

Servo braked motors

Series CK – CFK

DESCRIPTION

The new series of servo braked motors CK – CFK of our construction, was designed in order to improve both the motor and brake dynamic performance, this one has a lower moment of inertia respect the previous series MTK – MTFK. Therefore we have reached a more compact size and totally enclosed, according the norm IP 54 and, on request IP 55, brake included.

DIMENSIONS

Motors from size 71 to size 160 and forms B3, B5, B14 are standard construction. Different flanges are also available.

GENERAL FEATURES

Electromagnetic braking and dynamic braking are more soft and effective, with consequently less stressing for machine mechanical devices directly connected to the motor. The result is a less wear and a more durability of the whole.

ADJUSTABLE BRAKING TORQUE

In the technical data table, we can found the braking torque supplying the card dis. 047A with a voltage of 220 V or 380 V (see brake supply section).

ABSENCE OF WEAR AND MAINTENANCE

Because there are not during the braking friction devices, our motors don't need any maintenance or adjusting, so the braking action will be the same with the time.

HIGH DUTY CYCLE

This new series allow more number of start/stop operations than the previous one, because the moment of brake inertia is much less.

SILENTNESS

A not negligible feature of this braking system is the absolute silentness.

ESSENTIALLY DYNAMIC BRAKING

When motor is not supplied the shaft remains free of wheeling, allowing manual rotations for eventual positioning operations. The time needed to pass from the maximum speed to zero is however very little and it is characteristic of each motor. You can find these values in the motors data tables.

APPLICATIONS

These servo braked motors are particularly suitable for horizontal moving, machine tools, machine textiles, machine transfer, operating machine in general and in every circumstance where it is needed a quick stop of the motor without blocking the shaft.

SAFETY BRAKE

Only at some motors size (precisely from 71 to 80 and 90) we have added a stationary brake. The purpose is to obtain under every circumstance the dynamic braking till zero speed, disconnect the disc brake, only with the shaft stopped, or in case of emergency in order to maintain blocked the machine, without wear the brake elements. In this case we employ the card dis. 047 A.

BRAKE SUPPLY

In order to simplify the application of this motor and exploiting completely its characteristics, it was designed a power supply that incorporates both the functions of current rectifier and timer.

MOTORI 2 POLI

MOTORI 4 POLI

Motore Grandezza	Potenza KW	Velocita' Giri/min.	Corrente A	Coppia Non. Nm	Mon.D'inerzia J
71A	0.37	2720	1.1	1.26	0.00095
71B	0.55	2730	1.5	1.88	0.00112
80A	0.75	2740	1.8	2.52	0.00210
80B	1.1	2750	2.7	3.77	0.00232
90S	1.5	2760	3.4	5.02	0.00344
90L	2.2	2760	4.9	7.54	0.00390
100M	3	2770	6.5	1	0.00911
100L	4	2770	8.2	13.6	0.00974
112M	4	2800	8.2	13.6	0.01615
132SA	5.5	2900	11	18.5	0.03053
132SB	7.5	2910	15	25	0.03389
132MA	9	2910	18	31	0.03725
132MB	11	2910	22	37	0.04062
160MB	15	2930	30	49	0.18061
160L	18.5	2940	36	62	0.19205

Motore Grandezza	Potenza KW	Velocita' Giri/min.	Corrente A	Coppia Non. Nm	Mon.D'inerzia J
71A	0.25	1310	0.86	1.75	0.00124
71B	0.37	1320	1.2	2.5	0.00151
80A	0.55	1320	1.65	3.75	0.00252
80B	0.75	1340	2.1	5	0.00289
90S	1.1	1340	2.8	7.5	0.00441
90L	1.5	1360	3.7	10	0.00520
100M	2.2	1360	5.2	15	0.01100
100L	3	1380	6.8	20	0.01200
112M	4	1380	9	27	0.02269
132SA	5.5	1390	12	36	0.04380
132SB	7.5	1440	16	49	0.05221
132MA	9	1440	20	61	0.05782
132MB	11	1450	23	72	0.19680
160MB	15	1460	31	98	0.21810

MOTORI 6 POLI

MOTORI 8 POLI

Motore Grandezza	Potenza KW	Velocita' Giri/min.	Corrente A	Coppia Non. Nm	Mon.D'inerzia J
71A	0.18	870	0.8	2	0.00124
71B	0.22	870	1	2.3	0.00151
80A	0.37	880	1.2	3.7	0.00424
80B	0.55	880	1.7	5.6	0.00424
90S	0.75	900	2.3	7.5	0.00583
90L	1.1	900	3.2	11	0.00708
100M	1.5	910	4.1	15	0.01632
100L	2.2	910	5.8	22	0.02937
112M	3	950	7.5	30	0.05222
132SA	4	950	10	40	0.06366
132SB	5.5	960	13	54	0.06875
132MA	7.5	965	17	75	0.22845
160MB	11	965	24	108	0.26249

Motore Grandezza	Potenza KW	Velocita' Giri/min.	Corrente A	Coppia Non. Nm	Mon.D'inerzia J
71A	0.11	640	—	1.2	0.00124
71B	0.15	640	0.8	2	0.00151
80A	0.18	650	0.9	2.5	0.00424
80B	0.25	650	1	3.2	0.00424
90S	0.37	660	1.4	5	0.00583
90L	0.55	670	2	7.4	0.00708
100M	0.75	670	2.7	10	0.01632
100L	1.1	680	3.8	15	—
112M	1.5	680	4.9	20	0.02937
132SA	2.2	705	5.9	30	0.05222
132SB	3	705	7.8	40	0.06875
132MA	5.5	710	10	55	0.22845
160MB	7.5	710	14.5	75	0.26249

MOTORI 2/4 POLI

MOTORI 4/8 POLI

Motore Grandezza	KW 2 Poli	KW 4 Poli	Giri/min. 2 Poli	Giri/min. 4 Poli
71A	0.3	0.22	2670	1300
71B	0.45	0.3	2680	1310
80A	0.55	0.45	2680	1310
80B	0.75	0.6	2710	1310
90S	1.25	0.95	2740	1330
90L	1.7	1.3	2770	1350
100M	2.4	1.85	2770	1350
100L	3.3	2.6	2790	1370
112M	4.5	3.7	2820	1380
132SB	6	5	2900	1440
132MB	8	6.6	2900	1440
160MB	11	8.8	2920	1450
160L	15	12	2920	1450

Motore Grandezza	KW 4 Poli	KW 8 Poli	Giri/min. 4 Poli	Giri/min. 8 Poli
71A	—	—	—	—
71B	0.18	0.11	1290	640
80A	0.33	0.15	1310	660
80B	0.45	0.25	1320	660
90S	0.55	0.3	1320	660
90L	0.8	0.45	1320	670
100M	1.25	0.6	1340	670
100L	1.76	0.88	1360	670
112M	2.2	1.5	1380	680
132SB	3.3	2.2	1430	705
132MB	4.5	3	1430	705
160MB	7.5	5	1440	710
160L	10	7	1440	710

MOTORI 4/6 POLI

MOTORI 6/8 POLI

Motore Grandezza	KW 4 Poli	KW 6 Poli	Giri/min. 4 Poli	Giri/min. 6 Poli
71B	0.22	0.15	1310	860
80A	0.3	0.22	1310	860
80B	0.45	0.3	1310	860
90S	0.66	0.45	1330	870
90L	0.88	0.6	1330	870
100M	1.3	0.88	1360	880
100L	1.75	1.2	1370	900
112M	2.2	1.5	1430	910
132SB	3.3	2.2	1430	910
132MB	4.5	3	1430	940
160MB	6.6	4.5	1440	955
160L	8.8	6	1440	955

Motore Grandezza	KW 6 Poli	KW 8 Poli	Giri/min. 6 Poli	Giri/min. 8 Poli
71B	—	—	—	—
80A	—	—	—	—
80B	—	—	—	—
90S	0.37	0.25	870	660
90L	0.55	0.37	870	660
100M	0.75	0.55	880	670
100L	0.95	0.75	900	670
112M	1.25	0.95	900	670
132SB	2.2	1.3	940	700
132MB	3	1.85	950	705
160MB	5	3.7	950	705
160L	6.6	5	955	710

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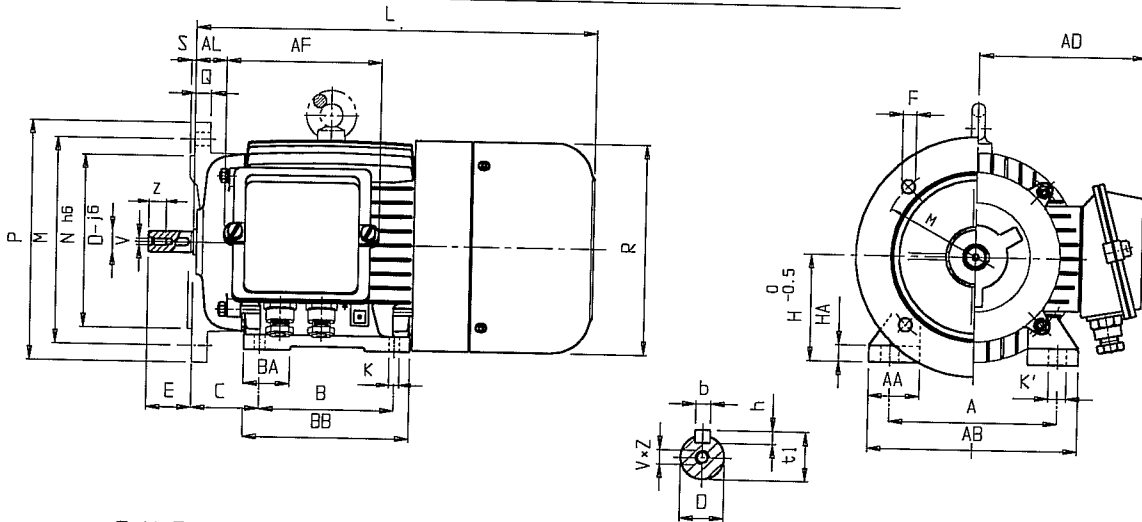
SCHEDA ALIMENTATA A 380V.

SCHEDA ALIMENTATA A 220V.

Motore Grandezza	Tensione Max. V	Corrente Max. a 20° Anp.	Coppia frenante Max. Nm	Tempo di frenatura Motore 4 poli nil/sec.
71A	170	2.6	6	33
71B	170	2.6	6	40
80A	170	2.1	10	53
80B	170	2.1	10	60
90S	170	4	13.5	52
90L	170	4	13.5	61
100M	170	5.5	34.5	50
100L	170	5.5	34.5	55
112M	170	7	40	85

Motore Grandezza	Tensione Max. V	Corrente Max. a 20° Anp.	Coppia frenante Max. Nm	Tempo di frenatura Motore 4 poli nil/sec.
71A	90	1.2	3	65
71B	90	1.2	3	79
80A	90	1.1	5	79
80B	90	1.1	5	90
90S	90	2	6.5	107
90L	90	2	6.5	125
100M	90	2.9	21	82
100L	90	2.9	21	125
112M	90	3.9	24	175

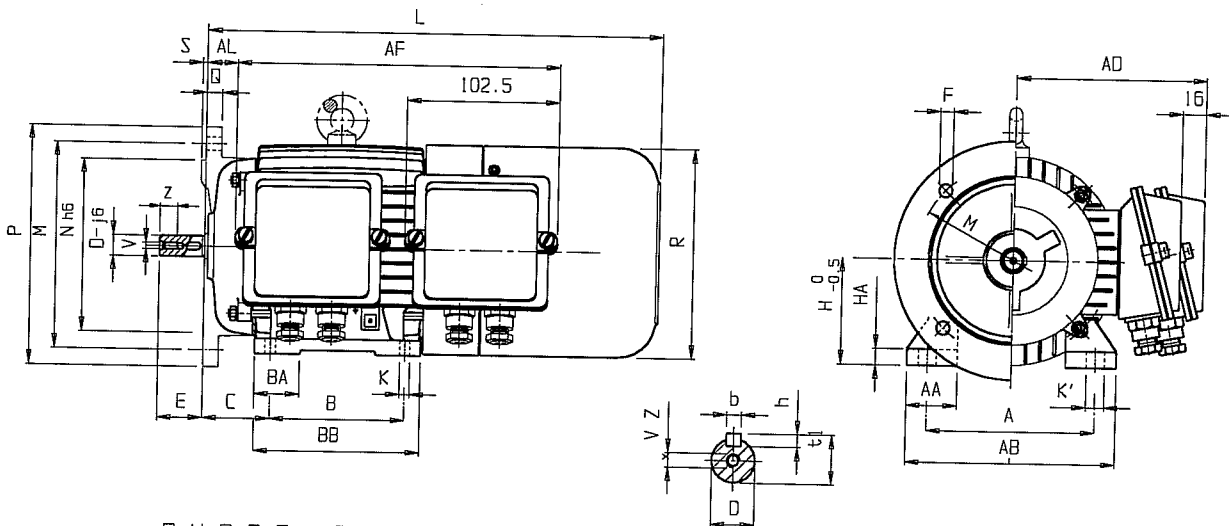
MOTORI SERIE "CK"-"CFK"



QUOTE INGOMBRO

Motore Grandezza	F o r n a B 3																F o r n a B 5						A l b e r o						
	A	AA	AB	AD	AF	AL	B	BA	BB	C	H	HA	K	K'	L	R	F	M	N	P	Q	S	D x E	b x h	t1	V x Z			
71	112	34	140	112	103	20	90	30	111	45	71	11	7	12	267	141	9.5	130	110	160	10	2.5	14	30	5	5	16	M5	12.5
80	125	34	160	125	118	20	100	30	125	50	80	11	9	17	293	160	11.5	165	130	200	12	3	19	40	6	6	21.5	M6	16
90S	140	43	182	135	118	25	100	35	130	56	90	13	9	17	309	176	11.5	165	130	200	12	3	24	50	8	7	27	M8	19
90L	140	43	182	135	118	25	125	35	155	56	90	13	9	17	334	176	11.5	165	130	200	12	3	24	50	8	7	27	M8	19
100M	160	47	175	145	118	45	140	37	177	63	100	13	11	19	328	195	14	215	180	250	15	4	28	60	8	7	31	M10	22
100L	160	47	175	145	118	45	140	37	177	63	100	13	11	19	328	195	14	215	180	250	15	4	28	60	8	7	31	M10	22
112M	190	57	175	158	118	45	140	40	236	70	112	14	14	21	410	220	14	215	180	250	15	4	28	60	8	7	31	M10	22
132SB	216	57	260	177	118	45	178	43	218	89	132	20	12	22	378	258	14	265	230	300	17	4	38	80	10	8	41	M12	32
132MA	216	57	260	177	118	45	178	43	218	89	132	20	12	22	418	258	14	265	230	300	17	4	38	80	10	8	41	M12	32
132MB											132																		
160MB											160																		
160L											160																		

MOTORI SERIE "CKA"-"CFKA"



QUOTE INGOMBRO

Motore Grandezza	Forno B3																Forno B5						Albero						
	A	AA	AB	AD	AF	AL	B	BA	BB	C	H	HA	K	K'	L	R	F	M	N	P	Q	S	D x E	b x h	t1	V x Z			
71	112	34	140	128	217	20	90	30	111	45	71	11	7	12	315	141	9.5	130	110	160	10	2.5	14	30	5	5	16	M5	12.5
80	125	34	160	142	236	20	100	30	125	50	80	11	9	17	348	160	11.5	165	130	200	12	3	19	40	6	6	21.5	M6	16
90S	140	43	182	152	239	25	100	35	130	56	90	13	9	17	373	176	11.5	165	130	200	12	3	24	50	8	7	27	M8	19
90L	140	43	182	152	264	25	125	35	155	56	90	13	9	17	388	176	14	215	180	250	15	4	28	60	8	7	31	M10	22
100M											100																		
100L											100																		
112M											112																		
132SB											132																		
132MA											132																		
132MB											132																		
160MB											160																		
160L											160																		

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S.B.C.
ELETTRONICA

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Disegn.: 03-06-95
Contr.: 03-06-95
Modif. to: 12/05/00
REV. 2

Denominazione: QUOTE INGOMBRO

Motore tipo: CK / CKA

DIS. QICK/CKA