

低壓一般用途電機

Low voltage

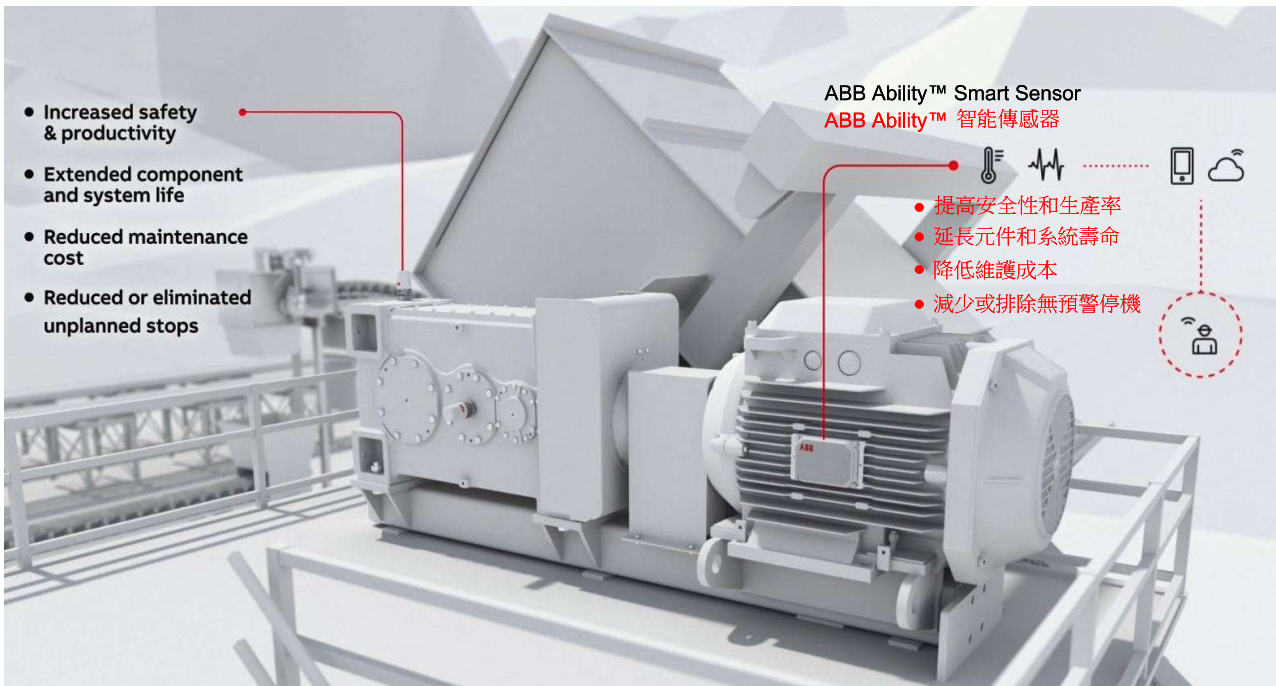
General performance motors

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未來工廠與數位傳動系統

智慧工廠是製造業的未來趨勢，ABB Ability™ 將用戶與工業物聯網 (IIoT) 的強大功能聯繫起來，ABB Ability™ 可以將馬達智能傳感器所收集的數據與其他連接設備（如變速變頻器和泵）的數據相結合，透過遠端取得數據進行分析，從而更深入地了解整個傳動系統的健康狀況，ABB 將連結設備之數據進行分析並與行業專業知識相結合，提供獨特的數位優勢，使設備狀態可預測且安全，提升經營效率。



【ABB Ability™ Smart Sensor 為選配產品】

產品概述

General information

標準

ABB電機採用全封閉三相鼠籠型設計，其工藝符合IEC和EN國際標準。同時，可按要求提供符合其他國家規範的電機。

所有生產廠家均通過 ISO 9001 國際質量認證及 ISO 14000 環境標準，並符合所有適用的歐盟指令。



產品簡介

ABB M2BAX 系列產品適用於一般用途的低壓高效率三相交流電動機。該系列電機通過 ABB 全球研發平台設計，面對全球及中國市場。設計遵循 IEC 國際標準以及中國 GB 標準，效率達到IE3 效能等級。符合中國 2 級能效標準 (GB18613-2012)

M2BAX 系列電機主要是針對大批量購買電機的 OEM 客戶設計，其應用包括風機、水泵、減速機等，可適用於水處理、暖通空調、食品飲料、紡織、電力、機床、造紙、冶金等行業。M2BAX 的優異品質及服務為客戶提供了增值的空間，其標準電機的庫存設計和更短的供貨週期確保了訂單的快速交付，更高的產品靈活性可滿足各類客戶需求。

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

電氣 Electrical	機械 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, equivalent to Grade 2 (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.

產品概述 - 安裝結構形式

General information - Mounting arrangements







腳座安裝型電機

Foot-mounted motor

代碼 I / 代碼 II Code I / code II						產品代碼位置 12 Product code pos. 12
						A = 腳座安裝型，接線盒在頂部 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	







法蘭安裝型電機，大法蘭

Flange-mounted motor, large flange

代碼 I / 代碼 II Code I / code II						產品代碼位置 12 Product code pos. 12
						B = 法蘭安裝型，大法蘭 flange mounted, large flange
IM B5	IM V1	IM V3	*)	*)	*)	
IM 3001	IM 3011	IM 3031	IM 3051	IM 3061	IM 3071	







法蘭安裝型電機，小法蘭

Flange-mounted motor, small flange

代碼 I / 代碼 II Code I / code II						變量代碼 variant code
						047 = B5 衍生出 B14 B14 from B5
IM B14	IM V18	IM V19	*)	*)	*)	
IM 3601	IM 3611	IM 3631	IM 3651	IM 3661	IM 3671	







腳座和法蘭安裝型電機，大法蘭

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

代碼 I / 代碼 II Code I / code II						變量代碼 variant code
						009 = B3 衍生出 B35 B35 from B3
IM B35	IM V15	IM V36	*)	*)	*)	
IM 2001	IM 2011	IM 2031	IM 2051	IM 2061	IM 2071	

腳座和法蘭安裝型電機，小法蘭

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

代碼 I / 代碼 II Code I / code II						變量代碼 variant code
						008 = B3 衍生出 B34 B34 from B3
IM B34	IM V17					
IM 2101	IM 2111	IM 2131	IM 2151	IM 2161	IM 2171	

產品概述 - 防護等級：IP 代碼 / IK 代碼

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

旋轉電機外殼提供的防護等級分類

- IP 代碼 - 符合 IEC 60034-5 或 EN 60529 標準
- IK 代碼 - 符合 EN 50102 標準

IP 防護

防止人員接觸(或接近)帶電部件，以及機殼內的運轉部件。同時避免外界固體異物侵入機器內，保護機器，避免進水防止受到有害影響。

IK 代碼

由機殼保護電機不受外部機械衝擊不利影響的等級分類。

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 代碼說明

Explanation of the IP code

特徵字母 Ingress protection	對人和機殼內電機部件的保護程度 Degree of protection to persons and to parts of the motors inside the enclosure	機殼防止機器進水，遭受有害影響的防水程度 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: 防止大於 12mm 的固體進入機殼
Motors protected against solid objects greater than 12 mm

4: 防止大於 1mm 的固體進入機殼
Motors protected against solid objects greater than 1 mm

5: 防塵保護電機
Dust-protected motors

6: 隔塵電機
Dust-tight motors

位置2

Position 2

3: 使電機被濺水後不受損害
Motors protected against spraying water

4: 使電機被淋水後不受損害
Motors protected against splashing water

5: 使電機被噴水後不受損害
Motors protected against water jets

6: 使電機遭大浪後不受損害
Motors protected against heavy seas

IK代碼說明

Explanation of the IK code

國際機械保護 International mechanical protection	特徵組 Characteristic group
IK	08
	1

位置1

Position 1

IK 代碼和衝擊能量之間的關係：
Relation between IK code and impact energy:

IK 代碼 衝擊能量焦耳
IK code Impact energy/Joule

0: 不按照 EN 50102 提供保護
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 標準)
5 (ABB Standard)

09: 10

10: 20

訂購資訊

Ordering information

訂購時，請按照示例在訂單中說明以下最小數據。電機產品代碼根據以下示例編寫。

示例	
電機型號	M2BAX 112 MA
極數	4
安裝方式 (IM 代碼)	IM B3 (IM1001)
額定輸出	4 kW
產品代碼	3GBA 112 310-ADCCN
附加代碼 (如需)	

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.

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	

產品代碼說明

Explanation of the product code

電機型號 Motor type	電機尺寸 Motor size	產品代碼 Product code	安裝方式代碼，電壓及頻率代碼，產品族代碼 Mounting arrangement, voltage and frequency code, generation codes	變量代碼 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 = 全密閉鑄鐵框號電機
位置 5-6 IEC 框號
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 極數 (對數)
1=2 極 2=4 極 3=6 極
位置 8 -10 序列號
位置 11 -(破折號)
位置 12 安裝方式
A = 腳座安裝型電機 B = 法蘭安裝型電機帶通孔的大法蘭
位置 13 電壓和頻率
D 380 Δ, 400 Δ, 660 Y 50Hz // 440 Δ, 460 Δ 60Hz S 220 Δ, 380 Δ, 400 Y 50Hz // 440 Δ, 460 Δ 60Hz
位置 14 產品族代碼

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
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 Δ, 400 Δ, 660 Y 50Hz // 440 Δ, 460 Δ 60Hz S 220 Δ, 380 Δ, 400 Y 50Hz // 440 Δ, 460 Δ 60Hz
Position 14 Generation code

銘牌

Rating plates

銘牌以表格形式提供六個電壓的轉速、電流和功率因數的數值。

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

IE3
 框號 71-355
 銘牌範例

IE3
 Motor sizes 71 to 355
 Rating plate sample

ABB							
CE IE3 IEC 60034-1							
3 ~ Motor		IE3 M2BAX 80MC2				IMB3/IM1001	
No.							
V	Hz	kW	r/min	A	cos φ	F	IP 55
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			

ABB							
CE IE3 IEC 60034-1							
3 ~ Motor		IE3 M2BAX 160MLA4				IMB3/IM1001	
No.							
V	Hz	kW	r/min	A	cos φ	F	IP 55
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			

說明：
 銘牌圖片僅供格式參考，最終數據以實際銘牌為準。

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

三相全密閉鼠籠式電機技術數據

Technical data for totally enclosed squirrel cage three phase motors

IP 55 - IC 411 - 絕緣等級 F，溫升等級 B

符合 IEC 60034-30-1；2014 的 IE3 效率等級及 GB18613-2012 的 2 級能效

IP 55 - IC 411 - Insulation class F, temperature rise class B

IE3 efficiency class according to IEC 60034-30-1; 2014, Grade 2 according to GB 18613-2012

輸出 Output	電機型號 Motor type	產品代碼 Product code	轉速 Speed	效率 / Efficiency IEC 60034-2-1; 2007			功率 因數 Power factor cos φ	電流 Current			轉矩 / Torque			轉動慣量 Moment of inertia J=1/4 GD ² kgm ²	重量 Weight kg	聲壓等級 Sound pressure level, L _{PA} dB
				滿載 load 100%	3/4 負載 load 75%	1/2 負載 load 50%		I _N A	I _s /I _N	T _N Nm	T _l /T _N	T _b /T _N				
kW			r/min	400 V			CENELEC- 設計 design									
0.37	M2BAX 71 MC	3GBA 071 330-••DCN	2819	76.5	76	73.4	0.80	0.86	6.6	1.26	2.7	3.2	0.00035	9	50	
0.55	M2BAX 71 MB	3GBA 071 320-••DCN	2816	78.4	78.1	75.9	0.80	1.27	6.1	1.88	2.7	3.2	0.0004	10	49	
0.75	M2BAX 80 MC	3GBA 081 330-••DCN	2891	80.7	81.0	78.9	0.80	1.66	7.5	2.49	2.9	3.7	0.00081	15	58	
1.1	M2BAX 80 MD	3GBA 081 340-••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	3GBA 091 120-••DCN	2912	84.2	84.0	82.5	0.83	3.04	8.0	4.96	2.8	3.9	0.00234	22	54	
2.2	M2BAX 90 SLA	3GBA 091 010-••DCN	2908	85.9	85.6	83.9	0.81	4.54	8.2	7.26	3.2	3.9	0.00300	25	67	
3	M2BAX 100 LKA	3GBA 101 810-••DCN	2910	87.1	88.0	88.0	0.91	5.38	8.3	9.84	3.0	3.8	0.00691	47	60	
4	M2BAX 112 MB	3GBA 111 320-••DCN	2904	88.1	89.0	89.2	0.90	7.23	8.5	13.2	2.8	3.7	0.00711	46	64	
5.5	M2BAX 132 SMA	3GBA 131 210-••DCN	2934	89.2	89.8	89.0	0.82	10.6	8.3	17.9	2.4	4.1	0.0136	66	65	
7.5	M2BAX 132 SMB	3GBA 131 220-••DCN	2921	90.1	91.0	90.9	0.84	14.0	8.2	24.5	2.6	4.0	0.0166	76	65	
11	M2BAX 160 MLA	3GBA 161 410-••FCN	2943	91.2	92.0	91.6	0.91	19.1	7.2	35.6	2.6	3.6	0.057	128	69	
15	M2BAX 160 MLB	3GBA 161 420-••FCN	2947	91.9	92.2	91.8	0.88	26.5	7.8	48.5	3.2	4.2	0.063	131	69	
18.5	M2BAX 160 MLC	3GBA 161 430-••FCN	2949	92.4	93.0	92.6	0.90	32.0	8.2	59.8	3.3	3.9	0.076	152	73	
22	M2BAX 180 MLA	3GBA 181 410-••FCN	2941	92.7	93.0	92.7	0.84	41.1	8.1	71.4	3.4	4.1	0.073	151	70	
30	M2BAX 200 MLA	3GBA 201 410-••FCN	2961	93.3	93.3	92.6	0.89	52.0	9.0	96.9	3.7	4.1	0.144	144	80	
37	M2BAX 200 MLB	3GBA 201 420-••FCN	2951	93.7	93.9	93.3	0.89	63.9	9.5	119	4.2	4.1	0.160	212	78	
45	M2BAX 225 SMA	3GBA 221 210-••FCN	2962	94.0	94.0	93.3	0.85	81.3	8.4	145	3.8	4.1	0.223	276	80	
55	M2BAX 250 SMA	3GBA 251 210-••FCN	2965	94.3	93.2	92.6	0.88	96.8	7.4	177	3.4	3.0	0.344	334	78	
75	M2BAX 280 SMB	3GBA 281 220-••MCN	2978	94.7	94.6	93.6	0.88	130	7.0	240	2.3	3.0	0.9	596	74	
90	M2BAX 280 SMC	3GBA 281 230-••MCN	2975	95.0	95.0	94.2	0.88	156	6.4	289	2.1	2.8	1.0	618	74	
110	M2BAX 315 SMB	3GBA 311 220-••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	3GBA 311 230-••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	3GBA 311 240-••MCN	2983	95.6	95.6	94.9	0.87	275	7.4	512	2.2	2.8	1.7	909	78	
200	M2BAX 315 MLA	3GBA 311 410-••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	3GBA 351 210-••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	3GBA 351 220-••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	3GBA 351 230-••MCN	2984	95.8	95.8	95.0	0.88	605	7.2	1136	2.2	3.0	3.6	1565	83	

產品代碼中的兩個原點表示可選的安裝方式，電壓及頻率代碼（見訂購信息頁面）。

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

根據 IEC 60034-2-1 2.0 版本，2014-06 的要求，給出效率值。

請注意，在測試方法未知時，這些數值沒有可比性。

ABB 已經根據間接法計算出效率值，且根據測量得出雜散損耗（附加損耗）。

Efficiency values are given according to IEC 60034-2-1 edition 2.0, 2014-06.

Please note that the values are not comparable without knowing the testing method.

ABB has calculated the efficiency values according to indirect method, stray load losses (additional losses) determined from measuring.

I_s / I_N = 啟動電流

T_l / T_N = 轉子堵轉轉矩

T_b / T_N = 最大轉矩

I_s / I_N = Starting current

T_l / T_N = Locked rotor torque

T_b / T_N = Breakdown torque

三相全密閉鼠籠式電機的技術數據

Technical data for totally enclosed squirrel cage three phase motors

IP 55 - IC 411 - 絕緣等級 F，溫升等級 B

符合 IEC 60034-30-1；2014 的 IE3 效率等級及 GB18613-2012 的 2 級能效

IP 55 - IC 411 - Insulation class F, temperature rise class B

IE3 efficiency class according to IEC 60034-30-1; 2014, Grade 2 according to GB 18613-2012

輸出 Output	電機型號 Motor type	產品代碼 Product code	轉速 Speed	效率 / Efficiency IEC 60034-2-1; 2007			功率 因數 Power factor cos φ	電流 Current				轉矩 / Torque		轉動慣量 Moment of inertia J=1/4 GD ² kgm ²	重量 Weight kg	聲壓等級 Sound pressure level, L _{PA} dB	
				滿載 load 100%	3/4 負載 load 75%	1/2 負載 load 50%		I _N A	I _s /I _N	T _N Nm	T _l /T _N	T _b /T _N					
kW			r/min	400 V				CENELEC- 設計 design									
1500 r/min = 4 極 / 4 poles			400 V	CENELEC- 設計 design													
0.25	M2BAX 71 MB	3GBA 072 320-••DCN	1440	73.5	70.1	63.8	0.64	0.78	6.1	1.67	2.7	3.5	0.00075	11	41		
0.37	M2BAX 71 MLA	3GBA 072 410-••DCN	1441	77.3	74.9	69.8	0.66	1.06	6.8	2.47	2.7	3.8	0.00098	13	50		
0.55	M2BAX 80 MC	3GBA 082 330-••DCN	1446	80.8	80.7	78.0	0.74	1.32	8.0	3.64	2.7	3.9	0.00228	15	48		
0.75	M2BAX 80 MLA	3GBA 082 410-••DCN	1445	82.5	81.2	77.6	0.70	1.84	7.8	4.88	3.8	4.6	0.00295	24	49		
1.1	M2BAX 90 SB	3GBA 092 120-••DCN	1438	84.1	83.4	80.9	0.73	2.59	7.9	7.28	3.6	4.2	0.00394	22	48		
1.5	M2BAX 90 SLA	3GBA 092 010-••DCN	1439	85.3	84.4	82.1	0.73	3.52	7.8	9.95	3.9	4.5	0.00485	24	44		
2.2	M2BAX 100 LB	3GBA 102 520-••DCN	1450	86.7	86.1	84.1	0.78	4.74	8.4	14.5	3.4	4.4	0.00863	35	50		
3	M2BAX 100 LKA	3GBA 102 810-••DCN	1448	87.7	87.7	86.5	0.79	6.25	8.6	19.9	3.6	4.5	0.0115	43	57		
4	M2BAX 112 MLA	3GBA 112 410-••DCN	1443	88.6	88.9	88.1	0.81	8.11	8.5	26.5	3.6	4.4	0.0152	53	57		
5.5	M2BAX 132 SMA	3GBA 132 210-••DCN	1463	89.6	90.4	90.2	0.77	11.5	7.9	35.9	2.6	3.3	0.0297	68	68		
7.5	M2BAX 132 MLA	3GBA 132 410-••DCN	1456	90.4	91.1	90.8	0.78	15.2	8.2	49.1	2.5	3.0	0.039	87	65		
11	M2BAX 160 MLA	3GBA 162 410-••FCN	1477	91.4	91.8	91.1	0.82	21.1	7.6	71.3	2.6	3.3	0.110	139	61		
15	M2BAX 160 MLB	3GBA 162 420-••FCN	1477	92.1	92.4	91.6	0.82	28.5	7.8	97.0	3.0	3.7	0.135	171	61		
18.5	M2BAX 180 MLA	3GBA 182 410-••FCN	1472	92.6	92.6	92.0	0.82	35.0	9.3	120	3.6	4.0	0.135	155	64		
22	M2BAX 180 MLB	3GBA 182 420-••FCN	1473	93.0	93.2	92.5	0.80	42.8	9.1	143	3.3	4.2	0.167	207	65		
30	M2BAX 200 MLA	3GBA 202 410-••FCN	1481	93.6	94.0	93.5	0.82	56.3	9.0	193	3.9	3.0	0.320	170	69		
37	M2BAX 225 SMA	3GBA 222 210-••FCN	1479	93.9	94.2	93.7	0.81	70.3	8.4	238	2.5	3.0	0.376	282	67		
45	M2BAX 225 SMB	3GBA 222 220-••FCN	1481	94.2	94.4	93.8	0.79	87.8	8.2	288	4.2	3.6	0.415	290	68		
55	M2BAX 250 SMA	3GBA 252 210-••FCN	1479	94.6	94.7	94.0	0.83	102	8.3	352	4.4	3.4	0.620	400	74		
75	M2BAX 280 SMB	3GBA 282 220-••MCN	1485	95.0	95.2	94.8	0.86	133	6.4	483	2.3	2.8	1.4	573	75		
90	M2BAX 280 SMC	3GBA 282 230-••MCN	1485	95.2	95.3	94.8	0.86	159	7.1	588	2.5	2.9	1.7	636	75		
110	M2BAX 315 SMB	3GBA 312 220-••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	3GBA 312 230-••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	3GBA 312 240-••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	3GBA 312 420-••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	3GBA 352 210-••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	3GBA 352 220-••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	3GBA 352 230-••MCN	1490	96.0	96.2	95.8	0.86	616	6.3	2273	2.3	2.8	7.2	1635	78		

產品代碼中的兩個原點表示可選的安裝方式，電壓及頻率代碼（見訂購信息頁面）。

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

根據 IEC 60034-2-1 2.0 版本，2014-06 的要求，給出效率值。

請注意，在測試方法未知時，這些數值沒有可比性。

ABB 已經根據間接法計算出效率值，且根據測量得出雜散損耗（附加損耗）。

Efficiency values are given according to IEC 60034-2-1 edition 2.0, 2014-06.

Please note that the values are not comparable without knowing the testing method.

ABB has calculated the efficiency values according to indirect method, stray load losses (additional losses) determined from measuring.

I_s / I_N = 啟動電流

T_l / T_N = 轉子堵轉轉矩

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I_s / I_N = Starting current

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三相全密閉鼠籠式電機的技術數據

Technical data for totally enclosed squirrel cage three phase motors

IP 55 - IC 411 - 絕緣等級 F，溫升等級 B

符合 IEC 60034-30-1；2014 的 IE3 效率等級及 GB18613-2012 的 2 級能效

IP 55 - IC 411 - Insulation class F, temperature rise class B

IE3 efficiency class according to IEC 60034-30-1; 2014, Grade 2 according to GB 18613-2012

輸出 Output	電機型號 Motor type	產品代碼 Product code	轉速 Speed	效率 / Efficiency IEC 60034-2-1; 2007			功率 因數 Power factor	電流 Current			轉矩 / Torque			轉動慣量 Moment of inertia	重量 Weight	聲壓等級 Sound pressure level, L _{PA} dB
				滿載 load 100%	3/4 負載 load 75%	1/2 負載 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	CENELEC- 設計 design						J=1/4 GD ² kgm ²	kg	
1000 r/min = 6 極 / 6 poles			400 V													
0.18	M2BAX 71 MB	3GBA 073 320-••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	3GBA 073 410-••DCN	926	68.6	66.3	60.9	0.67	0.80	4.3	2.58	2.6	2.9	0.0014	13	46	
0.37	M2BAX 80 MC	3GBA 083 330-••DCN	939	73.5	71.5	66.7	0.66	1.09	5.6	3.80	2.8	3.2	0.0024	15	42	
0.55	M2BAX 80 MLA	3GBA 083 410-••DCN	943	77.2	75.9	71.9	0.68	1.54	6.3	5.60	3.4	3.5	0.00353	20	48	
0.75	M2BAX 90 SLA	3GBA 093 010-••DCN	952	78.9	78.0	73.9	0.59	2.35	5.3	7.52	3.1	3.6	0.0044	22	50	
1.1	M2BAX 90 LB	3GBA 093 520-••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	3GBA 103 810-••DCN	953	82.5	83.4	82.0	0.88	3.00	5.9	15.0	2.4	3.0	0.00975	38	59	
2.2	M2BAX 112 MLA	3GBA 113 410-••DCN	957	84.3	83.8	81.5	0.64	5.94	6.5	22.0	2.9	3.7	0.013	47	50	
3	M2BAX 132 SMA	3GBA 133 210-••DCN	968	85.6	86.1	84.9	0.68	7.40	6.7	29.6	2.1	3.2	0.0291	66	48	
4	M2BAX 132 SMB	3GBA 133 220-••DCN	972	86.8	86.8	84.9	0.65	10.1	7.0	39.3	2.7	3.6	0.0343	73	52	
5.5	M2BAX 132 MLA	3GBA 133 410-••DCN	974	88.0	87.4	86.0	0.67	13.5	7.3	54.2	2.9	3.5	0.051	103	65	
7.5	M2BAX 160 MLA	3GBA 163 410-••FCN	979	89.1	89.5	88.9	0.75	15.9	7.6	73.4	1.8	3.1	0.099	138	59	
11	M2BAX 160 MLB	3GBA 163 420-••FCN	976	90.3	91.3	91.3	0.78	22.5	7.8	108	1.9	3.0	0.134	173	57	
15	M2BAX 180 MLA	3GBA 183 410-••FCN	971	91.2	91.8	91.2	0.75	31.8	8.6	146	2.3	3.6	0.162	208	63	
18.5	M2BAX 200 MLA	3GBA 203 410-••FCN	978	91.7	92.1	91.5	0.75	38.8	6.7	180	2.1	2.8	0.207	203	64	
22	M2BAX 200 MLB	3GBA 203 420-••FCN	978	92.2	92.5	91.8	0.75	45.9	7.3	214	2.3	3.0	0.255	212	62	
30	M2BAX 225 SMA	3GBA 223 210-••FCN	988	92.9	93.3	92.7	0.79	59.0	7.8	290	2.9	3.3	0.592	284	63	
37	M2BAX 250 SMA	3GBA 253 210-••FCN	986	93.3	93.6	93.1	0.79	72.4	8.1	353	3.3	3.0	0.830	363	64	
45	M2BAX 280 SMB	3GBA 283 220-••MCN	991	93.7	94.0	93.5	0.84	81.9	7.4	433	2.7	3.0	1.9	562	72	
55	M2BAX 280 SMC	3GBA 283 230-••MCN	993	94.1	94.3	93.8	0.86	98.2	7.5	530	2.8	3.0	2.6	615	71	
75	M2BAX 315 SMB	3GBA 313 220-••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	3GBA 313 230-••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	3GBA 313 240-••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	3GBA 313 420-••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	3GBA 353 210-••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	3GBA 353 220-••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	3GBA 353 230-••MCN	993	95.8	96.1	95.8	0.81	464	7.7	2404	3.0	3.1	11.3	1656	75	

產品代碼中的兩個原點表示可選的安裝方式，電壓及頻率代碼（見訂購信息頁面）。

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根據 IEC 60034-2-1 2.0 版本，2014-06 的要求，給出效率值。

請注意，在測試方法未知時，這些數值沒有可比性。

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Efficiency values are given according to IEC 60034-2-1 edition 2.0, 2014-06.

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I_s / I_N = 啟動電流

T_l / T_N = 轉子堵轉轉矩

T_b / T_N = 最大轉矩

I_s / I_N = Starting current

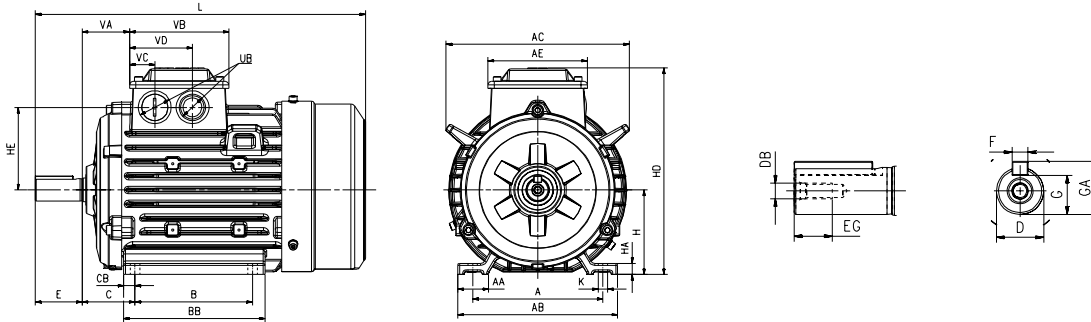
T_l / T_N = Locked rotor torque

T_b / T_N = Breakdown torque

外型圖及外型尺寸 Dimension drawings

框號 71-132 Frame size 71-132

腳座安裝型電機 IM1001, B3
Foot-mounted motor IM1001, B3



電機尺寸 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

電機尺寸 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	附註 Footnotes
A, B ± 0.8	¹⁾ M2BAX IE2
D ISO j6 ≤ φ 28 mm ISO k6 ≤ φ 38 mm	²⁾ M2BAX IE3
F ISO h9	
H +0, -0.5	
N ISO j6	
C ± 0.8	

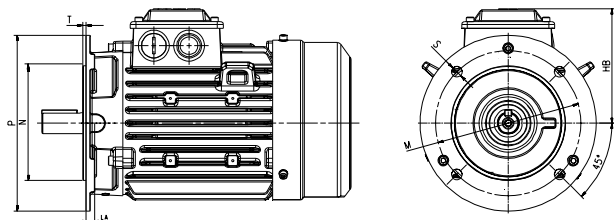
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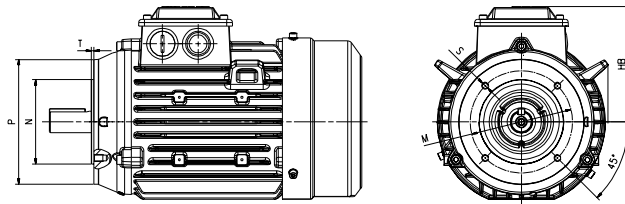
外型圖及外型尺寸 Dimension drawings

框號 71-132 Frame size 71-132

法蘭安裝型電機 IM3001, B5
Flange-mounted motor IM3001, B5



小法蘭安裝型電機 IM3601, B14
Small flange-mounted motor IM3601, B14



電機尺寸 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

電機尺寸 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	附註 Footnotes
A, B ± 0.8	¹⁾ M2BAX IE2
D ISO j6 ≤ φ 28 mm ISO k6 ≤ φ 38 mm	²⁾ M2BAX IE3
F ISO h9	
H +0, -0.5	
N ISO j6	
C ± 0.8	

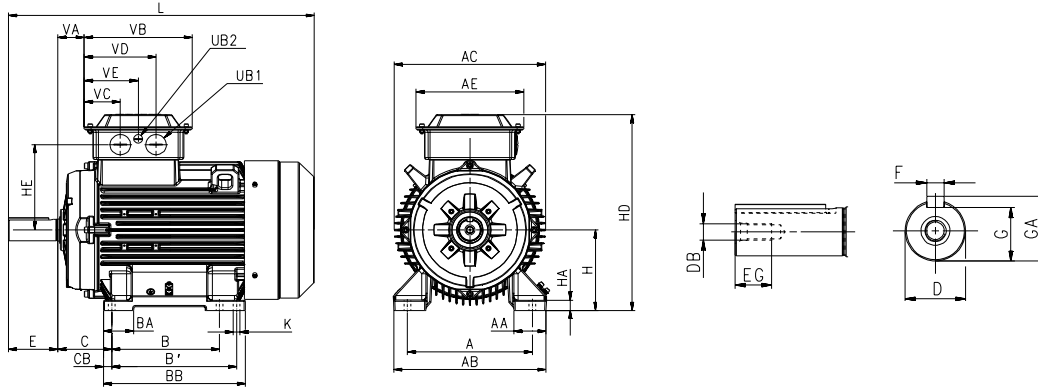
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外型圖及外型尺寸 Dimension drawings

框號 160-250 Frame size 160-250

腳座安裝型電機 IM1001, B3
Foot-mounted motor IM1001, B3



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

電機尺寸 Motor size	極數 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	附註 Footnotes
A, B ± 0.8	M2BAX IE2: M2BAX IE3:
D ISO k6 ≤ φ 50 mm	¹⁾ MLB6 以外的所有型號 ¹⁾ MLA2, MLB2
ISO m6 ≤ φ 50 mm	²⁾ All types except MLB6 ²⁾ MLA4, MLA6
F ISO h9	³⁾ MLB6 ³⁾ MLC2, MLB4, MLB6
H +0, -0.5	⁴⁾ 所有型號 All types ⁴⁾ MLA2, MLA4
N ISO j6	⁵⁾ 所有型號 All types ⁵⁾ MLB4, MLA6
C ± 0.8	⁶⁾ 所有型號 All types ⁶⁾ MLA6
	⁷⁾ MLA6 以外的所有型號 ⁷⁾ All types except MLA6
	⁸⁾ 所有型號 All types

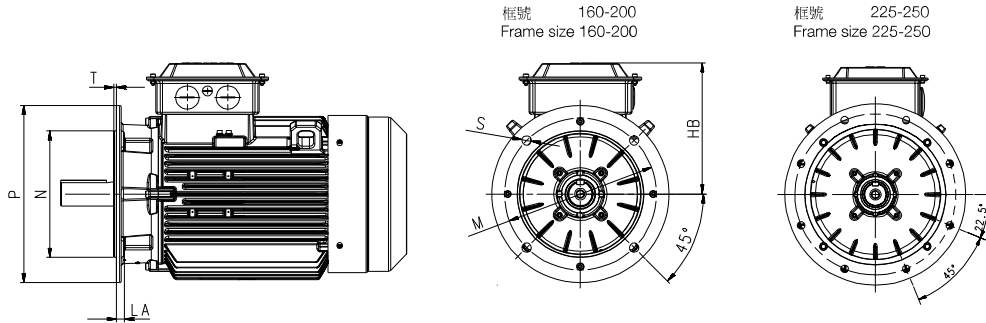
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外型圖及外型尺寸 Dimension drawings

框號 160-250 Frame size 160-250

法蘭安裝型電機 IM3001, B5
Flange-mounted motor IM3001, B5



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

公差 Tolerance	附註 Footnotes
A, B ± 0.8	M2BAX IE2: M2BAX IE3:
D ISO k6 ≤ φ 50 mm ISO m6 ≤ φ 50 mm	¹⁾ MLB6 以外的所有型號 All types except MLB6 ²⁾ MLB6 ³⁾ MLC2, MLB4, MLB6 ⁴⁾ 所有型號 All types ⁵⁾ 所有型號 All types ⁶⁾ 所有型號 All types
F ISO h9	⁷⁾ MLA2, MLA4 ⁸⁾ MLA6 ⁹⁾ MLA6 以外的所有型號 All types except MLA6
H +0, -0.5	所有型號 All types
N ISO j6	所有型號 All types
C ± 0.8	

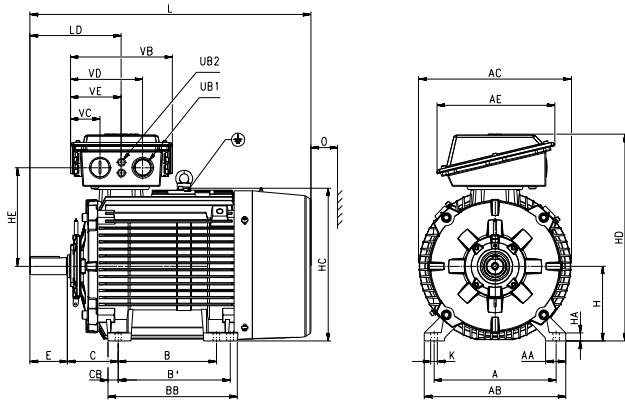
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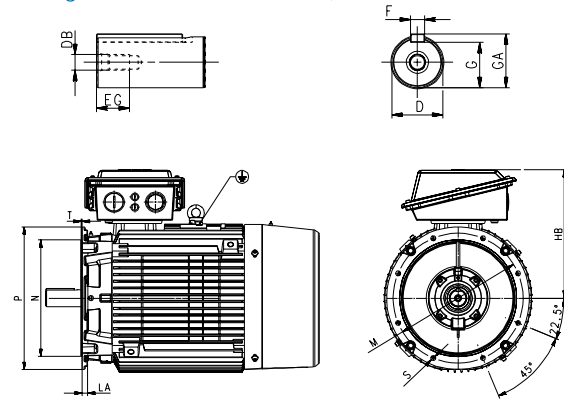
外型圖及外型尺寸 Dimension drawings

框號 280-355 Frame size 280-355

腳座安裝型電機 IM1001, B3
Foot-mounted motor IM1001, B3



法蘭安裝型電機 IM3001, B5
Flange-mounted motor IM3001, B5



電機尺寸 Motor size	極數 Poles	A	AA	AB	AC	AE	B	B'	BB	C	CB	D-tol.	DB	E	EG	F	G
M2BAX 280SM ¹⁾	2	457	75	530	494	355	368	419	485	190	38	65-m6	M20	140	42	18	58
280SM ¹⁾	4-6	457	75	530	494	355	368	419	485	190	38	75-m6	M20	140	42	20	67.5
280SM ²⁾	2	457	75	530	571	442	368	419	485	190	38	65-m6	M20	140	42	18	58
280SM ²⁾	4-6	457	75	530	571	442	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	4-6	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	4-6	508	100	590	644	442	457	508	664	216	52	90-m6	M24	170	50	25	81
355SM	2	610	120	700	739	493	500	560	698	254	72	70-m6	M20	140	42	20	62.5
355SM	4-6	610	120	700	739	493	500	560	698	254	72	100-m6	M24	210	50	28	90

電機尺寸 Motor size	極數 Poles	GA	H	HA	HC	HD	HE	K	L	LD	O	UB1	UB2	VB	VC	VD	VE
M2BAX 280SM ¹⁾	2	69	280	30	544	710	319	24	1012	346	100	M63x1.5	M20x1.5	307	91	215	153.5
280SM ¹⁾	4-6	79.5	280	30	544	710	319	24	1012	346	100	M63x1.5	M20x1.5	307	91	215	153.5
280SM ²⁾	2	69	280	30	573	775	370	24	1052	342	100	M63x1.5	M20x1.5	383	111	271	191.5
280SM ²⁾	4-6	79.5	280	30	573	775	370	24	1052	342	100	M63x1.5	M20x1.5	383	111	271	191.5
315SM	2	69	315	38	638	849	409	28	1216	348	115	M63x1.5	M20x1.5	383	111	271	191.5
315SM	4-6	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	4-6	95	315	38	638	849	409	28	1356	378	115	M63x1.5	M20x1.5	383	111	271	191.5
355SM	2	74.5	355	41	725	933	462	35	1399	399	130	M75x1.5	M20x1.5	382	111	271	191.5
355SM	4-6	106	355	41	725	933	462	35	1469	469	130	M75x1.5	M20x1.5	382	111	271	191.5

電機尺寸 Motor size	極數 Poles	HB	LA	M	N	P	S	T
M2BAX 280SM ¹⁾	2-6	430	21	500	450	550	18.5	5
280SM ¹⁾	2-6	495	21	500	450	550	18.5	6
315	2-6	534	27	600	550	660	24	6
355	2-6	578	22	740	680	800	24	6

公差 Tolerance	附註 Footnotes
A, B ± 0.8	¹⁾ M2BAX IE2
D ISO k6 ≤ φ 50 mm ISO m6 ≤ φ 50 mm	²⁾ M2BAX IE3
F ISO H9	
H +0, -1	
N ISO j6	
C ± 0.8	

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