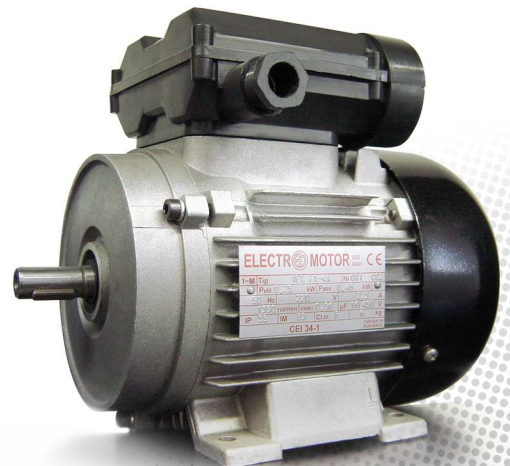


electromotor S.A.

# NGM



**motoare electrice asincrone monofazatecu condensator permanent**  
**single-phase induction motors with permanent capacitor**  
**moteurs electriques asynchrones monophasés, avec condensateur permanent**  
**asynchron-einphasenmotoren mit kagiglaufer und betriebskondensator**  
**motori asincroni monofasi com condensatore permanente**



QUALITY MANAGEMENT SYSTEM



DIN EN ISO 9001 : 2000

2 Poli / Poles / Pôles / Polig / Poli

Motor type Tipo del motori Typ motoren Tip motor	P <sub>n</sub> [ kW ]	n [ min <sup>-1</sup> ]	I <sub>n</sub> ( 230 V ) [ A ]	η [ % ]	cos φ	$\frac{M_p}{M_n}$	$\frac{M_{max}}{M_n}$	$\frac{I_p}{I_n}$	C/Uc [ μF/V ]	L <sub>w</sub> [ dB(A) ]	J [ kg m <sup>2</sup> ]	m <sub>1</sub> 1NCM [ kg ]	m <sub>2</sub> NCM [ kg ]
1 NCM 71 - 2C	0,18	2750	1,43	58	0,94	0,65	1.7	3	7,5/450	84	0,000368	4,8	-
1 NCM 71 - 2A	0,37		3.15	60	0,85	0,65		4.5	16/450		0,000545	6	-
1 NCM 71 - 2B	0,55		4.01	66	0,9	0,65		4.5	20/450		0,000678	7	-
(1)NCM 80 - 2A	0,75		6.65	57	0,86	0,75		4	35/450		0,001004	9.4	13
(1)NCM 80 - 2B	1.1		8.21	64	0,91	0,7		3.5	40/450		0,001158	10.8	14.5
(1)NCM 80 - 2C	1.3		10.36	62	0,88	0,65		4	45/450		0,001158	10.8	14.5
(1)NCM 90S - 2	1.5		10.09	68	0,95	0,75		4.5	55/450		0,002066	13.1	16.7
(1)NCM 90L - 2A	1.84		11.98	71	0,94	0,65		4.5	70/450	0,00239	15	19	
(1)NCM 90L - 2B	2.2		14.12	72	0,94	0,6		4.5	70/450	0,002725	16.5	20.6	
(1)NCM 100L - 2	3		19	72	0,95	0,6		4	85/450	0,004216	21,2	25.7	

4 Poli / Poles / Pôles / Polig / Poli

Motor type Tipo del motori Typ motoren Tip motor	P <sub>n</sub> [ kW ]	n [ min <sup>-1</sup> ]	I <sub>n</sub> ( 230 V ) [ A ]	η [ % ]	cos φ	$\frac{M_p}{M_n}$	$\frac{M_{max}}{M_n}$	$\frac{I_p}{I_n}$	C/Uc [ μF/V ]	L <sub>w</sub> [ dB(A) ]	J [ kg m <sup>2</sup> ]	m <sub>1</sub> 1NCM [ kg ]	m <sub>2</sub> NCM [ kg ]
1 NCM 71 - 4C	0,18	1300	1,5	56	0,93	0,7	1.7	2,5	10/450	80	0,000784	5.6	-
1 NCM 71 - 4A	0,25		2,22	51	0,96	0,9		2,5	16/450		0,000784	5.6	-
1 NCM 71 - 4B	0,37		2,98	58	0,93	0,7		3	20/450		0,001208	7,4	-
(1)NCM 80 - 4A	0,55		5,68	52	0,81	0,7		3	20/450		0,001497	9,1	12,9
(1)NCM 80 - 4B	0,75		5,97	60	0,91	0,7		3	30/450		0,001724	10,7	14
(1)NCM 90S - 4	1,1		8,4	63	0,90	0,65		3	30/450		0,004531	14,5	18,1
(1)NCM 90L - 4	1,5		12	64	0,85	0,65		3,5	40/450	0,005932	17,5	22	
(1)NCM 100L - 4A	1,84		14,6	63	0,87	0,65		4,5	70/450	0,00704	20,5	25.5	
(1)NCM 100L - 4B	2,2		15,9	67	0,90	0,60		4,5	80/450	0,00769	22	27.5	

6 Poli / Poles / Pôles / Polig / Poli

Motor type Tipo del motori Typ motoren Tip motor	P <sub>n</sub> [ kW ]	n [ min <sup>-1</sup> ]	I <sub>n</sub> ( 230 V ) [ A ]	η [ % ]	cos φ	$\frac{M_p}{M_n}$	$\frac{M_{max}}{M_n}$	$\frac{I_p}{I_n}$	C/Uc [ μF/V ]	L <sub>w</sub> [ dB(A) ]	J [ kg m <sup>2</sup> ]	m <sub>1</sub> 1NCM [ kg ]	m <sub>2</sub> NCM [ kg ]
1 NCM 71 - 6A	0,18	900	1,75	48	0,93	0,65	1.7	2	10/450	80	0,000968	6,5	-
1 NCM 71 - 6B	0,25		2,35	48	0,96	0,65		2	16/450		0,001208	7,4	-
(1)NCM 80 - 6A	0,37		3,14	54	0,95	0,6		2	16/450		0,001694	8,3	12,1
(1)NCM 80 - 6B	0,55		4,7	54	0,94	0,6		2,5	25/450		0,00248	12,5	14,1
(1)NCM 90S - 6	0,75		5,7	63	0,91	0,60		2,5	25/450		0,004911	14	17,6
(1)NCM 90L - 6	1,1		8,3	64	0,90	0,60		2,5	35/450		0,005932	17,5	22,5
(1)NCM 100L - 6	1,5		12	63	0,86	0,55		3	65/450		0,01060	20,6	26

**Constructia mecanică**  
**Mechanical construction** **Mechanische Ausführung**  
**Execution mecanique** **Esecuzione meccanica**

Tip Motor Motor Type Moteur Type Motortyp Tipo del motore	Gabarit Frame Size Gabarit Baugröße Grandezza	Carcasa Frame Carcasse Motorgehäuse Carcassa	Scuturi Shields Flasques Lagerschilder Scudi	
<b>NCM</b>	80 + 100	●	○	A
<b>1 NCM</b>	71 + 100	○	○	A

Siluminii Fonte	Siluminium Grey cast iron	Siluminium Grauguß	Siluminium Fonte grise	Silumin Ghisa griggia	○ ●
--------------------	------------------------------	-----------------------	---------------------------	--------------------------	--------

**Capăt de arbore**  
**Shaft extension** **Wellenendebohrung**  
**Bout d' arbre** **Estremita del albero**

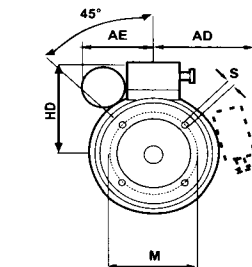
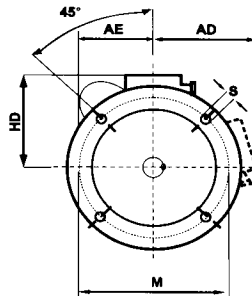
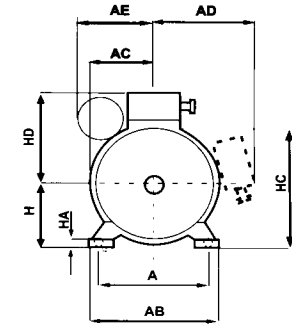
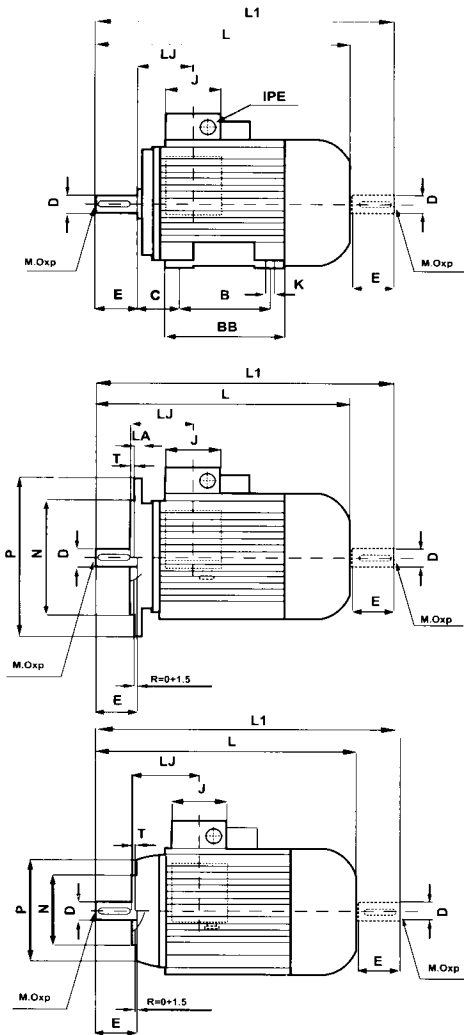
Gabarit Frame size Gabarit Baugröße Grandezza	D	E	F	GA	O	p
71	14 j6	30	5	16,1	5	12,5
80	19 j6	40	6	21,5	6	16
90S, 90L	24 j6	50	8	26,9	8	19
100L	28 j6	60	8	31	10	22

**Conectare la rețeaua electrică**  
**Connection to el. Network**  
**Raccordement du moteur sur le reseau d'alimentation**  
**Anschluß an das el. Stromnetz**  
**Allacciamento motore alla rete elettrica**

Gabarit Frame size Gabarit Baugröße Grandezza motore	Nr. de borne No. of terminals Nombre des bornes Zahl der Klemmen No. morsetti	Mărime bornă Terminal size Filetage des bornes Klemmengewinde Filettatura morsetti
71 + 100	5	M4


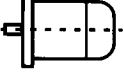
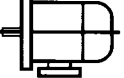
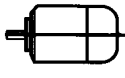
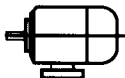


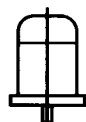
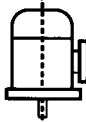

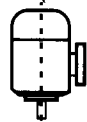


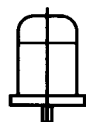
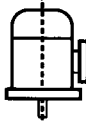

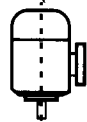


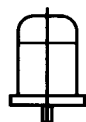
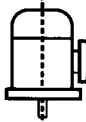

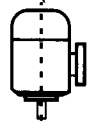

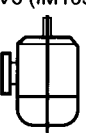


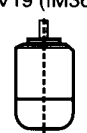


**Rulmenti (seria)**  
**Bearings (size)** **Roulements (series)**  
**Waelzlager**  
**Cuscinetti (serie)**

Gabarit Frame Size Grandeur Baugröße Grandezza			
71	6202	6202	
80	6204	6202	6204
90	6205	6204	6205
100	6206	6205	6206



**Dimensiuni de montaj / Mounting dimensions / Dimensions / Montageabmessungen / Dimensioni del motagio**

Gabarit FrameSize Grandeur Baugröße Grandezza	L max	Lv1	IPE	J max	AC max						<b>IMB3</b>					<b>IMB5</b>					<b>IMB14</b>								
						HD max	LJ max	AD max	HC max	LJ max	A	AB max	B	BB max	C	K	H	HA max	M	N	P	LA	S	T	M	N	P	S	T
71	243	285	13,5	85	72	95	117	76	-	-	112	142	90	110	45	7	71	10	130	110	160	9	10	3,5	85	70	105	M6	2,5
80	283	340	13,5	85	79	95	121	77	-	-	125	151	100	132	50	10	80	10	165	130	200	10	12	3,5	100	80	120	M6	3
90 S	315	387	13,5	85	90	105	130	83	-	-	140	166	100	132	56	10	90	10	165	130	200	10	12	3,5	115	95	140	M8	3
90 L	335	407	13,5	85	90	105	130	83	-	-	10	166	125	157	56	10	90	10	165	130	200	10	12	3,5	115	95	140	M8	3
100 L	368	435	13,5	85	99	115	142	82	-	-	160	190	140	183	63	12	100	12	215	180	250	11	15	4	130	110	160	M8	3,5

Forme constructive	IMB3 (IM1001) 	IMB5 (IM3001) 	IMB35 (IM2001) 	IMB14 (IM3601) 	IMB34 (IM2101) 	IMB6 (IM1051) 
Types of construction	IMV5 (IM1011) 	IMV1 (IM3011) 	IMV15 (IM2011) 	IMV18 (IM3611) 	IMV58 (IM2111) 	IMB7 (IM1061) 
Forme d'exécution						
Bauformen						
Li forme di esecuzione	IMV6 (IM1031) 	IMV3 (IM3031) 	IMV36 (IM2031) 	IMV19 (IM3631) 	IMV69 (IM2131) 	IMB8 (IM1071) 

## Normative / Regulations / Normes / Vorschriften / Norme

Caracteristici nominale si caracteristici functionale	Rotating electrical machines: Rating and performance	Caractéristiques assignées et caractéristiques de fonctionnement	Allgemeine Bestimmungen für elektrische Maschinen	Prescrizioni generali sulle macchine elettriche	CEI 34 - 1 DIN VDE 0530, Part 1	SR EN 60034 - 1+A1+A2: 2000
Dimensiuni de montaj	Mounting dimensions	Dimensions de fixation	Anbaumaße und Zuordnung	Le misure di accoppiamento	CEI 72 / 1 DIN 42673; DIN42677	SR CEI 60072 - 1 :1994
Grade de protectie	Classification of degrees of protection provided by enclosures for rotating electrical machines	Classification des degrés de protection procurés par les enveloppes des machines tournantes électriques	Schutzarten umlaufender elektrischer Maschinen	Protezione della macchine elettriche	CEI 34 - 5 DIN VDE 0530, Part 5	SR CEI 60034 - 5 - 93
Metode de racire	Methods of cooling	Modes de refroidissement	Kühlarten umlaufender elektrischer Maschinen	Tipi di raffreddamento della macchine elettriche	CEI 34 - 6 DIN IEC 34, Part 6	SR CEI 60034 - 6 : 1994
Forme constructive	Classification of types of constructions and mounting arrangements	Classification des formes de construction et des dispositions de montage	Bauformen umlaufender elektrischer Maschinen	Le forme delle macchine elettriche	CEI 34 - 7 DIN IEC 34, Part 7	SR EN 60034-7 : 1996
Marcarea extremitatilor înfasurarilor	Terminal markings and direction of rotation of rotating machines	Marques d'extrémités et sens de rotation des machines tournantes	Aschlußbezeichnung en und dreh Sinn für elektrischer Maschinen	Segni dei morsetti e sensi di rotazione delle macchine elettriche	CEI 34 - 8 DIN VDE 0530, Part 8	STAS 3530 - 89
Caracteristici de pornire	Starting performances	Caractéristiques du démarrage	Anlaufverhalten von Käfigläufer motoren	Le caratteristiche degli avviamenti di motori elettriche	CEI 34 - 12	SR CEI 60034 - 12 , +A1 : 1995
Tensiuni nominale	IEC standard voltages	Tensions normales de la CEI	IEC - normspannungen	Le tensioni standardizzate	CEI 38	SR CEI 60038 + A1 : 1997
Capete de arbore cilindrice	Cylindrical shaft extensions of electrical machines	Bouts d'arbre	Zylindrische Wellenenden	L'estremità cilindriche	CEI 72 / 1 DIN 748/3	SR CEI 60072 - 1 : 1994
Gaura de centrare filetată capăt arbore	Center holes for shaft end	Trous de centrage pour bout d'arbre	Zentrierbohrungen für Wellenenden	Foro nella estremita del albero	DIN 332/2 -DR	STAS 8198-78

Producătorul își rezervă dreptul de a face modificări tehnice curente fără obligația de a informa clientul.

The manufacturer preserves his rights to current technical improvements and changes without liability of informing the client.

Le producteur assume le droit de faire des modifications techniques courants sans l'obligation d'informer le client.

Der Hersteller behält sich das Recht auf laufende technische Verbesserungen und Änderungen der Konstruktion der Erzeugnisse ohne den Kunden darüber zu informieren.

Il produttore si riserva il diritto di fare modifiche tecniche senza essere obbligato di informare il cliente.

# BEGA ELECTR MOTOR S.A.

300159 TIMISOARA, Biv. REPUBLICII, PHONE 40-0256-492004, FAX 40-256-492003, ROMANIA  
E-mail: [emt@electromotor.ro](mailto:emt@electromotor.ro), <http://www.electromotor.ro>