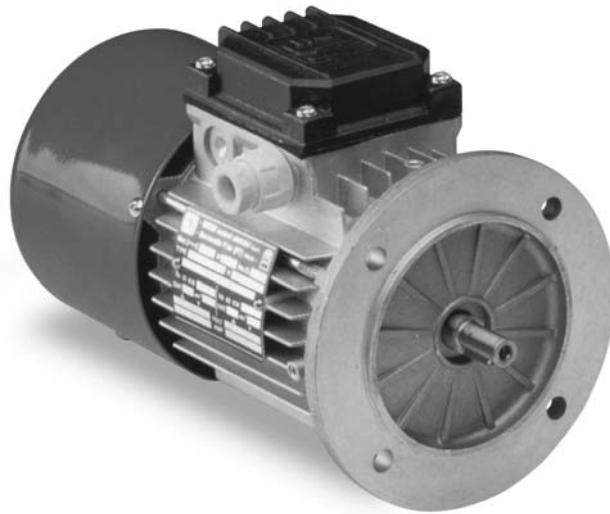
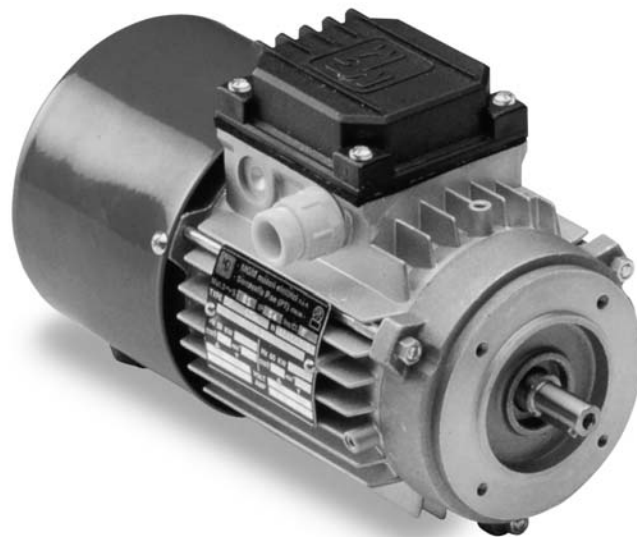


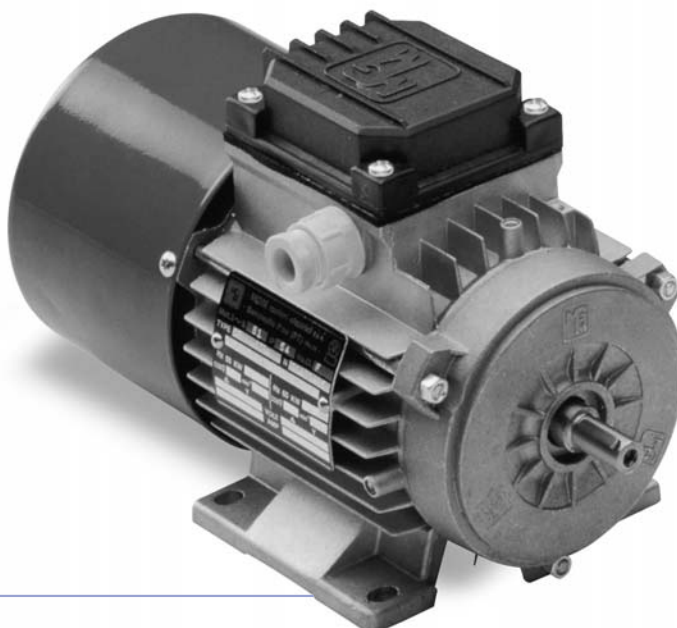
B5



B14



B3



seria BM

Seria BM reprezinta motoare cu frana trifazate, asincrone, total inchise si autoventilate. Seria BM cuprinde gabarite de la 56 pana la 160. Frana actioneaza in cazul caderii tensiunii de alimentare. Momentul de franare este acelasi indiferent de sensul de rotatie si actioneaza fara alunecare axiala. Standard frana este alimentata in DC cu redresor incorporat in cutia de borne. Redresorul este protejat la supraalimentare si unde radio. Legaturile redresorului pot fi facute in functie de timpul necesar de interventie al franei.

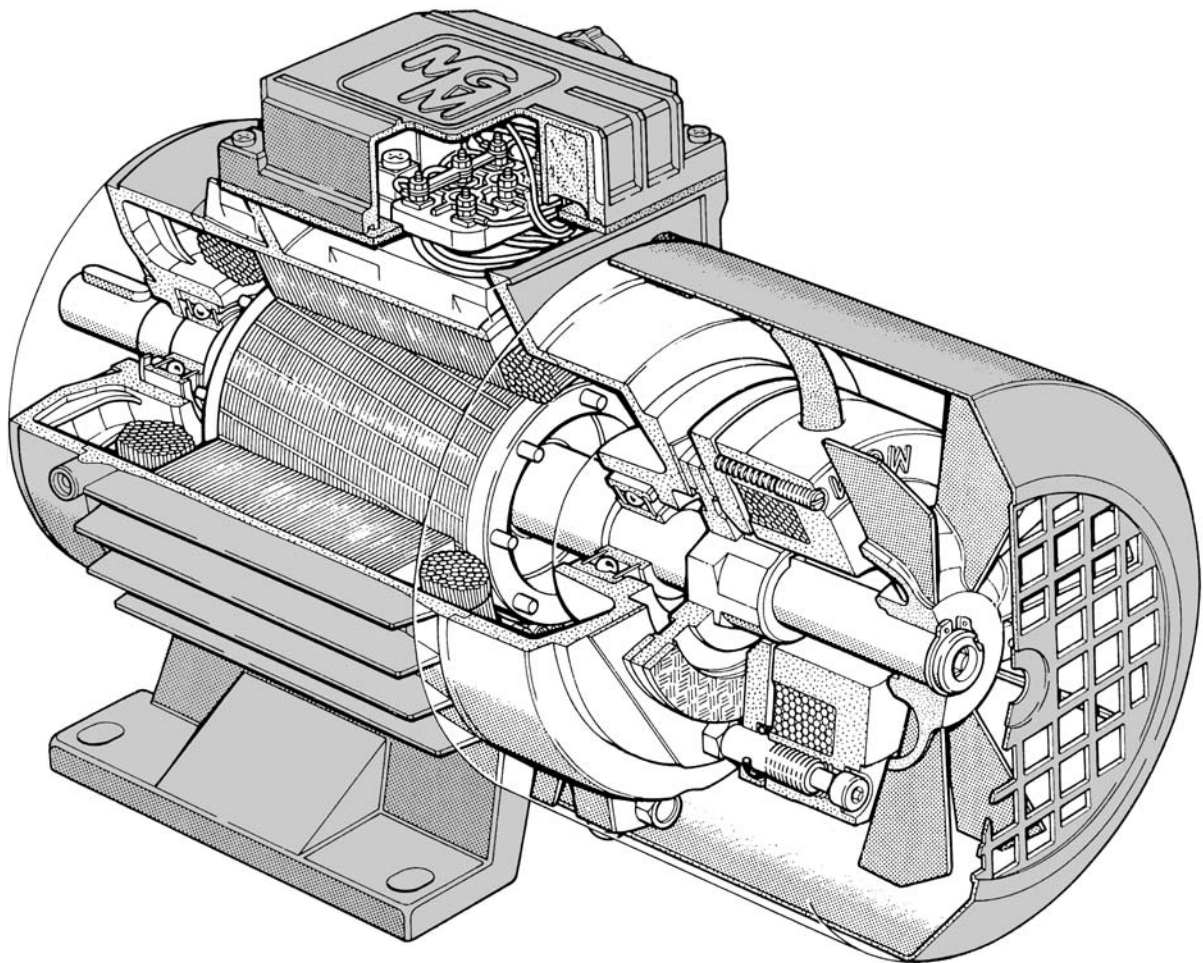
Seria BM este proiectata pentru o actiune a franei cat mai silentioasa. Motoarele seriei BM permit o rata de supraincercare mare si sunt capabile sa reziste la supraincalzire garantand cea mai buna fiabilitate in conditii dure de operare.

Toate motoarele MGM sunt proiectate pentru utilizarea cu invertere. Izolatia infasurarii este de clasa F, clasa H fiind disponibila optional. Constructia motorului este de tip inchis cu racire externa si izolatie IP54 (IP55 si IP56 - optional).

Gabaritele pana la 132 sunt dotate standard cu o gaura hexagonala in ax la capatul liber pentru rotirea manuala.

La cerere, motoarele seriei BM pot fi dotate cu un dispozitiv manual de eliberare a franei. Materialul ferodourilor este fara asbest compozitia sa fiind astfel proiectata sa aiba un coeficient de frecare ridicat pe o perioada de timp cat mai lunga.

Carcasa seriei BM este din aliaje usoare pana la gabaritul 132 avand cutia de borne, dotata cu presetupe si borne, pozitionata la 180° fata de picioare. Incepand cu gabaritul 160 carcasa este de fonta iar cutia de borne este localizata pe partea dreapta. Scuturile si flansele sunt din aluminiu la motoare pana la gabaritul 90, si din fonta la motoare cu gabarit 100 si mai mare. Pentru montajul B3 talpile sunt integrate in carcasa (nu doar atasate de aceasta) constructiv facand motorul foarte rezistent. Aceasta caracteristica este importanta in aplicatiile in care motorul este supus unor cicluri repetate de pornire/oprire. Principalele caracteristici ale Seriei BM sunt zgomot de franare redus, accelerare graduala la pornire/oprire si dimensiuni de gabarit reduse.



Frana seriei BM

Descriere generala

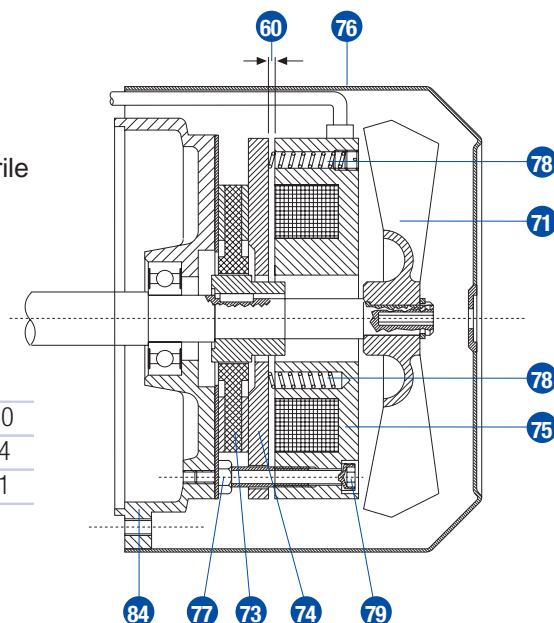
Seria BM este echipata cu frana DC. Bobina franei este alimentata prin redresorul din cutia de borne (voltaj standard 230V 50/60 Hz). Redresorul este protejat la suprasarcina si emisiile frecventelor radio. Momentul de franare este acelasi in ambele directii de rotatie si motorul franeaza fara alunecare axiala. Momentul de franare poate fi reglat prin strangerea sau slabirea arcurilor reglabile (78) daca sunt sau prin inlocuirea arcurilor fixe.

Nu setati un moment de franare mai mare decat cel indicat pe placuta motorului.

Seria BM are standard o gaura hexagonala in ax pentru rotirea manuala a motorului. La cerere se poate furniza o maneta reversibila de deblocare a franei montata pe lateralul motorului.

Reglare intrefier

Intrefierul (60), este distanta dintre 2 miezuri magnetice, bobina franei (75) si piesa mobila (74), si trebuie sa fie intre valorile din tabelul de mai jos. Se recomanda verificarea periodica a intrefierului deoarece el creste ca o consecinta a uzurii ferodoului. Pentru restabilirea intrefierului la valorile normale, eliberati suruburile (77), mutati bobina franei (75) spre piesa mobila (74) cu ajutorul suruburilor (79). Odata reglajul efectuat nu uitati sa strangeti in sensul acelor de ceasornic suruburile (77) pentru a strange din nou bobina.

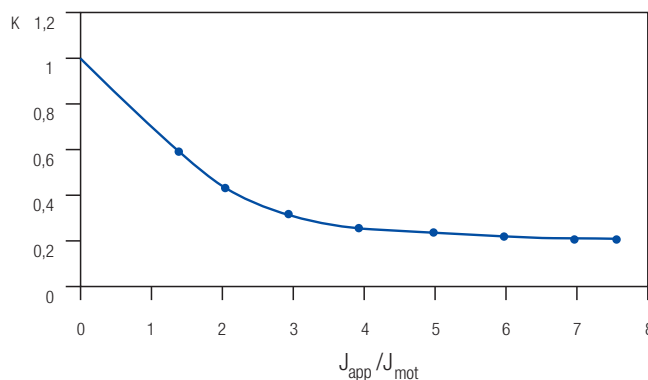
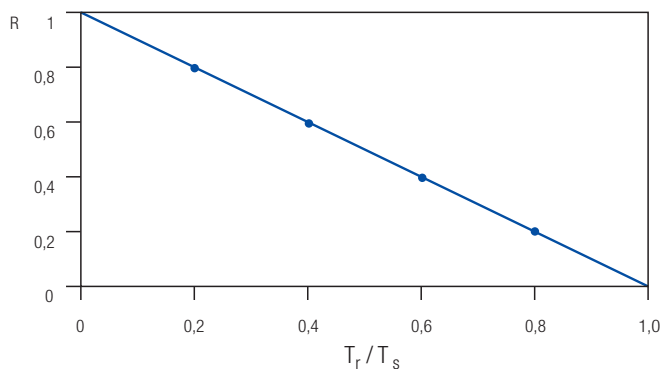


Gabarit	63/71	80	90	100	112	132	160
Intrefier Min[mm]	0,2	0,2	0,3	0,3	0,3	0,4	0,4
Intrefier Max[mm]	0,6	0,7	0,8	0,9	1,0	1,1	1,1

Frecventa de pornire cu incarcare

Tabelele tehnice furnizeaza frecventa ideala de pornire fara incarcare (Z_0). Frecventa permisa cu incarcare radiala (Z_{load}) poate fi calculata dupa cum urmeaza:

$$Z_{load} = Z_0 \cdot K \cdot R$$



unde "Z0" este valoare din tabele pentru motorul selectat iar "K" si "R" sunt factori determinati de curbele de mai sus; "K" este raportul dintre momentul de inertie al incarcarii aplicate (J_{app}) si cel al motorului (J_{mot}) iar "R" este raportul dintre momentul rezistiv (T_r) si momentul de pornire (T_s). Acest calcul da valori aproximative doar. Daca frecventa de pornire este apropiata de Z_{load} , se recomanda utilizarea unui motor echipat cu protectie termica. Este necesara verificarea limitei maxime de disipare a energiei de catre frana si a turatiei maxime a motorului in aplicatiile in care este implicat un moment mare de inertie. Contactati MGM pentru informatii suplimentare.

Diagrame legare redresor

Motoarele BM pot fi conectate ca in diagramele A sau B in functie de timpul de reactie al franei. Motoarele MGM se livreaza cu frana in DC conectata ca in diagrama A. Pentru un timp de reactie mai rapid se va conecta conform diagramei B. Mai jos sunt prezentati timpii de reactie si de eliberare a franei.

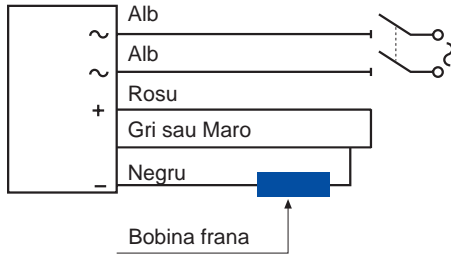


Diagrama A

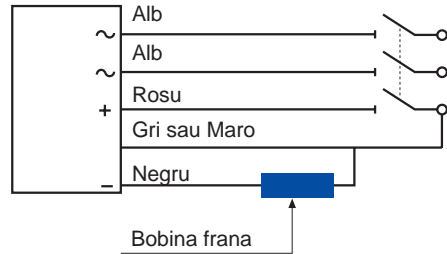
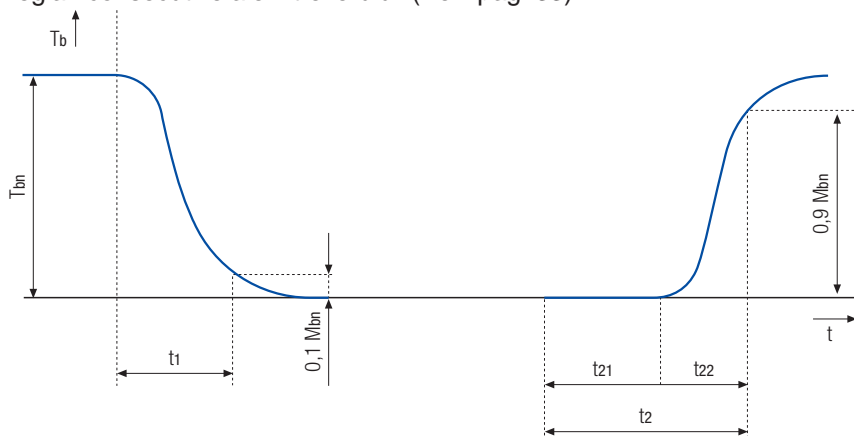


Diagrama B

Graficul de mai jos descrie evolutia momentului de franare ca functie de timp, la pornire (stanga) si la oprire (dreapta) Tabelul de mai jos precizeaza pentru fiecare gabarit valorile Er (MJ) pentru a calcula numarul de franari intre 2 reglari consecutive ale intrefierului. (Vezi pag. 33).



- T_b Moment de franare
- T_{bn} Moment de franare nominal
- t₁ Timp de pornire
- t₂₁ Intarziere
- t₂₂ Timp de eliberare
- t₂ Timp de reactie

Gabarit	t ₁ (ms)	t ₂₁ rapid (ms)	t ₂₂ rapid (ms)	t ₂ rapid (ms)	t ₂₁ standard (ms)	t ₂₂ standard (ms)	t ₂ standard (ms)	E _{rem} (MJ)
56	30	10	15	25	35	25	60	7*
63	35	10	15	25	40	30	70	15
71	35	10	15	25	40	30	70	15
80	45	15	30	45	50	45	95	23
90	60	20	40	60	80	60	140	29
100	80	25	50	75	100	75	175	33
112	120	30	60	90	120	90	210	36
132	160	40	80	120	160	120	280	39
160	200	50	100	150	200	150	350	44

*Nota: Intrefierul nu poate fi reglat la motoarele BM56 . Discul de frana trebuie schimbat cand intrefierul depaseste valorile precizate.

Timp de franare

Timpul de franare t_f (s) se poate calcula astfel:

$$t_f = \frac{J_{tot} \cdot n}{9.55 (T_b \pm T_{load})} + \frac{t_2}{1000}$$

- Unde: J_{tot} moment total de inertie la axul motorului (Kg·m²)
- n turatie motor RPM (min⁻¹)
- T_b moment de franare (Nm)
- T_{load} moment rezistiv (Nm) cu + daca este in sensul momentului de franare, sau cu - daca este opus
- t₂ timp de reactie frana electrica (ms)

Aceste calcule sunt aproximative. Contactati MGM pentru mai multe informatii.

Date tehnice – 1 INFASURARE

TIP	Putere (kW)	RPM	In (A) 400 V	Factor putere Cos φ	Ts/Tn	Is/In	Frana DC In (mA)	Z ₀ (porniri/ora)	Moment de inerție Jx 10 ⁻⁴ Kg·m ²	Moment MAX. de franare (Nm)	Nivel de zgomot dB(A)	Greutate (Kg)
2 Poli												3000 RPM
BM 56 A2	0.09	2820	0.38	0.60	3.0	3.8	130	10000	1.85	2	58	4.0
BM 56 B2	0.12	2760	0.40	0.69	3.0	3.8	130	10000	1.85	2	58	4.0
BM 63 A2	0.18	2800	0.60	0.71	3.0	3.5	200	9000	1.93	5	59	4.5
BM 63 B2	0.25	2800	0.75	0.76	3.5	5.0	200	7500	1.93	5	59	5.0
BM 63 C2*	0.37	2760	1.00	0.80	2.5	3.8	200	6000	2.30	5	59	5.5
BM 71 A2	0.37	2810	0.90	0.78	2.6	4.5	200	4150	3.35	5	59	7
BM 71 B2	0.55	2810	1.40	0.78	2.6	4.5	200	4150	3.95	5	59	8
BM 71 C2*	0.75	2810	1.80	0.80	2.5	4.5	200	3100	4.62	5	59	9
BM 80 A2	0.75	2800	1.70	0.86	3.1	5.3	160	3100	7.29	10	65	12
BM 80 B2	1.1	2800	2.40	0.86	3.1	5.3	160	3100	8.61	10	65	13
BM 90 SA2	1.5	2850	3.20	0.86	3.0	6.9	190	2550	14.54	20	72	17
BM 90 LA2	2.2	2840	4.50	0.86	3.0	6.9	190	2550	17.43	20	72	19
BM 100 LA2	3.0	2860	6.20	0.84	3.2	8.1	250	1850	33.18	40	74	23
BM 112 MB2	4.0	2880	8.10	0.84	2.5	7.4	470	1100	67.89	60	75	38
BM 112 MC2*	5.5	2880	11.40	0.85	2.5	7.4	470	900	83.70	60	75	40
BM 132 SA2	5.5	2890	10.8	0.86	2.8	7.4	600	350	150.90	100	75	59
BM 132 SB2	7.5	2890	14.6	0.85	2.8	7.4	600	350	189.90	100	75	65
BM 132 MA2*	9.2	2890	17.9	0.85	2.8	7.4	600	300	229.70	100	75	71
BM 132 MB2*	11.0	2890	21.4	0.85	2.8	7.4	600	300	267.70	100	75	78
BM 160 MA2	11.0	2920	19.5	0.94	3.0	8.8	700	250	461.00	150	77	142
BM 160 MB2	15.0	2930	26.3	0.93	3.1	8.8	700	250	461.00	150	77	142
BM 160 LA2	18.5	2930	32.4	0.93	3.1	8.8	700	250	540.00	150	77	153
4 Poli												1500 RPM
BM 56 A4	0.06	1390	0.40	0.48	3.0	2.2	130	12000	1.85	2	41	4.0
BM 56 B4*	0.09	1320	0.41	0.61	3.0	2.2	130	12000	1.85	2	41	4.0
BM 56 C4	0.12	1320	0.55	0.61	3.0	2.2	130	12000	1.85	2	41	4.0
BM 63 A4	0.12	1330	0.45	0.70	2.0	2.4	200	12000	2.47	5	42	4.5
BM 63 B4	0.18	1350	0.60	0.71	3.0	2.8	200	12000	3.08	5	42	5.0
BM 63 C4*	0.22	1350	0.75	0.66	2.8	3.1	200	12000	3.55	5	42	5.5
BM 63 D4*	0.30	1350	1.05	0.64	2.8	3.0	200	12000	3.83	5	42	6.0
BM 71 A4	0.25	1400	0.80	0.65	2.5	3.7	200	10300	5.67	5	45	7.0
BM 71 B4	0.37	1400	1.10	0.68	2.7	3.9	200	10300	6.57	5	45	8.0
BM 71 C4*	0.55	1360	1.65	0.70	2.4	3.7	200	8150	7.90	5	45	9.0
BM 71 D4*	0.65	1350	2.00	0.69	2.1	3.7	200	8150	8.39	5	45	9.5
BM 80 A4	0.55	1400	1.70	0.69	2.1	4.0	160	8150	10.62	10	47	12.0
BM 80 B4	0.75	1400	2.20	0.67	2.5	4.3	160	7250	12.84	10	47	13.0
BM 80 C4*	0.90	1390	2.60	0.68	2.8	4.5	160	5150	13.95	10	47	14.0
BM 90 SA4	1.10	1400	2.70	0.77	2.3	4.6	190	5150	21.74	20	55	16.5
BM 90 LA4	1.50	1400	3.60	0.75	2.7	4.8	190	4100	26.12	20	55	19.0
BM 90 LB4*	1.85	1400	4.30	0.77	2.7	5.8	190	4100	30.16	20	55	21.5
BM 90 LC4*	2.2	1390	5.40	0.75	2.7	5.0	190	4100	30.16	20	55	21.5
BM 100 LA4	2.2	1410	5.00	0.78	2.5	5.4	250	3300	44.50	40	57	25
BM 100 LB4	3.0	1410	6.50	0.80	2.8	6.4	250	3300	53.43	40	57	29
BM 112 MB4	4.0	1415	8.10	0.84	2.6	6.4	470	1600	133.50	60	61	39
BM 112 MC4*	5.5	1420	11.50	0.83	2.8	6.9	470	1100	155.00	60	61	44
BM 132 SB4	5.5	1430	11.30	0.82	2.4	6.0	600	500	235.90	100	62	66
BM 132 MA4	7.5	1435	14.80	0.84	2.4	6.0	600	400	310.90	100	62	75
BM 132 MB4*	9.2	1445	18.30	0.85	2.5	6.3	600	400	391.30	100	62	88
BM 132 MBX4*	11.0	1440	21.70	0.86	2.5	6.0	600	400	391.30	100	62	88
BM 160 MA4	9.2	1460	18.60	0.84	3.0	7.0	700	370	531.00	150	63	130
BM 160 MB4	11.0	1460	21.20	0.85	2.9	7.0	700	370	607.00	150	63	136
BM 160 LA4	15.0	1460	28.50	0.87	2.7	7.0	700	370	782.00	150	63	153

* Putere ne-Standardizata

Date Tehnice – 1 INFASURARE



seria BM

Tip	Putere (kW)	RPM	In (A) 400 V	Factor putere Cos φ	Ts/Tn	Is/In	Frana DC In (mA)	Z ₀ (porniri/ora)	Moment de inerție Jx 10 ⁻⁴ Kgm ²	Moment Max. de franare (Nm)	Nivel de zgomot dB(A)	Greutate (Kg)
6 Poli												1000 RPM
BM 56 B6	0.06	850	0.45	0.71	1.9	1.5	130	12000	1.85	2	41	4.0
BM 63 C6	0.09	890	0.50	0.56	2.4	1.9	200	12000	3.55	5	42	5.5
BM 63 D6	0.12	870	0.60	0.64	2.7	1.9	200	12000	3.83	5	42	6.0
BM 71 A6	0.18	875	0.60	0.71	2.0	2.6	200	11500	8.55	5	45	7.5
BM 71 B6	0.25	900	0.80	0.71	2.0	2.8	200	11500	10.01	5	45	8.0
BM 80 A6	0.37	910	1.25	0.67	2.6	3.4	160	9700	19.05	10	47	12.0
BM 80 B6	0.55	900	1.80	0.68	2.2	2.8	160	9250	22.86	10	47	13.0
BM 90 SA6	0.75	910	2.30	0.68	2.1	3.5	190	7300	31.52	20	54	16.0
BM 90 LA6	1.10	910	3.20	0.68	2.2	3.6	190	5400	41.67	20	54	18.5
BM 90 LB6*	1.30	910	3.50	0.68	2.5	4.0	190	4300	48.10	20	54	20.5
BM 100 LA6	1.50	930	3.90	0.71	2.3	4.3	250	3650	80.76	40	56	26
BM 100 LB6	1.85	920	5.00	0.68	2.6	4.5	250	3200	92.55	40	56	28
BM 112 MB6	2.20	945	5.20	0.79	2.0	5.3	470	2100	200.60	60	58	39
BM 132 SB6	3.00	960	7.20	0.72	2.5	6.5	600	650	304.90	100	58	66
BM 132 MA6	4.00	960	9.50	0.72	2.3	6.5	600	550	360.70	100	58	71
BM 132 MB6	5.50	960	12.30	0.75	2.3	6.5	600	550	467.70	100	58	82
BM 160 MB6	7.50	965	15.90	0.79	2.2	7.1	700	550	867.00	150	59	138
BM 160 LA6*	9.20	970	18.30	0.81	2.2	7.1	700	500	1160.00	150	59	156
BM 160 LB6	11.00	970	22.70	0.80	2.5	7.5	700	440	1160.00	150	59	156
8 Poli												750 RPM
BM 63 D8	0.07	650	0.45	0.62	2.2	1.55	200	15000	3.83	5	42	6.0
BM 71 A8	0.08	660	0.60	0.53	2.0	2.0	200	8750	5.67	5	43	7.5
BM 71 B8	0.11	660	0.80	0.55	2.0	2.0	200	8750	6.57	5	43	8.0
BM 80 A8	0.18	675	0.95	0.59	2.0	2.2	160	8150	19.05	10	45	12.0
BM 80 B8	0.25	675	1.25	0.62	2.0	2.2	160	7250	22.86	10	45	13.0
BM 90 SA8	0.37	690	1.50	0.60	2.1	2.9	190	7000	31.52	20	46	16.5
BM 90 LA8	0.55	690	2.20	0.56	2.1	2.8	190	5400	41.67	20	46	19
BM 90 LB8*	0.65	690	2.70	0.56	2.1	2.8	190	4400	48.00	20	46	21
BM 100 LA8	0.75	700	2.75	0.58	2.1	3.0	250	3850	80.76	40	49	26
BM 100 LB8	1.1	700	4.10	0.59	2.5	4.0	250	3600	92.55	40	49	28
BM 112 MB8	1.5	705	4.90	0.60	2.0	4.5	470	2500	200.60	60	52	39
BM 132 SB8	2.2	700	5.20	0.75	2.1	4.7	600	700	283.90	100	55	61
BM 132 MB8	3.0	700	7.10	0.75	2.1	4.7	600	700	372.70	100	55	68
BM 160 MA8	4.0	725	9.60	0.72	2.3	6.5	700	630	959.00	150	58	138
BM 160 MB8	5.5	725	13.60	0.70	2.3	6.1	700	630	959.00	150	58	138
BM 160 LA8	7.5	725	18.60	0.70	2.3	6.1	700	630	1280.00	150	58	156

* Putere ne-Standardizata

1. Valorile din tabele fac referire la serviciul continuu (S1) frecventa de 50 Hz, temperatura mediului de lucru de max. 40 °C, altitudine de pana la 1000 m. peste nivelul marii.

2. Momentul de franare este cel maxim admis.

Valorile de consum ale curentului fac referire la un voltaj de 230V AC monofazat.

3. Tabelele arata nivelul de zgomot, masurat la distanta de 1 metru de motor conform curbei (ISO 1680)

Masurarea se face pe un motor care merge in gol si

prezinta o toleranta de ± 3dB.

4. Cuplul T_n (Nm) pentru motoare poate fi calculat dupa relatia: $T_n \text{ (Nm)} = \frac{9.55 \times P_n \text{ (W)}}{\text{RPM}}$

Date tehnice Motoare cu 2 turatii – 1 INFASURARE

Tip	Putere (kW)	RPM	In (A) 400 V	Factor putere Cos φ	Ts/Tn	Is/In	Frana DC In (mA)	Z ₀ (porniri/ora)	Moment de inertie Jx 10 ⁻⁴ Kg ^m ²	Moment Max. de franare (Nm)	Nivel de zgomot dB(A)	Greutate (Kg)
2 / 4 Poli											3000 / 1500 RPM	
BMD 63 B2/4	0.22 0.15	2800 1400	0.80 0.75	0.68 0.56	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	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	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	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	2.0 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	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	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	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	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	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	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	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	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	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	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	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	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	2.8 2.6	7.0 6.3	700	100 300	782.0	150	77 63	153
4 / 8 Poli											1500 / 750 RPM	
BMD 71 A4/8	0.13 0.07	1385 700	0.35 0.45	0.82 0.60	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	1.8 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	1.6 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	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	2.2 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	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	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	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	1400 720	4.80 4.60	0.86 0.57	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	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	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	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	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	2.6 2.4	8.0 6.5	700	300 560	1280.00	150	63 58	156

Date tehnice Motoare cu 2 turatii – 2 INFASURARI



seria BM

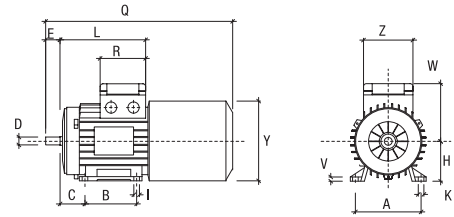
Tip	Putere (kW)	RPM	In (A) 400 V	Factor putere Cos φ	Ts/Tn	Is/In	Frana DC In (mA)	Z ₀ (porniri/ora)	Moment de inertie Jx 10 ⁻⁴ Kg·m ²	Moment Max. de franare (Nm)	Nivel de zgomot dB(A)	Greutate (kg)
2 / 6 Poli 3000/1000 RPM												
BMDA 71 B2/6	0.25 0.08	2880 940	0.85 0.60	0.74 0.64	2.6 2.2	4.3 2.0	200	7300 14400	6.57	5	59 45	8.5
BMDA 71 C2/6	0.35 0.10	2880 940	1.05 0.60	0.75 0.59	2.6 2.2	5.0 2.3	200	6850 13500	7.90	5	59 45	9.5
BMDA 80 A2/6	0.37 0.12	2885 945	1.35 0.80	0.67 0.57	2.6 1.9	5.0 2.5	160	4150 11000	10.62	10	65 47	12.0
BMDA 80 B2/6	0.55 0.18	2885 945	1.75 1.05	0.67 0.57	2.6 1.9	5.0 2.5	160	3100 9200	12.84	10	65 47	13.0
BMDA 90 SA2/6	0.9 0.3	2875 950	2.10 1.15	0.86 0.65	2.5 2.2	5.0 2.5	190	2300 6850	21.74	20	72 54	16.5
BMDA 90 LA2/6	1.2 0.4	2875 950	2.80 1.55	0.86 0.65	2.5 2.2	5.0 2.5	190	2000 5450	26.12	20	72 54	19.5
BMDA 90 LB2/6	1.4 0.5	2890 940	3.20 1.80	0.86 0.55	2.7 2.5	5.0 3.0	190	1650 4100	30.16	20	72 54	20.5
BMDA 100 LA2/6	1.6 0.6	2810 900	3.70 1.90	0.85 0.68	2.6 2.3	5.4 3.4	250	1650 4100	44.50	40	74 56	25
BMDA 100 LB2/6	2.2 0.8	2800 910	4.80 2.50	0.90 0.67	2.6 2.3	5.4 3.4	250	1550 3650	53.43	40	74 56	28
BMDA 112 MB2/6	3.0 1.0	2870 950	6.40 3.20	0.86 0.61	3.0 3.2	7.0 4.5	470	450 3250	133.50	60	75 58	26
BMDA 132 SB2/6	4.0 1.3	2880 940	8.90 3.70	0.85 0.69	3.0 2.8	7.0 4.5	600	150 650	235.90	100	75 58	66
BMDA 132 MA2/6	5.5 1.8	2870 940	11.50 5.10	0.88 0.69	3.0 2.8	7.5 4.5	600	150 550	310.90	100	75 58	75
BMDA 132 MB2/6	7.0 2.2	2870 940	14.90 6.30	0.88 0.69	3.0 2.8	7.5 4.5	600	150 450	391.30	100	75 58	76
BMDA 160 MB2/6	8.0 2.5	2890 950	15.90 6.90	0.92 0.74	3.0 2.0	8.0 4.3	700	100 400	607.00	150	77 59	136
BMDA 160 LA2/6	11.0 3.6	2890 950	21.40 9.30	0.92 0.74	3.0 2.0	8.0 4.3	700	100 360	782.00	150	77 59	153
2 / 8 Poli 300/750 RPM												
BMDA 63 C2/8	0.18 0.04	2700 630	0.60 0.40	0.80 0.58	2.2 1.9	5.0 2.1	200	2500 1800	3.55	5	55 42	5.5
BMDA 71 B2/8	0.25 0.06	2900 700	0.85 0.55	0.69 0.54	2.5 1.8	4.0 1.5	200	7300 17500	6.57	5	59 43	8.5
BMDA 71 C2/8	0.35 0.07	2900 700	1.05 0.75	0.70 0.52	2.5 2.2	4.3 1.6	200	6150 14400	7.90	5	59 43	9.5
BMDA 80 A2/8	0.37 0.09	2885 690	1.35 0.70	0.67 0.54	2.3 1.8	5.0 1.7	160	4100 13500	10.62	10	65 45	12.0
BMDA 80 B2/8	0.55 0.12	2885 690	1.75 0.90	0.67 0.54	2.3 2.0	5.0 1.7	160	3100 12750	12.84	10	65 45	13.0
BMDA 90 SB2/8	0.75 0.18	2800 610	1.90 1.05	0.77 0.65	3.0 2.1	5.1 1.9	190	1950 9250	21.74	20	72 46	16.5
BMDA 90 LA2/8	1.10 0.25	2800 640	2.70 1.45	0.80 0.64	3.0 2.1	5.1 1.9	190	1750 7750	26.12	20	72 46	19.5
BMDA 90 LB2/8	1.3 0.3	2820 640	3.10 1.75	0.81 0.58	3.2 2.4	5.7 2.0	190	1650 7250	30.16	20	72 46	20.5
BMDA 100 LA2/8	1.6 0.4	2810 660	3.70 2.00	0.85 0.58	2.7 2.0	5.3 2.2	250	1650 5750	44.50	40	73 49	25
BMDA 100 LB2/8	2.2 0.5	2800 660	4.80 2.50	0.90 0.59	2.8 2.3	5.7 2.3	250	1550 5100	53.43	40	73 49	29
BMDA 112 MB2/8	3.0 0.8	2860 690	6.30 3.50	0.87 0.63	3.3 2.6	7.5 3.2	470	650 4200	133.50	60	75 61	39
BMDA 132 SB2/8	4.0 1.1	2880 680	8.90 4.00	0.85 0.60	3.0 1.9	7.0 3.3	600	260 1100	235.90	100	75 62	66
BMDA 132 MA2/8	5.5 1.5	2870 680	11.50 5.60	0.88 0.59	3.0 2.0	7.5 3.0	600	250 1100	310.90	100	75 62	75
BMDA 132MB2/8	7.0 1.8	2870 680	14.90 7.30	0.88 0.59	3.0 2.0	7.5 3.0	600	250 1100	391.30	100	75 62	86
BMDA 160 MB2/8	8.0 2.2	2880 705	16.70 7.60	0.91 0.65	3.0 1.9	8.0 3.3	700	180 900	607.00	150	77 58	136
BMDA 160 LA2/8	11.0 3.0	2880 710	21.50 10.20	0.92 0.95	3.0 1.9	8.0 3.3	700	180 900	782.00	150	77 58	153

Date tehnice Motoare cu 2 turatii – 2 INFASURARI

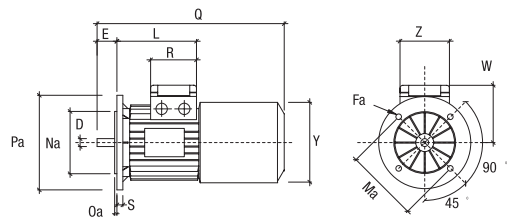
Tip	Putere (kW)	RPM	In (A) 400 V	Factor putere Cos φ	Ts/Tn	Is/In	Frana DC In (mA)	Z ₀ (porniri/ora)	Moment de inertie Jx 10 ⁻⁴ Kg·m ²	Moment Max. de franare (Nm)	Nivel de zgomot dB(A)	Greutate (kg)
4 / 6 Poli												1500 / 1000 RPM
BMDA 71 C4/6	0.18 0.11	1415 930	0.60 0.50	0.76 0.66	1.9 2.0	3.0 2.3	200	14500 19500	10.82	5	45 45	8.5
BMDA 80 A4/6	0.25 0.18	1430 930	0.85 0.80	0.79 0.71	2.2 1.8	4.3 3.0	160	8250 11500	19.05	10	47 47	12.0
BMDA 80 B4/6	0.37 0.25	1430 930	1.05 0.95	0.79 0.71	2.2 1.8	4.3 3.0	160	1300 10300	22.86	10	47 47	13.0
BMDA 90 SA4/6	0.55 0.37	1420 950	1.60 1.45	0.78 0.62	1.9 2.1	3.8 3.3	190	6900 9750	31.52	20	55 54	16.5
BMDA 90 LB4/6	0.75 0.55	1420 950	2.20 1.90	0.78 0.62	2.0 2.1	3.8 3.3	190	5700 8200	41.67	20	55 54	19.5
BMDA 100 LA4/6	1.1 0.8	1445 955	3.00 2.40	0.76 0.71	2.0 2.1	5.3 4.4	250	3100 4400	80.76	40	57 56	26
BMDA 100 LB4/6	1.5 1.1	1440 950	3.90 3.30	0.75 0.68	2.0 2.1	5.2 4.4	250	3000 4200	92.55	40	57 56	28
BMDA 112 MB4/6	2.0 1.3	1385 930	4.40 3.50	0.88 0.75	2.6 2.1	5.3 4.4	470	1550 3300	200.60	60	75 61	39
BMDA 132 SB4/6	2.2 1.5	1440 950	5.10 4.40	0.78 0.69	2.9 2.6	7.0 5.5	600	360 600	304.90	100	75 62	66
BMDA 132 MA4/6	3.0 2.2	1440 950	6.40 6.00	0.81 0.71	2.7 2.4	7.0 5.0	600	360 600	360.70	100	75 62	71
BMDA 132 MB4/6	3.7 2.5	1440 950	8.20 7.00	0.78 0.69	2.9 2.6	7.0 5.5	600	300 550	467.70	100	75 62	82
BMDA 160 MB4/6	5.5 3.7	1390 940	11.10 8.90	0.93 0.81	2.5 2.3	5.8 5.2	700	240 420	867.00	150	63 59	138
BMDA 160 LB4/6	7.5 5.0	1390 940	15.20 12.20	0.93 0.81	2.5 2.3	6.0 5.2	700	240 420	1160.00	150	63 59	156
4 / 12 Poli												S3 40% 1500 / 500 RPM
BMDA 80 A4/12	0.25 0.05	1425 435	0.85 0.60	0.77 0.663	1.8 1.9	3.7 1.6	160	4300 8000	19.05	10	47 43	12.0
BMDA 80B4/12	0.37 0.07	1425 435	1.05 0.75	0.77 0.63	1.8 1.9	3.7 1.6	160	4200 8000	22.86	10	47 43	13.0
BMDA 90 SA4/12	0.40 0.13	1360 380	1.25 1.05	0.73 0.59	2.5 2.0	3.5 1.6	190	3200 6100	31.52	20	55 44	16.5
BMDA 90 LA4/12	0.55 0.18	1400 400	1.65 1.20	0.76 0.64	2.5 1.8	3.5 1.6	190	3000 5900	41.67	20	55 44	19.5
BMDA 90 LB4/12	0.75 0.22	1370 400	2.05 1.60	0.76 0.65	2.5 2.0	3.5 1.6	190	2850 5700	48.21	20	55 44	20.5
BMDA 100 LA4/12	0.90 0.25	1440 450	2.30 2.10	0.76 0.50	2.2 1.8	5.3 1.7	250	1950 4700	80.76	40	57 47	26
BMDA 100 LB4/12	1.10 0.35	1440 450	2.80 2.60	0.76 0.50	2.2 1.8	5.3 1.7	250	1850 4500	92.55	40	57 47	28
BMDA 112 MB4/12	1.50 0.45	1420 440	3.40 2.40	0.84 0.55	2.2 2.0	6.0 2.2	470	780 4300	200.60	60	75 61	39
BMDA 132 SA4/12	2.50 0.80	1440 440	5.40 3.80	0.81 0.53	2.7 1.6	7.0 2.4	600	400 1100	304.90	100	75 62	67
BMDA 132 MA4/12	3.00 1.00	1440 440	6.40 4.50	0.81 0.53	2.7 1.6	7.0 2.4	600	400 1100	360.70	100	75 62	71
BMDA 132 MB4/12	4.00 1.30	1140 440	8.50 5.90	0.81 0.55	2.7 1.6	7.0 2.4	600	400 1100	467.70	100	75 62	82
BMDA 160 MB4/12	4.80 1.60	1425 455	10.00 7.20	0.89 0.57	2.8 2.0	7.5 3.0	700	300 850	867.00	150	63 61	138
BMDA 160 LB4/12	7.30 2.40	1410 445	15.20 10.10	0.90 0.61	2.8 2.0	7.0 3.0	700	300 850	1160.00	150	63 61	156

Type	56	63	71	80	90S	90L	100L	112M	132S	132M	160M	160L
A	90	100	112	125	140	140	160	190	216	216	254	254
B	71	80	90	100	100	125	140	140	140	178	210	254
C	36	40	45	50	56	56	63	70	89	89	108	108
D	9	11	14	19	24	24	28	28	38	38	42	42
d	M3	M4	M5	M6	M8	M8	M10	M10	M12	M12	M16	M16
E	20	23	30	40	50	50	60	60	80	80	110	110
Fa	6.6	9.5	9.5	11.5	11.5	11.5	14	14	14	14	18	18
Fb	M5	M5	M6	M6	M8	M8	M8	M8	M10	M10		
f	3	4	5	6	8	8	8	8	10	10	12	12
g	7.2	8.5	11	15.5	20	20	24	24	33	33	37	37
H	56	63	71	80	90	90	100	112	132	132	160	160
h	3	4	5	6	7	7	7	7	8	8	8	8
I	6	7	7	10	10	10	12	12	12	12	14.5	14.5
K	11	10.5	10.5	14	14	14	16	16	22	22	24	24
L	119	130	145	162	171	196	217	229	255	293		
L 1		166	182	194	207	232	254	262	294	339	373	395
Ma	100	115	130	165	165	165	215	215	265	265	300	300
Mb	65	75	85	100	115	115	130	130	165	165		
Na	80	95	110	130	130	130	180	180	230	230	250	250
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
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
Pb	80	90	105	120	140	140	160	160	200	200		
Q	230	260	295	334	360	385	435	470	565	604	690	734
R	75	80	80	80	98.5	98.5	98.5	98.5	108	108		
R1		135	135	135	170	170	170	170	199	199	268	268
S	8	10	10	12	12	12	14	14	15	15	15	15
V	7	7	8	9.5	10.5	10.5	12.5	13.5	16	16	21	21
W	93	97	105	113	127	127	138	158	198	198	155	155
W 1		111	121	130	148	148	162	176	210	210	246	246
Y	110	121	136	153	178	178	198	219.5	255	255	293	293
Z	75	75	75	75	98.5	98.5	98.5	98.5	108	108		
Z 1		86	86	86	112	112	112	112	151	151	167	167

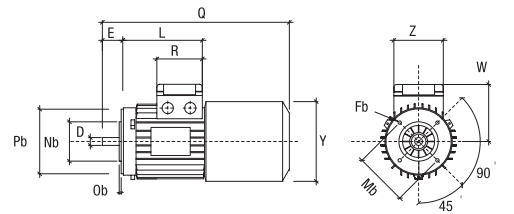
B3 (cu talpa)



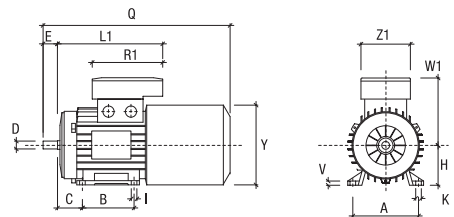
B5 (cu flansa)



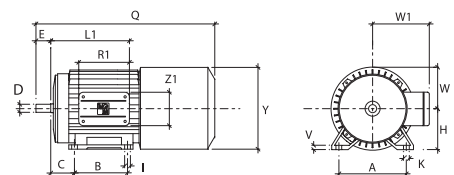
B14 (cu flansa mica)



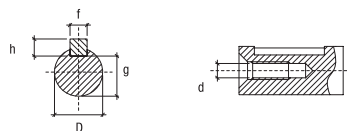
Cutie de borne dubla



Gabarit 160 B3 (cu talpa)



AX iesire



Note	Presetupe	M 16 de la gabarit 56 la 63
		M 20 de la gabarit 71 la 80
		M 25 de la gabarit 90 la 112
		M 32 la gabarit 132
		PG 29 la gabarit 160