



M2QA系列 标准三相异步电动机

Power and productivity
for a better world™



公司简介

上海ABB电机有限公司成立于1995年12月，隶属于世界500强ABB集团，是专门生产和销售低压交流三相异步电动机（机座号71-355）的企业。

公司提供符合IEC标准的各种电机，可满足不同行业需求，其产品包括标准电机、变频电机、船用电机、隔爆电机、烟道电机、多速电机、制动电机、户外电机、无火花电机、铝壳电机、磨头电机。并可提供按客户要求设计的特殊电机，所有设计均可达到客户的严格要求。同时，公司可提供具有不同绝缘等级，并能满足不同电压和频率要求的各种电机。公司主要OEM客户是空调风机、港机及起重机、泵业、减速机、机床、纺织机械、玻璃机械、船用、电厂辅机、电路板机械等行业领先企业。项目覆盖：电厂、制浆造纸、石化、冶金、船舶、港口、建筑、水泥、机场等。目前，公司生产的45%的电机通过ABB国际销售网络出口国外，主要是欧洲市场。

作为中国第一家获得ISO9001质量管理体系认证和ISO14001环境管理体系认证的中小型电机制造厂。上海ABB电机有限公司以其良好的管理和先进的技术，向客户提供世界顶级的ABB产品和服务。



Company Introduction

Founded in December 1995, ABB Shanghai Motors Co., Ltd., belongs to ABB Group, one of the world's Top 500 Corporations, and specializes in manufacturing and marketing low voltage AC 3-phase asynchronous motors of frame size from 71 to 355.

The company offers a wide range of IEC Standard motors to meet the demands of various industries, including Standard Motors, Frequency Conversion Motors, Marine Motors, Flameproof Motors, Smoke Venting Motors, Multi-speed Motors, Brake Motors, Outdoor Environment Motors, Non-sparking Motors, Aluminum Motors, and Motors for Glass Machinery, together with specially customized motors as per customers' demands and meeting customers' stringent requirements. In addition, the company can supply a broad range of motors with various insulation classes, which can meet various voltage and frequency requirements. The company major OEM customers are leaders in HVAC, crane, pump, gearbox, machine tool, textile, glass, marine, power plant auxiliary equipment, circuit board, etc. And its projects cover: power plant, pulp and paper, PEC, metal, marine, port, building, cement, airport, etc. Forty-five percent of its motors are currently exported abroad, mainly to the European market.

As the first small-medium motor manufacturer with ISO9001 Certification and ISO14001 Certification in China, ABB Shanghai Motors Co., Ltd. Provides its customers with world-class ABB products and service with qualified management and advanced technology.



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M2QA 系列突出特点

高效节能，降低运营成本，能够让最终用户在6~18个月内收回高出的采购成本。

可靠性高，保障设备连续平稳运行，故障率低，降低维护成本。

采用NSK或SKF轴承，先进工艺，使电机寿命更长，一次采购，多年受益。

柔性设计，能够根据客户要求加装多种附件。

Outstanding Features of M2QA Motors

High efficiency and energy saving in combination with high reliability reduces the operation costs.

Advanced production technology assures accurate products.

Motors are equipped with NSK or SKF bearings.

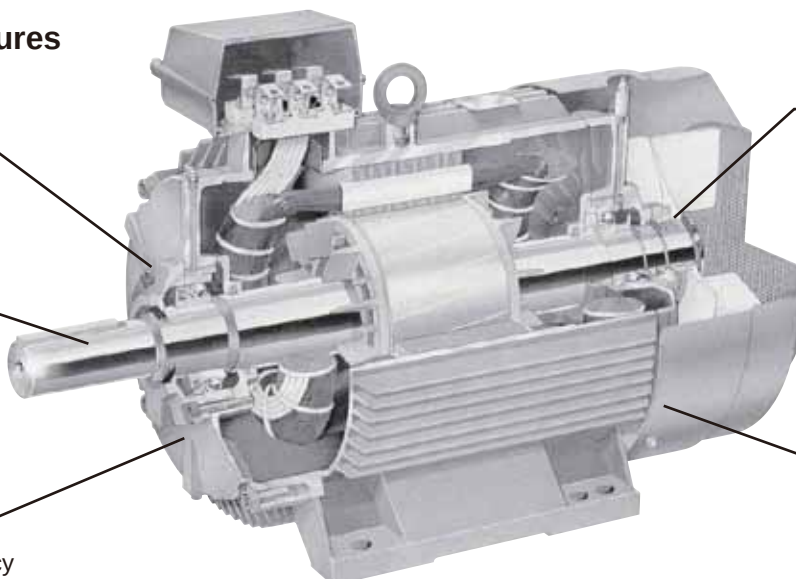
Flexible design with choice of additional accessories fulfills most customers' requirements.

ABB电机产品特点 ABB Motors Features

可靠
High Reliability

高效
High Efficiency

一致
Excellent Consistency



低噪音
Low Noise

高灵活性
High Flexibility

产品概述

M2QA系列标准三相异步电动机 (H71-H355)

M2QA系列标准三相异步电动机是ABB公司2000系列产品中的基本系列，高效可靠，节能环保。该系列电机引进全套欧洲生产工艺，噪音低，寿命长，适用于各种恶劣的环境，被广泛地运用于各行各业。

Summary

M2QA Series Low-voltage Three-phase Induction Motors (H71-H355)

As the standard series of ABB M2000 family, high efficiency assures energy savings, and high reliability reduces the faulty time and the maintenance costs. The motors are designed and manufactured according to European technology, including features such as low noise level and long life cycle. M2QA motors are suitable for various environments and operate in a wide range of different industrial areas.



标准

- ❖ **轴承具有较高承载能力**
配置深沟球轴承，大大延长电动机的工作寿命。71-225 铸铁电动机配有免润滑轴承，250-355电动机标准配置装有注排油装置。
- ❖ **宽电压设计**
高至690V且可应用于50Hz和60Hz电网。
- ❖ **低噪音水平**
M2QA系列通过改善电磁和电气设计、冷却系统及结构优化和技术，使电机的噪音降低到最小程度。
- ❖ **可靠的绕组**
绕组采用最新技术的绝缘材料，可达到F级绝缘和B级温升(80K)，确保绕组具有较长的使用寿命。
- ❖ **防腐蚀能力强**
电动机防腐蚀能力强。可在恶劣的条件下正常运行，使用寿命较长。
- ❖ **额外的绕组保护**
根据客户要求可加装PTC热敏电阻、热敏开关和防冷凝装置。

机械设计

- ❖ **全封闭自扇冷设计，标准防护等级IP55，也可提供IP56或IP65**
重负载设计，同时采用强抗腐蚀铸铁材料，使M2QA系列电动机可适应各种环境。电动机的机械结构极其坚固。
- ❖ **灵活的进线方式**
接线盒可安装在电动机顶部、右侧或左侧。71-132电动机接线盒可旋转4×90°，160-355电动机接线盒可旋转2×180°。所有规格的电动机都易于改装。
- ❖ **强大的改装能力**
电动机针对不同环境及应用有多种可选配置，如更高的防护等级、绝缘等级、重新润滑装置、防尘保护、密封圈、防护罩等等。

Standards

- ❖ **Voltage ranges of extra versatility**
A wide range of voltages can be up to max. 690 V, for 50 Hz and 60 Hz is available.
- ❖ **Reliable windings**
To ensure long lifetime, the windings are made of the latest available materials in class F protection and temperature rise limited to class B(80K) in standard motors.
- ❖ **Strong corrosion protection**
The motors are made to withstand aggressive environment as standard and they are designed for long lifetime. For motors with regreaseable elements, they have strong and effective protection against corrosion.
- ❖ **Bearings with high load capacity**
All motors are provided with deep-groove ball bearings, the lifetime is extended. Cast iron motors in sizes 71-225 are greased for life, and those in sizes 250-355 have a regreasing device as a standard.
- ❖ **Low noise level**
The M2QA range has been designed to minimize motors noise levels by means of improving magnetic and electrical design, ventilating condition, structural assembling size and technology.
- ❖ **Additional winding protection**
PTC thermistors, thermal switches and anticondensation on request.

Mechanical Design

- ❖ **Totally enclosed fan cooled IP55 as standard, IP56 or IP65 as option**
Heavy duty design, manufactured from extra corrosion resistant cast iron materials to be used in all kind of environment. The motor is mechanically very strong and robust.
- ❖ **Flexible cable entry direction**
Terminal boxes are mounted on the top of the motors, right or left. Terminal boxes of motor size 71-132 can rotate 4×90°, and those of 160-355 can rotate 2×180°. All are easy to refit.
- ❖ **Powerful refit available**
The motors satisfy the requirements of a wide range of environments and applications, such as improving protection, insulation level, regreasing facilities, dust-proof, sealing rings, protective roof are available.

绝缘和绝缘等级

IEC 60085标准将绝缘材料分为不同的绝缘等级。每个等级的标识都与该绝缘材料在正常运行情况下所能达到的温度极限值相对应。

一台电动机的绕组绝缘是按电动机内的温升和环境温度而定的。通常根据电动机在额定输出功率和40°C环境温度下的最高温度值确定其绝缘等级。工作温度高于40°C的电动机通常需要重新定级。大多数情况下，ABB电动机在标准额定输出下可达到F级绝缘，B级温升，能够满足当今工业中的绝大多数的要求。

标准电动机按F级绝缘，B级温升(*标记除外)设计。因此，电动机有充分的过负荷裕量。如果能够达到F级温升，则各表中给出的输出功率一般可增加大约12%。

图中的温度极限值符合各标准规定。采用F级绝缘和B级温升设计时，额外的耐热裕度可确保电动机的性能更可靠。

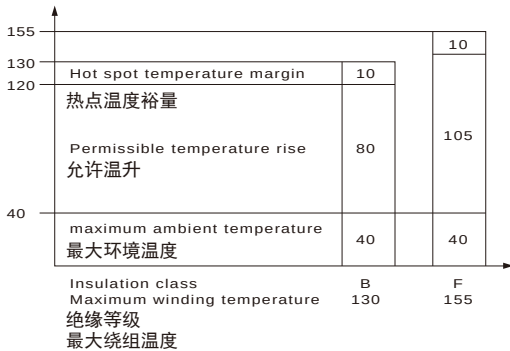
Insulation and Insulation Classes

According to IEC 60085, insulating materials are divided into insulation classes. Each class has a designation corresponding to the temperature that is the upper limit of the range of application of the insulating material under normal operating condition.

The winding insulation of a motor is determined on the basis of the temperature rise in the motor and the ambient temperature. The insulation is normally dimensioned for the hottest point in the motor at its normal rated output and at ambient temperature of 40°C. Motors subjected to ambient temperatures above 40°C will generally have to be derated. In most cases, the standard rated outputs of motors from ABB uses class F insulation systems, which, with temperature rise B, is the most common requirement among industry today.

However, all the motors are designed with class F insulation, which permits a higher temperature rise than class B(*The mark is excluded). The motors, therefore, have a generous over-load margin. If temperature rise to class F is allowed, the outputs given in the tables can generally be increased by about 12%.

Temperature limits are according to standards. The extra thermal margin when using class F insulation with class B temperature rise makes the motors more reliable.



用于其它电压值的电动机

在50Hz频率某一电压下工作的电动机，也可以在其它电压值下运行。下表中给出了电流和转矩换算系数，效率、功率因数和转速略有变化。

如用户需要可提供保证值。

Motors for Other Voltages

Motors wound for a given voltage at 50Hz can also be used for other voltage. Recalculation factors for current and torque are given below, efficiency, power factor and speed remain. Approximately the same.

Guaranteed values available on request.

电动机额定电压 Motor wound for	230V		400V		500V		690V	
连接到50Hz Connected to 50Hz	220V	230V	380V	415V	500V	550V	660V	690V
电动机性能值(400V, 50Hz), % % of values at 400V, 50Hz								
输出功率 Output	100	100	100	100	100	100	100	100
IN	182	174	105	98	80	75	61	58
Is/IN	90	100	90	106	100	119	90	100
Ts/TN	90	100	90	106	100	119	90	100
Tmax/TN	90	100	90	106	100	119	90	100

在60Hz频率某一电压下工作的电动机，也可以在其它电压值下运行。右表中给出了电流和转矩的近似换算系数，效率、功率因数和转速略有变化。
如用户需要可提供保证值。

Motors wound for a given voltage at 60Hz can also be used for other voltages. Approximate recalculation factors for current and torque given are beside; efficiency, power factor and speed remain approximately the same.
Guaranteed values available on request.

电动机额定电压 Motor wound for	460V		575V
连接到60Hz Connected to 60Hz	440V	480V	575V
电动机性能值(460V, 60Hz), % % of values at 460V. 60Hz			
输出功率 Output	100	100	100
IN	105	96	80
Is/IN	90	109	100
Ts/TN	90	109	100
Tmax/TN	90	109	100

轴承和接线盒

下表列出了标准配置下的单列深沟球轴承。71-225标配封闭轴承，250-355标配开启式轴承。接线盒安装在电动机的顶部。71-132电动机的接线盒可旋转4×90°，160-355电动机的接线盒可旋转2×180°。标准接线盒的防护等级为IP55。电动机标准配有2个电缆接口见下。

Bearings and Terminal Boxes

The motors are normally fitted with single-row deep groove ball bearings as listed in the table below. Close-type bearing is provided as standard for 71-255, regreasable bearing for 250-355. Terminal boxes are mounted on top of the motor. The terminal box of motor sizes 71 to 132 can be turned 4 x 90° and in motors sizes 160 to 355 rotated 2 x 180°. Degree of protection of the standard terminal box is IP55. The motors are supplied with 2 cable entries as a standard according to the table below.

型号	极数	标准 驱动端		轴承型号 非驱动端		电缆接口 mm	型号	极数	标准 驱动端		轴承型号 非驱动端		电缆接线孔口 mm
Type	Poles	Standard D-end		bearing N-end	type	Cable entry mm	Type	Poles	Standard D-end		bearing N-end	type	Cable entry mm
71M	2, 4, 6	6202	C3	6202	C3	2-M16 X 1.5	250M	2	6314	C3	6214	C3	2-M63 X 1.5
80M	2, 4, 6, 8	6204	C3	6204	C3	2-M25 X 1.5	250M	4, 6, 8	6314	C3	6214	C3	2-M63 X 1.5
90S	2, 4, 6, 8	6205	C3	6205	C3	2-M25 X 1.5	280S	2	6316	C4	6316	C4	2-M63 X 1.5
90L	2, 4, 6	6205	C3	6205	C3	2-M25 X 1.5	280S	4, 6, 8	6316	C3	6316	C3	2-M63 X 1.5
100L	2, 4, 6, 8	6206	C3	6206	C3	2-M32 X 1.5	280M	2	6316	C4	6316	C4	2-M63 X 1.5
112M	2, 4, 6, 8	6207	C3	6206	C3	2-M32 X 1.5	280M	4, 6, 8	6316	C3	6316	C3	2-M63 X 1.5
132S	2, 4, 6, 8	6208	C3	6207	C3	2-M32 X 1.5	315S	2	6316	C4	6316	C4	2-M63 X 1.5
132M	2, 4, 6, 8	6208	C3	6207	C3	2-M32 X 1.5	315S	4, 6, 8	6319	C3	6319	C3	2-M63 X 1.5
160M	2, 4, 6, 8	6309	C3	6209	C3	2-M40 X 1.5	315M	2	6316	C4	6316	C4	2-M63 X 1.5
160L	2, 4, 6, 8	6309	C3	6209	C3	2-M40 X 1.5	315M	4, 6, 8	6319	C3	6319	C3	2-M63 X 1.5
180M	2, 4, 6, 8	6310	C3	6210	C3	2-M40 X 1.5	315L	2	6316	C4	6316	C4	2-M63 X 1.5
180L	2, 4, 6, 8	6310	C3	6210	C3	2-M40 X 1.5	315L	4, 6, 8	6319	C3	6319	C3	2-M63 X 1.5
200L	2, 4, 6, 8	6312	C3	6212	C3	2-M50 X 1.5	355M	2	6319M	C4	6319M	C4	2-M63 X 1.5
225S	4, 6, 8	6313	C3	6213	C3	2-M50 X 1.5	355M	4, 6, 8	6322	C3	6319	C3	2-M63 X 1.5
225M	2	6313	C3	6213	C3	2-M50 X 1.5	355L	2	6319M	C4	6319M	C4	2-M63 X 1.5
225M	4, 6, 8	6313	C3	6213	C3	2-M50 X 1.5	355L	4, 6, 8	6322	C3	6319	C3	2-M63 X 1.5

* 注：详见24-25页。
*Note: see page 24-25 for detail.

电动机铭牌

71-132电动机铭牌上标有电压范围的一个电流值，这是电动机在达到规定输出功率时，电压范围内产生的最大电流值。

Rating Plate

For motor sizes 71 to 132 the rating plate gives one current value for the voltage area. That is the highest current that can occur within the voltage area with the given output.

		ABB Motors					
3~Mot. M2QA132S4A					IEC60034-1		
3GQA132101-BSA					Cl. F IP 55		
6208 DDU/C3				6207 DDU/C3		Date 2012.2	
V	Hz	r/min	kW	cosφ	A		
220-240 Δ	50	1435	5.5	0.82	20.1		
380-420 Y	50	1435	5.5	0.82	11.6		
440-480 Y	60	1735	6.33	0.82	11.4	kg	
No. 3GC11500123456							

ABB		ABB Motors				
3~Mot. M2QA132S4A					IEC60034-1	
3GQA132101-BDA					Cl. F IP 55	
6208 DDU/C3					6207 DDU/C3	
					Date 2012.2	
V	Hz	r/min	kW	cosφ	A	
380-420 Δ	50	1435	5.5	0.82	11.6	
660-690 Y	50	1435	5.5	0.82	6.68	
440-480 Δ	60	1735	6.33	0.82	11.4	kg
No. 3GC11500123456						

M2QA71-132

160-355的电动机铭牌上以表格形式给出了6个电压值的转速、电流和功率因数。

For motor size 160 to 355 the rating plate is in table form giving values for speed, current and power factor for six voltages.

 ABB Motors 									
3 motor M2QA250M4A									
IEC 250M65 									
S1					No.3GC11500123456				
Cert.no.					Ins.cl. F		IP 55		
V	Hz	kW	r/min	A	cosφ	IA/IN	tE/s		
690 Y	50	55	1475	56.0	0.88				
400 Δ	50	55	1475	96.6	0.88				
660 Y	50	55	1475	57.9	0.89				
380 Δ	50	55	1475	101	0.89				
415 Δ	50	55	1480	94.1	0.87				
440 Δ	60	63	1775	99.3	0.89				
Cat.no 3GQA252301-ADA									
6314/C3 				6214/C3			kg		
 Date 2012.2					IEC 60034-1 				

M2QA160-355

滑轮直径

确定所需的轴承工作寿命以后，可用FR按下面的公式计算出允许的最小滑轮直径：

$$D = \frac{1.9 \cdot 10^7 \cdot K \cdot P}{n \cdot F_R}$$

式中：

D=滑轮直径，mm

P=功率要求，kW

n=电动机转速，r/min

K=皮带张紧系数，视皮带型式和荷载型式而定，三角带的公共系数为2.5

FR=允许的径向力

Pulley Diameter

When the desired bearing life has been determined, the minimum permissible pulley diameter can be calculated using FR, as follows;

$$D = \frac{1.9 \cdot 10^7 \cdot K \cdot P}{n \cdot F_R}$$

where:

D=diameter of pulley, mm

P=power requirement, kW

n=motor speed, r/min

K=belt tension factor, dependent on belt type and type of duty.

A common value for V-belts is 2.5.

FR=permissible radial force

轴端的允许荷载

下表给出的允许径向力(N)假定轴向力为零。以数据是50Hz的正常条件，71-355电动机的轴承工作寿命为20000小时和40000小时为依据。

IM B3底脚式安装的电动机使作用力向两侧延伸。

有些情况下，轴的强度会影响能够承载的允许作用力。额定频率为60Hz时，这些值必须减少10%。如果是双速电动机，则必须以更高的转速为计算依据。根据用户要求可提供径向力和轴向力同时存在时的允许荷载。

Permissible Loadings on the Shaft End

The tables below give the permissible radial force in newton, assuming zero axial force. The values are based on normal conditions at 50 Hz and calculated bearing lives for motor size 71 to 355 of 20000 hours and 40000 hours.

Motors are foot-mounted IM B3 version with force directed sideways.

In some cases the strength of the shaft affects the permissible forces. At 60Hz the values must be reduced by 10%. For two-speed motors, the values must be based on the higher speed.

Permissible loads of simultaneous radial and axial forces will be supplied on request.

允许的径向力

71-355电动机

Permissible Radial Forces

Motors sizes 71 to 355

Motor size	20000 hours Ball bearings								40000 hours Ball bearings							
	2-pole		4-pole		6-pole		8-pole		2-pole		4-pole		6-pole		8-pole	
	X ₀	X _{max}	X ₀	X _{max}	X ₀	X _{max}	X ₀	X _{max}	X ₀	X _{max}	X ₀	X _{max}	X ₀	X _{max}	X ₀	X _{max}
	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
71M	381.1	322.2	479.6	405.4	555.1	469.2	-	-	302.5	255.7	380.7	321.8	440.5	372.4	-	-
80M	624.2	509.4	788.3	643.3	906.7	739.9	996.7	813.4	495.4	404.3	625.7	510.6	719.6	587.3	791.1	645.6
90S	686.0	542.2	869.5	687.2	1000.1	790.4	1095.4	865.8	544.5	430.4	690.1	545.4	793.8	627.3	869.5	687.2
90L	696.4	564.2	884.7	716.8	1015.1	822.5	1112.0	901.0	552.7	447.8	702.2	568.9	805.7	652.8	882.6	715.1
100L	979.4	784.8	1233.9	988.8	1419.1	1137.2	1565.7	1254.6	777.3	622.9	979.4	784.8	1126.4	902.6	1242.7	995.8
112M	1257.8	1014.4	1592.1	1283.9	1831.1	1476.7	2020.1	1629.1	998.3	805.1	1263.6	1019.1	1453.3	1172.0	1603.4	1293.1
132S	1435.0	1121.7	1820.5	1423.1	2079.1	1625.3	2299.1	1797.2	1138.9	890.3	1444.9	1129.5	1650.2	1290.0	1824.8	1426.5
132M	-	-	1840.2	1476.3	2106.5	1689.9	2329.4	1868.7	-	-	1460.6	1171.7	1672.0	1341.3	1848.8	1483.2
160M	2018.8	2597.8	2546.4	3276.8	2918.2	3755.3	3223.0	4147.5	1602.3	2061.9	2021.1	2600.8	2316.2	2980.5	2558.1	3291.9
160L	2091.3	2629.4	2637.8	3316.6	3023.0	3800.9	3338.8	4197.9	1659.8	2086.9	2093.7	2632.4	2399.4	3016.8	2650.0	3331.9
180M	2983.6	2371.3	3759.1	2987.7	-	-	-	-	2368.1	1882.1	2983.6	2371.3	-	-	-	-
180L	-	-	3801.5	3073.0	4351.6	3517.7	4800.4	3880.5	-	-	3017.2	2439.0	3453.9	2792.0	3810.1	3080.0
200L	4089.8	3376.8	5161.5	4261.7	5908.5	4878.5	6517.9	5381.7	3246.1	2680.2	4096.7	3382.6	4689.6	3872.1	5173.3	4271.5
225S	-	-	5762.8	4526.4	-	-	7260.7	5702.9	-	-	4574.0	3592.6	-	-	5762.8	4526.4
225M	4591.0	3811.1	5790.9	4594.2	6643.9	5271.0	7260.7	5788.4	3643.9	3024.9	4596.2	3646.4	5273.3	4183.6	5790.9	4594.2
250M	5111.6	4170.0	6439.9	5253.6	7388.1	6027.2	8113.0	6618.5	4057.0	3309.7	5111.1	4169.6	5863.7	4783.5	6438.9	5252.8
280S	6000.2	4956.7	7570.1	6253.5	8679.2	7169.8	9573.5	7878.8	4761.8	3933.7	6007.7	4962.9	6888.0	5690.1	7569.1	6252.7
280M	6048.5	5059.3	7631.5	6383.4	8750.0	7318.9	9615.4	8042.8	4799.8	4014.8	6056.1	5065.6	6943.7	5808.1	7630.5	6382.5
315S	6602.4	5627.1	9533.5	7882.0	10916.1	9025.1	12028.5	9944.8	5239.0	4465.1	7565.3	6254.8	8662.6	7162.0	9545.4	7891.8
315M	6677.1	5793.3	9647.8	8145.0	11047.2	9326.4	12173.2	10277.0	5297.9	4596.7	7655.6	6463.1	8766.3	7400.7	965938	8155.1
315L	6675.9	5792.3	9648.0	8145.1	11045.3	9324.7	12171.2	10275.3	5296.6	4595.6	7655.4	6462.9	8764.6	7399.1	9657.9	8153.5
355M	8280.0	6790.0	14060.0	11529.0	16089.0	13193.0	-	-	5612.0	4602.0	11100.0	9102.0	12741.0	10448.0	-	-
355L	8372.0	6865.0	14136.0	11592.0	16175.0	13264.0	-	-	5612.0	4652.0	11100.0	9213.0	12741.0	10575.0	-	-

径向力位于X₀和X_{max}之间时，按照下面的公式计算允许的作用力

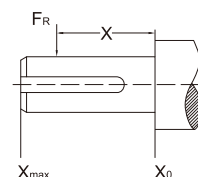
$$F_R = F_{X_0} - X/E(F_{X_0} - F_{X_{max}})$$

E=基本型号的轴伸长度

If the radial force is applied between points X₀ and X_{max}, the permissible force F_R can be calculated from the following formula:

$$F_R = F_{X_0} - X/E(F_{X_0} - F_{X_{max}})$$

E=length of shaft extension in basic version



允许的轴向力

下表给出的允许轴向力(N) 假定径向力为零。以在50Hz额定频率下正常运行，轴承寿命为20000小时和40000小时为依据。

额定频率为60Hz时，这些值必须减少10%。如果是双速电动机，则必须以更高的转速为计算依据。根据用户要求可提供径向力和轴向力同时存在时的允许荷载。

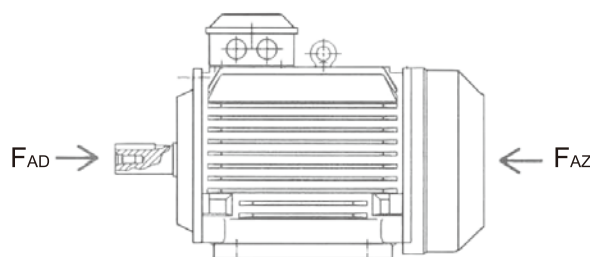
施加轴向力 F_{AD} 时假定驱动端轴承用档圈锁定。

Permissible Axial Forces

The following tables give the permissible axial forces in Newton, assuming zero radial force. The values are based on normal conditions at 50Hz with standard bearings and calculated bearing life time of 20000 and 40000 hours.

At 60Hz the values are to be reduced by 10%. For two-speed motors, the values are to be based on the higher speed. The permissible loads of simultaneous radial and axial forces will be supplied on request.

Given axial forces F_{AD} , assumes D-bearing locked by means of locking ring.



IMB3安装型式 Mounting Arrangement IMB3

	20000 hours Ball bearings								40000 hours Ball bearings							
	2-pole		4-pole		6-pole		8-pole		2-pole		4-pole		6-pole		8-pole	
Motor size	F_{AD} N	F_{AZ} N	F_{AD} N	F_{AZ} N	F_{AD} N	F_{AZ} N	F_{AD} N	F_{AZ} N	F_{AD} N	F_{AZ} N	F_{AD} N	F_{AZ} N	F_{AD} N	F_{AZ} N	F_{AD} N	F_{AZ} N
71M	268.3	268.3	362.9	362.9	438.6	438.6	-	-	198.6	198.6	267.8	267.8	325.0	325.0	-	-
80M	434.8	434.8	592.9	592.9	712.6	712.6	804.0	804.0	320.6	320.6	436.1	436.1	528.4	528.4	595.6	595.6
90S	471.8	471.8	647.0	647.0	778.2	778.2	873.0	873.0	347.1	347.1	475.4	475.4	576.4	576.4	647.0	647.0
90L	471.8	471.8	648.9	648.9	778.2	778.2	873.0	873.0	347.7	347.7	477.0	477.0	576.4	576.4	647.0	647.0
100L	648.3	648.3	883.7	883.7	1058.3	1058.3	1202.6	1202.6	475.6	475.6	648.3	648.3	781.5	781.5	891.5	891.5
112M	843.0	843.0	1157.0	1157.0	1382.8	1382.8	1574.2	1574.2	617.1	617.1	848.0	848.0	1019.4	1019.4	1167.3	1167.3
132S	947.2	947.2	1302.3	1302.3	1542.7	1542.7	1764.0	1764.0	692.5	692.5	955.5	955.5	1135.8	1135.8	1306.7	1306.7
132M	-	-	1297.9	1297.9	1542.7	1542.7	1764.0	1764.0	-	-	952.6	952.6	1135.8	1135.8	1306.7	1306.7
160M	1669.1	1669.1	2272.0	2272.0	2721.6	2721.6	3090.1	3090.1	1238.2	1238.2	1671.8	1671.8	2003.5	2003.5	2286.2	2286.2
160L	1669.1	1669.1	2272.0	2272.0	2721.6	2721.6	3090.1	3090.1	1238.2	1238.2	1671.8	1671.8	2003.5	2003.5	2286.2	2286.2
180M	1972.9	1972.9	2665.0	2665.0	-	-	-	-	1441.7	1441.7	1972.9	1972.9	-	-	-	-
180L	-	-	2665.0	2665.0	3197.1	3197.1	3626.4	3626.4	-	-	1972.9	1972.9	2346.4	2346.4	2673.2	2673.2
200L	2569.6	2569.6	3489.1	3489.1	4197.9	4197.9	4754.7	4754.7	1882	1882	2575.9	2575.9	3077.9	3077.9	3499.8	3499.8
225S	-	-	3904.5	3904.5	-	-	5309.0	5309.0	-	-	2878.0	2878.0	-	-	3904.5	3904.5
225M	2873.4	2873.4	3904.5	3904.5	4718.4	4718.4	5309.0	5309.0	2117.4	2117.4	2878.0	2878.0	3457.5	3457.5	3904.5	3904.5
250M	3225.3	3225.3	4378.4	4378.4	5293.1	5293.1	5955.9	5955.9	2379.2	2379.2	3225.3	3225.3	3879.3	3879.3	4378.4	4378.4
280S	3714.9	3714.9	5007.7	5007.7	6087.7	6087.7	6924.2	6924.2	2766.7	2766.7	3721.9	3721.9	4509.5	4509.5	5077.7	5077.7
280M	3714.9	3714.9	5077.7	5077.7	6087.7	6087.7	6924.2	6924.2	2766.7	2766.7	3721.9	3721.9	4509.5	4509.5	5077.7	5077.7
315S	3963.9	3963.9	6141.0	6141.0	7292.2	7292.2	8300.9	8300.9	2965.5	2965.5	4478.5	4478.5	5357.8	5357.8	6153.3	6153.3
315M	3963.9	3963.9	6141.0	6141.0	7292.2	7292.2	8300.9	8300.9	2965.5	2965.5	4478.5	4478.5	5357.8	5357.8	6153.3	6153.3
315L	3964.7	3964.7	6143.0	6143.0	7292.2	7292.2	8300.9	8300.9	2965.8	2965.8	4479.5	4479.5	5357.8	5357.8	6153.3	6153.3
355	5775	2310	8100	4050	9484	5160	10080	8420	4675	1460	5770	2030	6411	2611	7106	3366

订货须知

订货举例

订购电动机时，请详细说明电动机型号、规格和产品代码。电动机的产品代码有不同的组成方法，下面列举一些例子。

A	B	C	D, E, F, G				
M2QA	100L2A	M2QA	10	1	501	-	A S A X
		1-4	5-6	7	8-10	11	12 13 14 15

A	电动机型号
B	电动机规格
C	产品代码
D	安装型式代码
E	电压和频率代码
F	产地代码

Ordering Information

Sample order

When placing an order, the motor type, size and product code must be specified. The product code of the motor is composed in various ways, in accordance with the following examples.

A	Motor type
B	Motor size
C	Product code
D	Mounting arrangement code
E	Voltage and frequency code
F	Generation code

产品代码说明

Explanation of the Product Code

第1位~第4位

Positions 1 and 4

M2QA=铸铁全封闭自扇冷鼠笼电动机

M2QA=Totally enclosed fan cooled squirrel cage motor with cast iron frame

第5位~第6位

Positions 5 and 6

IEC机座号

IEC frame

07 = 71	13 = 132	25 = 250
08 = 80	16 = 160	28 = 280
09 = 90	18 = 180	31 = 315
10 = 100	20 = 200	35 = 355
11 = 112	22 = 225	

第7位 转速(极数)

Positions 7

Speed(pole pairs)

1=2极	6=12极	1=2poles	6=12poles
2=4极		2=4poles	
3=6极		3=6poles	
4=8极		4=8poles	
5=10极		5=10poles	

第8位~第10位 编号

Positions 8 to 10

Running number series

第11位 -(破折号)

Positions 11

-(dash)

第12位

安装型式

A=底脚安装，接线盒顶置

R=底脚安装，接线盒右置（从驱动端看）（80-355）

L=底脚安装，接线盒左置（从驱动端看）（80-355）

B=大法兰安装

C=小法兰安装(71-160)

H=底脚和法兰安装

Positions 12

Mounting arrangement

A=Foot-mounted, top-mouted terminal box

R=Foot-mounted, terminal box on RHS, seen form D-end(80-355)

L=Foot-mounted, terminal box on LHS, seen from D-end(80-355)

B=Flange-mounted, large flange

C=Flange-mounted, small flange size(71-160)

H=Foot and flange-mounted

第13位

电压和频率代码

见相应页上的表格

Positions 13

Voltage and frequency code

See tables on appropriate page

第14位

产地代码

A

Positions 14

Generation code

A

第15位

VC标识代码

X

Positions 15

VC Identifying code

X

电机技术数据表 Technical Data Table

IP55 IC411

Insulation class F
Temperature rise class B

400V 50Hz											
功率 Output kW	型号规格 Type designation	产品代码 Product code	转速 Speed n r/min	效率 Efficiency		功率因数 Power factor cos φ	电流 Current		转矩 Torque		
				Full	3/4		额定电流	堵转电流	额定转矩	堵转转矩	最大转矩
				load	load		额定电流	堵转电流	额定转矩	堵转转矩	最大转矩
				100% η	75% η		IN	Is/IN	TN	Ts/TN	TMAX/TN
3000r/min=2poles Basic design											
0.37	M2QA 71M2A	3GQA 071301-**A	2780	72.0	73.5	0.82	0.90	6.0	1.27	2.2	2.4
0.55	71M2B	071302-**A	2785	75.5	77.7	0.83	1.27	5.5	1.89	2.2	2.4
0.75	80M2A	081301-**A	2840	74.2	74.8	0.85	1.72	6.1	2.52	2.2	2.2
1.1	80M2B	081302-**A	2855	76.9	78.3	0.86	2.40	7.0	3.68	2.2	2.2
1.5	90S2A	091101-**A	2850	78.3	79.4	0.87	3.18	7.0	5.03	2.2	2.2
2.2	90L2A	091501-**A	2850	80.7	81.5	0.86	4.58	7.0	7.37	2.2	2.2
3	100L2A	101501-**A	2860	82.4	83.7	0.87	6.04	7.0	10.0	2.2	2.2
4	112M2A	111301-**A	2875	83.9	85.0	0.90	7.65	7.0	13.3	2.2	2.2
5.5	132S2A	131101-**A	2905	85.5	86.1	0.89	10.4	7.0	18.1	2.2	2.2
7.5	132S2B	131102-**A	2910	86.7	88.0	0.895	14.0	7.0	24.6	2.2	2.2
11	160M2A	161301-**A	2920	88.2	88.7	0.875	20.6	6.5	36.0	2.5	3.0
15	160M2B	161302-**A	2920	89.3	90.0	0.885	27.4	6.5	49.1	2.5	3.2
18.5	160L2A	161501-**A	2920	89.8	90.9	0.895	33.2	6.5	60.5	2.5	3.2
22	180M2A	181301-**A	2940	90.4	91.7	0.90	39.0	6.5	71.5	2.3	2.8
30	200L2A	201501-**A	2955	91.2	91.0	0.90	52.8	6.5	97.0	2.2	2.7
37	200L2B	201502-**A	2955	91.6	91.6	0.905	64.4	6.5	120	2.3	2.7
45	225M2A	221301-**A	2970	92.1	91.3	0.89	79.2	7.0	145	2.5	2.8
55	250M2A	251301-**A	2965	92.5	92.8	0.90	95.4	7.5	177	2.4	3.0
75	280S2A	281101-**A	2970	93.1	93.1	0.91	128	7.5	241	2.5	3.3
90	280M2A	281301-**A	2970	93.4	93.6	0.92	151	7.5	289	2.3	3.2
110	315S2A	311101-**A	2980	93.6	93.4	0.90	188	7.1	352	1.8	2.2
132	315M2A	311301-**A	2980	94.2	93.8	0.90	225	7.1	423	1.8	2.2
160	315L2A	311501-**A	2975	94.2	94.0	0.90	272	7.2	514	1.8	2.2
*200	315L2B	311502-**A	2975	94.4	94.5	0.91	336	7.2	642	1.8	2.2
*250	355M2A	351301-**A	2980	94.5	94.5	0.90	424	7.1	801	2.3	2.8
*315	355L2A	351501-**A	2980	94.8	94.6	0.90	533	6.9	1009	2	2.8
400V 50Hz											
功率 Output kW	型号规格 Type designation	产品代码 Product code	转速 Speed n r/min	效率 Efficiency		功率因数 Power factor cos φ	电流 Current		转矩 Torque		
				Full	3/4		额定电流	堵转电流	额定转矩	堵转转矩	最大转矩
				load	load		额定电流	堵转电流	TN	额定转矩	额定转矩
				100% η	75% η		IN	Is/IN	Nm	Ts/TN	TMAX/TN
1500r/min=4poles Basic design											
0.25	M2QA 71M4A	3GQA 072301-**A	1395	69.0	71.2	0.70	0.75	4.5	1.71	2.1	2.4
0.37	71M4B	072302-**A	1395	69.0	70.7	0.72	1.07	4.5	2.53	2.1	2.4
0.55	80M4A	082301-**A	1410	72.0	72.5	0.73	1.51	5.2	3.73	2.4	2.0
0.75	80M4B	082302-**A	1415	74.2	75.6	0.755	1.93	6.0	5.06	2.4	2.2
1.1	90S4A	092101-**A	1395	76.3	76.8	0.765	2.72	6.0	7.53	2.3	2.2
1.5	90L4A	092501-**A	1400	78.3	80.6	0.78	3.54	6.0	10.2	2.3	2.2
2.2	100L4A	102501-**A	1430	80.7	81.3	0.79	4.98	6.0	14.7	2.3	2.2
3	100L4B	102502-**A	1425	82.4	83.6	0.81	6.49	6.5	20.1	2.3	2.2
4	112M4A	112301-**A	1435	83.9	84.1	0.775	8.88	6.5	26.6	2.3	2.2
5.5	132S4A	132101-**A	1435	85.5	86.2	0.82	11.3	6.5	36.6	2.3	2.2
7.5	132M4A	132301-**A	1440	86.7	87.6	0.83	15.0	6.5	49.7	2.3	2.2
11	160M4A	162301-**A	1460	88.2	89.1	0.85	21.2	6.5	72.0	2.4	2.8
15	160L4A	162501-**A	1455	89.3	90.8	0.86	28.2	6.5	98.5	2.3	2.4
18.5	180M4A	182301-**A	1470	89.8	90.4	0.86	34.6	6.5	120	2.3	3.0
22	180L4A	182501-**A	1470	90.4	90.1	0.875	40.1	6.5	143	2.4	3.1
30	200L4A	202501-**A	1475	91.2	91.8	0.87	54.6	6.5	194	2.2	2.8
37	225S4A	222101-**A	1480	91.6	92.1	0.86	67.8	7.0	239	2.2	2.8
45	225M4A	222301-**A	1480	92.1	92.3	0.86	82.0	7.0	290	2.2	2.8
55	250M4A	252301-**A	1475	92.5	92.8	0.88	97.5	7.0	356	2.4	3.0
75	280S4A	282101-**A	1480	93.1	93.7	0.88	132	6.5	484	2.4	2.6
90	280M4A	282301-**A	1480	93.6	93.8	0.89	156	7.2	581	2.3	2.8
110	315S4A	312101-**A	1485	93.6	93.7	0.87	195	6.9	707	2.1	2.2
132	315M4A	312301-**A	1480	93.8	93.8	0.875	232	6.9	852	2.1	2.2
160	315L4A	312501-**A	1485	94.0	94.0	0.875	281	6.9	1029	2.1	2.2
200	315L4B	312502-**A	1480	94.2	94.2	0.875	350	6.9	1291	2.1	2.2
*250	355M4A	352301-**A	1485	94.4	94.4	0.90	425	6.9	1608	2.1	2.6
*315	355L4A	352501-**A	1485	94.8	94.8	0.90	533	7.0	2026	2.1	2.3

Code letters For supplementing the product code
Code letters For voltage and-frequency(product code position 13)

*Insulation Class F Temperature rise Class F

D	S
380~420V△50Hz	220~240V△50Hz
660~690VY50Hz	380~420VY50Hz
440~480 ¹⁾ V△60Hz	440~480VY60Hz

¹⁾480V not stamped on sizes
160 to 355其他电压频率（最大值，690V）可通过添加VC002，VC209实现。
（VC定义请见25页VC适用表）
Other rated voltage connection or frequency(Max,690V)can be used
with VC002 or VC209.(The meaning of Variant code can be referred to
Variant Code List on Page 25)

电机技术数据表 Technical Data Table

IP55 IC411

Insulation class F
Temperature rise class B

380V 50Hz						415V 50Hz						
功率 Output kW	型号规格 Type designation	转速 Speed n r/min	效率 Efficiency η %	功率因数 Power factor cos φ	电流 Current A	转速 Speed n r/min	效率 Efficiency η %	功率因数 Power factor cos φ	电流 Current A	转动惯量 Moment of inertia J=GD ² /4 kgm ²	重量 Weight kg	噪声 Sound pressure level Lp dB(A)
3000r/min=2poles Basic design												
0.37	M2QA 71M2A	2765	71.0	0.85	0.93	2790	72.0	0.80	0.89	0.00030	10	56
0.55	71M2B	2780	73.5	0.85	1.34	2800	75.5	0.81	1.25	0.00037	11	56
0.75	80M2A	2825	73.7	0.86	1.80	2855	74.7	0.84	1.66	0.00091	16	57
1.1	80M2B	2840	76.2	0.87	2.52	2870	77.4	0.845	2.34	0.00107	17	58
1.5	90S2A	2835	77.8	0.885	3.31	2865	78.8	0.86	3.08	0.00135	21	61
2.2	90L2A	2835	80.2	0.88	4.74	2865	81.0	0.83	4.55	0.00163	24	61
3	100L2A	2845	82.0	0.88	6.32	2870	82.8	0.845	5.97	0.00402	33	65
4	112M2A	2860	83.1	0.915	7.99	2890	84.4	0.88	7.49	0.00671	42	67
5.5	132S2A	2890	84.8	0.90	10.9	2910	86.0	0.875	10.2	0.01241	58	70
7.5	132S2B	2900	86.0	0.90	14.7	2920	87.2	0.89	13.4	0.01491	63	70
11	160M2A	2910	87.6	0.885	21.6	2930	88.2	0.85	20.4	0.0436	112	72
15	160M2B	2910	89.3	0.895	28.5	2930	89.8	0.875	26.6	0.0551	122	72
18.5	160L2A	2910	89.8	0.905	34.6	2930	90.3	0.885	32.2	0.06549	142	72
22	180M2A	2935	90.4	0.91	40.6	2950	90.4	0.88	38.5	0.08805	170	75
30	200L2A	2950	91.2	0.91	54.9	2960	91.2	0.89	51.4	0.14821	235	81
37	200L2B	2950	91.6	0.915	67.1	2960	91.6	0.895	62.8	0.16822	254	81
45	225M2A	2965	92.1	0.90	82.5	2970	92.1	0.875	77.7	0.29345	328	81
55	250M2A	2960	92.3	0.905	100	2965	92.5	0.89	92.9	0.3784	400	84
75	280S2A	2965	92.8	0.92	133	2970	93.1	0.905	124	0.587	498	85
90	280M2A	2965	93.1	0.925	159	2970	93.4	0.915	147	0.615	554	85
110	315S2A	2975	93.6	0.905	197	2980	93.6	0.89	184	1.4083	869	88
132	315M2A	2975	94.2	0.905	235	2980	94.2	0.89	219	1.5584	962	88
160	315L2A	2975	94.2	0.91	284	2980	94.2	0.89	266	1.7256	1014	88
*200	315L2B	2970	94.4	0.915	352	2975	94.4	0.90	327	1.9405	1166	88
*250	355M2A	2980	94.5	0.905	444	2980	94.5	0.895	411	3.05	1658	89
*315	355L2A	2980	94.8	0.905	558	2980	94.8	0.895	517	3.6	1815	89

380V 50Hz						415V 50Hz						
功率 Output kW	型号规格 Type designation	转速 Speed n r/min	效率 Efficiency η %	功率因数 Power factor cos φ	电流 Current A	转速 Speed n r/min	效率 Efficiency η %	功率因数 Power factor cos φ	电流 Current A	转动惯量 Moment of inertia J=GD ² /4 kgm ²	重量 Weight kg	噪声 Sound pressure level Lp dB(A)
1500r/min=4poles Basic design												
0.25	M2QA 71M4A	1385	68.0	0.73	0.77	1405	69.0	0.67	0.75	0.00053	11	43
0.37	71M4B	1385	68.0	0.745	1.11	1405	69.0	0.69	1.08	0.00066	11	45
0.55	80M4A	1400	71.5	0.75	1.56	1420	72.0	0.70	1.52	0.00145	16	46
0.75	80M4B	1405	73.2	0.78	2.00	1425	74.7	0.735	1.90	0.00174	17	46
1.1	90S4A	1385	75.7	0.785	2.81	1405	76.5	0.735	2.72	0.00254	21	52
1.5	90L4A	1390	77.8	0.795	3.68	1410	78.8	0.755	3.51	0.00317	25	52
2.2	100L4A	1420	80.2	0.81	5.15	1435	81.0	0.765	4.94	0.00679	33	53
3	100L4B	1415	81.7	0.83	6.72	1430	82.8	0.785	6.42	0.00862	36	53
4	112M4A	1430	83.6	0.805	9.03	1440	84.1	0.75	8.82	0.01306	45	56
5.5	132S4A	1425	84.7	0.84	11.7	1440	85.6	0.79	11.3	0.02673	60	59
7.5	132M4A	1430	86.1	0.84	15.8	1450	87.1	0.80	15.0	0.03432	73	59
11	160M4A	1450	88.2	0.87	21.8	1460	88.2	0.83	20.9	0.06543	116	66
15	160L4A	1450	89.3	0.88	29.0	1460	89.3	0.85	27.5	0.09349	137	66
18.5	180M4A	1465	89.8	0.88	35.6	1470	89.8	0.85	33.7	0.16049	170	66
22	180L4A	1465	90.4	0.89	41.5	1470	90.4	0.86	39.4	0.18046	186	66
30	200L4A	1470	91.2	0.885	56.5	1475	91.2	0.855	53.5	0.2819	254	71
37	225S4A	1475	91.6	0.875	70.1	1480	91.6	0.84	66.9	0.37	308	73
45	225M4A	1475	92.1	0.865	85.8	1480	92.1	0.835	81.4	0.42	335	73
55	250M4A	1475	92.3	0.89	102	1480	92.6	0.87	95.0	0.78	433	76
75	280S4A	1480	92.9	0.89	138	1480	93.1	0.875	128	1.10	510	78
90	280M4A	1480	93.4	0.90	163	1485	93.6	0.885	151	1.35	583	78
110	315S4A	1480	93.6	0.875	204	1485	93.6	0.855	191	2.8596	904	80
132	315M4A	1480	93.8	0.885	242	1485	93.8	0.865	226	3.1848	1003	80
160	315L4A	1480	94.0	0.885	292	1485	94.0	0.86	275	3.6765	1095	86
200	315L4B	1480	94.2	0.885	364	1485	94.2	0.865	341	4.2516	1204	86
*250	355M4A	1485	94.3	0.905	445	1490	94.4	0.895	412	6.77	1668	87
*315	355L4A	1485	94.7	0.905	558	1490	94.8	0.895	517	8.2	1871	87

Code letters For supplementing the product code
Code letters For voltage and-frequency(product code position 13)

*Insulation Class F Temperature rise Class F

D	S	
380~420V△50Hz	220~240V△50Hz	其他电压频率（最大值，690V）可通过添加VC002，VC209实现。 （VC定义请见25页VC适用表） Other rated voltage connection or frequency(Max,690V)can be used with VC002 or VC209.(The meaning of Variant code can be referred to Variant Code List on Page 25)
660~690VY50Hz	380~420VY50Hz	
440~480 ¹⁾ V△60Hz	440~480VY60Hz	
¹⁾ 480V not stamped on sizes 160 to 355		

电机技术数据表 Technical Data Table

IP55 IC411

Insulation class F
Temperature rise class B

400V 50Hz													
功率	型号规格	产品代码	转速	效率 Efficiency		功率因数	电流 Current		转矩 Torque				
Output	Type	Product	Speed	Full	3/4	Power factor	额定电流	堵转电流	额定转矩	堵转转矩	最大转矩		
kW	designation	code	n	load	load	cos φ	IN	额定电流	TN	额定转矩	额定转矩		
			r/min	100% η	75% η		A	Is/IN	Nm	Ts/TN	TMAX/TN		
1000r/min=6poles Basic design													
0.18	M2QA	71M6A	3GQA	073301-***A	885	55.0	54.0	0.67	0.71	3.5	1.94	2.1	2.3
0.25		71M6B		073302-***A	885	58.0	59.6	0.67	0.93	3.5	2.70	2.1	2.3
0.37		80M6A		083301-***A	930	63.5	63.9	0.66	1.27	5.0	3.80	1.9	1.8
0.55		80M6B		083302-***A	925	65.7	66.9	0.675	1.79	5.0	5.68	1.9	1.8
0.75		90S6A		093101-***A	920	71.5	72.6	0.72	2.10	5.0	7.79	2.0	2.2
1.1		90L6A		093501-***A	920	74.3	75.5	0.74	2.89	5.0	11.4	2.0	2.2
1.5		100L6A		103501-***A	940	76.4	76.2	0.74	3.83	5.5	15.2	2.0	2.2
2.2		112M6A		113301-***A	940	78.8	79.8	0.73	5.52	5.5	22.4	2.0	2.2
3		132S6A		133101-***A	945	80.7	81.6	0.77	6.97	6.5	30.3	2.0	2.2
4		132M6A		133301-***A	950	82.3	82.9	0.77	9.11	6.5	40.2	2.0	2.2
5.5		132M6B		133302-***A	950	83.9	85.8	0.78	12.1	6.5	55.3	2.0	2.2
7.5		160M6A		163301-***A	960	85.5	86.4	0.78	16.2	6.0	74.6	2.0	2.3
11		160L6A		163501-***A	970	87.1	88.0	0.78	23.4	6.0	108	2.2	2.3
15		180L6A		183501-***A	975	88.3	88.7	0.82	29.9	6.0	147	2.3	2.8
18.5		200L6A		203501-***A	980	89.2	90.2	0.82	36.5	6.0	180	2.2	2.8
22		200L6B		203502-***A	980	89.7	90.4	0.83	42.7	6.0	214	2.1	2.8
30		225M6A		223301-***A	985	90.7	91.1	0.815	58.6	6.6	291	2.2	2.8
37		250M6A		253301-***A	975	91.3	91.6	0.87	67.2	6.8	362	2.3	2.8
45		280S6A		283101-***A	985	91.8	92.0	0.875	80.9	6.2	436	2.3	2.4
55		280M6A		283301-***A	985	92.3	92.4	0.875	98.3	7.0	533	2.3	2.5
75		315S6A		313101-***A	985	93.0	93.2	0.86	135	7.4	727	2.0	2.0
90		315M6A		313301-***A	985	93.3	93.5	0.86	162	7.4	872	2.0	2.0
110		315L6A		313501-***A	985	93.6	93.8	0.875	194	6.8	1066	2.0	2.0
132		315L6B		313502-***A	985	93.8	94.0	0.875	232	6.8	1280	2.0	2.0
*160		355M6A		353301-***A	990	94.0	94.2	0.88	279	6.8	1543	2.1	2.4
*200		355M6B		353302-***A	990	94.2	94.3	0.88	348	6.7	1929	2.0	2.3
*250		355L6A		353501-***A	990	94.4	94.5	0.88	434	6.7	2412	2.0	2.3
400V 50Hz													
功率	型号规格	产品代码	转速	效率 Efficiency		功率因数	电流 Current		转矩 Torque				
Output	Type	Product	Speed	Full	3/4	Power factor	额定电流	堵转电流	额定转矩	堵转转矩	最大转矩		
kW	designation	code	n	load	load	cos φ	IN	额定电流	TN	额定转矩	额定转矩		
			r/min	100% η	75% η		A	Is/IN	Nm	Ts/TN	TMAX/TN		
750r/min=8poles Basic design													
0.18	M2QA	80M8A	3GQA	084301-***A	700	51.0	50.1	0.60	0.85	3.3	2.46	1.8	1.9
0.25		80M8B		084302-***A	700	54.5	53.2	0.60	1.10	3.6	3.41	1.8	1.9
0.37		90S8A		094101-***A	700	62.5	62.1	0.605	1.41	4.4	5.05	1.8	1.9
0.55		90L8A		094501-***A	700	63.5	63.3	0.615	2.03	4.7	7.50	1.8	2.0
0.75		100L8A		104501-***A	690	68.5	68.6	0.64	2.47	5.0	10.4	1.8	2.0
1.1		100L8B		104502-***A	675	71.3	70.1	0.645	3.45	5.0	15.6	1.8	2.0
1.5		112M8A		114301-***A	695	74.2	74.6	0.675	4.32	5.0	20.6	1.8	2.0
2.2		132S8A		134101-***A	710	79.8	80.6	0.70	5.68	5.5	29.6	1.8	2.0
3		132M8A		134301-***A	710	80.0	80.4	0.75	7.22	5.5	40.4	1.8	2.0
4		160M8A		164301-***A	720	83.0	83.0	0.73	9.53	5.5	53.1	2.1	2.5
5.5		160M8B		164302-***A	720	84.5	94.6	0.74	12.7	5.5	73.0	2.1	2.5
7.5		160L8A		164501-***A	720	85.2	84.5	0.74	17.2	5.5	99.5	2.1	2.5
11		180L8A		184501-***A	730	87.5	86.8	0.77	23.6	5.4	144	2.0	2.8
15		200L8A		204501-***A	730	89.0	89.4	0.775	31.4	5.5	196	2.3	2.8
18.5		225S8A		224101-***A	735	89.5	88.6	0.73	40.9	5.5	240	2.1	2.8
22		225M8A		224301-***A	735	89.7	88.8	0.74	47.8	6.0	286	2.2	2.8
30		250M8A		254301-***A	730	91.3	89.3	0.79	60.0	6.5	392	2.3	2.6
37		280S8A		284101-***A	735	91.2	91.0	0.80	73.2	6.0	481	2.1	2.6
45		280M8A		284301-***A	735	92.0	90.6	0.80	88.2	6.0	585	2.1	2.7
55		315S8A		314101-***A	740	92.5	91.2	0.82	105	6.9	710	1.8	2.0
75		315M8A		314301-***A	740	93.0	91.9	0.82	142	7.0	968	1.8	2.0
90		315L8A		314501-***A	740	93.5	92.9	0.82	169	7.1	1161	1.8	2.0
110		315L8B		314502-***A	740	94.0	92.4	0.825	205	6.4	1420	1.8	2.0
*132		355M8A		354301-***A	740	94.2	93.9	0.815	248	6.2	1704	1.8	2.0
*160		355M8B		354302-***A	740	94.5	94.1	0.82	298	6.2	2065	1.8	2.0
*200		355L8A		354501-***A	740	94.7	94.5	0.82	372	6.2	2581	1.8	2.0

Code letters For supplementing the product code
Code letters For voltage and-frequency(product code position 13)

*Insulation Class F Temperature rise Class F

D	S
380~420V△50Hz	220~240V△50Hz
660~690VY50Hz	380~420VY50Hz
440~480 ¹⁾ V△60Hz	440~480VY60Hz

¹⁾480V not stamped on sizes
160 to 355

其他电压频率（最大值，690V）可通过添加VC002，VC209实现。
（VC定义请见25页VC适用表）
Other rated voltage connection or frequency(Max,690V)can be used
with VC002 or VC209.(The meaning of Variet code can be referred to
Variant Code List on Page 25)

电机技术数据表 Technical Data Table

IP55 IC411

Insulation class F
Temperature rise class B

380V 50Hz						415V 50Hz						
功率 Output kW	型号规格 Type designation	转速 Speed n r/min	效率 Efficiency η %	功率因数 Power factor cos φ	电流 Current A	转速 Speed n r/min	效率 Efficiency η %	功率因数 Power factor cos φ	电流 Current A	转动惯量 Moment of inertia J=GD ² /4 kgm ²	重量 Weight kg	噪声 Sound pressure level Lp dB(A)
1000r/min=6poles Basic design												
0.18	M2QA 71M6A	880	52.0	0.69	0.76	890	55.0	0.63	0.72	0.00056	10	42
0.25	71M6B	880	56.0	0.69	0.98	890	58.0	0.66	0.91	0.00074	11	42
0.37	80M6A	925	63.0	0.685	1.30	935	63.0	0.63	1.30	0.00159	17	45
0.55	80M6B	920	65.0	0.705	1.82	930	65.5	0.635	1.84	0.00196	18	45
0.75	90S6A	915	70.5	0.755	2.14	930	71.7	0.70	2.08	0.00292	21	48
1.1	90L6A	915	73.3	0.77	2.96	925	74.5	0.72	2.85	0.00379	25	48
1.5	100L6A	930	75.6	0.76	3.97	945	76.8	0.715	3.80	0.00999	32	51
2.2	112M6A	935	78.2	0.75	5.70	945	79.2	0.71	5.44	0.01559	40	54
3	132S6A	940	80.1	0.78	7.30	950	81.1	0.75	6.86	0.03116	55	56
4	132M6A	945	81.4	0.78	9.57	955	82.8	0.75	8.96	0.04074	65	56
5.5	132M6B	940	83.3	0.79	12.7	955	84.3	0.765	11.9	0.05332	75	56
7.5	160M6A	950	85.5	0.79	16.9	970	85.5	0.75	16.3	0.09231	119	61
11	160L6A	965	87.1	0.80	24.0	975	87.1	0.76	23.1	0.12970	140	62
15	180L6A	975	88.3	0.84	30.7	980	88.3	0.80	29.5	0.2418	180	63
18.5	200L6A	975	89.2	0.84	37.5	980	89.2	0.80	36.1	0.34174	231	64
22	200L6B	975	89.7	0.84	44.4	980	89.7	0.81	42.1	0.46837	254	64
30	225M6A	980	90.7	0.835	60.2	985	90.7	0.79	58.2	0.62691	308	66
37	250M6A	975	90.9	0.88	70.3	980	91.5	0.86	65.4	0.97	385	68
45	280S6A	980	91.6	0.885	84.3	985	91.8	0.865	78.8	1.25	467	69
55	280M6A	980	92.0	0.885	103	985	92.3	0.865	95.8	1.485	520	70
75	315S6A	985	92.8	0.87	141	985	93.0	0.85	132	3.1942	809	70
90	315M6A	985	93.2	0.87	169	985	93.3	0.85	158	3.723	918	70
110	315L6A	985	93.5	0.88	203	985	93.6	0.87	188	4.2564	1003	70
132	315L6B	985	93.6	0.88	243	985	93.8	0.87	225	5.1577	1076	70
*160	355M6A	990	94.0	0.89	291	990	94.0	0.86	275	7.8	1605	75
*200	355M6B	990	94.1	0.895	361	990	94.2	0.875	338	9.1	1778	75
*250	355L6A	990	94.3	0.895	450	990	94.4	0.87	423	11.4	1990	75

380V 50Hz						415V 50Hz						
功率 Output kW	型号规格 Type designation	转速 Speed n r/min	效率 Efficiency η %	功率因数 Power factor cos φ	电流 Current A	转速 Speed n r/min	效率 Efficiency η %	功率因数 Power factor cos φ	电流 Current A	转动惯量 Moment of inertia J=GD ² /4 kgm ²	重量 Weight kg	噪声 Sound pressure level Lp dB(A)
750r/min=8poles Basic design												
0.18	M2QA 80M8A	695	48.0	0.63	0.90	705	52.5	0.57	0.84	0.00111	16	42
0.25	80M8B	695	52.3	0.63	1.15	705	55.0	0.57	1.11	0.00326	17	42
0.37	90S8A	695	62.0	0.62	1.46	705	62.5	0.59	1.40	0.00541	21	46
0.55	90L8A	695	63.0	0.63	2.11	705	63.5	0.60	2.01	0.00756	24	46
0.75	100L8A	680	67.0	0.65	2.62	695	69.0	0.62	2.44	0.00971	31	53
1.1	100L8B	665	68.8	0.68	3.57	685	71.8	0.625	3.41	0.01186	34	53
1.5	112M8A	690	73.2	0.68	4.58	700	74.4	0.64	4.38	0.01559	42	55
2.2	132S8A	705	79.3	0.745	5.66	715	79.8	0.685	5.60	0.03625	56	55
3	132M8A	705	79.5	0.78	7.35	715	80.0	0.725	7.20	0.04141	64	56
4	160M8A	715	83.0	0.76	9.63	725	83.0	0.70	9.58	0.0676	105	58
5.5	160M8B	715	84.5	0.76	13.0	720	84.5	0.72	12.6	0.09524	125	58
7.5	160L8A	715	85.2	0.77	17.4	720	85.2	0.72	17.0	0.12122	142	58
11	180L8A	725	87.5	0.79	24.2	730	87.5	0.75	23.3	0.23645	176	62
15	200L8A	725	89.0	0.80	32.0	730	89.0	0.75	31.3	0.37103	235	63
18.5	225S8A	735	89.5	0.75	41.9	740	89.3	0.69	41.8	0.53287	290	65
22	225M8A	735	89.7	0.76	49.0	740	89.5	0.70	48.9	0.65825	302	65
30	250M8A	730	91.2	0.81	61.7	735	91.4	0.77	59.3	0.975	390	67
37	280S8A	735	91.1	0.81	76.2	735	91.2	0.785	71.9	1.25	471	68
45	280M8A	735	91.9	0.81	91.8	735	92.0	0.79	86.1	1.485	537	68
55	315S8A	735	92.3	0.83	109	740	92.6	0.805	103	3.6842	779	65
75	315M8A	735	92.8	0.83	148	740	93.1	0.805	139	4.9591	941	68
90	315L8A	740	93.3	0.83	177	740	93.6	0.805	166	5.8205	1022	68
110	315L8B	735	93.8	0.84	212	740	94.1	0.81	201	6.7537	1104	68
*132	355M8A	740	94.1	0.83	257	740	94.3	0.80	243	8.6	1585	71
*160	355M8B	740	94.4	0.835	308	740	94.6	0.805	292	10.01	1740	71
*200	355L8A	740	94.6	0.835	385	740	94.8	0.805	365	12.5	1946	71

Code letters For supplementing the product code
Code letters For voltage and-frequency(product code position 13)

*Insulation Class F Temperature rise Class F

D	S
380~420V△50Hz	220~240V△50Hz
660~690VY50Hz	380~420VY50Hz
440~480 ¹⁾ V△60Hz	440~480VY60Hz

¹⁾480V not stamped on sizes
160 to 355

其他电压频率（最大值，690V）可通过添加VC002，VC209实现。
（VC定义请见25页VC适用表）
Other rated voltage connection or frequency(Max,690V)can be used
with VC002 or VC209.(The meaning of Varient code can be referred to
Variant Code List on Page 25)

电机技术数据表 Technical Data Table

IP55 IC411

Insulation class F
Temperature rise class B

460V 60Hz															
功率	型号规格	产品代码	转速	效率 Efficiency	功率因数	电流 Current		转矩 Torque			转动惯量	重量	噪声		
Output	Type	Product	Speed	Full	Power factor	额定电流	堵转电流	额定转矩	堵转转矩	最大转矩	Moment of inertia J=GD²/4	Weight	Sound pressure level		
kW	designation	code	n	load	cos φ	IN	额定电流	TN	额定转矩	额定转矩	kgm²	kg	Lp dB(A)		
			r/min	100% η		A	Is/IN	Nm	Ts/TN	TMAX/TN					
3600r/min=2poles Basic design															
0.43	M2QA	71M2A	3GQA	071301-**A	3350	75.0	0.825	0.87	5.5	1.23	2.2	2.4	0.00030	10	59
0.63		71M2B		071302-**A	3350	79.0	0.83	1.21	5.5	1.80	2.2	2.4	0.00037	11	59
0.86		80M2A		081301-**A	3420	77.0	0.875	1.60	6.1	2.40	2.2	2.2	0.00091	16	60
1.27		80M2B		081302-**A	3430	78.5	0.87	2.33	7.0	3.54	2.2	2.2	0.00107	17	61
1.73		90S2A		091101-**A	3420	81.0	0.87	3.08	7.0	4.83	2.2	2.2	0.00135	21	64
2.53		90L2A		091501-**A	3440	81.5	0.86	4.53	7.0	7.02	2.2	2.2	0.00163	24	64
3.45		100L2A		101501-**A	3450	84.5	0.87	5.89	7.0	9.55	2.2	2.2	0.00402	33	68
4.60		112M2A		111301-**A	3475	86.0	0.91	7.38	7.0	12.6	2.2	2.2	0.00671	42	70
6.33		132S2A		131101-**A	3500	86.0	0.89	10.4	7.0	17.3	2.2	2.2	0.01241	58	73
8.6		132S2B		131102-**A	3510	87.5	0.895	13.8	7.0	23.4	2.2	2.2	0.01491	63	73
12.7		160M2A		161301-**A	3515	87.5	0.875	20.8	6.5	34.5	2.5	3.0	0.0436	112	75
17.3		160M2B		161302-**A	3515	89.5	0.895	27.1	6.5	47.0	2.5	3.2	0.0551	122	75
21.3		160L2A		161501-**A	3515	89.5	0.90	33.2	6.5	57.8	2.5	3.2	0.06549	142	75
25.3		180M2A		181301-**A	3540	89.5	0.90	39.4	6.5	68.3	2.3	2.8	0.08805	170	78
34.5		200L2A		201501-**A	3550	91.5	0.905	52.3	6.5	92.8	2.2	2.7	0.14821	235	84
42.6		200L2B		201502-**A	3550	91.7	0.91	64.1	6.5	115	2.3	2.7	0.16822	254	84
51.8		225M2A		221301-**A	3570	92.4	0.895	78.6	7.0	139	2.5	2.8	0.29345	328	84
63		250M2A		251301-**A	3565	92.4	0.90	95.1	7.5	169	2.4	3.0	0.3784	400	87
86		280S2A		281101-**A	3570	93.0	0.92	126	7.5	230	2.5	3.3	0.587	498	88
104		280M2A		281301-**A	3570	93.0	0.925	152	7.5	278	2.3	3.2	0.615	554	88
127		315S2A		311101-**A	3575	93.0	0.90	190	7.1	339	1.8	2.2	1.4083	869	91
152		315M2A		311301-**A	3575	94.1	0.905	224	7.1	406	1.8	2.2	1.5584	962	91
184		315L2A		311501-**A	3575	94.1	0.905	271	7.2	492	1.8	2.2	1.7256	1014	91
*230		315L2B		311502-**A	3570	94.1	0.91	337	7.2	615	1.8	2.2	1.9405	1166	91
*287.5		355M2A		351301-**A	3580	94.1	0.905	424	7.1	767	2.3	2.8	3.05	1658	92
*362.5		355L2A		351501-**A	3580	94.1	0.905	534	6.9	967	2.0	2.8	3.6	1815	92
460V 60Hz															
功率	型号规格	产品代码	转速	效率 Efficiency	功率因数	电流 Current		转矩 Torque			转动惯量	重量	噪声		
Output	Type	Product	Speed	Full	Power factor	额定电流	堵转电流	额定转矩	堵转转矩	最大转矩	Moment of inertia J=GD²/4	Weight	Sound pressure level		
kW	designation	code	n	load	cos φ	IN	额定电流	TN	额定转矩	额定转矩	kgm²	kg	Lp dB(A)		
			r/min	100% η		A	Is/IN	Nm	Ts/TN	TMAX/TN					
1800r/min=4poles Basic design															
0.29	M2QA	71M4A	3GQA	072301-**A	1665	73.0	0.71	0.70	4.5	1.66	2.1	2.4	0.00053	11	46
0.43		71M4B		072302-**A	1670	73.0	0.73	1.01	4.5	2.46	2.1	2.4	0.00066	11	48
0.63		80M4A		082301-**A	1695	73.5	0.73	1.47	5.2	3.55	2.4	2.0	0.00145	16	49
0.86		80M4B		082302-**A	1690	78.0	0.75	1.85	6.0	4.86	2.4	2.2	0.00174	17	49
1.27		90S4A		092101-**A	1695	79.0	0.765	2.64	6.0	7.16	2.3	2.2	0.00254	21	55
1.73		90L4A		092501-**A	1700	81.5	0.785	3.39	6.0	9.70	2.3	2.2	0.00317	25	55
2.53		100L4A		102501-**A	1730	83.0	0.795	4.81	6.0	14.0	2.3	2.2	0.00679	32	56
3.45		100L4B		102502-**A	1725	85.0	0.815	6.25	6.5	19.1	2.3	2.2	0.00862	36	56
4.60		112M4A		112301-**A	1735	87.0	0.785	8.45	6.5	25.3	2.3	2.2	0.01306	45	59
6.33		132S4A		132101-**A	1735	87.0	0.82	11.1	6.5	34.8	2.3	2.2	0.02673	60	62
8.6		132M4A		132301-**A	1735	87.5	0.83	14.9	6.5	47.3	2.3	2.2	0.03432	73	62
12.7		160M4A		162301-**A	1755	88.5	0.87	20.7	6.5	69.1	2.4	2.8	0.06543	116	69
17.3		160L4A		162501-**A	1750	90.5	0.88	27.3	6.5	94.4	2.3	2.4	0.09349	137	69
21.3		180M4A		182301-**A	1770	91.0	0.865	34.0	6.5	115	2.3	3.0	0.16049	170	69
25.3		180L4A		182501-**A	1770	91.0	0.88	39.7	6.5	137	2.4	3.1	0.18046	186	69
34.5		200L4A		202501-**A	1775	92.4	0.875	53.6	6.5	186	2.2	2.8	0.2819	254	74
42.6		225S4A		222101-**A	1780	93.0	0.87	66.1	7.0	229	2.2	2.8	0.37	308	76
51.8		225M4A		222301-**A	1780	93.0	0.86	81.3	7.0	278	2.2	2.8	0.42	335	76
63		250M4A		252301-**A	1775	93.0	0.885	96.1	7.0	339	2.4	3.0	0.78	433	79
86		280S4A		282101-**A	1780	93.2	0.885	131	6.5	461	2.4	2.6	1.10	510	81
104		280M4A		282301-**A	1780	93.5	0.895	156	7.2	558	2.3	2.8	1.35	583	81
127		315S4A		312101-**A	1780	93.5	0.875	195	6.9	681	2.1	2.2	2.8596	904	83
152		315M4A		312301-**A	1780	94.5	0.88	229	6.9	816	2.1	2.2	3.1848	1003	83
184		315L4A		312501-**A	1780	94.5	0.875	279	6.9	987	2.1	2.2	3.6765	1095	89
230		315L4B		312502-**A	1780	94.5	0.885	345	6.9	1234	2.1	2.2	4.2516	1204	89
*287.5		355M4A		352301-**A	1785	94.5	0.905	422	6.9	1538	2.1	2.6	6.77	1668	90
*362.5		355L4A		352501-**A	1785	94.5	0.905	532	7.0	1939	2.1	2.3	8.20	1871	90

Code letters for supplementing the product code
Code letters for voltage and-frequency(product code position 13)

*Insulation Class F Temperature rise Class F

D	S
380~420V△50Hz	220~240V△50Hz
660~690VY50Hz	380~420VY50Hz
440~480 ¹⁾ V△60Hz	440~480VY60Hz

¹⁾480V not stamped on sizes
160 to 355

其他电压频率（最大值，690V）可通过添加VC002，VC209实现。（VC定义请见25页VC适用表）

Other rated voltage connection or frequency(Max,690V)can be used with VC002 or VC209.(The meaning of Variet code can be referred to Variant Code List on Page 25)

460V 60Hz															
功率 Output kW	型号规格 Type designation	产品代码 Product code	转速 Speed n r/min	效率 Efficiency	功率因数 Power factor cos φ	电流 Current		转矩 Torque			转动惯量 Moment of inertia J=GD²/4 kgm²	重量 Weight kg	噪声 Sound pressure level Lp dB(A)		
				Full load 100% η		额定电流 IN A	堵转电流 Is/IN	额定转矩 TN Nm	堵转转矩 Ts/TN	最大转矩 TMAX/TN					
1200r/min=6poles Basic design															
0.21	M2QA	71M6A	3GQA	073301-**A	1060	59.0	0.68	0.66	3.5	1.89	2.1	2.3	0.00056	10	45
0.29		71M6B		073302-**A	1060	63.0	0.68	0.85	3.5	2.61	2.1	2.3	0.00074	11	45
0.43		80M6A		083301-**A	1105	66.3	0.66	1.23	5.0	3.72	1.9	1.9	0.00159	17	48
0.63		80M6B		083302-**A	1115	68.0	0.665	1.75	5.0	5.40	1.9	1.9	0.00196	18	48
0.86		90S6A		093101-**A	1115	73.0	0.72	2.05	5.0	7.37	2.0	2.2	0.00292	21	51
1.27		90L6A		093501-**A	1110	75.0	0.72	2.95	5.0	10.9	2.0	2.2	0.00379	25	51
1.73		100L6A		103501-**A	1135	77.0	0.745	3.79	5.5	14.6	2.0	2.2	0.00999	32	54
2.53		112M6A		113301-**A	1140	78.5	0.735	5.50	5.5	21.2	2.0	2.2	0.01559	40	57
3.45		132S6A		133101-**A	1145	83.5	0.77	6.73	6.5	28.8	2.0	2.2	0.03116	55	59
4.60		132M6A		133301-**A	1150	85.0	0.77	8.82	6.5	38.2	2.0	2.2	0.04074	65	59
6.33		132M6B		133302-**A	1150	85.0	0.78	12.0	6.58	52.6	2.0	2.2	0.05332	75	59
8.6		160M6A		163301-**A	1165	86.0	0.78	16.1	6.0	70.5	2.0	2.3	0.09231	119	64
12.7		160L6A		163501-**A	1165	89.0	0.785	22.8	6.0	104	2.2	2.3	0.12970	140	65
17.3		180L6A		183501-**A	1175	90.2	0.83	29.0	6.0	141	2.3	2.8	0.2418	180	66
21.3		200L6A		203501-**A	1175	91.0	0.83	35.4	6.0	173	2.2	2.8	0.34174	231	67
25.3		200L6B		203502-**A	1175	91.0	0.84	41.5	6.0	206	2.1	2.8	0.46837	254	67
34.5		225M6A		223301-**A	1185	91.7	0.825	57.2	6.6	278	2.2	2.8	0.62691	308	69
42.6		250M6A		253301-**A	1175	91.7	0.88	66.3	6.8	346	2.3	2.8	0.97	385	71
51.8		280S6A		283101-**A	1185	92.1	0.88	80.2	6.2	417	2.3	2.4	1.25	467	72
63		280M6A		283301-**A	1185	92.1	0.88	97.6	7.0	508	2.3	2.5	1.485	520	73
86		315S6A		313101-**A	1185	93.0	0.865	134	7.4	693	2.0	2.0	3.1942	809	73
104		315M6A		313301-**A	1185	94.1	0.865	160	7.4	838	2.0	2.0	3.723	918	73
127		315L6A		313501-**A	1185	94.1	0.875	194	6.8	1024	2.0	2.0	4.2564	1003	73
152		315L6B		313502-**A	1185	94.1	0.88	230	6.8	1225	2.0	2.0	5.1577	1076	73
*184		355M6A		353301-**A	1190	94.1	0.88	279	6.8	1477	2.1	2.4	7.8	1605	78
*230		355M6B		353302-**A	1190	94.1	0.885	347	6.7	1846	2.0	2.3	9.1	1778	78
*287.5		355L6A		353501-**A	1190	94.1	0.885	433	6.7	2307	2.0	2.3	11.4	1990	78
460V 60Hz															
功率 Output kW	型号规格 Type designation	产品代码 Product code	转速 Speed n r/min	效率 Efficiency	功率因数 Power factor cos φ	电流 Current		转矩 Torque			转动惯量 Moment of inertia J=GD²/4 kgm²	重量 Weight kg	噪声 Sound pressure level Lp dB(A)		
				Full load 100% η		额定电流 IN A	堵转电流 Is/IN	额定转矩 TN Nm	堵转转矩 Ts/TN	最大转矩 TMAX/TN					
900r/min=8poles Basic design															
0.21	M2QA	80M8A	3GQA	084301-**A	825	55.5	0.56	0.85	3.3	2.43	1.8	1.9	0.00111	16	45
0.29		80M8B		084302-**A	825	58.5	0.56	1.11	3.6	3.36	1.8	1.9	0.00326	17	45
0.43		90S8A		094101-**A	835	63.0	0.60	1.43	4.4	4.92	1.8	1.9	0.00541	21	49
0.63		90L8A		094501-**A	835	64.3	0.605	2.03	4.7	7.21	1.8	2.0	0.00756	24	49
0.86		100L8A		104501-**A	840	72.0	0.64	2.34	5.0	9.78	1.8	2.0	0.00971	31	56
1.27		100L8B		104502-**A	830	72.8	0.645	3.39	5.0	14.6	1.8	2.0	0.01186	34	56
1.73		112M8A		114301-**A	845	76.4	0.675	4.21	5.0	19.6	1.8	2.0	0.1559	42	58
2.53		132S8A		134101-**A	860	80.7	0.73	5.39	5.5	28.1	1.8	2.0	0.03625	56	58
3.45		132M8A		134301-**A	855	81.8	0.755	7.01	5.5	38.5	1.8	2.0	0.04141	64	59
4.60		160M8A		164301-**A	865	84.0	0.75	9.16	5.5	50.8	2.1	2.5	0.0676	105	61
6.33		160M8B		164302-**A	865	84.9	0.76	12.3	5.5	69.9	2.1	2.5	0.09524	125	61
8.6		160L8A		164501-**A	865	85.2	0.77	16.5	5.5	94.9	2.1	2.5	0.12122	142	61
12.7		180L8A		184501-**A	880	88.8	0.775	23.2	5.4	138	2.0	2.8	0.23645	176	65
17.3		200L8A		204501-**A	880	89.7	0.785	30.8	5.5	188	2.3	2.8	0.37103	235	66
21.3		225S8A		224101-**A	885	90.2	0.745	39.8	5.5	230	2.1	2.8	0.53287	290	68
25.3		225M8A		224301-**A	885	90.4	0.75	46.8	6.0	273	2.2	2.8	0.65825	302	68
34.5		250M8A		254301-**A	880	91.6	0.80	59.1	6.5	374	2.3	2.6	0.975	390	70
42.6		280S8A		284101-**A	885	91.2	0.805	72.8	6.0	460	2.1	2.6	1.25	471	71
51.8		280M8A		284301-**A	885	92.0	0.805	87.8	6.0	559	2.1	2.7	1.485	537	71
63		315S8A		314101-**A	885	92.6	0.825	104	6.9	680	1.8	2.0	3.6842	779	68
86		315M8A		314301-**A	890	93.1	0.825	141	7.0	922	1.8	2.0	4.9591	941	71
104		315L8A		314501-**A	890	93.7	0.825	169	7.1	1116	1.8	2.0	5.8205	1022	71
127		315L8B		314502-**A	885	94.2	0.83	204	6.4	1370	1.8	2.0	6.7537	1104	71
*152		355M8A		354301-**A	890	94.4	0.825	245	6.2	1631	1.8	2.0	8.6	1585	71
*184		355M8B		354302-**A	890	94.7	0.83	294	6.2	1974	1.8	2.0	10.01	1740	71
*230		355L8A		354501-**A	890	94.8	0.83	367	6.2	2468	1.8	2.0	12.5	1946	71

Code letters for supplementing the product code

Code letters for voltage and-frequency(product code position 13)

*Insulation Class F Temperature rise Class F

S		其他电压频率（最大值，690V）可通过添加VC002，VC209实现。（VC定义请见25页VC适用表） Other rated voltage connection or frequency(Max,690V)can be used with VC002 or VC209.(The meaning of Varient code can be referred to Variant Code List on Page 25)
380~420V△50Hz	220~240V△50Hz	
660~690VY50Hz	380~420VY50Hz	
440~480 ¹⁾ V△60Hz	440~480VY60Hz	
¹⁾ 480V not stamped on sizes 160 to 355		

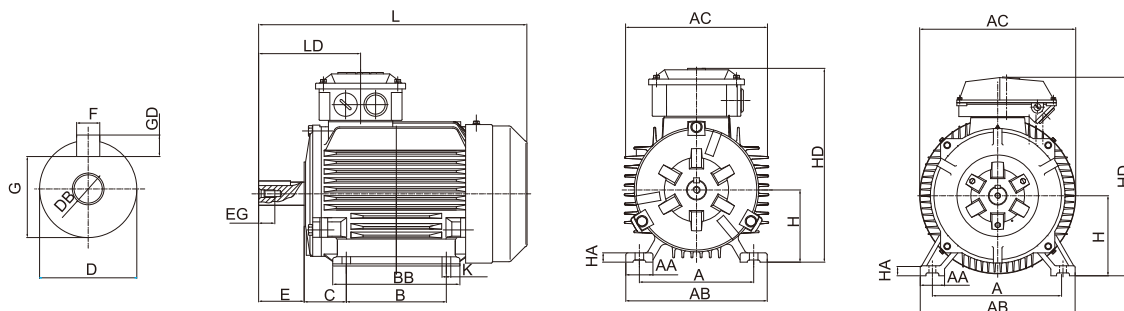
外形尺寸图 Dimension Drawing

Foot-mounted motor designation IM B3, IM B6, IM B7, IM B8, IM V5, IM V6

Cast iron motor
Type M2QA71-355

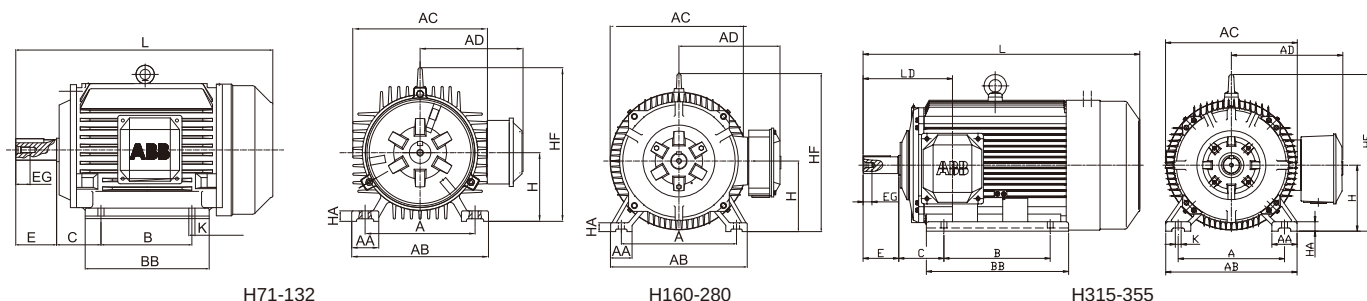
三相电动机，底脚安装，接线盒顶置

three-phase motor, foot-mounted, terminal box top-mounted



三相电动机，底脚安装，接线盒右置

three-phase motor, foot-mounted, terminal box on right hand side



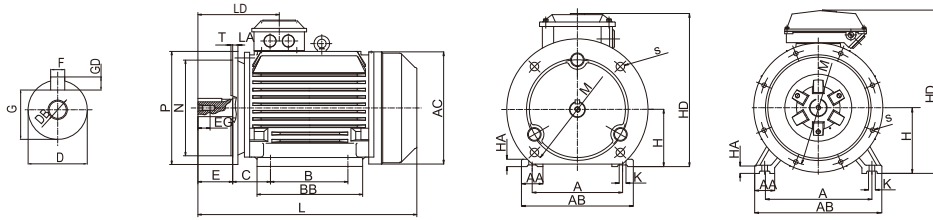
Type M2QA	Poles	A	AA	AB	AC	B	BB	C	D	E	F	G	GD	DB	EG
71M	2-6	112	30	145	145	90	120	45	14 - j6	30	5	11	5	M5	12.5
80M	2-8	125	35	160	165	100	135	50	19 - j6	40	6	15.5	6	M6	16
90S	2-8	140	35	175	180	100	140	56	24 - j6	50	8	20	7	M8	19
90L	2-8	140	35	175	180	125	165	56	24 - j6	50	8	20	7	M8	19
100L	2-8	160	40	200	205	140	180	63	28 - j6	60	8	24	7	M10	22
112M	2-8	190	50	240	225	140	190	70	28 - j6	60	8	24	7	M10	22
132S	2-8	216	55	270	265	140	205	89	38 - k6	80	10	33	8	M12	28
132M	2-8	216	55	270	265	178	240	89	38 - k6	80	10	33	8	M12	28
160M	2-8	254	60	325	330	210	265	108	42 - k6	110	12	37	8	M16	36
160L	2-8	254	60	325	330	254	310	108	42 - k6	110	12	37	8	M16	36
180M	2-4	279	70	350	355	241	315	121	48 - k6	110	14	42.5	9	M16	36
180L	4-8	279	70	350	355	279	350	121	48 - k6	110	14	42.5	9	M16	36
200L	2-8	318	70	390	395	305	380	133	55 - m6	110	16	49	10	M20	39
225S	4-8	356	75	435	440	286	380	149	60 - m6	140	18	53	11	M20	39
225M	2	356	75	435	440	311	405	149	55 - m6	110	16	49	10	M20	39
225M	4-8	356	75	435	440	311	405	149	60 - m6	140	18	53	11	M20	39
250M	2	406	80	484	495	349	445	168	60 - m6	140	18	53	11	M20	39
250M	4-8	406	80	484	495	349	445	168	65 - m6	140	18	58	11	M20	39
280S	2	457	85	542	550	368	485	190	65 - m6	140	18	58	11	M20	39
280S	4-8	457	85	542	550	368	485	190	75 - m6	140	20	67.5	12	M20	39
280M	2	457	85	542	550	419	536	190	65 - m6	140	18	58	11	M20	39
280M	4-8	457	85	542	550	419	536	190	75 - m6	140	20	67.5	12	M20	39
315S	2	508	120	628	635	406	570	216	65 - m6	140	18	58	11	M20	39
315S	4-8	508	120	628	635	406	570	216	80 - m6	170	22	71	14	M20	39
315M	2	508	120	628	635	457	680	216	65 - m6	140	18	58	11	M20	39
315M	4-8	508	120	628	635	457	680	216	80 - m6	170	22	71	14	M20	39
315L	2	508	120	628	635	508	680	216	65 - m6	140	18	58	11	M20	39
315L	4-8	508	120	628	635	508	680	216	80 - m6	170	22	71	14	M20	39
355M	2	610	116	726	725	560	750	250	70 - m6	140	20	62.5	12	M20	39
355M	4-8	610	116	726	725	560	750	250	100 - m6	210	28	90	16	M24	47
355L	2	610	116	726	725	630	750	250	70 - m6	140	20	62.5	12	M20	39
355L	4-8	610	116	726	725	630	750	250	100 - m6	210	28	90	16	M24	47

外形尺寸图 Dimension Drawing

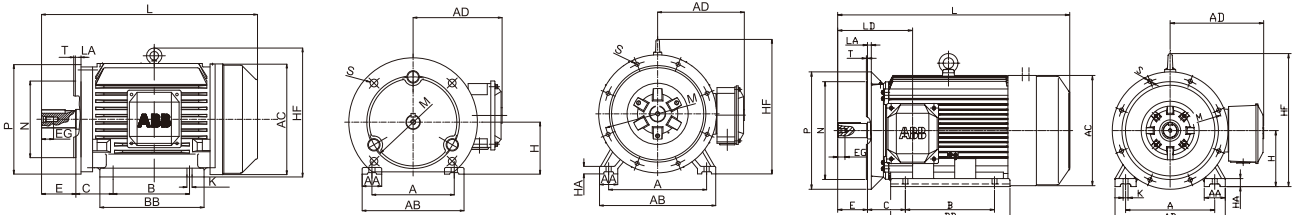
Flange-mounted, mounting designation IM B5, IM V1, IM V3
Foot and flange-mounted, mounting designation IM B35, IM V15, IM V36

Cast iron motor
Type M2QA71-355

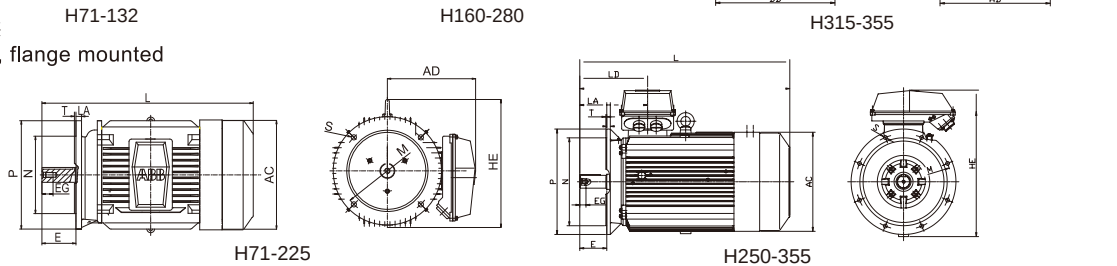
三相电动机，底脚和法兰安装，接线盒顶置
three-phase motor, foot and flange mounted, terminal box top-mounted



三相电动机, 底脚和法兰安装, 接线盒右置
three-phase motor, foot and flange mounted, terminal box on right hand side



三相电动机，法兰安装
three-phase motor, flange mounted



Type	Poles	H	HA	HD	HF	K	L	LD	AD	LA	M	N	P	S	T	HE
M2QA																
71M	2-6	71	10	200	---	ø7	255	100	120	10	ø130	ø110	ø160	4-ø10	3.5	165
80M	2-8	80	12	225	170	ø10	285	116	145	10	ø165	ø130	ø200	4-ø12	3.5	200
90S	2-8	90	12	240	185	ø10	310	128	150	10	ø165	ø130	ø200	4-ø12	3.5	200
90L	2-8	90	12	240	185	ø10	335	128	150	10	ø165	ø130	ø200	4-ø12	3.5	200
100L	2-8	100	14	275	245	ø12	380	138	175	11	ø215	ø180	ø250	4-ø15	4	270
112M	2-8	112	15	290	265	ø12	395	144	185	11	ø215	ø180	ø250	4-ø15	4	278
132S	2-8	132	18	335	300	ø12	465	169	205	12	ø265	ø230	ø300	4-ø15	4	320
132M	2-8	132	18	335	300	ø12	505	169	205	12	ø265	ø230	ø300	4-ø15	4	320
160M	2-8	160	22	420	380	ø15	600	250	260	15	ø300	ø250	ø350	4-ø19	5	400
160L	2-8	160	22	420	380	ø15	645	250	260	15	ø300	ø250	ø350	4-ø19	5	400
180M	2-4	180	22	455	420	ø15	670	270	275	18	ø300	ø250	ø350	4-ø19	5	420
180L	4-8	180	22	455	420	ø15	710	270	275	18	ø300	ø250	ø350	4-ø19	5	420
200L	2-8	200	25	530	470	ø19	770	285	325	20	ø350	ø300	ø400	4-ø19	5	470
225S	4-8	225	28	580	520	ø19	820	340	355	20	ø400	ø350	ø450	8-ø19	5	520
225M	2	225	28	580	520	ø19	815	310	355	20	ø400	ø350	ø450	8-ø19	5	520
225M	4-8	225	28	580	520	ø19	840	340	355	20	ø400	ø350	ø450	8-ø19	5	520
250M	2	250	30	630	570	ø24	930	347	380	22	ø500	ø450	ø550	8-ø19	5	625
250M	4-8	250	30	630	570	ø24	930	347	380	22	ø500	ø450	ø550	8-ø19	5	625
280S	2	280	35	690	645	ø24	985	356	410	22	ø500	ø450	ø550	8-ø19	5	685
280S	4-8	280	35	690	645	ø24	985	356	410	22	ø500	ø450	ø550	8-ø19	5	685
280M	2	280	35	690	645	ø24	1035	356	410	22	ø500	ø450	ø550	8-ø19	5	685
280M	4-8	280	35	690	645	ø24	1035	356	410	22	ø500	ø450	ø550	8-ø19	5	685
315S	2	315	45	855	750	ø28	1185	397	535	22	ø600	ø550	ø660	8-ø24	6	865
315S	4-8	315	45	855	750	ø28	1215	427	535	22	ø600	ø550	ø660	8-ø24	6	865
315M	2	315	45	865	750	ø28	1295	397	535	22	ø600	ø550	ø660	8-ø24	6	875
315M	4-8	315	45	865	750	ø28	1325	427	535	22	ø600	ø550	ø660	8-ø24	6	875
315L	2	315	45	865	750	ø28	1295	397	535	22	ø600	ø550	ø660	8-ø24	6	875
315L	4-8	315	45	865	750	ø28	1325	427	535	22	ø600	ø550	ø660	8-ø24	6	875
355M	2P顶	355	52	945	850	ø35	1490	403	640	25	ø740	ø680	ø800	8-ø24	6	955
355M	2P旁	355	52	945	850	ø35	1490	424	640	25	ø740	ø680	ø800	8-ø24	6	955
355M	4-8顶	355	52	945	850	ø35	1520	473	640	25	ø740	ø680	ø800	8-ø24	6	955
355M	4-8旁	355	52	945	850	ø35	1520	494	640	25	ø740	ø680	ø800	8-ø24	6	955
355L	2P顶	355	52	945	850	ø35	1490	403	640	25	ø740	ø680	ø800	8-ø24	6	955
355L	2P旁	355	52	945	850	ø35	1490	424	640	25	ø740	ø680	ø800	8-ø24	6	955
355L	4-8顶	355	52	945	850	ø35	1560	473	640	25	ø740	ø680	ø800	8-ø24	6	955
355L	4-8旁	355	52	945	850	ø35	1560	494	640	25	ø740	ø680	ø800	8-ø24	6	955

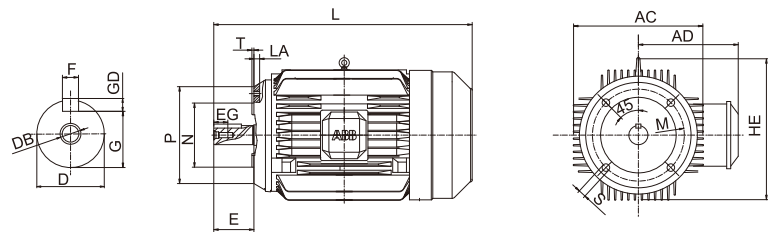
外形尺寸图 Dimension Drawing

Flange-mound, IM B14, IM V18, IM V19
Foot-and flange-mounted, IM B34

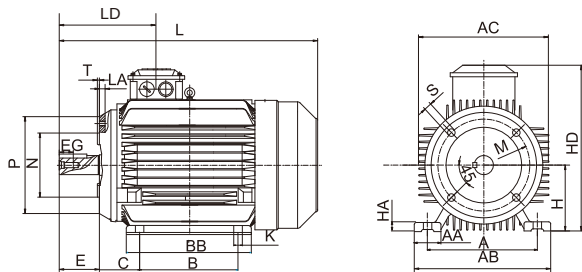
小法兰安装, IM B14, IM V18, IM V19

Cast iron motor
Type M2QA71-160

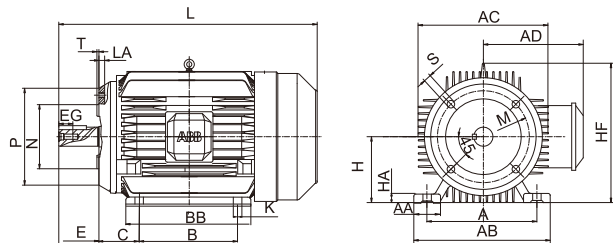
小法兰安装, IM B14
Flange-mounded motor, small flange IM B14



接线盒顶置, IM B34
Terminal box top-mounted IM B34



接线盒旁置, IM B34
Terminal box side-mounted IM B34



Type	Pole	A	AA	AB	AC	B	BB	C	D	E	F	G	GD	DB	EG	H	HA	HD	K	L	LD	AD	LA	HE	HF
M2QA 71M	2-6	112	30	145	145	90	120	45	14	30	5	11	5	M5	12.5	71	10	200	7	255	100	120	10	145	-
80M	2-8	125	35	165	165	100	135	50	19	40	6	15.5	6	M6	16	80	12	225	10	285	116	145	10	200	185
90S	2-8	140	35	175	180	100	140	56	24	50	8	20	7	M8	19	90	12	240	10	310	128	150	10	200	195
90L	2-8	140	35	175	180	125	165	56	24	50	8	20	7	M8	19	90	12	240	10	335	128	150	10	200	195
100L	2-8	160	40	200	205	140	180	63	28	60	8	24	7	M10	22	100	14	275	12	380	138	175	11	270	245
112M	2-8	190	50	240	225	140	190	70	28	60	8	24	7	M10	22	112	15	290	12	395	144	185	11	278	265
132S	2-8	216	55	270	265	140	205	89	38	80	10	33	8	M12	28	132	18	335	12	465	169	205	15	320	300
132M	2-8	216	55	270	265	178	240	89	38	80	10	33	8	M12	28	132	18	335	12	505	169	205	15	320	300
160M	2-8	254	60	325	330	210	265	108	42	110	12	37	8	M16	36	160	22	415	15	600	250	255	18	400	380
160L	2-8	254	60	325	330	254	310	108	42	110	12	37	8	M16	36	160	22	415	15	645	250	255	18	400	380

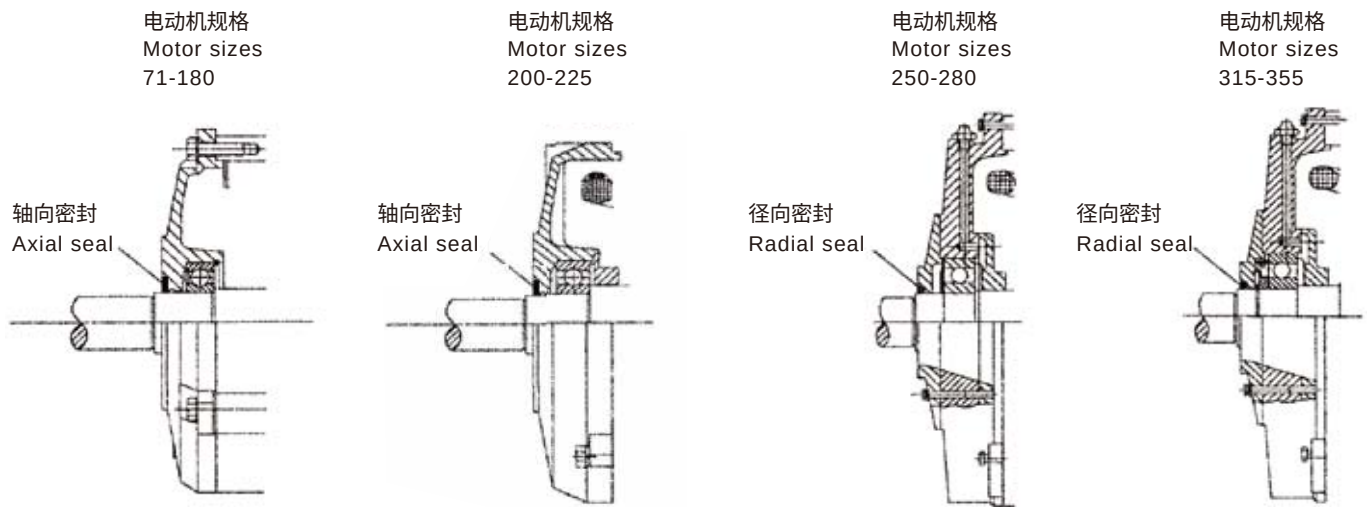
Type	Pole	Size	P	M	N	S	T
M2QA 71M	2-6	C105	105	85	70	M6	2.5
71M	2-6	C140	140	115	95	M8	3.0
80M	2-8	C120	120	100	80	M6	3.0
80M	2-8	C160	160	130	110	M8	3.5
90S	2-8	C140	140	115	95	M8	3.0
90S	2-8	C160	160	130	110	M8	3.5
90L	2-8	C140	140	115	95	M8	3.0
90L	2-8	C160	160	130	110	M8	3.5
100L	2-8	C160	160	130	110	M8	3.5
100L	2-8	C200	200	165	130	M10	3.5
112M	2-8	C160	160	130	110	M8	3.5
112M	2-8	C200	200	165	130	M10	3.5
132S	2-8	C200	200	165	130	M10	3.5
132M	2-8	C200	200	165	130	M10	3.5
160M	2-8	C250	250	215	180	M12	4
160L	2-8	C250	250	215	180	M12	4



轴端密封 Bearing Seals

电动机标配为下列密封。
The size and type of seals are in accordance with the table below.

电动机规格 Motor size	说明驱动端 Description D-end	标准设计，轴向密封 驱动端 Standard design Axial seal D-end	标准设计 径向密封(DIN 3760) 代码072	Standard design Radial seal (DIN 3760) Variant code 072
71	驱动端密封轴承， 轴向密封， 防尘密封圈 Sealed bearings (2RS) and axial seal, gamma ring, at D-end	RB15 x 30 x 4		
80		RB20 x 35 x 4		
90		RB25 x 40 x 4		
100		RB30 x 47 x 4.5		
112		RB35 x 52 x 4.5		
132		RB40 x 57 x 4.5		
160	驱动端轴向密封，防尘密封圈 Axial seal, gamma ring, at D-end	RB45 x 62 x 4.5		
180		RB50 x 70 x 5.5		
200		RB60 x 80 x 5.5		
225		RB65 x 85 x 5.5		
250	两端带径向密封 Radial seal, at both-ends (标准配制 Standard)		TC70 x 85 x 10	
280			TC80 x 100 x 10	
315			2p	TC80 x 100 x 10
			4-8p	TC95 x 120 x 12
355			2p	TC95 x 120 x 12
			4-8p	TC110 x 130 x 13
	TC95 x 120 x 12			



选择电缆接口
Select Cable Entry

Type 型号	Germany Standard Screw (metric) 德国标准螺钉(公制)	DIN Standard Pg Screw DIN标准Pg制式螺钉
71	2-M16x1.5	2-Pg11
80-90	2-M25x1.5	2-Pg16
100-132	2-M32x1.5	2-Pg21
160-180	2-M40x1.5	2-Pg29
200-225	2-M50x1.5	2-Pg36
250-280	2-M63x1.5	2-Pg42
315-355	2-M63x1.5	2-Pg48

M2QA铸铁电动机，基本设计概述

M2QA Cast Iron Motors in Brief, Basic Design

电动机规格 Motor size		71	80	90	100	112	132	160
定子 Stator	材料 Material	铸铁 Cast iron HT150 GB/T9439						
	油漆色调 Paint colour shade	蓝色 Blue, Munsell 8B 4.5/3.25/NCS 4822 B05G						
	油漆厚度 Paint thickness	油漆厚度 2层821丙烯酸聚胺酯磁漆，厚度≥60μm Two-pack 821 Acid Polyurethane Enamel, thickness≥60μm						
轴承端罩 Bearing end shields	材料 Material	铸铁 Cast iron HT150 GB/T9439						
	油漆色调 Paint colour shade	蓝色 Blue, Munsell 8B 4.5/3.25/NCS 4822 B05G						
	油漆厚度 Paint thickness	2层821丙烯酸聚胺酯磁漆，厚度≥60μm Two-pack 821 Acid Polyurethane Enamel, thickness≥60μm						
轴承 Bearings	驱动端 D-end	6202	6204	6205	6206	6207	6208	6309
	游隙 Radial internal clearance	C3	C3	C3	C3	C3	C3	C3
	非驱动端 N-end	6202	6204	6205	6206	6206	6207	6209
	游隙 Radial internal clearance	C3	C3	C3	C3	C3	C3	C3
轴向锁紧轴承 Axially-locked bearings	弹簧圈 Spring ring	标准件，驱动端锁定 As standard, locked at D-end						
润滑 Lubrication		终生润滑 Greased for life						
铭牌 Rating plate	材料 Material	不锈钢 Stainless steel						
接线盒 Terminal box	框架材料 Frame material	铸铁 Cast iron HT150 GB/T9439						
	盒盖材料 Cover material	铸铁 Cast iron HT150 GB/T9439						
连接 Connections	进线 Cable entries	2-M16x1.5 2-M16x1.5	2-M16x1.5 2-M25x1.5	2-M16x1.5 2-M25x1.5	2-M16x1.5 2-M32x1.5	2-M16x1.5 2-M32x1.5	2-M16x1.5 2-M32x1.5	2-M16x1.5 2-M40x1.5
	端子 Terminals	6个接线端子 6 terminals for connection						
风扇 Fan	材料 Material	强化玻璃纤维 Reinforced glass fiber						
风扇罩 Fan cover		钢 Steel						
	材料 Material	蓝色 Blue, Munsell 8B 4.5/ 3.25/NCS 4822 B05G						
	油漆色调 Paint colour	2层821丙烯酸聚胺酯磁漆，厚度≥60μm Two-pack 821 Acid Polyurethane Enamel, thickness≥60μm						
定子绕组 Stator winding	材料 Material	铜 Copper						
	绝缘 Insulation	绝缘等级F Insulation class F						
	绕组保护 Winding	根据用户要求 On request						
转子绕组 Rotor winding	材料 Material	压模铸铝 Pressure die-cast aluminium						
平衡方法 Balancing method		标准配置采用半键平衡 Half key balancing as standard						
键槽 Key ways		开式键槽 Open key way						
外壳防护等级 Enclosure		IP 55						
冷却方法 Cooling method		IC 411						

*) For vertical-mounted motors, pls see the specification on the rating plate.

M2QA铸铁电动机，基本设计概述

M2QA Cast Iron Motors in Brief, Basic Design

电动机规格 Motor size		180	200	225	250	280	315	355
定子 Stator	材料 Material	铸铁 Cast iron HT150 GB/T9439			铸铁 HT200 GB/T9439 (立式安装电动机除外) Cast iron HT200 GB/T9439 except vartical-mounted			
	油漆色调 Paint colour shade	蓝色 Blue, Munsell 8B 4.5/3.25/NCS 4822 B05G						
	油漆厚度 Paint thickness	油漆厚度 2层821丙烯酸聚胺酯磁漆, 厚度≥60µm Two-pack 821 Acid Polyurethane Enamel, thickness≥60µm						
轴承端罩 Bearing end shields	材料 Material	铸铁 Cast iron HT150 GB/T9439			铸铁HT200 GB/T9439 (立式安装电动机除外) Cast iron HT200 GB/T9439 except vartical-mounted			
	油漆色调 Paint colour shade	蓝色 Blue, Munsell 8B 4.5/3.25/NCS 4822 B05G						
	油漆厚度 Paint thickness	2层821丙烯酸聚胺酯磁漆, 厚度≥60µm Two-pack 821 Acid Polyurethane Enamel, thickness≥60µm						
轴承 Bearings	驱动端 D-end	6310	6312	6313	6314 *	6316 *	6316(2P) * 6319(4/6/8P)	6319M(2P) * 6322(4/6/8P)
	游隙 Radial internal clearance	C3	C3	C3	C3	C4(2P) C3(4/6/8P)	C4(2P) C3(4/6/8P)	C4(2P) C3(4/6/8P)
	非驱动端 N-end	6210	6212	6213	6214 *	6316 *	6316(2P) * 6319(4/6/8P)	6319M(2P) * 6319(4/6/8P)
	游隙 Radial internal clearance	C3	C3	C3	C3	C4(2P) C3(4/6/8P)	C4(2P) C3(4/6/8P)	C4(2P) C3(4/6/8P)
轴向锁紧轴承 Axially-locked bearings	弹簧圈 Spring ring	Spring ring Locked at D-end	As standard locked at D-end		As standard locked at ND-end			
润滑 Lubrication		Greased for life or regreasable			Regreasable bearings			
铭牌 Rating plate	材料 Material	Stainless steel						
接线盒 Terminal box	框架材料 Frame material	Cast iron HT150 GB/T9439			Cast iron HT200 GB/T9439			
	盒盖材料 Cover material	Cast iron HT150 GB/T9439			Cast iron HT200 GB/T9439			
连接 Connections	进线 Cable entries	2-M16x1.5 2-M40x1.5	2-M16x1.5 2-M50x1.5	2-M16x1.5 2-M50x1.5	2-M20x1.5 2-M63x1.5	2-M20x1.5 2-M63x1.5	2-M20x1.5 2-M63x1.5	
	端子 Terminals	6个接线端子 6 terminals for connection						
风扇 Fan	材料 Material	强化玻璃纤维 Reinforced glass fiber				强化玻璃纤维或铝制 Reinforced glass fiber or aluminium		
风扇罩 Fan cover		钢 Steel						
	材料 Material	蓝色 Blue, Munsell 8B 4.5/ 3.25/NCS 4822 B05G						
	油漆色调 Paint colour	2层821丙烯酸聚胺酯磁漆, 厚度≥60µm Two-pack 821 Acid Polyurethane Enamel, thickness≥60µm						
定子绕组 Stator winding	材料 Material	铜 Copper						
	绝缘 Insulation	绝缘等级F Insulation class F						
	绕组保护 Winding	根据用户要求 On request						
转子绕组 Rotor winding	材料 Material	压模铸铝 Pressure die-cast aluminium						
平衡方法 Balancing method		标准配置采用半键平衡 Half key balancing as standard						
键槽 Key ways		开式键槽 Open key way						
外壳防护等级 Enclosure		IP 55						
冷却方法 Cooling method		IC 411						

*) For vertical-mounted motors, pls see the specification on the rating plate.

M2QA系列三相异步电动机变量代码(简称M2VC)

M2QA Variant Code

代码/Code	变量/Variant	Frame Size													
		71	80	90	100	112	132	160	180	200	225	250	280	315	355
管理/Administration															
531	海运包装 Sea freight packing	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
平衡/Balancing															
423	无键平衡 Balanced without key.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
424	全键平衡 Full key balancing.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
轴承与润滑/Bearings and Lubrication															
036	轴承装运锁 Transport lock for bearings.	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P	P
037	D端圆柱滚子轴承 Roller bearing at D-end.	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P	P
039	耐低温油脂 Cold resistant grease.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
040	耐高温油脂 Heat resistant grease.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
041	通过注油孔对轴承加油 Bearings regreasable via grease nipples.	NA	NA	NA	NA	R	P	P	P	P	P	S	S	S	S
058	D端角接触球轴承, 轴向力远 离轴承 Angular contact bearing at D-end,shaft force away from bearing.	NA	NA	NA	NA	NA	NA	R	R	R	R	R	R	R	R
059	N端角接触球轴承, 轴向指向 离轴承 Angular contact bearing at N-end,shaft force towards bearing.	NA	NA	NA	NA	NA	NA	R	R	R	R	R	R	R	R
060	D端角接触球轴承, 轴向指向 离轴承 Angular contact bearing at D-end,shaft force towards bearing.	NA	NA	NA	NA	NA	NA	R	R	R	R	R	R	R	R
061	N端角接触球轴承, 轴向指向 离轴承 Angular contact bearing at N-end,shaft force away from bearing.	NA	NA	NA	NA	NA	NA	R	R	R	R	R	R	R	R
043	SPM震动测量接头 SPM compatible nipples for vibration measurement.	NA	NA	NA	NA	R	P	P	P	P	P	P	P	P	P
130	轴承Pt100(3线) Pt100 3-wire in bearing.	NA	NA	NA	NA	NA	NA	R	R	R	R	R	R	R	R
195	全封闭轴承 Bearings greased for life.	S	S	S	S	S	S	S	S	S	S	NA	NA	NA	NA
798	不锈钢注油嘴 Stainless steel grease nipples.	NA	NA	NA	NA	P	P	P	P	P	P	P	P	P	P
部门标准设计/Branch standard designs															
209	非标电压或频率(特殊绕组) Non-standard voltage or frequency.(special winding)	R	R	R	R	R	R	R	R	R	R	R	R	R	R
168	仅涂底漆 Primer paint only.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
178	不锈钢/耐酸螺栓 Stainless steel/acid proof bolts.	R	R	R	R	R	R	R	R	R	R	R	R	R	R
396	用于环境温度-20°C~-40°C 的电机电,带空间加热带 (代码450/451必须) Motor designed for ambient temperature -20°C~-40°C, with space heaters(code 450/451 must be added).	P	P	P	P	P	P	P	P	P	P	P	P	P	P
425	防腐蚀定子和转子 Corrosion protected stator and rotor core.	P	P	P	P	P	P	P	P	P	P	R	R	R	R
冷却系统/Cooling system															
068	轻金属风扇 (合金) Light alloy metal fan.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
075	冷却方式IC418 (无风扇) Cooling method IC418 (without fan).	P	P	P	P	P	P	P	P	P	P	P	P	P	P

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M2QA系列三相异步电动机变量代码(简称M2VC)

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		71	80	90	100	112	132	160	180	200	225	250	280	315	355
文件材料/Documentation															
141	配外形图 Binding dimension drawing.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
排水孔/Drain holes															
065	塞紧现有排水孔 Plugged existing drain holes.	S	S	S	S	S	S	S	S	S	S	P	P	P	P
接地螺栓/Earthing Bolt															
067	外部接地螺栓 External earthing blolt.	P	P	P	P	P	P	P	P	P	P	S	S	S	S
加热元件/Heating elements															
450	加热带100-120V Heating elements,100-120V	P	P	P	P	P	P	P	P	P	P	P	P	P	P
451	加热带200-240V Heating elements,200-240V	P	P	P	P	P	P	P	P	P	P	P	P	P	P
绝缘系统/Insulation system															
014	H级绝缘绕组 Winding insulation class H.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
安装方式/Mounting agrangements															
008	IM2101底脚/法兰安装, IEC 法兰, 由IM1001派生(B3派生出B34) IM2101 foot/flange mounted, IEC flange,from IM1001(B34 from B3)	P	P	P	P	P	P	P	NA	NA	NA	NA	NA	NA	NA
009	IM2001底脚/法兰安装, IEC 法兰, 由IM1001派生(B3派生出B35) IM2001 foot/flange mounted, IEC flange,from IM1001(B35 from B3)	P	P	P	P	P	P	P	P	P	P	P	P	P	P
047	IM3601法兰安装, IEC法兰, 由IM3001派生(B5派生出B14) IM3601 flange mounted, IEC flange,from IM3001(B14 from B5)	P	P	P	P	P	P	P	NA	NA	NA	NA	NA	NA	NA
066*	非标安装方式 (请指定IM×××) (除B3(1001)、B5(30010、B14(3601), IM B35(2001) &IM B34))(2101)外的其它安装型式须在定单中注明 Modified for specified mounting position differing from IM B3(1001),IM B5 (3001.),B14(3601),IM B35 (2001)&IM B34))	P	P	P	P	P	P	P	P	P	P	R	R	R	R
999	非标安装方式 (请指定IM ×××)(除B3(1001)、B5 (30010、B14(3601), IM B35(2001)&IM B34)(2101)外的其它安装型式须在定单中注明). 铸铁需加强 Modified for specified mounting position differing from IM B3(1001),IM B5(3001), B14(3601), IM B35(2001)&IM B34(2101),strengthen the casting)	NA	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P
999	大法兰 (C***) B14 big flange	P	P	P	P	P	NA	NA	NA	NA	NA	NA	NA	NA	NA
喷漆/Painting															
114	特殊油漆颜色, 标准等级 Special paint colour,standard grade.	R	R	R	R	R	R	R	R	R	R	R	R	R	R
106	喷涂厚度=80µm Paint thickness =80µm.	R	R	R	R	R	R	R	R	R	R	R	R	R	R
109	喷涂厚度=120µm Paint thickness =120µm.	R	R	R	R	R	R	R	R	R	R	R	R	R	R
110	喷涂厚度=160µm Paint thickness =160µm.	R	R	R	R	R	R	R	R	R	R	R	R	R	R

*安装型为: B6、B7、B8、V1、V15、V3、V35、V5、V6 (H250以上仅限V1、V15)
*Mounting arrangements:B6、B7、B8、V1、V15、V3、V35、V5、V6 (only V1、V15 for H250 and above)

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		71	80	90	100	112	132	160	180	200	225	250	280	315	355
防护/Protection															
005	金属防雨罩, 立式电机, 轴伸向下 Metal protective roof,vertical motor shaft down.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
072	D端径向密封 Radial seal at D-end.	P	P	P	P	P	P	P	P	P	P	S	S	S	S
158	防护等级IP65 Degree of protection IP65	P	P	P	P	P	P	P	P	P	P	P	P	P	P
403	防护等级IP56 Degree of protection IP56	P	P	P	P	P	P	P	P	P	P	P	P	P	P
784	D端伽码密封 Gamma-seal at D-end.	S	S	S	S	S	S	S	S	S	S	NA	NA	NA	NA
铭牌和指示牌/Rating & instuction plates															
002	重敲铭牌电压、频输出、连续工作制 Restamping voltage,frequency and output,continuous duty.	R	R	R	R	R	R	R	R	R	R	R	R	R	R
095	重刻输出功率(相同电压、频率下), 间歇工作制 Restamping output(maintained voltage,frequency),intermittent duty.	R	R	R	R	R	R	R	R	R	R	R	R	R	R
135	安装额外不锈钢指示牌 Mounting of additional identification plate,stainless.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
轴和转子/Shaft & rotor															
070	D端特殊轴伸, 标准材料 Special shaft extension at D-end,shandard shaft material.	R	R	R	R	R	R	R	R	R	R	R	R	R	R
069	标准双出轴 Two shaft extension as per basic catalogue	P	P	P	P	P	P	P	P	P	P	P	P	P	NA
164	闭口键槽轴伸 Shaft extension with closed key-way.	R	R	R	R	R	R	R	R	R	R	R	R	R	R
165	开口键槽轴伸 Shaft extension with open key-way.	S	S	S	S	S	S	S	S	S	S	S	S	S	S
标准和规范/Standards and Regulations															
331	IE1电机用于欧洲以外地区 IE1 motor not for sale for use in EU.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
115	符合ISO 12944-5:2007的喷漆系统C4M Painting system C4M acc.To ISO12944-5:2007	R	R	R	R	R	R	R	R	R	R	R	R	R	R
754	符合ISO 12944-5:2007的喷漆系统C5M Painting system C5M acc.To ISO12944-5:2007	R	R	R	R	R	R	R	R	R	R	R	R	R	R
定子绕组温度传感器/Stator winding temperature sensors															
120	定子绕组安装KTY 84-130 (每相1个) KTY 84=130(1 per phase) in stator winding.	R	R	R	R	R	R	R	R	R	R	R	R	R	R
121	定子绕组安装双金属温度开关(NCC,3个串联,130°C) Bimetal detectors,break type (NCC),(3 in series),130°C,in stator winding.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
122	定子绕组安装双金属温度开关(NCC,3个串联,150°C) Bimetal detectors,break type (NCC),(3 in series),150°C,in stator winding.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
123	定子绕组安装双金属温度开关(NCC,3个串联,170°C) Bimetal detectors,break type (NCC),(3 in series),170°C,in stator winding.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
124	定子绕组安装双金属温度开关(NCC,3个串联, 140°C) Bimetal detectors,break type (NCC),(3 in series),140°C,in stator winding.	P	P	P	P	P	P	P	P	P	P	P	P	P	P

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M2QA系列三相异步电动机变量代码(简称M2VC)

M2QA Variant Code

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		71	80	90	100	112	132	160	180	200	225	250	280	315	355
定子绕组温度传感器/Stator winding temperature sensors															
125	定子绕组安装双金属温度开关(NCC,2×3个串联,150°C) Bimetal detectors,break type (NCC),(2×3 in series),150°C, in stator winding.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
127	定子绕组安装双金属温度开关(NCC,3个串联,130°C以及3个串联, 150°C) Bimetal detectors,break type (NCC),(3 in series 130°C&3 in series 150°C),in stator winding.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
435	定子绕组安装PTC-热敏电阻(3个串联),130°C PTC-thermistors(3 in series), 130°C in stator winding.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
436	定子绕组安装PTC-热敏电阻(3个串联),150°C PTC-thermistors(3 in series), 150°C in stator winding.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
437	定子绕组安装PTC-热敏电阻(3个串联),170°C PTC-thermistors(3 in series), 170°C in stator winding.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
439	定子绕组安装PTC-热敏电阻(2×3个串联) , 150°C PTC-thermistors(2×3 in series), 150°C, in stator winding.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
440	定子绕组安装PTC-热敏电阻(3个串联, 110°C以及3个串联, 130°C) PTC-thermistors(3 in series 110°C & 3 in series 130°C),in stator winding.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
441	定子绕组安装PTC-热敏电阻(3个串联, 130°C以及3个串联, 150°C) PTC-thermistors(3 in series 130°C &3 in series 150°C),in stator winding.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
442	定子绕组安装PTC-热敏电阻(3个串联, 150°C以及3个串联, 170°C) PTC-thermistors(3 in series 150°C &3 in series 170°C),in stator winding.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
445	定子绕组安装PT100(2线),每相1个 PT100 2-wire in stator winding,1 per phase.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
446	定子绕组安装PT100(2线),每相2个 PT100 2-wire in stator winding, 2 per phase.	NA	NA	NA	P	P	P	P	P	P	P	P	P	P	P
502	定子绕组安装PT100(3线),每相1个 PT100 3-wire in stator winding, 1 per phase.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
503	定子绕组安装PT100(3线),每相2个 PT100 3-wire in stator winding, 2 per phase.	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P
接线盒/Terminal box															
021	左侧接线盒(从D端看) Terminal box LHS(see from D-end).	NA	P	P	P	P	P	P	P	P	P	P	P	P	P
022	电缆进线孔在左侧(从D端看) Cable entry LHS(see from D-end).	P	P	P	P	P	P	P	P	P	P	P	P	P	P
157	接线盒防护等级IP65 Terminal box degree of protection IP65	P	P	P	P	P	P	P	P	P	P	P	P	P	P
180	右侧接线盒(从D端看) Terminal box RHS(see from D-end).	NA	P	P	P	P	P	P	P	P	P	P	P	P	P

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		71	80	90	100	112	132	160	180	200	225	250	280	315	355
接线盒/Terminal box															
376	两个标准塑料葛兰 Two standard plastic cable glands.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
400	4×90度可转动的接线盒 4×90 degr turnable terminal box.	S	S	S	S	S	S	P	P	P	P	P	P	P	P
418	独立的辅助接线盒, 标准材料 Separate terminal box for auxiliaries ,standard material.	NA	NA	NA	NA	NA	NA	R	R	R	R	R	R	R	R
468	电缆进线孔朝D端 Cable entry from D-end.	NA	P	P	P	P	P	P	P	P	P	P	P	P	P
469	电缆进线孔朝N端 Cable entry from N-end.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
704	EMC电缆密封管 EMC cable gland.	R	R	R	R	R	R	R	R	R	R	R	R	R	R
731	2个标准金属电缆密封管 Two standard metal cable glands.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
738	预留公制单位葛兰 Prepared for metric cable glands.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
740	预留PG单位葛兰 Prepared for PG cable glands.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
016	接线盒内9头出现 9 terminals in terminal box.	P	P	P	P	P	P	NA	NA	NA	NA	NA	NA	NA	NA
142	马尼拉接线 Manilla connection.	NA	NA	NA	NA	P	P	P	P	P	P	P	P	P	P
137	延长型电缆连接, 散线引出 (无接线板), 压板式, 引出线 长按照标准 Extended cable connected,low terminal box,"Flying leads", factory standard.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
试验/Testing															
145	目录电机的型式试验报告, 400V 50HZ Type test report from a catalogue motor,400V 50HZ.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
146	指定交货批次内的某一电机的型式试验及报告 Type test with report for one motor from special delivery batch.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
147	指定交货批次内的某一电机的型式试验报告, 客户现场见证 Type test with report for motor from special delivery bach, customer witnessed.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
148	出厂试验报告 Routine test report.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
221	指定交货批次的电机型式试验和多点负载测试, 并提交报告 Tyoe test and multi-point load test with report for one motor from specific delivery batch.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
222	指定交货批次的一台电机转矩转速曲线、型式试验和多点负载测试, 并提交报告 Tyoe test and multi-point load test with report for one motor from specific delivery batch.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
760	振动等级检测 Vibration level test.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
762	对指定交货批次内的一台电机进行噪声等级测试 Noise level test for one motor from specific delivery batch.	P	P	P	P	P	P	P	P	P	P	P	P	P	P

S=在标准情况下包含
R=根据需要, 技术确认
NA=不适用
P=根据需要, 直接排产

S=Included as standard
R=On request
NA=Not applicable
P=Applicable

总部 Headquarter

ABB (中国) 有限公司 ABB (China) Ltd.
中国北京市朝阳区酒仙桥路10号恒通广厦, 100016
Universal Plaza, 10 Jiuxianqiao Lu, Chaoyang District,
Beijing, 100016, P.R. China
电话(Tel): +86 10 8456 6688
传真(Fax): +86 10 8456 7613

销售机构 Sales Organizations

北京 Beijing
中国北京市朝阳区酒仙桥路10号恒通广厦, 100016
Universal Plaza, 10 Jiuxianqiao Lu, Chaoyang District,
Beijing, 100016, P.R. China
电话(Tel): +86 10 8456 6688
传真(Fax): +86 10 8456 7613

长春 Changchun

中国吉林省长春市亚泰大街3218号通钢国际大厦A座
A4层A401室, 130022
Room A401, A4th floor, Tower A, Tisco International
Mansion, 3218 Yatai Dajie, Changchun, Jilin, 130022,
P.R. China
电话(Tel): +86 431 862 0866
传真(Fax): +86 431 862 0899

长沙 Changsha

中国湖南省长沙市黄兴中路88号平和堂商务楼
12B01, 410005
Suite 12B01, Ping HeTang Commercial Building, 88
Huang Xing Middle Road, Changsha, Hu'nan,
410005, P.R. China
电话(Tel): +86 731 268 3088
传真(Fax): +86 731 444 5519

成都 Chengdu

中国四川省成都市人民南路四段19号威斯頓联邦大厦
10楼, 610041
10th floor, Western Tower No.19 Section 4,
Renminnan Road, Chengdu, Sichuan, 610041,
P.R. China
电话(Tel): +86 28 8526 8800
传真(Fax): +86 28 8526 8900

重庆 Chongqing

中国重庆市南坪北路15号重庆扬子江假日饭店4楼,
400060
4/F, Yangtze Holiday Inn Chongqing No.15, Nan
Ping Bei Road, Chongqing, 400060, P.R. China
电话(Tel): +86 23 6282 6688
传真(Fax): +86 23 6280 5369

大连 Dalian

中国辽宁省大连市西岗区中山路147号森茂大厦18楼,
116011
18/F Senmao Building, No.147, Zhongshan Road,
Xigang District, Dalian, Liaoning, 116011, P.R. China
电话(Tel): +86 411 8899 3355
传真(Fax): +86 411 8899 3359

福州 Fuzhou

中国福建省福州市五四路158号环球广场30层3002室,
350003
Room 3002, 30F Worldwide Plaza, 158 Wusi Road,
Fuzhou, Fujian, 350003, P.R. China
电话(Tel): +86 591 8785 8224
传真(Fax): +86 591 8781 4889

广州 Guangzhou

中国广东省广州市珠江新城临江大道3号发展中心大厦
22楼, 510623
22/F, Development Center, 3 Linjiang Dadao,
Guangzhou, Guangdong, 510623, P.R. China.
电话(Tel): +86 20 3785 0688
传真(Fax): +86 20 3785 0608

杭州 Hangzhou

中国浙江省杭州市曙光路122号浙江世界贸易中心写
字楼A座12楼, 310007
12/F, Building A, Zhejiang World Trade Center Office
Plaza, 122 ShuGuang Road, Hangzhou, Zhejiang,
310007, P.R. China
电话(Tel): +86 571 8790 1355
传真(Fax): +86 571 8790 1151

哈尔滨 Harbin

中国黑龙江省哈尔滨市南岗区长江路99-9号辰能大
厦14层, 150090
14/F, ChengNeng Building No.99-9, Changjiang
Road, NanGang District, Harbin, Heilongjiang,
150090, P.R. China
电话(Tel): +86 451 8287 6400
传真(Fax): +86 451 8287 6404

合肥 Hefei

中国安徽省合肥市经济技术开发区繁华大道合肥索
菲特明珠国际大酒店大厦壹楼, 230601
1/F, Sofitel Grand Park Hotel Hefei, Hefei Economic
& Technological Development Zone, Fanhua Road,
Hefei, Anhui, 230601, P.R. China
电话(Tel): +86 551 384 9700
传真(Fax): +86 551 384 9707

呼和浩特 Huhhot

中国内蒙古自治区呼和浩特市新城区中山东路20
号艾博科电大厦703室, 010020
Room 703, AIBO e-Town Building, No. 20
Zhongshan East Road, Xincheng District, Hohhot,
Inner Mongolia, 010020, P.R. China
电话(Tel): +86 471 693 1122
传真(Fax): +86 471 691 6331

香港 Hong Kong

中国香港新界大埔大埔工业村大喜街3号
Tai Po Industrial Estate, 3 Dai Hei Street, Tai Po,
NT, HK SAR, P.R. China
电话(Tel): +852 2929 3838
传真(Fax): +852 2929 3553

济南 Ji'nan

中国山东省济南市泉城路17号华能大厦8楼8801室,
250011
Room 8801, 8/F, Huaneng Building No. 17, Quan
Cheng Road, Ji'nan, Shandong, P.R. China
电话(Tel): +86 531 609 2726
传真(Fax): +86 531 609 2724

昆明 Kunming

中国云南省昆明市青年路399号昆明年邦克饭店601
室, 650011
Room 601 Kunming Bank Hotel, 399 Youth Road,
Kunming, Yunnan, 650011, P.R. China
电话(Tel): +86 871 315 8188
传真(Fax): +86 871 315 8186

南京 Nanjing

中国江苏省南京市中山东路90号华泰大厦17楼,
210002
17/F, Huatai Securities Mansion, No.90 East
ZhongShan Road, Nanjing, Jiangsu, 210002, P.R. China
电话(Tel): +86 25 8664 5645
传真(Fax): +86 25 8664 5338

南宁 Nanning

中国广西省南宁市新民路34-18号中明大厦10楼D
室, 530012
Unit D, 10/F Zhongming Building, 34-18 Xinmin
Road, Nanning, Guangxi, 530012, P.R. China
电话(Tel): +86 771 282 7123
传真(Fax): +86 771 282 7110

宁波 Ningbo

中国浙江省宁波市解放南路188号新园宾馆办公楼11
楼D室, 315000
Room D, 11/F, Xinyuan Hotel, 188 South Jiefang
Road, Ningbo, Zhejiang, 315000, P.R. China
电话(Tel): +86 574 8717 0322
传真(Fax): +86 574 8731 8179

青岛 Qingdao

中国山东省青岛市香港中路12号丰合广场B区410室,
266071
Room 310, Area B of Fenghe Plaza, No. 12 Hong
Kong Middle Road, Qingdao, Shandong, 266071,
P.R. China
电话(Tel): +86 532 8502 6396
传真(Fax): +86 532 8502 6395

上海 ABB 电机有限公司

中国上海闵行区经济技术开发区天宁路88号
邮编: 200245
电话: +86 21 5472 3133
传真: +86 21 5472 5025
网址: www.abb.com.cn

上海 Shanghai

中国上海市西藏中路268号来福士广场(办公楼)35楼,
200001
35th floor, Raffles City (Office) 268 Xizang Zhong Lu,
Shanghai, 200001, P.R. China
电话(Tel): +86 21 6122 8888
传真(Fax): +86 21 6122 8822

沈阳 Shenyang

中国辽宁省沈阳市和平区南京北街206号沈阳假日大厦城
市广场二座3-166室, 110001
Rm. 3-166, Tower II, City Plaza Shenyang No. 206,
Nanjing North Street, Heping District, Shenyang, Liaoning,
110001, P.R. China
电话(Tel): +86 24 2334 1818
传真(Fax): +86 24 2334 1306

深圳 Shenzhen

中国深圳市福田区福华三路与益田路交汇处
168号深圳国际商会中心30楼3002-06, 518048
Room 3002-06, 30/F, ShenZhen International Chamber
of Commerce Tower, No. 168, Crossways of FuHua 3rd
Road and YiTian Road, FuTian District, ShenZhen,
518048, P.R. China
电话(Tel): +86 755 8831 3088
传真(Fax): +86 755 8831 3033

太原 Taiyuan

中国山西省太原市府西街69号山西国际贸易中心西塔
楼10层1009A号, 030002
Room 1009A, West Tower, International Trade Center,
No. 69 Fuxi Street, Taiyuan, Shanxi, 030002,
P.R. China
电话(Tel): +86 351 868 9292
传真(Fax): +86 351 868 9200

天津 Tianjin

中国天津市和平区南京路189号津汇广场写字楼3402室,
300051
Unit 3402, the Exchange North Tower, 189 Nanjing Road,
Heping District, Tianjin, 300051, P.R. China
电话(Tel): +86 22 8319 1801
传真(Fax): +86 22 8319 1802/3

乌鲁木齐 Urumqi

中国新疆乌鲁木齐市中山路86号中泉广场9楼J座,
830002
9J Zhongquan Plaza, No. 86 Zhongshan Road, Urumqi,
Sinkiang, 830002, P.R. China
电话(Tel): +86 991 283 4455
传真(Fax): +86 991 281 8240

武汉 Wuhan

中国湖北省武汉市武昌中南路七号中商广场写字楼34楼
B3408, 430071
B3408, 34/F, Zhongshang Plaza No.7, Zhongnan
Road, Wuchang, Wuhan, Hubei, 430071, P.R. China
电话(Tel): +86 27 8725 9222
传真(Fax): +86 27 8725 9233

无锡 Wuxi

中国江苏省无锡市新生路107号新鼎球大厦10楼1012室,
214001
Room 1012, 10/F, Xin Ding Qiu Building, No. 107
Xinsheng Road, Wuxi, Jiangsu, 214001, P.R. China
电话(Tel): +86 510 279 1133
传真(Fax): +86 510 275 1236

西安 Xi'an

中国陕西省西安市高新开发区高新路高新国际商务中心
数码大厦16层, 710075
16/F, Digital Building GaoXin Road, Hi-tech Zone, Xi'an,
Shanxi, 710075, P.R. China
电话(Tel): +86 29 8833 7288
传真(Fax): +86 29 8575 8277/8575 8299

郑州 Zhengzhou

河南省郑州市中原西路220号裕达国际贸易中心A座
2207室, 450007
Room 2207, Tower A, Yuda International Trade Center
220 Zhongyuan west Road, Zhengzhou, He'nan,
450007, P.R. China
电话(Tel): +86 371 6771 3588
传真(Fax): +86 371 6771 3873

ABB

ABB Shanghai Motors Co., LTD.

No.88 Tianning Road,
Minhang(Economic & Technical Development
Zone), Shanghai, 200245, P.R. China
Tel: +86 21 5472 3133
Fax: +86 21 5472 5025
http: //www.abb.com.cn