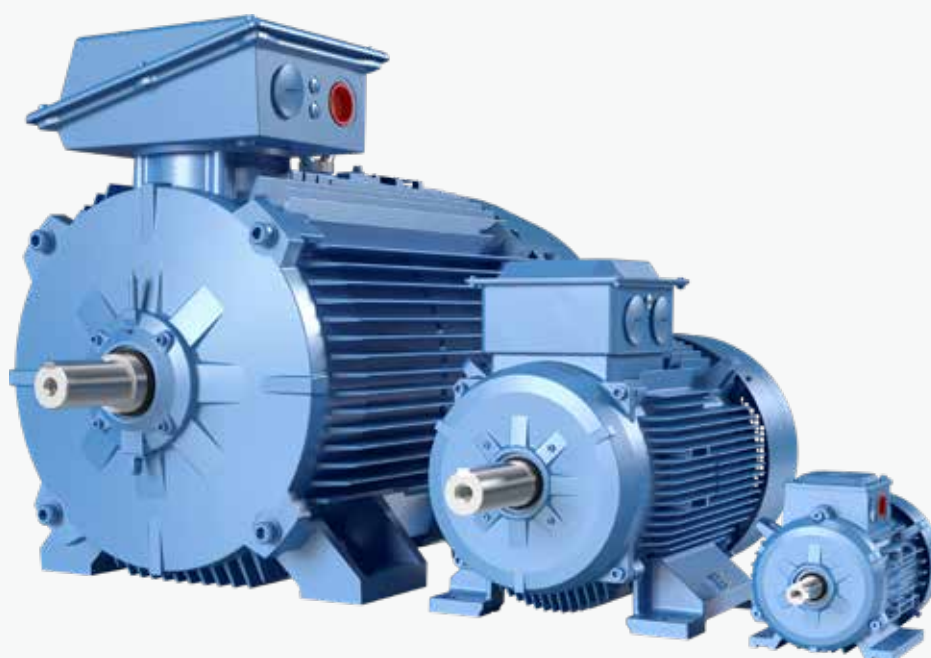


样本

低压一般用途电机

Low voltage

General performance motors



—

ABB 电机与发电机业务单元是拥有超过百年历史的全球行业领导者，提供全系列高效可靠的电机、发电机和机械传动产品，从标准系列的电机与发电机，用于运动控制应用的伺服电机，到特殊应用的防爆电机，牵引电机等，再到减速机、轴承、联轴器，丰富、高质的产品及组合能充分满足几乎所有行业客户的需求，广泛地应用于船舶、港口、电力、石化和食品饮料等众多行业。我们合作伙伴基础坚固，售后服务完善，以最先进的技术，高质量的产品和服务满足客户需求以保持市场竞争力，是被客户认可的中国市场领导者。

通过遍布全球的生产、销售和服务网络，ABB 电机与发电机业务单元为客户提供强大的支持，在中国拥有 1 家亚洲技术中心，4 家本地工厂，7 个销售中心，13 个售后服务中心，以及与合作伙伴共同建成的 9 家三合一中心，集物流仓储、服务和整合中心为一体，覆盖整个区域服务职能，实现对客户的快速响应，持续提高客户的满意度和忠诚度。

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ABB 低压电机拥有了 ABB 的一流品质和雄厚支持，这些电机的性能得到大量客户和 OEM（原始设备制造商）的认可。电机达到 IE2, IE3 效率。

ABB Low voltage motors are with ABB quality and support. These motors have the features appreciated by volume customers and serial OEMs. Motors achieve IE2 and IE3 efficiency.

产品概述

General information

标准

ABB 电机采用全封闭三相鼠笼型设计，其工艺符合 IEC 和 EN 国际标准。同时，可按要求提供符合其他国家规范的电机。

所有生产厂家均通过 ISO 9001 国际质量认证及 ISO 14000 环境标准，并符合所有适用的欧盟指令。



产品简介

ABB M2BAX 系列产品是用于一般用途的低压高效三相异步电动机。该系列电机通过 ABB 全球研发平台设计，面对全球及中国市场。设计遵循 IEC 国际标准以及中国 GB 标准，效率达到 IE2，IE3 能效等级。符合中国 2 级，3 级能效标准（GB18613-2012）。

M2BAX 系列电机主要是针对大批量购买电机的 OEM 客户设计，其应用包括风机、水泵、减速机等，可适用于水处理、暖通空调、食品饮料、纺织、电力、机床、造纸、冶金等行业。M2BAX 的优异品质及服务为客户提供了增值的空间，其标准电机的库存设计和更短的供货周期确保了订单的快速交付，更高的产品灵活性可满足各类客户需求。

Standards

ABB motors are of the totally enclosed, three phase squirrel cage type, built to comply with international IEC and EN standards. Motors conforming to other national and international specifications are also available on request.

All production units are certified to ISO 9001 international quality standard as well ISO 14000 environmental standard and conform to all applicable EU Directives.

IEC/EN

电气 Electrical	机械 Mechanical
IEC/EN 60034-1	IEC 60072
IEC/EN 60034-2-1	IEC/EN 60034-5
IEC/EN 60034-30	IEC/EN 60034-6
IEC/EN 60034-8	IEC/EN 60034-7
IEC/EN 60034-12	IEC/EN 60034-8
	IEC 60034-14

Brief

M2BAX - Low voltage general performance motors are ABB high efficiency products. This series of motors are designed for both the Chinese market and export. Product development is on ABB strong R&D platform. The design is in line with international IEC standards and China local GB standards. The efficiency level reaches IE3 and IE2, equivalent to Grade 2 and Grade 3 (GB18613-2012).

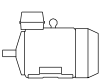
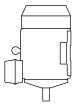
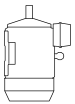
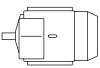
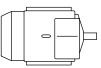
M2BAX is specially designed for OEM customers, mainly integrated with fans, pumps and gear boxes. Main applications include Water & Waste water treatment, HVAC, Food & Beverage, Textile, Power, Pulp & Paper, Metal and others industries. The high quality of M2BAX and the excellent service of ABB continuously make value for the customers. Standard motors are on stock, which can shorten lead time and ensure a fast delivery. Higher product flexibilities lead to meet the ever-changing need from our customers.

产品概述 - 安装结构形式

General information - Mounting arrangements

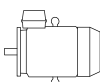
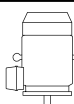
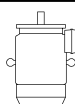
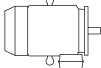
底脚安装型电机

Foot-mounted motor

代码 I / 代码 II Code I / code II						产品代码位置 12 Product code pos. 12
						A = 底脚安装型, 接线盒在顶部 foot-mounted, term.box top
IM B3	IM V5	IM V6	IM B6	IM B7	IM B8	
IM 1001	IM 1011	IM 1031	IM 1051	IM 1061	IM 1071	

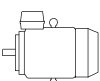
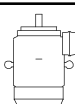
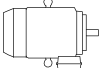
凸缘安装型电机, 大凸缘

Flange-mounted motor, large flange

代码 I / 代码 II Code I / code II						产品代码位置 12 Product code pos. 12
						B = 凸缘安装型, 大凸缘 flange mounted, large flange
IM B5	IM V1	IM V3	*)	*)	*)	
IM 3001	IM 3011	IM 3031	IM 3051	IM 3061	IM 3071	

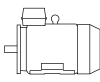
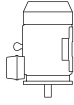
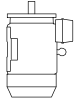
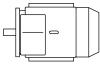
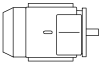
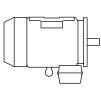
凸缘安装型电机, 小凸缘

Flange-mounted motor, small flange

代码 I / 代码 II Code I / code II						变量代码 Variant code
						047 = B5 派生出 B14 B14 from B5
IM B14	IM V18	IM V19	*)	*)	*)	
IM 3601	IM 3611	IM 3631	IM 3651	IM 3661	IM 3671	

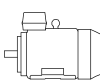
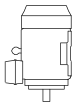
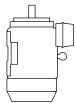
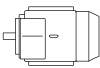
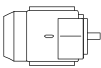
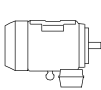
底脚和凸缘安装型电机, 大凸缘

Foot- and flange-mounted motor with feet, large flange

代码 I / 代码 II Code I / code II						变量代码 Variant code
						009 = B3 派生出 B35 B35 from B3
IM B35	IM V15	IM V35	*)	*)	*)	
IM 2001	IM 2011	IM 2031	IM 2051	IM 2061	IM 2071	

底脚和凸缘安装型电机, 小凸缘

Foot- and flange-mounted motor with feet, small flange

代码 I / 代码 II Code I / code II						变量代码 Variant code
						008 = B3 派生出 B34 B34 from B3
IM B34	IM V17	IM V34	*)	*)	*)	
IM 2101	IM 2111	IM 2131	IM 2151	IM 2161	IM 2171	

*) Not Stated in IEC 60034-7.
IEC 60034-7 无规定

产品概述 - 防护等级：IP 代码 / IK 代码

General information - Degrees of protection: IP code/IK code

按旋转电机外壳提供的防护等级分类符合

- 对于 IP 代码，适用 IEC 60034-5 或 EN 60529
- 对于 IK 代码，适用 EN 50102

IP 防护

防止人员接触（或接近）带电部件，以及机壳内的运转部件。同时避免外界固体异物侵入机器内，保护机器，避免进水防止受到有害影响。

IK 代码

机壳保护电机不受外部机械冲击不利影响的程度分级。

Classification of degrees of protection provided by enclosures of rotating machines refers to:

- Standard IEC 60034-5 or EN 60529 for IP code
- Standard EN 50102 for IK code

IP protection

Protection of persons against getting in contact with (or approaching) live parts and against contact with moving parts inside the enclosure. Also protection of the machine against ingress of solid foreign objects. Protection of machines against the harmful effects due to the ingress of water.

IK code

Classification of degrees of protection provided by enclosure for motors against external mechanical impacts.

IP 代码说明 Explanation of the IP code

特征字母 Ingress protection	对人和机壳内电机部件的保护程度 Degree of protection to persons and to parts of the motors inside the enclosure	机壳防止机器进水，遭受有害影响的防水程度 Degree of protection provided by the enclosure with respect to harmful effects due to ingress of water
IP	5	5
	1	2

位置1 Position 1

- 2: 防止大于 12mm 的固体进入机壳
Motors protected against solid objects greater than 12 mm
- 4: 防止大于 1mm 的固体进入机壳
Motors protected against solid objects greater than 1 mm
- 5: 防尘保护电机
Dust-protected motors
- 6: 隔尘电机
Dust-tight motors

位置2 Position 2

- 3: 使电机被溅水后不受损害
Motors protected against spraying water
- 4: 使电机被淋水后不受损害
Motors protected against splashing water
- 5: 使电机被喷水后不受损害
Motors protected against water jets
- 6: 使电机遭大浪后不受损害
Motors protected against heavy seas

IK 代码说明 Explanation of the IK code

国际机械保护 International mechanical protection	特征组 Characteristic group
IK	08
	1

位置1 Position 1

IK代码和冲击能量之间的关系： Relation between IK code and impact energy:

IK代码 IK code	冲击能量焦耳 Impact energy/Joule
0:	不按照EN 50102提供保护 Not protected according to EN 50102
01:	0.15
02:	0.2
03:	0.35
04:	0.5
05:	0.7
06:	1
07:	2
08:	5 (ABB 标准) 5 (ABB Standard)
09:	10
10:	20

订购信息

Ordering information

订购时，请按照示例在订单中说明以下最小数据。电机产品代码根据以下示例编写。

When placing an order, please state the following minimum data in the order, as in the example. The product code of the motor is composed in accordance with the following example.

示例	
电机型号	M2BAX 112 MA
极数	4
安装方式 (IM 代码)	IM B3 (IM1001)
额定输出	4 kW
产品代码	3GBA 112 310-ADCCN
附加代码 (如需)	

Example	
Motor type	M2BAX 112 MA
Pole number	4
Mounting arrangement (IM-code)	IM B3 (IM1001)
Rated output	4 kW
Product code	3GBA 112 310-ADCCN
Variant codes if needed	

产品代码说明

Explanation of the product code

电机型号 Motor type	电机尺寸 Motor size	产品代码 Product code	安装方式代码, 电压及频率代码, 产品族代码 Mounting arrangement, voltage and frequency code, generation codes	变量代码 Variant codes
M2BAX	112MA	3GBA 112 310 - ADCCN		002, etc
		1 2 3 4 5 6 7 8 9 10 11 12 13 14		

位置 1-4			
3GBA = 全封闭铸铁机座电机			
位置 5-6			
IEC 机座			
07 = 71	11 = 112	20 = 200	31 = 315
08 = 80	13 = 132	22 = 225	35 = 355
09 = 90	16 = 160	25 = 250	
10 = 100	18 = 180	28 = 280	
位置 7			
极对数			
1=2 极			
2=4 极			
3=6 极			
4=8 极			
位置 8 -10			
序列号			
位置 11			
-(破折号)			
位置 12			
安装方式			
A = 底脚安装型电机			
B = 凸缘安装型电机带通孔的大凸缘。			
位置 13			
电压和频率			
D 380 VΔ, 400 VΔ, 660 VY 50 Hz			
S 220 VΔ, 380 VY, 400 VY 50 Hz			
位置 14			
产品族代码			

Positions 1 to 4			
3GBA = Totally enclosed motor with cast iron frame			
Positions 5 to 6			
IEC size			
07 = 71	11 = 112	20 = 200	31 = 315
08 = 80	13 = 132	22 = 225	35 = 355
09 = 90	16 = 160	25 = 250	
10 = 100	18 = 180	28 = 280	
Positions 7			
Speed (pole pairs)			
1=2 poles			
2=4 poles			
3=6 poles			
4=8poles			
Positions 8 to 10			
Serial number			
Positions 11			
-(dash)			
Position 12			
Mounting arrangement			
A = Foot-mounted motor			
B = Flange-mounted motor. Large flange with clearance holes.			
Position 13			
Voltage and frequency			
D 380 VΔ, 400 VΔ, 660 VY 50 Hz			
S 220 VΔ, 380 VY, 400 VY 50 Hz			
Position 14			
Generation code			

铭牌

Rating plates

铭牌以表格形式提供六个电压的转速、电流和功率因数的数值。

The rating plates are in table form giving values for speed current and power factor for six voltages.

IE2
机座号 71-355
铭牌示例

						
IE2 IEC 60034-1						
3 ~ Motor M2BAX 80MA 2 IMB3/IM1001						
No.		Ins.cl. F				IP 55
V	Hz	kW	r/min	A	cos φ	Duty
400 Y	50	0.75	2838	1.70	0.82	S1
230 Δ	50	0.75	2838	2.94	0.82	S1
380 Y	50	0.75	2815	1.73	0.85	S1
220 Δ	50	0.75	2815	3.00	0.85	S1
440 Y	60	0.75	3449	1.50	0.82	S1
460 Y	60	0.75	3466	1.51	0.79	S1
50Hz: IE2-77.4(100%)						
Prod. code 3GBA081310-ASCCN						
6204-2Z/C3		6203-2Z/C3				13 kg

IE2
Motor sizes 71 to 355
Rating Plate sample

						
IE2 IEC 60034-1						
3 ~ Motor M2BAX 160MLA 4 IMB3/IM1001						
No.		Ins.cl. F				IP 55
V	Hz	kW	r/min	A	cos φ	Duty
690 Y	50	11	1466	13.2	0.78	S1
400 Δ	50	11	1466	22.8	0.78	S1
660 Y	50	11	1461	13.4	0.81	S1
380 Δ	50	11	1461	23.2	0.81	S1
440 Δ	60	11	1765	20.3	0.79	S1
460 Δ	60	11	1768	20.1	0.77	S1
50Hz: IE2-89.8(100%)						
Prod. code 3GBA162410-ADCCN						
6209-2Z/C3		6209-2Z/C3				110 kg

IE3
机座号 71-355
铭牌示例

						
IE3 IEC 60034-1						
3 ~ Motor IE3 M2BAX 80MC2 IMB3/IM1001						
No.		Ins.cl. F				IP 55
V	Hz	kW	r/min	A	cos φ	Duty
400 Y	50	0.75	2890	1.66	0.81	S1
230 Δ	50	0.75	2890	2.88	0.81	S1
380 Y	50	0.75	2876	1.68	0.84	S1
220 Δ	50	0.75	2876	2.90	0.84	S1
440 Y	60	0.75	3496	1.52	0.84	S1
460 Y	60	0.75	3507	1.59	0.77	S1
50Hz: IE3-80.7(100%)						
Prod. code 3GBA081330-ASDCN						
6204-2Z/C3		6203-2Z/C3				15 kg

IE3
Motor sizes 71 to 355
Rating plate sample

						
IE3 IEC 60034-1						
3 ~ Motor IE3 M2BAX 160MLA4 IMB3/IM1001						
No.		Ins.cl. F				IP 55
V	Hz	kW	r/min	A	cos φ	Duty
690 Y	50	11	1477	12.3	0.82	S1
400 Δ	50	11	1477	21.2	0.82	S1
660 Y	50	11	1474	12.7	0.83	S1
380 Δ	50	11	1474	22.0	0.83	S1
440 Δ	60	11	1778	18.8	0.83	S1
460 Δ	60	11	1777	18.2	0.82	S1
50Hz: IE3-91.4(100%)						
Prod. code 3GBA162410-ADFCN						
6209-2Z/C3		6209-2Z/C3				139 kg

说明：
铭牌图片仅供格式参考，最终数据以实际铭牌为准。

Remark:
The format of the rating plate is for reference only. The final figure will be subject to the actual rating plate.

电气特性

Electrical design

额定输出

M2BAX 系列电机的额定功率是指电机运行在 S1- 连续工作制的情况下（IEC 60034-1），此时周围环境温度范围为 -20°C ~ 40°C，海拔高度不超过 1000m。

电压、频率

IEC 60034-1 定义了电压和频率的波动对温升的影响。标准将电压和频率的综合变化分为 A 和 B 两个区域。区域 A 是电压偏差 $\pm 5\%$ 和频率偏差 $\pm 2\%$ 的情况；区域 B 是电压偏差 $\pm 10\%$ 和频率偏差 $+3\%/-5\%$ 的情况。

电机均能在 A 和 B 两区域内提供额定转矩，但温升会高于在额定电压和频率情况下的值。电机只允许在区域 B 中短时间运行。

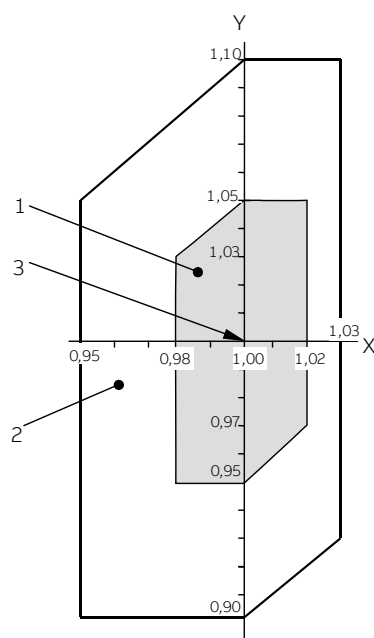
Rated Output

M2BAX motors rated outputs means that the motor runs under continuous duty S1 (IEC 60034-1) operation at ambient temperature from -20°C ~ 40°C and at altitudes of up to 1000 m above sea level.

Voltage and Frequency

The impact on temperature rise caused by voltage and frequency fluctuation is defined in IEC 60034-1. The standard divides the combinations into two zones, zone A and B. Zone A is the combination of voltage deviation $\pm 5\%$ and frequency deviation $\pm 2\%$. Zone B is the combination of voltage deviation $\pm 10\%$ and frequency deviation $+3\%/-5\%$.

The motors are capable of supplying the rated torque in both zone A and B, but the temperature rise will be higher than at rated voltage and frequency. The motors are to be in operation only for a short period of time in zone B.



X 轴 频率标幺值

Y 轴 电压标幺值

1 区域 A

2 区域 B（区域 A 外）

3 额定点

X axis frequency p.u.

Y axis voltage p.u.

1 zone A

2 zone B (outside zone A)

3 rating point

电气特性

Electrical design

绝缘系统

ABB 采用 F 级绝缘材料，B 级温升，是当今业界通用的要求。

F 级绝缘系统 B 级温升的采用，使 ABB 产品可获得 25°C 的安全裕度。这使电机在短时间内过载使用，或在较高环境温度和海拔，或在高电压和频率容差下使用成为可能。这一设计同样可用于延长绝缘寿命。例如，温度降低 10K，绝缘寿命延长。

B 级绝缘 (130°C)

- 额定环境温度 40°C
- 最大允许温升 80K
- 热点温升裕度 10K

F 级绝缘 (155°C)

- 额定环境温度 40°C
- 最大允许温升 105K
- 热点温升裕度 10K

H 级绝缘 (180°C)

- 额定环境温度 40°C
- 最大允许温升 125K
- 热点温升裕度 10K

Insulation

ABB uses class F insulation, which with temperature rise B, is the common requirement among industry today. The use of class F insulation with class B temperature rise gives ABB products a 25 °C safety margin. This can be used to increase the loading for limited periods, to operate at higher ambient temperatures or altitudes, or with greater voltage and frequency tolerances. It can also be used to extend insulation life. For instance, a 10 K temperature reduction will extend the insulation life.

Thermal class 130 (B)

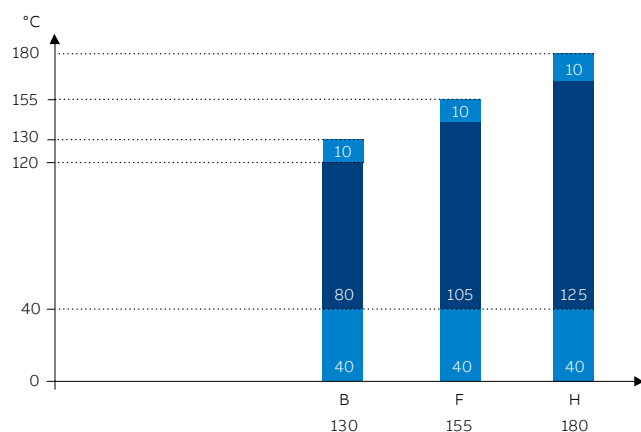
- Nominal ambient temperature 40 °C
- Max permissible temperature rise 80K
- Hot spot temperature margin 10K

Thermal class 155 (F)

- Nominal ambient temperature 40 °C
- Max permissible temperature rise 105K
- Hot spot temperature margin 10K

Thermal class 180 (H)

- Nominal ambient temperature 40 °C
- Max permissible temperature rise 125K
- Hot spot temperature margin 10K



各绝缘等级的安全裕度
Safety margins per thermal class

电气特性

Electrical design

运行环境

根据 IEC 60034-1 规定，容差是指测试值与铭牌 (或样本) 标称值之间的最大允许偏差。测试结果基于按照 IEC 60034-2-1, IEC 60034-9, IEC 60034-12 所规定的测试。

过载倍数

根据 IEC 60034, M2BAX 系列电机能够在额定电压和频率下承受 1.5 倍的额定电流达 2 分钟。

Environmental

In accordance with IEC 60034-1, tolerance is the maximum allowed deviation between the test result and the declared value on the rating plate (or in the catalog). Test results are based on test procedures in accordance with IEC 60034-2-1, IEC 60034-9, and IEC 60034-12.

Overload times

According to IEC 60034, M2BAX motors are designed to withstand overload capacity of 1.5 times rated current for 2 minutes at rated voltage and frequency.

电气数据容差

Tolerance for electricel data

	效率 Efficiency	功率因数 * Power factor	启动电流 Locked rotor current I_s / I_N	堵转转矩 Locked rotor torque T_l / T_N	最大转矩 Breakdown torque T_B / T_N	转动惯量 Moment of inertia	噪声等级 Noise level
PN (kW) ≤ 150	-15 % (1-η)	-1/6 (1-cos Ψ)	+20 % of the current	[-15 % + 25 %] of the torque	-10 % of the value	± 10 % of the value	+3 dB(A)
PN (kW) > 150	-10 % (1-η)						
转差率 Slip							
PN (kW) < 1	± 30 %						
PN (kW) ≥ 1	± 20 %						

* 功率因数容差最小绝对值：0.02，最大绝对值：0.07。
* Power factor minimum absolute value 0.02, maximum absolute value 0.07.

环境温度及海拔高度

标准电机设计的最大环境温度为 40℃，最高海拔为 1000m。如果当电机在较高的环境温度或海拔下运行，输出功率相应降低。详情请咨询 ABB。

Ambient temperatures and high altitudes

Normal motors are designed for operation at a maximum ambient temperature of 40℃ and at a maximum altitude of 1000 meters above sea level. If a motor is operated at higher ambient temperatures or altitude, it should be derated. Detailed information, please contact your ABB sales office.

对于不同高度和（或）不同环境温度的功率换算系数 kHT
Factor kHT for different site altitudes and / or coolant temperature

海拔高度 Site altitude above see level	对应海拔高度的环境温度 Site altitude above see level coolant temperature					
	< 30℃	30 ~ 40℃	45℃	50℃	55℃	60℃
1000 m	1.07	1.00	0.96	0.92	0.87	0.82
1500 m	1.04	0.97	0.93	0.89	0.84	0.79
2000 m	1.00	0.94	0.90	0.86	0.82	0.77
2500 m	0.96	0.90	0.86	0.83	0.78	0.74
3000 m	0.92	0.86	0.82	0.79	0.75	0.70
3500 m	0.88	0.82	0.79	0.75	0.71	0.67
4000 m	0.82	0.77	0.74	0.71	0.67	0.63

机械设计

Mechanical design

表面处理

ABB 低压电机标准喷漆系统符合 ISO/ EN 12944:2 的腐蚀类别 C3M（相当于中等耐腐蚀性及耐用性）。其它耐腐蚀类别 C4M 和 C5M，可以使用变量代码 115，754 进行订购。

ABB 的标准色为蒙赛尔蓝 8B 4.5/3.25。其它颜色，请用变量代码 114，646 进行订购。

机械振动

ABB 标准电机满足 IEC60034-14 标准中的 A 级振动。如需 B 级振动，请使用变量代码 417。

Surface treatment

ABB's standard surface treatment is corrosivity category C3, durability range M (which equal to medium corrosivity and medium durability) based on the ISO 12944 standard. Special surface treatment is available in corrosivity categories C4 and C5, durability class M for both. See variant code 115, 754.

The standard ABB paint color for motors is Munsell blue 8B 4.5/3.25. Other colors are also available, see variant code 114, 646.

Vibration

ABB motor meets the requirements of class A vibration based on IEC60034-14 standard. For class B vibration ,use variant code 417.

机械设计

Mechanical design

机座

包括底脚在内的电机机座是铸铁制成的。整体式铸铁底脚能够实现稳固的安装及降低振动。可提供底脚安装型、凸缘安装型及二者结合的电机。

排水孔

如果在非常湿润或潮湿的环境下，特别是在断续负载下操作电机，则应设置排水孔。根据电机安装方法，指定相应的 IM 标号，如 IM 3031。

机座号为 71 到 355 的电机安装了排水孔及闭合塞。孔塞在出厂时打开。安装电机时，确保排水孔朝下。

垂直安装时，上塞必须完全闭合。在灰尘过多的环境中，两个塞都应闭合。

安装方式不同于底脚安装型 IM B3 时，请在订购时使用变量代码 066。

请参阅“排水孔”标题下的变量代码 066。

Motor frame

The motor frame is made of cast iron, and the standard design includes cast iron feet. Integrated cast iron feet provide rigid mounting, and lower vibration. Motors can be supplied for foot mounting, flange mounting, and combinations of these.

Drain holes

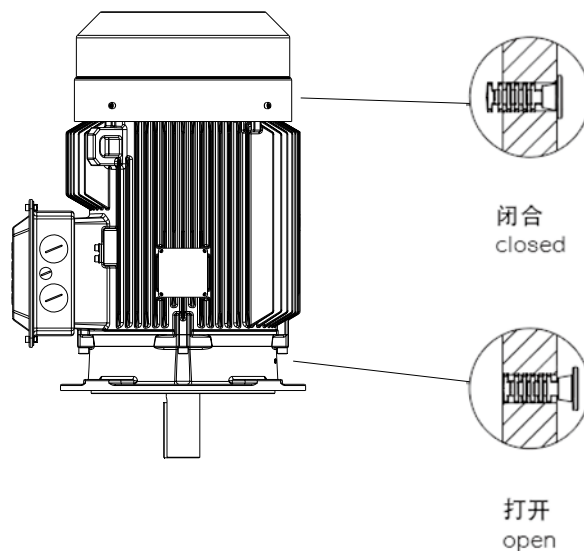
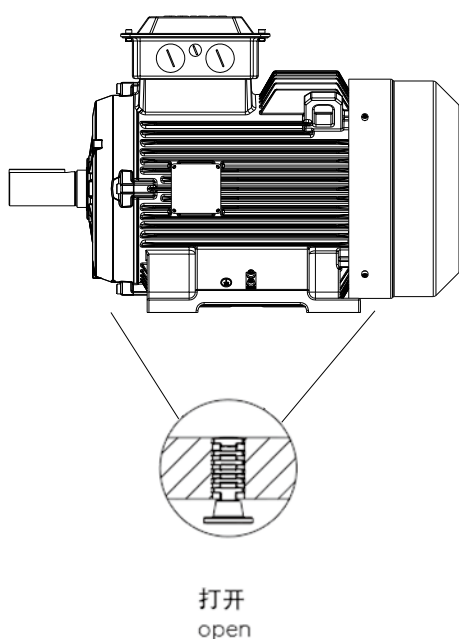
Motors that will be operated in very humid or wet environments, and especially under intermittent duty, should be provided with drain holes. The IM designation, such as IM 3031, determines the intended mounting arrangement for the motor.

Motor sizes 71 - 355 are fitted with drain holes and closable plugs. The plugs are open on delivery. When mounting the motors, ensure that the drain holes face downwards.

In the case of vertical mounting, the upper plug must be hammered home completely. In very dusty environments, both plugs should be hammered home.

When mounting arrangement differs from foot mounted IM B3, mention variant code 066 when ordering.

See variant codes 066 under the heading “Drain holes”.



机座号 71-355
标准情况下配备排水孔及闭合塞

As standard, motor sizes 71 - 355 are delivered with drain holes and closable plugs.

机械设计

Mechanical design

轴承
电机通常安装以下单列深沟球轴承。

标准及可选设计

机座号	极数	标准设计		可选设计
		深沟球轴承		圆柱滚子轴承 (VC037)
		D 端	N 端	D 端
71	2-8	6203-2Z/C3	6202-2Z/C3	
80	2-8	6204-2Z/C3	6203-2Z/C3	
90	2-8	6205-2Z/C3	6204-2Z/C3	
100	2-8	6206-2Z/C3	6205-2Z/C3	
112	2-8	6206-2Z/C3	6205-2Z/C3	
132	2-8	6208-2Z/C3	6208-2Z/C3	
160	2-8	6209-2Z/C3	6209-2Z/C3	NU309ECP/C3
180	2-8	6210-2Z/C3	6209-2Z/C3	NU310ECP/C3
200	2-8	6212-2Z/C3	6209-2Z/C3	NU312ECP/C3
225	2-8	6213-2Z/C3	6210-2Z/C3	NU313ECP/C3
250	2-8	6215-2Z/C3	6212-2Z/C3	NU315ECP/C3
280	2-8	6316/C3	6316/C3	NU316ECP/C3
315	2	6316/C3	6316/C3	NU316ECP/C3
	4-8	6319/C3	6316/C3	NU319ECP/C3
355	2	6316/C3	6316/C3	NU316ECP/C3
	4-8	6322/C3	6316/C3	NU322ECP/C3

说明：
电机铭牌上显示轴承型号及描述方式仅供客户更换、维修轴承作参考，不代表轴承品牌，具体的轴承品牌以公司实际使用的为准。

轴向锁定轴承
所有电机在 D 端标配轴向锁定轴承。

Bearings
General performance motors are normally fitted with single-row deep-groove ball bearings, as shown in the table below.

Standard and alternative designs

Motor size	Number of poles	Standard design		Alternative design
		Deep groove ball bearings		Roller bearings (VC037)
		D-end	N-end	D-end
71	2-8	6203-2Z/C3	6202-2Z/C3	
80	2-8	6204-2Z/C3	6203-2Z/C3	
90	2-8	6205-2Z/C3	6204-2Z/C3	
100	2-8	6206-2Z/C3	6205-2Z/C3	
112	2-8	6206-2Z/C3	6205-2Z/C3	
132	2-8	6208-2Z/C3	6208-2Z/C3	
160	2-8	6209-2Z/C3	6209-2Z/C3	NU309ECP/C3
180	2-8	6210-2Z/C3	6209-2Z/C3	NU310ECP/C3
200	2-8	6212-2Z/C3	6209-2Z/C3	NU312ECP/C3
225	2-8	6213-2Z/C3	6210-2Z/C3	NU313ECP/C3
250	2-8	6215-2Z/C3	6212-2Z/C3	NU315ECP/C3
280	2-8	6316/C3	6316/C3	NU316ECP/C3
315	2	6316/C3	6316/C3	NU316ECP/C3
	4-8	6319/C3	6316/C3	NU319ECP/C3
355	2	6316/C3	6316/C3	NU316ECP/C3
	4-8	6322/C3	6316/C3	NU322ECP/C3

Remark:
The bearing type and description on rating plate do not represent the bearing brand, instead it is a technical consideration that can help the owner to make replacement and set up a maintenance program. The brand is subject to the bearing installed.

Axially-locked bearings
All motors are equipped as standard with an axially locked bearing. General at D-end.

机械设计

Mechanical design

轴密封件

机座号为 71-355 的密封件尺寸和类型符合下表：

Bearing seals

This table presents the standard sizes and types of bearing seals per motor size.

机座号 Motor size	极数 Number of Poles	标准设计 Standard design		可选设计 Optional design	
		轴向密封件 Axial seal		D 端伽玛密封 Gamma seal at D-end	D 端径向密封 Radial seal at D-end
				变量代码 784 Variant codes 784	变量代码 072 Variant codes 072
		D 端 D-end	N 端 N-end		
71	2-8	V-16A	V-14A	17 x 32 x 4	17 x 35 x7
80	2-8	V-20A	V-16A	20 x 35 x 4	20 x 40 x7
90	2-8	V-25A	V-20A	25 x 40 x 4	25 x 42 x7
100	2-8	V-30A	V-25A	30 x 47 x 4.5	30 x 52 x 7
112	2-8	V-30A	V-25A	30 x 47 x 4.5	30 x 52 x 7
132	2-8	V-40A	V-40A	40 x 57 x 4.5	40 x 62 x 7
160	2-8	V-45A	V-45A	45 x 62 x 4.5	45 x 72 x 8
180	2-8	V-50A	V-45A	50 x 70 x 4.5	50 x 80 x 8
200	2-8	V-60A	V-45A	60 x 80 x 4.5	60 x 85 x 8
225	2-8	V-65A	V-50A	65 x 85 x 4.5	65 x 90 x 10
250	2-8	V-75A	V-60A	75 x 95 x 4.5	75 x 100 x 10
280	2	VS80	VS80	80 x 100 x 5.5	NA
	4-8	VS80	VS80	80 x 100 x 5.5	80 x 110 x 10
315	2	VS80	VS80	80 x 100 x 5.5	NA
	4-8	VS95	VS80	95 x 115 x 5.5	95 x 120 x 12
355	2	VS80	VS80	80 x 100 x 5.5	NA
	4-8	VS110	VS80	110 x 130 x 5.5	NA

机械设计

Mechanical design

轴承寿命

根据 ISO 281，轴承的正常寿命 L_{10h} 定义为在特定条件下 90% 的相同轴承在一系列测试中所达到或超过的运行小时数。50% 的轴承至少达到这一数字的五倍。

润滑

装有封闭式轴承的电机

机座号为 71-250 的电机采用封闭式轴承。封闭式轴承中装有优质的润滑脂。铭牌上印有轴承型号。

以下数值可作为轴承使用寿命指导值，具体寿命取决于应用和负载情况：2-8 极电机约为 40,000 小时。

皮带轮直径

所需轴承寿命确定后，最小允许皮带轮直径可使用 F_R 计算，如下所示：

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

其中：

D：	带轮直径，单位 (mm)
P：	功率要求，kW
n：	电机转速，r/min
K：	皮带张力因数，取决于皮带类型和负载类型。 V 形皮带通用值为 2.5。
F_R ：	允许径向力

Bearing life

The nominal life L_{10h} of a bearing is defined according to ISO 281 as the number of operating hours achieved or exceeded by 90% of identical bearings in a large test series under specified conditions. 50% of bearings achieve at least five times this lifetime.

Lubrication

Motors with bearings greased for life

Motors in frame sizes 71-250 are equipped with bearings greased for life. Bearings are lubricated with high-quality grease. Bearing types are stated on the rating plate.

The following values can be used as a guide for bearing lifetime, depending on application and load conditions: 2-8 pole motors about 40,000h.

Pulley diameter

When the desired bearing life has been determined, the minimum permissible pulley diameter can be calculated with F_R as follows:

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

Where:

D：	Pulley diameter, 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 of V-belts is 2.5
F_R ：	Permissible radial force

机械设计

Mechanical design

轴上允许负载

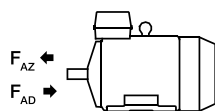
允许轴向力

表中提供了环境温度为 25°C 时，50Hz 的正常条件下，径向力为零时的轴伸允许轴向力（N）。分别对轴承寿命满足 20000 和 40000 小时进行计算。

在 60 Hz 时，数值将相应减少 10%。

需提供同时存在径向力和轴向力的允许负载值，请联系 ABB。

给定轴向力 F_{AD} ，假设 D 端轴承由锁环锁定。



安装方式 IM B3

机座号 Motor size	极数 No. of poles	轴伸长度 Length of shaft extension E (mm)	深沟球轴承 Basic design with deep groove ball bearings			
			20,000 小时 20,000 h		40,000 小时 40,000 h	
			F_{AD} (N)	F_{AZ} (N)	F_{AD} (N)	F_{AZ} (N)
71	2	30	580	300	465	185
	4	30	725	445	580	300
	6	30	810	530	670	390
	8	30	975	695	760	480
80	2	40	750	430	595	275
	4	40	940	620	750	430
	6	40	1055	735	870	550
	8	40	1280	960	995	675
90	2	50	845	445	675	275
	4	50	1050	650	840	440
	6	50	1175	775	935	535
	8	50	1310	910	1030	630
100	2	60	1175	615	940	380
	4	60	1465	905	1175	615
	6	60	1640	1080	1305	745
	8	60	1805	1245	1400	840
112	2	60	1175	615	935	375
	4	60	1460	900	1170	610
	6	60	1635	1075	1300	740
	8	60	1805	1245	1400	840
132	2	80	1675	795	1415	535
	4	80	2110	1230	1665	785
	6	80	2450	1570	1950	1070
	8	80	2695	1815	2090	1210
160	2	110	1665	1205	1300	840
	4	110	2135	1675	1650	1190
	6	110	2465	2005	1895	1435
	8	110	3090	2390	2350	1650
180	2	110	1730	1275	1345	890
	4	110	2215	1755	1705	1245
	6	110	2590	2130	1990	1530
	8	110	3195	2495	2420	1720

Permissible loading on the shaft

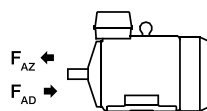
Permissible axial forces

The following table gives the permissible axial forces on shaft in Newton, assuming zero radial force, ambient temperature of 25°C, and normal conditions at 50Hz. The values are given for calculated bearing life of 20000 and 40000 hours per motor size.

At 60 Hz, the values must be reduced by 10 percent.

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

For axial force F_{AD} , it is assumed that the D-bearing is locked with a locking ring.



Mounting arrangement IM B3

机座号 Motor size	极数 No. of poles	轴伸长度 Length of shaft extension E (mm)	深沟球轴承 Basic design with deep groove ball bearings			
			20,000 小时 20,000 h		40,000 小时 40,000 h	
			F_{AD} (N)	F_{AZ} (N)	F_{AD} (N)	F_{AZ} (N)
200	2	110	2240	1780	1725	1265
	4	110	2900	2445	2215	1755
	6	110	3400	2945	2595	2135
	8	110	4200	3500	3125	2425
225	2	110	2440	2210	1845	1615
	4	140	3195	2965	2395	2170
	6	140	3745	3520	2810	2580
	8	140	4870	4070	3650	2850
250	2	140	2860	2620	2155	1920
	4	140	3765	3525	2825	2585
	6	140	4420	4180	3310	3070
	8	140	5595	4695	4165	3265
280	2	140	6060	4060	4530	2530
	4	140	7380	5380	6010	4010
	6	140	8850	6850	6710	4710
	8	140	10370	9370	7680	6680
315SM	2	140	6180	4180	4820	2820
	4	170	9370	7370	7170	5170
	6	170	10820	8820	8230	6230
	8	170	12390	10390	9440	7440
315ML	2	140	6120	4120	4760	2760
	4	170	9280	7280	7080	5080
	6	170	10700	8700	8110	6110
	8	170	12260	10260	9320	7320
355SM	2	140	5782	4070	4432	2720
	4	210	11372	9660	8572	6860
	6	210	13172	11460	9852	8140
	8	210	14755	13043	11145	9433

允许径向力

表中提供了环境温度为 25°C 时, 50Hz 的正常条件下, 轴向力为零时的轴伸允许径向力 (N)。分别对轴承寿命满足 20,000 小时和 40,000 小时进行计算。

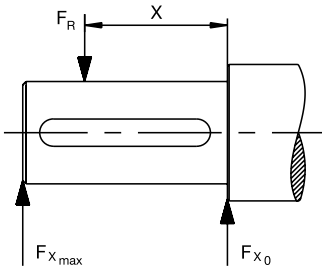
电机为底座安装型 IM B3, 并且含横向力。在某些情况下, 轴的强度影响允许负载力。在 60Hz 时, 数值将相应减少 10%。对于双速电机, 数值应以较高的速度为准。

需提供同时存在径向力和轴向力的允许负载值, 请联系 ABB。

如果径向力作用于点 X_0 和 $X_{\max}$ 之间, 则允许负载力 F_R 可以通过以下公式计算:

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

E : 基本型号中的轴伸长度



机座号 Motor size	极数 No. of poles	轴伸长度 Length of shaft extension E (mm)	轴伸长度 深沟球轴承 Basic design with deep groove ball bearings			
			20,000 小时 20,000 h	40,000 小时 40,000 h	20,000 小时 20,000 h	40,000 小时 40,000 h
			F_{X_0} (N)	$F_{X_{\max}}$ (N)	F_{X_0} (N)	$F_{X_{\max}}$ (N)
71	2	30	545	465	430	370
	4	30	685	585	545	465
	6	30	785	660	620	530
	8	30	860	735	675	575
80	2	40	740	620	585	490
	4	40	925	775	730	615
	6	40	1065	890	840	705
	8	40	1175	985	915	765
90s	2	50	795	645	625	510
	4	50	1000	815	790	645
	6	50	1145	935	905	740
90L	2	50	795	660	630	520
	4	50	1005	830	790	655
	6	50	1150	950	910	750
	8	50	1170	990	905	760
100	2	60	1110	895	875	705
	4	60	1395	1120	1100	885
	6	60	1605	1290	1265	1020
	8	60	1655	1335	1290	1035
112	2	60	1120	925	885	730
	4	60	1405	1160	1105	915
	6	60	1615	1335	1275	1050
	8	60	1695	1430	1315	1110
132S	2	80	1630	1270	1285	1000
	4	80	2055	1600	1620	1260
	6	80	2360	1840	1860	1450
	8	80	2460	1975	1905	1530
132M	4	80	2075	1665	1630	1310
	6	80	2375	1905	1865	1495
160	2	110	1945	1510	1545	1195
	4	110	2455	1905	1945	1510
	6	110	2835	2250	2245	1780
	8	110	2950	2290	2275	1765

Permissible radial forces

The following table gives the permissible radial forces on shaft in Newton, assuming zero axial force, ambient temperature of 25°C, and normal conditions at 50Hz. The values are given for calculated bearing life of 20,000 and 40,000 hours per motor size.

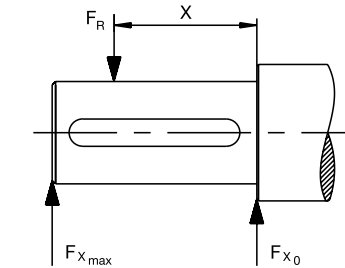
These calculated values further assume mounting position IM B3 (foot-mounted), with force directed sideways. In some cases, the strength of the shaft affects permissible forces.

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

If the radial force is applied between points X_0 and $X_{\max}$, the permissible force F_R can be calculated with the following formula:

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

E : Length of the shaft extension in the standard version



机座号 Motor size	极数 No. of poles	轴伸长度 Length of shaft extension E (mm)	轴伸长度 深沟球轴承 Basic design with deep groove ball bearings			
			20,000 小时 20,000 h	40,000 小时 40,000 h	20,000 小时 20,000 h	40,000 小时 40,000 h
			F_{X_0} (N)	$F_{X_{\max}}$ (N)	F_{X_0} (N)	$F_{X_{\max}}$ (N)
180	2	110	2095	1705	1660	1350
	4	110	2640	2145	2090	1700
	6	110	3025	2460	2395	1950
	8	110	3120	2590	2385	1980
200	2	110	2815	2310	2230	1830
	4	110	3550	2910	2810	2305
	6	110	4065	3335	3220	2640
	8	110	4185	3540	3155	2670
225	2	110	3335	2795	2640	2215
	4	140	4200	3370	3325	2670
	6	140	4810	3860	3805	3055
	8	140	4815	3865	3670	2945
250	2	140	3965	3220	3140	2550
	4	140	4995	4060	3955	3215
	6	140	5715	4645	4525	3675
	8	140	5595	4605	4230	3480
280	2	140	6590	5500	5100	4250
	4	140	8310	6930	6430	5360
	6	140	9460	7890	7310	6090
	8	140	10810	9010	8305	6920
315SM	2	140	6610	5630	5060	4310
	4	170	10390	8580	7980	6590
	6	170	11740	9690	8980	7420
	8	170	13080	10800	10005	8260
315ML	2	140	6540	5670	4970	4310
	4	170	10300	8690	7860	6630
	6	170	11610	9790	8810	7430
	8	170	12960	10930	9845	8305
355SM	2	140	6030	5280	4460	3910
	4	210	13240	10930	10030	8280
	6	210	14900	12310	11240	9280
	8	210	16435	13570	12500	10320

机械设计

Mechanical design

标准接线盒交付

标准接线盒的防护等级为 IP55。标准情况下，接线盒安装在电机 D 端顶部。此外，还可以将接线盒安装在左侧或右侧，请参考订购信息。机座号 71-132 的电机，采用一体式接线盒。机座号 160-355 的电机，采用分体式接线盒。

机座号为 160-355 的电机接线盒可 4x90°转动。因此电机的两侧都可以接入电缆。但对于机座号为 71-132 的标准电机，接线盒无法转动，如需实现接线盒电缆入口 2x180°转向，可使用变量代码（VC022）。

如果未另行规定，则采用标准交付。

注意：对于 500V 及 / 或侧面安装的电机，请联系 ABB！

Standard terminal box

The degree of protection for the standard terminal box is IP 55. By default, terminal boxes are mounted on top of the motor at D-end. In motor sizes 71-132, the terminal box is integrated in motor frame. In motor sizes 160-355, the terminal box is separate from motor frame.

The terminal boxes of motor sizes 160-355 can be turned 4x90°, to allow cable entry from either side of motor. For motor sizes 71-132, turning is not possible in the standard motor, but 2x180° turning is available as an option (variant code 022).

Standard delivery if no other information is provided.

Note: For other network voltages and/or side-mounted motors, contact your ABB sales office.

机座号 Motor size	极数 Pole number	螺纹孔 Threaded holes	电缆外径 mm Cable outer diameter mm	单芯横截面 平方毫米/相 Single core cross-section mm²/phase	端子螺栓尺寸 6x terminal bolt size 6x
71	2-8	2xM16x1.5	Ø5-9	2.5	M4
80-90	2-8	2xM25x1.5	Ø11-16	4	M4
100-132	2-8	2xM32x1.5	Ø14-21	10	M5
160-200	2-8	2xM40x1.5+M16x1.5	Ø19-27	35	M6
225-250	2-8	2xM63x1.5+M16x1.5	Ø34-45	70	M10
280	2-8	2xM63x1.5, 2xM20x1.5	2×Ø32-49, Ø8-14	2×150	M10
315	2-8	2xM63x1.5, 2xM20x1.5	2×Ø32-49, Ø8-14	2×240	M12
355	2-8	2xM75x1.5, 2xM20x1.5	2×Ø48-60, Ø8-14	4×240	M12

电机接地 Earthing	机座接地 Earthing on frame	主接线盒接地 Earthing in main terminal box
71-132	M5	M5
160-250	M6	M6
280-355	M10	M10

变频器驱动

Variable speed drives

鼠笼式感应电机具有很好的的可用性、可靠性与效率。通过变频器——一种变速驱动器（VSD），该电机的性能将更优异。电机不是一直处于全速运转状态，相反，变速驱动器能够根据实际需要调节速度。这样，就能够准确地控制工艺过程，在某些情况下，甚至可以达到比标称速度更快的运转速度，从而提高产能。

与传统的全压启动（DOL）不同，变速驱动器（VSD）能够平滑地进行启动。这样就大大地减少了电机及驱动应用中的压力。平滑启动还意味着供电网络不受高启动电流的影响。在电网设计时，应将该因素纳入考虑。

由于在速度和工艺用电方面的优化，ABB 低压一般用途电机以及变频器的使用，尤其是 ABB 变频器的使用，通常能够在很大程度上实现节能。节能不仅能够产生环境效益，还能够带来经济效益。ABB 低压一般用途电机适用于 DOL 运行，也适用于变速运行。选择面广，电机能够适应严苛的应用要求。

在为变速驱动器选择低压一般用途电机时，应考虑以下方面：

1. 确定规格

变频器所馈送的电压（或电流）并非完全是正弦的。这可能会增加电机的损耗、振动以及噪音等级。此外，这些损耗分布的变化可能影响电机的温升。因此，在任何情况下，需要根据特定的变频器说明书正确选择电机规格。

使用 ABB 变频器时，请使用 ABB 的 DriveSize 程序来确定电机规格。该工具利用的是基本综合性组合型式试验的规格确定规则。

当手动确定规格时，请注意，此目录中以及相关手册中给出的负载率（负载能力）曲线仅供参考。可根据要求提供针对各个电机和变频器的精确数值。除确定热容量外，必须保持一个转矩裕度，以保持稳定。电机的最大转矩在整个工作周期内应至少高于负载转矩 30%。

尤其是在使用较长的供电电缆时，还必须考虑供电电缆的压降。

Squirrel cage induction motors offer excellent availability, reliability and efficiency. With a variable speed drive (VSD) – a frequency converter – the motor performance can be further improved. Instead of running the motor continuously at full speed, the VSD enables speed adjustment according to actual need. The VSD makes it possible to control the process accurately and in some cases even to improve the capacity of the process by operating at higher than nominal speeds.

In contrast with conventional applications operating with a direct-on-line (DOL) supply, a VSD makes smooth starting possible. This significantly reduces the stress on the motor and driven application. Smooth starting also means that the supply network will not be affected by high starting current transients, a fact that can be taken into account in the design of the network.

The use of ABB industrial drives together with General performance motors usually provides substantial energy savings as the speed and therefore the power required by the process can be optimized. General performance motors are designed for both DOL and variable speed operation. A wide range of options is available, so motors can be adapted to the demanding applications.

When selecting general performance motors for VSDs, the following points must be taken into consideration.

1. Dimensioning

The voltage (or current) fed by the VSD is not purely sinusoidal. This may increase motor losses, vibration, and noise level. Further, a change in the distribution of losses may affect the motor's temperature rise. In each case, the motor must be correctly sized according to the instructions supplied for the frequency converter.

ABB's DriveSize program utilizes dimensioning rules that are based on comprehensive motor and drive type tests. Please use DriveSize for selecting the correct motor and drive combination for a desired load profile.

In case of manual dimensioning, note that the loadability (or load capacity) curves provided in this catalog and in the respective manuals are indicative only. Values for a specific motor and drive are available on request. In addition to thermal dimensioning, an adequate torque margin must be maintained for stability. The maximum torque of the motor must be at least 30 % higher than the load torque over the whole duty range.

Voltage drop in the supply cable must also be taken into consideration, especially in cases where long supply cables are needed.

变频器驱动

Variable speed drives

2. 工作转速、振动及轴密封

低压一般用途电机设计可以在宽转速范围下工作，在大多数情况下，也可以显著高于额定转速（即铭牌上印制的转速）的较高转速运行可以通过铭牌或 DriveSize 工具获知最大转速。除电机转速范围外，请确保不超出整个应用的最大或临界转速。

下表 1 给出了低压一般用途电机的最大规定转速值。

表 1 低压一般用途电机的最大规定转速值

机座号	转速 r/min	
	2 极	4 极
71-80	6000	4500
90-100	6000	6000
112-200	4500	4500
225-250	3600	3600
280	3600	2600
315	3600	2300
355 SM	3600	2000

3. 通风

电机低速运行时，风扇的冷却能力下降，进面降低电机的负载能力。可以另外使用一个独立的恒速风扇(变量代码 183)来提升冷却能力。

高速运行时，应考虑使用金属风扇在（变量代码 068），而不是塑料风扇。

4. 润滑

在变速应用场合中，轴承温度的变化是由于速度和电机负载变化的结果。这时，在正常工作条件下，通过测量轴承温度，可以得到精确的润滑间隔时间。如果测量温度高于 +80°C，则需要缩短在润滑铭牌或电机手册中规定的润滑间隔时间，或使用适用于高温工况的润滑脂。请参见 ABB 低压电机手册。

在非常低的速度和温度（低于 20°C）下连续工作时，标准润滑脂的润滑能力可能不足，而需要使用含添加剂的特定润滑脂。更多详情，请联系 ABB。

2. Operating speed, vibrations and shaft seals

General performance motors are designed to work over a wide speed range and also at significantly higher than nominal speeds. The maximum speeds can be found on motor rating plates or in DriveSize. In addition to motor speed, make sure that the maximum or critical speed of the entire application is not exceeded.

Guideline maximum speed values for general performance motors are shown in Table 1.

Table 1. Guideline maximum speed values for general performance cast iron motors.

Motor size	Maximum speed, r/min	
	2-pole motors	4-pole motors
71-80	6000	4500
90-100	6000	6000
112-200	4500	4500
225-250	3600	3600
280	3600	2600
315	3600	2300
355 SM	3600	2000

3. Ventilation

When the motor is operated at low speeds, the cooling capacity of the fan decreases, which again reduces the motor's load capacity. A separate constant speed fan (variant codes 183) can be used to increase cooling capacity.

At high speeds, the use of metal fans (variant code 068) instead of plastic ones should be considered.

4. Lubrication

In variable speed applications, bearing temperature varies as a function of speed and motor load. In such cases, the accurate relubrication intervals can be obtained by measuring the bearing temperature under normal operating conditions. If the measured temperature is higher than +80°C , the relubrication intervals specified on the lubrication plate or in the maintenance manual must be shortened, or lubricants suitable for high operating temperatures must be used. See ABB Low voltage motor manual.

In case of continuous operation at very low speeds and at very low temperatures (below -20°C), the lubrication properties of standard greases may not be sufficient, and special greases with additives are needed.

变频器驱动

Variable speed drives

如果电机配备密封轴承，即一次性润滑轴承，则务必注意，当工作温度与设计温度不同时，轴承的工作寿命也会与设计值不同。有关轴承工作寿命的详细信息，请参见本目录及相关手册中与产品相关的章节。

我们不建议使用所谓的导电润滑脂来消除轴承电流，因为此类产品的润滑性能不良，因此导电性很弱。

5. 绕组绝缘

为确保电机的可靠性，当为电机选择正确的绝缘系统和为变频器选择正确的输出滤波器时，必须考虑变频器的非正弦输出电压的影响。

当使用具有非受控直流电压的变频器时，应根据表 2 选择绝缘和滤波器。

表 2 变频器（其具有非受控直流电压）电机的绕组绝缘及变频器输出滤波器选择

所要求的绕组绝缘和滤波器	
$500V < U_N \leq 600V$	ABB 变频绝缘 +dU/dt 滤波器或 ABB 变频加强绝缘（变量代码 405）
$600V < U_N \leq 690V$	ABB 变频加强绝缘（变量代码 405） 及变频器输出端的 dU/dt 滤波器

dU/dt 滤波器的详细信息，请参见相关的 ABB 驱动目录。

如果表 2 中的内容不适用，以及对于其它类型的变频器，则应根据电机端子电压进行选择。

电机端子处允许的相对地电压峰值为：

- ABB 变频绝缘 1300V
- ABB 变频加强绝缘（变量代码 405）1800V

受脉冲上升时间的影响，电机端子处允许的最大相对地电压峰值见图 1。最高的曲线（即“ABB 变频加强绝缘”）适用于变频器电源采用特殊绕组绝缘的电机，变量代码为 405。“ABB 变频绝缘”适用于具有标准设计的电机。

Operating temperatures also affect bearing life. When motors are equipped with sealed bearings, that is, bearings greased for life, it must be noted that if the operating temperature differs from the design temperature, the bearing life will also be different. More information on bearing lifetimes can be found in section Mechanical design of this catalog and in the relevant manuals.

The use of so-called conductive greases for elimination of bearing currents is not recommended because of their poor lubrication characteristics and low conductivity.

5. Winding insulation

To ensure that motors operate reliably, the effects of non-sinusoidal output voltages from the converter must be taken into consideration when selecting the correct insulation system for the motor and output filters for the converter.

Insulation and filters must be selected according to Table 2.

Table 2. Selection of motor winding insulation and converter output filters

Winding insulation and filters required	
$500V < U_N \leq 600V$	VSD insulation + dU/dt filters OR VSD reinforced insulation (variant code 405)
$600V < U_N \leq 690V$	VSD reinforced insulation (variant code 405) AND dU/dt filters at converter output

For more information on dU/dt filters, see the relevant ABB Drives catalogs.

For other converters and cases where the guidelines shown in Table 2 cannot be applied, selection must be based on the voltages present at motor terminals.

The allowed phase-to-ground voltage peaks at motor terminals:

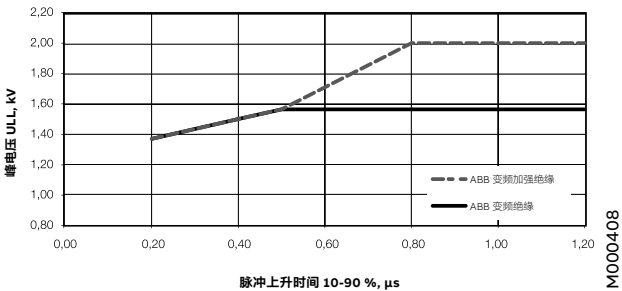
- 1300 V peak: VSD insulation
- 1800 V peak: VSD reinforced insulation, variant code 405

The maximum allowed phase-to-phase voltage peaks at the motor terminals as a function of pulse rise time are shown in Figure 1. The higher curve, VSD reinforced insulation, applies to motors with special winding insulation for frequency converter supply, variant code 405. VSD insulation applies to motors with standard design.

变频器驱动

Variable speed drives

图 1 受脉冲上升时间的影响，电机端子处允许的最大相对地电压峰值



6. 轴承电流

必须在所有电机中消除轴承电压和电流,确保整项工作的可靠开展。如果使用具有非受控直流电压的 ABB ACS800 or ACS550 驱动器,则必须按照下表 3 所示,使用绝缘轴承(变量代码 701)和 / 或在变频器输出上加上适当规格的滤波器。有关其它代替产品和变频器类型,请联系 ABB。订购时,请明确注明将使用的代替产品。

有关轴承电流和电压的详细资料,请参见“AC 驱动系统中的轴承电流”工厂文件或联系 ABB。

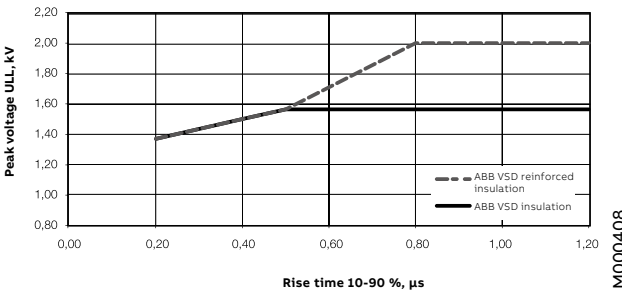
表 3 与变频器(其具有非受控直流电压)配合使用的电机中的轴承电流防护。

标称功率 (P _N) 及 / 或机座号 (IEC)	防护措施
P _N ≤ 100 kW	无需采取措施
P _N ≥ 100 kW 或 IEC 315 ≤ 机座号 ≤ IEC 355	非驱动端绝缘轴承
P _N ≥ 350 kW	非驱动端绝缘轴承, 关在变频器中设置共模滤波器

共模滤波器

共模滤波器减少了共模电流,从而减少了出现轴承电流的风险。共模滤波器不会严重影响电机接线端子的相电压或电源电压。更多详情,请参见 ABB 驱动器目录。

Figure 1. Maximum allowed phase-to-phase voltage peaks at motor terminals, as a function pulse rise time.



6. Bearing currents

Bearing voltages and currents must be avoided in all motors to ensure reliable operation of the entire application. With ACS800 or ACS550 drives and uncontrolled DC voltage, insulated bearings (variant code 701) and/or properly dimensioned filters at the converter must be used, as indicated in Table 3.

For information on other converter types, contact ABB Sales. When ordering, clearly state which alternative will be used.

Table 3. Precautionary measures to avoid bearing currents in variable speed drives.

Nominal Output (P _N) AND / OR Motor size (IEC)	Precautionary measures
P _N ≤ 100 kW	No action needed
P _N ≥ 100 kW OR IEC 315 ≤ Frame size ≤ IEC 355	Insulated non-drive end bearing
P _N ≥ 350 kW	Insulated non-drive end bearing AND Common mode filter at the converter

Common mode filters

Common mode filters reduce common mode currents and so decrease the risk of bearing currents. Common mode filters do not significantly affect the phase of main voltages on motor terminals. For more information, see ABB drives catalogs.

变频器驱动

Variable speed drives

绝缘轴承

ABB 使用带绝缘内圈或外圈的轴承。所谓混合轴承，也就是带非导电性陶瓷滚动元件的轴承，也可用于特定用途。

Insulated bearings

ABB uses bearings with insulated inner or outer races. Hybrid bearings, that is, bearings with non-conductive ceramic rolling elements, can also be used in special applications.

7. 电缆敷设、接地及 EMC

变频器对驱动系统的电缆铺设和接地提出了更高的要求。应使用屏蔽对称电缆和提供 360°接头的电缆接头（也称为 EMC 接头，变量代码 704）来连接电机。对于输出功率不高于 30kW 的电机，可使用非对称电缆，但始终建议使用屏蔽电缆，尤其在驱动应用中存在敏感部件时。

7. Cabling, grounding, and EMC

The use of a variable speed drive sets higher demands on the cabling and grounding of the drive system. The motor must be cabled using shielded symmetrical cables and cable glands providing 360° bonding (EMC glands, variant code 704). For motors up to 30 kW, asymmetrical cables can be used, but shielded cables are always recommended, especially if there are sensitive components in the driven application.

对于机座号为 IEC 280 及以上的电机，除非在一个公共的金属底座上安装电机和驱动机器，否则需要在电机机座和机器之间另外进行电位均衡处理。当使用一个金属底座来实现电位均衡时，应检查此连接的高频导电性。有关变速驱动器的接地和电缆敷设的更多信息，请参见手册“驱动系统的接地和电缆敷设”（编号：3AFY 61201998 R0125 REV B）。

For motor sizes IEC 280 and above, additional potential equalization is needed between the motor frame and the machinery, unless the motor and the driven machine are installed on a common steel base. When a steel base is used for potential equalization, high frequency conductivity of the connection must be checked.

为满足 EMC 的要求，除安装正确的电缆接头外，还必须使用专用的 EMC 电缆（另外具有专用接地件）。请参见变频器手册。

To meet EMC requirements, special EMC cables must be used in addition to appropriate cable gland mounting with special earthing pieces. Refer to ABB drives manuals for more information.

8. 变频器的电机负载能力

图 2、图 3 所示的负载能力曲线具有指导意义。欲知精确数值，请联系 ABB。这些负载能力曲线还可以用于其它变频器的初步规格确定，但必须注意的是，不同变频器的谐波分量和控制算法互不相同，因此电机的温升也会不同。

8. Motor loadability with frequency converter drives

The loadability curves shown in Figures 2 and 3 are indicative guidelines and do not present exact values. These loadability curves can also be used for preliminary dimensioning of motors used at frequency converter duty, but it must be noted that the harmonic content and control algorithms vary between frequency converters, so the motor temperature rise will also be different.

变频器驱动

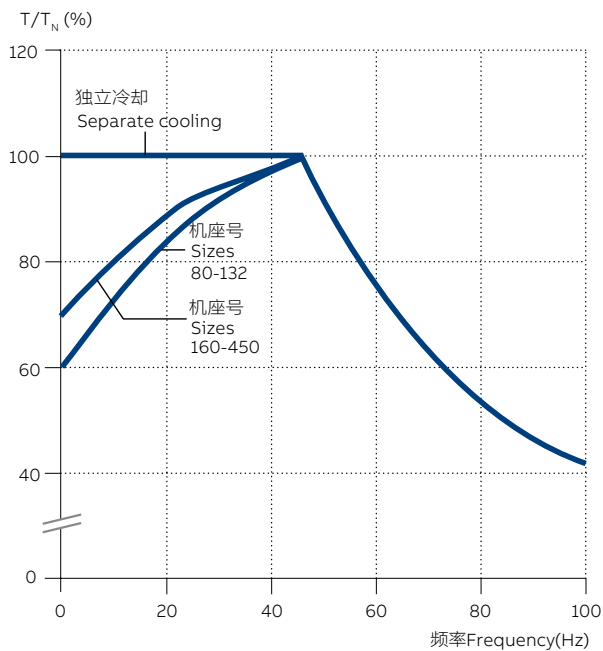
Variable speed drives

图 2 具有 DTC 控制的变频器负载曲线

Figure 2. Loadability curves for frequency converters with DTC control

B 级温升

Temperature rise B



F 级温升

Temperature rise F

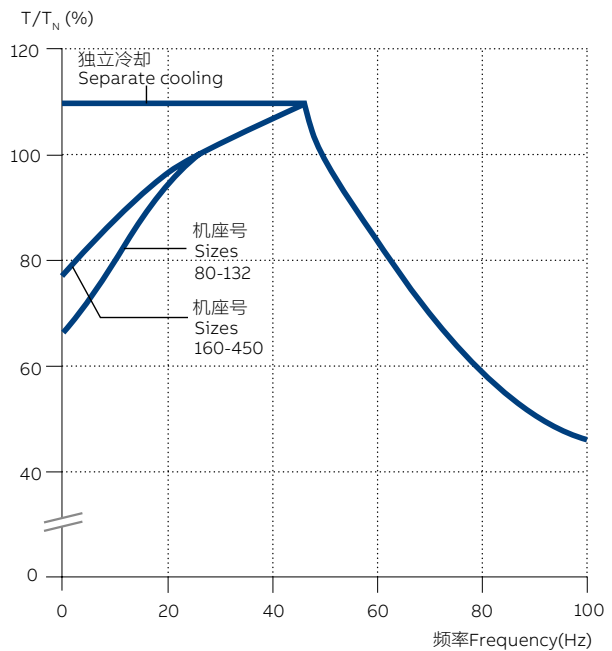
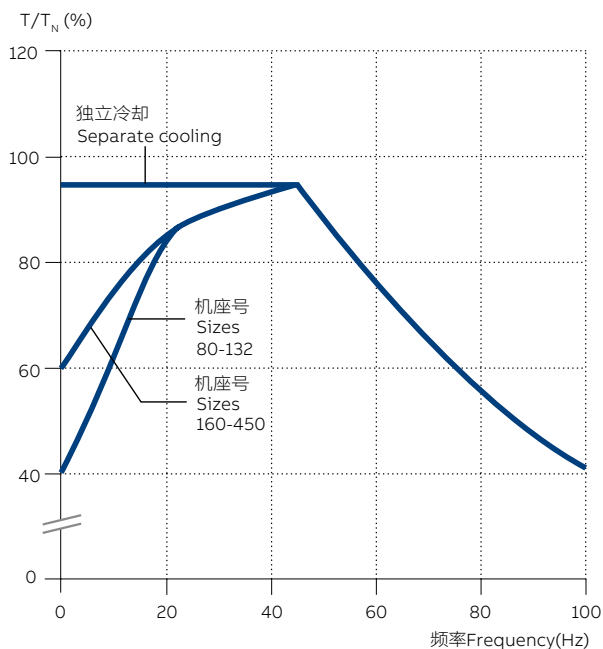


图 3 其它控制类型的变频器负载曲线

Figure 3. Loadability curves for other frequency converters

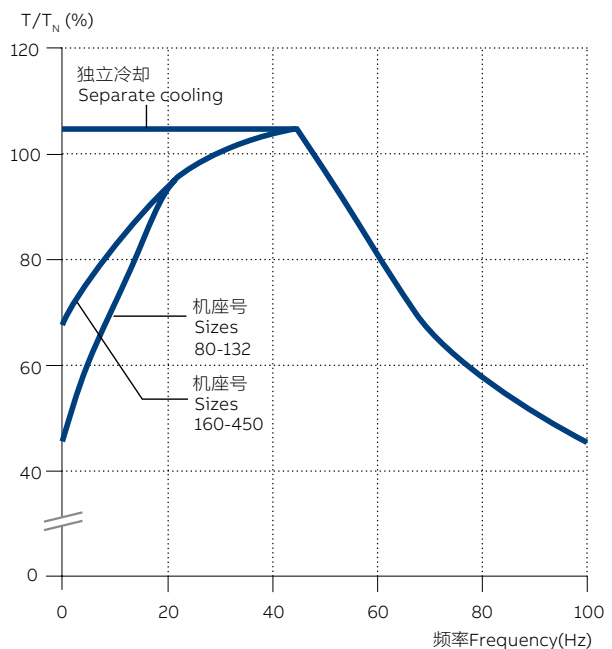
B 级温升

Temperature rise B



F 级温升

Temperature rise F



技术数据

Technical data

IE2

2P 380V 50Hz

三相全封闭鼠笼式电机的技术数据

Technical data for totally enclosed squirrel cage three phase motors

IP55 - IC411 绝缘等级 F, 温升等级 B

0.18-0.55kW, 符合 GB 25958-2010 的 3 级能效, 符合 IEC 60034-30-1:2014 的 IE2 效率等级

0.75-355kW, 符合 GB 18613-2012 的 3 级能效, 符合 IEC 60034-30-1:2014 的 IE2 效率等级

IP55 - IC411 Insulation class F, temperature class B

0.18-0.55kW, Grade 3 according to GB 25958-2010, IE2 according to IEC 60034-30-1:2014

0.75-355kW, Grade 3 according to GB 18613-2012, IE2 according to IEC 60034-30-1:2014

输出 Output	电机型号 Motor type	产品代码 Product code	转速 Speed	效率 / Efficiency IEC 60034-30-1:2014			功率 因数 Power factor	电流 Current			转矩 / Torque			转动惯量 Moment of inertia	重量 Weight	声压等级 Sound pressure level, L _{PA}
				满载 load 100%	3/4 负载 load 75%	1/2 负载 load 50%		I _N A	I _s /I _N	T _N Nm	T _l / T _N	T _B / T _N	J=1/4 GD ² kgm ²			
kW			r/min				cosφ							kg		dB
3000 r/min = 2 极 / 2 poles			380 V 50Hz			CENELEC- 设计 design										
0.37	M2BAX 71 MA	3GBA071310--CCN	2769	69.5	68.9	65.8	0.83	0.92	4.9	1.26	2.5	3.0	0.00033	9	56	
0.55	M2BAX 71 MB	3GBA071320--CCN	2790	74.1	73.8	71.5	0.82	1.31	5.2	1.86	2.8	3.2	0.00041	10	58	
0.75	M2BAX 80 MA	3GBA081310--CCN	2815	77.4	77.5	76.1	0.85	1.73	5.7	2.51	2.6	3.7	0.00067	14	63	
1.1	M2BAX 80 MB	3GBA081320--CCN	2819	79.6	80.2	79.3	0.86	2.50	5.6	3.67	2.8	3.4	0.00090	15	62	
1.5	M2BAX 90 SA	3GBA091110--CCN	2875	81.3	80.6	78.5	0.83	3.36	6.7	4.93	2.8	3.5	0.00210	21	66	
2.2	M2BAX 90 LA	3GBA091510--CCN	2881	83.2	83.6	82.9	0.87	4.58	7.1	7.25	2.8	3.4	0.00270	24	67	
3	M2BAX 100 LA	3GBA101510--CCN	2910	84.6	84.2	82.5	0.88	6.15	8.3	9.81	3.7	4.5	0.00480	32	74	
4	M2BAX 112 MA	3GBA111310--CCN	2902	85.8	85.7	84.3	0.89	8.04	8.5	13.1	3.7	4.2	0.00561	36	74	
5.5	M2BAX 132 SA	3GBA131110--CCN	2908	87.0	86.4	84.7	0.87	11.1	7.6	18.0	2.3	3.8	0.0117	56	74	
7.5	M2BAX 132 SB	3GBA131120--CCN	2905	88.1	87.7	86.7	0.87	14.9	8.1	24.6	2.8	4.0	0.0132	60	72	
11	M2BAX 160 MLA	3GBA161410--CCN	2919	89.4	89.9	89.6	0.88	21.3	6.2	35.9	2.2	3.1	0.0410	103	72	
15	M2BAX 160 MLB	3GBA161420--CCN	2929	90.3	90.7	90.5	0.90	28.0	7.0	48.9	2.7	3.1	0.0538	116	72	
18.5	M2BAX 160 MLC	3GBA161430--CCN	2932	90.9	91.2	91.1	0.89	34.4	7.9	60.1	2.8	3.4	0.0600	124	73	
22	M2BAX 180 MLA	3GBA181410--CCN	2935	91.3	91.7	91.6	0.89	40.8	7.8	71.5	3.4	3.5	0.0735	151	72	
30	M2BAX 200 MLA	3GBA201410--CCN	2952	92.0	91.7	90.9	0.88	56.7	8.1	97.1	3.5	3.8	0.110	198	81	
37	M2BAX 200 MLB	3GBA201420--CCN	2943	92.5	92.8	92.6	0.91	67.0	7.2	120	3.3	3.4	0.141	229	80	
45	M2BAX 225 SMA	3GBA221210--CCN	2955	92.9	93.1	92.7	0.88	83.2	8.2	146	3.4	3.4	0.226	275	82	
55	M2BAX 250 SMA	3GBA251210--CCN	2958	93.2	93.5	93.4	0.89	99.9	7.4	177	3.1	2.7	0.344	335	78	
75	M2BAX 280 SMD	3GBA281240--HCN	2966	93.8	94.3	94.4	0.90	135	7.1	241	2.4	3.0	0.600	527	78	
90	M2BAX 280 SME	3GBA281250--HCN	2965	94.7	94.5	94.6	0.91	159	7.2	290	2.7	3.0	0.700	576	75	
110	M2BAX 315 SMA	3GBA311210--CCN	2981	94.3	93.8	92.4	0.86	206	6.8	352	2.0	2.9	1.2	767	78	
132	M2BAX 315 SMB	3GBA311220--CCN	2979	94.6	94.3	93.2	0.87	243	6.9	423	2.1	2.8	1.4	827	78	
160	M2BAX 315 SMC	3GBA311230--CCN	2979	94.8	94.8	93.9	0.88	289	7.0	513	2.3	2.7	1.7	917	78	
200	M2BAX 315 MLA	3GBA311410--CCN	2978	95.0	94.8	94.1	0.89	358	7.1	641	2.6	2.6	2.1	1037	83	
110	M2BAX 315SMA 2	3GBA311210--HCN	2976	94.3	94.3	93.4	0.9	197	6.9	353	2.2	2.8	0.95	790	78	
132	M2BAX 315SMB 2	3GBA311220--HCN	2974	94.6	94.7	94	0.9	235	6.9	424	2.4	2.8	1.4	840	78	
160	M2BAX 315SMC 2	3GBA311230--HCN	2973	94.8	95	94.5	0.92	279	7.9	514	2.1	2.7	1.7	900	78	
250	M2BAX 355 SMA	3GBA351210--CCN	2981	95.0	94.8	94.0	0.90	445	6.2	800	1.4	2.5	2.7	1329	83	
315	M2BAX 355 SMB	3GBA351220--CCN	2978	95.0	95.0	94.3	0.89	563	6.5	1009	1.7	2.5	3.4	1469	83	
355 ¹⁾	M2BAX 355 SMC	3GBA351230--CCN	2981	95.0	95.1	94.6	0.89	635	6.8	1136	1.9	2.4	3.6	1539	83	

¹⁾ 温升等级 F ¹⁾ temperature rise class F

产品代码中的两个圆点表示可选的安装方式、电压及频率代码（见订购信息一页）。

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I_s / I_N = 启动电流
T_l / T_N = 转子堵转转矩
T_B / T_N = 最大转矩

I_s / I_N = Starting current
T_l / T_N = Locked rotor torque
T_B / T_N = Breakdown torque

技术数据

Technical data

IE2

2P 400V 50Hz

三相全封闭鼠笼式电机的技术数据

Technical data for totally enclosed squirrel cage three phase motors

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0.18-0.55kW, 符合 GB 25958-2010 的 3 级能效, 符合 IEC 60034-30-1:2014 的 IE2 效率等级

0.75-355kW, 符合 GB 18613-2012 的 3 级能效, 符合 IEC 60034-30-1:2014 的 IE2 效率等级

IP55 - IC411 Insulation class F, temperature class B

0.18-0.55kW, Grade 3 according to GB 25958-2010, IE2 according to IEC 60034-30-1:2014

0.75-355kW, Grade 3 according to GB 18613-2012, IE2 according to IEC 60034-30-1:2014

输出 Output	电机型号 Motor type	产品代码 Product code	转速 Speed	效率 / Efficiency IEC 60034-30-1:2014			功率 因数 Power factor	电流 Current			转矩 / Torque			转动惯量 Moment of inertia	重量 Weight	声压等级 Sound pressure level, L _{PA}
				满载 load 100%	3/4 负载 load 75%	1/2 负载 load 50%		I _N A	I _s /I _N	T _N Nm	T _i / T _N	T _b / T _N	J=1/4 GD ² kgm ²			
kW			r/min				cosφ							kg		dB
3000 r/min = 2 极 / 2 poles			400 V 50Hz			CENELEC- 设计 design										
0.37	M2BAX 71 MA	3GBA071310--CCN	2807	69.5	66.9	62.3	0.79	0.91	5.1	1.26	2.8	3.4	0.00033	9	56	
0.55	M2BAX 71 MB	3GBA071320--CCN	2820	74.1	72.4	68.5	0.78	1.31	5.5	1.86	3.2	3.6	0.00041	10	58	
0.75	M2BAX 80 MA	3GBA081310--CCN	2838	77.4	76.7	74.3	0.82	1.70	5.7	2.51	2.8	4.2	0.00067	14	63	
1.1	M2BAX 80 MB	3GBA081320--CCN	2845	79.6	79.3	77.6	0.83	2.44	6.2	3.67	3.2	3.8	0.00090	15	62	
1.5	M2BAX 90 SA	3GBA091110--CCN	2889	81.3	80.0	76.8	0.79	3.37	7.1	4.93	3.1	3.9	0.00210	21	66	
2.2	M2BAX 90 LA	3GBA091510--CCN	2907	83.2	82.9	81.2	0.84	4.48	7.7	7.25	3.1	3.8	0.00270	24	67	
3	M2BAX 100 LA	3GBA101510--CCN	2919	84.6	83.6	81.2	0.85	6.08	8.7	9.81	4.2	5.0	0.00480	32	74	
4	M2BAX 112 MA	3GBA111310--CCN	2916	85.8	85.3	83.1	0.86	7.89	9.1	13.1	4.1	4.7	0.00561	36	74	
5.5	M2BAX 132 SA	3GBA131110--CCN	2921	87.0	86.0	83.7	0.85	10.8	8.3	18.0	2.6	4.3	0.0117	56	74	
7.5	M2BAX 132 SB	3GBA131120--CCN	2916	88.1	87.5	85.8	0.84	14.5	8.7	24.6	3.1	4.5	0.0132	60	72	
11	M2BAX 160 MLA	3GBA161410--CCN	2931	89.4	89.4	88.4	0.86	20.7	6.6	35.9	2.5	3.5	0.0410	103	72	
15	M2BAX 160 MLB	3GBA161420--CCN	2938	90.3	90.5	89.7	0.88	27.0	7.6	48.9	3.1	3.5	0.0538	116	72	
18.5	M2BAX 160 MLC	3GBA161430--CCN	2939	90.9	91.0	90.2	0.87	33.4	7.9	60.1	3.1	3.8	0.0600	124	73	
22	M2BAX 180 MLA	3GBA181410--CCN	2943	91.3	91.6	90.9	0.87	39.5	8.6	71.4	3.7	3.9	0.0735	151	72	
30	M2BAX 200 MLA	3GBA201410--CCN	2957	92.0	91.5	90.1	0.85	55.8	8.6	97.1	4.0	4.2	0.110	198	81	
37	M2BAX 200 MLB	3GBA201420--CCN	2951	92.5	92.5	92.2	0.90	64.2	7.9	120	3.6	3.7	0.141	229	80	
45	M2BAX 225 SMA	3GBA221210--CCN	2962	92.9	92.8	92.1	0.86	80.6	8.8	145	3.8	3.8	0.226	275	82	
55	M2BAX 250 SMA	3GBA251210--CCN	2965	93.2	93.1	92.4	0.87	96.4	7.4	177	3.4	3.0	0.344	335	78	
75	M2BAX 280 SMD	3GBA281240--HCN	2971	93.8	94.0	93.9	0.89	129	7.7	241	2.7	3.3	0.600	527	78	
90	M2BAX 280 SME	3GBA281250--HCN	2970	94.7	94.3	94.2	0.91	152	8.0	289	3.1	3.3	0.700	576	76	
110	M2BAX 315 SMA	3GBA311210--CCN	2981	94.3	93.8	92.5	0.84	199	7.7	352	2.1	3.2	1.2	767	78	
132	M2BAX 315 SMB	3GBA311220--CCN	2978	94.6	94.2	93.2	0.86	233	7.8	423	2.4	3.9	1.4	827	78	
160	M2BAX 315 SMC	3GBA311230--CCN	2981	94.8	94.6	93.8	0.88	274	7.5	513	2.2	3.7	1.7	917	78	
200	M2BAX 315 MLA	3GBA311410--CCN	2979	95.0	94.8	93.9	0.89	341	7.2	641	2.4	3.6	2.1	1037	83	
110	M2BAX 315SMA 2	3GBA311210--HCN	2979	94.3	94.2	93.1	0.9	187	7.6	353	2.5	3.2	0.95	790	78	
132	M2BAX 315SMB 2	3GBA311220--HCN	2977	94.6	94.6	93.7	0.9	224	7.7	423	2.7	3.1	1.4	840	78	
160	M2BAX 315SMC 2	3GBA311230--HCN	2976	94.8	95	94.4	0.9	269	7.7	513	2.8	3	1.7	900	78	
250	M2BAX 355 SMA	3GBA351210--CCN	2983	95.0	94.7	93.7	0.89	428	6.7	800	1.5	2.8	2.7	1329	83	
315	M2BAX 355 SMB	3GBA351220--CCN	2980	95.0	95.0	94.2	0.89	537	7.2	1009	1.9	2.8	3.4	1469	83	
355 ¹⁾	M2BAX 355 SMC	3GBA351230--CCN	2983	95.0	95.0	94.3	0.88	609	7.4	1136	2.1	2.7	3.6	1539	83	

¹⁾ 温升等级 F ¹⁾ temperature rise class F

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I_s / I_N = 启动电流
T_i / T_N = 转子堵转转矩
T_b / T_N = 最大转矩

I_s / I_N = Starting current
T_i / T_N = Locked rotor torque
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技术数据

Technical data

IE2

4P 380V 50Hz

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IP55 - IC411 Insulation class F, temperature class B

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0.75-355kW, Grade 3 according to GB 18613-2012, IE2 according to IEC 60034-30-1:2014

输出 Output	电机型号 Motor type	产品代码 Product code	转速 Speed	效率 / Efficiency IEC 60034-30-1:2014			功率 因数 Power factor	电流 Current			转矩 / Torque			转动惯量 Moment of inertia	重量 Weight	声压等级 Sound pressure level, L _{PA}
				满载 load 100%	3/4 负载 load 75%	1/2 负载 load 50%		I _N A	I _s /I _N	T _N Nm	T _l / T _N	T _b / T _N	J=1/4 GD ² kgm ²			
kW			r/min				cosφ							kg		dB
1500 r/min = 4 极 / 4 poles			380 V 50Hz			CENELEC- 设计 design										
0.25	M2BAX 71 MA	3GBA072310--CCN	1412	68.5	66.5	61.0	0.74	0.73	4.6	1.69	1.9	2.7	0.00059	9	49	
0.37	M2BAX 71 MB	3GBA072320--CCN	1408	72.7	71.3	67.0	0.73	1.07	4.9	2.52	2.3	2.8	0.00076	10	46	
0.55	M2BAX 80 MA	3GBA082310--CCN	1429	77.1	76.6	74.0	0.78	1.40	5.7	3.69	2.2	2.7	0.00205	15	54	
0.75	M2BAX 80 MB	3GBA082320--CCN	1438	79.6	79.5	76.4	0.74	1.97	6.4	4.97	3.4	3.5	0.00250	18	53	
1.1	M2BAX 90 SA	3GBA092110--CCN	1440	81.4	80.4	77.3	0.76	2.70	6.3	7.35	3.5	3.8	0.00370	22	51	
1.5	M2BAX 90 LA	3GBA092510--CCN	1435	82.8	83.8	83.1	0.77	3.55	6.6	10.0	3.3	3.8	0.00460	24	55	
2.2	M2BAX 100 LA	3GBA102510--CCN	1439	84.3	84.2	82.9	0.81	4.94	7.0	14.5	2.9	3.5	0.00759	31	55	
3	M2BAX 100 LB	3GBA102520--CCN	1436	85.5	85.7	84.6	0.81	6.60	7.2	19.8	3.4	3.8	0.00939	35	58	
4	M2BAX 112 MA	3GBA112310--CCN	1433	86.6	87.0	86.1	0.82	8.64	7.1	26.5	3.6	3.9	0.0120	41	56	
5.5	M2BAX 132 SA	3GBA132110--CCN	1451	87.7	87.8	87.1	0.80	12.0	6.4	36.0	2.2	3.0	0.0257	59	65	
7.5	M2BAX 132 MA	3GBA132310--CCN	1453	88.7	88.9	88.6	0.80	16.2	6.8	49.1	2.3	3.2	0.0320	70	67	
11	M2BAX 160 MLA	3GBA162410--CCN	1461	89.8	90.2	90.0	0.81	23.2	7.0	71.5	2.9	2.9	0.0780	111	67	
15	M2BAX 160 MLB	3GBA162420--CCN	1463	90.6	91.0	90.9	0.83	30.3	7.4	97.7	2.9	3.3	0.1000	126	66	
18.5	M2BAX 180 MLA	3GBA182410--CCN	1467	91.2	91.5	91.2	0.82	37.5	7.9	121	3.3	3.7	0.1200	156	65	
22	M2BAX 180 MLB	3GBA182420--CCN	1468	91.6	91.7	91.1	0.81	45.2	8.7	143	3.7	4.1	0.139	169	66	
30	M2BAX 200 MLA	3GBA202410--CCN	1471	92.3	92.7	92.9	0.83	59.8	6.5	194	2.7	2.8	0.236	222	68	
37	M2BAX 225 SMA	3GBA222210--CCN	1476	92.7	93.0	93.0	0.84	72.3	6.9	239	2.8	2.9	0.350	265	69	
45	M2BAX 225 SMB	3GBA222220--CCN	1480	93.1	93.4	93.0	0.83	88.0	7.5	291	3.0	3.1	0.416	292	69	
55	M2BAX 250 SMA	3GBA252210--CCN	1478	93.5	93.8	93.4	0.85	106	7.1	356	2.9	2.9	0.533	340	77	
75	M2BAX 280 SMD	3GBA282240--HCN	1476	94.0	94.3	93.9	0.85	142	7.8	485	2.8	3.1	0.900	520	70	
90	M2BAX 280 SME	3GBA282250--HCN	1476	94.2	94.8	94.7	0.87	167	7.8	582	2.9	3.1	1.1	583	70	
110	M2BAX 315 SMA	3GBA312210--CCN	1487	94.5	94.5	93.7	0.86	205	6.3	706	2.1	2.6	2.3	792	78	
132	M2BAX 315 SMB	3GBA312220--CCN	1486	94.7	94.8	94.2	0.87	245	6.4	847	2.0	2.4	2.6	847	78	
160	M2BAX 315 SMC	3GBA312230--CCN	1485	94.9	95.1	94.5	0.86	298	6.6	1027	2.1	2.6	2.9	887	78	
200	M2BAX 315 MLA	3GBA312410--CCN	1484	95.1	95.3	94.9	0.87	369	6.4	1286	2.1	2.5	3.5	1012	78	
110	M2BAX 315SMA 4	3GBA312210--HCN	1483	94.5	94.9	94.7	0.88	201	7.6	708	2.4	2.6	2.3	750	68	
132	M2BAX 315SMB 4	3GBA312220--HCN	1482	94.7	95.1	95	0.9	235	7.6	851	2.6	2.6	2.6	855	68	
160	M2BAX 315SMC 4	3GBA312230--HCN	1482	94.9	95.3	95	0.87	294	6.9	1031	3	2.8	2.9	900	68	
250	M2BAX 355 SMA	3GBA352210--CCN	1487	95.1	95.2	94.4	0.86	464	6.0	1605	1.8	2.3	5.4	1419	82	
315	M2BAX 355 SMB	3GBA352220--CCN	1487	95.1	95.2	94.6	0.86	583	6.7	2021	2.0	2.4	6.9	1589	82	
355	M2BAX 355 SMC	3GBA352230--CCN	1485	95.1	95.4	94.9	0.87	649	6.1	2279	2.1	2.3	7.2	1669	84	

产品代码中的两个圆点表示可选的安装方式、电压及频率代码（见订购信息一页）。

The two bullets in the product code indicate choice of mounting arrangements, voltage and frequency code (see ordering information page).

I_s / I_N = 启动电流

T_l / T_N = 转子堵转转矩

T_b / T_N = 最大转矩

I_s / I_N = Starting current

T_l / T_N = Locked rotor torque

T_b / T_N = Breakdown torque

技术数据

Technical data

IE2

4P 400V 50Hz

三相全封闭鼠笼式电机的技术数据

Technical data for totally enclosed squirrel cage three phase motors

IP55 - IC411 绝缘等级 F, 温升等级 B

0.18-0.55kW, 符合 GB 25958-2010 的 3 级能效, 符合 IEC 60034-30-1:2014 的 IE2 效率等级

0.75-355kW, 符合 GB 18613-2012 的 3 级能效, 符合 IEC 60034-30-1:2014 的 IE2 效率等级

IP55 - IC411 Insulation class F, temperature class B

0.18-0.55kW, Grade 3 according to GB 25958-2010, IE2 according to IEC 60034-30-1:2014

0.75-355kW, Grade 3 according to GB 18613-2012, IE2 according to IEC 60034-30-1:2014

输出 Output	电机型号 Motor type	产品代码 Product code	转速 Speed	效率 / Efficiency IEC 60034-30-1:2014			功率 因数 Power factor	电流 Current		转矩 / Torque			转动惯量 Moment of inertia	重量 Weight	声压等级 Sound pressure level, L _{PA}
kW			r/min	满载 load 100%	3/4 负载 load 75%	1/2 负载 load 50%	cosφ	I _N	I _s /I _N	T _N	T _I / T _N	T _B / T _N	J=1/4 GD ² kgm ²	kg	dB
								A		Nm					
1500 r/min = 4 极 / 4 poles			400 V 50Hz			CENELEC- 设计 design									
0.25	M2BAX 71 MA	3GBA072310---CCN	1425	68.5	65.0	58.3	0.69	0.75	4.7	1.69	2.1	3.0	0.00059	9	49
0.37	M2BAX 71 MB	3GBA072320---CCN	1420	72.7	70.3	64.6	0.69	1.09	5.1	2.50	2.6	3.1	0.00076	10	46
0.55	M2BAX 80 MA	3GBA082310---CCN	1440	77.1	75.8	72.2	0.75	1.41	5.9	3.70	2.4	3.0	0.00205	15	54
0.75	M2BAX 80 MB	3GBA082320---CCN	1462	79.6	77.1	73.2	0.69	1.97	6.7	4.97	3.8	3.9	0.00250	18	53
1.1	M2BAX 90 SA	3GBA092110---CCN	1447	81.4	79.5	75.7	0.71	2.74	6.6	7.35	3.9	4.3	0.00370	22	51
1.5	M2BAX 90 LA	3GBA092510---CCN	1441	82.8	83.9	82.3	0.73	3.58	6.9	10.0	3.7	4.2	0.00460	24	55
2.2	M2BAX 100 LA	3GBA102510---CCN	1446	84.3	83.6	81.4	0.77	4.96	7.4	14.5	3.3	3.9	0.00759	31	55
3	M2BAX 100 LB	3GBA102520---CCN	1443	85.5	84.9	82.9	0.77	6.59	7.7	19.8	3.8	4.3	0.00939	35	58
4	M2BAX 112 MA	3GBA112310---CCN	1442	86.6	86.2	84.6	0.78	8.62	7.5	26.5	4.0	4.3	0.0120	41	56
5.5	M2BAX 132 SA	3GBA132110---CCN	1457	87.7	87.5	86.2	0.77	11.7	6.9	36.0	2.5	3.4	0.0257	59	65
7.5	M2BAX 132 MA	3GBA132310---CCN	1457	88.7	88.6	87.4	0.77	16.0	7.2	49.1	2.6	3.6	0.0320	70	67
11	M2BAX 160 MLA	3GBA162410---CCN	1466	89.8	89.9	89.2	0.78	22.8	7.0	71.5	3.3	3.2	0.0780	111	66
15	M2BAX 160 MLB	3GBA162420---CCN	1468	90.6	91.1	90.5	0.81	29.5	8.0	97.7	3.2	3.7	0.1000	126	66
18.5	M2BAX 180 MLA	3GBA182410---CCN	1470	91.2	91.4	90.5	0.79	36.9	8.5	120	3.7	4.2	0.1200	156	65
22	M2BAX 180 MLB	3GBA182420---CCN	1472	91.6	91.3	90.2	0.77	45.0	9.2	143	4.1	4.6	0.139	169	66
30	M2BAX 200 MLA	3GBA202410---CCN	1476	92.3	92.4	92.0	0.81	58.4	6.8	194	3.0	3.2	0.236	222	68
37	M2BAX 225 SMA	3GBA222210---CCN	1479	92.7	92.7	92.2	0.82	70.6	7.4	239	3.1	3.3	0.350	265	69
45	M2BAX 225 SMB	3GBA222220---CCN	1481	93.1	93.0	92.3	0.80	87.2	7.9	290	3.4	3.4	0.416	292	69
55	M2BAX 250 SMA	3GBA252210---CCN	1480	93.5	93.4	92.7	0.82	104	7.6	355	3.3	3.3	0.533	340	77
75	M2BAX 280 SMD	3GBA282240---HCN	1480	94.0	94.1	93.8	0.83	138	8.4	484	3.3	3.5	0.900	520	70
90	M2BAX 280 SME	3GBA282250---HCN	1480	94.2	94.3	94.0	0.86	160	7.8	581	3.3	3.4	1.1	583	70
110	M2BAX 315 SMA	3GBA312210---CCN	1488	94.5	94.3	93.5	0.85	197	6.9	706	2.3	2.9	2.3	792	78
132	M2BAX 315 SMB	3GBA312220---CCN	1487	94.7	94.7	93.9	0.86	236	6.9	847	2.3	2.7	2.6	847	78
160	M2BAX 315 SMC	3GBA312230---CCN	1487	94.9	95.0	94.2	0.85	288	7.2	1027	2.4	2.9	2.9	887	78
200	M2BAX 315 MLA	3GBA312410---CCN	1486	95.1	95.2	94.6	0.86	356	7.0	1285	2.3	2.8	3.5	1012	78
110	M2BAX 315SMA 4	3GBA312210---HCN	1485	94.5	94.8	94.4	0.85	195	7.2	707	2.9	3	2.3	750	68
132	M2BAX 315SMB 4	3GBA312220---HCN	1484	94.7	95	94.7	0.88	228	7.3	849	3	2.9	2.6	855	68
160	M2BAX 315SMC 4	3GBA312230---HCN	1484	94.9	95.1	94.7	0.85	283	7.5	1030	3.4	3.1	2.9	900	68
250	M2BAX 355 SMA	3GBA352210---CCN	1488	95.1	95.1	94.2	0.85	445	6.7	1604	2.0	2.6	5.4	1419	82
315	M2BAX 355 SMB	3GBA352220---CCN	1488	95.1	95.1	94.3	0.85	560	7.3	2021	2.2	2.7	6.9	1589	82
355	M2BAX 355 SMC	3GBA352230---CCN	1487	95.1	95.3	94.7	0.86	623	6.8	2279	2.4	2.7	7.2	1669	82

产品代码中的两个圆点表示可选的安装方式、电压及频率代码（见订购信息一页）。

The two bullets in the product code indicate choice of mounting arrangements, voltage and frequency code (see ordering information page).

I_s / I_N = 启动电流
T_I / T_N = 转子堵转转矩
T_B / T_N = 最大转矩

I_s / I_N = Starting current
T_I / T_N = Locked rotor torque
T_B / T_N = Breakdown torque

技术数据

Technical data

IE2

6P 380V 50Hz

三相全封闭鼠笼式电机的技术数据

Technical data for totally enclosed squirrel cage three phase motors

IP55 - IC411 绝缘等级 F, 温升等级 B

0.18-0.55kW, 符合 GB 25958-2010 的 3 级能效, 符合 IEC 60034-30-1:2014 的 IE2 效率等级

0.75-355kW, 符合 GB 18613-2012 的 3 级能效, 符合 IEC 60034-30-1:2014 的 IE2 效率等级

IP55 - IC411 Insulation class F, temperature class B

0.18-0.55kW, Grade 3 according to GB 25958-2010, IE2 according to IEC 60034-30-1:2014

0.75-355kW, Grade 3 according to GB 18613-2012, IE2 according to IEC 60034-30-1:2014

输出 Output	电机型号 Motor type	产品代码 Product code	转速 Speed	效率 / Efficiency IEC 60034-30-1:2014			功率 因数 Power factor	电流 Current		转矩 / Torque			转动惯量 Moment of inertia	重量 Weight	声压等级 Sound pressure level, L _{PA}
kW			r/min	满载 load 100%	3/4 负载 load 75%	1/2 负载 load 50%	cosφ	I _N A	I _s /I _N	T _N Nm	T _I / T _N	T _B / T _N	J=1/4 GD ² kgm ²	kg	dB
1000 r/min = 6 极 / 6 poles			380 V 50Hz			CENELEC- 设计 design									
0.18	M2BAX 71 MA	3GBA073310--CCN	890	56.6	53.9	48.0	0.76	0.63	3.1	1.87	1.8	2.1	0.00082	9	40
0.25	M2BAX 71 MB	3GBA073320--CCN	890	61.6	60.5	55.6	0.74	0.82	3.4	2.64	2.1	2.3	0.00105	10	47
0.37	M2BAX 80 MA	3GBA083310--CCN	906	67.6	67.0	63.0	0.77	1.11	4.0	3.84	2.2	2.5	0.00173	14	49
0.55	M2BAX 80 MB	3GBA083320--CCN	922	73.1	72.3	69.0	0.73	1.58	4.7	5.67	2.7	2.7	0.00267	19	47
0.75	M2BAX 90 SA	3GBA093110--CCN	945	75.9	74.0	69.6	0.64	2.31	4.8	7.60	3.0	3.3	0.00440	22	50
1.1	M2BAX 90 LA	3GBA093510--CCN	926	78.1	77.3	74.7	0.70	3.14	4.4	11.1	2.7	3.0	0.00510	25	48
1.5	M2BAX 100 LA	3GBA103510--CCN	950	79.8	79.1	76.2	0.68	4.26	5.5	15.0	2.4	3.0	0.00795	31	56
2.2	M2BAX 112 MA	3GBA113310--CCN	950	81.8	81.1	79.1	0.70	5.89	5.3	21.9	2.6	3.2	0.01160	40	54
3	M2BAX 132 SA	3GBA133110--CCN	962	83.3	83.2	82.0	0.67	8.06	5.3	29.5	1.8	2.7	0.0251	57	62
4	M2BAX 132 MA	3GBA133310--CCN	959	84.6	84.9	84.1	0.73	9.94	6.0	40.0	2.4	3.0	0.0294	65	59
5.5	M2BAX 132 MB	3GBA133320--CCN	959	86.0	86.3	86.0	0.70	14.0	5.5	54.2	2.0	2.6	0.0397	79	62
7.5	M2BAX 160 MLA	3GBA163410--CCN	970	87.2	87.9	88.0	0.77	16.7	6.1	73.7	1.8	2.9	0.0811	114	64
11	M2BAX 160 MLB	3GBA163420--CCN	967	88.7	89.6	90.4	0.81	23.6	6.6	109	1.6	2.5	0.1020	134	57
15	M2BAX 180 MLA	3GBA183410--CCN	968	89.7	90.3	90.6	0.79	32.4	7.4	147	2.1	3.5	0.1360	169	62
18.5	M2BAX 200 MLA	3GBA203410--CCN	975	90.4	90.8	90.7	0.79	39.3	5.6	181	1.8	2.6	0.204	205	61
22	M2BAX 200 MLB	3GBA203420--CCN	974	90.9	91.3	91.3	0.79	46.7	5.7	216	1.6	2.6	0.227	219	62
30	M2BAX 225 SMA	3GBA223210--CCN	986	91.7	91.9	91.5	0.81	61.3	6.7	290	2.4	2.9	0.579	284	64
37	M2BAX 250 SMA	3GBA253210--CCN	985	92.2	92.7	92.6	0.83	73.8	6.4	359	2.3	2.6	0.783	337	66
45	M2BAX 280 SMD	3GBA283240--HCN	989	92.7	93.1	92.9	0.82	90.1	6.5	434	2.4	2.8	1.3	498	62
55	M2BAX 280 SME	3GBA283250--HCN	988	93.1	93.5	93.3	0.83	108	6.3	531	2.4	2.7	1.5	523	66
75	M2BAX 315 SMA	3GBA313210--CCN	991	93.7	93.8	93.0	0.83	146	6.5	721	1.9	2.4	3.2	722	75
90	M2BAX 315 SMB	3GBA313220--CCN	991	94.0	94.2	93.6	0.84	172	6.6	866	1.9	2.4	4.1	817	75
110	M2BAX 315 SMC	3GBA313230--CCN	991	94.3	94.6	94.0	0.84	210	6.4	1058	2.0	2.4	4.9	887	75
132	M2BAX 315 MLA	3GBA313410--CCN	991	94.6	94.9	94.3	0.84	252	6.6	1271	2.2	2.4	5.8	997	75
160	M2BAX 355 SMA	3GBA353210--CCN	991	94.8	95.0	94.6	0.84	305	5.7	1540	1.9	2.1	7.3	1309	77
200	M2BAX 355 SMB	3GBA353220--CCN	991	95.0	95.3	95.0	0.85	375	5.9	1925	1.9	2.1	9.7	1459	77
250 ¹⁾	M2BAX 355 SMC	3GBA353230--CCN	990	95.0	95.4	95.2	0.85	469	6.1	2409	2.1	2.1	11.3	1609	77

¹⁾ 温升等级 F ¹⁾ temperature rise class F

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I_s / I_N = 启动电流
 T_I / T_N = 转子堵转转矩
 T_b / T_N = 最大转矩

I_s / I_N = Starting current
 T_I / T_N = Locked rotor torque
 T_b / T_N = Breakdown torque

技术数据

Technical data

IE2

6P 400V 50Hz

三相全封闭鼠笼式电机的技术数据

Technical data for totally enclosed squirrel cage three phase motors

IP55 - IC411 绝缘等级 F, 温升等级 B

0.18-0.55kW, 符合 GB 25958-2010 的 3 级能效, 符合 IEC 60034-30-1:2014 的 IE2 效率等级

0.75-355kW, 符合 GB 18613-2012 的 3 级能效, 符合 IEC 60034-30-1:2014 的 IE2 效率等级

IP55 - IC411 Insulation class F, temperature class B

0.18-0.55kW, Grade 3 according to GB 25958-2010, IE2 according to IEC 60034-30-1:2014

0.75-355kW, Grade 3 according to GB 18613-2012, IE2 according to IEC 60034-30-1:2014

输出 Output	电机型号 Motor type	产品代码 Product code	转速 Speed	效率 / Efficiency IEC 60034-30-1:2014			功率 因数 Power factor	电流 Current		转矩 / Torque			转动惯量 Moment of inertia	重量 Weight	声压等级 Sound pressure level, L _{PA}
				满载 load 100%	3/4 负载 load 75%	1/2 负载 load 50%		I _N A	I _s /I _N	T _N Nm	T _i / T _N	T _B / T _N			
kW			r/min										J=1/4 GD ² kgm ²	kg	dB
1000 r/min = 6 极 / 6 poles			400 V 50Hz			CENELEC- 设计 design									
0.18	M2BAX 71 MA	3GBA073310--CCN	910	56.6	52.1	44.4	0.71	0.63	3.3	1.87	2.0	2.4	0.00082	9	40
0.25	M2BAX 71 MB	3GBA073320--CCN	905	61.6	58.9	52.3	0.70	0.82	3.6	2.64	2.4	2.6	0.00105	10	47
0.37	M2BAX 80 MA	3GBA083310--CCN	919	67.6	65.5	60.1	0.72	1.12	4.2	3.84	2.5	2.7	0.00173	14	47
0.55	M2BAX 80 MB	3GBA083320--CCN	931	73.1	71.1	66.5	0.68	1.59	4.7	5.67	3.0	3.0	0.00267	19	47
0.75	M2BAX 90 SA	3GBA093110--CCN	949	75.9	73.1	67.8	0.60	2.37	5.1	7.60	3.3	3.7	0.00440	22	50
1.1	M2BAX 90 LA	3GBA093510--CCN	936	78.1	76.2	72.7	0.65	3.17	4.6	11.1	3.0	3.3	0.00510	25	48
1.5	M2BAX 100 LA	3GBA103510--CCN	956	79.8	78.2	74.2	0.63	4.36	5.8	15.0	2.7	3.3	0.00795	31	56
2.2	M2BAX 112 MA	3GBA113310--CCN	956	81.8	80.4	77.4	0.66	5.97	5.5	21.9	2.9	3.5	0.01160	40	54
3	M2BAX 132 SA	3GBA133110--CCN	967	83.3	82.5	80.2	0.63	8.12	5.5	29.5	2.0	3.0	0.0251	57	62
4	M2BAX 132 MA	3GBA133310--CCN	964	84.6	84.3	82.7	0.69	9.95	6.4	39.8	2.7	3.3	0.0294	65	59
5.5	M2BAX 132 MB	3GBA133320--CCN	964	86.0	85.9	84.6	0.66	14.0	5.8	54.2	2.2	2.9	0.0397	79	62
7.5	M2BAX 160 MLA	3GBA163410--CCN	974	87.2	87.5	86.9	0.74	16.4	6.6	73.7	2.0	3.2	0.0811	114	65
11	M2BAX 160 MLB	3GBA163420--CCN	971	88.7	89.3	89.7	0.78	22.9	6.6	108	1.3	2.8	0.1020	134	57
15	M2BAX 180 MLA	3GBA183410--CCN	971	89.7	90.0	89.6	0.76	32.0	7.4	147	2.4	3.9	0.1360	169	62
18.5	M2BAX 200 MLA	3GBA203410--CCN	978	90.4	90.7	90.0	0.76	38.5	6.1	181	2.0	2.9	0.204	205	61
22	M2BAX 200 MLB	3GBA203420--CCN	978	90.9	91.1	90.5	0.76	45.6	6.2	215	1.8	2.9	0.227	219	62
30	M2BAX 225 SMA	3GBA223210--CCN	987	91.7	91.5	90.5	0.78	60.6	7.0	290	2.7	3.2	0.579	284	64
37	M2BAX 250 SMA	3GBA253210--CCN	986	92.2	92.5	91.9	0.80	71.9	6.9	359	2.6	2.9	0.783	337	66
45	M2BAX 280 SMD	3GBA283240--HCN	990	92.7	92.8	92.4	0.80	88.2	7.1	434	2.7	3.1	1.3	498	62
55	M2BAX 280 SME	3GBA283250--HCN	989	93.1	93.2	92.8	0.81	105	6.9	531	2.7	2.9	1.5	523	66
75	M2BAX 315 SMA	3GBA313210--CCN	992	93.7	93.7	92.6	0.81	143	7.0	721	2.1	2.7	3.2	722	75
90	M2BAX 315 SMB	3GBA313220--CCN	992	94.0	94.1	93.2	0.83	165	7.2	866	2.1	2.7	4.1	817	75
110	M2BAX 315 SMC	3GBA313230--CCN	992	94.3	94.4	93.7	0.83	203	7.0	1058	2.2	2.7	4.9	887	75
132	M2BAX 315 MLA	3GBA313410--CCN	992	94.6	94.7	94.0	0.83	243	7.2	1270	2.4	2.7	5.8	997	75
160	M2BAX 355 SMA	3GBA353210--CCN	992	94.8	94.9	94.2	0.83	293	6.2	1540	2.1	2.3	7.3	1309	77
200	M2BAX 355 SMB	3GBA353220--CCN	992	95.0	95.2	94.6	0.84	360	6.5	1925	2.1	2.3	9.7	1459	77
250 ¹⁾	M2BAX 355 SMC	3GBA353230--CCN	991	95.0	95.2	94.8	0.84	450	6.7	2409	2.3	2.3	11.3	1609	77

¹⁾ 温升等级 F ¹⁾ temperature rise class F

产品代码中的两个圆点表示可选的安装方式、电压及频率代码（见订购信息一页）。

The two bullets in the product code indicate choice of mounting arrangements, voltage and frequency code (see ordering information page).

I_s / I_N = 启动电流
T_I / T_N = 转子堵转转矩
T_B / T_N = 最大转矩

I_s / I_N = Starting current
T_I / T_N = Locked rotor torque
T_B / T_N = Breakdown torque

技术数据

Technical data

IE3

2P 380V 50Hz

三相全封闭鼠笼式电机的技术数据

Technical data for totally enclosed squirrel cage three phase motors

IP55 - IC411 绝缘等级 F, 温升等级 B

0.18-0.55kW, 符合 GB 25958-2010 的 2 级能效, 符合 IEC 60034-30-1:2014 的 IE3 效率等级

0.75-355kW, 符合 GB 18613-2012 的 2 级能效, 符合 IEC 60034-30-1:2014 的 IE3 效率等级

IP55 - IC411 Insulation class F, temperature class B

0.18-0.55kW, Grade 2 according to GB 25958-2010, IE3 according to IEC 60034-30-1:2014

0.75-355kW, Grade 2 according to GB 18613-2012, IE3 according to IEC 60034-30-1:2014

输出 Output	电机型号 Motor type	产品代码 Product code	转速 Speed	效率 / Efficiency IEC 60034-30-1;2014			功率 因数 Power factor	电流 Current		转矩 / Torque			转动惯量 Moment of inertia	重量 Weight	声压等级 Sound pressure level, L _{PA}
kW			r/min	满载 load 100%	3/4 负载 load 75%	1/2 负载 load 50%		I _N A	I _s /I _N	T _N Nm	T _i / T _N	T _B / T _N			
				cosφ											
3000 r/min = 2 极 / 2 poles			380 V 50Hz			CENELEC- 设计 design									
0.37	M2BAX 71 MC	3GBA071330---DCN	2791	76.5	76.9	75.7	0.83	0.88	6.1	1.26	2.4	2.9	0.00035	10	50
0.55	M2BAX 71 MB	3GBA071320---DCN	2779	78.4	79.2	78.6	0.84	1.29	5.7	1.88	2.4	2.8	0.00040	10	49
0.75	M2BAX 80 MC	3GBA081330---DCN	2875	80.7	81.6	80.3	0.84	1.68	7.0	2.53	2.7	3.3	0.00081	16	58
1.1	M2BAX 80 MD	3GBA081340---DCN	2839	82.7	83.7	83.8	0.86	2.37	7.1	3.70	2.9	3.2	0.00102	17	59
1.5	M2BAX 90 SB	3GBA091120---DCN	2901	84.2	85.0	84.0	0.86	3.12	8.0	4.96	2.6	3.5	0.00234	23	54
2.2	M2BAX 90 SLA	3GBA091010---DCN	2893	85.9	86.3	85.7	0.85	4.60	8.3	7.28	2.9	3.5	0.00300	26	66
3	M2BAX 100 LKA	3GBA101810---DCN	2893	87.1	88.4	88.7	0.92	5.70	8.4	9.84	2.7	3.4	0.00691	42	60
4	M2BAX 112 MB	3GBA111320---DCN	2892	88.1	89.4	90.0	0.91	7.59	8.3	13.2	2.5	3.3	0.00711	42	64
5.5	M2BAX 132 SMA	3GBA131210---DCN	2926	89.2	90.0	89.7	0.84	11.0	8.1	18.0	2.2	3.7	0.0136	64	65
7.5	M2BAX 132 SMB	3GBA131220---DCN	2912	90.1	91.2	91.4	0.86	14.6	8.2	24.6	2.3	3.6	0.0166	72	65
11	M2BAX 160 MLA	3GBA161410---FCN	2933	91.2	92.0	92.1	0.92	20.1	6.5	35.7	2.3	3.2	0.0570	121	69
15	M2BAX 160 MLB	3GBA161420---FCN	2939	91.9	92.5	92.4	0.90	27.5	7.9	48.6	2.8	3.8	0.0630	128	69
18.5	M2BAX 160 MLC	3GBA161430---FCN	2939	92.4	93.2	93.2	0.91	33.5	8.1	59.9	3.0	3.5	0.0760	145	73
22	M2BAX 180 MLA	3GBA181410---FCN	2934	92.7	93.2	93.1	0.89	40.6	8.6	71.6	3.1	3.7	0.0730	152	70
30	M2BAX 200 MLA	3GBA201410---FCN	2955	93.3	93.5	92.9	0.91	54.1	9.1	96.9	3.3	3.7	0.144	250	80
37	M2BAX 200 MLB	3GBA201420---FCN	2943	93.7	94.0	93.7	0.90	66.6	9.5	119	3.7	3.7	0.160	268	78
45	M2BAX 225 SMA	3GBA221210---FCN	2960	94.0	94.2	93.7	0.87	83.7	9.3	145	3.4	3.7	0.223	278	80
55	M2BAX 250 SMA	3GBA251210---FCN	2958	94.3	94.6	94.5	0.89	99.9	7.4	177	3.1	2.7	0.344	335	78
75	M2BAX 280 SMF	3GBA281260---FCN	2966	94.7	94.4	94.5	0.90	135	7.1	241	2.4	3.0	0.600	527	78
90	M2BAX 280 SMG	3GBA281270---FCN	2965	95.0	95.4	95.5	0.91	159	7.2	290	2.7	3.0	0.700	576	75
110	M2BAX 315 SMB	3GBA311220---MCN	2980	95.2	95.0	94.1	0.88	199	6.4	352	1.6	2.4	1.3	801	78
132	M2BAX 315 SMC	3GBA311230---MCN	2979	95.4	95.4	94.6	0.89	236	6.2	422	1.8	2.5	1.5	852	78
160	M2BAX 315 SMD	3GBA311240---MCN	2980	95.6	95.6	95.0	0.88	289	6.7	512	2.0	2.5	1.7	909	78
200 ¹⁾	M2BAX 315 MLA	3GBA311410---MCN	2980	95.8	96.0	95.7	0.89	358	6.8	641	2.1	2.8	2.1	1051	81
250	M2BAX 355 SMA	3GBA351210---MCN	2981	95.8	95.6	94.6	0.90	438	7.0	800	1.9	3.0	3.0	1412	83
315	M2BAX 355 SMB	3GBA351220---MCN	2977	95.8	95.8	95.1	0.89	560	6.3	1009	1.9	2.7	3.4	1495	83
355	M2BAX 355 SMC	3GBA351230---MCN	2981	95.8	95.8	95.2	0.89	629	6.5	1136	2.0	2.7	3.6	1565	83

¹⁾ 温升等级 F ²⁾ temperature rise class F

产品代码中的两个圆点表示可选的安装方式、电压及频率代码（见订购信息一页）。

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I_s / I_N = 启动电流
T_i / T_N = 转子堵转转矩
T_b / T_N = 最大转矩

I_s / I_N = Starting current
T_i / T_N = Locked rotor torque
T_b / T_N = Breakdown torque

技术数据

Technical data

IE3

2P 400V 50Hz

三相全封闭鼠笼式电机的技术数据

Technical data for totally enclosed squirrel cage three phase motors

IP55 - IC411 绝缘等级 F, 温升等级 B

0.18-0.55kW, 符合 GB 25958-2010 的 2 级能效, 符合 IEC 60034-30-1:2014 的 IE3 效率等级

0.75-355kW, 符合 GB 18613-2012 的 2 级能效, 符合 IEC 60034-30-1:2014 的 IE3 效率等级

IP55 - IC411 Insulation class F, temperature class B

0.18-0.55kW, Grade 2 according to GB 25958-2010, IE3 according to IEC 60034-30-1:2014

0.75-355kW, Grade 2 according to GB 18613-2012, IE3 according to IEC 60034-30-1:2014

输出 Output	电机型号 Motor type	产品代码 Product code	转速 Speed	效率 / Efficiency IEC 60034-30-1:2014			功率 因数 Power factor	电流 Current			转矩 / Torque		转动惯量 Moment of inertia	重量 Weight	声压等级 Sound pressure level, L _{PA}
				满载 load 100%	3/4 负载 load 75%	1/2 负载 load 50%		I _N A	I _s /I _N	T _N Nm	T _l / T _N	T _b / T _N			
kW			r/min				cos φ						J=1/4 GD ² kgm ²	kg	dB
3000 r/min = 2 极 / 2 poles			400 V			CENELEC- 设计 design									
0.37	M2BAX 71 MC	3GBA071330---DCN	2819	76.5	76.0	73.4	0.80	0.86	6.6	1.26	2.7	3.2	0.00035	10	50
0.55	M2BAX 71 MB	3GBA071320---DCN	2816	78.4	78.1	75.9	0.80	1.27	6.1	1.88	2.7	3.2	0.00040	10	49
0.75	M2BAX 80 MC	3GBA081330---DCN	2891	80.7	81.0	78.9	0.80	1.66	7.5	2.49	2.9	3.7	0.00081	16	58
1.1	M2BAX 80 MD	3GBA081340---DCN	2860	82.7	83.3	82.6	0.84	2.29	7.6	3.70	3.2	3.6	0.00102	17	60
1.5	M2BAX 90 SB	3GBA091120---DCN	2912	84.2	84.0	82.5	0.83	3.04	8.6	4.96	2.8	3.9	0.00234	23	54
2.2	M2BAX 90 SLA	3GBA091010---DCN	2908	85.9	85.6	83.9	0.81	4.54	8.8	7.26	3.2	3.9	0.00300	26	67
3	M2BAX 100 LKA	3GBA101810---DCN	2910	87.1	88.0	88.0	0.91	5.38	8.9	9.84	3.0	3.8	0.00691	42	60
4	M2BAX 112 MB	3GBA111320---DCN	2904	88.1	89.0	89.2	0.90	7.23	9.3	13.2	2.8	3.7	0.00711	42	64
5.5	M2BAX 132 SMA	3GBA131210---DCN	2934	89.2	89.8	89.0	0.82	10.6	8.9	17.9	2.4	4.1	0.0136	64	65
7.5	M2BAX 132 SMB	3GBA131220---DCN	2921	90.1	91.0	90.9	0.84	14.0	9.0	24.5	2.6	4.0	0.0166	72	65
11	M2BAX 160 MLA	3GBA161410---FCN	2943	91.2	92.0	91.6	0.91	19.1	7.2	35.6	2.6	3.6	0.0570	121	69
15	M2BAX 160 MLB	3GBA161420---FCN	2947	91.9	92.2	91.8	0.88	26.5	8.2	48.5	3.2	4.2	0.0630	128	69
18.5	M2BAX 160 MLC	3GBA161430---FCN	2949	92.4	93.0	92.6	0.90	32.0	9.0	59.8	3.3	3.9	0.0760	145	73
22	M2BAX 180 MLA	3GBA181410---FCN	2941	92.7	93.0	92.7	0.84	41.1	8.7	71.4	3.4	4.1	0.0730	152	70
30	M2BAX 200 MLA	3GBA201410---FCN	2961	93.3	93.3	92.6	0.89	52.0	10.0	96.9	3.7	4.1	0.144	250	80
37	M2BAX 200 MLB	3GBA201420---FCN	2951	93.7	93.9	93.3	0.89	63.9	10.5	119	4.2	4.1	0.160	268	78
45	M2BAX 225 SMA	3GBA221210---FCN	2962	94.0	94.0	93.3	0.85	81.3	9.3	145	3.8	4.1	0.223	278	80
55	M2BAX 250 SMA	3GBA251210---FCN	2965	94.3	94.3	93.7	0.87	96.4	7.4	177	3.4	3.0	0.344	335	78
75	M2BAX 280 SMF	3GBA281260---FCN	2971	94.7	94.7	94.0	0.89	129	7.7	241	2.7	3.3	0.600	527	78
90	M2BAX 280 SMG	3GBA281270---FCN	2970	95.0	95.3	95.2	0.91	152	8.0	289	3.1	3.3	0.700	576	76
110	M2BAX 315 SMB	3GBA311220---MCN	2982	95.2	94.9	93.9	0.87	192	7.0	352	1.8	2.7	1.3	801	78
132	M2BAX 315 SMC	3GBA311230---MCN	2982	95.4	95.4	94.6	0.87	229	6.8	422	2.0	2.8	1.5	852	78
160	M2BAX 315 SMD	3GBA311240---MCN	2983	95.6	95.6	94.9	0.87	275	7.4	512	2.2	2.8	1.7	909	78
200 ¹⁾	M2BAX 315 MLA	3GBA311410---MCN	2983	95.8	96.0	95.5	0.88	342	7.5	640	2.3	3.1	2.1	1051	81
250	M2BAX 355 SMA	3GBA351210---MCN	2985	95.8	95.6	94.6	0.89	423	7.7	800	2.1	3.3	3.0	1412	83
315	M2BAX 355 SMB	3GBA351220---MCN	2980	95.8	95.7	95.0	0.89	529	7.0	1009	2.1	3.0	3.4	1495	83
355	M2BAX 355 SMC	3GBA351230---MCN	2984	95.8	95.8	95.0	0.88	605	7.2	1136	2.2	3.0	3.6	1565	83

¹⁾ 温升等级 F ¹⁾ temperature rise class F

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I_s / I_N = Starting current
T_l / T_N = Locked rotor torque
T_b / T_N = Breakdown torque

技术数据

Technical data

IE3

4P 380V 50Hz

三相全封闭鼠笼式电机的技术数据

Technical data for totally enclosed squirrel cage three phase motors

IP55 - IC411 绝缘等级 F, 温升等级 B

0.18-0.55kW, 符合 GB 25958-2010 的 2 级能效, 符合 IEC 60034-30-1:2014 的 IE3 效率等级

0.75-355kW, 符合 GB 18613-2012 的 2 级能效, 符合 IEC 60034-30-1:2014 的 IE3 效率等级

IP55 - IC411 Insulation class F, temperature class B

0.18-0.55kW, Grade 2 according to GB 25958-2010, IE3 according to IEC 60034-30-1:2014

0.75-355kW, Grade 2 according to GB 18613-2012, IE3 according to IEC 60034-30-1:2014

输出 Output	电机型号 Motor type	产品代码 Product code	转速 Speed	效率 / Efficiency IEC 60034-30-1:2014			功率 因数 Power factor	电流 Current		转矩 / Torque			转动惯量 Moment of inertia	重量 Weight	声压等级 Sound pressure level, L _{PA}
				满载 load 100%	3/4 负载 load 75%	1/2 负载 load 50%		I _N A	I _s /I _N	T _N Nm	T _I / T _N	T _B / T _N			
kW			r/min				cosφ						J=1/4 GD ² kgm ²	kg	dB
1500 r/min = 4 极 / 4 poles			380 V			CENELEC- 设计 design									
0.25	M2BAX 71 MB	3GBA072320--DCN	1432	73.5	71.6	66.2	0.69	0.76	5.8	1.67	2.5	3.1	0.00075	10	41
0.37	M2BAX 71 MLA	3GBA072410--DCN	1433	77.3	75.6	71.4	0.71	0.80	6.4	2.47	2.5	3.4	0.00098	12	50
0.55	M2BAX 80 MC	3GBA082330--DCN	1438	80.8	81.4	79.4	0.77	1.34	7.7	3.66	1.9	3.5	0.00228	17	48
0.75	M2BAX 80 MLA	3GBA082410--DCN	1438	82.5	81.8	79.2	0.74	1.83	7.9	4.88	3.4	4.2	0.00295	21	48
1.1	M2BAX 90 SB	3GBA092120--DCN	1431	84.1	83.8	82.3	0.77	2.58	7.3	7.27	3.2	3.7	0.00394	23	47
1.5	M2BAX 90 SLA	3GBA092010--DCN	1427	85.3	85.0	83.4	0.77	3.50	7.3	10.0	3.4	3.8	0.00485	25	44
2.2	M2BAX 100 LB	3GBA102520--DCN	1444	86.7	87.1	85.5	0.81	4.81	8.6	14.6	3.1	3.9	0.00863	34	50
3	M2BAX 100 LKA	3GBA102810--DCN	1443	87.7	88.1	87.6	0.82	6.35	8.8	19.9	3.2	4.1	0.01150	41	56
4	M2BAX 112 MLA	3GBA112410--DCN	1436	88.6	89.9	90.1	0.83	8.25	8.7	26.7	3.2	3.9	0.0152	50	56
5.5	M2BAX 132 SMA	3GBA132210--DCN	1459	89.6	90.9	91.1	0.79	11.7	7.4	36.0	2.3	3.0	0.0297	67	68
7.5	M2BAX 132 MLA	3GBA132410--DCN	1452	90.4	91.5	91.6	0.81	15.5	7.9	49.1	2.3	2.7	0.0390	84	65
11	M2BAX 160 MLA	3GBA162410--FCN	1474	91.4	91.9	91.5	0.83	21.9	6.9	71.5	2.3	3.0	0.1100	136	61
15	M2BAX 160 MLB	3GBA162420--FCN	1474	92.1	92.6	92.1	0.84	29.4	7.5	97.2	2.6	3.2	0.1350	161	61
18.5	M2BAX 180 MLA	3GBA182410--FCN	1469	92.6	92.9	92.8	0.84	36.3	9.4	120	3.2	3.6	0.1350	169	64
22	M2BAX 180 MLB	3GBA182420--FCN	1469	93.0	93.3	93.2	0.83	43.8	9.3	143	3.0	3.8	0.167	198	65
30	M2BAX 200 MLA	3GBA202410--FCN	1479	93.6	94.1	93.9	0.84	58.5	8.9	193	3.3	2.7	0.320	282	68
37	M2BAX 225 SMA	3GBA222210--FCN	1476	93.9	94.4	94.3	0.84	71.8	8.6	237	2.2	2.7	0.376	278	67
45	M2BAX 225 SMB	3GBA222220--FCN	1478	94.2	94.6	94.5	0.82	88.7	8.6	289	3.7	3.2	0.415	293	68
55	M2BAX 250 SMA	3GBA252210--FCN	1475	94.6	94.9	94.8	0.86	103	8.6	353	3.5	2.9	0.620	386	74
75	M2BAX 280 SMF	3GBA282260--FCN	1479	95.0	95.2	95.2	0.86	139	7.8	484	3.2	3.4	0.959	530	68
90	M2BAX 280 SMG	3GBA282270--FCN	1479	95.2	95.5	95.7	0.87	165	7.5	581	3.4	3.4	1.2	593	67
110	M2BAX 315 SMB	3GBA312220--MCN	1488	95.4	95.5	95.0	0.86	201	6.3	705	1.9	2.7	2.4	823	71
132	M2BAX 315 SMC	3GBA312230--MCN	1487	95.6	95.8	95.7	0.87	242	6.1	848	1.9	2.6	2.9	892	71
160	M2BAX 315 SMD	3GBA312240--MCN	1487	95.8	96.0	95.7	0.86	295	6.3	1026	2.0	2.7	3.2	933	71
200	M2BAX 315 MLB	3GBA312420--MCN	1485	96.0	96.3	96.2	0.87	364	6.1	1284	2.1	2.7	3.9	1091	74
250	M2BAX 355 SMA	3GBA352210--MCN	1490	96.0	96.0	95.6	0.87	452	5.8	1601	1.9	2.6	5.9	1445	78
315	M2BAX 355 SMB	3GBA352220--MCN	1491	96.0	96.2	95.7	0.86	578	6.6	2018	2.1	3.0	6.9	1595	78
355	M2BAX 355 SMC	3GBA352230--MCN	1490	96.0	96.3	96.1	0.87	643	5.7	2273	2.1	2.5	7.2	1635	78

产品代码中的两个圆点表示可选的安装方式、电压及频率代码（见订购信息一页）。

The two bullets in the product code indicate choice of mounting arrangements, voltage and frequency code (see ordering information page).

I_s / I_N = 启动电流
T_I / T_N = 转子堵转转矩
T_B / T_N = 最大转矩

I_s / I_N = Starting current
T_I / T_N = Locked rotor torque
T_B / T_N = Breakdown torque

技术数据

Technical data

IE3

4P 400V 50Hz

三相全封闭鼠笼式电机的技术数据

Technical data for totally enclosed squirrel cage three phase motors

IP55 - IC411 绝缘等级 F, 温升等级 B

0.18-0.55kW, 符合 GB 25958-2010 的 2 级能效, 符合 IEC 60034-30-1:2014 的 IE3 效率等级

0.75-355kW, 符合 GB 18613-2012 的 2 级能效, 符合 IEC 60034-30-1:2014 的 IE3 效率等级

IP55 - IC411 Insulation class F, temperature class B

0.18-0.55kW, Grade 2 according to GB 25958-2010, IE3 according to IEC 60034-30-1:2014

0.75-355kW, Grade 2 according to GB 18613-2012, IE3 according to IEC 60034-30-1:2014

输出 Output	电机型号 Motor type	产品代码 Product code	转速 Speed	效率 / Efficiency IEC 60034-30-1;2014			功率 因数 Power factor	电流 Current		转矩 / Torque			转动惯量 Moment of inertia	重量 Weight	声压等级 Sound pressure level, L _{PA}
				满载 load 100%	3/4 负载 load 75%	1/2 负载 load 50%		I _N A	I _s /I _N	T _N Nm	T _i / T _N	T _B / T _N			
kW			r/min				cos φ						J=1/4 GD ² kgm ²	kg	dB
1500 r/min = 4 极 / 4 poles			400 V	CENELEC- 设计 design											
0.25	M2BAX 71 MB	3GBA072320---DCN	1440	73.5	70.1	63.8	0.64	0.78	6.1	1.67	2.7	3.5	0.00075	10	41
0.37	M2BAX 71 MLA	3GBA072410---DCN	1441	77.3	74.9	69.8	0.66	1.06	6.8	2.47	2.7	3.8	0.00098	12	50
0.55	M2BAX 80 MC	3GBA082330---DCN	1446	80.8	80.7	78.0	0.74	1.32	8.4	3.64	2.7	3.9	0.00228	17	48
0.75	M2BAX 80 MLA	3GBA082410---DCN	1445	82.5	81.2	77.6	0.70	1.84	8.2	4.88	3.8	4.6	0.00295	21	49
1.1	M2BAX 90 SB	3GBA092120---DCN	1438	84.1	83.4	80.9	0.73	2.59	7.9	7.28	3.6	4.2	0.00394	23	48
1.5	M2BAX 90 SLA	3GBA092010---DCN	1434	85.3	84.4	82.1	0.73	3.52	7.9	10.0	3.9	4.0	0.00485	25	44
2.2	M2BAX 100 LB	3GBA102520---DCN	1450	86.7	86.1	84.1	0.78	4.74	9.3	14.5	3.4	4.4	0.00863	34	50
3	M2BAX 100 LKA	3GBA102810---DCN	1448	87.7	87.7	86.5	0.79	6.25	9.6	19.9	3.6	4.5	0.01150	41	57
4	M2BAX 112 MLA	3GBA112410---DCN	1443	88.6	88.9	88.1	0.81	8.11	9.4	26.5	3.6	4.4	0.0152	50	57
5.5	M2BAX 132 SMA	3GBA132210---DCN	1463	89.6	90.4	90.2	0.77	11.5	7.9	35.9	2.6	3.3	0.0297	67	68
7.5	M2BAX 132 MLA	3GBA132410---DCN	1456	90.4	91.1	90.8	0.78	15.2	8.8	49.1	2.5	3.0	0.0390	84	65
11	M2BAX 160 MLA	3GBA162410---FCN	1477	91.4	91.8	91.1	0.82	21.1	7.6	71.3	2.6	3.3	0.1100	136	61
15	M2BAX 160 MLB	3GBA162420---FCN	1477	92.1	92.4	91.6	0.82	28.5	8.2	97.0	3.0	3.7	0.1350	161	61
18.5	M2BAX 180 MLA	3GBA182410---FCN	1472	92.6	92.6	92.0	0.82	35.0	10.3	120	3.6	4.0	0.1350	169	64
22	M2BAX 180 MLB	3GBA182420---FCN	1473	93.0	93.2	92.5	0.80	42.8	10.1	143	3.3	4.2	0.167	198	65
30	M2BAX 200 MLA	3GBA202410---FCN	1481	93.6	94.0	93.5	0.82	56.3	10.0	193	3.9	3.0	0.320	282	69
37	M2BAX 225 SMA	3GBA222210---FCN	1479	93.9	94.2	93.7	0.81	70.3	9.3	238	2.5	3.0	0.376	278	67
45	M2BAX 225 SMB	3GBA222220---FCN	1481	94.2	94.4	93.8	0.79	87.8	9.1	288	4.2	3.6	0.415	293	68
55	M2BAX 250 SMA	3GBA252210---FCN	1479	94.6	94.7	94.0	0.83	102	10.1	352	4.4	3.4	0.620	386	74
75	M2BAX 280 SMF	3GBA282260---FCN	1481	95.0	95.1	95.0	0.83	137	8.6	484	3.6	3.8	0.959	530	68
90	M2BAX 280 SMG	3GBA282270---FCN	1482	95.2	95.3	95.2	0.85	161	8.4	580	3.8	3.9	1.2	593	68
110	M2BAX 315 SMB	3GBA312220---MCN	1489	95.4	95.4	94.8	0.85	196	7.0	705	2.1	3.0	2.4	823	71
132	M2BAX 315 SMC	3GBA312230---MCN	1488	95.6	95.8	95.3	0.86	231	6.7	847	2.2	2.9	2.9	892	71
160	M2BAX 315 SMD	3GBA312240---MCN	1488	95.8	96.0	95.8	0.85	282	6.9	1026	2.2	3.0	3.2	933	71
200	M2BAX 315 MLB	3GBA312420---MCN	1487	96.0	96.4	96.4	0.86	351	6.8	1284	2.4	3.0	3.9	1091	74
250	M2BAX 355 SMA	3GBA352210---MCN	1491	96.0	96.0	95.6	0.86	435	6.4	1601	2.1	2.9	5.9	1445	78
315	M2BAX 355 SMB	3GBA352220---MCN	1491	96.0	96.0	95.6	0.86	545	6.7	2018	2.3	3.0	6.9	1595	78
355	M2BAX 355 SMC	3GBA352230---MCN	1490	96.0	96.2	95.8	0.86	616	6.3	2273	2.3	2.8	7.2	1635	78

产品代码中的两个圆点表示可选的安装方式、电压及频率代码（见订购信息一页）。

The two bullets in the product code indicate choice of mounting arrangements, voltage and frequency code (see ordering information page).

I_s / I_N = 启动电流

T_l / T_N = 转子堵转转矩

T_B / T_N = 最大转矩

I_s / I_N = Starting current

T_l / T_N = Locked rotor torque

T_B / T_N = Breakdown torque

技术数据

Technical data

IE3

6P 380V 50Hz

三相全封闭鼠笼式电机的技术数据
 Technical data for totally enclosed squirrel cage three phase motors

IP55 - IC411 绝缘等级 F, 温升等级 B
 0.18-0.55kW, 符合 GB 25958-2010 的 2 级能效, 符合 IEC 60034-30-1:2014 的 IE3 效率等级
 0.75-355kW, 符合 GB 18613-2012 的 2 级能效, 符合 IEC 60034-30-1:2014 的 IE3 效率等级
 IP55 - IC411 Insulation class F, temperature class B
 0.18-0.55kW, Grade 2 according to GB 25958-2010, IE3 according to IEC 60034-30-1:2014
 0.75-355kW, Grade 2 according to GB 18613-2012, IE3 according to IEC 60034-30-1:2014

输出 Output	电机型号 Motor type	产品代码 Product code	转速 Speed	效率 / Efficiency IEC 60034-30-1;2014			功率 因数 Power factor	电流 Current		转矩 / Torque			转动惯量 Moment of inertia	重量 Weight	声压等级 Sound pressure level, L _{PA}
				满载 load 100%	3/4 负载 load 75%	1/2 负载 load 50%		I _N A	I _s /I _N	T _N Nm	T _l / T _N	T _B / T _N			
kW			r/min				cosφ						J=1/4 GD ² kgm ²	kg	dB
1000 r/min = 6 极 / 6 poles			380 V	CENELEC- 设计 design											
0.18	M2BAX 71 MB	3GBA073320---DCN	922	63.9	60.8	54.9	0.73	0.59	3.8	1.87	1.9	2.3	0.00103	10	39
0.25	M2BAX 71 MLA	3GBA073410---DCN	915	68.6	67.3	63.0	0.71	0.80	3.8	2.58	2.4	2.6	0.00140	13	46
0.37	M2BAX 80 MC	3GBA083330---DCN	930	73.5	72.4	68.8	0.70	1.09	5.4	3.80	2.5	2.9	0.00240	17	42
0.55	M2BAX 80 MLA	3GBA083410---DCN	934	77.2	76.8	73.7	0.71	1.54	5.9	5.61	3.0	3.1	0.00353	23	47
0.75	M2BAX 90 SLA	3GBA093010---DCN	946	78.9	78.9	75.8	0.63	2.32	5.1	7.57	2.8	3.3	0.00440	23	50
1.1	M2BAX 90 LB	3GBA093520---DCN	948	81.0	79.9	76.8	0.66	3.14	5.7	11.1	3.0	3.5	0.00643	30	53
1.5	M2BAX 100 LKA	3GBA103810---DCN	947	82.5	83.0	81.7	0.69	4.02	4.9	15.1	2.4	2.7	0.00975	37	48
2.2	M2BAX 112 MLA	3GBA113410---DCN	951	84.3	84.3	82.9	0.68	5.90	6.2	22.0	2.6	3.3	0.01300	46	49
3	M2BAX 132 SMA	3GBA133210---DCN	964	85.6	86.8	86.2	0.73	7.31	6.4	29.7	1.9	2.8	0.0291	65	48
4	M2BAX 132 SMB	3GBA133220---DCN	968	86.8	87.4	86.1	0.69	10.2	6.6	39.5	2.5	3.1	0.0343	71	52
5.5	M2BAX 132 MLA	3GBA133410---DCN	971	88.0	88.2	87.5	0.70	13.5	6.8	54.3	2.6	3.2	0.0511	97	64
7.5	M2BAX 160 MLA	3GBA163410---FCN	976	89.1	89.7	89.8	0.78	16.3	7.0	73.7	1.6	2.8	0.0990	131	58
11	M2BAX 160 MLB	3GBA163420---FCN	973	90.3	91.6	91.9	0.80	23.3	7.0	108	1.6	2.7	0.1340	161	57
15	M2BAX 180 MLA	3GBA183410---FCN	968	91.2	92.0	91.8	0.78	32.4	8.5	146	2.0	3.3	0.1620	197	62
18.5	M2BAX 200 MLA	3GBA203410---FCN	975	91.7	92.5	92.3	0.78	39.6	6.1	181	1.9	2.5	0.207	208	64
22	M2BAX 200 MLB	3GBA203420---FCN	974	92.2	92.8	92.5	0.78	46.9	6.6	214	2.0	2.7	0.255	251	61
30	M2BAX 225 SMA	3GBA223210---FCN	985	92.9	93.5	93.2	0.82	60.1	7.8	289	2.7	3.0	0.592	286	63
37	M2BAX 250 SMA	3GBA253210---FCN	985	93.3	93.9	93.7	0.81	74.3	7.7	354	2.8	2.7	0.830	360	64
45	M2BAX 280 SMF	3GBA283260---FCN	989	93.7	94.1	94.2	0.83	87.9	8.0	435	2.8	2.6	1.6	524	62
55	M2BAX 280 SMG	3GBA283270---FCN	989	94.1	94.8	94.7	0.84	106	7.8	531	3.0	2.6	1.8	582	64
75	M2BAX 315 SMB	3GBA313220---MCN	993	94.6	94.9	94.5	0.85	142	6.1	720	1.6	2.3	4.1	791	75
90	M2BAX 315 SMC	3GBA313230---MCN	993	94.9	95.1	94.5	0.85	169	6.5	864	1.8	2.7	4.6	859	76
110	M2BAX 315 SMD	3GBA313240---MCN	993	95.1	95.3	94.8	0.84	209	6.6	1056	1.9	2.8	4.9	912	75
132	M2BAX 315 MLB	3GBA313420---MCN	994	95.4	95.5	94.9	0.84	250	6.4	1266	2.0	2.9	6.3	1068	72
160	M2BAX 355 SMA	3GBA353210---MCN	992	95.6	96.0	95.9	0.86	294	6.0	1538	2.2	2.3	7.9	1348	75
200	M2BAX 355 SMB	3GBA353220---MCN	992	95.8	96.2	96.2	0.83	382	6.0	1923	2.3	2.2	9.7	1512	75
250	M2BAX 355 SMC	3GBA353230---MCN	992	95.8	96.2	95.8	0.83	475	7.0	2404	2.7	2.8	11.3	1656	75

产品代码中的两个圆点表示可选的安装方式、电压及频率代码（见订购信息一页）。
 The two bullets in the product code indicate choice of mounting arrangements, voltage and frequency code (see ordering information page).

I_s / I_N = 启动电流
 T_l / T_N = 转子堵转转矩
 T_B / T_N = 最大转矩
 I_s / I_N = Starting current
 T_l / T_N = Locked rotor torque
 T_B / T_N = Breakdown torque

技术数据

Technical data

IE3

6P 400V 50Hz

三相全封闭鼠笼式电机的技术数据

Technical data for totally enclosed squirrel cage three phase motors

IP55 - IC411 绝缘等级 F, 温升等级 B

0.18-0.55kW, 符合 GB 25958-2010 的 2 级能效, 符合 IEC 60034-30-1:2014 的 IE3 效率等级

0.75-355kW, 符合 GB 18613-2012 的 2 级能效, 符合 IEC 60034-30-1:2014 的 IE3 效率等级

IP55 - IC411 Insulation class F, temperature class B

0.18-0.55kW, Grade 2 according to GB 25958-2010, IE3 according to IEC 60034-30-1:2014

0.75-355kW, Grade 2 according to GB 18613-2012, IE3 according to IEC 60034-30-1:2014

输出 Output	电机型号 Motor type	产品代码 Product code	转速 Speed	效率 / Efficiency IEC 60034-30-1:2014			功率 因数 Power factor	电流 Current		转矩 / Torque			转动惯量 Moment of inertia	重量 Weight	声压等级 Sound pressure level, L _{PA}
				满载 load 100%	3/4 负载 load 75%	1/2 负载 load 50%		I _N A	I _s /I _N	T _N Nm	T _i / T _N	T _B / T _N			
kW			r/min				cosφ						J=1/4 GD ² kgm ²	kg	dB
1000 r/min = 6 极 / 6 poles			400 V	CENELEC- 设计 design											
0.18	M2BAX 71 MB	3GBA073320--DCN	931	63.9	60.0	53.2	0.69	0.60	3.8	1.87	2.1	2.6	0.00103	10	39
0.25	M2BAX 71 MLA	3GBA073410--DCN	926	68.6	66.3	60.9	0.67	0.80	4.3	2.58	2.6	2.9	0.00140	13	46
0.37	M2BAX 80 MC	3GBA083330--DCN	939	73.5	71.5	66.7	0.66	1.09	5.6	3.80	2.8	3.2	0.00240	17	42
0.55	M2BAX 80 MLA	3GBA083410--DCN	943	77.2	75.9	71.9	0.68	1.54	6.3	5.60	3.4	3.5	0.00353	23	48
0.75	M2BAX 90 SLA	3GBA093010--DCN	952	78.9	78.0	73.9	0.59	2.35	5.3	7.52	3.1	3.6	0.00440	23	50
1.1	M2BAX 90 LB	3GBA093520--DCN	954	81.0	80.3	75.5	0.62	3.20	6.1	11.1	3.3	3.9	0.00643	30	53
1.5	M2BAX 100 LKA	3GBA103810--DCN	953	82.5	82.1	80.0	0.66	4.00	5.3	15.1	2.7	3.0	0.00975	37	48
2.2	M2BAX 112 MLA	3GBA113410--DCN	957	84.3	83.8	81.5	0.64	5.94	6.5	22.0	2.9	3.7	0.01300	46	50
3	M2BAX 132 SMA	3GBA133210--DCN	968	85.6	86.1	84.9	0.68	7.40	6.7	29.6	2.1	3.2	0.0291	65	48
4	M2BAX 132 SMB	3GBA133220--DCN	972	86.8	86.8	84.9	0.65	10.1	7.0	39.3	2.7	3.6	0.0343	71	52
5.5	M2BAX 132 MLA	3GBA133410--DCN	974	88.0	87.4	86.0	0.67	13.5	7.3	54.2	2.9	3.5	0.0511	97	65
7.5	M2BAX 160 MLA	3GBA163410--FCN	979	89.1	89.5	88.9	0.75	15.9	7.6	73.4	1.8	3.1	0.0990	131	59
11	M2BAX 160 MLB	3GBA163420--FCN	976	90.3	91.3	91.3	0.78	22.5	7.8	108	1.9	3.0	0.1340	161	57
15	M2BAX 180 MLA	3GBA183410--FCN	971	91.2	91.8	91.2	0.75	31.8	9.4	146	2.3	3.6	0.1620	197	63
18.5	M2BAX 200 MLA	3GBA203410--FCN	978	91.7	92.1	91.5	0.75	38.8	6.7	180	2.1	2.8	0.207	208	64
22	M2BAX 200 MLB	3GBA203420--FCN	978	92.2	92.5	91.8	0.75	45.9	7.3	214	2.3	3.0	0.255	251	62
30	M2BAX 225 SMA	3GBA223210--FCN	988	92.9	93.3	92.7	0.79	59.0	8.2	290	2.9	3.3	0.592	286	63
37	M2BAX 250 SMA	3GBA253210--FCN	986	93.3	93.6	93.1	0.79	72.4	8.5	353	3.3	3.0	0.830	360	64
45	M2BAX 280 SMF	3GBA283260--FCN	990	93.7	93.9	93.5	0.82	84.5	8.0	434	3.2	2.9	1.6	524	62
55	M2BAX 280 SMG	3GBA283270--FCN	989	94.1	94.5	94.2	0.82	103	8.6	531	3.4	2.9	1.8	582	64
75	M2BAX 315 SMB	3GBA313220--MCN	994	94.6	94.9	94.6	0.84	136	6.8	720	1.8	2.6	4.1	791	75
90	M2BAX 315 SMC	3GBA313230--MCN	994	94.9	95.1	94.7	0.84	164	7.2	864	2.0	3.0	4.6	859	76
110	M2BAX 315 SMD	3GBA313240--MCN	994	95.1	95.3	95.0	0.83	200	7.3	1056	2.2	3.1	4.9	912	75
132	M2BAX 315 MLB	3GBA313420--MCN	995	95.4	95.5	95.1	0.82	242	7.3	1266	2.3	3.2	6.3	1068	72
160	M2BAX 355 SMA	3GBA353210--MCN	993	95.6	95.9	95.6	0.82	292	6.7	1538	2.5	2.6	7.9	1348	75
200	M2BAX 355 SMB	3GBA353220--MCN	993	95.8	96.2	96.1	0.82	365	6.7	1923	2.6	2.5	9.7	1512	75
250	M2BAX 355 SMC	3GBA353230--MCN	993	95.8	96.1	95.8	0.81	464	7.7	2404	3.0	3.1	11.3	1656	75

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The two bullets in the product code indicate choice of mounting arrangements, voltage and frequency code (see ordering information page).

I_s / I_N = 启动电流

T_l / T_N = 转子堵转转矩

T_b / T_N = 最大转矩

I_s / I_N = Starting current

T_l / T_N = Locked rotor torque

T_b / T_N = Breakdown torque

技术数据

Technical data

IE3

8P 380V 50Hz

三相全封闭鼠笼式电机的技术数据

Technical data for totally enclosed squirrel cage three phase motors

IP55 - IC411 绝缘等级 F, 温升等级 B
0.12-200kW, 符合 IEC 60034-30-1:2014 的 IE3 效率等级
IP55 - IC411 Insulation class F, temperature class B
0.12-200kW, IE3 according to IEC 60034-30-1:2014

输出 Output	电机型号 Motor type	产品代码 Product code	转速 Speed	效率 / Efficiency IEC 60034-30-1;2014			功率 因数 Power factor	电流 Current		转矩 / Torque			转动惯量 Moment of inertia	重量 Weight	声压等级 Sound pressure level, L _{PA}
kW			r/min	满载 load 100%	3/4 负载 load 75%	1/2 负载 load 50%	cosφ	I _N A	I _s /I _N	T _N Nm	T _l / T _N	T _B / T _N	J=1/4 GD ² kgm ²	kg	dB
750 r/min = 8 极 / 8 poles			380 V	CENELEC- 设计 design											
0.12	M2BAX 71 MB	3GBA074320---DCN	682	50.7	46.4	38.1	0.6	0.60	2.7	1.68	2.0	2.4	0.0011	10	43
0.18	M2BAX 80 MA	3GBA084310---DCN	691	58.7	56.3	48.9	0.6	0.75	3.2	2.49	2.1	2.6	0.00187	15	45
0.25	M2BAX 80 MLA	3GBA084410---DCN	686	64.1	64.0	59.4	0.6	0.86	3.3	3.48	1.9	2.3	0.0042	23	40
0.37	M2BAX 90 LA	3GBA094510---DCN	709	69.3	68.0	62.6	0.6	1.31	3.6	4.98	1.8	2.2	0.0064	28	50
0.55	M2BAX 90 LB	3GBA094520---DCN	711	73.0	73.5	69.9	0.6	1.84	3.6	7.45	1.8	2.2	0.0071	29	54
0.75	M2BAX 100 LA	3GBA104510---DCN	707	75.0	74.5	70.5	0.6	2.23	3.8	10.13	1.8	2.5	0.00863	34	46
1.1	M2BAX 100 LKA	3GBA104810---DCN	700	77.7	78.8	77.0	0.7	3.03	4.6	14.92	2.0	2.6	0.0115	40	53
1.5	M2BAX 112 MLA	3GBA114410---DCN	702	79.7	80.3	78.2	0.7	3.97	3.6	20.4	2.1	2.3	0.0152	56	55
2.2	M2BAX 132 SMA	3GBA134210---DCN	720	81.9	82.0	79.2	0.7	5.75	4.6	29.19	1.8	2.4	0.0291	65	56
3	M2BAX 132 SMB	3GBA134220---DCN	713	83.5	85.4	85.2	0.7	7.69	4.6	39.92	1.6	2.3	0.0361	71	56
4	M2BAX 160 MLA	3GBA164410---FCN	735	84.8	85.9	84.9	0.7	10.1	5.0	51.95	1.8	2.3	0.0811	129	54
5.5	M2BAX 160 MLB	3GBA164420---FCN	732	86.2	87.7	87.5	0.7	13.5	4.8	71.75	1.7	2.1	0.0931	139	54
7.5	M2BAX 160 MLC	3GBA164430---FCN	731	87.3	88.7	88.7	0.7	18.4	4.8	97.91	1.7	2.1	0.108	131	54
11	M2BAX 180 MLA	3GBA184410---FCN	729	88.6	89.4	88.8	0.7	25.5	4.4	144.06	1.4	2.2	0.221	188	62
15	M2BAX 200 MLA	3GBA204410---FCN	729	89.6	90.7	90.3	0.7	34.7	3.5	196.41	1.5	1.6	0.272	269	58
18.5	M2BAX 225 SMA	3GBA224210---FCN	737	90.1	90.6	89.8	0.7	40.6	4.9	239.81	1.6	2.3	0.527	244	63
22	M2BAX 225 SMB	3GBA224220---FCN	737	90.6	90.9	90.0	0.7	49.2	5.1	284.98	1.8	2.4	0.592	260	63
30	M2BAX 250 SMA	3GBA254210---FCN	737	91.3	91.9	91.5	0.7	66.6	5.2	388.65	2.2	2.4	0.958	369	63
37	M2BAX 280 SMA	3GBA284210---FCN	737	91.8	92.8	93.0	0.7	80.2	4.4	479	1.8	1.9	1.6	524	64
45	M2BAX 280 SMB	3GBA284220---FCN	737	92.2	93.1	93.2	0.7	97.6	4.5	583	1.9	2.0	1.8	563	64
55	M2BAX 315 SMA	3GBA314210---MCN	742	92.5	93.0	92.4	0.8	112	6.5	708	1.4	2.4	3.2	830	62
75	M2BAX 315 SMB	3GBA314220---MCN	740	93.1	93.7	93.4	0.8	153	6.6	968	1.5	2.4	4.1	930	62
90	M2BAX 315 SMC	3GBA314230---MCN	740	93.4	94.1	93.8	0.8	179	6.8	1161	1.6	2.4	4.9	1000	64
110	M2BAX 315 MLA	3GBA314410---MCN	739	93.7	94.3	94.2	0.8	220	6.7	1422	1.6	2.4	5.8	1150	72
132	M2BAX 355 SMA	3GBA354210---MCN	743	94.0	94.3	93.7	0.7	270	6.8	1697	1.3	2.3	7.9	1520	69
160	M2BAX 355 SMB	3GBA354220---MCN	743	94.3	94.7	94.1	0.7	326	6.9	2057	1.4	2.2	9.7	1680	69
200	M2BAX 355 SMC	3GBA354230---MCN	741	94.6	94.9	94.6	0.8	397	6.7	2578	1.4	2.2	11.3	1820	69

产品代码中的两个圆点表示可选的安装方式、电压及频率代码（见订购信息一页）。

The two bullets in the product code indicate choice of mounting arrangements, voltage and frequency code (see ordering information page).

I_s / I_N = 启动电流

T_l / T_N = 转子堵转转矩

T_b / T_N = 最大转矩

I_s / I_N = Starting current

T_l / T_N = Locked rotor torque

T_b / T_N = Breakdown torque

技术数据

Technical data

IE3

8P 400V 50Hz

三相全封闭鼠笼式电机的技术数据

Technical data for totally enclosed squirrel cage three phase motors

IP55 - IC411 绝缘等级 F, 温升等级 B
0.12-200kW, 符合 IEC 60034-30-1:2014 的 IE3 效率等级
IP55 - IC411 Insulation class F, temperature class B
0.12-200kW, IE3 according to IEC 60034-30-1:2014

输出 Output	电机型号 Motor type	产品代码 Product code	转速 Speed	效率 / Efficiency IEC 60034-30-1:2014			功率 因数 Power factor	电流 Current		转矩 / Torque			转动惯量 Moment of inertia	重量 Weight	声压等级 Sound pressure level, L _{PA}
kW			r/min	满载 load 100%	3/4 负载 load 75%	1/2 负载 load 50%	cosφ	I _N A	I _s /I _N	T _N Nm	T _i / T _N	T _B / T _N	J=1/4 GD ² kgm ²	kg	dB
750 r/min = 8 极 / 8 poles			400 V			CENELEC- 设计 design									
0.12	M2BAX 71 MB	3GBA074320---DCN	690	50.7	45.7	37.3	0.5	0.61	2.8	1.66	2.3	2.6	0.0011	10	43
0.18	M2BAX 80 MA	3GBA084310---DCN	698	58.7	55.1	46.8	0.5	0.76	3.4	2.46	2.4	2.9	0.00187	15	45
0.25	M2BAX 80 MLA	3GBA084410---DCN	694	64.1	62.8	56.8	0.6	0.88	3.4	3.44	2.2	2.6	0.0042	23	41
0.37	M2BAX 90 LA	3GBA094510---DCN	714	69.3	67.1	60.9	0.5	1.33	4.0	4.95	2.0	2.5	0.0064	28	50
0.55	M2BAX 90 LB	3GBA094520---DCN	717	73.0	72.3	67.5	0.5	1.84	3.7	7.39	2.0	2.5	0.0071	29	54
0.75	M2BAX 100 LA	3GBA104510---DCN	712	75.0	73.6	68.6	0.6	2.26	4.0	10.06	2.0	2.7	0.00863	34	46
1.1	M2BAX 100 LKA	3GBA104810---DCN	705	77.7	78.1	75.1	0.6	3.05	4.6	14.8	2.2	2.9	0.0115	40	53
1.5	M2BAX 112 SMA	3GBA114410---DCN	708	79.7	79.6	76.6	0.6	3.99	3.9	20.24	2.4	2.5	0.0152	56	55
2.2	M2BAX 132 MLA	3GBA134210---DCN	723	81.9	81.2	77.6	0.6	5.70	4.9	29.05	1.9	2.6	0.0291	65	56
3	M2BAX 132 SMB	3GBA134220---DCN	721	83.5	84.6	83.6	0.6	7.74	4.6	39.72	1.7	2.6	0.0361	71	56
4	M2BAX 160 MLA	3GBA164410---FCN	737	84.8	84.2	82.0	0.6	10.2	5.2	51.84	2.0	2.5	0.0811	129	55
5.5	M2BAX 160 MLB	3GBA164420---FCN	734	86.2	87.1	85.8	0.6	13.3	4.9	71.55	1.9	2.4	0.0931	139	55
7.5	M2BAX 160 MLC	3GBA164430---FCN	734	87.3	88.1	87.2	0.6	18.2	5.0	97.64	1.9	2.4	0.108	131	55
11	M2BAX 180 MLA	3GBA184410---FCN	732	88.6	88.9	87.7	0.7	25.4	4.7	143.59	1.6	2.4	0.221	188	62
15	M2BAX 200 MLA	3GBA204410---FCN	732	89.6	90.2	89.4	0.7	33.1	4.0	195.67	1.7	1.8	0.272	269	58
18.5	M2BAX 225 SMA	3GBA224210---FCN	738	90.1	90.2	88.9	0.7	40.1	5.3	239.33	1.8	2.5	0.527	244	63
22	M2BAX 225 SMB	3GBA224220---FCN	739	90.6	90.6	89.1	0.7	49.0	5.5	284.44	2.0	2.6	0.592	260	63
30	M2BAX 250 SMA	3GBA254210---FCN	739	91.3	91.7	90.9	0.7	66.1	5.7	387.89	2.5	2.7	0.958	369	63
37	M2BAX 280 SMA	3GBA284210---FCN	739	91.8	92.5	92.3	0.7	77.5	4.9	478	2.0	2.1	1.6	524	64
45	M2BAX 280 SMB	3GBA284220---FCN	739	92.2	92.8	92.6	0.7	93.9	5.0	582	2.2	2.2	1.8	563	64
55	M2BAX 315 SMA	3GBA314210---MCN	742	92.5	93.1	92.5	0.8	107	7.1	708	1.6	2.7	3.2	830	62
75	M2BAX 315 SMB	3GBA314220---MCN	741	93.1	93.2	93.1	0.7	147	7.1	967	1.7	2.7	4.1	930	62
90	M2BAX 315 SMC	3GBA314230---MCN	741	93.4	93.7	93.4	0.8	172	7.4	1160	1.8	2.7	4.9	1000	64
110	M2BAX 315 MLA	3GBA314410---MCN	740	93.7	94.0	94.1	0.8	212	7.3	1420	1.8	2.7	5.8	1150	72
132	M2BAX 355 SMA	3GBA354210---MCN	744	94.0	93.9	93.4	0.7	263	7.9	1694	1.5	2.6	7.9	1520	69
160	M2BAX 355 SMB	3GBA354220---MCN	744	94.3	94.3	93.8	0.7	318	7.6	2054	1.6	2.6	9.7	1680	69
200	M2BAX 355 SMC	3GBA354230---MCN	742	94.6	95.1	94.8	0.8	381	7.4	2574	1.6	2.6	11.3	1820	69

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I_s / I_N = 启动电流
T_i / T_N = 转子堵转转矩
T_b / T_N = 最大转矩

I_s / I_N = Starting current
T_i / T_N = Locked rotor torque
T_b / T_N = Breakdown torque

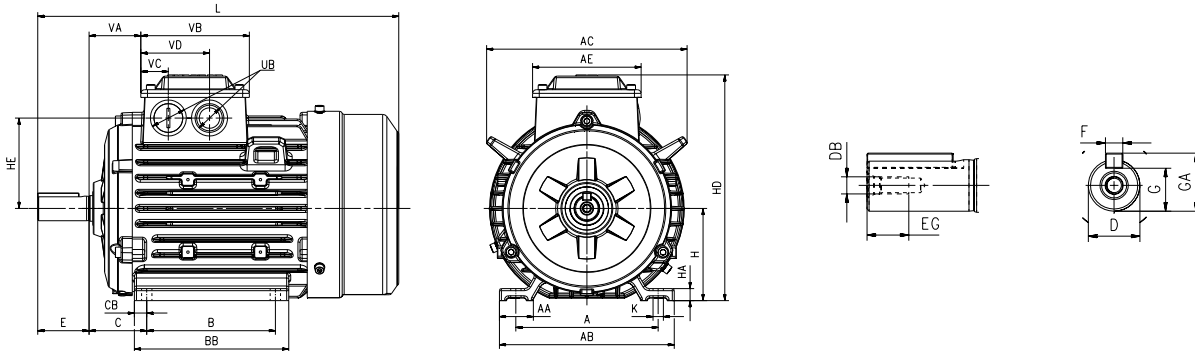
外形图及外形尺寸

Dimension drawings

机座号 71-132

Frame size 71-132

底脚安装型电机 IM1001, B3
Foot-mounted motor IM1001, B3



电机尺寸 Motor size		A	AA	AB	AC	AE	B	B'	BB	C	CB	D-tol.	DB	E	EG
M2BAX	71M	112	30	136	147	96	90	-	110	45	10	14-j6	M5	30	12.5
	71ML	112	30	136	147	96	90	-	135	45	10	14-j6	M5	30	12.5
	80M	125	33	154	161	106	100	-	125	50	12.5	19-j6	M6	40	16
	80ML	125	33	154	161	106	100	112	150	50	12.5	19-j6	M6	40	16
	90S	140	33	170	195	106	100	-	124	56	12	24-j6	M8	50	19
	90SL	140	33	170	195	106	100	125	150	56	12	24-j6	M8	50	19
	90L ¹⁾	140	33	170	195	106	125	-	150	56	12	24-j6	M8	50	19
	90L ²⁾	140	33	170	195	106	125	-	185	56	12	24-j6	M8	50	19
	100L	160	38	200	218	122	140	-	170	63	15	28-j6	M10	60	22
	100LK	160	38	200	218	122	140	160	205	63	15	28-j6	M10	60	22
	112M	190	48	230	218	122	140	-	170	70	15	28-j6	M10	60	22
	112ML	190	48	230	218	122	140	159	215	70	15	28-j6	M10	60	22
	132S	216	53	262	270	122	140	-	170	89	16	38-k6	M12	80	28
	132SM	216	53	262	270	122	140	178	210	89	16	38-k6	M12	80	28
	132M	216	53	262	270	122	178	-	210	89	16	38-k6	M12	80	28
	132ML	216	53	262	270	122	178	203	275	89	16	38-k6	M12	80	28

电机尺寸 Motor size		F	G	GA	H	HA	HE	HD	K	L	UB	VA	VB	VC	VD
M2BAX	71M	5	11	16	71	9	65	175	7	257	M16x1.5	40	96	32	64
	71ML	5	11	16	71	9	65	175	7	282	M16x1.5	40	96	32	64
	80M	6	15.5	21.5	80	12	72	192	10	309	M25x1.5	43	106	33	73
	80ML	6	15.5	21.5	80	12	72	192	10	334	M25x1.5	43	106	33	73
	90S	8	20	27	90	12	88	217	10	335	M25x1.5	50	106	33	73
	90SL	8	20	27	90	12	88	217	10	351	M25x1.5	50	106	33	73
	90L ¹⁾	8	20	27	90	12	88	217	10	351	M25x1.5	50	106	33	73
	90L ²⁾	8	20	27	90	12	88	217	10	386	M25x1.5	50	106	33	73
	100L	8	24	31	100	15	100	240	12	376	M32x1.5	55	122	37	84
	100LK	8	24	31	100	15	100	240	12	411	M32x1.5	55	122	37	84
	112M	8	24	31	112	15	100	252	12	411	M32x1.5	55	122	37	84
	112ML	8	24	31	112	15	100	252	12	456	M32x1.5	55	122	37	84
	132S	10	33	41	132	18	129	302	12	479	M32x1.5	65	122	37	84
	132SM	10	33	41	132	18	129	302	12	521	M32x1.5	65	122	37	84
	132M	10	33	41	132	18	129	302	12	521	M32x1.5	65	122	37	84
	132ML	10	33	41	132	18	129	302	12	586	M32x1.5	65	122	37	84

公差 Tolerance	附注 Footnotes
A, B ± 0.8	¹⁾ M2BAX IE2
D ISO j6 ≤ φ28 mm ISO k6 ≤ φ38 mm	²⁾ M2BAX IE3
F ISO h9	
H +0, -0.5	
N ISO j6	
C ± 0.8	

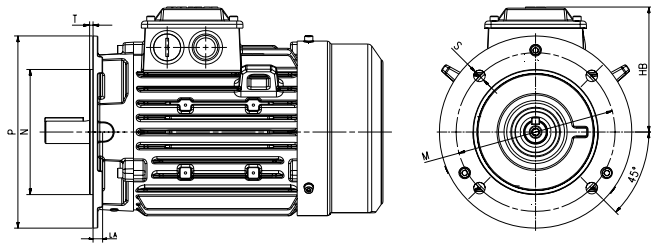
上表给出了主要尺寸 (单位: mm)
如需图纸详情, 请访问我们的网页
www.abb.com/motors&generators 或联系 ABB。

Above table gives the main dimensions in mm.
For detailed drawings please see our web-pages
www.abb.com/motors&generators or contact ABB.

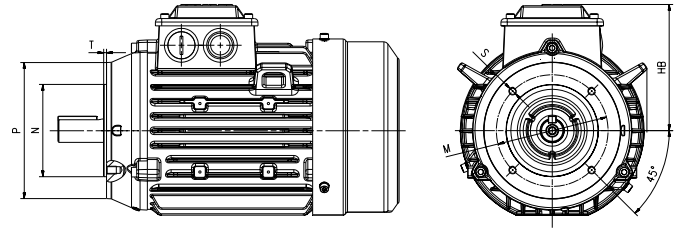
外形图及外形尺寸 Dimension drawings

机座号 71-132 Frame size 71-132

凸缘安装型电机 IM3001, B5
Flange-mounted motor IM3001, B5



小凸缘安装型电机 IM3601, B14
Small flange-mounted motor IM3601, B14



电机尺寸 Motor size	HB	LA	M	N	P	S	T
M2BAX 71M	104	9	130	110	160	10	3.5
71ML	104	9	130	110	160	10	3.5
80M	112	10	165	130	200	12	3.5
80ML	112	10	165	130	200	12	3.5
90S	127	10	165	130	200	12	3.5
90SL	127	10	165	130	200	12	3.5
90L ¹⁾	127	10	165	130	200	12	3.5
90L ²⁾	127	10	165	130	200	12	3.5
100L	141	11	215	180	250	14.5	4
100LK	141	11	215	180	250	14.5	4
112M	141	11	215	180	250	14.5	4
112ML	141	11	215	180	250	14.5	4
132S	170	12	265	230	300	14.5	4
132SM	170	12	265	230	300	14.5	4
132M	170	12	265	230	300	14.5	4
132ML	170	12	265	230	300	14.5	4

电机尺寸 Motor size	M	N	P	S	T
M2BAX 71M	85	70	105	M6	2.5
71ML	85	70	105	M6	2.5
80M	100	80	120	M6	3
80ML	100	80	120	M6	3
90S	115	95	140	M8	3
90SL	115	95	140	M8	3
90L ¹⁾	115	95	140	M8	3
90L ²⁾	115	95	140	M8	3
100L	130	110	160	M8	3.5
100LK	130	110	160	M8	3.5
112M	130	110	160	M8	3.5
112ML	130	110	160	M8	3.5
132S	165	130	200	M10	3.5
132SM	165	130	200	M10	3.5
132M	165	130	200	M10	3.5
132ML	165	130	200	M10	3.5

公差 Tolerance	附注 Footnotes
A, B ± 0.8	¹⁾ M2BAX IE2
D ISO j6 ≤ φ28 mm ISO k6 ≤ φ38 mm	²⁾ M2BAX IE3
F ISO h9	
H +0, -0.5	
N ISO j6	
C ± 0.8	

上表给出了主要尺寸（单位：mm）
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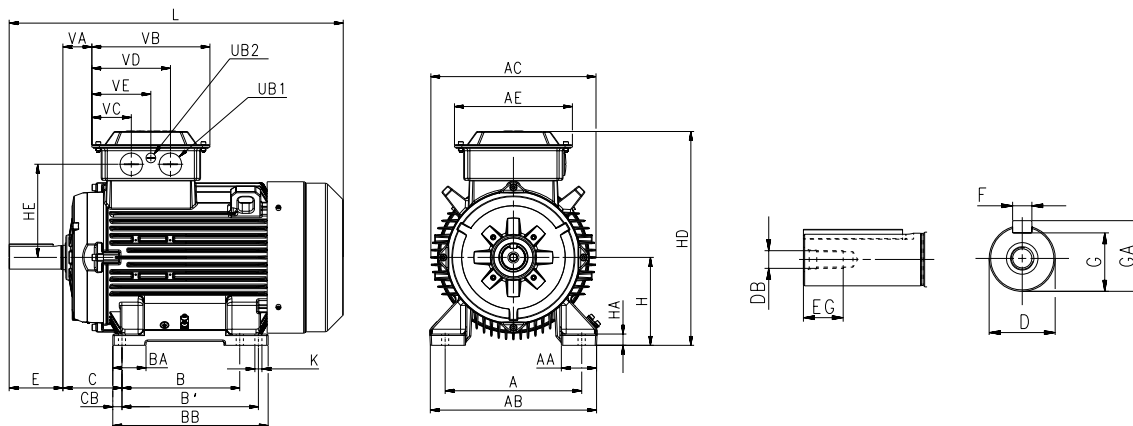
外形图及外形尺寸

Dimension drawings

机座号 160-250

Frame size 160-250

底脚安装型电机 IM1001, B3
Foot-mounted motor IM1001, B3



电机尺寸 Motor size	极数 Poles	A	AA	AB	AC	AE	B	B'	BA	BB	C	CB	D-tol.	DB	E	EG
M2BAX 160ML ¹⁾	2-8	254	67	310	338	241	210	254	69	294	108	20	42-k6	M16	110	36
160ML ²⁾	2-8	254	67	310	338	241	210	254	69	294	108	20	42-k6	M16	110	36
160ML ³⁾	2-8	254	67	310	338	241	210	254	69	294	108	20	42-k6	M16	110	36
180ML ⁴⁾	2-8	279	72	340	338	241	241	279	68	318	121	19	48-k6	M16	110	36
180ML ⁵⁾	2-8	279	72	340	338	241	241	279	68	378	121	19	48-k6	M16	110	36
200ML ⁶⁾	2-8	318	77	378	382	241	267	305	82	345	133	20	55-m6	M20	110	42
200ML ⁷⁾	2-8	318	77	378	382	241	267	305	82	445	133	20	55-m6	M20	110	42
225SM	2	356	91	435	414	262	286	311	69	351	149	20	55-m6	M20	110	42
225SM	4-8	356	91	435	414	262	286	311	69	351	149	20	60-m6	M20	140	42
250SM	2	406	98	480	462	262	311	349	72	392	168	22	60-m6	M20	140	42
250SM ⁸⁾	4-8	406	98	480	462	262	311	349	72	392	168	22	65-m6	M20	140	42
250SM ⁹⁾	4-8	406	98	480	462	262	311	349	72	437	168	22	65-m6	M20	140	42

电机尺寸 Motor size	极数 Poles	F	G	GA	H	HA	HD	HE	K	L	UB1	UB2	VA	VB	VC	VD	VE
M2BAX 160ML ¹⁾	2-6	12	37	45	160	23	413	188	14.5	586.5	M40x1.5	M16x1.5	59	241	81	161	120.5
160ML ²⁾	2-6	12	37	45	160	23	413	188	14.5	626.5	M40x1.5	M16x1.5	59	241	81	161	120.5
160ML ³⁾	2-6	12	37	45	160	23	413	188	14.5	683.5	M40x1.5	M16x1.5	59	241	81	161	120.5
180ML ⁴⁾	2-6	14	42.5	51.5	180	23	434	188	14.5	683.5	M40x1.5	M16x1.5	59	241	81	161	120.5
180ML ⁵⁾	2-6	14	42.5	51.5	180	23	434	188	14.5	743.5	M40x1.5	M16x1.5	59	241	81	161	120.5
200ML ⁶⁾	2-6	16	49	59	200	23	473	208	18.5	728	M40x1.5	M16x1.5	70	241	81	161	120.5
200ML ⁷⁾	2-6	16	49	59	200	23	473	208	18.5	828	M40x1.5	M16x1.6	70	241	81	161	120.5
225SM	2	16	49	59	225	23	539	228	18.5	824	M63x1.5	M16x1.7	79	262	83	179	131
225SM	4-6	18	53	64	225	23	539	228	18.5	854	M63x1.5	M16x1.8	79	262	83	179	131
250SM	2	18	53	64	250	23	585	248	24	882	M63x1.5	M16x1.9	72	262	83	179	131
250SM ⁸⁾	4-6	18	58	69	250	23	585	248	24	882	M63x1.5	M16x1.5	72	262	83	179	131
250SM ⁹⁾	4-6	18	58	69	250	23	585	248	24	927	M63x1.5	M16x1.5	72	262	83	179	131

公差 Tolerance	附注 Footnotes
A, B ± 0.8	M2BAX IE2:
D ISO k6 ≤ φ50 mm	¹⁾ MLB6 以外其余型号
ISO m6 ≤ φ50 mm	All types except MLB6
F ISO h9	²⁾ MLB6
H +0, -0.5	⁴⁾ 所有型号 All types
N ISO j6	⁶⁾ 所有型号 All types
C ± 0.8	⁸⁾ 所有型号 All types
	M2BAX IE3:
	¹⁾ MLA2, MLB2, MLA8, MLB8
	²⁾ MLA4, MLA6, MLC8
	³⁾ MLC2, MLB4, MLB6
	⁴⁾ MLA2, MLA4
	⁵⁾ MLB4, MLA6, MLA8
	⁶⁾ MLA6
	⁷⁾ MLA6 以外其余型号
	All types except MLA6
	⁹⁾ 所有型号 All types

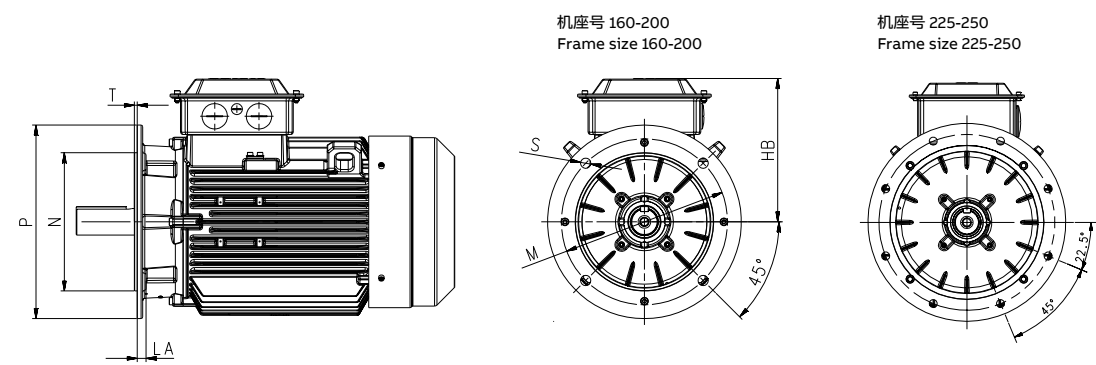
上表给出了主要尺寸（单位：mm）
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外形图及外形尺寸
Dimension drawings

机座号 160-250
Frame size 160-250

凸缘安装型电机 IM3001, B5
Flange-mounted motor IM3001, B5



电机尺寸 Motor size		极数 Poles	HB	LA	M	N	P	S	T
M2BAX	160ML ¹⁾	2-8	253	16	300	250	350	18.5	5
	160ML ²⁾	2-8	253	16	300	250	350	18.5	5
	160ML ³⁾	2-8	253	16	300	250	350	18.5	5
	180ML ⁴⁾	2-8	253	16	300	250	350	18.5	5
	180ML ⁵⁾	2-8	253	16	300	250	350	18.5	5
	200ML ⁶⁾	2-8	273	18	350	300	400	18.5	5
	200ML ⁷⁾	2-8	273	18	350	300	400	18.5	5
	225SM	2	314	20	400	350	450	18.5	5
	225SM	4-8	314	20	400	350	450	18.5	5
	250SM	2	334	22	500	450	550	18.5	5
	250SM ⁸⁾	4-8	334	22	500	450	550	18.5	5
250SM ⁹⁾	4-8	334	22	500	450	550	18.5	5	

公差 Tolerance	附注 Footnotes
A, B ± 0.8	M2BAX IE2:
D ISO k6 ≤ φ50 mm	¹⁾ MLB6 以外其余型号 All types except MLB6
F ISO h9	²⁾ MLB6
H +0, -0.5	⁴⁾ 所有型号 All types
N ISO j6	⁶⁾ 所有型号 All types
C ± 0.8	⁸⁾ 所有型号 All types
	M2BAX IE3:
	¹⁾ MLA2, MLB2, MLA8, MLB8
	²⁾ MLA4, MLA6, MLC8
	³⁾ MLC2, MLB4, MLB6
	⁴⁾ MLA2, MLA4
	⁵⁾ MLB4, MLA6, MLA8
	⁶⁾ MLA6
	⁷⁾ MLA6 以外其余型号 All types except MLA6
	⁹⁾ 所有型号 All types

上表给出了主要尺寸（单位：mm）
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Above table gives the main dimensions in mm.
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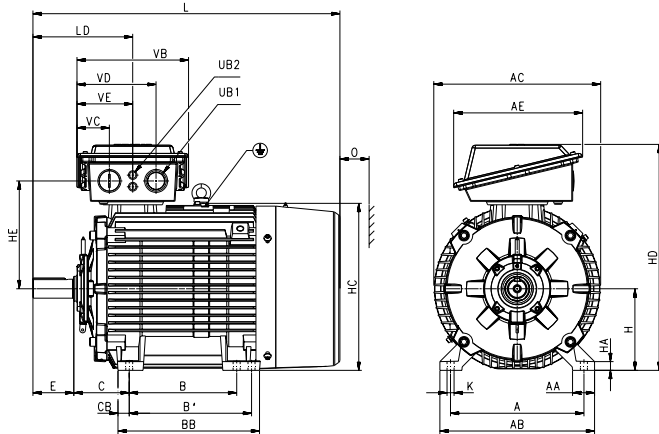
外形图及外形尺寸

Dimension drawings

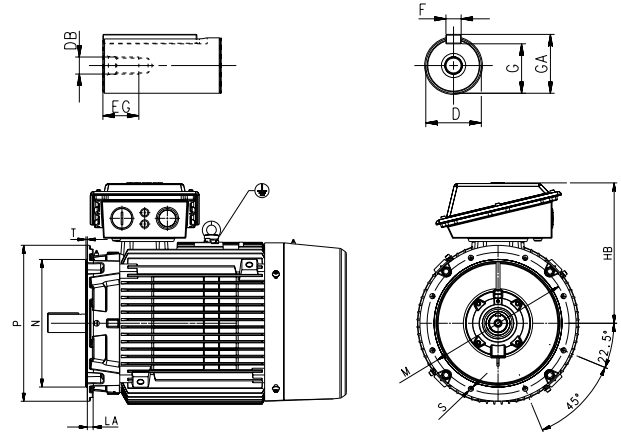
机座号 280-355

Frame size 280-355

底脚安装型电机 IM1001, B3
Foot-mounted motor IM1001, B3



凸缘安装型电机 IM3001, B5
Flange-mounted motor IM3001, B5



电机尺寸 Motor size	极数 Poles	A	AA	AB	AC	AE	B	B'	BB	C	CB	D-tol.	DB	E	EG	F	G
M2BAX 280SM	2	457	75	530	494	355	368	419	485	190	38	65-m6	M20	140	42	18	58
280SM	4-8	457	75	530	494	355	368	419	485	190	38	75-m6	M20	140	42	20	67.5
315SM	2	508	100	590	644	442	406	457	563	216	52	65-m6	M20	140	42	18	58
315SM	4-8	508	100	590	644	442	406	457	563	216	52	80-m6	M20	170	42	22	71
315ML	2	508	100	590	644	442	457	508	664	216	52	65-m6	M20	140	42	18	58
315ML	4-8	508	100	590	644	442	457	508	664	216	52	90-m6	M24	170	50	25	81
315SM ¹⁾	2	508	100	590	590	442	406	457	602	216	62.5	65-m6	M20	140	42	18	58
315SM ¹⁾	4	508	100	590	590	442	406	457	602	216	62.5	80-m6	M20	170	42	22	71
355SM	2	610	120	700	739	493	500	560	698	254	72	70-m6	M20	140	42	20	62.5
355SM	4-8	610	120	700	739	493	500	560	698	254	72	100-m6	M24	210	50	28	90

电机尺寸 Motor size	极数 Poles	GA	H	HA	HC	HD	HE	K	L	LD	O	UB1	UB2	VB	VC	VD	VE
M2BAX 280SM	2	69	280	30	544	710	319	24	1012	346	100	M63x1.5	M20x1.5	307	91	215	153.5
280SM	4-8	79.5	280	30	544	710	319	24	1012	346	100	M63x1.5	M20x1.5	307	91	215	153.5
315SM	2	69	315	38	638	849	409	28	1216	348	115	M63x1.5	M20x1.5	383	111	271	191.5
315SM	4-8	85	315	38	638	849	409	28	1246	378	115	M63x1.5	M20x1.5	383	111	271	191.5
315ML	2	69	315	38	638	849	409	28	1326	348	115	M63x1.5	M20x1.5	383	111	271	191.5
315ML	4-8	95	315	38	638	849	409	28	1356	378	115	M63x1.5	M20x1.5	383	111	271	191.5
315SM ¹⁾	2	69	315	38	608	848	406	28	1210	338	115	M63x1.5	M20x1.5	383	111	271	191
315SM ¹⁾	4	85	315	38	608	848	406	28	1240	368	115	M63x1.5	M20x1.5	383	111	271	191
355SM	2	74.5	355	41	725	933	462	35	1399	399	130	M75x1.5	M20x1.5	382	111	271	191.5
355SM	4-8	106	355	41	725	933	462	35	1469	469	130	M75x1.5	M20x1.5	382	111	271	191.5

电机尺寸 Motor size	极数 Poles	HB	LA	M	N	P	S	T
M2BAX 280SM	2-8	430	21	500	450	550	18.5	5
315	2-8	534	27	600	550	660	24	6
315SM ¹⁾	2-4	533	27.8	600	550	660	24	6
355	2-8	578	22	740	680	800	24	6

公差 Tolerance

A, B	± 0.8
D	ISO k6 ≤ φ50 mm ISO m6 ≤ φ50 mm
F	ISO h9
H	+0, -1
N	ISO j6
C	± 0.8

附注 Footnotes

M2BAX IE2:
¹⁾ 产品族代码: H

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变量代码

Variant codes

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变量代码	描 述	M2BAX													
Variant code	Description	71	80	90	100	112	132	160	180	200	225	250	280	315	355
管理															
Management															
530	正常质保期延长 2 年 Two-year extension on standard warranty	●	●	●	●	●	●	●	●	●	●	●	●	●	●
865	延长一年质保 One-year extension on standard warranty	●	●	●	●	●	●	●	●	●	●	●	●	●	●
行业标准设计															
Branch standard designs															
178	不锈钢 / 耐酸螺栓 Stainless steel / acid proof bolts	●	●	●	●	●	●	●	●	●	●	●	●	●	●
209	非标电压或频率 (特殊绕组) Non-standard voltage or frequency, (special winding).	●	●	●	●	●	●	●	●	●	●	●	●	●	●
396	用于环温 -20 ° C~-40 ° C 的电机 , 有加热带 (必须添加代码 450/451) Motor designed for minimum ambient temperature -20 ° C to -40 ° C, with space heaters (code 450/451 must be added)	●	●	●	●	●	●	●	●	●	●	●	●	●	●
425	防腐蚀定子和转子 Corrosion protected stator and rotor core	●	●	●	●	●	●	●	●	●	●	●	●	●	●
平衡校验															
Balancing															
417	B 级振动 (IEC 60034-14) Vibration acc. to Grade B (IEC 60034-14)	●	●	●	●	●	●	●	●	●	●	●	●	●	●
尺寸图纸															
Dimension															
141	配二维主要尺寸图 Binding 2D main dimension drawing	●	●	●	●	●	●	●	●	●	●	●	●	●	●
加热元件															
Heating elements															
450	加热带 , 100-120V Heating element, 100-120V	●	●	●	●	●	●	●	●	●	●	●	●	●	●
451	加热带 , 200-240V Heating element, 200 - 240V	●	●	●	●	●	●	●	●	●	●	●	●	●	●
安装方式															
Mounting arrangements															
008	IM 2101 底脚 / 法兰安装 ,IEC 法兰 , 由 IM 1001 派生 (B3 派生出 B34) IM 2101 foot/flange mounted, IEC flange, from IM 1001 (B34 from B3)	●	●	●	●	●	●	-	-	-	-	-	-	-	-
009	IM 2001 底脚 / 法兰安装 ,IEC 法兰 , 由 IM 1001 派生 (B3 派生出 B35) IM 2001 foot/flange mounted, IEC flange, from IM 1001 (B35 from B3)	●	●	●	●	●	●	●	●	●	●	●	●	●	●
047	IM 3601 法兰安装 ,IEC 法兰 , 由 IM 3001 派生 (B5 派生出 B14) IM 3601 flange mounted, IEC flange, from IM 3001 (B14 from B5)	●	●	●	●	●	●	-	-	-	-	-	-	-	-
066	非标安装方式 (请指定 IM xxxx) (除 B3(1001),B5(3001), 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 (2101)	●	●	●	●	●	●	●	●	●	●	●	●	●	●
320	IM2001 底脚 / 缺边法兰安装 , 由 IM1001 派生 (B3 派生出 B35) IM2001 foot/flat bottom flange mounted, from IM1001 (B35 flat bottom flange from B3)	●	●	●	●	●	●	●	-	-	-	-	-	-	-
584	加强型铸件 , 牌号升一档 Cast iron material with increased tensile strenght	●	●	●	●	●	●	●	●	●	●	●	●	●	●

○ 标配 | ● 可选 | - 不适用
○ = Included as standard | ● = Available as option | - = Not applicable

变量代码

Variant codes

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变量代码	描 述	M2BAX													
Variant code	Description	71	80	90	100	112	132	160	180	200	225	250	280	315	355
接地螺栓															
Earthing Bolt															
067	外部接地螺栓 External earthing bolt	○	○	○	○	○	○	○	○	○	○	○	○	○	○
变速驱动器															
Variable speed drives															
701	N 端绝缘轴承 Insulated bearing at N-end	-	-	-	-	-	-	-	-	-	-	-	●	●	●
704	EMC 电缆密封管 EMC cable entry	●	●	●	●	●	●	●	●	●	●	●	●	●	●
绝缘系统															
Insulation system															
014	H 级绝缘绕组 Winding insulation class H	●	●	●	●	●	●	●	●	●	●	●	●	●	●
405	用于变频电源的特殊绕组绝缘 Special winding insulation for frequency converter supply	●	●	●	●	●	●	●	●	●	●	●	●	●	●
喷漆															
Painting															
114	特殊油漆颜色，标准等级 Special paint color, standard grade	●	●	●	●	●	●	●	●	●	●	●	●	●	●
646	特殊油漆颜色 Special paint colour	●	●	●	●	●	●	●	●	●	●	●	●	●	●
115	C4M 喷漆系统，根据 ISO 12944-5:2007 C4M Painting system acc. to ISO 12944-5:2007	●	●	●	●	●	●	●	●	●	●	●	●	●	●
754	C5M 喷漆系统，根据 ISO 12944-5:2007 C5M Painting system acc. to ISO 12944-5:2007	●	●	●	●	●	●	●	●	●	●	●	●	●	●
防护															
Protection															
005	防护罩，立式电机，轴伸向下 Protective roof	●	●	●	●	●	●	●	●	●	●	●	●	●	●
072	D 端径向密封，不适用于 280,315 的 2 极电机 Radial seal at D-end. Not possible for 2-pole , 280 and 315 frames	●	●	●	●	●	●	●	●	●	●	●	●	●	-
158	防护等级 IP65 Degree of protection IP65	●	●	●	●	●	●	●	●	●	●	●	●	●	●
373	接线盒防护等级 IP56 Terminal box degree of protection IP56	●	●	●	●	●	●	●	●	●	●	●	●	●	●
383	WF1 户外防中等腐蚀 Outdoor medium anti-corrosion WF1	●	●	●	●	●	●	●	●	●	●	●	●	●	●
403	防护等级 IP56 Degree of protection IP56	●	●	●	●	●	●	●	●	●	●	●	●	●	●
784	D 端伽马密封 Gamma-seal at D-end	●	●	●	●	●	●	●	●	●	●	●	●	●	●
250	防护等级 IP66 Degree of protection IP66	●	●	●	●	●	●	●	●	●	●	●	●	●	●
铭牌和指示牌															
Rating & instruction plates															
002	重敲铭牌电压、频率、输出、连续工作制 Restamping voltage, frequency and output, continuous duty	●	●	●	●	●	●	●	●	●	●	●	●	●	●

○ 标配 | ● 可选 | - 不适用
○ = Included as standard | ● = Available as option | - = Not applicable

变量代码

Variant codes

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Most of the variant codes apply to IE2 and IE3 motors. For details please contact you ABB sales office before making an order.

变量代码 Variant code	描述 Description	M2BAX													
		71	80	90	100	112	132	160	180	200	225	250	280	315	355
095	重敲输出 (持续电压、频率)、间歇工作制 Restamping output (maintained voltage, frequency), intermittent duty	●	●	●	●	●	●	●	●	●	●	●	●	●	●
135	安装额外不锈钢指示牌 Mounting of additional identification plate, stainless	●	●	●	●	●	●	●	●	●	●	●	●	●	●
159	额外带铭牌“Made in…” Additional plate with text "Made in"	●	●	●	●	●	●	●	●	●	●	●	●	●	●
163	变频铭牌 . 铭牌数据根据报价单 Frequency converter rating plate. Rating data according to quotation	●	●	●	●	●	●	●	●	●	●	●	●	●	●
轴和转子 Shaft and rotor															
069	根据基本目录的双伸轴 Two shaft extensions according to catalog drawings	●	●	●	●	●	●	●	●	●	●	●	●	●	●
070	D 端特殊轴伸, 标准材料 Special shaft extension at D-End, standard shaft material	●	●	●	●	●	●	●	●	●	●	●	●	●	●
164	闭口键槽轴伸 Shaft extension with closed keyway	●	●	●	●	●	●	●	●	●	●	●	●	●	●
410	不锈钢轴 (标准或非标设计, 2 极电机不适用) Shaft material stainless steel	●	●	●	●	●	●	●	●	●	●	●	●	●	●
600	N 端特殊轴伸, 标准材料 Special shaft extension at N-end, standard shaft material	●	●	●	●	●	●	●	●	●	●	●	●	●	●
631	调质 Quenched and tempered shaft material	●	●	●	●	●	●	●	●	●	●	●	●	●	●
标准和规范 Standards and regulations															
538	CE 标识 CE mark	●	●	●	●	●	●	●	●	●	●	●	●	●	●
540	中国能源标志 China energy label	○	○	○	○	○	○	○	○	○	○	○	○	○	○
定子绕组温度传感器 Stator winding temperature sensors															
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	●	●	●	●	●	●	●	●	●	●	●	●	●	●
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	●	●	●	●	●	●	●	●	●	●	●	●	●	●
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	●	●	●	●	●	●	●	●	●	●	●	●	●	●
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	●	●	●	●	●	●	●	●	●	●	●	○	○	○
439	定子绕组安装 PTC- 热敏电阻 (2×3 个串联), 150 ° C PTC - thermistors (2x3 in series), 150 ° C, in stator winding	-	●	●	●	●	●	●	●	●	●	●	●	●	●
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	●	●	●	●	●	●	●	●	●	●	●	●	●	●
445	定子绕组安装 Pt100(2 线), 每相 1 个 Pt100 2-wire in stator winding, 1 per phase	●	●	●	●	●	●	●	●	●	●	●	●	●	●
446	定子绕组安装 Pt100(2 线), 每相 2 个 Pt100 2-wire in stator winding, 2 per phase	●	●	●	●	●	●	●	●	●	●	●	●	●	●

○ 标配 | ● 可选 | - 不适用
○ = Included as standard | ● = Available as option | - = Not applicable

变量代码

Variant codes

多数变量代码同时适用于 IE2 和 IE3 电机，详情请咨询所在的销售区域中心。
Most of the variant codes apply to IE2 and IE3 motors. For details please contact you ABB sales office before making an order.

变量代码 Variant code	描述 Description	M2BAX													
		71	80	90	100	112	132	160	180	200	225	250	280	315	355
502	定子绕组安装 Pt100(3 线), 每相 1 个 Pt100 3-wire in stator winding, 1 per phase	●	●	●	●	●	●	●	●	●	●	●	●	●	●
503	定子绕组安装 Pt100(3 线), 每相 2 个 Pt100 3-wire in stator winding, 2 per phase	●	●	●	●	●	●	●	●	●	●	●	●	●	●
轴承与润滑 Bearings and Lubrication															
037	D 端圆柱滚子轴承 Roller bearing at D-end	-	-	-	-	-	-	●	●	●	●	●	●	●	●
040	耐高温油脂 Heat-resistant grease	●	●	●	●	●	●	●	●	●	●	●	●	●	●
041	通过注油嘴对轴承加油 Bearings regreasable via grease nipples	-	●	●	●	●	●	●	●	●	●	●	○	○	○
043	SPM 振动测量接头 SPM compatible nipples for vibration measurement	●	●	●	●	●	●	●	●	●	●	●	●	●	●
130	轴承安装 Pt100 (3 线) Pt100 3-wire in bearings	-	-	-	-	-	-	●	●	●	●	●	●	●	●
188	D 端 63 系列轴承 63-series bearing in D-end	-	●	●	●	●	●	●	●	●	●	●	○	○	○
379	SKF 轴承 SKF bearings	●	●	●	●	●	●	●	●	●	●	●	●	●	●
622	铸铁轴承内盖 (低窜动) Inner bearing cover of cast iron	●	●	●	●	●	●	●	●	●	●	●	○	○	○
798	不锈钢注油嘴 Stainless steel grease nipples	-	-	-	-	●	●	●	●	●	●	●	●	●	●
866	不锈钢 PT1/4 挂钩式注油嘴 Stainless steel grease nipples, PT1/4	-	●	●	●	●	●	●	●	●	●	●	●	●	●
测试 Testing															
145	目录电机的型式试验报告, 400V 50Hz Type test report from a catalogue motor, 400V 50Hz	●	●	●	●	●	●	●	●	●	●	●	●	●	●
146	指定交货批次内的某一电机的型式试验报告 Type test with report for one motor from specific delivery batch	●	●	●	●	●	●	●	●	●	●	●	●	●	●
148	出厂试验报告 Routine test report.	●	●	●	●	●	●	●	●	●	●	●	●	●	●
接线盒 Terminal box															
020	分离式接线盒 Detached terminal box	●	●	●	●	●	●	●	●	●	●	●	●	●	●
021	左侧接线盒 (从 D 端看) Terminal box LHS (seen from D-end)	-	●	●	●	●	●	●	●	●	●	●	●	●	●
022	电缆进线孔在左侧 (从 D 端看) Cable entry LHS (seen from D-end)	●	●	●	●	●	●	●	●	●	●	●	●	●	●
180	右侧接线盒 (从 D 端看) Terminal box RHS (seen from D-end)	-	●	●	●	●	●	●	●	●	●	●	●	●	●
230	标准金属电缆密封管 Standard metal cable gland	●	●	●	●	●	●	●	●	●	●	●	●	●	●

○ 标配 | ● 可选 | - 不适用
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变量代码

Variant codes

多数变量代码同时适用于 IE2 和 IE3 电机，详情请咨询所在的销售区域中心。
Most of the variant codes apply to IE2 and IE3 motors. For details please contact you ABB sales office before making an order.

变量代码 Variant code	描述 Description	M2BAX													
		71	80	90	100	112	132	160	180	200	225	250	280	315	355
375	标准塑料葛兰 Standard plastic cable gland	●	●	●	●	●	●	●	●	●	●	●	●	●	●
376	2 个标准塑料葛兰 Two standard plastic cable glands	●	●	●	●	●	●	●	●	●	●	●	●	●	●
400	4 x 90 度可转动的接线盒 4 x 90 degr turnable terminal box	●	●	●	●	●	●	○	○	○	○	○	○	○	○
413	延长电缆连接，无接线盒 Extended cable connection, no terminal box	●	●	●	●	●	●	●	●	●	●	●	●	●	●
418	独立的辅助接线盒，标准材料 Separate terminal box for auxiliaries, standard material.	●	●	●	●	●	●	●	●	●	●	●	●	●	●
447	用于监测装置的独立接线盒，顶部安装 Top mounted separate terminal box for monitoring equipment	-	-	-	-	-	-	-	-	-	-	-	-	●	●
468	电缆进口从 D 端 Cable entry from D-end	●	●	●	●	●	●	●	●	●	●	●	●	●	●
469	电缆进口从 N 端 Cable entry from N-end	●	●	●	●	●	●	●	●	●	●	●	●	●	●
624	为英制葛兰预留 Prepared for inch cable glands according to BSPP standard	●	●	●	●	●	●	●	●	●	●	●	●	●	●
731	2 个标准金属电缆密封管 Two standard metal cable glands	●	●	●	●	●	●	●	●	●	●	●	●	●	●
730	为 NPT 葛兰预留 Prepared for NPT cable glands	●	●	●	●	●	●	●	●	●	●	●	●	●	●
738	为公制葛兰预留 Prepared for metric cable glands	○	○	○	○	○	○	○	○	○	○	○	○	○	○
740	为 PG 葛兰预留 Prepared for PG cable glands	●	●	●	●	●	●	●	●	●	●	●	●	●	●
753	铸铁接线盒 Cast iron terminal box	●	●	●	●	●	●	●	●	●	●	●	○	○	○
冷却系统 Cooling system															
068	轻合金金属风扇 Light alloy metal fan	●	●	●	●	●	●	●	●	●	●	●	●	●	●
075	冷却方式 IC418(无叶无罩) Cooling method IC418 (without fan)	●	●	●	●	●	●	●	●	●	●	●	●	●	●
183	独立电机冷却 (轴流风扇 ,N 端) Separate motor cooling (fan axial, N-end)	●	●	●	●	●	●	●	●	●	●	●	●	●	●
999F801	纺织风罩，风叶带工艺孔 Textile fan cover with holes	●	●	●	●	●	●	-	-	-	-	-	-	-	-
419	纺织风罩，风叶不带工艺孔 Textile fan cover without holes	●	●	●	●	●	●	-	-	-	-	-	-	-	-
684	安装 ABB Smart Sensor 硬件 (不含许可码)。 ABB Ability Smart sensor mounted	-	-	-	-	-	-	-	-	●	●	●	●	●	●

○ 标配 | ● 可选 | - 不适用
○ = Included as standard | ● = Available as option | - = Not applicable

一般用途电机简介

General performance

motors in brief

机座号 71-132

Frame size 71-132

电机尺寸 Motor size		71	80	90	100	112	132
机座与端盖 Stator and end shields	材料 Material	铸铁 Cast iron					
	油漆颜色 Paint color shade	Munsell 蓝 8B 4.5/3.25 Munsell blue 8B 4.5/3.25					
	防腐蚀等级 Corrosion class	C3 (中等) C3 (medium)					
底脚 Feet		一体式铸铁底脚 Integrated cast iron feet					
轴承 Bearings	D 端 D-end	6203-2Z/C3	6204-2Z/C3	6205-2Z/C3	6206-2Z/C3	6206-2Z/C3	6208-2Z/C3
	N 端 N-end	6202-2Z/C3	6203-2Z/C3	6204-2Z/C3	6205-2Z/C3	6205-2Z/C3	6208-2Z/C3
轴向锁定轴承 Axially locked bearings		D 端锁定 Locked at D-end					
轴承密封 Bearing seals	D 端 , N 端 D-end, N-end	V 形圈 V-ring					
润滑 Lubrication		封闭式轴承 Bearings greased for life					
铭牌 Rating plate	材料 Material	不锈钢 Stainless steel					
接线盒 Terminal box	接线盒材料 Frame material	铸铁 Cast iron					
	接线盒盖材料 Cover material	钢板 Steel					
	防腐蚀等级 Corrosion class	C3 (中等) C3 (medium)					
	螺钉 Screws	电镀锌钢 Zinc-electroplated steel					
	螺纹孔 Threaded openings	2xM16	2xM25		2xM32		
连接件 Connections	最大铜线 (Cu) 截面积 (mm²) Max Cu-area mm²	4	6		10		
	接线 Terminals	电缆接线头, 6 个端子 Cable lugs, 6 terminals					
风扇 Fan	材料 Material	玻璃纤维增强聚丙烯 Glass-fiber reinforced polypropylene					
风罩 Fan cover	材料 Material	钢板 Steel					
	油漆颜色 Paint color shade	Munsell 蓝 8B 4.5/3.25 Munsell blue 8B 4.5/3.25					
	防腐蚀等级 Corrosion class	C3 (中等) C3 (medium)					
定子绕组 Stator winding	材料 Material	铜 Copper					
	绝缘 Insulation	F 级绝缘, B 级温升, 除非另有规定 Insulation class F. Temperature rise class B unless otherwise stated					
	绕组保护 Winding protection	可选 As option					
转子绕组 Rotor winding	材料 Material	压铸铝 Pressure die-cast aluminum					
平衡方法 Balancing method		半键平衡 Half-key balancing as standard					
排水孔 Drain holes		排水孔具有可闭合塞, 交付时为打开状态 Drain holes with closable plastic plugs, open on delivery					
键槽 Keyway		开口槽 Open keyway					
防护等级 Enclosure		IP 55					
冷却方式 Cooling method		IC 411					
吊环 Lifting lug		一体式铸铁吊环 Integrated cast iron lifting lug					

一般用途电机简介

机座号 160-250

General performance

Frame size 160-250

motors in brief

电机尺寸 Motor size		160	180	200	225	250
机座与端盖 Stator and end shields	材料 Material	铸铁 Cast iron				
	油漆颜色 Paint color shade	Munsell 蓝 8B 4.5/3.25 Munsell blue 8B 4.5/3.25				
	防腐蚀等级 Corrosion class	C3 (中等) C3 (medium)				
		一体式铸铁底脚 Integrated cast iron feet				
底脚 Feet						
轴承 Bearings	D 端 D-end	6209-2Z/C3	6210-2Z/C3	6212-2Z/C3	6213-2Z/C3	6215-2Z/C3
	N 端 N-end	6209-2Z/C3	6209-2Z/C3	6209-2Z/C3	6210-2Z/C3	6212-2Z/C3
轴向锁定轴承 Axially locked bearings		D 端锁定 Locked at D-end				
轴承密封 Bearing seals	D 端, N 端 D-end, N-end	V 形圈 V-ring				
润滑 Lubrication		封闭式轴承 Bearings greased for life				
铭牌 Rating plate	材料 Material	不锈钢 Stainless steel				
接线盒 Terminal box	接线盒材料 Frame material	钢板 Cast iron				
	接线盒盖材料 Cover material	钢板 Steel				
	防腐蚀等级 Corrosion class	C3 (中等) C3 (medium)				
	螺钉 Screws	电镀锌钢 Zinc-electroplated steel				
	螺纹孔 Threaded openings	2xM40+M16			2xM63+M16	
连接件 Connections	最大铜线 (Cu) 截面积 (mm²) Max Cu-area mm²	35			70	
	接线 Terminals	电缆接线头, 6 个端子 Cable lugs, 6 terminals				
风扇 Fan	材料 Material	玻璃纤维增强聚丙烯 Glass-fiber reinforced polypropylene				
风罩 Fan cover	材料 Material	钢板 Steel				
	油漆颜色 Paint color shade	Munsell 蓝 8B 4.5/3.25 Munsell blue 8B 4.5/3.25				
	防腐蚀等级 Corrosion class	C3 (中等) C3 (medium)				
定子绕组 Stator winding	材料 Material	铜 Copper				
	绝缘 Insulation	F 级绝缘, B 级温升, 除非另有规定 Insulation class F. Temperature rise class B unless otherwise stated				
	绕组保护 Winding protection	可选 As option				
转子绕组 Rotor winding	材料 Material	压铸铝 Pressure die-cast aluminum				
平衡方法 Balancing method		半键平衡 Half-key balancing as standard				
排水孔 Drain holes		排水孔具有可闭合塞, 交付时为打开状态 Drain holes with closable plastic plugs, open on delivery				
键槽 Keyway		开口槽 Open keyway				
防护等级 Enclosure		IP 55				
冷却方式 Cooling method		IC 411				
吊环 Lifting lug		一体式铸铁吊环 Integrated cast iron lifting lug				

一般用途电机简介

General performance motors in brief

机座号 280-355

Frame size 280-355

电机尺寸 Motor size		280	315	355
机座与端盖 Stator and end shields	材料 Material	铸铁 Cast iron		
	油漆颜色 Paint color shade	Munsell 蓝 8B 4.5/3.25 Munsell blue 8B 4.5/3.25		
	防腐蚀等级 Corrosion class	C3 (中等) C3 (medium)		
底脚 Feet		一体式铸铁底脚 Integrated cast iron feet		
轴承 Bearings	D 端 D-end	6316/C3	6316/C3 (2P) 6319/C3 (4-8P)	6316/C3 (2P) 6322/C3 (4-8P)
	N 端 N-end	6316/C3	6316/C3	6316/C3
轴向锁定轴承 Axially locked bearings		D 端锁定 Locked at D-end		
轴承密封 Bearing seals	D 端 , N 端 D-end, N-end	V 形圈 V-ring		
润滑 Lubrication		可润滑轴承 Regreasable bearings		
铭牌 Rating plate	材料 Material	不锈钢 Stainless steel		
接线盒 Terminal box	接线盒材料 Frame material	铸铁 Cast iron		
	接线盒盖材料 Cover material	铸铁 Cast iron		
	防腐蚀等级 Corrosion class	C3 (中等) C3 (medium)		
	螺钉 Screws	电镀锌钢 Zinc-electroplated steel		
	螺纹孔 Threaded openings	2xM63+2xM20	2xM63+2xM20	2xM75+2xM20
连接件 Connections	最大铜线 (Cu) 截面积 (mm²) Max Cu-area mm²	2x150	2x240	4x240
	接线 Terminals	电缆接线头, 6 个端子 Cable lugs, 6 terminals		
风扇 Fan	材料 Material	玻璃纤维增强聚丙烯 Glass-fiber reinforced polypropylene		
风罩 Fan cover	材料 Material	钢板 Steel		
	油漆颜色 Paint color shade	Munsell 蓝 8B 4.5/3.25 Munsell blue 8B 4.5/3.25		
	防腐蚀等级 Corrosion class	C3 (中等) C3 (medium)		
定子绕组 Stator winding	材料 Material	铜 Copper		
	绝缘 Insulation	F 级绝缘, B 级温升, 除非另有规定 Insulation class F. Temperature rise class B unless otherwise stated		
	绕组保护 Winding protection	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.		
转子绕组 Rotor winding	材料 Material	压铸铝 Pressure die-cast aluminum		
平衡方法 Balancing method		半键平衡 Half-key balancing as standard		
排水孔 Drain holes		排水孔具有可闭合塞, 交付时为打开状态 Drain holes with closable plastic plugs, open on delivery		
键槽 Keyway		开口槽 Open keyway		
防护等级 Enclosure		IP 55		
冷却方式 Cooling method		IC 411		
吊环 Lifting lug		分体式钢制吊环, 通过吊环螺纹连接到机座 Separate steel lifting lug, bolted to the stator		



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