

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

Series	Motor type	P _N (kW)	r.p.m	I _n (A) 400 V 50 Hz	T _n (Nm)	T _s / T _n	I _a / I _n	IE	100%		75%		50%	
									Efficiency	cos φ	Efficiency	cos φ	Efficiency	cos φ
2 pole														
SMX	56 B2	0.12	2750	0.45	0.42	3.0	3.3	IE2	53.6	0.72	55.0	0.62	45.0	0.49
SMX	63 A2	0.18	2800	0.63	0.61	3.0	3.6	IE2	60.4	0.69	59.3	0.60	56.6	0.54
SMX	63 B2	0.25	2780	0.73	0.86	3.5	5.0	IE2	64.8	0.76	63.7	0.67	60.8	0.62
SMX	71 A2	0.37	2810	1.00	1.26	2.6	4.5	IE2	69.5	0.76	68.4	0.67	65.3	0.63
SMX	71 B2	0.55	2810	1.40	1.86	2.6	4.5	IE2	74.1	0.76	73.0	0.67	69.7	0.61
SMX	80 A2	0.75	2849	1.74	2.52	3.6	5.7	IE3	80.7	0.77	80.2	0.68	76.6	0.54
SMX	80 B2	1.1	2865	2.50	3.66	3.3	5.4	IE3	82.7	0.77	83.0	0.73	80.9	0.58
SMX	90 SA2	1.5	2890	3.15	4.95	3.8	8.2	IE3	84.2	0.81	85.1	0.75	82.8	0.63
SMX	90 LA2	2.2	2887	4.95	7.28	4.4	8.4	IE3	85.9	0.75	85.7	0.66	84.0	0.53
SMX	100 LB2	3.0	2905	6.60	9.86	4.4	8.8	IE3	87.1	0.76	86.3	0.68	84.2	0.54
SMX	112 MC2	4.0	2935	7.80	13.0	4.6	10.5	IE3	88.1	0.84	88.5	0.79	87.0	0.69
SMX	132 SA2	5.5	2935	10.10	17.9	4.3	9.5	IE3	89.2	0.88	89.6	0.85	87.4	0.73
SMX	132 SB2	7.5	2930	13.40	24.4	4.0	9.0	IE3	90.1	0.89	91.0	0.85	90.0	0.77
SMX	160 MA2	11.0	2956	20.50	35.5	4.5	10.2	IE3	91.2	0.85	91.9	0.80	90.0	0.78
SMX	160 MB2	15.0	2956	27.50	48.5	4.6	10.3	IE3	91.9	0.86	92.0	0.80	90.7	0.69
SMX	160 LA2	18.5	2956	33.80	59.8	4.6	10.3	IE3	92.4	0.86	92.6	0.81	91.6	0.71
SMX	180 LA2	22.0	2958	36.80	71.1	4.2	10.8	IE3	92.7	0.93	92.0	0.92	91.0	0.88
SMX	200 LA2	30.0	2955	51.65	97.0	4.7	9.8	IE3	93.3	0.90	93.5	0.87	92.3	0.81
SMX	200 LB2	37.0	2955	62.70	119.6	4.7	9.8	IE3	93.7	0.91	94.0	0.85	92.1	0.80
4 pole														
SMX	63 A4	0.12	1300	0.36	0.82	2.2	2.8	IE2	59.1	0.73	59.8	0.61	54.1	0.46
SMX	63 B4	0.18	1340	0.58	1.28	2.2	2.8	IE2	64.7	0.70	62.5	0.60	51.4	0.46
SMX	63 C4	0.22	1350	0.70	1.55	2.6	3.6	IE2	67.1	0.69	67.0	0.62	66.4	0.47
SMX	71 A4	0.25	1400	0.76	1.70	2.0	3.6	IE2	68.5	0.69	66.3	0.59	61.4	0.47
SMX	71 B4	0.37	1375	1.00	2.62	2.2	3.9	IE2	72.7	0.74	73.0	0.65	70.3	0.50
SMX	71 C4	0.55	1360	1.43	3.86	2.4	4.2	IE2	77.1	0.72	78.2	0.63	75.1	0.50
SMX	80 A4	0.55	1410	1.41	3.70	2.4	4.3	IE2	77.1	0.72	76.4	0.62	73.5	0.50
SMX	80 S4	0.72	1400	1.9	4.98	2.9	5.3	IE2	79.6	0.70	79.5	0.62	78.0	0.50
SMX	80 B4	0.75	1415	2.0	5.06	3.1	5.6	IE3	82.5	0.67	82.8	0.60	81.2	0.47
SMX	90 SA4	1.1	1428	2.6	7.37	3.4	5.7	IE3	84.1	0.73	84.3	0.64	82.6	0.50
SMX	90 LA4	1.5	1430	3.5	10.0	3.5	6.2	IE3	85.3	0.74	85.2	0.64	83.6	0.50
SMX	100 LS4(**)**	1.85	1432	4.0	12.3	2.8	6.9	IE3	86.1	0.78	86.5	0.69	85.4	0.56
SMX	100 LA4	2.2	1440	4.8	14.5	2.9	7.0	IE3	86.7	0.76	87.0	0.67	85.4	0.54
SMX	112 MB4	3	1455	6.4	19.7	4.0	8.6	IE3	87.7	0.77	88.7	0.69	87.2	0.55
SMX	112 MC4	4	1445	8.4	26.4	3.7	7.1	IE3	88.6	0.77	88.8	0.69	87.6	0.55
SMX	132 SB4	5.5	1457	11.0	36.0	3.5	7.6	IE3	89.6	0.80	91.1	0.74	89.3	0.62
SMX	132 MA4	7.5	1457	14.9	49.2	3.3	7.9	IE3	90.4	0.82	90.7	0.75	90.2	0.63
SMX	160 MB4	11.0	1460	22.3	71.5	3.8	9.1	IE3	91.4	0.78	91.6	0.71	91.0	0.59
SMX	160 LA4	15.0	1470	30.2	97.4	3.5	9.1	IE3	92.1	0.78	92.3	0.71	91.8	0.59
SMX	180 LA4	18.5	1475	37.1	119.8	3.5	9.1	IE3	92.6	0.78	92.6	0.72	91.7	0.59
SMX	180 LB4	22.0	1472	41.7	142.4	4.3	8.6	IE3	93.0	0.82	93.0	0.73	92.0	0.68
SMX	200 LB4	30.0	1475	53.2	194.2	2.9	8.4	IE3	93.6	0.87	93.4	0.84	93.4	0.75
SMX	225 S4	37.0	1480	66.2	238.7	2.7	8.5	IE3	93.9	0.86	94.4	0.77	91.9	0.72
SMX	225 M4	45.0	1480	79.3	290.4	2.8	8.8	IE3	94.2	0.87	94.7	0.78	92.2	0.73
SMX	250 M4	55.0	1480	96.6	354.9	3.2	9.8	IE3	94.6	0.87	95.1	0.78	92.6	0.73
SMX	280 S4	75.0	1488	136.4	481.3	2.2	7.6	IE3	95.0	0.83	95.5	0.79	95.0	0.69
SMX	280 M4	90.0	1488	160.7	577.6	2.2	7.6	IE3	95.2	0.84	95.5	0.75	93.2	0.70
SMX	315 S4	110.0	1489	193.5	705.5	2.6	9.2	IE3	95.4	0.86	95.9	0.77	93.4	0.72
SMX	315 M4	132.0	1489	231.7	846.6	2.7	9.2	IE3	95.6	0.86	96.1	0.77	93.6	0.72

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.

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Series	Motor type	P _N (kW)	r.p.m	I _n (A) 400 V 50 Hz	T _n (Nm)	T _s / T _n	I _a / I _n	IE	100%		75%		50%		
									Efficiency	cos φ	Efficiency	cos φ	Efficiency	cos φ	
6 pole															
SMX	63 D6	0.12	865	0.62	1.3	2.7	1.9	IE2	50.6	0.55	50.4	0.50	48.5	0.42	
SMX	71 A6	0.18	900	0.61	2.1	2.0	2.6	IE2	56.6	0.69	56.7	0.61	52.8	0.47	
SMX	71 B6	0.25	875	0.80	2.8	1.6	2.8	IE2	61.6	0.70	62.1	0.61	57.4	0.45	
SMX	80 A6	0.37	940	1.3	3.8	2.7	3.5	IE2	67.6	0.57	67.5	0.48	60.8	0.40	
SMX	80 B6	0.55	920	1.7	5.7	2.8	3.5	IE2	73.1	0.63	72.8	0.61	69.2	0.55	
SMX	90 SA6**	0.75	935	2.1	7.7	2.5	5.5	IE3	78.9	0.66	79.4	0.57	77.2	0.52	
SMX	90 LA6**	1.1	935	3.3	11.2	3.1	4.6	IE3	81.0	0.61	81.4	0.51	79.2	0.38	
SMX	100 LA6**	1.5	955	4.0	15.2	3.0	5.3	IE3	82.5	0.66	82.1	0.56	79.1	0.43	
SMX	112 MC6**	2.2	960	5.0	21.9	2.4	6.4	IE3	84.3	0.75	84.4	0.66	82.5	0.61	
SMX	132 SB6**	3.0	965	6.8	29.7	3.1	8.1	IE3	85.6	0.75	85.8	0.66	83.8	0.61	
SMX	132 MA6**	4.0	965	9.2	39.6	3.1	6.7	IE3	86.8	0.72	88.2	0.63	87.1	0.50	
SMX	132 MB6**	5.5	965	12.5	54.4	3.0	6.6	IE3	88.0	0.72	88.2	0.63	86.6	0.50	
SMX	160 MB6	7.5	965	15.8	74.2	3.0	7.2	IE3	89.1	0.76	89.3	0.68	88.2	0.55	
SMX	160 LB6	11	965	22.9	108.9	2.7	9.1	IE3	90.3	0.77	90.5	0.68	88.5	0.63	
SMX	180 LB6	15	978	31.3	147.7	3.1	9.1	IE3	91.2	0.76	91.2	0.67	90.0	0.54	
SMX	200 LA6	18.5	980	37.4	180.3	3.7	8.6	IE3	91.7	0.80	91.8	0.71	89.9	0.58	
SMX	200 LB6	22	975	43.1	215.5	3.1	7.3	IE3	92.2	0.80	92.3	0.71	90.4	0.58	
SMX	225 M6	30	985	57.9	291.4	3.7	7.7	IE3	92.9	0.80	93.2	0.76	92.9	0.66	
SMX	250 M6	37	980	68.2	360.5	3.2	7.9	IE3	93.3	0.84	93.4	0.75	91.5	0.62	
SMX	280 S6	45	987	88.8	436.3	2.8	6.0	IE3	93.7	0.78	93.8	0.76	91.9	0.63	
SMX	280 M6	55	987	108.1	533.2	2.8	6.6	IE3	94.1	0.78	94.2	0.76	92.3	0.63	
SMX	315 S6	75	988	141.3	724.9	2.6	7.0	IE3	94.6	0.81	94.7	0.72	92.8	0.59	
SMX	315 M6	90	988	169.0	869.9	2.6	7.0	IE3	94.9	0.81	95.0	0.72	93.1	0.59	
8 pole															
SMX	71 B8	0.12	680	0.70	1.7	2.2	2.2	IE2	39.80	0.54	40.2	0.45	38.0	0.40	
SMX	80 A8	0.18	690	0.86	2.5	2.2	2.4	IE2	45.90	0.60	46.3	0.51	44.1	0.46	
SMX	80 B8	0.25	675	1.10	3.5	2.2	2.4	IE2	50.60	0.61	51.0	0.52	48.8	0.47	
SMX	90 SA8	0.37	690	1.52	5.1	2.3	3.2	IE2	56.10	0.59	56.5	0.50	54.3	0.45	
SMX	90 LA8	0.55	690	2.30	7.6	2.3	3.1	IE2	61.70	0.56	62.1	0.47	59.9	0.42	
SMX	100 LA8	0.75	700	2.60	10.2	2.3	3.3	IE3	75.00	0.56	75.2	0.46	73.2	0.34	
SMX	100 LB8	1.1	700	3.80	15.0	2.4	4.4	IE3	77.70	0.54	77.9	0.44	75.9	0.32	
SMX	112 MB8	1.5	720	4.80	19.9	2.2	5.0	IE3	79.70	0.57	79.9	0.47	77.9	0.34	
SMX	132 SB8	2.2	710	5.55	29.6	2.3	5.2	IE3	81.90	0.70	82.1	0.57	80.1	0.35	
SMX	132 MB8	3	710	7.40	40.4	2.3	5.2	IE3	83.50	0.70	83.7	0.57	81.7	0.35	
SMX	160 MA8	4	725	9.60	52.7	2.5	6.7	IE3	84.80	0.71	84.9	0.58	83.0	0.36	
SMX	160 MB8	5.5	725	13.40	72.4	2.5	6.7	IE3	86.20	0.69	86.3	0.57	84.4	0.35	
SMX	160 LA8	7.5	725	18.30	98.8	2.5	6.7	IE3	87.30	0.68	87.4	0.56	85.5	0.34	
SMX	180 LB8	11	730	26.10	143.9	2.4	5.7	IE3	88.60	0.69	88.7	0.60	86.8	0.46	
SMX	200 LA8	15	735	34.70	194.9	2.1	6.5	IE3	89.60	0.70	89.7	0.61	87.8	0.47	
SMX	225 S8	18.5	740	44.00	238.7	2.4	7.5	IE3	90.10	0.67	90.1	0.58	88.3	0.45	
SMX	225 M8	22	735	49.40	285.8	2.1	7.0	IE3	90.60	0.70	90.6	0.61	89.0	0.47	
SMX	250 M8	30	740	64.17	387.1	2.1	6.8	IE3	91.30	0.74	91.3	0.64	89.5	0.49	
SMX	280 S8	37	745	75.64	474.3	2.2	7.0	IE3	91.80	0.77	91.8	0.67	90.0	0.51	
SMX	280 M8	45	745	90.42	576.8	2.2	7.2	IE3	92.20	0.78	92.2	0.68	90.4	0.52	

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 **.
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