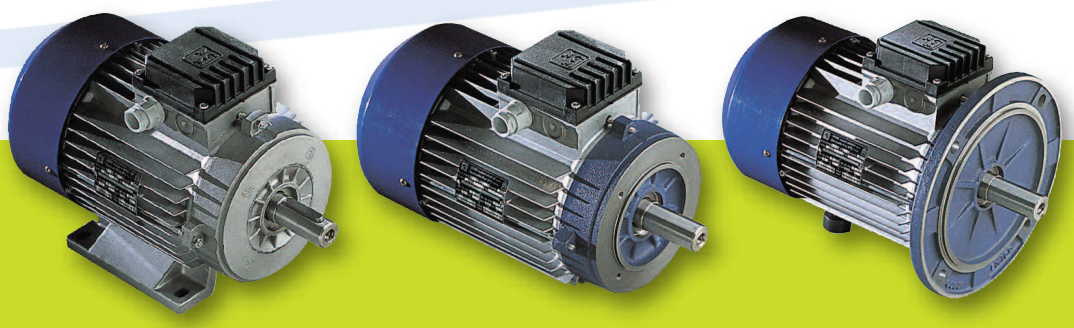
SMX-SMD-SMDA

Motori asincroni trifase con rotore a gabbia di scoiattolo

Three phase squirrel cage induction motors



SMX-SMD-SMDA

- Motori asincroni trifase con rotore a gabbia di scoiattolo
- Altezza d'asse compresa tra IEC 56 e IEC 315 mm
- Potenze disponibili comprese tra 0,04 e 132 kW. Singola velocità 2,4,6,8 poli (serie SMX) o doppia velocità 2/4,4/8 (serie SMD), 2/8,2/6,2/12,4/6,4/12,4/16 poli (serie SMDA)
- Rendimento in classe IE2-IE3 (serie SMX) in conformità al regolamento EU 2019/1781
- Costruzione chiusa (TEFC)
- Grado di protezione IP55 (IP56 su richiesta)
- Isolamento in classe F (classe H su richiesta)
- Carcassa in alluminio fino all'altezza d'asse 132 e in ghisa a partire dall'altezza d'asse IEC 160 mm
- Flangia in ghisa a partire dall'altezza d'asse IEC 100 mm
- Certificazione cCSAus (su richiesta) e conformità ai requisiti di efficienza EISA (CC051A) e NRC (su richiesta)
- Certificazione CCC e China Energy label per l'efficienza (su richiesta)
- Certificazione EAC (su richiesta)

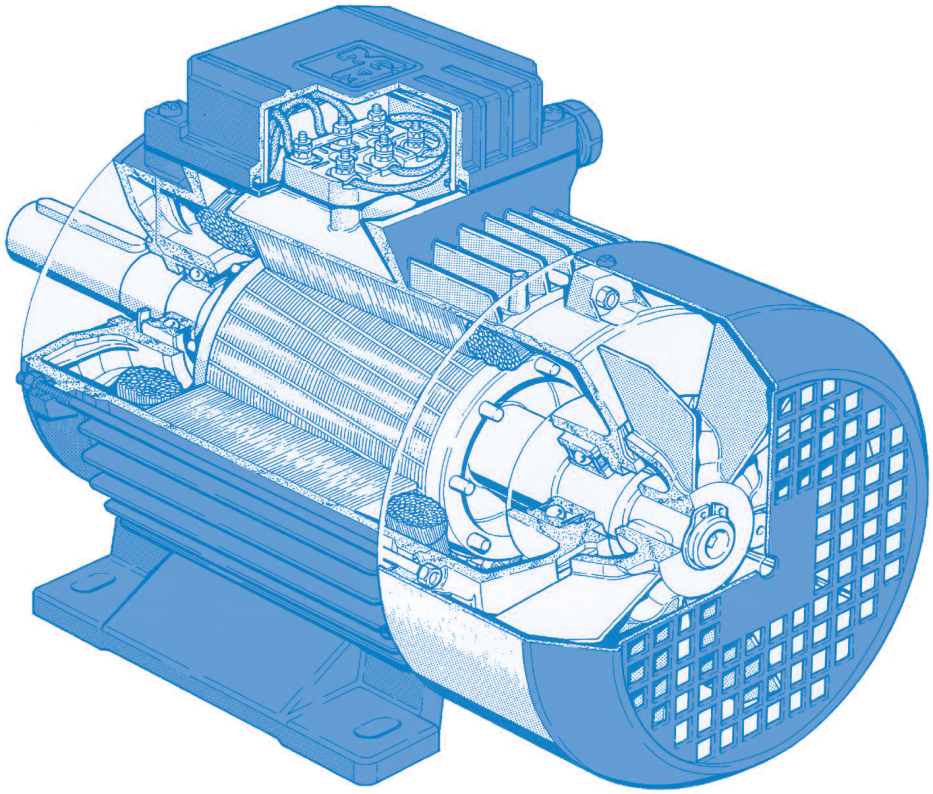
Sono inoltre disponibili le seguenti opzioni:

- Termoprotettori (PTO) o termistori (PTC)
- Scaldiglie anticondensa
- Ventilazione ausiliaria -AV (serie SMXAV)
- Encoder -E (serie SMXE)
- Alberi e flange con dimensioni non unificate
- Motori con dimensioni NEMA

- Three phase squirrel cage induction motors
- IEC Metric Motors from 56 to 315 frame size
- Power range from 0,04 up to 132 kW. Single speed 2,4,6,8 pole (SMX series) or double speed 2/4,4/8 (SMD series), 2/8,2/6,2/12,4/6,4/12,4/16 pole (SMDA series)
- SMX Series comply with IE2- IE3 efficiency class (regulation EU 2019/1781)
- Totally Enclosed Fan Cooled (TEFC)
- IP55 enclosure (IP56 on request)
- F class insulation (H class on request)
- Aluminum frame up to 132 frame size, cast iron from 160 to 315 frame size
- Cast iron flange starting from 100 frame size
- cCSAus mark and compliance to efficiency rule EISA (CC051A) and NRC (on request)
- CCC mark and compliance to Chinese efficency rule and China Energy Label (on request)
- EAC mark (on request)

The following options are available upon request:

- special shaft dimensions (DE-side) or double extended shaft (NDE-side)
- encoder (SMXE series)
- anti-condensation heaters
- thermistors (PTC) or Bi-Metallic (PTO) thermal protectors
- forced cooling (SMXAV series)
- motors with NEMA dimensioned shafts and flanges



GAMMA DI POTENZE - POWER RANGE

IEC Size	2 pole kW	4 pole kW	6 pole kW	8 pole kW	2/4 pole kW	4/8 pole kW	2/6 pole kW	2/8 pole kW	4/6 pole kW	4/12 pole kW S3 40%	2/12 pole kW S3 40%	4/16 pole kW S4 40% - 4 pole S4 25% - 16 pole
56 A	0.09	0.06	0.04									
56 B	0.12	0.09	0.06									
63 A	0.18	0.12										
63 B	0.25	0.18			0.22/0.15							
63 C		0.22	0.09		0.26/0.17			0.18/0.04				
63 D			0.12	0.07								
71 A	0.37	0.25	0.18	0.08	0.25/0.18	0.13/0.07						
71 B	0.55	0.37	0.25	0.12	0.37/0.25	0.18/0.09	0.25/0.08	0.25/0.06				
71 C		0.55				0.22/0.12	0.35/0.1	0.35/0.07	0.18/0.11			
80 A	0.75	0.55	0.37	0.18	0.65/0.45	0.25/0.18	0.37/0.12	0.37/0.09	0.25/0.18	0.25/0.05		
80 B	1.1	0.75	0.55	0.25	0.88/0.62	0.37/0.25	0.55/0.18	0.55/0.12	0.37/0.25	0.37/0.07	0.45/0.07	
90 SA	1.5	1.10	0.75	0.37		0.75/0.37	0.9/0.3		0.55/0.37	0.4/0.13	0.75/0.11	
90 SB					1.3/0.9			0.75/0.18				
90 LA	2.2	1.50	1.10	0.55	1.8/1.2		1.2/0.4	1.1/0.25		0.55/0.18	1.1/0.15	
90 LB					2.2/1.5	1.1/0.6	1.4/0.5	1.3/0.3	0.75/0.55	0.75/0.22		
100 LA		2.2	1.50	0.75	2.2/1.5		1.6/0.6	1.6/0.4	1.1/0.8	0.9/0.25		
100 LB	3.0			1.1	3.1/2.3	1.6/0.9	2.2/0.8	2.2/0.5	1.5/1.0	1.1/0.35	1.85/0.25	
112 MB		3.0		1.5	4.5/3.3	2.2/1.2	3.0/1.0	3.0/0.8	2.0/1.3	1.5/0.45	3.0/0.45	
112 MC	4.0	4.0	2.2									
132 SA	5.5									2.5/0.8		
132 SB	7.5	5.5	3.0	2.2	5.0/4.5	3.0/2.0	4.0/1.3	4.0/1.1	2.2/1.5		4.0/0.65	
132 MA	9.2	7.5	4.0		6.0/5.0	4.0/2.7	5.5/1.8	5.5/1.5	3.0/2.2	3.0/1.0	5.5/0.9	2.8/0.7
132 MB			5.5	3.0	7.5/6.0	6.0/4.0	7.0/2.2	7.0/1.8	3.7/2.5	4.0/1.3	7.0/1.1	4.0/1.1
160 MA	11.0	9.2	5.5	4.0	9.5/8.0							5.5/1.3
160 MB	15.0	11.0	7.5	5.5	11.0/9.0	6.5/4.5	8.0/2.5	8.0/2.2	5.5/3.7	4.8/1.6	8.0/1.3	7.3/1.8
160 LA	18.5	15.0	9.2	7.5	13.0/11.0	9.5/6.0	11.0/3.6	11.0/3.0			11.0/1.8	
160 LB			11.0						7.5/5.0	7.3/2.4		10.0/2.5
180 LA	22.0	18.5			17.0/14.0	11.0/8.0			11.0/7.5			13.2/3.0
180 LB		22.0	15.0	11.0	20.5/17.0	14.0/9.0	16.0/6.5	16.0/4.0	13.0/8.8		16.0/2.6	
200 LA	30.0		18.5	15.0		18.0/11.0						
200 LB	37.0	30.0	22.0		24.0/20.0	21.0/13.0		18.5/4.5	15.0/10.5			16.0/4.0
225 S		37.0		18.5	37.0/30.0	30.0/18.0		24.0/6.0				19.0/4.8
225 M		45.0	30.0	22.0	45.0/35.0	35.0/25.0		30.0/7.5				24.0/6.0
250 M		55.0	37.0	30.0		42.0/30.0						30.0/7.5
280 S		75.0	45.0	37.0		45.0/33.0						45.0/10.0
280 M		90.0	55.0	45.0		55.0/40.0						55.0/12.0
315 S		110.0	75.0	55.0								
315 M		132.0	90.0	75.0		86.0/58.0						

50 Hz

IE2/IE3 - Reg. (EU) 2019/1781 - 50Hz

Motor type	P_N (kW)	RPM	In (A) 400 V 50 Hz	cos φ	Tn (Nm)	Ts / Tn	Ia / In	IE	Efficiency 50 Hz			Weight (Kg)
									100%	75%	50%	
2 pole												
SM 56 A2	0.09	2820	0.38	0.60	0.30	3	3.8	***	59.3	55	42	3.0
SMX 56 B2	0.12	2750	0.45	0.72	0.42	3.0	3.3	IE2	53.6	55.0	45.0	3.0
SMX 63 A2	0.18	2800	0.63	0.69	0.61	3.0	3.6	IE2	60.4	59.3	56.6	4.5
SMX 63 B2	0.25	2780	0.73	0.76	0.86	3.5	5.0	IE2	64.8	63.7	60.8	4.5
SMX 71 A2	0.37	2810	1.00	0.76	1.26	2.6	4.5	IE2	69.5	68.4	65.3	5.5
SMX 71 B2	0.55	2810	1.40	0.76	1.86	2.6	4.5	IE2	74.1	73.0	69.7	7.5
SMX 80 A2	0.75	2849	1.74	0.77	2.52	3.6	5.7	IE3	80.7	80.2	76.6	9.5
SMX 80 B2	1.1	2865	2.50	0.77	3.66	3.3	5.4	IE3	82.7	83.0	80.9	10.5
SMX 90 SA2	1.5	2890	3.15	0.81	4.95	3.8	8.2	IE3	84.2	85.1	82.8	15.0
SMX 90 LA2	2.2	2887	4.95	0.75	7.28	4.4	8.4	IE3	85.9	85.7	84.0	16.5
SMX 100 LB2	3.0	2905	6.60	0.76	9.86	4.4	8.8	IE3	87.1	86.3	84.2	23.0
SMX 112 MC2	4.0	2935	7.80	0.84	13.0	4.6	10.5	IE3	88.1	88.5	87.0	32.0
SMX 132 SA2	5.5	2935	10.10	0.88	17.9	4.3	9.5	IE3	89.2	89.6	87.4	55.0
SMX 132 SB2	7.5	2930	13.40	0.89	24.4	4.0	9.0	IE3	90.1	91.0	90.0	60.0
SMX 160 MA2	11.0	2956	20.50	0.85	35.5	4.5	10.2	IE3	91.2	91.9	90.0	95.0
SMX 160 MB2	15.0	2956	27.50	0.86	48.5	4.6	10.3	IE3	91.9	92.0	90.7	103.0
SMX 160 LA2	18.5	2956	33.80	0.86	59.8	4.6	10.3	IE3	92.4	92.6	91.6	134.0
SMX 180 LA2	22.0	2958	36.80	0.93	71.1	4.2	10.8	IE3	92.7	92.0	91.0	180.0
SMX 200 LA2	30.0	2955	51.65	0.90	97.0	4.7	9.8	IE3	93.3	93.5	92.3	240
SMX 200 LB2	37.0	2955	62.70	0.91	119.6	4.7	9.8	IE3	93.7	94.0	92.1	240
4 pole												
SM 56 A4	0.06	1390	0.40	0.48	0.41	3	2.2	***	45	40.5	30	3.0
SM 56 B4	0.09	1320	0.41	0.61	0.65	3	2.2	***	55	50.6	38.6	3.0
SMX 63 A4	0.12	1300	0.36	0.73	0.82	2.2	2.8	IE2	59.1	59.8	54.1	3.0
SMX 63 B4	0.18	1340	0.58	0.70	1.28	2.2	2.8	IE2	64.7	62.5	51.4	4.0
SMX 63 C4	0.22	1350	0.70	0.69	1.55	2.6	3.6	IE2	67.1	67.0	66.4	4.5
SMX 71 A4	0.25	1400	0.76	0.69	1.70	2.0	3.6	IE2	68.5	66.3	61.4	5.5
SMX 71 B4	0.37	1375	1.00	0.74	2.62	2.2	3.9	IE2	72.7	73.0	70.3	6.5
SMX 71 C4	0.55	1360	1.43	0.72	3.86	2.4	4.2	IE2	77.1	78.2	75.1	7.5
SMX 80 A4	0.55	1410	1.41	0.72	3.70	2.4	4.3	IE2	77.1	76.4	73.5	10.0
SMX 80 S4	0.72	1400	1.9	0.70	4.98	2.9	5.3	IE2	79.6	79.5	78.0	13.0
SMX 80 B4	0.75	1415	2.0	0.67	5.06	3.1	5.6	IE3	82.5	82.8	81.2	10.0
SMX 90 SA4	1.1	1428	2.6	0.73	7.37	3.4	5.7	IE3	84.1	84.3	82.6	15.0
SMX 90 LA4	1.5	1430	3.5	0.74	10.0	3.5	6.2	IE3	85.3	85.2	83.6	16.5
SMX 100 LS4(*)(**)	1.85	1432	4.0	0.78	12.3	2.8	6.9	IE3	86.1	86.5	85.4	19.0
SMX 100 LA4	2.2	1440	4.8	0.76	14.5	2.9	7.0	IE3	86.7	87.0	85.4	23.0
SMX 112 MB4	3	1455	6.4	0.77	19.7	4.0	8.6	IE3	87.7	88.7	87.2	32.0
SMX 112 MC4	4	1445	8.4	0.77	26.4	3.7	7.1	IE3	88.6	88.8	87.6	37.0
SMX 132 SB4	5.5	1457	11.0	0.80	36.0	3.5	7.6	IE3	89.6	91.1	89.3	64.0
SMX 132 MA4	7.5	1457	14.9	0.82	49.2	3.3	7.9	IE3	90.4	90.7	90.2	71.0
SMX 160 MB4	11.0	1460	22.3	0.78	71.5	3.8	9.1	IE3	91.4	91.6	91.0	108
SMX 160 LA4	15.0	1470	30.2	0.78	97.4	3.5	9.1	IE3	92.1	92.3	91.8	134
SMX 180 LA4	18.5	1475	37.1	0.78	119.8	3.5	9.1	IE3	92.6	92.6	91.7	180
SMX 180 LB4	22.0	1472	41.7	0.82	142.4	4.3	8.6	IE3	93.0	93.0	92.0	180
SMX 200 LB4	30.0	1475	53.2	0.87	194.2	2.9	8.4	IE3	93.6	93.4	93.4	230
SMX 225 S4	37.0	1480	66.2	0.86	238.7	2.7	8.5	IE3	93.9	94.4	91.9	315
SMX 225 M4	45.0	1480	79.3	0.87	290.4	2.8	8.8	IE3	94.2	94.7	92.2	380
SMX 250 M4	55.0	1480	96.6	0.87	354.9	3.2	9.8	IE3	94.6	95.1	92.6	600
SMX 280 S4	75.0	1488	136.4	0.83	481.3	2.2	7.6	IE3	95.0	95.5	95.0	700
SMX 280 M4	90.0	1488	160.7	0.84	577.6	2.2	7.6	IE3	95.2	95.5	93.2	730
SMX 315 S4	110.0	1489	193.5	0.86	705.5	2.6	9.2	IE3	95.4	95.9	93.4	1005
SMX 315 M4	132.0	1489	231.7	0.86	846.6	2.7	9.2	IE3	95.6	96.1	93.6	1205

*** La norma EN 60034-30-1 specifica le classi di efficienza IE per motori con potenza compresa tra 0.12 kW e 1000 kW. Per motori con potenza inferiore a 0,12 kW non è quindi possibile definire la classe di efficienza, inoltre questi motori sono fuori dallo scopo del regolamento EU 2019/1781. The EN 60034-30-1 standard specifies the IE efficiency classes for motors with power between 0.12 kW and 1000 kW. For motors with power lower than 0.12 kW it is therefore not possible to define the efficiency class, moreover these motors are outside the scope of the EU regulation 2019/1781.

1. I valori indicati si riferiscono al funzionamento del motore con alimentazione a 400V 50 Hz, temperatura esterna max 40 °C, altitudine fino a 1000 m s.l.m., servizio continuo (S1). - Motor characteristic values reported in the tables refer to continuous duty (S1), 50 Hz frequency, ambient temperature max. 40 °C, altitude up to 1000 m above sea level operating condition.
2. Il motore contrassegnato con * può essere fornito con albero e flangia ridotta con le dimensioni relative all'altezza d'asse 90. - The motor marked with * can be supplied with reduced shaft and flange with the dimensions related to the frame size 90.
3. I motori riportano in targa i dati relativi al funzionamento sia a 50 Hz che a 60 Hz con il medesimo valore di potenza ad esclusione dei motori contrassegnati con **. - The motors nameplates have the data relating to operation at both 50 Hz and 60 Hz with the same power value except for the motors marked with **.
4. La MGM motori elettrici SpA si adopera per mantenere i dati forniti il più possibile aggiornati e corretti. Dal momento che i prodotti sono oggetto di continue modifiche e miglioramenti i dati indicati non possono tuttavia essere considerati impegnativi. I dati indicati inoltre si devono intendere come informazioni di carattere generale sul prodotto. Per specifiche applicazioni Vi raccomandiamo di contattare lo staff della MGM. - MGM keeps the data provided as up-to-date and correct as possible. Since the products are subject to changes and improvements, the data indicated cannot be considered binding. The data indicated must also be understood as being general in nature. For specific applications, please contact the MGM staff.

50 Hz

IE2/IE3 - Reg. (EU) 2019/1781 - 50Hz

Motor type	P_N (kW)	RPM	In (A) 400 V 50 Hz	cos φ	Tn (Nm)	Ts / Tn	Ia / In	IE	Efficiency 100%	Efficiency 75%	Efficiency 50%	Weight (Kg)
6 pole												
SM 56 B6	0.06	850	0.45	0.71	0.67	1.9	0.5	***	25.6	24.0	17.0	3.0
SM 63 C6	0.09	890	0.50	0.56	0.97	2.4	1.9	***	42.7	38.5	30.6	4.5
SMX 63 D6	0.12	865	0.62	0.55	1.3	2.7	1.9	IE2	50.6	50.4	48.5	5.0
SMX 71 A6	0.18	900	0.61	0.69	2.1	2.0	2.6	IE2	56.6	56.7	52.8	7.0
SMX 71 B6	0.25	875	0.80	0.70	2.8	1.6	2.8	IE2	61.6	62.1	57.4	8.0
SMX 80 A6	0.37	940	1.3	0.57	3.8	2.7	3.5	IE2	67.6	67.5	60.8	10.0
SMX 80 B6	0.55	920	1.7	0.63	5.7	2.8	3.5	IE2	73.1	72.8	69.2	11.0
SMX 90 SA6**	0.75	935	2.1	0.66	7.7	2.5	5.5	IE3	78.9	79.4	77.2	15.0
SMX 90 LA6**	1.1	935	3.3	0.61	11.2	3.1	4.6	IE3	81.0	81.4	79.2	16.5
SMX 100 LA6**	1.5	955	4.0	0.66	15.2	3.0	5.3	IE3	82.5	82.1	79.1	23.0
SMX 112 MC6**	2.2	960	5.0	0.75	21.9	2.4	6.4	IE3	84.3	84.4	82.5	37.0
SMX 132 SB6**	3.0	965	6.8	0.75	29.7	3.1	8.1	IE3	85.6	85.8	83.8	56.0
SMX 132 MA6**	4.0	965	9.2	0.72	39.6	3.1	6.7	IE3	86.8	88.2	87.1	67.0
SMX 132 MB6**	5.5	965	12.5	0.72	54.4	3.0	6.6	IE3	88.0	88.2	86.6	73
SMX 160 MB6	7.5	965	15.8	0.76	74.2	3.0	7.2	IE3	89.1	89.3	88.2	85
SMX 160 LB6	11	965	22.9	0.77	108.9	2.7	9.1	IE3	90.3	90.5	88.5	153
SMX 180 LB6	15	978	31.3	0.76	147.7	3.1	9.1	IE3	91.2	91.2	90.0	180
SMX 200 LA6	18.5	980	37.4	0.80	180.3	3.7	8.6	IE3	91.7	91.8	89.9	240
SMX 200 LB6	22	975	43.1	0.80	215.5	3.1	7.3	IE3	92.2	92.3	90.4	240
SMX 225 M6	30	985	57.9	0.80	291.4	3.7	7.7	IE3	92.9	93.2	92.9	360
SMX 250 M6	37	980	68.2	0.84	360.5	3.2	7.9	IE3	93.3	93.4	91.5	490
SMX 280 S6	45	987	88.8	0.78	436.3	2.8	6.0	IE3	93.7	93.8	91.9	610
SMX 280 M6	55	987	108.1	0.78	533.2	2.8	6.6	IE3	94.1	94.2	92.3	650
SMX 315 S6	75	988	141.3	0.81	724.9	2.6	7.0	IE3	94.6	94.7	92.8	1005
SMX 315 M6	90	988	169.0	0.81	869.9	2.6	7.0	IE3	94.9	95.0	93.1	1205
8 pole												
SM 63 D8	0.07	650	0.45	0.62	1.03	2.2	1.6	***	28.0	27.0	19.0	5.0
SM 71 A8	0.08	660	0.60	0.53	1.16	2.0	2.0	***	42.9	38.6	30.7	6.5
SMX 71 B8	0.12	680	0.70	0.54	1.7	2.2	2.2	IE2	39.80	40.2	38.0	7
SMX 80 A8	0.18	690	0.86	0.60	2.5	2.2	2.4	IE2	45.90	46.3	44.1	10
SMX 80 B8	0.25	675	1.10	0.61	3.5	2.2	2.4	IE2	50.60	51.0	48.8	11
SMX 90 SA8	0.37	690	1.52	0.59	5.1	2.3	3.2	IE2	56.10	56.5	54.3	11.5
SMX 90 LA8	0.55	690	2.30	0.56	7.6	2.3	3.1	IE2	61.70	62.1	59.9	15.0
SMX 100 LA8	0.75	700	2.60	0.56	10.2	2.3	3.3	IE3	75.00	75.2	73.2	23.0
SMX 100 LB8	1.1	700	3.80	0.54	15.0	2.4	4.4	IE3	77.70	77.9	75.9	23.0
SMX 112 MB8	1.5	720	4.80	0.57	19.9	2.2	5.0	IE3	79.70	79.9	77.9	32
SMX 132 SB8	2.2	710	5.55	0.70	29.6	2.3	5.2	IE3	81.90	82.1	80.1	55
SMX 132 MB8	3	710	7.40	0.70	40.4	2.3	5.2	IE3	83.50	83.7	81.7	58
SMX 160 MA8	4	725	9.60	0.71	52.7	2.5	6.7	IE3	84.80	84.9	83.0	123
SMX 160 MB8	5.5	725	13.40	0.69	72.4	2.5	6.7	IE3	86.20	86.3	84.4	123
SMX 160 LA8	7.5	725	18.30	0.68	98.8	2.5	6.7	IE3	87.30	87.4	85.5	141
SMX 180 LB8	11	730	26.10	0.69	143.9	2.4	5.7	IE3	88.60	88.7	86.8	200
SMX 200 LA8	15	735	34.70	0.70	194.9	2.1	6.5	IE3	89.60	89.7	87.8	240
SMX 225 S8	18.5	740	44.00	0.67	238.7	2.4	7.5	IE3	90.10	90.1	88.3	370
SMX 225 M8	22	735	49.40	0.70	285.8	2.1	7.0	IE3	90.60	90.6	89.0	380
SMX 250 M8	30	740	64.17	0.74	387.1	2.1	6.8	IE3	91.30	91.3	89.5	605
SMX 280 S8	37	745	75.64	0.77	474.3	2.2	7.0	IE3	91.80	91.8	90.0	650
SMX 280 M8	45	745	90.42	0.78	576.8	2.2	7.2	IE3	92.20	92.2	90.4	690

*** La norma EN 60034-30-1 specifica le classi di efficienza IE per motori con potenza compresa tra 0.12 kW e 1000 kW. Per motori con potenza inferiore a 0,12 kW non è quindi possibile definire la classe di efficienza, inoltre questi motori sono fuori dallo scopo del regolamento EU 2019/1781. The EN 60034-30-1 standard specifies the IE efficiency classes for motors with power between 0.12 kW and 1000 kW. For motors with power lower than 0.12 kW it is therefore not possible to define the efficiency class, moreover these motors are outside the scope of the EU regulation 2019/1781.

1. I valori indicati si riferiscono al funzionamento del motore con alimentazione a 400V 50 Hz, temperatura esterna max 40 °C, altitudine fino a 1000 m s.l.m., servizio continuo (S1). - Motor characteristic values reported in the tables refer to continuous duty (S1), 50 Hz frequency, ambient temperature max. 40 °C, altitude up to 1000 m above sea level operating condition.
2. I motori riportano in targa i dati relativi al funzionamento sia a 50 Hz che a 60 Hz con il medesimo valore di potenza ad esclusione dei motori contrassegnati con **. - The motors nameplates have the data relating to operation at both 50 Hz and 60 Hz with the same power value except for the motors marked with **.
3. La MGM motori elettrici SpA si adopera per mantenere i dati forniti il più possibile aggiornati e corretti. Dal momento che i prodotti sono oggetto di continue modifiche e miglioramenti i dati indicati non possono tuttavia essere considerati impegnativi. I dati indicati inoltre si devono intendere come informazioni di carattere generale sul prodotto. Per specifiche applicazioni Vi raccomandiamo di contattare lo staff della MGM. - MGM keeps the data provided as up-to-date and correct as possible. Since the products are subject to changes and improvements, the data indicated cannot be considered binding. The data indicated must also be understood as being general in nature. For specific applications, please contact the MGM staff.

60 Hz

IE3 (Premium) Efficiency - 60Hz

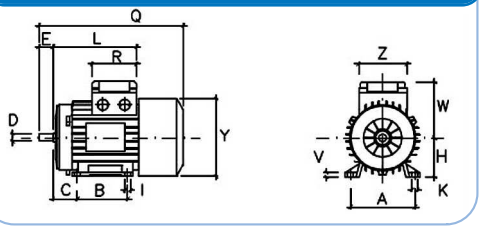
Motor type	Power		RPM	In (A) 230V 60Hz	In (A) 460V 60Hz	In (A) 575V 60Hz	cos φ 100%	Eff. 100%	Eff. 75%	Eff. 50%	Tn		Ts/Tn	Is/In	Code	Weight (Kg)
	Hp	kW									Nm	lb in				
2 pole - 3600 RPM																
SMX 63 A2 *	0.25	0.18	3400	1.04	0.52	0.42	0.68	64.00	63.00	56.00	0.51	4.51	3.7	4.8	J	4.5
SMX 63 B2 *	0.33	0.25	3360	1.44	0.72	0.57	0.66	68.00	69.00	62.00	0.71	6.28	3.1	4.0	H	4.5
SMX 71 A2 *	0.50	0.37	3440	1.92	0.96	0.65	0.68	72.00	69.00	62.00	1.03	9.1	3.3	5	J	5.5
SMX 71 B2 *	0.75	0.55	3440	2.80	1.40	1.12	0.67	74.00	72.00	67.00	1.53	13.5	3.3	5.3	J	7.5
SMX 80 A2	1.0	0.75	3465	3.30	1.65	1.32	0.77	77.00	79.30	74.70	2.08	18.4	3.6	5.8	J	9.5
SMX 90 SA2	1.5	1.1	3540	4.26	2.13	1.70	0.77	84.00	82.40	77.90	2.97	26.3	4.1	9.3	M	15.0
SMX 90 LA2	2.0	1.5	3535	5.64	2.82	2.25	0.78	85.50	85.00	81.20	4.05	35.8	5.0	9.3	M	16.5
SMX 100 LA2	3.0	2.2	3532	8.00	4.00	3.20	0.78	86.50	87.56	85.00	5.94	52.6	5.6	10.0	M	17.5
SMX 112 MC2	5.0	3.7	3550	12.9	6.45	5.20	0.83	88.50	89.20	87.40	9.95	88.1	6.0	10.8	M	32.0
SMX 132 SA2	7.5	5.5	3550	18.0	9.00	7.20	0.82	89.50	88.00	86.70	14.8	131.0	4.2	9.8	L	62.0
SMX 132 SB2	10.0	7.5	3550	24.0	12.0	9.60	0.85	90.20	91.00	89.10	20.2	178.8	4.1	9.3	K	68.0
SMX 160 MA2	15.0	11.0	3562	36.0	18.0	14.4	0.85	91.00	89.20	88.60	29.5	261.1	5.8	10.3	L	95.0
SMX 160 MB2	20.0	15.0	3562	48.8	24.4	19.5	0.85	91.00	90.70	89.30	40.2	355.8	4.2	10.3	M	103
SMX 160 LA2	25.0	18.5	3562	58.2	29.1	23.3	0.86	91.70	92.90	91.30	49.6	439.0	4.8	10.6	L	134
SMX 180 LA2	30.0	22.0	3565	68.6	34.3	27.4	0.88	91.70	92.80	91.20	58.9	521.3	5.1	10.4	L	180
SMX 200 LA2	40.0	30.0	3566	92.6	46.3	37.0	0.86	92.40	92.50	91.30	80.3	710.7	6.2	10.0	L	240
SMX 200 LB2	50.0	37.0	3564	113.6	56.8	45.4	0.88	93.00	93.20	92.60	99.1	877.1	5.0	9.8	K	240
4 pole - 1800 RPM																
SMX 63 B4 *	0.25	0.18	1670	1.24	0.62	0.5	0.56	68.00	64.00	57.00	1.03	9.1	3.9	3.7	J	5.0
SMX 71 A4 *	0.33	0.25	1680	1.50	0.75	0.6	0.62	70.00	69.40	64.10	1.42	12.6	2.9	4.0	J	5.5
SMX 71 B4 *	0.50	0.37	1690	1.82	0.91	0.73	0.71	72.00	70.00	64.00	2.09	18.5	2.6	4.4	H	6.5
SMX 80 A4 *	0.75	0.55	1710	2.66	1.33	1.06	0.69	75.50	75.10	72.40	3.07	27.2	3.1	5.3	J	10.5
SMX 80 B4	1.0	0.75	1730	3.20	1.60	1.30	0.70	85.50	85.40	83.40	4.14	36.6	3.6	6.6	K	12.5
SMX 90 SA4	1.5	1.1	1739	4.60	2.30	1.84	0.68	86.50	85.60	83.30	6.04	53.5	4.1	7.0	K	15.0
SMX 90 LA4	2.0	1.5	1739	6.20	3.10	2.50	0.70	86.50	86.50	84.20	8.2	72.6	4.1	7.1	K	16.5
SMX 100 LA4	3.0	2.2	1750	8.60	4.30	3.44	0.73	89.50	88.90	87.00	12.0	106.2	4.1	7.4	K	23.0
SMX 112 MB4	4.0	3.0	1757	11.2	5.60	4.50	0.75	89.50	89.40	87.40	16.3	144.3	4.2	9.1	M	32.0
SMX 112 MC4	5.0	3.7	1757	14.0	7.00	5.60	0.73	89.50	89.40	87.10	20.1	177.9	4.0	8.8	L	37.0
SMX 132 SB4	7.5	5.5	1765	19.6	9.80	7.84	0.77	91.70	90.70	89.30	29.8	263.8	4.0	8.7	L	64.0
SMX 132 MA4	10.0	7.5	1765	26.4	13.2	10.6	0.78	91.70	92.00	91.10	40.6	359.3	3.7	9.1	L	71.0
SMX 160 MA4	12.5	9.2	1770	33.2	16.6	13.3	0.76	91.70	92.10	90.60	49.6	439.0	5.0	9.5	M	108
SMX 160 MB4	15.0	11.0	1768	39.2	19.6	15.7	0.80	92.40	92.90	92.40	59.4	525.7	4.2	8.3	K	108
SMX 160 LA4	20.0	15.0	1768	52.6	26.3	21.0	0.77	93.00	93.20	93.00	81.0	716.9	4.1	8.0	K	134
SMX 180 LA4	25.0	18.5	1778	65.2	32.6	26.1	0.76	93.60	93.30	92.00	99.4	879.8	4.7	8.0	K	180
SMX 180 LB4	30.0	22.0	1775	75.0	37.5	30.0	0.78	93.60	93.00	92.30	118.4	1047.9	4.0	6.9	H	180
SMX 200 LB4	40.0	30.0	1777	94.0	47.0	37.6	0.86	94.10	94.30	93.70	162.0	1433.8	3.4	9.4	K	230
SMX 225 S4	50.0	37.0	1779	115.6	57.8	46.2	0.85	94.50	94.70	94.00	198.6	1757.8	3.3	9.5	K	315
SMX 225 M4	60.0	45.0	1779	138.4	69.2	55.4	0.86	95.00	95.20	94.20	241.6	2138.3	3.3	9.5	K	380
6 pole - 1200 RPM																
SMX 90 LA6	1.0	0.75	1140	3.50	1.75	1.40	0.66	82.50	82.20	79.30	6.3	55.8	5.1	8.3	N	16.5
SMX 100 LA6	1.5	1.1	1160	6.00	3.00	2.40	0.67	87.50	87.70	84.30	9.1	80.5	5.1	8.3	P	23.0
SMX 112 MB6	2.0	1.5	1170	7.20	3.60	2.90	0.67	88.50	88.70	85.30	12.2	108.0	5.1	8.6	N	32.0
SMX 132 SB6	3.0	2.2	1172	8.80	4.40	3.52	0.70	89.50	89.70	86.30	17.9	158.4	4.7	8.9	N	72.0
SMX 132 MA6	4.0	3.0	1172	12.0	6.00	4.80	0.70	89.50	89.70	87.70	24.4	216.0	4.1	7.5	K	77.0
SMX 132 MB6	5.0	3.7	1172	15.6	7.80	6.24	0.66	89.50	89.00	86.70	29.7	266.4	4.1	7.6	L	77.0
SMX 160 MA6	7.5	5.5	1175	20.2	10.1	8.10	0.75	91.00	91.10	87.80	44.7	395.6	3.7	8.6	L	85.0
SMX 160 MB6	10.0	7.5	1175	28.4	14.2	11.4	0.73	91.00	91.10	87.80	61.0	539.9	3.6	8.3	L	85.0
SMX 160 LA6	12.5	9.2	1177	34.0	17.0	13.6	0.71	91.00	91.10	87.80	74.6	660.3	4.8	9.8	M	134
SMX 160 LB6	15.0	11	1175	39.2	19.6	15.7	0.75	91.70	91.80	88.50	89.4	791.3	4.0	8.7	L	155
SMX 180 LB6	20.0	15	1175	56.0	28.0	22.4	0.73	91.70	91.80	90.20	121.9	1078.9	3.6	8.9	L	180
SMX 200 LA6	25.0	18.5	1181	66.6	33.3	26.6	0.75	93.00	93.20	89.80	149.6	1324.1	4.1	8.6	L	240
SMX 200 LB6	30.0	22	1180	76.2	38.1	30.5	0.78	93.00	93.20	89.80	178.0	1575.4	3.4	7.9	J	240
SMX 225 M6	40.0	30	1188	101.2	50.6	40.5	0.79	94.10	94.40	94.00	241.2	2134.8	3.6	8.3	K	360
SMX 250 M6	50.0	37	1188	125.0	62.5	50.0	0.79	94.10	94.40	94.00	297.4	2632.2	3.6	8.3	K	490

L'asterisco (*) dopo il tipo motore indica motori con classe di efficienza è IE2 - The '*' beside the motor type identifies motors with IE2 efficiency class.

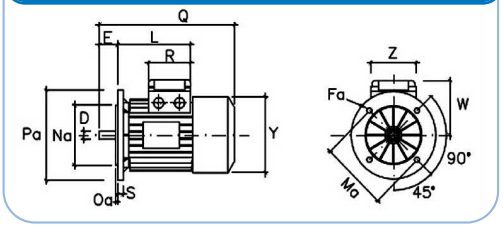
1. I valori indicati si riferiscono al funzionamento del motore con alimentazione a 400V 50 hz, temperatura esterna max 40°C, altitudine fino a 1000 m s.l.m., servizio continuo (S1). - Motor characteristic values reported on the tables, refer to operating conditions at a maximum ambient temperature of 40 °C and an altitude up to 1000 m. above sea level.
2. La MGM motori elettrici SpA si adopera per mantenere i dati forniti il più possibile aggiornati e corretti. Dal momento che i prodotti sono oggetto di continue modifiche e miglioramenti i dati indicati non possono tuttavia essere considerati impegnativi. I dati indicati inoltre si devono intendere come informazioni di carattere generale sul prodotto. Per specifiche applicazioni vi raccomandiamo di contattare lo staff della MGM. - MGM Motori Elettrici S.p.A. has made every effort to make this data complete and accurate. Since products are continuously being improved, all data is subject to change or correction. The data presented here is for general information to provide an overview of MGM capabilities. For specific applications, installation and operating instructions, certified dimensions, capabilities and performance data, and pricing and availability, contact MGM staff.

	56	63	71	80	90S****	90L	100L***	112M***	132S***	132M	160M	160L	180L	200L**	225S*	225M
A	90	100	112	125	140	140	160	190	216	216	254	254	279	318	356	356
B	71	80	90	100	100	125	140	140	140	178	210	254	279	305	286	311
C	36	40	45	50	56	56	63	70	89	89	108	108	121	133	149	149
D*	9	11	14	19	24	24	28	28	38	38	42	42	48	55	60	60
d	M3	M4	M5	M6	M8	M8	M10	M10	M12	M12	M16	M16	M16	M16	M16	M16
E*	20	23	30	40	50	50	60	60	80	80	110	110	110	110	140	140
Fa	6.6	9.5	9.5	11.5	11.5	11.5	14.5	14.5	14.5	14.5	18.5	18.5	18.5	18.5	18.5	18.5
Fb	M5	M5	M6	M6	M8	M8	M8	M8	M10	M10						
f	3	4	5	6	8	8	8	8	10	10	12	12	14	16	18	18
g	7.2	8.5	11	15.5	20	20	24	24	33	33	37	37	42.5	49	53	53
H	56	63	71	80	90	90	100	112	132	132	160	160	180	200	225	225
h	3	4	5	6	7	7	7	7	8	8	8	8	9	10	11	11
I	6	7	7	10	10	10	12	12	12	12	14.5	14.5	15	18.5	18	18
K	11	10.5	10.5	14	14	14	16	16	22	22	24	24	24	30	33	33
L	99	111	117	123	140	140	152	153	171	171						
L1		167	145	150	177	177	188	254	262	300	373	395	420	446	452	464.5
Ma	100	115	130	165	165	165	215	215	265	265	300	300	300	350	400	400
Mb	65	75	85	100	115	115	130	130	165	165						
Na	80	95	110	130	130	130	180	180	230	230	250	250	250	300	350	350
Nb	50	60	70	80	95	95	110	110	130	130						
Oa	3	3	3.5	3.5	3.5	3.5	4	4	4	4	5	5	5	5	5	5
Ob	2.5	2.5	2.5	3	3	3	3.5	3.5	3.5	3.5						
Pa	120	140	160	200	200	200	250	250	300	300	350	350	350	400	450	450
Pb	80	90	105	120	140	140	160	160	200	200						
Q	193	223	253	202	305	330	373	390	468	506	602	646	706	731	808	833
R	75	80	80	80	98.5	98.5	98.5	98.5	108	108						
R1		135	135	135	170	170	170	170	170	199	268	268	268	268	268	268
S	6	10	10	12	12	12	14	14	15	15	15	15	15	15	16	16
V	7	7	8	9.5	10.5	10.5	12.5	13.5	16	16	21	21	24	24	30	30
W	93	97	105	113	127	127	138	158	198	198	158	158	188	188	218	218
W1		111	121	131	148	148	162	162	176	210	246	246	266	266	322	322
Y	110	120	138	155	174	174	192	217	260	260	315	315	355	355	430	430
Z	75	75	75	75	98.5	98.5	98.5	98.5	108	108						
Z1		86	86	86	112	112	112	112	112	151	167	167	167	167	167	167

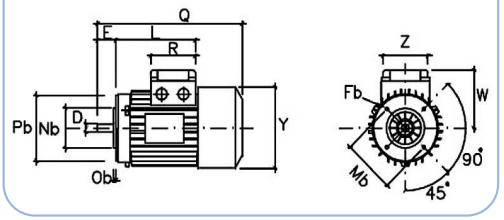
B3



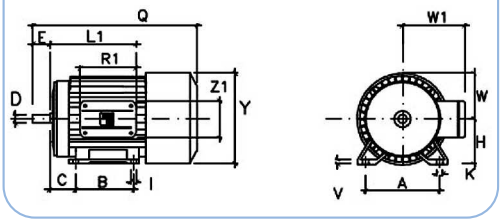
B5



B14



160÷225 B3



I fori per pressacavi sono M20 per motori taglia 71/80, M25 per motori taglia 90/100/112, M32 per motori taglia 132, M40 per motori taglia 160/180/200, M50 per motori taglia 225/250

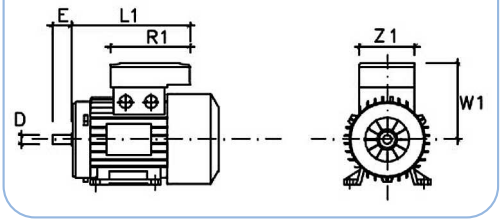
* 225S-225M 2 poli D=55 E=110, 250M 2 poli D=60 E=140, 280S-280M 2 poli D=65 E=140, 315 2 poli D=65 E=140

** Le quote indicate in tabella si riferiscono al motore serie SMX 200, i motori SMD-SMDA 200 hanno le seguenti quote: R1=268, L1=446, Q=890, Z1=167, w1=266

***I motori altezza d'asse 100-112 con doppia scatola e forma costruttiva B3 hanno le seguenti quote: altezza d'asse 100 (L1 = 254, R1 = 170, w1=162, Z1 = 112), altezza d'asse 112 (L1 = 262, R1 = 170, w1 = 176, Z1 = 112).

****Per i motori 90S in versione carcassa lunga si consideri come dimensioni quelle della colonna 90L. Sono disponibili su richiesta, motori con morsettiera laterale (sinistra o destra). Contattare MGM per maggiori informazioni.

Double terminal board box - Scatola morsettiera doppia



Cable glands are M20 on size 71 and 80, M25 on size 90 and 112, M32 on size 132 M40 on size 160 and 200, M50 on size 225/250

* 225S-225M 2 poli D=55 E=110, 250M 2 poli D=60 E=140, 280S-280M 2 poli D=65 E=140, 315 2 poli D=65 E=140

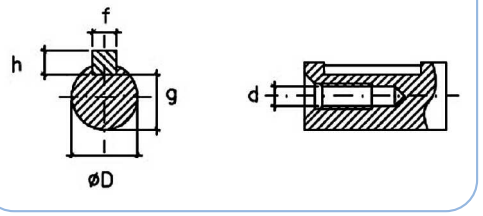
** The dimensions indicated in the table refer to the BAX 200 series motor, the BA200 motors have the following dimensions: R1 = 268, L1 = 446, Q = 890, Z1 = 167, w1 = 266

***Frame size 100-112 motors with double box and footmounted have the following dimensions: frame size 100 (L1 = 254, R1 = 170, w1 = 162, Z1 = 112), frame size 112 (L1 = 262, R1 = 170, w1 = 176, Z1 = 112).

**** For 90S motors in the long casing version, consider the dimensions of the 90L column.

Motors with the terminal board box on the side (left or right) are available on request. Please contact MGM for further information.

Shaft End - Estremità dell'albero



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