

**IE2/IE3 - Reg. (EU) 2019/1781 - 60Hz**

Motor type	P <sub>n</sub> (kW)	RPM	I <sub>n</sub> (A) 460 V 60Hz	cos φ	T <sub>n</sub> (Nm)	T <sub>s</sub> / T <sub>n</sub>	I <sub>s</sub> / I <sub>n</sub>	IE	Efficiency 60Hz			Moment of inertia Jx10 <sup>-4</sup> kgm <sup>2</sup>	DC brake torque (Nm)	Weight (Kg)
									100%	75%	50%			
<b>2 pole - 3600 RPM</b>														
BMX 56 B2	0.12	3300	0.36	0.71	0.35	3.3	3.8	IE2	59.5	60.9	50.0	1.85	2	4
BMX 63 A2	0.18	3360	0.52	0.68	0.51	3.3	4.0	IE2	64.0	62.9	60.2	1.93	5	5
BMX 63 B2	0.25	3336	0.62	0.75	0.72	3.9	5.5	IE2	68.0	66.9	64.0	1.93	5	5
BMX 71 A2	0.37	3440	0.96	0.68	1.03	3.7	4.8	IE2	72.0	69.0	62.0	3.35	5	7
BMX 71 B2	0.55	3440	1.40	0.67	1.53	3.3	5.3	IE2	74.0	72.0	67.0	3.95	5	8
BMX 80 A2	0.75	3465	1.65	0.77	2.08	3.6	5.8	IE3	77.0	79.3	74.7	7.29	10	12
BMX 80 B2	1.1	3465	2.48	0.76	3.03	3.7	5.2	IE3	84.0	83.5	81.0	8.61	10	13
BMX 90 SA2	1.5	3500	2.80	0.80	4.18	4.1	8.8	IE3	85.5	84.9	81.9	17.3	20	18
BMX 90 LA2	2.2	3500	4.26	0.74	5.97	4.9	9.3	IE3	86.5	86.1	83.4	19	20	22
BMX 100 LB2	3.0	3515	5.62	0.77	8.11	5.3	10.0	IE3	88.5	86.8	84.1	36.4	40	26
BMX 112 MC2	4.0	3540	6.80	0.84	10.8	4.6	12.0	IE3	88.5	87.0	84.3	83.7	60	40
BMX 132 SA2	5.5	3550	8.75	0.88	14.8	4.1	9.3	IE3	89.5	88.0	86.7	189.9	100	65
BMX 132 SB2	7.5	3550	12.3	0.86	20.2	4.2	9.8	IE3	90.2	91.0	89.1	220	100	70
BMX 160 MA2	11.0	3562	17.9	0.85	29.5	5.8	10.3	IE3	91.0	89.2	88.6	480	150	148
BMX 160 MB2	15.0	3562	24.4	0.85	40.2	4.2	10.3	IE3	91.0	90.7	89.3	480	150	148
BMX 160 LA2	18.5	3562	29.5	0.86	49.6	4.8	10.6	IE3	91.7	92.9	91.3	580	150	160
BMX 180 LA2	22.0	3565	34.3	0.88	58.9	5.1	10.4	IE3	91.7	92.8	91.2	1050	250	245
BMX 200 LA2	30.0	3566	43.8	0.93	80.3	3.5	10.0	IE3	92.5	91.3	80.3	1400	250	280
BMX 200 LB2	37.0	3564	56.7	0.93	99.1	3.3	10.7	IE3	93.2	92.6	92.6	1400	250	280
<b>4 pole - 1800 RPM</b>														
BMX 63 A4	0.12	1560	0.32	0.72	0.73	2.3	3.0	IE2	64.0	64.7	69.0	2.47	5	4.5
BMX 63 B4	0.18	1608	0.48	0.69	1.07	2.4	3.2	IE2	68.0	65.8	55.0	3.08	5	5
BMX 63 C4	0.22	1620	0.58	0.68	1.30	2.9	4.2	IE2	70.0	69.9	69.3	3.55	5	5.5
BMX 71 A4	0.25	1680	0.75	0.62	1.42	2.9	4.0	IE2	70.0	69.4	64.1	5.67	5	7
BMX 71 B4	0.37	1690	0.91	0.71	2.09	2.6	4.4	IE2	72.0	70.0	64.0	6.57	5	8
BMX 71 C4	0.55	1700	1.29	0.71	3.09	2.8	4.5	IE2	75.5	75.0	73.0	8.39	5	9.5
BMX 80 A4	0.55	1710	1.33	0.69	3.07	3.1	5.3	IE2	75.5	75.1	72.4	13.5	10	13
BMX 80 S4	0.72	1680	1.74	0.69	4.09	2.7	5.1	IE2	75.5	75.8	74.7	13.5	10	13
BMX 80 B4	0.75	1730	1.6	0.70	4.14	3.6	6.6	IE3	85.5	85.4	83.4	14.5	10	14.5
BMX 90 SA4	1.1	1739	2.3	0.68	6.04	4.1	7.0	IE3	86.5	85.6	83.3	26	20	19
BMX 90 LA4	1.5	1739	3.1	0.70	8.20	4.1	7.1	IE3	86.5	86.5	84.2	30.16	20	21.5
BMX 100 LA4	2.2	1750	4.3	0.73	12.0	4.1	7.4	IE3	89.5	88.9	87.0	53.43	40	29
BMX 112 MB4	3.0	1757	5.6	0.75	16.3	4.2	9.1	IE3	89.5	89.4	87.4	111.5	60	39
BMX 112 MC4	4.0	1755	7.8	0.73	21.7	4.1	8.9	IE3	89.5	89.4	87.1	155	60	44
BMX 132 SB4	5.5	1765	9.8	0.77	29.8	4.0	8.7	IE3	91.7	90.7	89.3	300	100	74
BMX 132 MA4	7.5	1765	13.2	0.78	40.6	3.7	9.1	IE3	91.7	92	91.1	350	100	81
BMX 160 MB4	11.0	1768	19.6	0.8	59.4	4.2	8.3	IE3	92.4	92.9	92.4	680	150	141
BMX 160 LA4	15.0	1768	26.3	0.77	81.0	4.1	8.0	IE3	93.0	93.2	93.0	850	150	160
BMX 180 LA4	18.5	1778	32.6	0.76	99.4	4.7	8.0	IE3	93.6	93.3	92.0	1750	250	250
BMX 180 LB4	22.0	1775	37.5	0.78	118.4	4.0	6.9	IE3	93.6	93.0	92.3	1750	250	250
BMX 200 LB4	30.0	1777	47.0	0.86	162.0	3.4	9.4	IE3	94.1	94.3	93.7	2700	250	275
BMX 225 S4	37.0	1779	57.8	0.85	198.6	3.3	9.5	IE3	94.5	94.7	94.0	4600	400	400
BMX 225 M4	45.0	1779	69.2	0.86	241.6	3.3	9.5	IE3	95.0	95.2	94.2	5050	400	415
BMX 250 M4	55.0	1785	83.3	0.87	294.2	2.9	9.4	IE3	95.4	95.9	95.0	7700	400	630
BMX 280 S4	75.0	1785	120.5	0.82	401.2	2.4	8.3	IE3	95.4	95.9	95.0	11000	1000	730
BMX 280 M4	90.0	1785	142.8	0.83	481.3	2.4	8.4	IE3	95.4	95.9	95.0	12600	1000	780
BMX 315 S4	110.0	1786	169.8	0.85	587.9	2.4	8.8	IE3	95.8	96.3	95.4	26500	1000	1120
BMX 315 M4	132.0	1786	202.9	0.85	705.5	2.5	8.8	IE3	96.2	96.7	95.8	30500	1000	1320

1. I valori indicati si riferiscono al funzionamento del motore con alimentazione 3-460V 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), voltage 3-400V 50 Hz, ambient temperature max. 40 °C, altitude up to 1000 m above sea level operating condition.  
 2. Il gruppo freno dei motori della serie BMX è lo stesso del corrispettivo

motore della serie BM con la medesima altezza d'asse. - BMX motor series have the same brake components as the BM with the same frame size, therefore the braking performance are the same.  
 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 in-

tendere 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.

**IE2/IE3 - Reg. (EU) 2019/1781 - 60Hz**

Motor type	P <sub>n</sub> (kW)	RPM	I <sub>n</sub> (A) 460 V 60Hz	cos φ	T <sub>n</sub> (Nm)	T <sub>s</sub> / T <sub>n</sub>	I <sub>s</sub> / I <sub>n</sub>	IE	Efficiency 60Hz			Moment of inertia Jx10 <sup>-4</sup> kgm <sup>2</sup>	DC brake torque (Nm)	Weight (Kg)
									100%	75%	50%			
<b>6 pole - 1200 RPM</b>														
BMX 63 D6	0.12	1040	0.48	0.54	1.1	2.9	2.3	IE2	57.7	57.5	55.6	3.83	5	6
BMX 71 A6	0.18	1125	0.00	0.65	1.5	2.5	2.6	IE2	60.0	62.0	58.5	10.0	5	8
BMX 71 B6	0.25	1123	0.00	0.66	2.1	1.9	2.7	IE2	59.5	59.5	56.0	10.0	5	9.0
BMX 80 A6	0.37	1135	0.00	0.56	3.1	3.0	3.5	IE2	64.0	64.1	60.2	19.1	10	12
BMX 80 B6	0.55	1104	0.00	0.62	4.8	3.1	3.5	IE2	68.0	68.3	64.5	22.9	10	13
BMX 160 MB6	7.5	1175	14.2	0.73	61.0	3.6	8.3	IE3	91.0	91.1	87.8	1000	150	145
BMX 160 LB6	11.0	1175	19.6	0.75	89.4	4.0	8.7	IE3	91.7	91.8	88.5	1250	150	170
BMX 180 LB6	15.0	1175	28.0	0.73	121.9	3.6	8.9	IE3	91.7	91.8	90.2	2300	250	270
BMX 200 LA6	18.5	1181	33.3	0.75	149.6	4.1	8.6	IE3	93.0	93.2	89.8	3200	250	275
BMX 200 LB6	22.0	1180	38.1	0.78	178.0	3.5	7.9	IE3	93.0	93.2	89.8	3200	250	275
BMX 225 M6	30.0	1188	50.6	0.79	241.2	3.6	8.3	IE3	94.1	94.4	93.3	7500	400	420
BMX 250 M6	37.0	1188	62.5	0.79	297.4	3.6	8.3	IE3	94.1	94.4	93.3	9790	400	640
BMX 280 S6	45.0	1185	77.7	0.77	362.6	3.1	6.5	IE3	94.5	94.6	93.6	16500	1000	720
BMX 280 M6	55.0	1185	95.0	0.77	443.2	3.1	7.2	IE3	94.5	94.6	93.6	19500	1000	760
BMX 315 S6	75.0	1186	124.0	0.80	603.9	2.9	7.6	IE3	95.0	95.1	93.9	33500	1000	1120
BMX 315 M6	90.0	1186	149	0.80	724.7	2.9	7.6	IE3	95.0	95.1	93.9	51500	1000	1320
<b>8 pole - 900 RPM</b>														
BMX 71 B8	0.12	820	0.56	0.53	1.40	2.4	2.6	IE2	50.7	51.1	49.0	6.57	5	8
BMX 80 A8	0.18	800	0.73	0.67	2.14	2.3	2.7	IE2	46.0	46.4	44.2	19.05	10	12
BMX 80 B8	0.25	800	0.87	0.69	2.98	2.4	2.9	IE2	52.0	52.4	50.2	22.86	10	13
BMX 90 SA8	0.37	820	1.31	0.61	4.30	2.5	3.5	IE2	58.0	58.4	56.2	31.52	20	16.5
BMX 90 LA8	0.55	820	1.92	0.58	6.40	2.5	3.5	IE2	62.0	62.4	60.2	41.67	20	19
BMX 100 LA8	0.75	840	2.15	0.58	8.52	2.5	3.8	IE3	75.5	75.9	73.9	80.76	40	26
BMX 100 LB8	1.1	840	3.14	0.56	12.50	2.6	5.1	IE3	78.5	78.9	76.9	92.55	40	28
BMX 112 MB8	1.5	860	3.80	0.59	16.65	2.4	6.0	IE3	84.0	84.4	82.4	163.5	60	39
BMX 132 SB8	2.2	850	4.49	0.72	24.71	2.5	6.1	IE3	85.5	85.9	83.9	283.9	100	61
BMX 132 MB8	3.0	850	6.05	0.72	33.70	2.5	6.1	IE3	86.5	86.9	84.9	372.7	100	68
BMX 160 MA8	4.0	870	7.96	0.73	43.90	2.8	7.7	IE3	86.5	86.9	85.0	959	150	138
BMX 160 MB8	5.5	870	11.3	0.71	60.37	2.8	7.6	IE3	86.5	86.9	85.0	959	150	138
BMX 160 LA8	7.5	870	15.0	0.7	82.32	2.8	7.8	IE3	89.5	89.9	88.0	1280	150	156
BMX 180 LB8	11.0	876	21.8	0.71	119.9	2.6	6.5	IE3	89.5	89.9	88.0	2320	250	230
BMX 200 LA8	15.0	882	29.0	0.72	162.4	2.3	7.4	IE3	90.2	90.6	88.7	4400	250	275
BMX 225 S8	18.5	888	37.4	0.69	198.9	2.6	8.5	IE3	90.2	90.6	88.8	7130	400	405
BMX 225 M8	22.0	882	41.9	0.72	238.2	2.3	8.0	IE3	91.7	92.1	90.5	7130	400	415
BMX 250 M8	30.0	888	54.1	0.76	322.6	2.3	7.7	IE3	91.7	92.1	90.3	10200	400	640
BMX 280 S8	37.0	894	63.7	0.79	395.2	2.4	8.0	IE3	92.4	92.8	91.0	20000	1000	720
BMX 280 M8	45.0	894	76.5	0.8	480.7	2.4	8.1	IE3	92.4	92.8	91.0	23000	1000	760

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