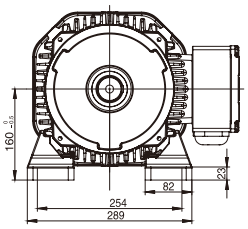


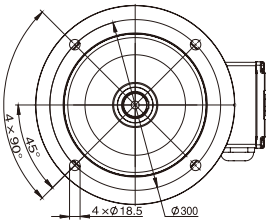


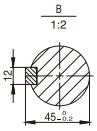


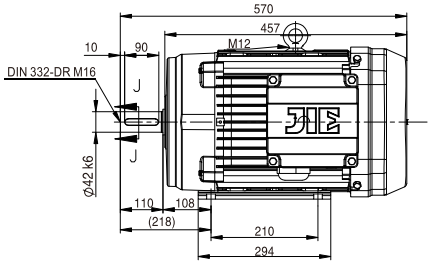


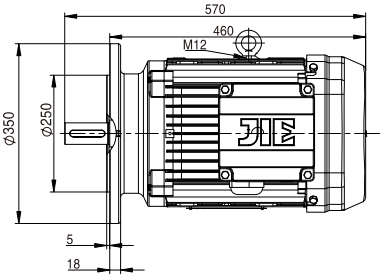
JD.160../.B3/.B5



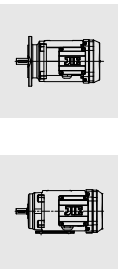


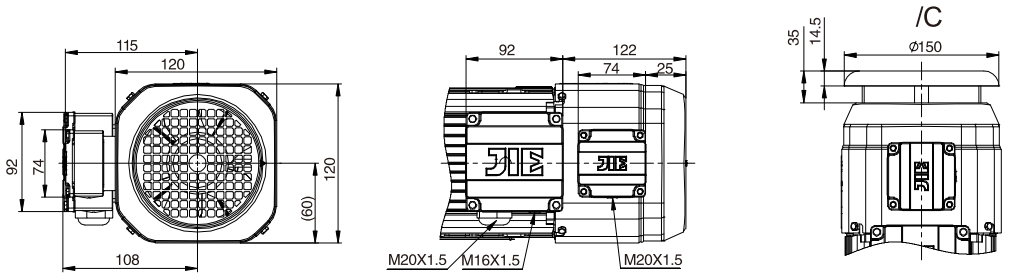




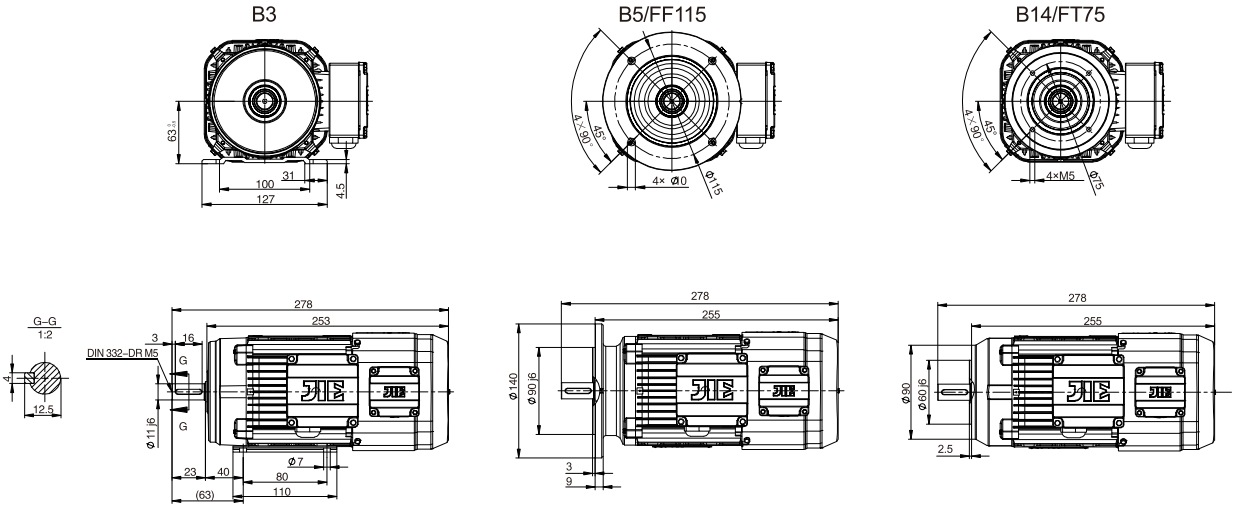


带独立风机电机
Motor with independent fan
JD.63../.V/.C

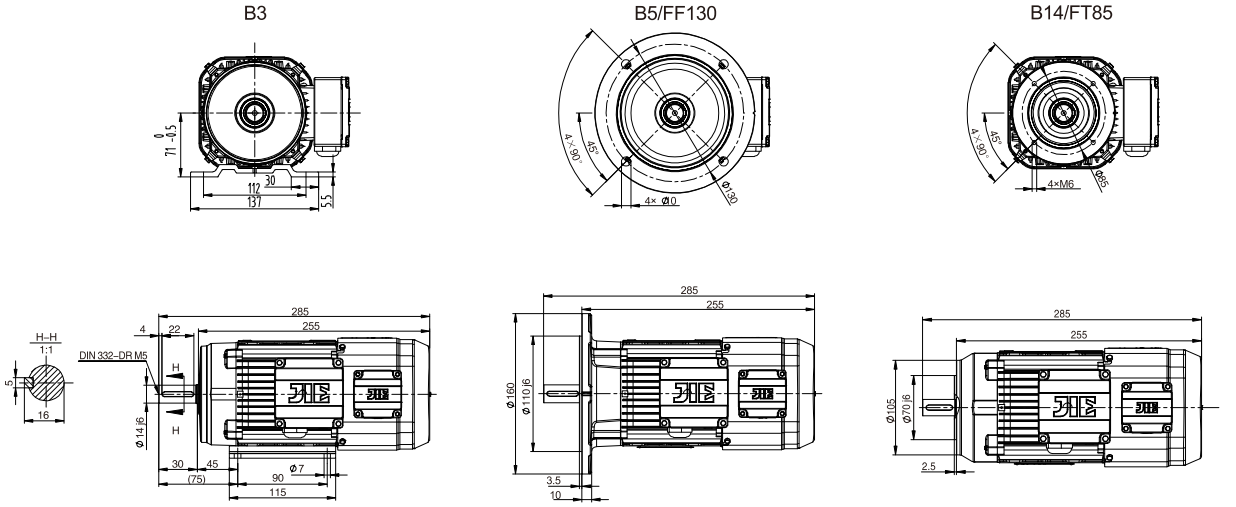




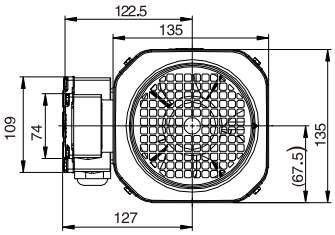
JD.63../.V/.B3/.B5/.B14

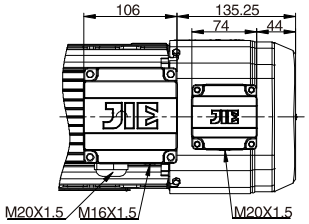


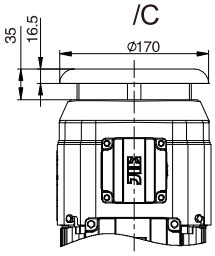
JD.63..H71../.V/.B3/.B5/.B14



带独立风机电机
Motor with independent fan
JD.71../.V/.C

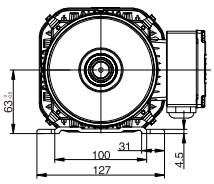




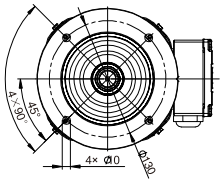


JD.71../.V/.B3/.B5/.B14

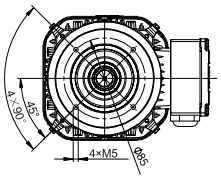
B3

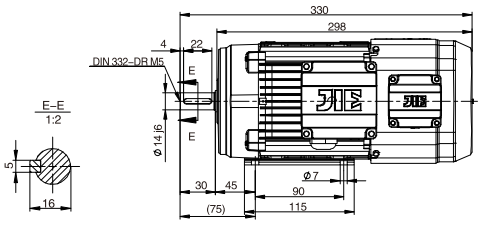


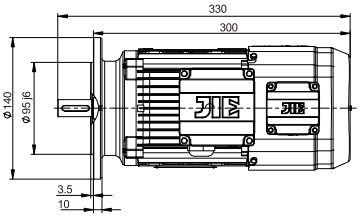
B5/FF130

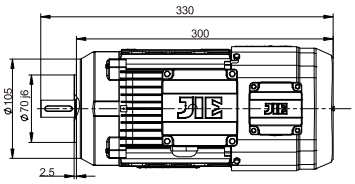


B14/FT85



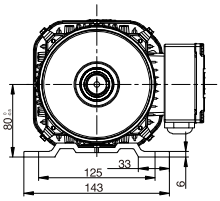




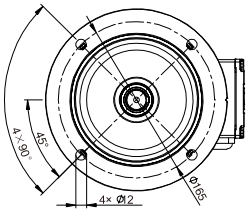


JD.71..H80../.V/.B3/.B5/.B14

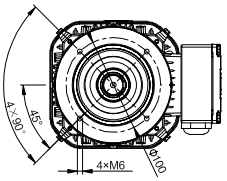
B3

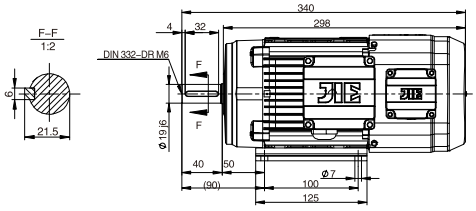


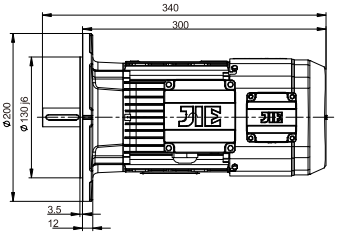
B5/FF165

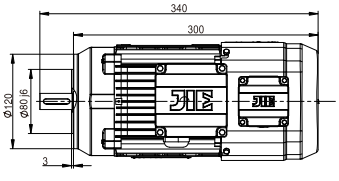


B14/FT100

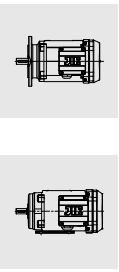


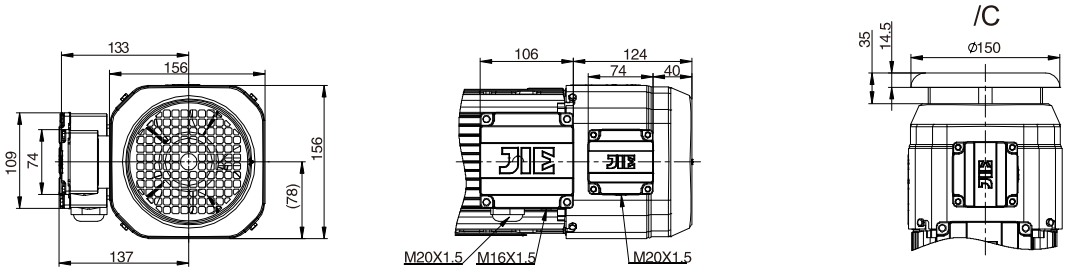






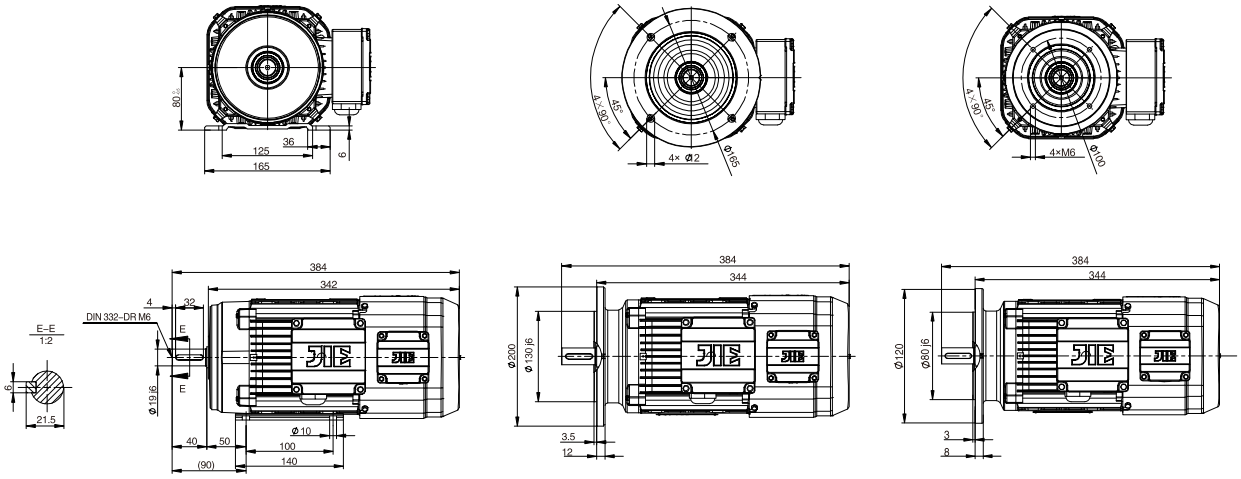
带独立风机电机
Motor with independent fan
JD.80../.V/.C





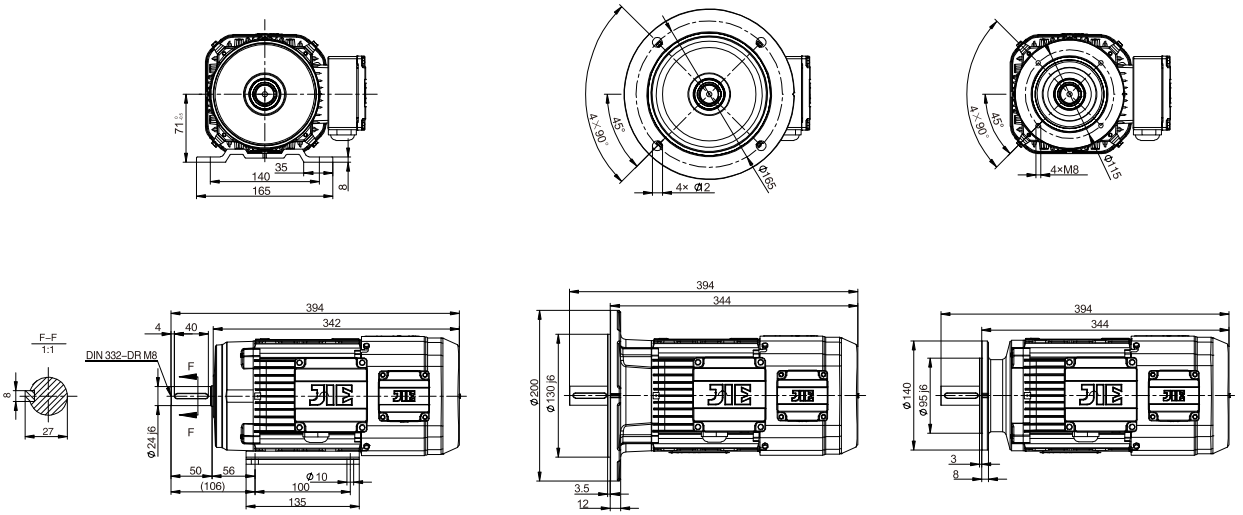
JD.80../.V/.B3/.B5/.B14

B3 B5/FF165 B14/FT100

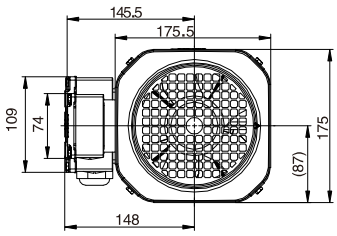


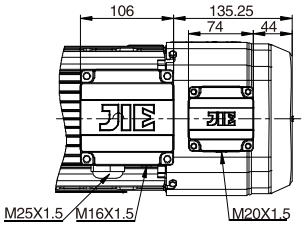
JD.80..H90M../.V/.B3/.B5/.B14

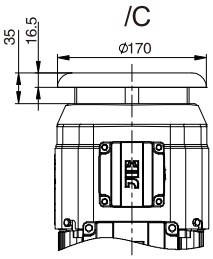
B3 B5/FF165 B14/FT115



带独立风机电机
Motor with independent fan
JD.90../.V/.C

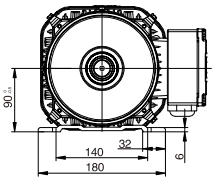




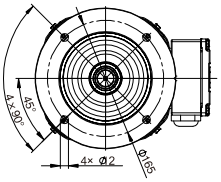


JD.90../.V/.B3/.B5/.B14

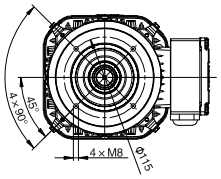
B3

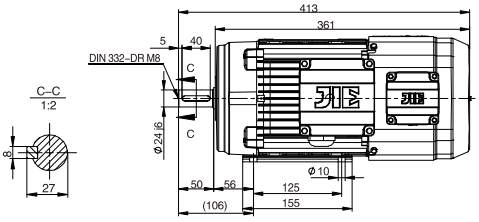


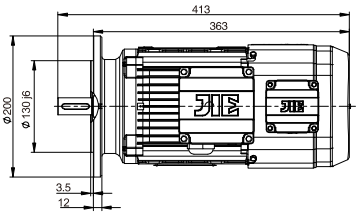
B5/FF165

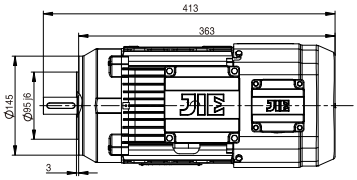


B14/FT115



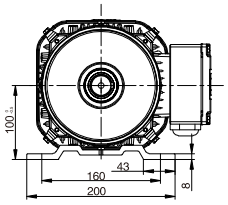




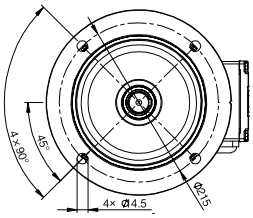


JD.90..H100../.V/.B3/.B5/.B14

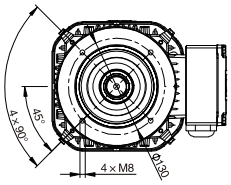
B3

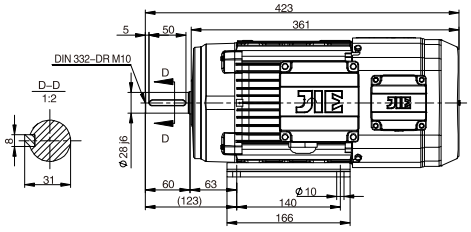


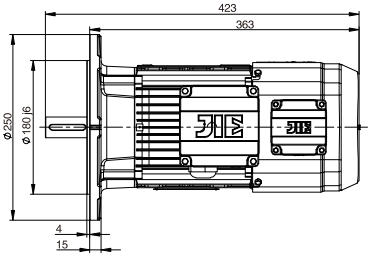
B5/FF215

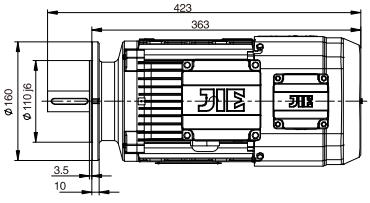


B14/FT130

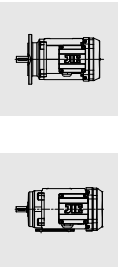


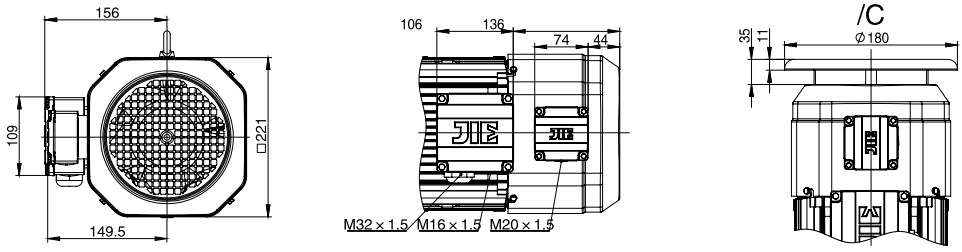




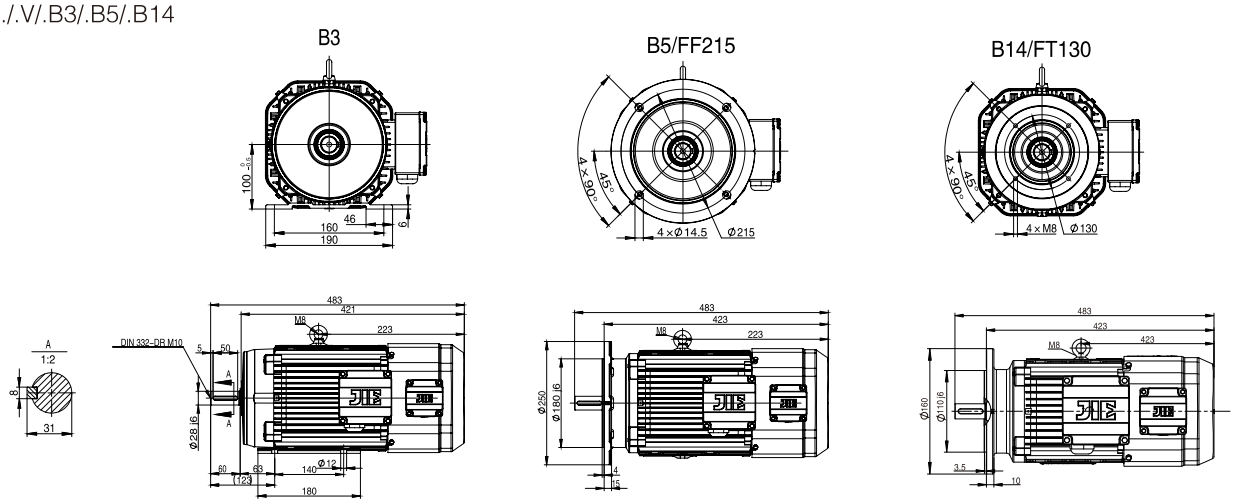


带独立风机电机
Motor with independent fan
JD.100../.V/.C/.2WE

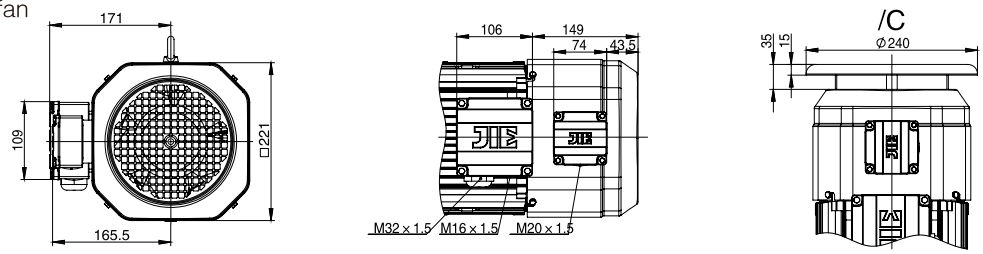




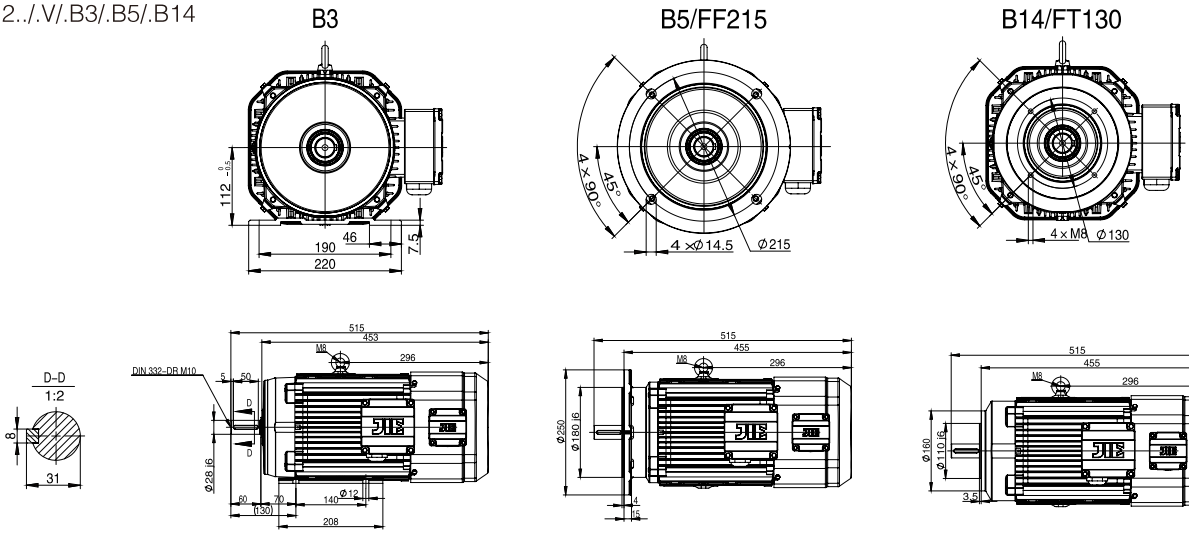
JD.100../.V/.B3/.B5/.B14



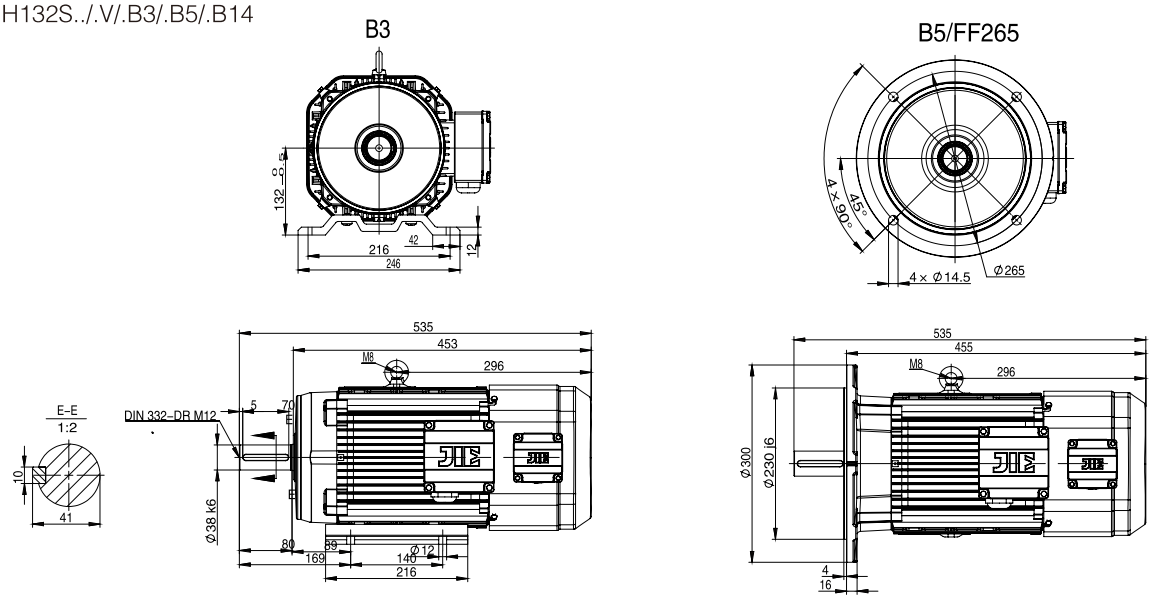
带独立风机电机
Motor With independent fan
JD.112../.V/.C/



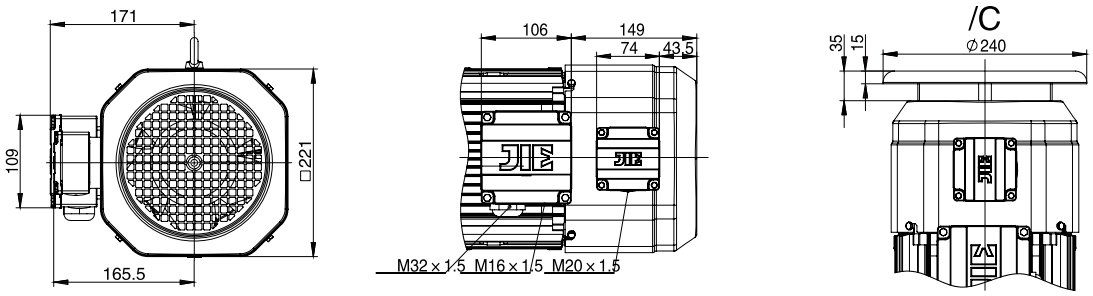
JD.112../.V/.B3/.B5/.B14



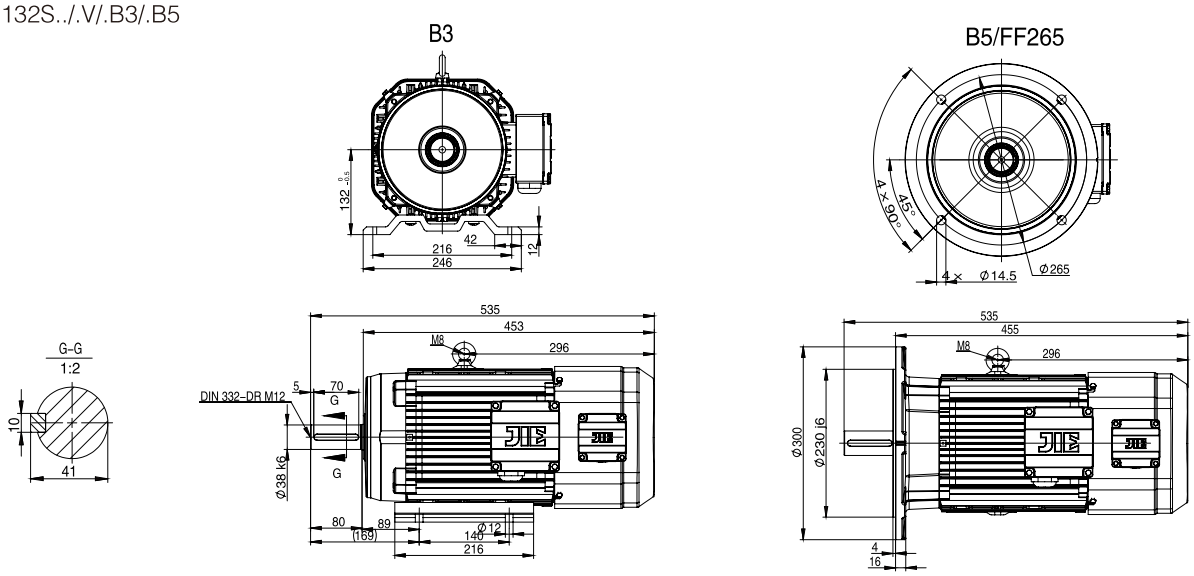
JD.112..H132S../.V/.B3/.B5/.B14



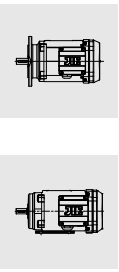
带独立风机电机
Motor with independent fan
JD.132S../.V/.C

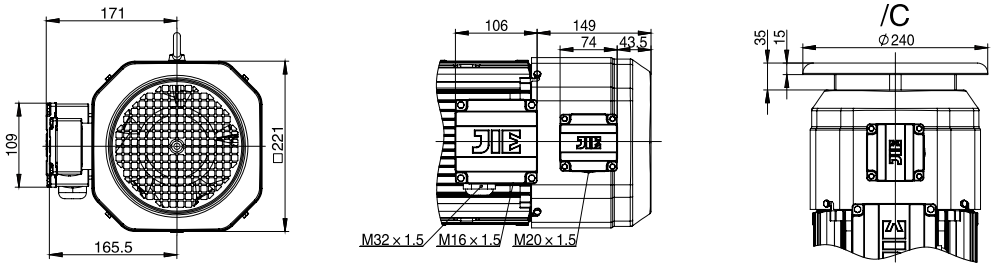


JD.132S../.V/.B3/.B5



带独立风机电机
Motor with independent fan
JD.132M../.V/.C





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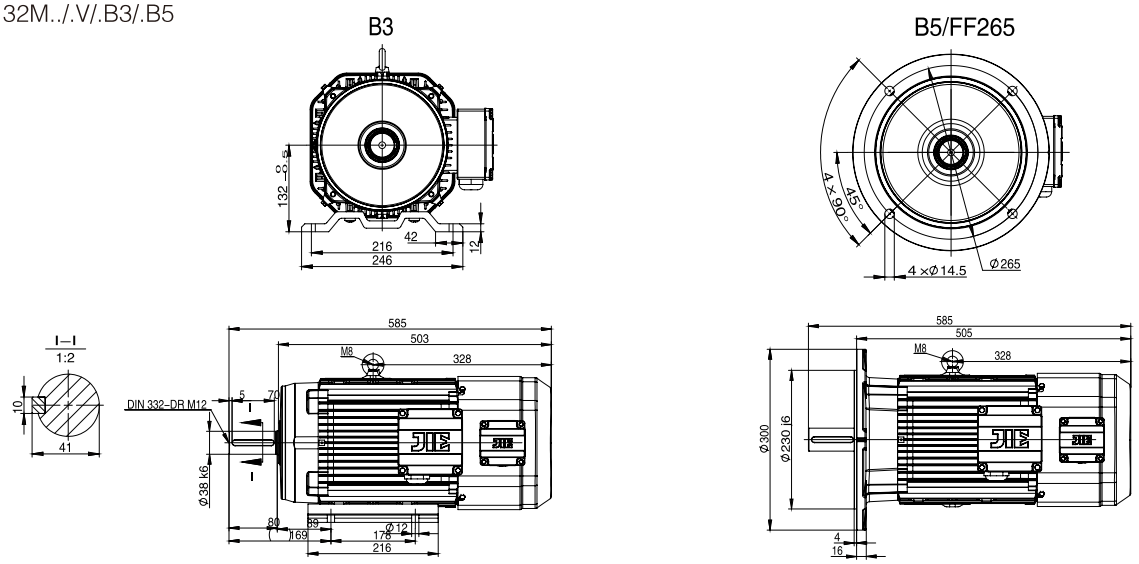
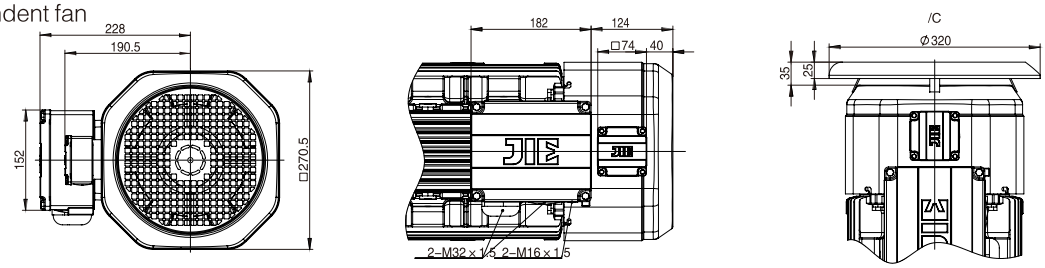


带独立风机电机
Motor With independent fan
JD.160../.V/.C



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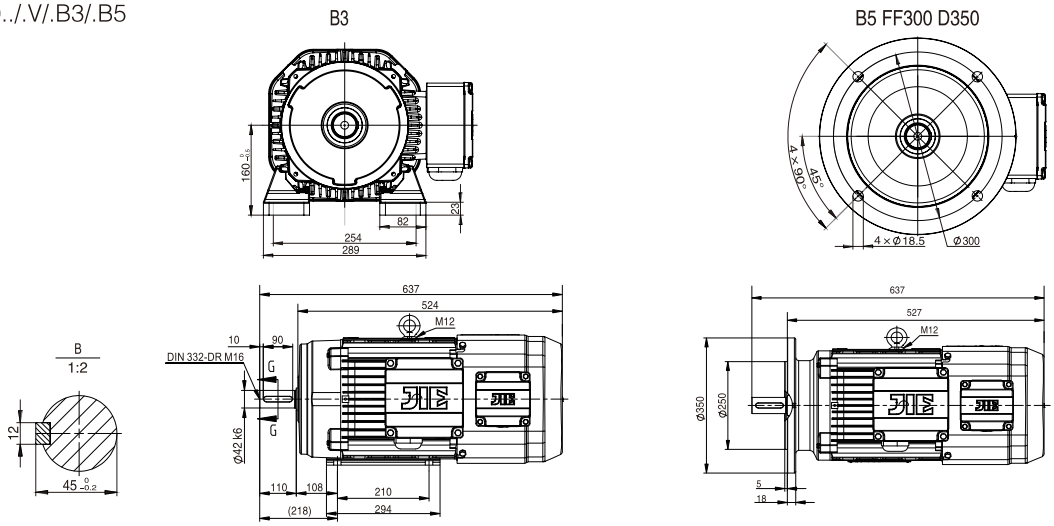
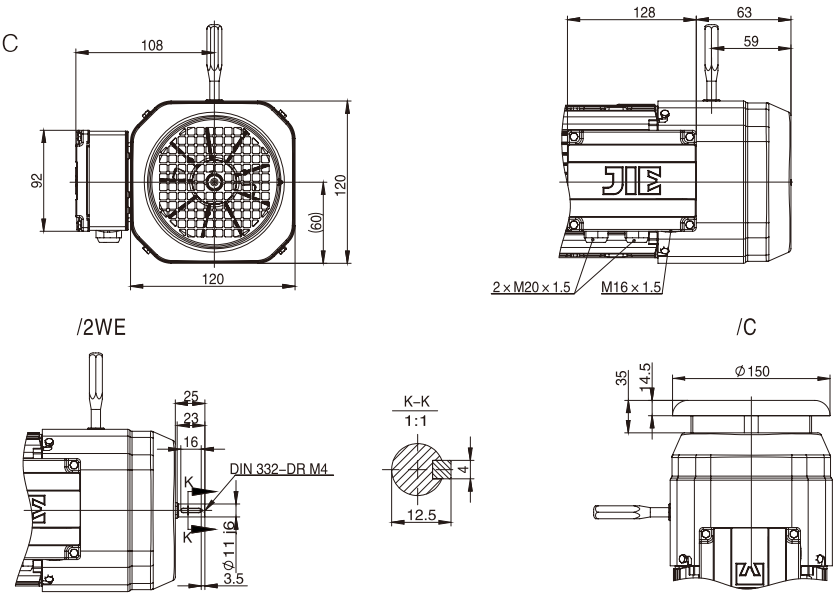


制动电机
Brake motor
JD.63../.BE/.2WE/.C



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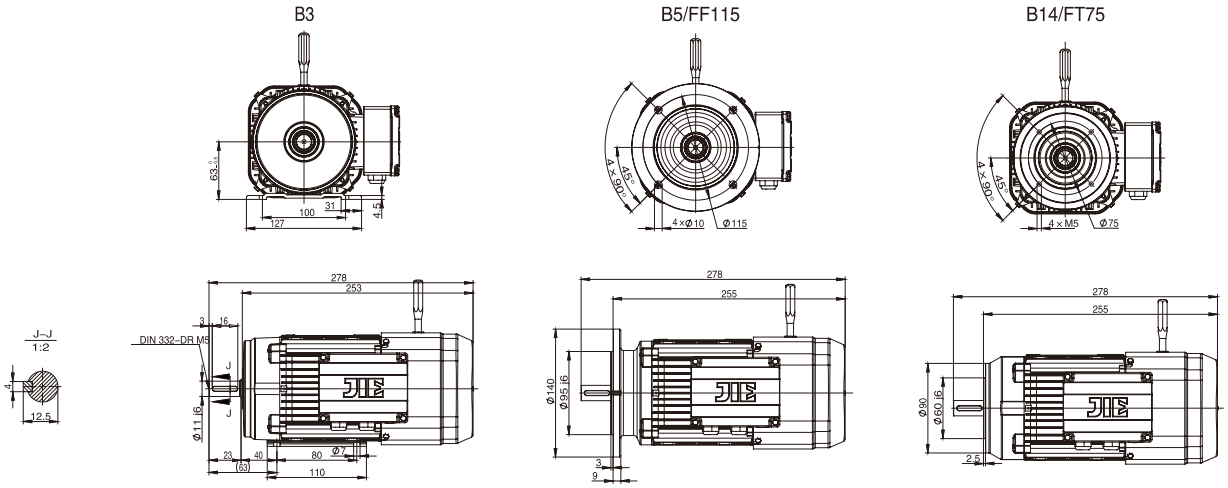

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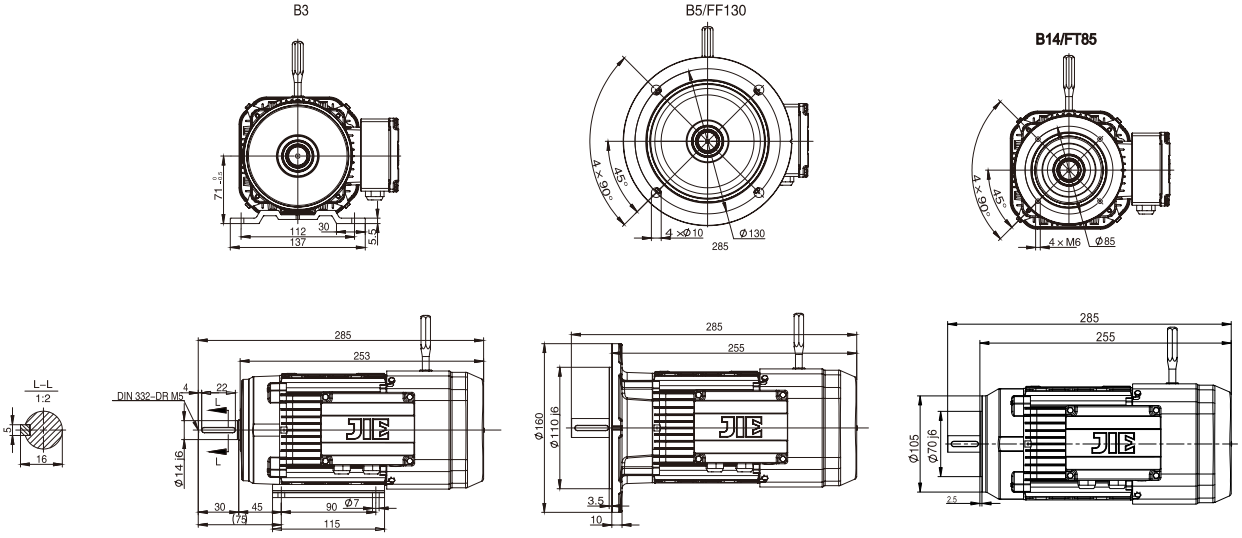
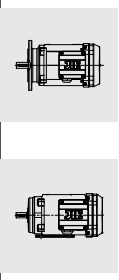
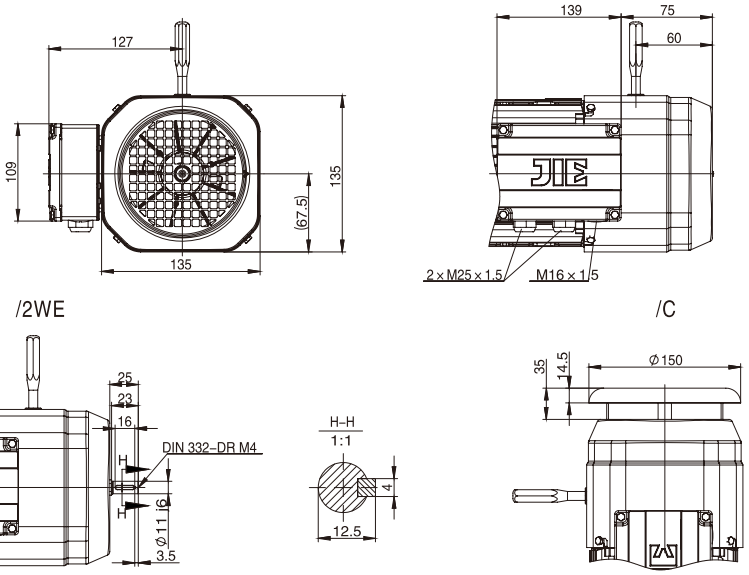


制动电机
Brake motor
JD.71../.BE/.2WE/.C





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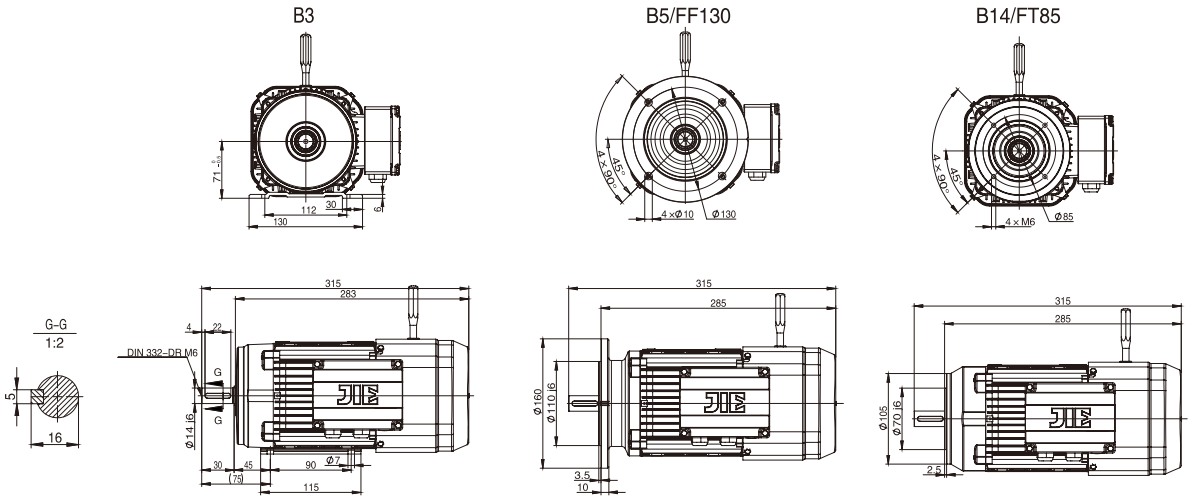

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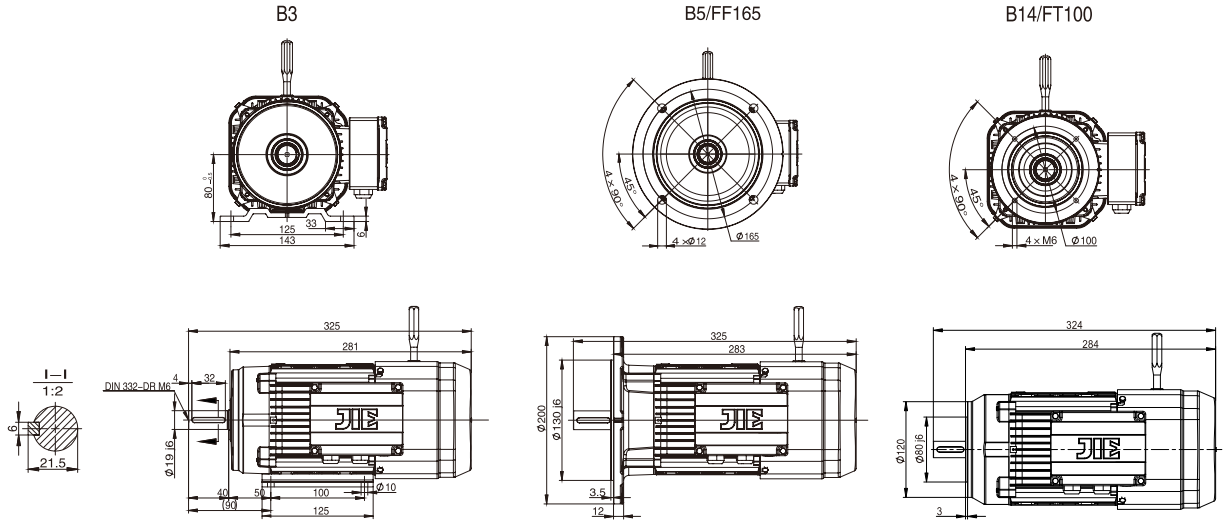
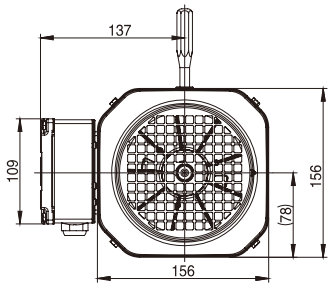
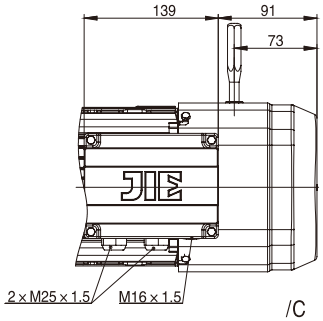


制动电机
Brake motor
JD.80../.BE/.2WE/.C





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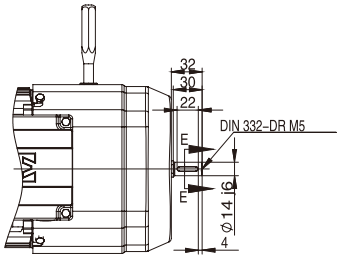

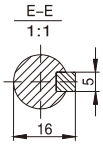

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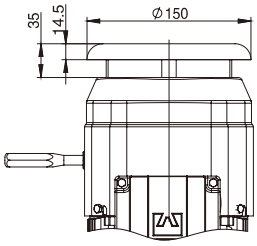

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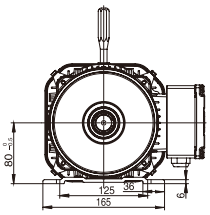

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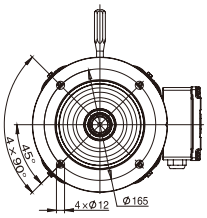
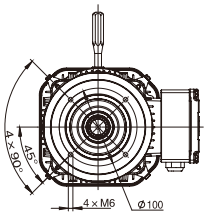
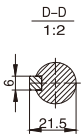
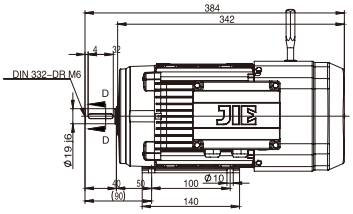
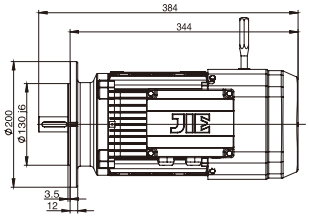


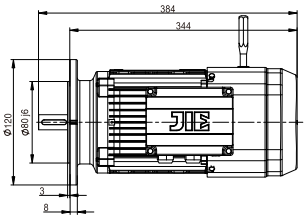
B14/FT100











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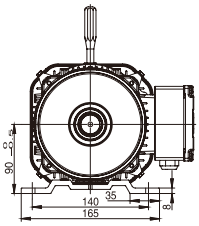

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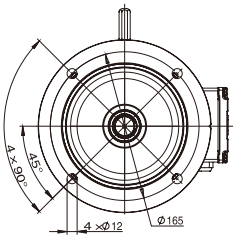
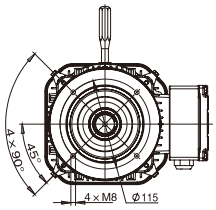
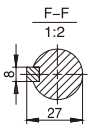
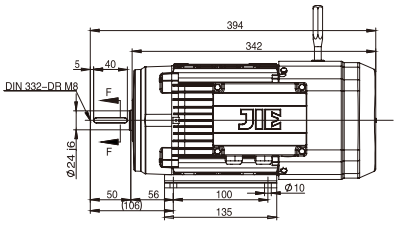
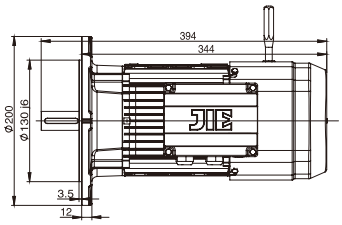


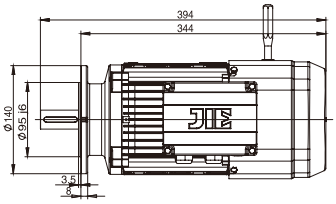
B14/FT115



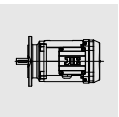


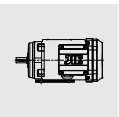


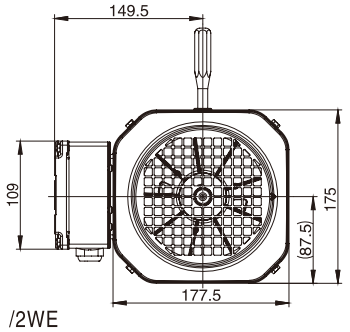


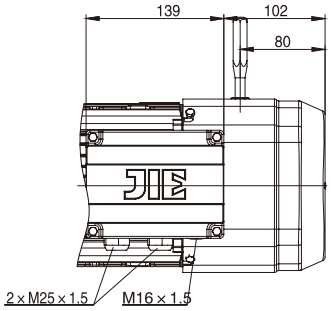


制动电机
Brake motor
JD.90../.BE/.2WE/.C









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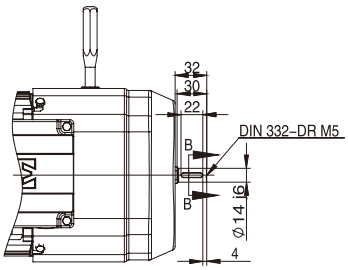

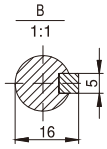

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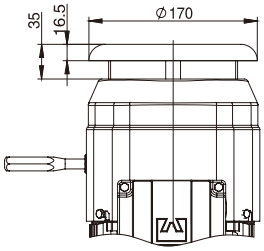

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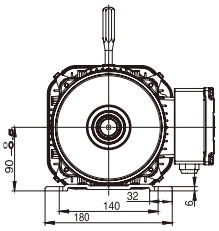
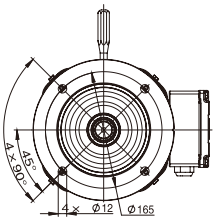
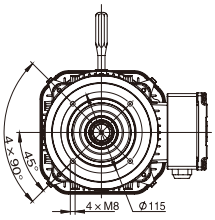
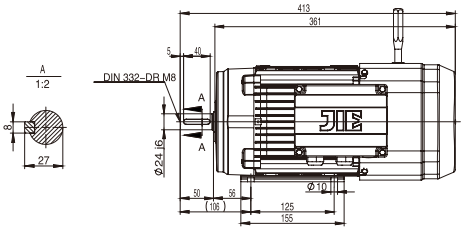


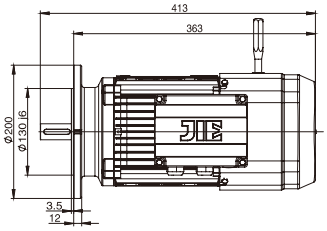
B5/FF165

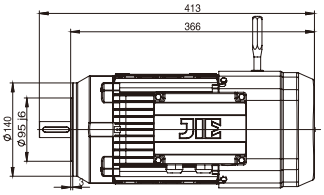


B14/FT115









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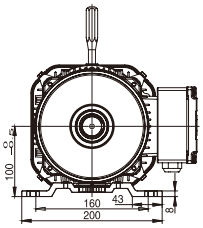

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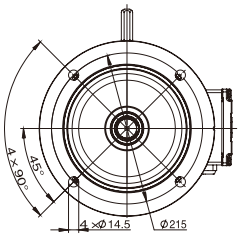

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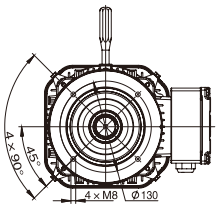
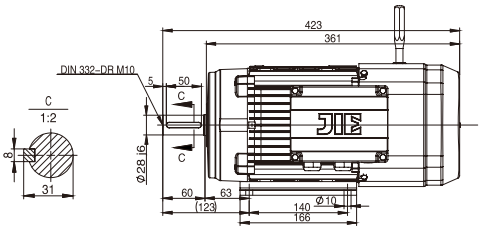
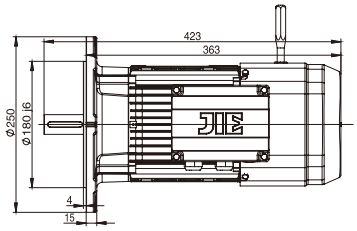
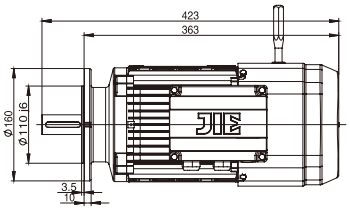
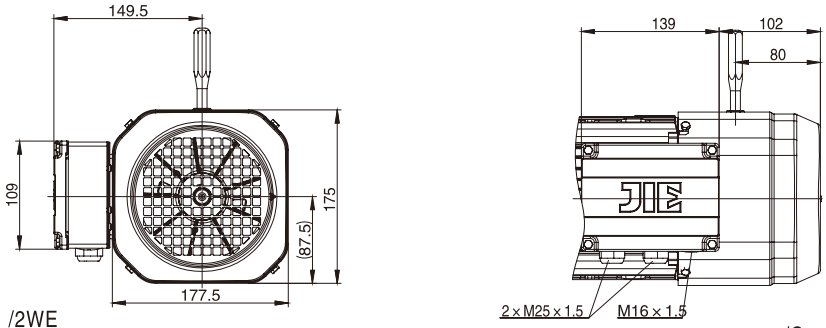








制动电机
Brake motor
JD.90../.BE/.2WE/.C



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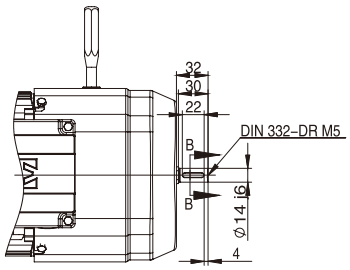

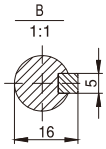

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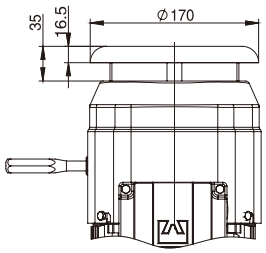

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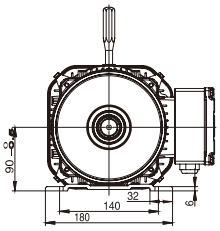

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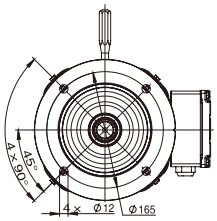

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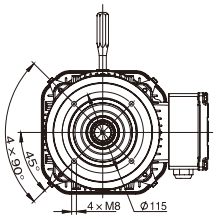
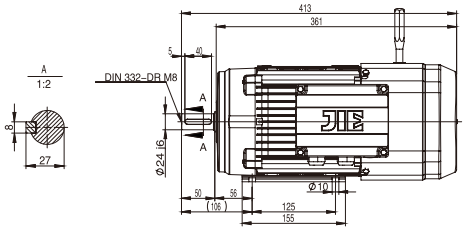
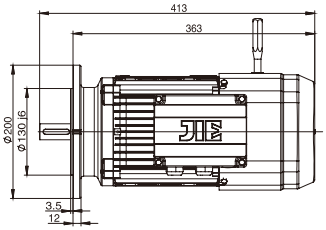
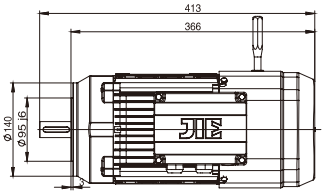


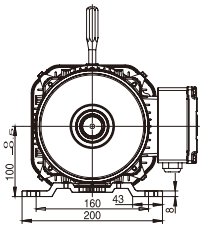




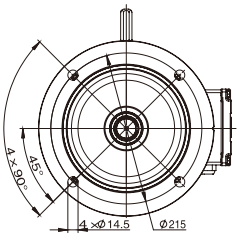


JD.90..H100../.BE/.B3/.B5/.B14

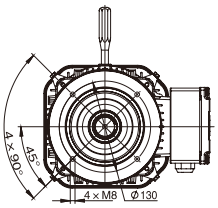
B3

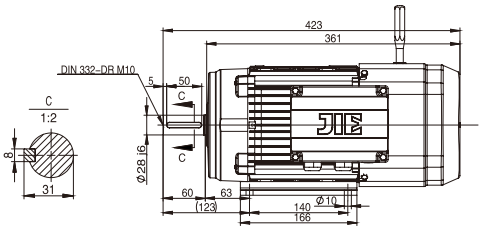


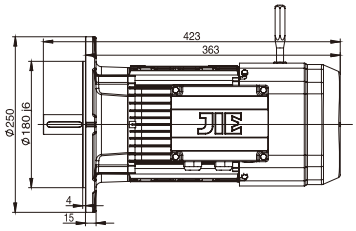
B5/FF215

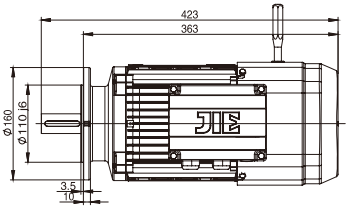


B14/FT130

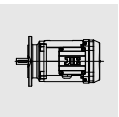


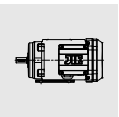


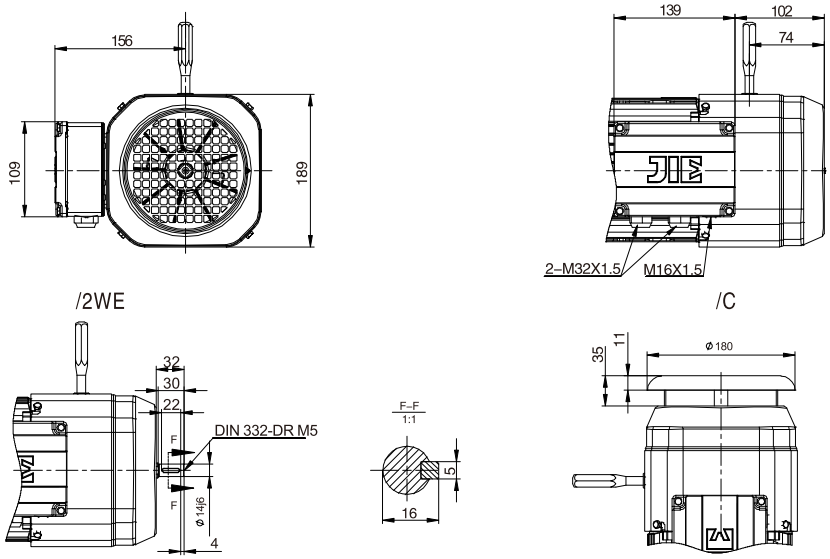




制动电机
Brake motor
JD.100../.BE/.C/.2WE







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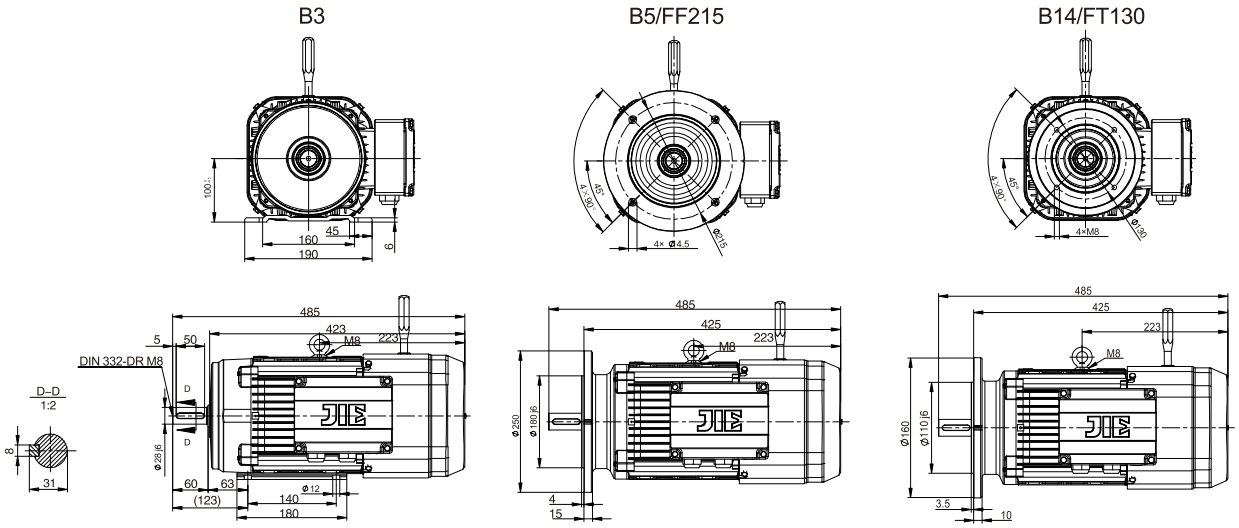
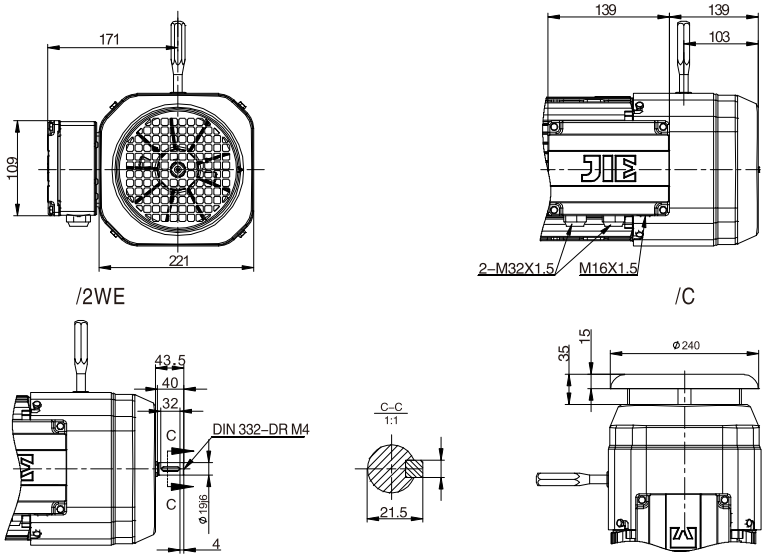


制动电机
Brake motor
JD.110../.BE/.C/.2WE



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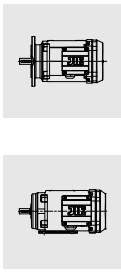

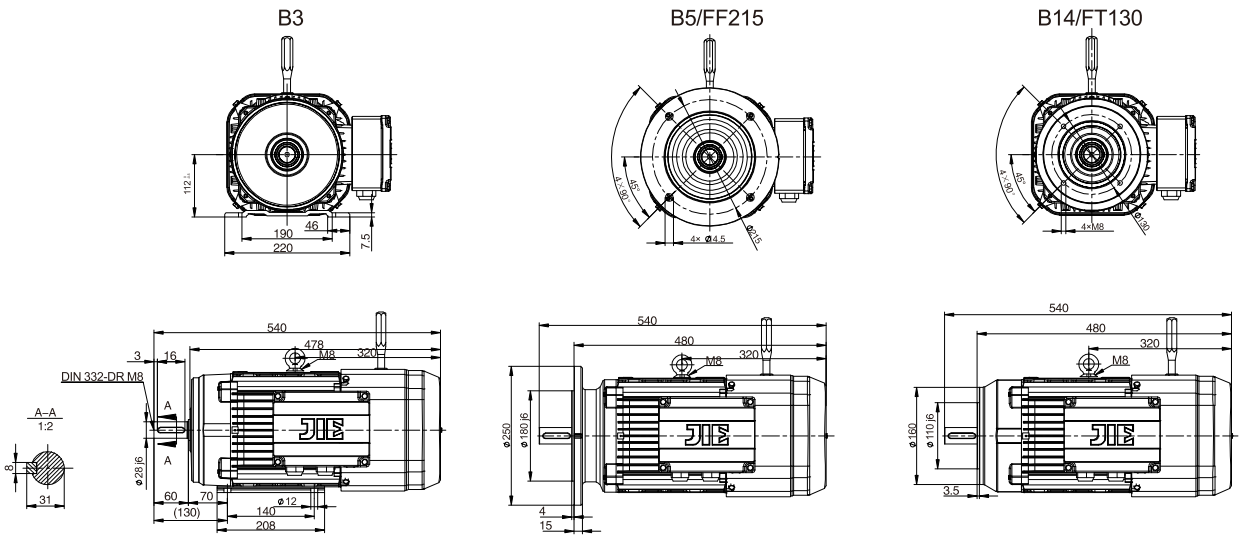

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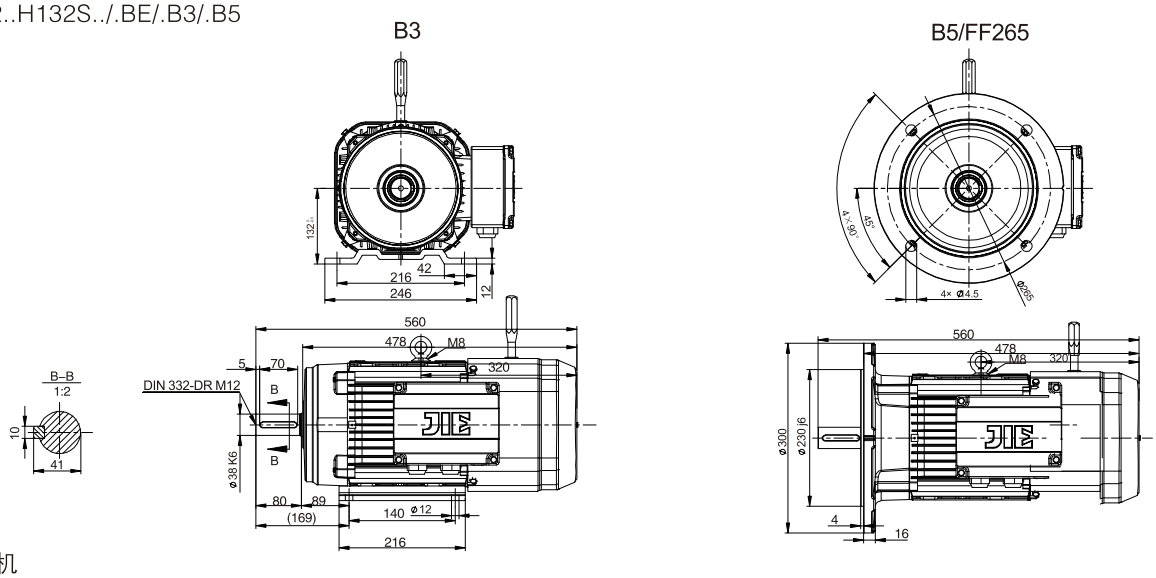
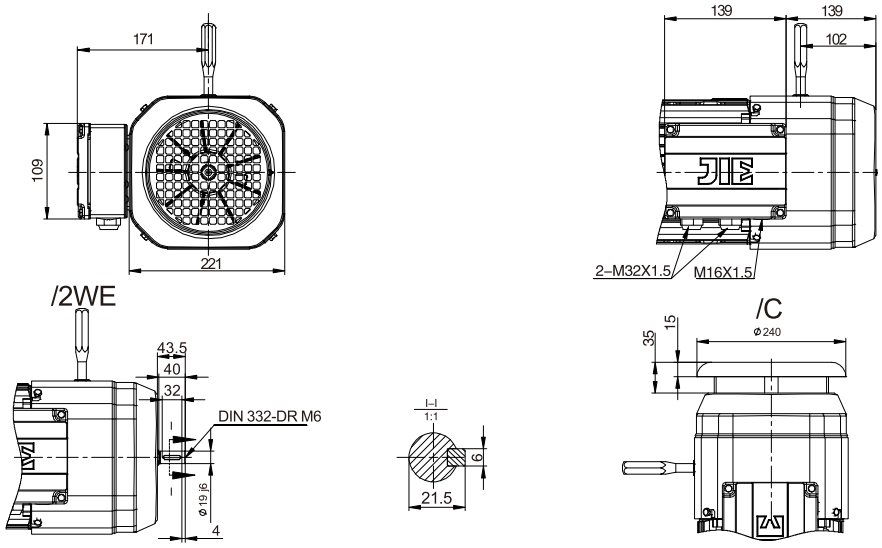


制动电机
Brake motor
JD.132S../.BE/.C/.2WE



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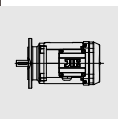

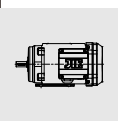

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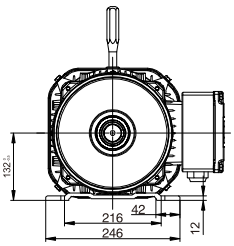
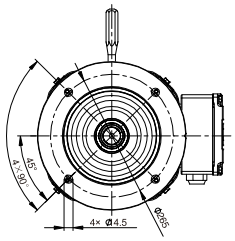
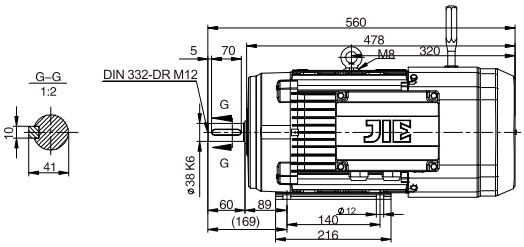
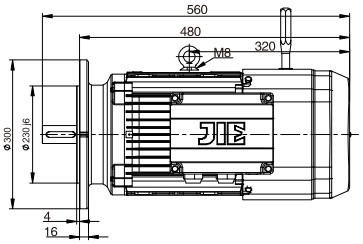


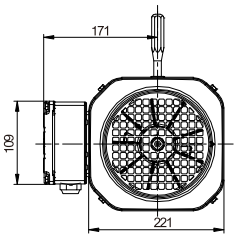
B5/FF265

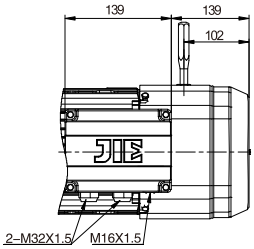






制动电机
Brake motor
JD.132M../.BE/.C/.2WE





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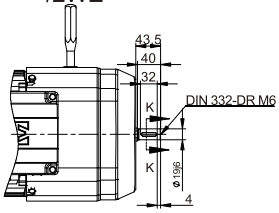

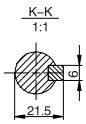

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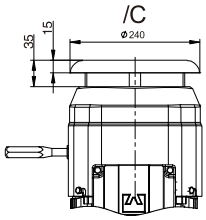

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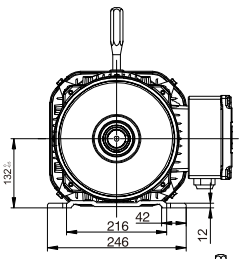
B3



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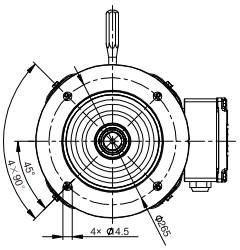
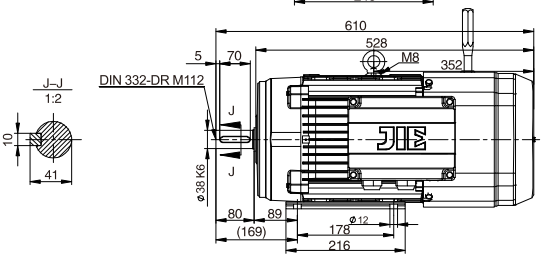
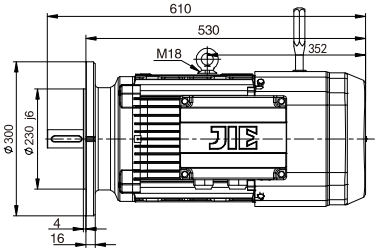
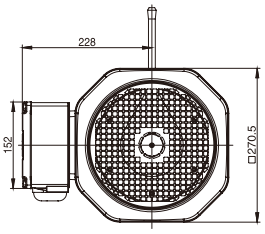
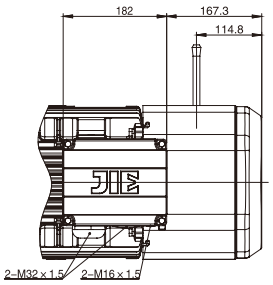






制动电机
Brake motor
JD.160../.BE/.2WE/.C





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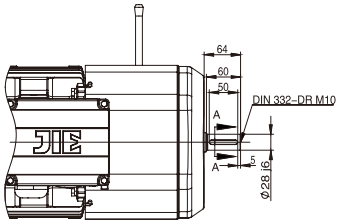

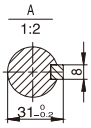

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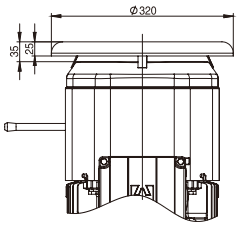

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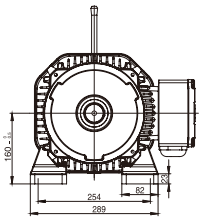
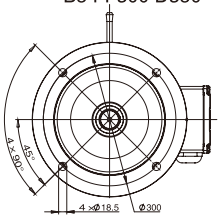
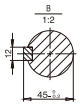
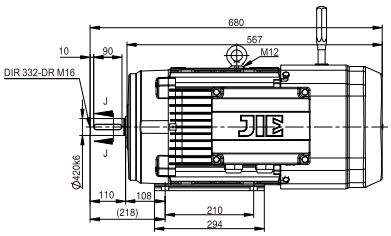
B3

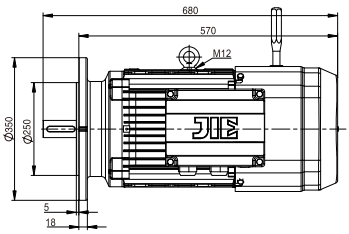


B5 FF300 D350

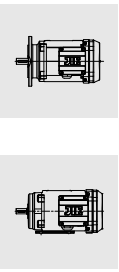


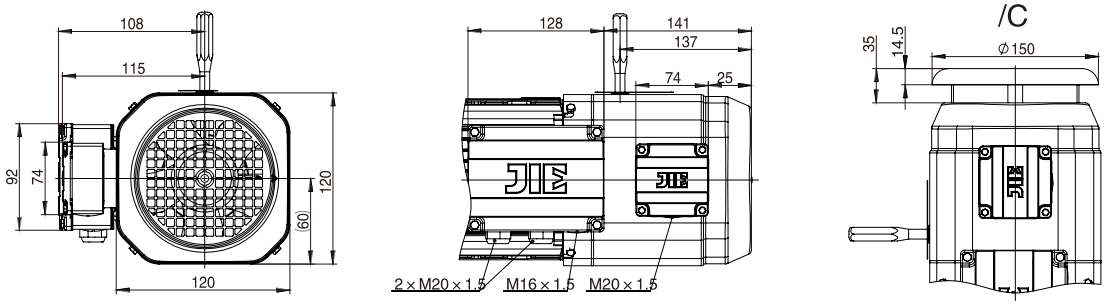






带独立风机电机
Motor With independent fan
JD.63../.BE/.V/.C





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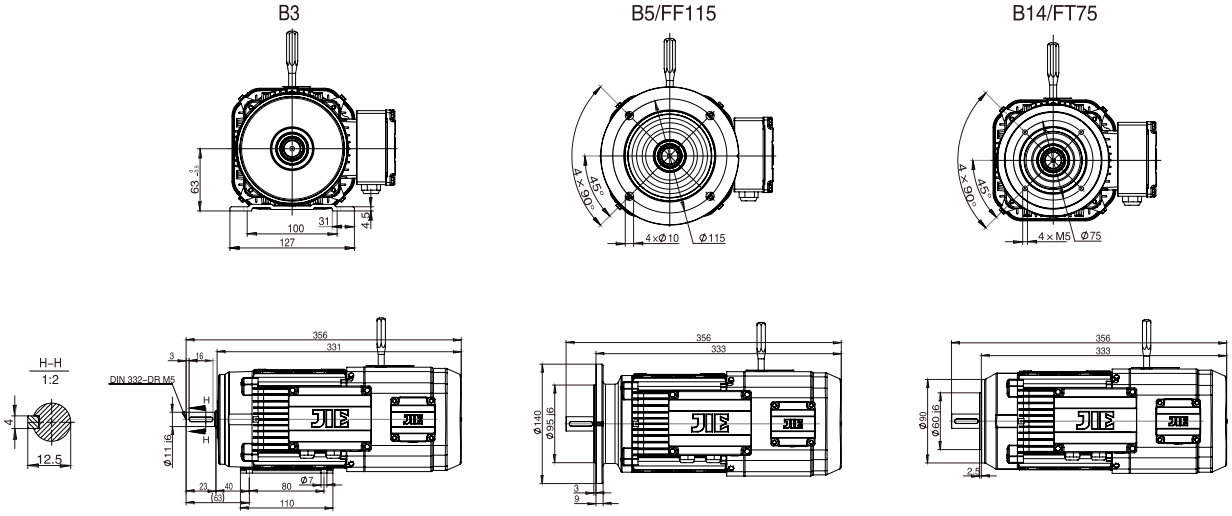

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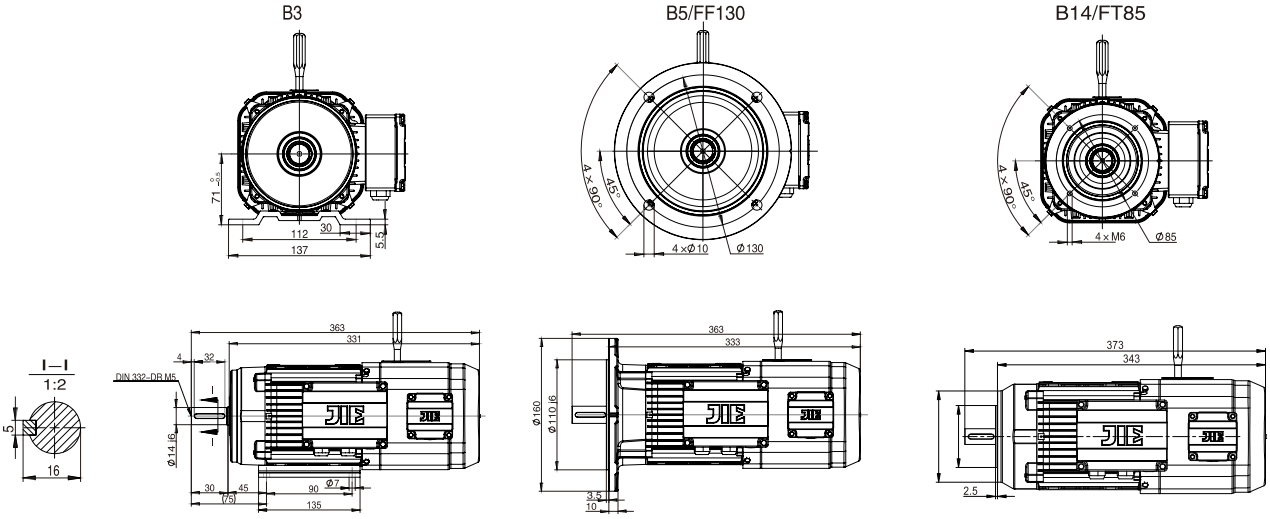
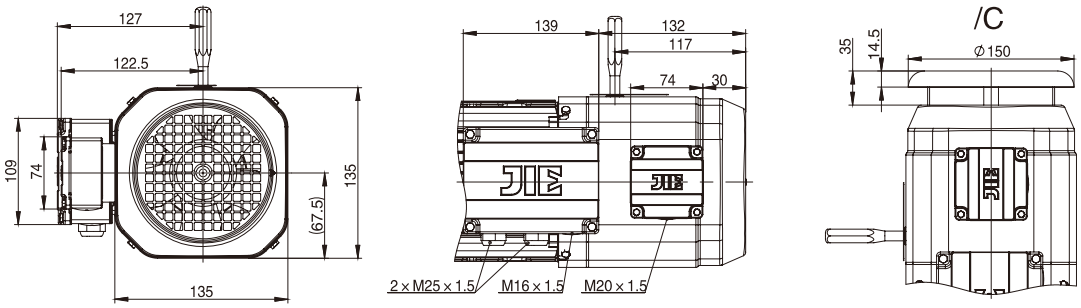


带独立风机电机
Motor With independent fan
JD.71../.BE/.V/.C



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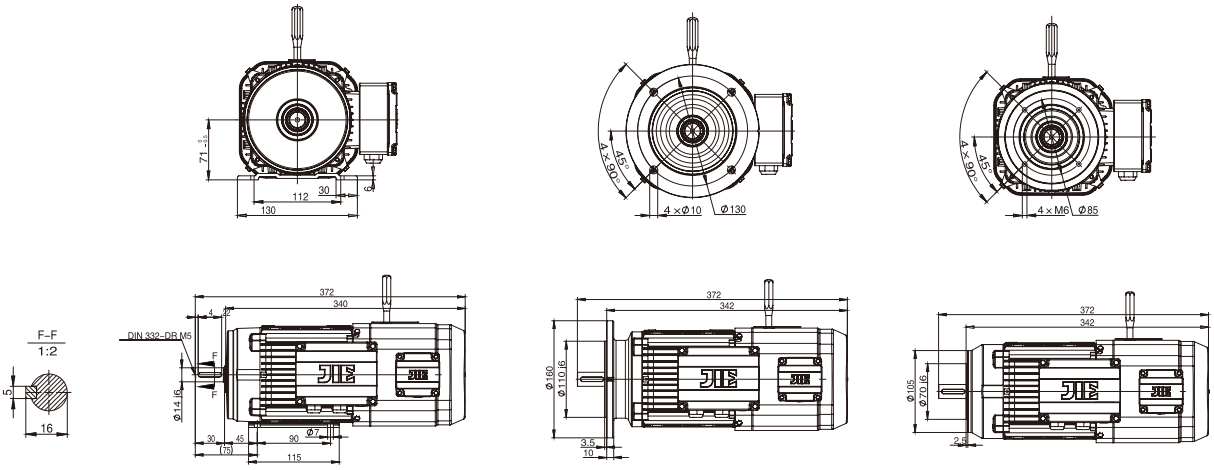

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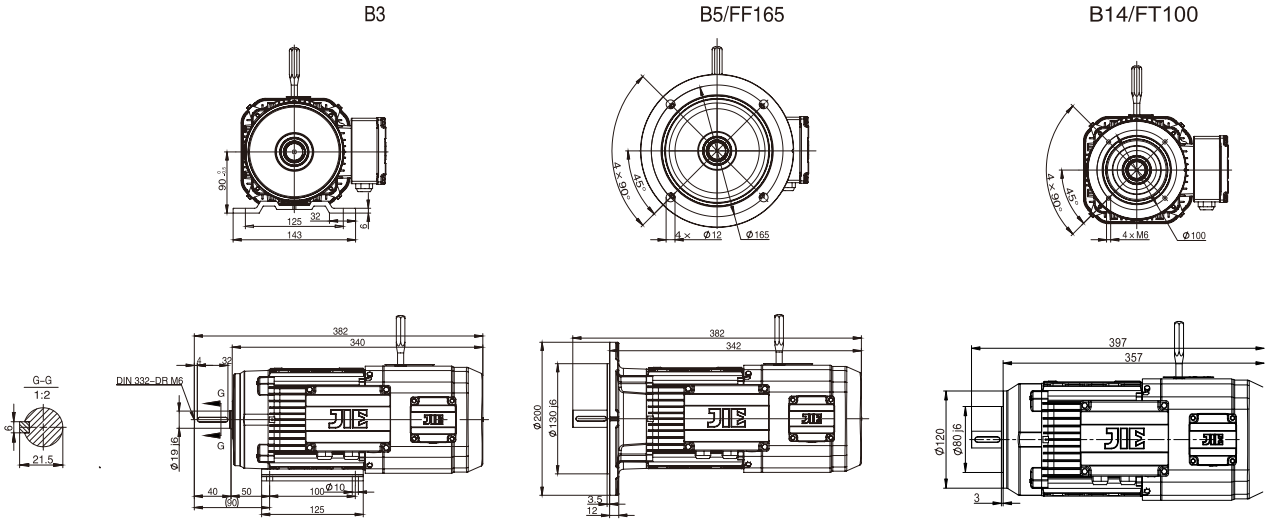
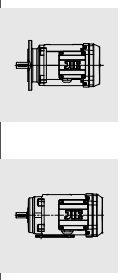
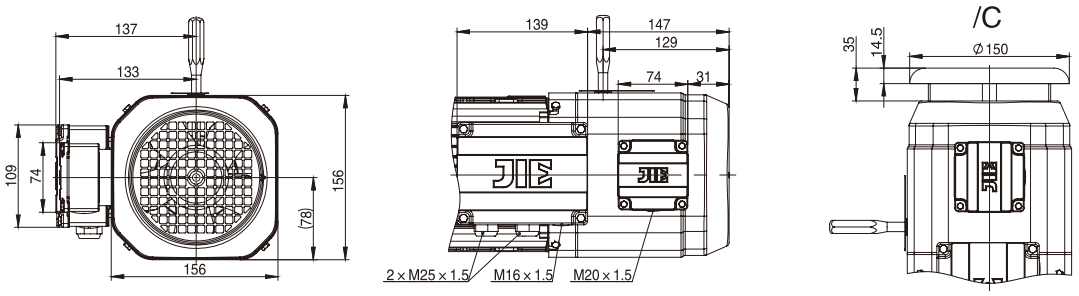


带独立风机电机
Motor With independent fan
JD.80../.BE/.V/.C





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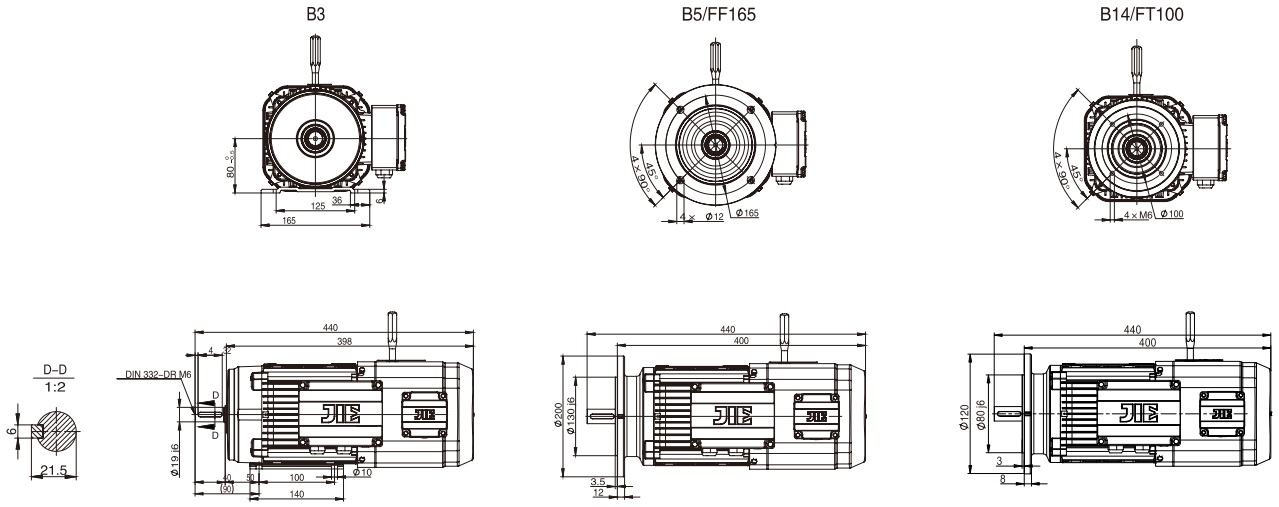

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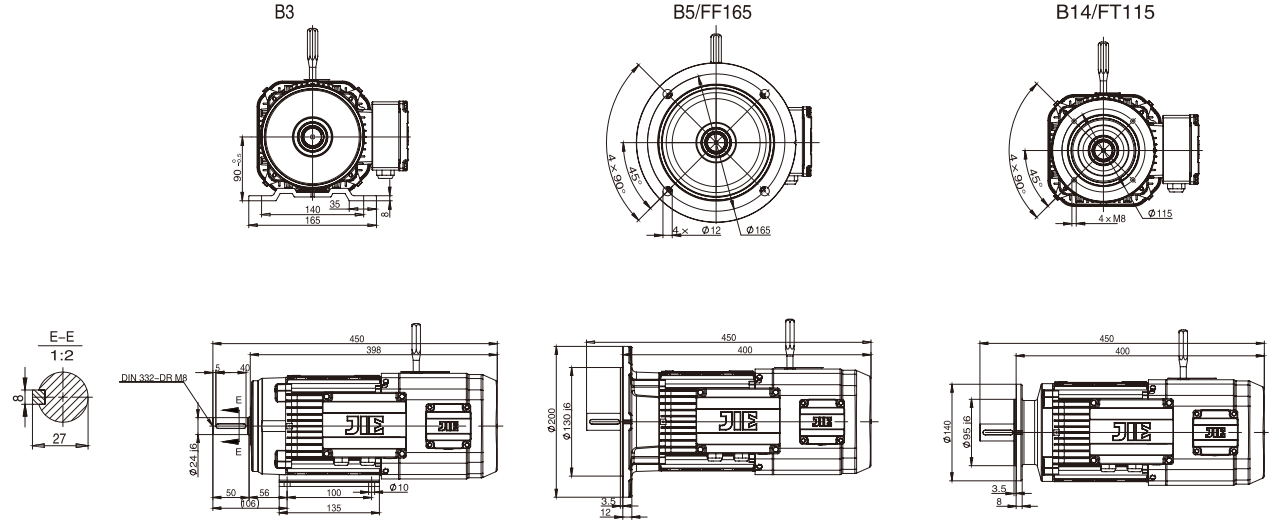
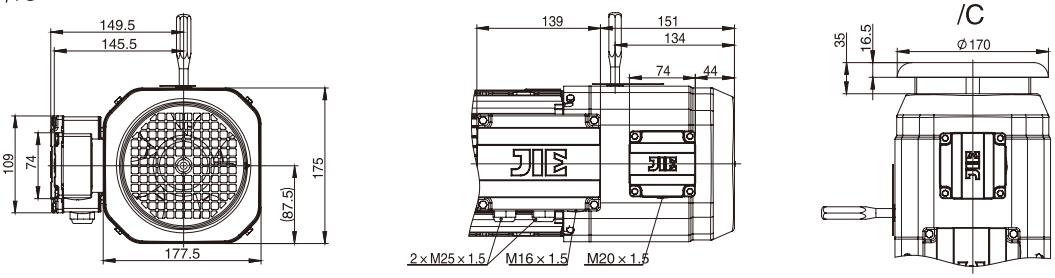
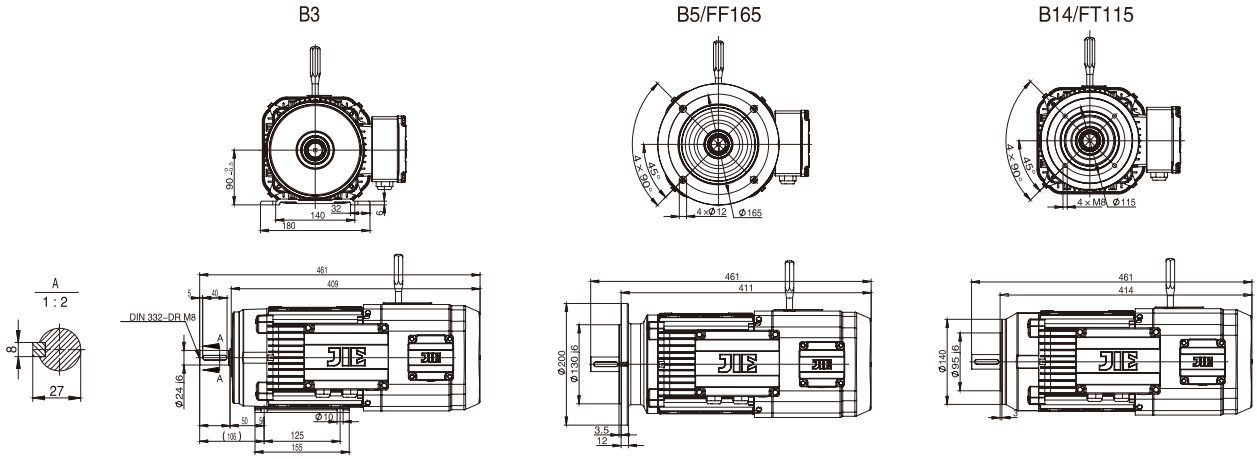


带独立风机电机
Motor With independent fan
JD.90../.BE/.V/.C



JD.90../.BE/.V/.B3/.B5/.B14



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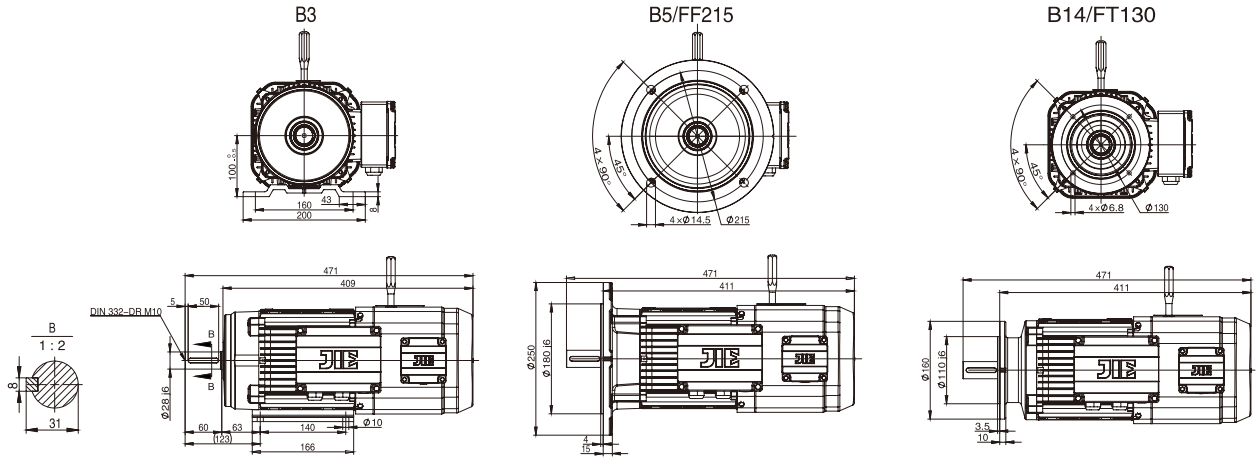
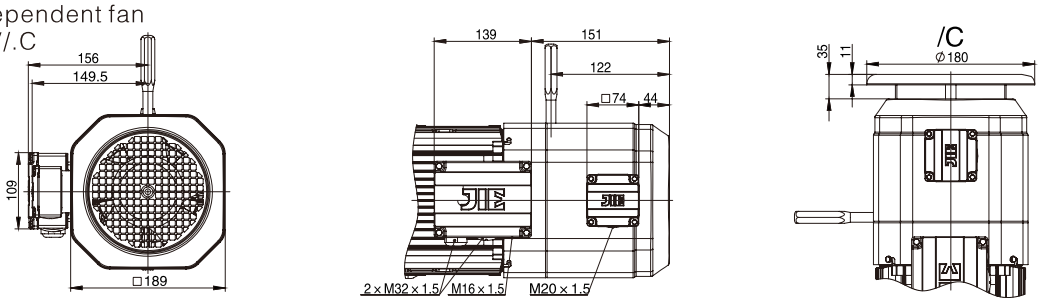
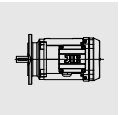
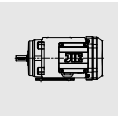


带独立风机电机
Motor With independent fan
JD.100../.BE/.V/.C



JD.100../.BE/.V/B3/.B5/.B14





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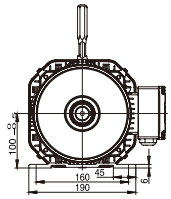

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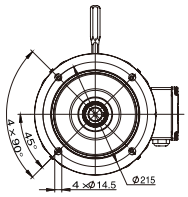

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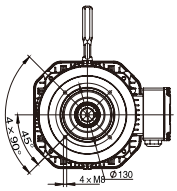
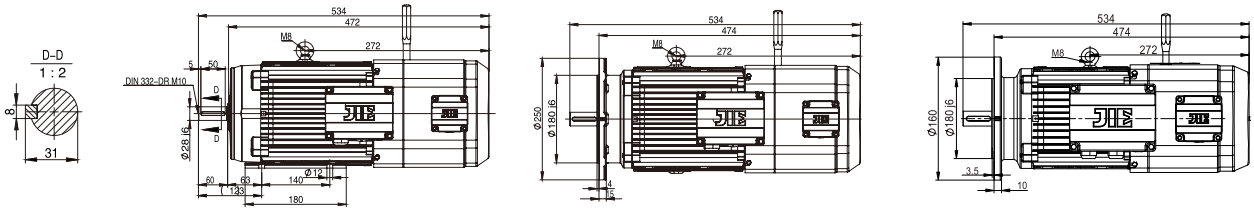
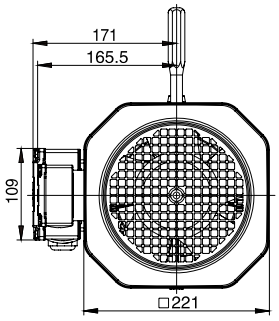
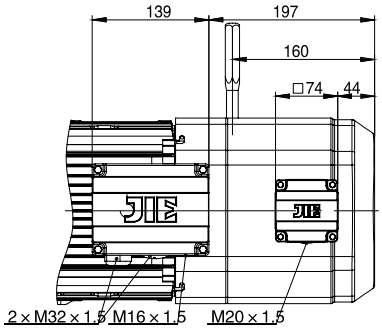
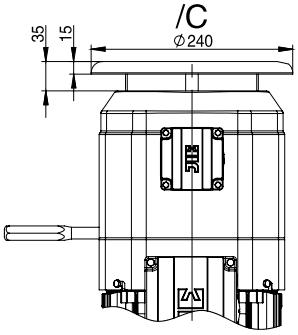




带独立风机电机
Motor With independent fan
JD.112../.BE/.V/.C

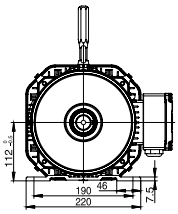






JD.112../.BE/.V/.B3/.B5/.B14

B3



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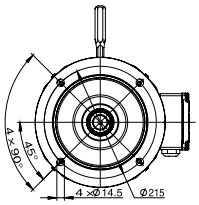

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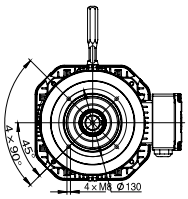
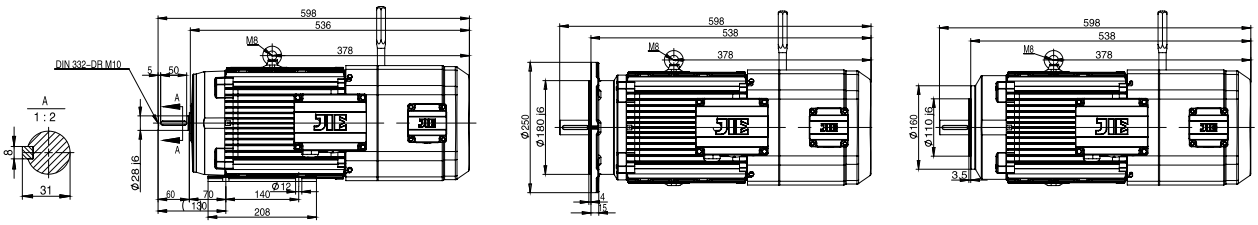
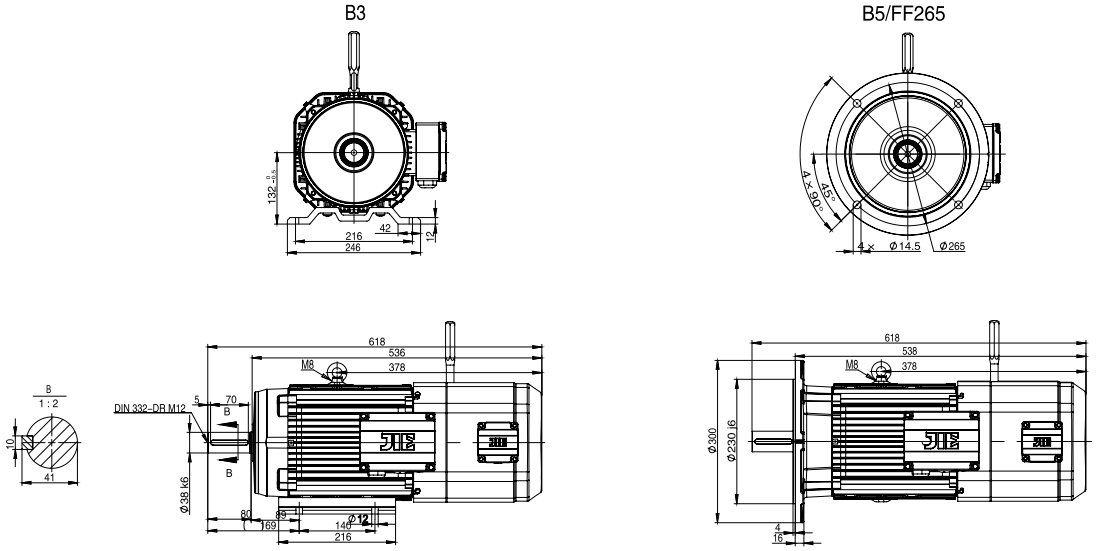
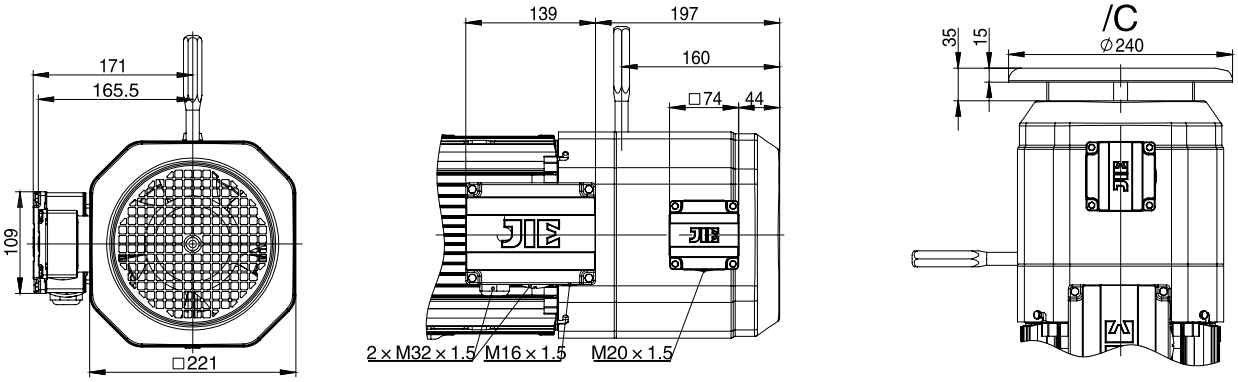




JD.112..H132S../.BE/.V/.B3/.B5



带独立风机电机
Motor With independent fan
JD.132S../.BE/.V/.C



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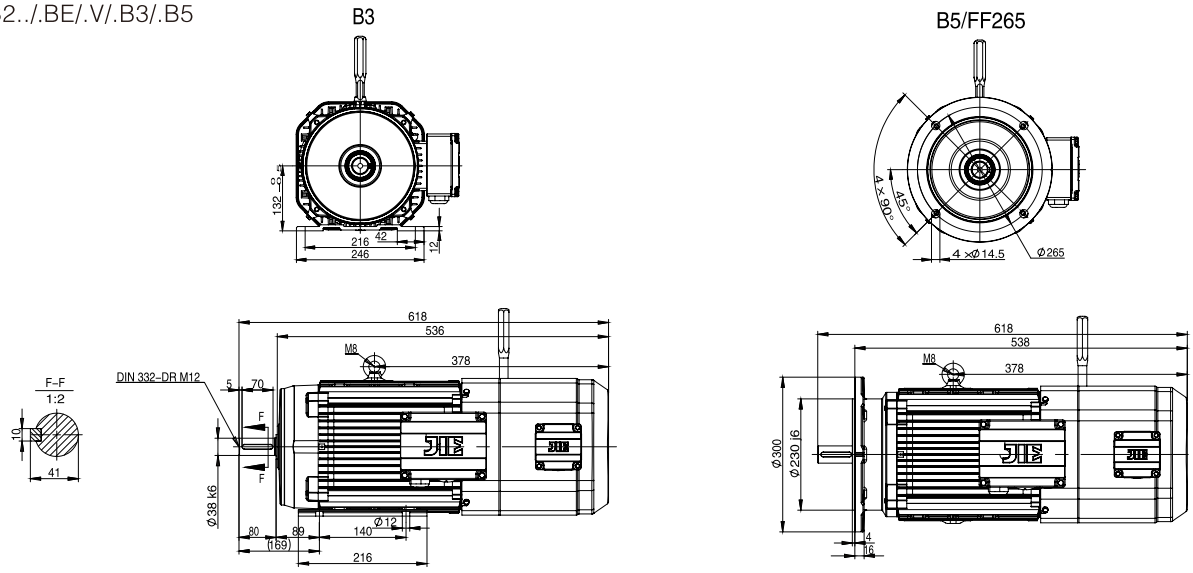
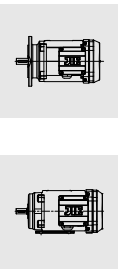
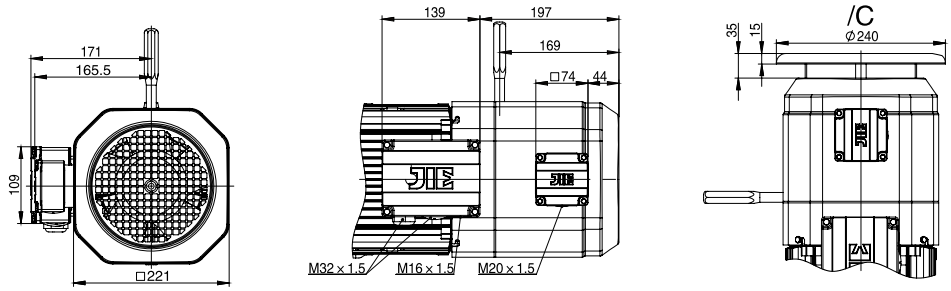


带独立风机电机
Motor With independent fan
JD.132M../.BE/.V/.C





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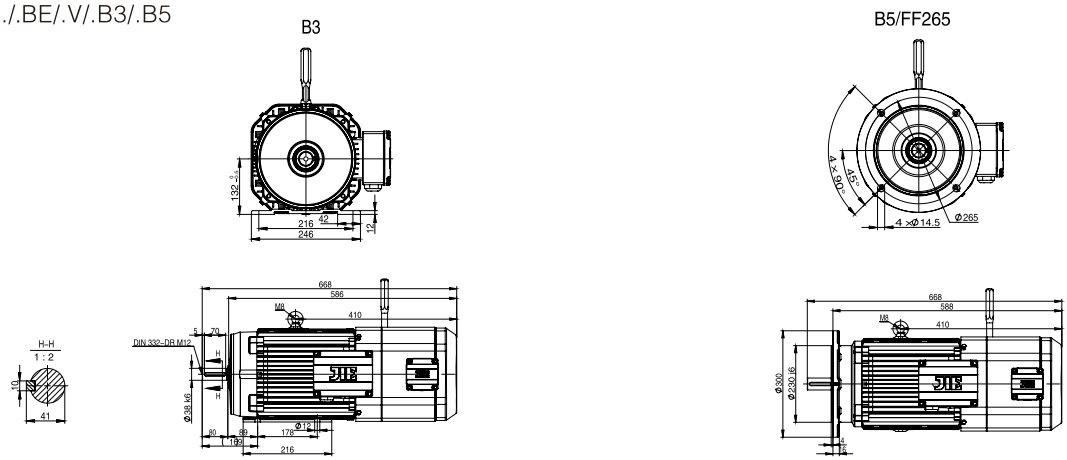
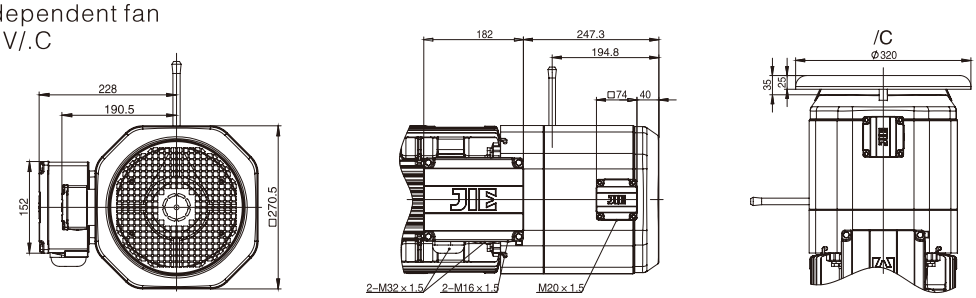


带独立风机电机
Motor With independent fan
JD.160../.BE/.V/.C



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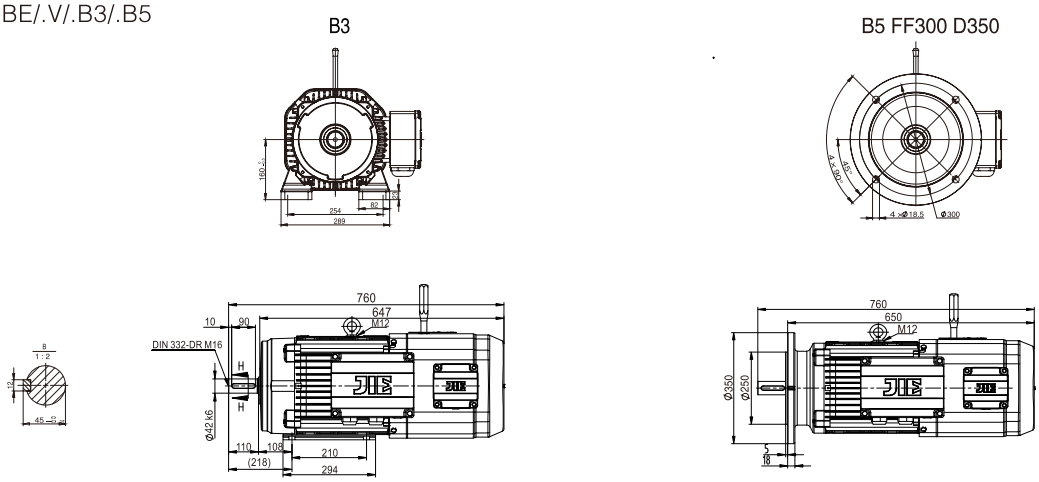
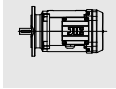
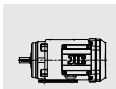






杰牌三相异步电机选型表

电机型号：

1.电机参数：

功率：		KW			频率：		Hz	安装方式：	
额定电压：		△		Y	V	输出转速：		rpm	
能效等级：	3级					2级		1级	
结构方式：	配减		IEC			法兰盘直径：			
绝缘等级：	F		H			轴伸直径：		mm	
冷却方式：	IC410(自然冷却)					IC411(电机自带风扇冷却)			
	IC416(强冷风机)								
工作制：	SI		其它：	描述：					
防护等级：	IP55		IP56			IP65		IP66	
接线盒角度：	0°		90°			180°		270°	
接线盒位置：	N		1			2		3	

电机使用工况描述：使用温度，海拔，空气质量，防腐等级，客户特殊要求（起重，变频）等描述。

2.制动器参数：

制动器电压： V　制动器力矩： N.m　制动频率： 次/min

手动释放装置：　释放手柄： HR　释放螺钉： HF

释放手柄或释放螺钉与接线盒角度（从轴伸端看顺时针）

0°　120°　240°

制动器补充说明：快速，慢速制动，制动寿命，制动响应时间等说明。

3.风机参数：

强冷风机电压： V　频率： Hz　3相：　单相：

风机补充说明：

4.电机附件：

热敏电阻保护装置TF:		温度传感器PT100：		电加热带STH：	
恒温器保护装置TH：		无通风设计U:		高惯量飞轮Z：	
温度传感器KTY84：		防雨罩C：		编码器： ES	
逆止器RS:		加强绝缘RI:		EV	
其它要求：					

JIE three-phase asynchrouous motor selection table

Motor size: _____

1. Motor Parameter

Power:	KW			Frequency:	Hz	Installation mode:	
Rated voltage:	△	Y	V	Output rotation speed:	rpm		
Efficiency grade:	Level 3			Level 2		Level 1	
Structure mode:	Equipped with reducer:	IEC		Flange diameter:			
Insulation grade:	F	H		Shaft diameter:	mm		
Cooling:	IC410(Nature cooling)			IC411 (With fan)			
	IC416(Strong cooling fan)						
Work system:	SI	Others :	Description:				
Protection grade:	IP55	IP56		IP65		IP66	
Junction box angle:	0°	90°		180°		270°	
Junction box position:	N	1		2		3	

Motor work condition : temperature, altitude, air quality ,anticorrosion level, special requirement of customer, etc.

2. Brake parameter

Brake voltage:	V	Brake torque:	N.m	Brake power:	次/min	
Hand release:	Release handle: HR		Release bolt: HF			

Release handle bolt and junction box angle(c.w):

0° ☐ 120° ☐ 240° ☐

Brake Supplement Description: Fast, slow brake, brake life, brake response time, etc.

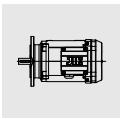
3. Fan parameter

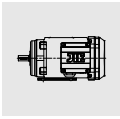
Voltage of strong cooling: ☐ V Frequency: ☐ Hz 3相: ☐ 单相: ☐

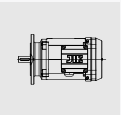
Additional description of fan:

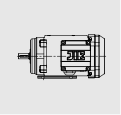
4. Accessory

Thermistor protection device TF:		Temperature sensor PT100:		Electric heating belt STH:	
Thermostat protection deviceTH:		Ventilation design U:		High inertia flywheel Z:	
Temperature sensorKTY84:		Rain cover C:		Encoder: ES	
Backstop RS:		Reinforced insulation RI:		EV	
Other requirement:					









JRT 齿轮减速电机

JRTR 系列
斜齿轮减速电机
规格：17~187
传动比：3.37~289.74
输入功率：0.12~250 kW
输出扭矩：2.4~55435 N.m

JRTF 系列
平行轴-斜齿轮减速电机
规格：37~177
传动比：3.77~281.71
输入功率：0.12~250kW
输出扭矩：3.5~56845N.m

JRH 工业齿轮箱

JRHH 系列
平行轴齿轮箱
规格：4~26
传动比：1.25~450
输入功率：4.3~5082kW
输出扭矩：6100~900000N.m

JRHB 系列
直交轴齿轮箱
规格：4~26
传动比：5~400
输入功率：2.8~2879kW
输出扭矩：6100~900000N.m

JRP 行星齿轮箱

JRP 系列
行星齿轮箱
规格：9~30
传动比：25~4000
输入功率：0.4~5970kW
输出扭矩：22000~1200000N.m

JRPE 系列
行星齿轮箱
规格：010~320
传动比：3.08~3301
输入功率：0.02~111kW
输出扭矩：1000~25000N.m

JRST 蜗杆减速机

JRSTD 系列
蜗杆减速机
规格：25~150
传动比：7.5~100
输入功率：0.06~15kW
输出扭矩：2.6~2670N.m

JRST 系列
蜗杆减速机
规格：25~150
传动比：7.5~100
输入功率：0.1~15kW
输出扭矩：2.6~2670N.m

WP 蜗杆减速机

WPA 系列
蜗杆减速机
规格：40~250
传动比：10~60
输入功率：0.12~33.2kW
输出扭矩：6~6050N.m

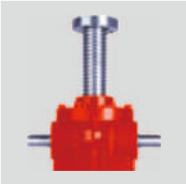
WPS 系列
蜗杆减速机
规格：40~250
传动比：10~60
输入功率：0.12~33.2kW
输出扭矩：6~6050N.m

JD 电动机

JD../P 系列
配减电机
规格：63~315
功率：0.12~200kW
效率：IE2、IE3(0.75~200kW)

JD../E 系列
IEC标准电机
规格：63~315
功率：0.12~200kW
效率：IE2、IE3(0.75~200kW)

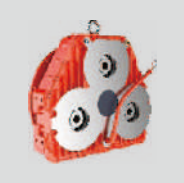
其它减速机



JRSS 系列
丝杆升降机
规格：35~150
传动比：5~40
输入功率：0.19~16.3kW
起升力：500~26050Kg

JRTM 系列
伞齿轮转向器
规格：2~25
传动比：1~5
输入功率：0.014~335kW
输入转速：10~1450r/min

JRGC1501
工程分动箱
传动比：
0.589、0.659、0.756、0.825
输出泵最大扭矩：1390N.m
行走最大扭矩：40000N.m



JRGC1301
工程分动箱
输入功率：400 kW
单泵功率：210 kW
单泵最大转矩：1000N.m
最大输入速度：3500rpm

JRTK 系列
斜齿轮-伞齿轮减速电机
规格：37~187
传动比：3.98~197.37
输入功率：0.12~200kW
输出扭矩：10~62800N.m

JRTS 系列
斜齿轮-蜗轮蜗杆减速电机
规格：37~97
传动比：6.8~288
输入功率：0.12~22kW
输出扭矩：11~4650N.m

JRTRX 系列
斜齿轮减速电机
规格：57~107
传动比：1.3~8.65
输入功率：0.12~45kW
输出扭矩：1.4~990N.m

JRHD 系列
斗式提升机齿轮箱
规格：5~16
传动比：25~71
输入功率：16~1305kW
输出扭矩：11000~173000N.m

JROKE 系列
棕榈油齿轮箱
传动比：56、75、80
输入功率：106、141kW
输出扭矩：75000N.m

JRHA2SV
空冷岛齿轮箱
规格：5~14
传动比：6.3~22.4
输入功率：76~778kW
输出扭矩：10500~107000N.m

JRPH 系列
行星齿轮箱
规格：08~100
传动比：3.4~2000
输入功率：75~250kW
输出扭矩：8000~100000N.m

JRPH 系列
港口机械行星齿轮箱
规格：08~100
传动比：3.4~2000
输入功率：75~250kW
输出扭矩：8000~100000N.m

JRPN 系列
搅拌机行星齿轮箱
规格：11~13
传动比：31.5~100
输入功率：30~75kW
输出扭矩：42000~83000N.m

JRSTDB 系列
蜗杆减速机
规格：25~150
传动比：7.5~100
输入功率：0.06~15kW
输出扭矩：2.6~2670N.m

JRST..-W 系列
蜗杆减速机
规格：25~150
传动比：7.5~100
输入功率：0.1~15kW
输出扭矩：2.6~2670N.m

JRSTD..-U 系列
蜗杆减速机
规格: 25~150
传动比: 7.5~100
输入功率: 0.06~15kW
输出扭矩: 2.6~2670N.m

WPO 系列
蜗杆减速机
规格：40~250
传动比：10~60
输入功率：0.12~33.2kW
输出扭矩：6~6050N.m

WPX 系列
蜗杆减速机
规格：40~250
传动比：10~60
输入功率：0.12~33.2kW
输出扭矩：6~6050N.m

WPW 系列
蜗杆减速机
规格：40~250
传动比：10~60
输入功率：0.12~33.2kW
输出扭矩：6~6050N.m

JD../BE 系列
制动电机
规格：63~315
功率：0.12~200kW
效率：IE2、IE3(0.75~200kW)

JDB.. 系列
防爆电机
规格：80~315
功率：0.75~200kW
防爆等级：Exib II BT4
效率：IE2、IE3

JDC 系列
伺服电机
规格：01~13
功率：0.5~4.2kW
额定扭矩：2~13N.m

JRESR 系列
不锈钢齿轮减速电机
规格：37
传动比：3.41~134.87
输入功率：0.12~3kW
输出扭矩：2.4~200N.m

JRESK 系列
不锈钢齿轮减速电机
规格：37
传动比：3.97~106.38
输入功率：0.12~3kW
输出扭矩：10~200N.m

JRESS 系列
不锈钢蜗杆减速机
规格：40~90
传动比：7.5~100
输入功率：0.09~4kW
输出扭矩：19~458N.m

JEC 系列
电扶梯主机
规格：2~15、2~25
传动比：24.5
效率：≥96%
使用寿命：146000h
输出扭矩：3530~5150N.m

JN 系列
农机齿轮箱
传动比：0.364~2.33
输入转速：800rpm
效率：≥96%

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