

technical data two speed motors - single winding

Motor type	Power (kW)	RPM	In (A) 400 V 50 Hz	cos φ	Tn (Nm)	Ts / Tn	Is / In	DC brake In (mA)	Z ₀ (starts /hour)	Moment of inertia Jx 10 ⁻⁴ Kg·m ²	Brake torque (Nm)	A-Sound pressure dB (A)	Weight (Kg)
2/4 pole													3000 / 1500 r.p.m.
BMD 63 B2/4	0.22 0.15	2800 1400	0.80 0.75	0.68 0.56	0.75 1.02	3.00 3.00	4.5 3.2	200	5500 7000	3.08	5	55 42	5.0
BMD 63 C2/4	0.26 0.17	2800 1400	0.90 0.85	0.76 0.61	0.89 1.16	2.90 3.00	4.2 3.3	200	5000 6000	3.55	5	55 42	5.5
BMD 71 A2/4	0.25 0.18	2820 1415	0.75 0.70	0.73 0.66	0.85 1.21	2.2 2.4	3.8 3.1	200	2850 5500	5.67	5	59 45	7.0
BMD 71 B2/4	0.37 0.25	2820 1415	1.00 0.85	0.77 0.63	1.25 1.69	2.3 2.8	4.7 4.2	200	2850 5500	6.47	5	59 45	8.0
BMD 80 A2/4	0.65 0.45	2790 1400	1.80 1.35	0.81 0.72	2.22 3.07	2.0 2.1	4.1 4.0	160	2500 4400	10.62	10	65 47	12.0
BMD 80 B2/4	0.88 0.62	2800 1390	2.20 1.70	0.80 0.74	3.00 4.26	2.5 2.2	4.9 4.5	160	2500 4400	12.84	10	65 47	13.0
BMD 90 SB2/4	1.3 0.9	2800 1420	3.20 2.30	0.85 0.73	4.43 6.05	2.3 2.5	5.2 5.0	190	1650 2900	21.74	20	72 55	16.5
BMD 90 LA2/4	1.8 1.2	2800 1420	4.40 3.10	0.83 0.71	6.14 8.07	2.6 3.0	5.6 6.0	190	1200 2100	26.12	20	72 55	19.5
BMD 90 LB2/4	2.2 1.5	2860 1430	5.40 3.80	0.82 0.73	7.35 10.02	2.5 3.0	5.9 6.0	190	1050 1750	30.16	20	72 55	20.5
BMD 100 LA2/4	2.2 1.5	2875 1425	5.00 3.80	0.85 0.81	7.31 10.05	2.3 2.5	6.0 5.6	250	1050 1750	44.5	40	74 57	25
BMD 100 LB2/4	3.1 2.3	2875 1425	6.70 5.20	0.85 0.82	10.30 15.41	2.3 2.4	7.0 6.5	250	850 1400	53.4	40	74 57	29
BMD 112 MB2/4	4.5 3.3	2880 1400	9.20 6.90	0.88 0.86	14.92 22.51	2.4 2.6	7.0 6.5	470	350 1400	133.5	60	75 61	39
BMD 132 SB2/4	5.0 4.5	2940 1450	10.90 9.30	0.81 0.84	16.24 29.64	2.8 2.6	8.0 7.5	600	150 350	235.9	100	75 62	66
BMD 132 MA2/4	6.0 5.0	2940 1450	11.70 10.00	0.88 0.85	19.49 32.93	2.1 2.5	8.0 7.5	600	150 320	310.9	100	75 62	75
BMD 132 MB2/4	7.5 6.0	2940 1450	16.00 12.20	0.82 0.83	24.36 39.52	2.4 2.5	8.0 7.5	600	150 320	310.9	100	75 62	75
BMD 160 MA2/4	9.5 8.0	2870 1420	20.00 16.60	0.89 0.85	31.61 53.80	2.8 2.6	7.5 6.0	700	120 320	607.0	150	77 63	136
BMD 160 MB2/4	11.0 9.0	2870 1420	23.30 18.70	0.88 0.85	36.60 60.53	2.8 2.6	6.8 6.0	700	120 320	607.0	150	77 63	136
BMD 160 LA2/4	13.0 11.0	2890 1420	26.10 21.20	0.91 0.87	42.96 73.98	2.8 2.6	7.0 6.3	700	100 300	782.0	150	77 63	153
4/8 pole													1500 / 750 r.p.m.
BMD 71 A4/8	0.13 0.07	1385 700	0.35 0.45	0.82 0.60	0.90 0.96	1.6 1.8	3.0 2.0	200	4300 7300	8.55	5	45 43	8.0
BMD 71 B4/8	0.18 0.09	1370 685	0.50 0.60	0.83 0.59	1.25 1.25	1.8 2.0	3.2 2.0	200	4100 6900	10.01	5	45 43	8.5
BMD 71 C4/8	0.22 0.12	1370 685	0.60 0.75	0.83 0.59	1.53 1.67	1.6 1.8	3.0 2.0	200	3850 6700	10.82	5	45 43	9.0
BMD 80 A4/8	0.25 0.18	1405 675	0.70 0.90	0.86 0.65	1.70 2.55	2.2 2.0	4.1 2.4	160	4300 7300	19.05	10	47 45	12.0
BMD 80 B4/8	0.37 0.25	1405 675	0.85 1.15	0.86 0.65	2.51 3.54	2.2 2.0	4.1 2.4	160	3250 5500	22.86	10	47 45	13.0
BMD 90 SA4/8	0.75 0.37	1350 695	1.70 1.80	0.85 0.53	5.31 5.08	1.8 2.3	3.9 2.7	190	3200 5500	31.52	20	55 46	16.5
BMD 90 LB4/8	1.1 0.6	1390 695	2.70 3.00	0.82 0.53	7.56 8.24	2.0 2.5	4.5 2.7	190	2900 4900	48.21	20	55 46	20.5
BMD 100 LB4/8	1.6 0.9	1395 700	3.60 3.50	0.87 0.58	10.95 12.28	2.0 2.2	5.0 3.5	250	1850 3100	92.55	40	57 49	28
BMD 112 MB4/8	2.2 1.2	1440 720	4.80 4.60	0.86 0.57	14.59 15.92	2.5 3.1	5.5 4.1	470	1400 3000	200.60	60	61 52	39
BMD 132 SB4/8	3.0 2.0	1440 720	6.60 5.80	0.85 0.64	19.90 26.53	2.2 2.5	6.0 5.0	600	380 750	283.90	100	62 55	61
BMD 132 MA4/8	4.0 2.7	1440 720	8.80 7.80	0.85 0.64	26.53 35.81	2.2 2.5	6.0 5.0	600	380 750	372.70	100	62 55	68
BMD 132 MB4/8	6.0 4.0	1440 720	13.00 11.60	0.85 0.64	39.79 53.06	2.2 2.5	6.0 5.0	600	380 750	533.70	100	62 55	106
BMD 160 MB4/8	6.5 4.5	1470 730	15.10 13.30	0.80 0.62	42.23 58.87	2.6 2.5	2.4 5.0	700	320 580	959.00	150	63 58	138
BMD 160 LA4/8	9.5 6.0	1470 730	21.50 17.60	0.82 0.62	61.72 78.49	2.6 2.4	8.0 6.5	700	300 560	1280.00	150	63 58	156

1. Motor characteristic values reported in the tables refer to voltage 3-400V 50 Hz, ambient temperature max. 40 °C, altitude up to 1000 m, above sea level operating condition. These are two speed motors and they are exempt from efficiency requirements of the regulation (UE) 2019/1781 - Article 2 (2) point n. 1. I valori indicati si riferiscono al funzionamento del motore con alimentazione 3-400V 50 Hz, temperatura esterna max 40 °C, altitudine fino a 1000 m s.l.m., servizio continuo (S1). Questi sono motori a due velocità e sono esentati dai requisiti di efficienza del regolamento (UE) 2019/1781 - Articolo 2 (2) punto n. 1.

2. Brake current consumption values refer to a rated voltage of 230V AC single-phase - I valori della corrente assorbita dal freno si intendono alla tensione nominale di 230V monofase lato alterna.

3. The table shows the sound pressure noise level, measured at one metre range from the motor according to the Acoustic (ISO 1080). The shown noise levels refer to motor no-load operating condition and should be regarded with a tolerance of ± 3dB. I valori di rumorosità si intendono a un regime espresso in pressione

sonora, misurati ad un metro di distanza dal motore e ponderati secondo la curva A (ISO 1080). La tolleranza sul valore indicato è di 3 dB.

4. Z₀ is the max number of no-load starts. It is meant for calculation purposes only, and is used to obtain the max number of starts with load. The number of starts with load (Z_{load}) is indicative and it has to be operationally tested for confirmation. The use of thermal protectors is strongly recommended when the operative number of starts is close to the calculated Z_{max}. It is necessary to verify the max permissible brake energy dissipation for heavy applications with the high moment of inertia and the max permissible RPM. Il valore Z₀ indica il numero massimo di avviamenti orari a vuoto e deve servire solo come dato di calcolo per ottenere il numero massimo di avviamenti a carico. Il numero ottenuto dal calcolo è indicativo e deve necessariamente essere soggetto a verifica operativa. Se il numero di avviamenti orari a carico è prossimo al valore Z_{max} ottenuto dal calcolo si consiglia l'adozione di termoprotettori. È necessario effettuare una ver-

ifica sulla massima energia dissipabile dal gruppo freno per applicazione gravose con elevati momenti d'inerzia e sulla massima velocità di rotazione del motore consentita.

5. 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. 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.



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