



# IE3 M3BP - 低压高性能过程用途电机

## IE3 M3BP - Low Voltage Process performance motors

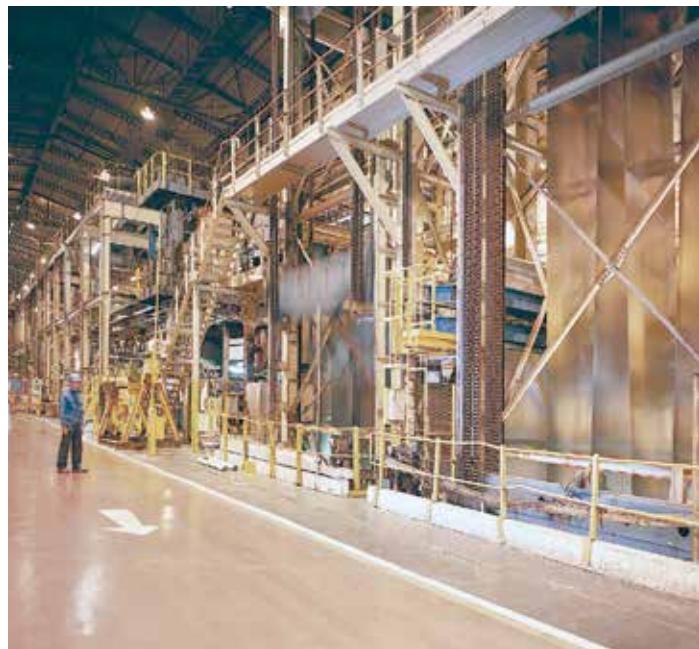
Power and productivity  
for a better world™

**ABB**

# IE3 M3BP - 低压高性能过程用途电机

IE3 M3BP - Low Voltage Process Performance Motor

我们提供电机、发电机、各项相应服务及专门技术，帮助客户在产品的整个使用寿命周期及更长的期限内，实现节能和工艺改进。



# 帮助客户实现增效节能

Help customers to achieve energy saving

## M3BP 系列电机

ABB 是全球领先的电机制造商，拥有先进的电机设计制造技术，市场覆盖全球 100 多个国家和地区。通过 ABB 全球统一设计平台和领先的模块化设计 (ADEPT) 开发的 IE3 M3BP 电机，是一款低压铸铁高性能过程用途电机，是 ABB 低压电机中的旗舰产品，具备超高能效和极高的可靠性等优点，能够满足不同行业对电机的高能效的需求，广泛应用于船舶、造纸、矿山、电厂、港机、水泥、冶金、水处理等行业；并可根据客户特殊要求提供解决方案。

## 产品优点

- 高可靠性  
采用 ABB 最高质量等级，适于严酷要求并连续运转场合长达 30 年的设计使用寿命
- 高效节能  
符合 IEC 国际电工委员会 IE3 超高效电机标准，并入选国家节能产品惠民工程高效电机推广目录
- 低振动
- 适用于变频控制
- 低噪音

## 技术参数

机座高度：71mm ~ 355mm

- 输出功率：0.12 ~ 355 kW
- 极数：2、4、6、8 极
- 安装方式：B3、B5、B35 等
- 机座材料：铸铁
- 电压：≤690V
- 频率：50Hz，可变频使用
- 绝缘等级及温升：F/B
- 防护等级：IP55, IP56, IP65
- 标准：IEC、GB 等

## 客户获得的利益

- 低故障率，提升生产率
- 减少电能支出，降低运营成本
- 全球的售后服务网络
- 3 年的质保期
- 适用于严苛的工况要求
- 更长的使用寿命
- 减少电机维修费用

## IE3 M3BP

ABB is the world's leading manufacturers of motors, and with advanced motor design and manufacturing technology and companies operates in around 100 countries. ABB Shanghai Motors Co., Ltd. introduces M3BP of synchronization with the European technology the use of ABB global Automatic Data Extractor and Plotting Table (ADEPT) , the company can supply low voltage cast iron process performance motors with high efficiency and reliability etc, which can meet premium efficiency requirements for different industries, Its major customers are among the marine, paper, mines, power plant, crane, cements, metals, water, etc, providing solutions to the special requirements of customers.

## Advantages

- High Reliability  
ABB uses the highest quality grade, suitable for continuous operation places severe requirements and the design life of 30 years.
- High efficiency and Energy Saving  
Consistent with the International Electro technical Commission IEC IE3 efficient motor standards, and access to China's energy-efficient promotion list products
- Low vibration
- Designed for VSD operation
- Low noise

## Technical Data

Frame sizes 71mm to 355mm

- Output power: 0.12 to 355kW
- Poles: 2, 4, 6, 8
- Mounting arrangement: B3, B5, B35 etc.
- Frame material: Cast Iron
- Voltage: ≤690V
- Frequency: 50Hz, VSD application
- Insulation Class & Temperature Rise: F/B
- Degrees of protection: IP55, IP56, IP65
- Standard: IEC、GB etc.

## Benefits

- Low failure rate, improve productivity
- Reduce energy and operating costs
- Global service network
- 3 years warranty
- Applicable requirements in harsh conditions
- Longer life cycle
- Low maintenance cost

# 帮助客户实现增效节能

## Help customers to achieve energy saving

### 节约运行成本

使用超高效 IE3 M3BP 电机，有效节约运行过程中消耗的电能。

ABB IE3 M3BP 45kW 电机	效率 $\eta = 94.2\%$
普通效率 45kW 电机	效率 $\eta = 91.7\%$
IE3 M3BP 电机输入功率	= $45/94.2*100=47.77\text{kW}$
普通效率电机输入功率	= $45/91.7*100=49.07\text{kW}$ (1.30kW 耗电差异)
年运行成本	= 输入功率 * 运行小时 * 电价
年节约电费	= $(49.07-47.77)*8760*0.8=9110 \text{ RMB}$ (运行时间按 8760 小时；电费按照 0.8RMB/kWh 计算)

### Save operation cost

Premium efficient IE3 M3BP motors can effectively save power consumption during the operation.

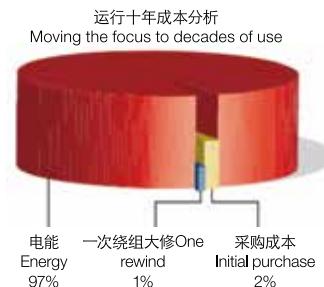
ABB IE3 M3BP 45kW motor	Efficiency $\eta = 94.2\%$
IE2 45kW motor	Efficiency $\eta = 91.7\%$
IE3 M3BP Input	= $45/94.2*100=47.77\text{kW}$
IE2 motor input	= $45/91.7*100=49.07\text{kW}$ (1.30kW deviation)
Annual operation cost	=Input*Run time*Electricity price
Annual energy saving	= $(49.07-47.77)*8760*0.8=9110 \text{ RMB}$ (Assume run time 8760h; Electricity price 0.8RMB/kWh)

### 显著的生命周期成本优势

在电动机的生命周期里，电机采购成本只占其整个生命周期成本很小的一部分，电机使用中节能所产生的效益要远大于电机的采购成本。据测算，M3BP 电机采购成本仅约占其生命周期内总成本的 2%，具有显著的生命周期成本优势。

### Notable cost advantage of life cycle

As shown below, the purchasing cost accounts for only a small part of the lifecycle cost. The benefits generated by energy-saving are much greater than the initial purchase. According to estimates, M3BP motor purchase cost is only about 2% of the total cost of the life cycle, with significant life-cycle cost advantages.



# 为您提供个性化解决方案

## Provide customized solutions

### 工业应用

#### 港口起重

M3BP 电机广泛应用在起重设备的主钩、变幅、平移等传动机构。其出众的起动、过载特性及快速响应性能，获得了港口起重领域客户的青睐，提高了港口设备的工作效率和可靠性。

#### 制浆、造纸行业

制浆、造纸业是 ABB 的核心市场领域之一，ABB 从事纸机传动已有 100 多年的历史，M3BP 电机已广泛使用于国内外大型制浆、造纸行业工程项目，支持造纸行业实现节能增效、成功应对能源挑战。

#### 船舶

船舶业一直是 ABB 的核心市场领域之一。几十年来，ABB 凭借创新的解决方案，为现代船舶设计、建造和营运的发展做出了巨大贡献。M3BP 电机同时具备的高稳定性、低能耗及出众的操作性能，能真正满足用户需求。广泛应用于船用泵、轮机泵、船舵泵、风机、侧推、压缩机、甲板起重机等。

#### 冶金

ABB 作为电力及金属工业领域革新者及技术领导者的地位已长达 100 多年。广泛应用于鼓风机、风扇、水泵、压缩机、卷材设备、轧钢设备、起重机、转炉等冶金设备。

#### 电厂空冷岛

降低能耗已成为空冷技术发展的趋势，选用高效率的电机将有助于降低能耗。空冷机组运行环境恶劣，面临着高、低温、腐蚀性气体等，电机设计使用寿命要求在 25 年以上，M3BP 电机能充分满足空冷机组对电机的绝缘、噪音等严苛的技术要求。

### Industry Application

#### Port Crane

M3BP motors are widely used in crane equipment, such as main hoist, gantry, trolley and other transmission mechanism. The outstanding starting-up, overload characteristics and rapid response performance not only increase the work efficiency of port industry, but also access to customers from the Port Crane industry.

#### Pulp & Paper

P&P is one core market of ABB. ABB has over 100 years experience on P&P driving system. M3BP motors have been widely used in many domestic and international large P&P projects. M3BP can help P&P customer to realize the energy-saving and respond to energy challenge.

#### Marine

Marine industry has always been one of ABB's core markets. For decades, ABB has made great contributions to the development of modern ship design, construction and operation with innovative solutions. M3BP motor has high stability, low power consumption and superior operational performance as well, can really satisfy customer's needs. Widely used in marine pump, wheel pump, rudder pump, fan, side push, compressors, deck cranes etc.

#### Metals

As an innovator and technology leader in power and metal industry is over 100 years. ABB motors are widely used in blowers, fans, pumps, compressors, coil equipment, rolling equipment, cranes, converter and other metallurgical equipment.

#### Power Plant Dry Cooling Tower

Reducing energy consumption has become a trend for Power plant Air-cooled technology. High efficiency motors will help to reduce energy consumption. The motor will facing the high-temperature, corrosive gas, and other demand requirements, M3BP motor can fully meet the special requirement such as insulation and noise.



# 铭牌

## Rating Plates

铭牌以表格形式提供相应电压下的速度、电流和功率因数的数值。

- 100%、75% 及 50% 额定负载下的最低标称效率
- 效率等级
- 制造年份

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

- Lowest nominal efficiency at 100%, 75% and 50% rated load
- Efficiency level
- Year of manufacture

机座号 71-90  
Motor Size 71-90

ABB 3~Motor IE3 M3BP90LA2 IMB3/IM1001			IE3 CE		
3GBP091510-ASL			No.	Cl. F	IP 55
6205-2Z/C3		6204-2Z/C3		30 kg	
⊕	V	Hz	r/min	kW	A
230	△	50	2904	2.2	7.2
400	Y	50	2904	2.2	4.2
50Hz : IE3-85.9(100%)-86.3(75%)-84.8(50%)					
			IEC 60034-1		

机座号 100-132  
Motor Size 100-132

ABB 3~Motor IE3 M3BP132SME4 IMB3/IM1001			IE3 CE		
3GBP132250-ADL			Cl. F	IP 55	
Sr. No.					
⊕	V	Hz	r/min	kW	A
690	Y	50	1462	7.5	9
400	△	50	1462	7.5	15.7
50Hz: IE3 -90.4%(100%)-90.9%(75%)-90.2%(50%)					
			IEC 60034-1		
6208-2Z/C3		6208-2Z/C3		78 kg	

机座号 160-250  
Motor Size 160-250

IE3					
3 ~ Motor IE3 M3BP 225SMA 4 IMB3/IM1001					
2015 No.3GC141106470001001					
Ins.cl. F IP 55					
V	Hz	kW	r/min	A	cos ϕ Duty
690 Y	50	37	1482	39.8	0.83 S1
400 D	50	37	1482	68.9	0.83 S1
660 Y	50	37	1477	40.8	0.85 S1
380 D	50	37	1477	71.2	0.85 S1
440 D	60	37	1781	61.6	0.84 S1
460 D	60	37	1783	59.3	0.83 S1
50Hz: IE3 -93.9(100%)-94.1(75%)-93.8(50%) / 60Hz: IE3-94.5(100%)					
Product code: 3GBP222210-ADL					
6313/C3		Nmax	r/min		
6312/C3	6212/C3		344 kg		
ABB IEC 60034-1					

机座号 280-355  
Motor Size 280-355

IE3					
3 ~ Motor IE3 M3BP280SMB4 IMB3/IM1001					
2015 No.3G1C14210459452001					
⊕		Ins.cl. F		IP 55	
V	Hz	kW	r/min	A	cos ϕ Duty
690 Y	50	75	1484	77.7	0.85 S1
400 D	50	75	1484	134	0.85 S1
415 D	50	75	1486	131	0.84 S1
50 Hz: IE3 -95.0(100%)-95.1%(75%)-94.6%(50%)					
3GBP282220-ADL					
6316/C3		Nmax	2600 r/min		
6316/C3	6316/C3		645 kg		
ABB IEC 60034-1					



# 订购信息

## Ordering Information

### 第 12 位 ( 数据表中用黑点标记 )

#### 安装型式

A= 底脚安装型，顶部安装型接线盒

R= 底脚安装型，从 D 端观察的接线盒，右侧安装

L = 底脚安装型，从 D 端观察的接线盒，左侧安装

B= 凸缘安装型，大凸缘

C= 凸缘安装型，小凸缘 ( 机座号 71-132 )

H= 底脚安装型和凸缘安装型，顶部安装型接线盒

J = 底脚安装型和凸缘安装型，带螺孔的小凸缘

S= 底脚安装型和凸缘安装型，从 D 端观察的接线盒，右侧安装

T = 底脚安装型和凸缘安装型，从 D 端观察的接线盒，左侧安装

V= 凸缘安装型，专用凸缘

F= 底脚安装型和凸缘安装型，专用凸缘

### 位置 13 ( 数据表中用黑点标记 )

#### 电压和频率

#### 单速电机

B 380 V △ 50 Hz

D 400 V △ , 415 V △ , 690 VY 50 Hz

E 500 V △ 50 Hz

E 500 V Y 50 Hz

S 230 V △ , 400 VY, 415 VY 50 Hz

T 660 V △ 50 Hz

U 690 V △ 50 Hz

X 其他额定电压、连接或频率，最高 690 V

#### 双速电机

A 220 V 50 Hz

B 380 V 50 Hz

D 400 V 50 Hz

E 500 V 50 Hz

S 230 V 50 Hz

X 其他额定电压、连接或频率，最高 690 V

#### 备注

如果电压代码为 X，则必须订购变量代码为 209 的非标准电压或频率  
( 专用绕组 )

#### 位置 14

#### 产品族代码

A、B、C···G···L

必要时，变量代码必须跟在产品代码后面。

### Positions 12 ( marked with black dot in data table )

#### Mounting arrangement

A=Foot-mounted, top-mounted terminal box

R=Foot-mounted, terminal box RHS seen from D-end

L =Foot-mounted, terminal box LHS seen from D-end

B=Flange-mounted, large flange

C=Flange-mounted, small flange ( size 71 to 132 )

H=Foot-and flange-mounted, terminal box top-mounted

J =Foot-and flange-mounted, small flange with tapped holes

S=Foot-and flange-mounted, terminal box RHS seen from D-end

T =Foot-and flange-mounted, terminal box LHS seen from D-end

V=Flange-mounted, special flange

F=Foot-and flange-mounted, special flange

### Positions 13 ( marked with black dot in data table )

#### Voltage and frequency

#### Single-speed motors

B 380 V △ 50 Hz

D 400 V △ , 415 V △ , 690 VY 50 Hz

E 500 V △ 50 Hz

E 500 V Y 50 Hz

S 230 V △ , 400 VY, 415 VY 50 Hz

T 660 V △ 50 Hz

U 690 V △ 50 Hz

X Other rated voltage, connection or frequency, 690 V maximum

#### Double - speed motors

A 220 V 50 Hz

B 380 V 50 Hz

D 400 V 50 Hz

E 500 V 50 Hz

S 230 V 50 Hz

X Other rated voltage, connection or frequency, 690 V maximum

#### Remark

For voltage code X the variant code 209 Non-standard voltage or frequency  
( special winding ) must be ordered.

#### Positions 14

#### Genertion code

A、B、C···G···L

The product code must be, if needed, followed by variant codes.

# 技术数据

## Technical Data

IP55-IC411- 绝缘等级 F, 温升等级 B,IE3 效率等级数据 IEC 60034-30-1:2014

IP55-IC411-Insulation class F, temperature rise class B,IE3 efficiency class 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			惯量 Moment of inertia	重量 Weight	声压级 Sound pressure level, $L_{PA}$	
				满载 load 100%	3/4 负载 load 75%	1/2 负载 load 50%			$\cos\varphi$	$I_N$ A	$I_s/I_N$	$T_N$ Nm	$T_s/T_N$	$T_B/T_N$	
kW	r/min														
3000 r/min = 2 极 / 2 poles															
0.37 *	M3BP 71 MC	3GBP 071330-SL	2743	73.8	74.4	72.0	0.80	0.90	4.9	1.3	2.3	2.8	0.00088	10	45
0.55 *	M3BP 71 ME	3GBP 071350-SL	2755	77.8	78.3	77.4	0.83	1.3	6.8	1.9	2.8	3.1	0.00045	11	56
0.75	M3BP 80 MC	3GBP 081330-SL	2879	80.7	80.9	79.0	0.81	1.6	7.2	2.5	3.4	4.2	0.0010	17	57
1.1	M3BP 80 ME	3GBP 081350-SL	2865	82.7	83.2	82.5	0.84	2.3	7.2	3.7	3.5	4.1	0.0012	18	60
1.5	M3BP 90 SLA	3GBP 091010-SL	2901	84.2	84.6	83.6	0.89	2.9	7.7	4.9	2.1	3.5	0.0028	27	69
2.2	M3BP 90 LA	3GBP 091510-SL	2904	85.9	86.3	84.8	0.89	4.2	8.8	7.2	3.1	3.8	0.0036	30	64
3	M3BP 100 MLA	3GBP 101410-SL	2908	87.1	87.9	87.4	0.91	5.4	8.2	9.9	3.3	3.9	0.0013	42	68
4	M3BP 112 ME	3GBP 111350-DL	2882	88.1	89.8	90.7	0.93	6.9	8.3	13	2.9	3.7	0.0139	56	70
5.5	M3BP 132 SMC	3GBP 131230-DL	2908	89.2	89.7	89.0	0.91	9.8	7.6	18	2.3	3.8	0.0182	69	70
7.5	M3BP 132 SME	3GBP 131250-DL	2898	90.1	90.9	90.9	0.91	13.2	7.2	25	2.1	3.6	0.0203	75	70
11	M3BP 160MLA	3GBP 161410-DL	2943	91.2	92.0	91.6	0.91	19.1	7.2	35.6	2.6	3.6	0.057	134	69
15	M3BP 160MLB	3GBP 161420-DL	2947	91.9	92.2	91.8	0.88	26.5	8.2	48.5	3.2	4.2	0.063	154	69
18.5	M3BP 160MLC	3GBP 161430-DL	2949	92.4	93.0	92.6	0.90	32.0	9.0	59.8	3.3	3.9	0.076	170	73
22	M3BP 180MLA	3GBP 181410-DL	2956	92.7	93.1	92.7	0.90	37.7	7.8	71.0	3.4	3.8	0.11	208	73
30	M3BP 200MLA	3GBP 201410-DL	2957	93.3	93.8	93.6	0.88	52.4	7.5	96.9	2.5	3.1	0.182	276	73
37	M3BP 200MLB	3GBP 201420-DL	2960	93.7	94.2	94.1	0.89	64.2	8.2	119.5	3.1	3.4	0.222	303	73
45	M3BP 225SMA	3GBP 221210-DL	2968	94.0	94.0	93.0	0.87	79.6	7.3	144.8	3.2	3.1	0.296	357	76
55	M3BP 250SMA	3GBP 251210-DL	2968	94.3	93.7	93.6	0.89	94.8	6.8	177.0	2.4	3.0	0.426	413	76
75	M3BP 280 SMB	3GBP 281220-DL	2978	94.7	94.5	93.6	0.88	130	7.0	240	2.3	3.0	0.90	665	74
90	M3BP 280 SMC	3GBP 281230-DL	2975	95.0	95.0	94.3	0.88	155	6.4	288	2.1	2.8	0.99	690	74
110	M3BP 315 SMB	3GBP 311220-DL	2982	95.2	95.0	94.0	0.87	192	7.0	352	1.8	2.7	1.30	910	78
132	M3BP 315 SMC	3GBP 311230-DL	2982	95.4	95.3	94.4	0.88	227	6.8	422	2.0	2.8	1.50	965	78
160	M3BP 315 SMD	3GBP 311240-DL	2983	95.6	95.5	94.9	0.88	275	7.4	512	2.2	2.8	1.70	1025	78
200	M3BP 315 MLA	3GBP 311410-DL	2983	95.8	95.8	95.4	0.88	342	7.7	640	2.5	3.1	2.10	1190	81
250	M3BP 315 LKB	3GBP 311820-DL	2983	95.8	95.9	95.5	0.90	419	7.7	800	2.5	3.3	2.90	1440	81
250	M3BP 355 SMA	3GBP 351210-DL	2984	96.0	95.8	94.9	0.89	422	7.7	800	2.1	3.3	3.00	1600	83
315	M3BP 355 SMB	3GBP 351220-DL	2980	96.1	96.0	95.4	0.89	532	7.0	1009	2.1	3.0	3.40	1680	83
355	M3BP 355 SMC	3GBP 351230-DL	2985	96.2	96.1	95.5	0.88	605	7.2	1135	2.2	3.0	3.60	1750	83

带 \* 的电机型号在欧洲及中国最低能效标准中没有定义，但是在 IEC 60034-30-1: 2014 中被包含在内。

Motors marked with \* have not been defined in the EU MEPS and CN MEPS directive but are covered by IEC 60034-30-1, Ed. 1.0. 2014

产品代码中的 · 号表示可选的安装方式（见订购信息第一页）

The · mark in the product code indicate choice of mounting arrangement ( see ordering information page )

$I_s/I_N$ = 启动电流

$I_s/I_N$ =Starting current

$T_s/T_N$ = 转子堵转 - 转矩

$T_s/T_N$ =Locked - rotor torque

$T_B/T_N$ = 最大转矩

$T_B/T_N$ =Breakdown torque

根据 IEC 60034-2-1:2007 的要求，给出效率值。

Efficiency values are given according to IEC 60034-2-1:2007.

请注意，在测试方法未知时，这些数值没有可比性。

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ABB 已经根据间接法计算出效率值，且根据测量得出杂散损耗（附加损耗）。

ABB has calculated the efficiency value according to indirect method, stary load losses (additional losses) determined from measuring

# 技术数据

## Technical Data

IP55-IC411- 绝缘等级 F, 温升等级 B,IE3 效率等级数据 IEC 60034-30-1:2014

IP55-IC411-Insulation class F, temperature rise class B,IE3 efficiency class 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			惯量 Moment of inertia	重量 Weight	声压级 Sound pressure level, $L_{PA}$	
				满载 load 100%	3/4 负载 load 75%	1/2 负载 load 50%			$I_N$	$I_s/I_N$	$T_N$	$T_f/T_N$	$T_B/T_N$		
kW	r/min														
1500 r/min = 4 极 / 4 poles															
0.25 *	M3BP 71 MD	3GBP 072340-SL	1420	73.5	74.9	73.8	0.76	0.63	5.1	1.7	2.0	2.7	0.00090	11	45
0.37 *	M3BP 71 MLE	3GBP 072450-SL	1432	77.3	77.4	74.7	0.76	0.90	5.8	2.50	2.7	3.3	0.00122	12	45
0.55 *	M3BP 80 MLC	3GBP 082430-SL	1443	80.8	81.5	80.2	0.80	1.1	6.7	4.0	3.0	3.5	0.0028	20	45
0.75 *	M3BP 80 MLE	3GBP 082450-SL	1448	82.5	82.5	80.3	0.78	1.7	7.4	4.9	3.0	4.0	0.0033	22	50
1.1	M3BP 90 LA	3GBP 092510-SL	1443	84.1	84.1	81.6	0.77	2.4	5.2	7.3	3.4	4.2	0.0049	28	56
1.5	M3BP 90 LB	3GBP 092520-SL	1445	85.3	85.5	83.1	0.77	3.3	5.7	9.9	3.8	4.6	0.0067	32	56
2.2	M3BP 100 LA	3GBP 102510-SL	1442	86.7	87.0	86.0	0.82	4.5	7.5	14	2.3	3.6	0.0109	38	56
3	M3BP 100 MLB	3GBP 102420-SL	1444	87.7	88.4	87.6	0.81	6.1	7.0	20	3.3	4.1	0.0121	42	58
4	M3BP 112 ME	3GBP 112350-DL	1455	88.6	88.4	87.4	0.76	9.0	7.8	26	3.5	4.3	0.0188	52	59
5.5	M3BP 132 SMB	3GBP 132220-DL	1463	89.6	89.9	89.1	0.75	11.7	7.6	36	2.8	3.9	0.0295	68	70
7.5	M3BP 132 SME	3GBP 132250-DL	1462	90.4	90.9	90.2	0.76	15.7	7.9	49	3.0	4.0	0.0376	78	64
11	M3BP 160MLA	3GBP 162410-DL	1477	91.4	91.8	91.1	0.82	21.1	7.6	71.3	2.6	3.3	0.11	166	61
15	M3BP 160MLB	3GBP 162420-DL	1477	92.1	92.4	91.6	0.82	28.5	8.2	97.0	3.0	3.7	0.135	187	61
18.5	M3BP 180MLA	3GBP 182410-DL	1481	92.6	93.2	92.9	0.83	34.9	7.2	119.3	2.8	3.0	0.219	225	60
22	M3BP 180MLB	3GBP 182420-DL	1481	93.0	93.5	93.3	0.82	41.4	6.5	142.0	3.0	3.2	0.243	238	60
30	M3BP 200MLA	3GBP 202410-DL	1483	93.6	93.8	93.4	0.84	54.8	7.5	193.2	2.7	3.2	0.385	312	63
37	M3BP 225SMA	3GBP 222210-DL	1482	93.9	94.1	93.8	0.83	68.9	7.2	238.6	3.1	3.1	0.427	344	67
45	M3BP 225SMB	3GBP 222220-DL	1482	94.2	94.4	94.0	0.84	82.3	8.0	290.0	3.2	3.5	0.525	377	66
55	M3BP 250SMA	3GBP 252210-DL	1482	94.6	94.7	94.0	0.84	100.0	7.1	354.2	2.9	3.4	0.694	424	68
75	M3BP 280 SMB	3GBP 282220-DL	1484	95.0	95.1	94.6	0.85	134	6.5	482	2.3	2.8	1.38	645	75
90	M3BP 280 SMC	3GBP 282230-DL	1485	95.2	95.4	94.9	0.86	159	7.1	578	2.5	2.9	1.73	700	75
110	M3BP 315 SMB	3GBP 312220-DL	1489	95.4	95.4	94.8	0.85	195	7.0	705	2.1	3.0	2.43	930	71
132	M3BP 315 SMC	3GBP 312230-DL	1488	95.6	95.7	95.3	0.86	231	6.7	847	2.2	2.9	2.90	1000	71
160	M3BP 315 SMD	3GBP 312240-DL	1488	95.8	95.9	95.5	0.85	284	6.9	1026	2.2	3.0	3.20	1000	71
200	M3BP 315 MLB	3GBP 312420-DL	1487	96.0	96.3	96.1	0.86	350	6.8	1284	2.4	3.0	3.90	1220	74
250	M3BP 315 LKA	3GBP 312810-DL	1488	96.0	96.2	96.0	0.85	442	6.9	1604	2.5	3.2	4.40	1410	78
250	M3BP 355 SMA	3GBP 352210-DL	1491	96.2	96.2	95.8	0.86	436	6.4	1601	2.1	2.9	5.90	1610	78
315	M3BP 355 SMB	3GBP 352220-DL	1491	96.2	96.3	95.8	0.86	550	7.2	2017	2.3	3.3	6.90	1780	78
355	M3BP 355 SMC	3GBP 352230-DL	1490	96.0	96.1	95.8	0.86	621	6.3	2273	2.3	2.8	7.20	1820	78

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 $T_B/T_N$ = 最大转矩  
 $T_B/T_N$ =Breakdown torque

根据 IEC 60034-2-1:2007 的要求，给出效率值。

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# 技术数据

## Technical Data

IP55-IC411- 绝缘等级 F, 温升等级 B,IE3 效率等级数据 IEC 60034-30-1:2014

IP55-IC411-Insulation class F, temperature rise class B,IE3 efficiency class according to IEC 60034-30-1:2014

输出 kW	电机型号 Motor type	产品代码 Product code	转速 Speed r/min	效率 / Efficiency IEC 60034-30-1; 2014			功率 因数 Power factor cosφ	电流 Current A	转矩 / Torque			惯量 Moment of inertia $J=1/4$ $GD^2\text{kgm}^2$	重量 Weight kg	声压级 Sound pressure level, $L_{PA}$ dB	
				满载 load 100%	3/4 负载 load 75%	1/2 负载 load 50%			T <sub>N</sub> Nm	T <sub>L/T<sub>N</sub></sub> T <sub>B/T<sub>N</sub></sub>					
<b>1000 r/min = 6 极 / 6 poles</b>															
0.18 *	M3BP 71 ME	3GBP 073350-SL	887	63.9	64.2	59.7	0.74	0.57	3.2	1.9	1.9	2.2	0.00091	10	45
0.25 *	M3BP 80 MB	3GBP 083320-SL	944	68.6	67.9	63.6	0.62	0.84	4.1	2.5	2.7	2.9	0.0019	14	47
0.37 *	M3BP 80 MC	3GBP 083330-SL	938	73.5	74.1	71.6	0.67	1.1	4.3	3.8	2.6	3.8	0.0028	16	50
0.55 *	M3BP 80 ME	3GBP 083350-SL	933	77.2	77.9	75.9	0.68	1.5	6.9	5.6	2.7	5.6	0.0035	18	67
0.75	M3BP 90 SLD	3GBP 093040-SL	944	78.9	79.4	77.6	0.73	1.9	4.4	7.6	2.1	2.8	0.0056	29	44
1.1	M3BP 90 LF	3GBP 093560-SL	944	81.0	82.1	80.5	0.75	2.7	4.7	11	2.1	2.8	0.0068	33	44
1.5	M3BP 100 MLB	3GBP 103420-SL	960	82.5	82.5	80.3	0.65	3.8	5.4	15	2.7	3.4	0.0120	41	49
2.2	M3BP 112 MJ	3GBP 113390-SL	962	84.3	84.4	83.2	0.68	5.3	4.2	22	1.4	2.3	0.0196	53	66
3	M3BP 132 SMB	3GBP 133220-SL	981	85.6	85.5	84.0	0.63	8.0	6.6	29	2.7	3.8	0.0355	75	57
4	M3BP 132 SMF	3GBP 133260-DL	980	86.8	86.5	84.9	0.62	10.7	6.6	39	2.7	3.8	0.0416	82	57
5.5	M3BP 132 SMJ	3GBP 133290-DL	966	88.0	88.5	88.0	0.72	12.5	5.0	54	1.7	2.7	0.0408	81	57
7.5	M3BP 160MLA	3GBP 163410-DL	975	89.1	90.0	90.0	0.77	15.7	5.7	73.2	1.4	3.0	0.089	153	59
11	M3BP 160MLB	3GBP 163420-DL	975	90.3	91.1	91.1	0.78	22.5	6.4	107.5	1.6	3.1	0.138	187	64
15	M3BP 180MLA	3GBP 183410-DL	979	91.2	91.9	91.6	0.79	30.1	5.2	146.9	1.5	2.7	0.212	223	63
18.5	M3BP 200MLA	3GBP 203410-DL	989	91.7	91.9	91.2	0.82	35.2	6.5	178.8	2.2	3.2	0.496	294	59
22	M3BP 200MLB	3GBP 203420-DL	989	92.2	92.4	91.4	0.81	42.4	7.3	212.4	2.6	3.5	0.585	322	59
30	M3BP 225SMA	3GBP 223210-DL	988	92.9	93.0	92.2	0.77	60.4	7.7	290.6	2.9	3.6	0.724	371	63
37	M3BP 250SMA	3GBP 253210-DL	990	93.3	93.7	93.5	0.80	71.1	6.5	357.0	2.4	3.1	1.3	448	58
45	M3BP 280SMB	3GBP 283220-DL	991	93.7	94.0	93.5	0.84	83	7.4	433	2.7	3.0	1.87	645	72
55	M3BP 280SMC	3GBP 283230-DL	992	94.1	94.4	93.9	0.85	99	7.5	528	2.8	3.0	2.57	725	71
75	M3BP 315SMB	3GBP 313220-DL	994	94.6	94.8	94.3	0.84	136	6.8	720	1.8	2.6	4.10	930	75
90	M3BP 315SMC	3GBP 313230-DL	994	94.9	95.1	94.5	0.84	163	7.2	864	2.0	3.0	4.60	1000	76
110	M3BP 315SMD	3GBP 313240-DL	994	95.1	95.3	94.8	0.83	201	7.3	1056	2.2	3.1	4.90	1000	75
132	M3BP 315MLB	3GBP 313420-DL	995	95.4	95.5	94.8	0.82	244	7.3	1266	2.3	3.2	6.30	1200	72
160	M3BP 315LKA	3GBP 313810-DL	994	95.6	95.8	95.4	0.81	298	7.5	1535	2.2	3.1	7.30	1410	76
160	M3BP 355SMA	3GBP 353210-DL	993	95.7	96.0	95.7	0.82	294	6.7	1538	2.5	2.6	7.90	1520	75
200	M3BP 355SMB	3GBP 353220-DL	993	95.8	96.1	95.9	0.82	367	6.7	1923	2.6	2.5	9.70	1680	75
250	M3BP 355SMC	3GBP 353230-DL	993	95.9	96.1	95.8	0.81	465	7.7	2404	3.0	3.1	11.3	1820	75
315	M3BP 355MLB	3GBP 353420-DL	993	96.0	96.3	96.0	0.83	571	6.8	3029	2.6	3.2	13.5	2180	76
355	M3BP 355LKA	3GBP 353810-DL	993	96.0	96.2	95.9	0.81	659	7.5	3413	2.9	3.2	15.5	2500	76

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根据 IEC 60034-2-1:2007 的要求，给出效率值。

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# 技术数据

## Technical Data

IP55-IC411- 绝缘等级 F, 温升等级 B,IE3 效率等级数据 IEC 60034-30-1:2014

IP55-IC411-Insulation class F, temperature rise class B,IE3 efficiency class according to IEC 60034-30-1:2014

输出 kW	电机型号 Motor type	产品代码 Product code	转速 Speed r/min	效率 / Efficiency IEC 60034-30-1; 2014			功率 因数 Power factor $\cos\varphi$	电流 Current I <sub>N</sub> A	转矩 / Torque T <sub>N</sub> Nm			惯量 Moment of inertia J=1/4 GD <sup>2</sup> kgm <sup>2</sup>	重量 Weight kg	声压级 Sound pressure level, L <sub>PA</sub> dB	
				满载 load 100%	3/4 负载 load 75%	1/2 负载 load 50%			T <sub>/T<sub>N</sub></sub>	T <sub>B/T<sub>N</sub></sub>					
<b>750 r/min = 8 极 / 8 poles</b>															
0.12*	M3BP 71 ME	3GBP 074350·SL	659	50.7	50.1	43.3	0.68	0.49	2.5	1.7	1.9	2.1	0.0011	11	43
0.18*	M3BP 80 MF	3GBP 084360·SL	671	58.7	59.9	56.9	0.55	0.80	2.2	2.6	1.3	1.9	0.0035	18	45
0.25*	M3BP 80 MLG	3GBP 084470·SL	665	64.1	64.3	61.7	0.58	0.93	2.3	3.5	1.3	1.9	0.0044	21	50
0.37*	M3BP 90 SLF	3GBP 094060·SL	710	69.3	68.0	63.4	0.52	1.48	3.3	5.0	2.3	3.3	0.0056	28	50
0.55*	M3BP 90 LG	3GBP 094570·SL	710	73.0	72.6	66.8	0.53	2.0	4.1	7.7	2.5	3.2	0.0072	32	53
0.75*	M3BP 100 LKD	3GBP 104840·SL	711	75.0	75.0	72.2	0.63	2.2	3.3	10	1.6	2.3	0.0132	45	46
1.1*	M3BP 100 LKF	3GBP 104860·SL	708	77.7	78.1	75.5	0.64	3.2	3.5	15	1.7	2.4	0.0132	45	53
1.5*	M3BP 112 MF	3GBP 114360·SL	714	79.7	80.2	79.5	0.61	4.3	3.9	20	1.5	2.3	0.0204	53	55
2.2*	M3BP 132 SMD	3GBP 134240·SL	707	81.9	83.1	82.4	0.64	6.0	4.1	30	1.9	2.6	0.0361	73	56
3*	M3BP 132 SMJ	3GBP 134290·SL	717	83.5	84.1	83.4	0.65	7.9	4.4	40	2.0	2.6	0.0435	83	58

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I<sub>s</sub>/I<sub>N</sub>= 启动电流

I<sub>s</sub>/I<sub>N</sub>=Starting current

T<sub>/T<sub>N</sub></sub>= 转子堵转 - 转矩

T<sub>/T<sub>N</sub></sub>=Locked - rotor torque

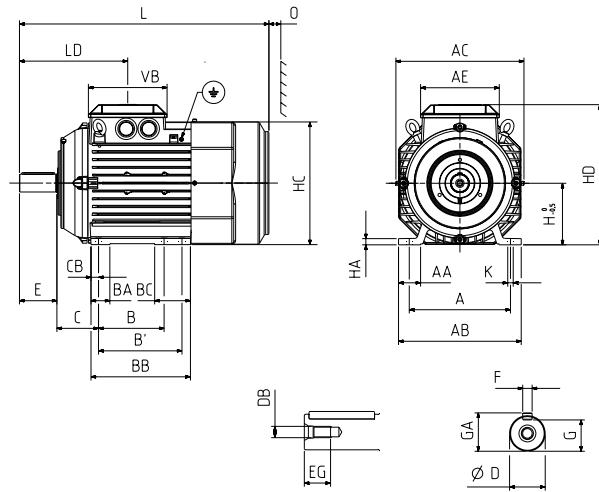
T<sub>B/T<sub>N</sub></sub>= 最大转矩

T<sub>B/T<sub>N</sub></sub>=Breakdown torque

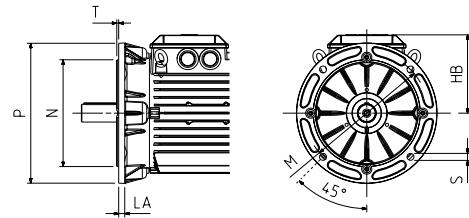
## 尺寸图

## Dimension drawings

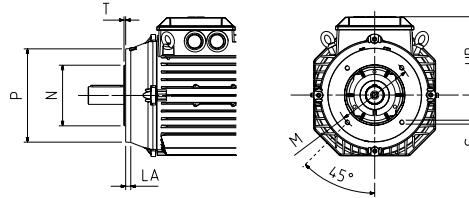
底脚安装型电机 B3 (IM1001) ,IM1002  
Foot-mounted motor; IM B3 (IM1001) ,IM1002



大凸缘安装型电机 B5 (IM3001) ,IM3002  
Flange-mounted motor, large flange; IM B5 (IM3001) ,IM3002



小凸缘安装型电机 B14 (IM3601) ,IM3602  
Flange-mounted motor, SMALL flange; IM B14 (IM3601) ,IM3602



## IM B3 (IM 1001), IM 1002

Motor size	A	AA	AB	AC	AE	B	B <sup>1</sup>	BA	BB	BC	C	CB	D-Tol.	DB
71 M_	112	24	136	139	105	90	-	24	110	24	45	10	14-j6	M5
71 ML_	112	24	136	139	105	90	-	24	110	24	45	10	14-j6	M5
80 M_	125	28	154	157	105	100	-	28	124	28	50	12	19-j6	M6
80 ML_	125	28	154	157	105	100	112	28	136	40	50	12	19-j6	M6
90 SL_	140	30	170	177	118	100	125	28	150	54	56	12	24-j6	M8
90 L_	140	30	170	177	118	100	125	28	150	54	56	12	24-j6	M8
100 L_	160	38	200	197	118	140	-	34	172	34	63	16	28-j6	M10
100 ML_	160	38	200	197	118	140	-	34	172	34	63	16	28-j6	M10
100 LK_	160	38	200	197	118	140	160	34	192	54	63	16	28-j6	M10
112 M_	190	41	230	239	168	140	-	34	170	34	70	14	28-j6	M10
132 SM_	216	47	262	273	168	140	178	40	212	76	89	16	38-k6	M12
Motor size	E	EG	F	G	GA	H	HA	HC	HD	K	L	LD	O	VB
71 M_	30	12.5	5	11	16	71	9	139	178	7	264	112	20	105
71 ML_	30	12.5	5	11	16	71	9	139	178	7	294	112	20	105
80 M_	40	16	6	15.5	21.5	80	10	157	194	10	331	126	20	105
80 ML_	40	16	6	15.5	21.5	80	10	157	194	10	363	126	20	105
90 SL_	50	19	8	20	27	90	10	178	218	10	356	151	20	118
90 L_	50	19	8	20	27	90	10	178	218	10	390	151	20	118
100 L_	60	22	8	24	31	100	12	198	247	12	381	164	25	118
100 ML_	60	22	8	24	31	100	12	198	247	12	403	164	25	118
100 LK_	60	22	8	24	31	100	12	198	247	12	435	164	25	118
112 M_	60	22	8	24	31	112	12	223	258	12	442	200	25	168
132 SM_	80	28	10	33	41	132	13	268	300	12	532	231	30	168

## 尺寸图

## Dimension drawings

IM B5 (IM 3001), IM 3002

Motor size	HB	LA	M	N	P	S	T
71 M_	108	9	130	110	160	10	3.5
71 ML_	108	9	130	110	160	10	3.5
80 M_	114	10	165	130	200	12	3.5
80 ML_	114	10	165	130	200	12	3.5
90 SL_	128	10	165	130	200	12	3.5
90 L_	128	10	165	130	200	12	3.5
100 L_	147	11	215	180	250	15	4.0
100 ML_	147	11	215	180	250	15	4.0
100 LK_	147	11	215	180	250	15	4.0
112 M_	146	11	215	180	250	15	4.0
132 SM_	168	12.5	265	230	300	15	4.0

IM B14 (IM 3601), IM 3602

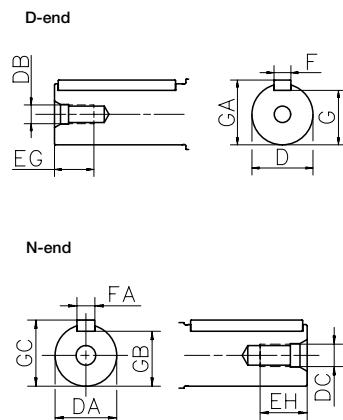
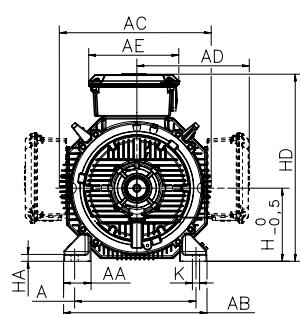
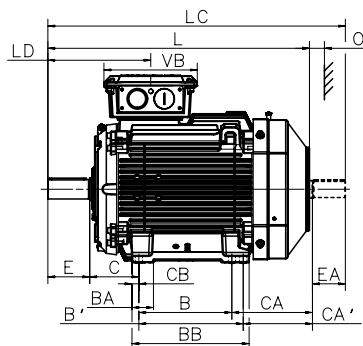
Motor size	HB	LA	M	N	P	S	T
71 M_	108	8	85	70	105	M6	2.5
71 ML_	108	8	85	70	105	M6	2.5
80 M_	114	8	100	80	120	M6	3.0
80 ML_	114	8	100	80	120	M6	3.0
90 SL_	128	10	115	95	140	M8	3.0
90 L_	128	10	115	95	140	M8	3.0
100 L_	147	10	130	110	160	M8	3.5
100 ML_	147	10	130	110	160	M8	3.5
100 LK_	147	10	130	110	160	M8	3.5
112 M_	146	14	130	110	160	M8	3.5
132 SM_	168	12	165	130	200	M10	3.5

上表给出了主要数据 (单位: mm) , 如需图纸详情, 请访问我们的网页或联系 ABB。

Above table gives main dimension in mm. for more detailed drawings, please see our web-site '[www.abb.com/motors & generators](http://www.abb.com/motors & generators)' or contact ABB.

## 尺寸图

## Dimension drawings

底脚安装型电机 ,B3  
Foot-mounted motor,B3

安装方式: IM B3 (IM 1001) , IM B6 (IM 1051) , IM B7 (IM 1061) , IM B8 (IM 1071) , IM V5 (IM 1011) , IM V6 (IM 1031)  
Mounting options: IM B3 (IM 1001) , IM B6 (IM 1051) , IM B7 (IM 1061) , IM B8 (IM 1071) , IM V5 (IM 1011) , IM V6 (IM 1031)

## IM B5 (IM 1001), IM 1002

Motor size	Poles	A	AA	AB	AC	AD	AE	B	B'	BA	BB	C	CA	CA'	CB	D	DA	DB	DC
160 <sup>1)</sup>	2	254	67	310	338	261	257	210	254	69	294	108	164	126	20	42	32	M16	M12
160 <sup>2)</sup>	2-6	254	67	310	338	261	257	210	254	69	294	108	262	224	20	42	32	M16	M12
180	2-6	279	67	340	381	281	257	241	279	68	317	121	263	225	19	48	32	M16	M12
200	2-6	318	69	378	413	328	300	267	305	80	345	133	314	276	20	55	45	M20	M16
225	2	356	84	435	460	348	300	286	311	69	351	149	314	289	20	55	55	M20	M20
225	4-6	356	84	435	460	348	300	286	311	69	351	149	314	289	20	60	55	M20	M20
250	2	406	92	480	508	376	300	311	349	69	392	168	281	243	23	60	55	M20	M20
250	4-6	406	92	480	508	376	300	311	349	69	392	168	281	243	23	65	55	M20	M20

Motor size	Poles	E	EA	EG	EH	F	FA	G	GA	GB	GC	H	HA	HD	HE	K	L	LC	UB1
160 <sup>1)</sup>	2	110	80	36	28	12	10	37	45	27	35	160	23	421	195	14.5	584	671.5	M40
160 <sup>2)</sup>	2-6	110	80	36	28	12	10	37	45	27	35	160	23	421	195	14.5	681	768.5	M40
180	2-6	110	80	36	28	14	10	42.5	51.5	27	35	180	23	461	215	14.5	726	815	M40
200	2-6	110	110	42	36	16	14	49	59	39.5	48.5	200	23	528	249	18.5	821	934	M63
225	2	110	110	42	42	16	16	49	59	49	59	225	23	573	269	18.5	849	971	M63
225	4-6	140	110	42	42	18	16	53	64	49	59	225	23	573	269	18.5	879	1001	M63
250	2	140	110	42	42	18	16	53	64	49	59	250	23	626	297	24.0	884	1010	M63
250	4-6	140	110	42	42	18	16	58	69	49	59	250	23	626	297	24.0	884	1010	M63

Motor size	Poles	UB2	VA	VB	VC	VD	VE
160 <sup>1)</sup>	2	M16	49	257	95	162	129
160 <sup>2)</sup>	2-6	M16	49	257	95	162	129
180	2-6	M16	62	257	95	162	129
200	2-6	M16	55	311	111	201	156
225	2	M16	48	311	111	201	156
225	4-6	M16	48	311	111	201	156
250	2	M16	48	311	111	201	156
250	4-6	M16	48	311	111	201	156

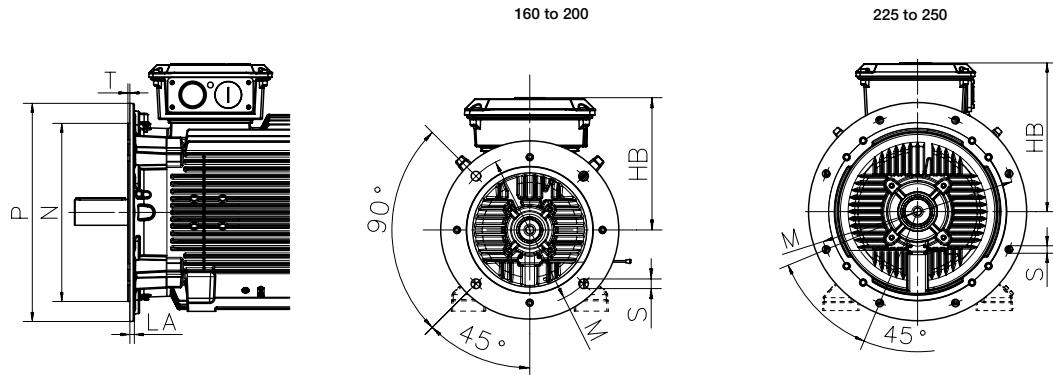
公差 Tolerances	
A,B	ISO js14
C,CA	± 0.8
D,DA	ISO k6<Ø50mm
	ISO m6>Ø50mm
F,FA	ISO h9
H	+0 -0.5

## 尺寸图

## Dimension drawings

大凸缘安装型电机 ,B5

Flange-mounted motor,B5



安装方式: IM B5 (IM 3001), V5 (IM 3011), V3 (IM 3031)

Mounting options:IM B5 (IM 3001), V5 (IM 3011), V3 (IM 3031)

## IM B5 (IM 3001), IM 002

Motor size	Poles	AC	AE	D	DA	DB	DC	E	EA	EG	EH	F	FA	G	GA	GB	GC	HB
160 <sup>1)</sup>	2	338	257	42	32	M16	M12	110	80	36	28	12	10	37	45	27	35	261
160 <sup>2)</sup>	2-6	338	257	42	32	M16	M12	110	80	36	28	12	10	37	45	27	35	261
180	2-6	381	257	48	32	M16	M12	110	80	36	28	14	10	42.5	51.5	27	35	281
200	2-6	413	300	55	45	M20	M16	110	110	42	36	16	14	49	59	39.5	48.5	328
225	2	460	300	55	55	M20	M20	110	110	42	42	16	16	49	59	49	59	348
225	4-6	460	300	60	55	M20	M20	140	110	42	42	18	16	53	64	49	59	325
250	2	508	300	60	55	M20	M20	140	110	42	42	18	16	53	64	49	59	376
250	4-6	508	300	65	55	M20	M20	140	110	42	42	18	16	58	69	49	59	376

Motor size	Poles	HE	L	LA	LB	LC	M	N	P	S	T	UB1	UB2	VA	VB	VC	VD	VE
160 <sup>1)</sup>	2	195	584	20	474	671.5	300	250	350	19	5	M40	M16	49	257	95	162	129
160 <sup>2)</sup>	2-6	195	681	20	571	768.5	300	250	350	19	5	M40	M16	49	257	95	162	129
180	2-6	215	726	15	616	815	300	250	350	19	5	M40	M16	62	257	95	162	129
200	2-6	249	821	20	711	934	350	300	400	19	5	M60	M16	55	311	111	201	156
225	2	269	849	20	739	971	400	350	450	19	5	M60	M16	48	311	111	201	156
225	4-6	269	879	20	739	1001	400	350	450	19	5	M60	M16	48	311	111	201	156
250	2	297	884	24	744	1010	500	450	550	19	5	M60	M16	48	311	111	201	156
250	4-6	297	884	24	744	1010	500	450	550	19	5	M60	M16	48	311	111	201	156

## 公差 Tolerances

D,DA ISO k6&lt;Ø50mm

IE3 M3BP

F,FA ISO h9

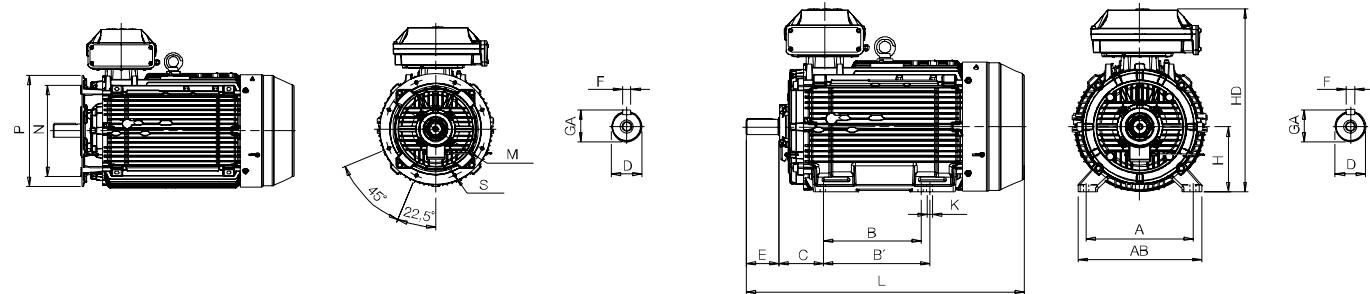
<sup>1)</sup>MLA -2

N ISO j6

<sup>2)</sup>MLB -2, MLC -2, all 4- and 6-poles

## 尺寸图

Dimension drawings



Motor size	IM 1001,IM B3 and IM 3001,IM B5										IM 1001,IM B3						IM 3001,IM B5					
	D poles		GA poles		F poles		E poles		L max poles		A	B	B'	C	HD	K	H	M	N	P	S	
	2	4-6	2	4-6	2	4-6	2	4-6	2	4-6												
280	65	75	69	79.5	18	20	140	140	1088	1088	457	368	419	190	762	24	280	500	450	550	18	
280ML	65	75	69	79.5	18	20	140	140	1089	1189	457	419	457	190	785	24	280	500	450	550	18	
315SM	65	80	69	85	18	22	140	170	1174	1204	508	406	457	216	852	30	315	600	550	660	23	
315ML	65	90	69	95	18	25	140	170	1285	1315	508	457	508	216	852	30	315	600	550	660	23	
355SM	70	100	62.5	90	20	28	140	210	1409	1479	610	500	560	254	958	35	355	740	680	800	23	
355ML	70	100	62.5	90	20	28	140	210	1514	1584	610	560	630	254	958	35	355	740	680	800	23	
355LK	70	100	62.5	90	20	28	140	210	1764	1834	610	710	900	254	958	35	355	740	680	800	23	

\* 更多尺寸信息可参照 ABB 低压高性能过程用途电机样本

More dimension info please refer to ABB Low Voltage Process Performance Motor Catalog

# IE3 M3BP - 低压高性能过程用途电机变量代码

## IE3 M3BP - Low Voltage Process Performance Motor Variant Codes

代码 /Code	变量 /Variant	71	80	90	100	112	132	160	180	200	225	250	280	315	355
530	正常质保期延长 2 年 Two-year extension on standard warranty	NA	NA	NA	NA	NA	NA	R	R	R	R	R	P	P	P
<b>平衡 /Balancing</b>															
417	B 级振动 (IEC 60034-14) Vibration acc. to Grade B (IEC 60034-14).	P	P	P	P	P	P	P	P	P	P	P	P	P	P
423	无键平衡 Balanced without key.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
424	全键平衡 Full-key balancing	P	P	P	P	P	P	P	P	P	P	P	P	P	P
<b>轴承和润滑 /Bearings and Lubrication</b>															
036	轴承装运锁 Transport lock for bearings.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
037	D 端圆柱滚子轴承 Roller bearing at D-end.	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
039	耐低温油脂 Cold-resistant grease	P	P	P	P	P	P	S	S	S	S	S	P	P	P
040	耐高温油脂 Heat-resistant grease	P	P	P	P	P	P	S	S	S	S	S	P	P	P
041	通过注油嘴对轴承加油 Bearings regreasable via grease nipples.	P	P	P	P	P	P	S	S	S	S	S	S	S	S
043	SPM 振动测量接头 SPM compatible nipples for vibration measurement	P	P	P	P	P	P	S	S	S	S	S	S	S	S
057	两端 2RS 轴承 2RS bearings at both ends.	P	P	P	P	P	P	NA							
058	D 端角接触球轴承，轴向力远离轴承 Angular contact bearing at D-end, shaft force away from bearing.	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
060	D 端角接触球轴承，轴向力指向轴承 Angular contact bearing at D-end, shaft force towards bearing.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P
107	轴承安装 Pt100(2 线) Pt100 2-wire in bearings.	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
128	轴承安装两只 Pt100(2 线) Double PT100, 2-wire in bearings	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P
130	轴承安装 Pt100(3 线) Pt100 3-wire in bearings.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P
188	63 系列轴承 63-series bearings.	P	P	P	P	P	P	S	S	S	S	S	S	S	S
796	注油嘴 JIS B 1575 PT 1/8, A 型 Grease nipples JIS B 1575 PT 1/8 Type A	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
797	不锈钢 SPM 测量接头 Stainless steel SPM nipples	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
798	不锈钢注油嘴 Stainless steel grease nipples	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
799	平扣式油嘴, DIN3404, M10x1 螺纹 Grease nipples flat type DIN 3404, thread M10x1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P
800	挂针型注油嘴 JIS B 1575 PT 1/8 Grease nipples JIS B 1575 PT 1/8 pin type	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P
<b>行业标准设计 /Branch standard designs</b>															
178	不锈钢 / 耐酸螺栓 Stainless steel / acid proof bolts.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
204	底脚安装电机的定位螺栓 Jacking bolts for foot mounted motors.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	S
209	非标准电压或频率 (特殊绕组) (注: 此代码的使用需先与工厂确认) Non-standard voltage or frequency, (special winding).	P	P	P	P	P	P	P	P	P	P	P	P	P	P
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 ambient temperature -20°C to -40°C, with space heaters (code 450/451 must be added)	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
425	防腐蚀定子和转子。 Corrosion protected stator and rotor core.	P	P	P	P	P	P	P	P	P	P	P	P	P	P

\* S = 在标准情况下包含  
P = 仅适用于新生产模式  
R = 根据需要  
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代码 /Code	变量 /Variant	71	80	90	100	112	132	160	180	200	225	250	280	315	355
<b>冷却系统 /Cooling system</b>															
068	轻合金金属风扇 Light alloy metal fan	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
075	冷却方式 IC418( 无叶无罩 ) Cooling method IC418(without fan).	P	P	P	P	P	P	P	P	P	P	P	P	P	P
183	独立电机冷却 (轴流风扇, N 端) Separate motor cooling (fan axial, N-end).	P	P	P	P	P	P	P	P	P	P	P	P	P	P
206	钢风扇 Steel fan	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
422	独立冷却风机 (N 端, 背包式冷却) Separate motor cooling (on top) with integrated fanmotor	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P
<b>尺寸图 /Documentation</b>															
141	外形尺寸图 Binding dimension drawing.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
<b>排水孔 /Drain holes</b>															
065	塞紧现有排水孔 Plugged existing drain holes.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
<b>接地螺栓 /Earthing Bolt</b>															
067	外部接地螺栓 External earthing bolt.	S	S	S	S	S	S	S	S	S	S	S	S	S	S
<b>加热元件 /Heating elements</b>															
450	加热带, 100-120V Heating element, 100-120 V	P	P	P	P	P	P	P	P	P	P	P	P	P	P
451	加热带, 200-240V Heating element, 200 - 240 V	P	P	P	P	P	P	P	P	P	P	P	P	P	P
<b>绝缘系统 /Insulation system</b>															
014	H 级绝缘绕组 Winding insulation class H.	P	P	P	P	P	P	R	R	R	R	NA	NA	NA	NA
405	用于变频电源的特殊绕组绝缘 Special winding insulation for frequency converter supply.	P	P	P	P	P	P	R	R	R	R	R	NA	NA	NA
<b>安装方式 /Mounting arrangements</b>															
008	IM 2101 底脚 / 法兰安装, IEC 法兰, 由 IM1001 派生 (B3 派生出 B34) IM 2101 foot/flange mounted, IEC flange, from IM 1001 (B34 from B3).	P	P	P	P	P	P	NA							
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).	P	P	P	P	P	P	P	P	P	P	P	P	P	P
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).	P	P	P	P	P	P	NA							
066	除 IM B3 (1001)、IM B5 (3001)、IM B14 (3601)、 IM B35 (2001)、IM B34 (2101) 外的其它安装方式 Modified for specified mounting position differing from IM B3 (1001), IM B5 (3001), B14 (3601), IM B35 (2001) & IM B34 (2101)	P	P	P	P	P	P	P	P	P	P	P	P	P	P
305	附加吊环 Additional lifting lugs.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P	P
320	IM2001 底脚 / 缺边法兰安装 , 由 IM1001 派生 (B3 派生出 B35) IM 2001 foot/flat bottom flange mounted, from IM 1001 (B35 flat bottom flange from B3) (B14 from B5).	P	P	P	P	P	P	NA							
<b>喷漆 /Painting</b>															
114	特殊油漆颜色, 标准等级 (此代码需注明备注限定颜色 种类的编号, 列表之外的其它颜色需同时选用 999/ 限定 范围之外的特殊油漆颜色, 标准等级) Special paint color, standard grade	P	P	P	P	P	P	P	P	P	P	P	P	P	P
115	C4M 喷漆系统, 根据 ISO 12944-5:2007 Painting system C4M acc. to ISO 12944-2: 2007	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
168	仅涂底漆 Primer paint only.	P	P	P	P	P	P	NA	NA	NA	NA	P	P	P	P
754	C5M 喷漆系统, 根据 ISO 12944-5:2007 Painting system C5M acc. to ISO 12944-2:2007	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P

\* S = 在标准情况下包含  
P = 仅适用于新生产模式  
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## IE3 M3BP - Low Voltage Process Performance Motor Variant Codes

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<b>防护 /Protection</b>															
005	金属防护罩, 立式电机, 轴伸向下 Protective roof, vertical motor, shaft down.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
158	防护等级 IP65 Degree of protection IP65.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
403	防护等级 IP56 Degree of protection IP56.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
783	D 端迷宫式密封 Labyrinth sealing at D-end.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	S	S	S	S
784	D 端伽马密封 Gamma-seal at D-end.	P	P	P	P	P	P	S	S	S	NA	NA	NA	NA	NA
<b>铭牌和指示牌 /Rating &amp; instruction plates</b>															
002	重敲铭牌电压、频率、输出、连续工作制 Restamping voltage, frequency and output, continuous duty.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
004	标准铭牌上的附加内容 (最多 12 位) Additional text on std rating plate (max 12 digits on free text line).	NA	NA	NA	P	P	P	P	P	P	P	P	P	P	P
095	重敲输出 (持续电压、频率)、间歇工作制 Restamping output (maintained voltage, frequency), intermittent duty.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
135	安装额外不锈钢指示牌 Mounting of additional identification plate, stainless.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
139	附加指示牌, 单独交付 Additional identification plate delivered loose.	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
163	变频铭牌。铭牌数据根据报价单 (需先技术确认) Frequency converter rating plate. Rating data according to quotation.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
<b>轴和转子 /Shaft &amp; rotor</b>															
069	根据基本目录的双轴伸 Two shaft extensions as per basic catalogue.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
070	D 端特殊轴伸, 标准材料 (需先技术确认) Special shaft extension at D-End, standard shaft material	P	P	P	P	P	P	P	P	P	P	P	P	P	P
131	电机半键交付 (键不超过轴直径) Motor delivered with half key (key not exceeding shaft diameter)	P	P	P	P	P	P	NA							
165	开口键槽轴伸 Shaft extension with open keyway	NA	NA	NA	NA	NA	NA	P	P	P	P	S	S	S	S
410	不锈钢轴 (标准或非标设计) Shaft material stainless steel	P	P	P	P	P	P	NA	NA	NA	NA	P	P	P	P
600	N 端特殊轴伸, 标准轴材料。 Special shaft extension at N-end, standard shaft material.	P	P	P	P	P	P	P	P	P	P	P	P	P	P

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# IE3 M3BP - 低压高性能过程用途电机变量代码

## IE3 M3BP - Low Voltage Process Performance Motor Variant Codes

代码 /Code	变量 /Variant	71	80	90	100	112	132	160	180	200	225	250	280	315	355
<b>定子绕组温度传感器 /Stator winding temperature sensors</b>															
120	定子绕组安装 KTY 84-130 (每相 1 个) KTY 84-130 (1 per phase) in stator winding.	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
121	定子绕组安装双金属温度开关 (NCC, 3 个串联, 130 °C) Bimetal detectors, break type (NCC), (3 in series), 130 °C, in stator winding	P	P	P	P	P	P	P	P	P	P	P	P	P	P
122	定子绕组安装双金属温度开关 (NCC, 3 个串联, 150 °C) Bimetal detectors, break type (NCC), (3 in series), 150 °C, in stator winding	P	P	P	P	P	P	P	P	P	P	P	P	P	P
123	定子绕组安装双金属温度开关 (NCC, 3 联, 170 °C) Bimetal detectors, break type (NCC), (3 in series), 170 °C, in stator winding	P	P	P	P	P	P	P	P	P	P	P	P	P	P
125	定子绕组安装双金属温度开关 (NCC, 2x3 个串联, 150 °C) Bimetal detectors, break type (NCC), (2x3 in series), 150 °C, in stator winding	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
127	定子绕组安装双金属温度开关 (NCC, 3 个串联, 130 °C 以及 3 个串联, 150 °C) Bimetal detectors, break type (NCC), (3 in series, 130 °C & 3 in series, 150 °C), in stator winding	P	P	P	P	P	P	P	P	P	P	P	P	P	P
435	定子绕组安装 PTC- 热敏电阻 (3 个串联), 130 °C PTC - thermistors (3 in series), 130 °C, in stator winding	P	P	P	P	P	P	P	P	P	P	P	P	P	P
436	定子绕组安装 PTC- 热敏电阻 (3 个串联), 150 °C PTC - thermistors (3 in series), 150 °C, in stator winding	S	S	S	S	S	S	S	S	S	S	S	S	S	S
437	定子绕组安装 PTC- 热敏电阻 (3 个串联), 170 °C PTC - thermistors (3 in series), 170 °C, in stator winding	P	P	P	P	P	P	NA							
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	P	P	P	P	P	P	P	P	P	P	P	P	P	P
441	定子绕组安装 PTC- 热敏电阻 (3 个串联, 130 °C 以 及 3 个串联, 150 °C) PTC - thermistors (3 in series, 130 °C & 3 in series, 150 °C), in stator winding	P	P	P	P	P	P	P	P	P	P	P	P	P	P
442	定子绕组安装 PTC- 热敏电阻 (3 个串联, 150 °C 以 及 3 个串联, 170 °C) PTC - thermistors (3 in series, 150 °C & 3 in series, 170 °C), in stator winding	P	P	P	P	P	P	NA							
445	定子绕组安装 PT100(2 线), 每相 1 个 Pt100 2-wire in stator winding, 1 per phase	P	P	P	P	P	P	P	P	P	P	P	P	P	P
446	定子绕组安装 PT100(2 线), 每相 2 个 Pt100 2-wire in stator winding, 2 per phase	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
502	定子绕组安装 PT100(3 线), 每相 1 个 Pt100 3-wire in stator winding, 1 per phase	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P
503	定子绕组安装 PT100(3 线), 每相 2 个 Pt100 3-wire in stator winding, 2 per phase	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P

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# IE3 M3BP - 低压高性能过程用途电机变量代码

## IE3 M3BP - Low Voltage Process Performance Motor Variant Codes

代码 /Code	变量 /Variant	71	80	90	100	112	132	160	180	200	225	250	280	315	355
<b>接线盒 /Terminal box</b>															
015	△接线电机 Motor supplied in D connection.	P	P	P	P	P	P	NA							
017	Y接线电机 Motor supplied in Y connection.	P	P	P	P	P	P	NA							
019	比标准接线盒大 Larger than standard terminal box.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P
020	分离式接线盒 Detached terminal box.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P
021	左侧接线盒, 从 D 端看 Terminal box LHS (seen from D-end).	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
022	电缆进线孔在左侧 (从 D 端看) Cable entry LHS (seen from D-end).	P	P	P	P	P	P	P	P	P	P	P	P	P	P
157	接线盒防护等级 IP65 Terminal box degree of protection IP65.	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
180	右侧接线盒, 从 D 端看 Terminal box RHS (seen from D-end).	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
230	标准金属电缆密封管 (1 个) Standard metal cable glands.	P	P	P	P	P	P	P	P	P	P	S	S	S	S
278	电缆密封管 ,D 型中尺寸开口 Cable sealing end unit, size medium for D-opening	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P
279	电缆密封管 ,D 型大尺寸开口 Cable sealing end unit, size large for D-opening	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P
292	适配器 C-C Adapter C-C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	NA	NA
293	适配器 D-D Adapter D-D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P
294	适配器 E-D Adapter E-D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P
295	适配器 E-2D Adapter E-2D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P
380	独立的测温元件接线盒, 标准材料 Separate terminal box for temperature detectors, std. material	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P
400	4 x 90 度可转动的接线盒 4 x 90 degr turnable terminal box.	NA	NA	NA	NA	NA	NA	S	S	S	S	S	S	S	S
413	延长电缆连接, 无接线盒 Extended cable connection, no terminal box.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P
418	独立的辅助接线盒, 标准材料 Separate terminal box for auxiliaries, standard material.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
468	电缆进口从 D 端 Cable entry from D-end.	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
469	电缆进口从 N 端 Cable entry from N-end.	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
567	独立接线盒, 铸铁材料 Separate terminal box material: cast iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P
729	铝制无孔出线板 Aluminum non-drilled flange for cable glands	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
730	为 NPT 葛兰预留 Prepared for NPT cable glands	P	P	P	P	P	P	NA							
731	2 个标准金属电缆密封管 Two standard metal cable glands.	P	P	P	P	P	P	P	P	P	P	S	S	S	S
744	不锈钢出线板 Stainless steel non-drilled flange for cable glands.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	P	P	P

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# IE3 M3BP - 低压高性能过程用途电机变量代码

## IE3 M3BP - Low Voltage Process Performance Motor Variant Codes

代码 /Code	变量 /Variant	71	80	90	100	112	132	160	180	200	225	250	280	315	355
<b>测试 /Testing</b>															
145	样本电机的型式试验报告，400V 50Hz Type test report from a catalogue motor, 400V 50Hz.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
146	指定交货批次内的某一电机的型式试验报告 Type test with report for one motor from specific delivery batch.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
148	出厂试验报告 Routine test report.	P	P	P	P	P	P	P	P	P	P	P	P	P	P
760	振动等级测试 Vibration level test	P	P	P	P	P	P	NA							
762	噪声水平测试 Noise level test for one motor from specific delivery batch.	P	P	P	P	P	P	NA							
<b>变速驱动 /Variable speed drives</b>															
470	为空心轴脉冲编码器预留安装 (等同于 Leine & Linde) Prepared for hollow shaft pulse tacho (L&L equivalent).	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
472	安装 1024 脉冲编码器 (L&L 861007455-1024) 1024 pulse tacho (L&L 861007455-1024).	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
473	安装 2048 脉冲编码器 (L&L 861007455-2048) 2048 pulse tacho (L&L 861007455-2048).	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
474	独立电机冷却 (轴流风扇, N 端) , 预留安装空心轴脉冲编码器的位置 (等同于 Leine & Linde) Separate motor cooling (axial fan, N-end) and prepared for hollow shaft tacho (L&L equivalent)	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
476	独立电机冷却 (轴流风扇, N 端) , 安装 1024 脉冲编码器 (L&L 861007355-1024) Separate motor cooling (axial fan, N-end) and 1024 pulse tacho (L&L 861007455-1024)	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
477	独立电机冷却 (轴流风扇, N 端) , 安装 2048 脉冲编码器 (L&L 861007355-2048) Separate motor cooling (axial fan, N-end) and 2048 pulse tacho (L&L 861007455-2048)	NA	NA	NA	NA	NA	NA	P	P	P	P	P	P	P	P
701	N 端绝缘轴承 Insulated bearing at N-end.	NA	NA	NA	NA	NA	NA	R	R	R	R	R	P	P	P
704	EMC 葛兰 EMC cable gland.	P	P	P	P	P	P	P	P	P	P	P	P	P	P

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# 低压高性能过程用途铸铁电机简介

## IE3 Process performance cast iron motors in brief

机座号 71 -132  
Size 71 -132

机座号 / Motor size		71	80	90	100	112	132
定子和端盖 Stator and end shields	材料 / Material	铸铁 / Cast iron					
	油漆颜色色调 / Paint color shade	Munsell 蓝 8B 4.5 / 3.25 / Munsell blue 8B 4.5 / 3.25					
	表面处理 / corrosion class	C3 ( medium )					
底脚 / Feet	材料 / Material	铸铁一体式底脚 / Integrated cast iron feet					
轴承 Bearing	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	6206-2Z/C3	6208-2Z/C3
轴向锁定轴承 / Axially locked bearings		D 端锁定 / Locked at D-end					
轴密封件 Bearing seals	D 端 / D-end	V 型圈 / V-ring					
	N 端 / N-end	迷宫式密封件 / Labyrinth seal					
润滑 / Lubrication		永久润滑密封轴承 / Permanently lubricated shielded bearings					
测量接头 Measureing nipples for condition monitoring of the bears		未配置 / Not included					
铭牌 / Rating plate	材料 / Material	不锈钢 / Stainless steel					
接线盒 Terminal box	接线盒座和盒盖 Frame and cover	铸铁 / Cast iron					
	表面处理 / corrosion class	C3 (medium)					
	盖螺钉 / Cover screws	电镀锌钢 / Zinc-electroplated steel					
连接件 Connections	电缆入口 / Threaded openings	2xM16	2xM25		2xM32		
	端子 / Terminals	6 个端子, 用于跟电缆接线头连接 ( 不含连接头 ) 6 terminals for connection with cable lugs (not included)					
	电缆接头 / Cable glands	标准情况下, 包括电缆接头 / Cable flange included, glands as option					
风扇 / Fan	材料 / Material	玻璃纤维增强塑料 / Glass-fiber reinforced polypropylene					
风罩 Fan cover	材料 / Material	钢 / Steel					
	油漆颜色色调 / Paint color shade	Munsell 蓝 8B 4.5 / 3.25 / Munsell blue 8B 4.5 / 3.25					
	腐蚀等级 / corrosion class	C3 (medium)					
定子绕组 Stator winding	材料 / Material	铜 / Copper					
	绝缘 / Insulation	绝缘等级 F, 温升等级 B, 另行规定的情况下 Insulation class F. Temperature rise class B unless otherwise stated.					
	绕组保护 / Winding protection	3 个 PTC 热敏电阻, 150°C / 3 PTC thermistors, 150°C					
转子绕组 / Rotor winding	材料 / Material	压铸铝 / Pressure die-cast alumiunm					
平衡方法 Balancing method		半键平衡 / Half-key balancing as standard					
键槽 / Keyway		闭口槽 / Closed keyway					
排水孔 / Drain holes		标准排水孔, 交付时为打开状态 / Drain hols with closable plastic plugs, open on delivery					
防护等级 / Enclosure		IP 55					
冷却方式 / Cooling method		IC 411					

# 低压高性能过程用途铸铁电机简介

IE3 Process performance cast iron motors in brief

机座号 160 -250

Size 160 -250

机座号 / Motor size		160	180	200	225	250
定子和端盖 Stator and end shields	材料 / Material	铸铁 / Cast iron				
	油漆颜色色调 / Paint color shade Munsell 蓝 8B 4.5 / 3.25 / Munsell blue 8B 4.5 / 3.25					
	表面处理 / corrosion class	C3 (medium)				
底脚 / Feet	材料 / Material	铸铁一体式底脚, 当接线盒为左 / 右, 在安装时, 为分体式底脚 Integrated cast iron feet, bolted feet when terminal box on LSH/RHS				
轴承 Bearing	D 端 / D-end	6309/C3	6310/C3	6312/C3	6313/C3	6315/C3
	N 端 / N-end	6209/C3	6209/C3	6210/C3	6212/C3	6213/C3
轴向锁定轴承 / Axially locked bearings		D 端锁定 / Locked at D-end				
轴密封件 Bearing seals	D 端 / D-end	Gamma 环密封件 / Gamma-ring				
	N 端 / N-end	V 型圈 / V-ring				
润滑 / Lubrication		可润滑轴承, 注油嘴 M6 × 1 / Regreasable bearings, regreasing nipples M6x1				
测量接头 Measuring nipples for condition monitoring of the bears		配置 / Included				
铭牌 / Rating plate	材料 / Material	不锈钢 / Stainless steel				
接线盒 Terminal box	接线盒座和盒盖 Frame and cover	铸铁 / Cast iron				
	表面处理 / corrosion class	C3 (medium)				
	盖螺钉 / Cover screws	电镀锌钢 / Zinc-electroplated steel				
连接件 Connections	电缆入口 / Cable entries	2xM40,1xM16	2xM63,1xM16			
	端子 / Terminals	6 个端子, 用于跟电缆接线头连接 (这里不包括连接头) 6 terminals for connection with cable lugs (not included)				
	电缆接头 / Cable glands	标准情况下, 包括电缆接头 / Cable flange included, glands as option				
风扇 / Fan	材料 / Material	玻璃纤维增强塑料 /Glass-fiber reinforced polypropylene				
风罩 Fan cover	材料 / Material	钢 / Steel				
	油漆颜色色调 / Paint color shade Munsell 蓝 8B 4.5 / 3.25 / Munsell blue 8B 4.5 / Munsell blue 8B 4.5/3.25					
	腐蚀等级 / corrosion class	C3 (medium)				
定子绕组 Stator winding	材料 / Material	铜 / Copper				
	绝缘 / Insulation	绝缘等级 F, 温升等级 B, 另行规定的情况除外 Insulation class F. Temperature rise class B unless otherwise stated.				
	绕组保护 / Winding protection	3 个 PTC 热敏电阻, 150°C / 3 PTC thermistors,150°C				
转子绕 / 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				
键槽 / Keyway		闭口槽 / Closed keyway				
排水孔 / Drain holes		标准排水孔, 交付时为打开状态 /Drain hole with closable plastic plugs, open on delivery				
防护等级 / Enclosure		IP 55				
冷却方式 /Cooling method		IC 411				

# 低压高性能过程用途铸铁电机简介

IE3 Process performance cast iron motors in brief

机座号 280 -355

Size 280 -355

机座号 / Motor size		280	315	355
定子和端盖 Stator and end shields	材料 / Material 油漆颜色色调 / Paint color shade 表面处理 / Corrosion class	铸铁 / Cast iron Munsell 蓝 8B 4.5 / 3.25 / Munsell blue 8B 4.5 / 3.25 C3 ( medium )		
底脚 / Feet	材料 / Material	铸铁一体式底脚 / Integrated cast iron feet		
轴承 Bearings	D 端 / D-end 4-12 极 / 4-12-pole N 端 / N-end 2 极 / 2-pole 4-12 极 / 4-12-pole	6316 / C3 6316 / C3 6316 / C3 6316 / C3	6316 / C3 6319 / C3 6316 / C3 6316 / C3	6316M / C3 6322 / C3 6316M / C3 6316 / C3
轴向锁定轴承 / Axially locked bearings		D 端锁定 / Locked at D-end		
轴密封件 Bearing seals	D 端 / D-end N 端 / N-end	迷宫式密封件 / Labyrinth seal 迷宫式密封件 / Labyrinth seal		
润滑 / Lubrication		可润滑轴承, 注油嘴 M10x1 / Regreasable bearings, regreasing nipples M10x1		
测量接头 / Measuring nipples		配有 / Included		
铭牌 / Rating plate	材料 / Material	不锈钢 / Stainless steel		
接线盒 Terminal box	接线盒座和盒盖 / Frame and cover 表面处理 / Corrosion class 盖螺钉 / Cover screws	铸铁 / Cast iron C3 ( medium ) 电镀锌钢 / Zinc-electroplated steel		
	电缆入口 Cable-entries	2 × M63 6-8 极 / 6-8-pole	2xM63,2xØ48-60 2xØ32-49,48-60	2xØ48-60,60-80 2xØ32-49,48-60
连接件 Connections		连接件详细情况, 请参见有关接线盒的章节 See section Standard terminal box for detailed information		
	端子 / Terminals	6 个端子, 用于跟电缆接线头连接 (这里不包括连接头) 6 terminals for connection with cable lugs (not included)		
	电缆接头 / Cable glands	标准情况下, 包括电缆接头 / Cable flange and glands included		
风扇 / Fan	材料 / Material	玻璃纤维增强塑料 / Glass-fiber reinforced polypropylene		
风罩 Fan cover	材料 / Material 油漆颜色色调 / Paint color shade 腐蚀等级 / Corrosion class	钢 / Steel Munsell 蓝 8B 4.5 / 3.25 / Munsell blue 8B 4.5 / 3.25 C3 ( medium )		
定子绕组 Stator winding	材料 / Material 绝缘 / Insulation 绕组保护 / Winding protection	铜 / Copper 绝缘等级 F, 温升等级 B, 另行规定的情况除外 Insulation class F. Temperature rise class B unless otherwise stated 3 个 PTC 热敏电阻, 150°C / 3 PTC thermistors, 150°C		
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		
键槽 / Keyway		开口槽 / Open keyway		
排水孔 / Drain holes		标准排水孔, 交付时为打开状态 Drain holes with closable plastic plugs, open on delivery		
防护等级 / Enclosure		IP 55, 可提供更高等级防护 / IP 55, higher protection on request		
冷却方式 / Cooling method		IC 411		



# 联系我们

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