

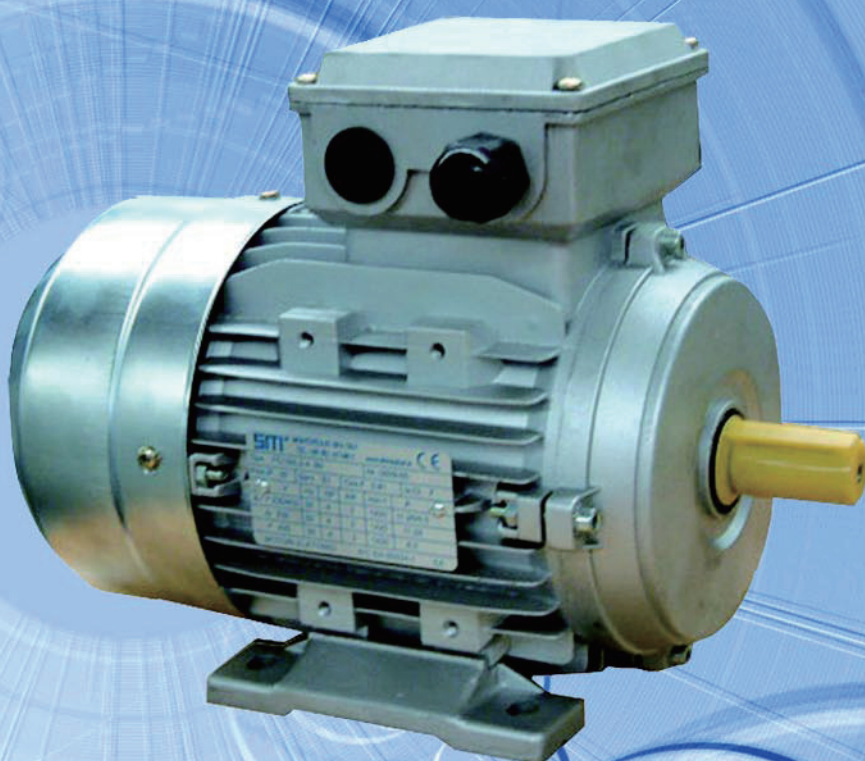
SITI

SPA

SOCIETÀ ITALIANA TRASMISSIONI INDUSTRIALI



MOTORS



技术与商务目录

TECHNICAL & COMMERCIAL CATALOGUE

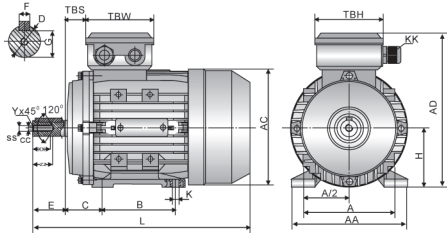
01.2010

FC系列三相异步铝壳电机

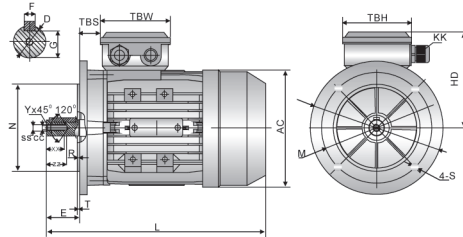
FC SERIES THREE-PHASE ASYNCHRONOUS MOTORS
ALUMINUM HOUSING

TECHNICAL DATA 技术参数 @50Hz

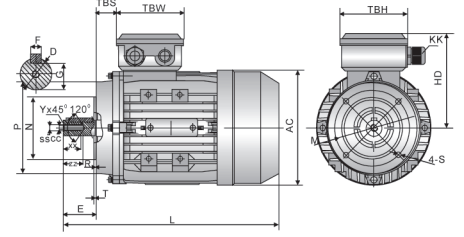
型号 Model	功率 Power (KW)	电流 Current (A)			电流 Current (A)			电流 Current (A)			转速 Speed (r/min)	效率 Eff. (%)	功率 因素 Power Factor	启动转矩/ 额定转矩 Tstart/Tn (Times)	最大转矩/ 额定转矩 Tmax/Tn (Times)	最小转矩/ 额定转矩 Tmin/Tn (Times)	启动电流/ 额定电流 Is/In (Times)	噪音 Noise dB(A)	重量 W.t. (Kg)
		220V	380V	660V	230V	400V	690V	240V	415V	720V									
FC56A-2	0.09	0.64	0.37	0.21	0.61	0.35	0.20	0.58	0.34	0.19	2670	57	0.65	2.2	2.4	1.6	6	58	2.8
FC56B-2	0.12	0.74	0.43	0.25	0.70	0.40	0.23	0.67	0.39	0.22	2730	62	0.69	2.2	2.4	1.6	6	58	3.2
FC56C-2	0.18	1.0	0.58	0.34	0.96	0.56	0.32	0.93	0.54	0.31	2750	65	0.72	2.2	2.4	1.6	6	59	3.5
FC63A-2	0.18	1.00	0.58	0.33	0.95	0.55	0.32	0.92	0.53	0.31	2710	63	0.75	2.2	2.4	1.6	6	61	4
FC63B-2	0.25	1.29	0.75	0.43	1.23	0.71	0.41	1.19	0.69	0.40	2710	65	0.78	2.2	2.4	1.6	6	61	4.4
FC63C-2	0.37	1.92	1.11	0.64	1.82	1.05	0.61	1.76	1.02	0.59	2710	65	0.78	2.2	2.4	1.6	6	62	4.9
FC71A-2	0.37	1.76	1.02	0.59	1.67	0.97	0.56	1.61	0.93	0.54	2730	70	0.79	2.2	2.4	1.6	6	64	5.6
FC71B-2	0.55	2.57	1.49	0.86	2.45	1.42	0.82	2.36	1.36	0.79	2760	71	0.79	2.2	2.4	1.6	6	64	6.1
FC71C-2	0.75	3.33	1.93	1.11	3.18	1.83	1.06	3.06	1.77	1.02	2730	72	0.82	2.2	2.4	1.5	6	65	7
FC80A-2	0.75	3.21	1.86	1.07	3.06	1.77	1.02	2.94	1.70	0.98	2770	73	0.84	2.2	2.4	1.5	6	67	9.1
FC80B-2	1.1	4.56	2.64	1.52	4.35	2.51	1.45	4.18	2.42	1.39	2770	76.2	0.83	2.2	2.4	1.5	6	67	10.2
FC80C-2	1.5	6.04	3.50	2.01	5.87	3.32	1.92	5.54	3.20	1.85	2800	78.5	0.83	2.2	2.4	1.5	6	70	11.7
FC90S-2	1.5	5.97	3.46	1.99	5.76	3.28	1.90	5.47	3.16	1.82	2840	78.5	0.84	2.2	2.4	1.5	6	72	12
FC90LA-2	2.2	8.39	4.85	2.80	8.0	4.61	2.66	7.69	4.45	2.56	2840	81	0.85	2.2	2.4	1.4	6	72	15
FC90LB-2	3	11.08	6.42	3.69	10.56	6.10	3.52	10.16	5.88	3.39	2840	82.6	0.86	2.2	2.4	1.4	6	74	18.5
FC100LA-2	3	10.96	6.34	3.65	10.44	6.03	3.48	10.04	5.81	3.35	2840	82.6	0.87	2.2	2.3	1.4	7	76	22.3
FC56A-4	0.06	0.55	0.32	0.18	0.52	0.30	0.17	0.50	0.29	0.17	1320	48.5	0.59	2.3	2.4	1.7	6	50	3
FC56B-4	0.09	0.77	0.45	0.26	0.74	0.43	0.25	0.71	0.41	0.24	1320	50	0.61	2.3	2.4	1.7	6	50	3.3
FC56C-4	0.12	0.96	0.56	0.32	0.92	0.53	0.31	0.88	0.51	0.29	1320	52	0.63	2.2	2.4	1.7	6	51	3.5
FC63A-4	0.12	0.86	0.50	0.29	0.82	0.47	0.27	0.79	0.46	0.26	1350	57	0.64	2.2	2.4	1.7	6	52	3.9
FC63B-4	0.18	1.23	0.71	0.41	1.17	0.68	0.39	1.13	0.65	0.38	1350	59	0.65	2.2	2.4	1.7	6	52	4.3
FC63C-4	0.25	1.66	0.96	0.55	1.58	0.91	0.53	1.52	0.88	0.51	1350	60	0.66	2.2	2.4	1.7	6	54	4.8
FC71A-4	0.25	1.52	0.88	0.51	1.45	0.84	0.48	1.39	0.81	0.46	1350	60	0.72	2.2	2.4	1.7	6	55	5.4
FC71B-4	0.37	2.02	1.17	0.67	1.92	1.11	0.64	1.85	1.07	0.62	1370	65	0.74	2.2	2.4	1.7	6	55	6.2
FC71C-4	0.55	2.92	1.69	0.97	2.78	1.60	0.93	2.67	1.55	0.89	1380	66	0.75	2.2	2.4	1.7	6	57	7.3
FC80A-4	0.55	2.87	1.66	0.96	2.74	1.58	0.91	2.63	1.52	0.88	1370	67	0.75	2.2	2.4	1.7	6	58	9
FC80B-4	0.75	3.50	2.03	1.17	3.34	1.93	1.11	3.21	1.86	1.07	1380	72	0.78	2.2	2.4	1.5	6	58	10
FC80C-4	1.1	4.86	2.81	1.62	4.63	2.67	1.54	4.45	2.57	1.48	1390	76.2	0.78	2.2	2.4	1.5	6	60	12.3
FC90S-4	1.1	4.80	2.78	1.60	4.57	2.64	1.52	4.40	2.54	1.47	1400	76.2	0.79	2.2	2.4	1.5	6	61	12.1
FC90L-4	1.5	6.27	3.63	2.09	5.97	3.45	1.99	5.75	3.32	1.92	1400	78.5	0.8	2.2	2.4	1.5	6	61	14.6
FC90LB-4	2.2	8.91	5.16	2.97	8.45	4.90	2.83	8.17	4.72	2.72	1400	81	0.8	2.2	2.4	1.	7	63	18.3
FC100LA-4	2.2	8.80	5.09	2.93	8.38	4.84	2.79	8.07	4.66	2.69	1420	81	0.81	2.2	2.3	1.5	7	64	21
FC100LB-4	3	11.77	6.81	3.92	11.21	6.47	3.74	10.79	6.24	3.60	1420	82.6	0.81	2.2	2.3	1.5	7	64	24.7
FC100LC-4	4	15.20	8.80	5.07	14.18	8.36	4.83	13.94	8.06	4.65	1430	84.2	0.82	2.2	2.2	1.5	7	65	29
FC112M-4	4	15.02	8.70	5.01	14.31	8.26	4.77	13.77	7.96	4.59	1430	84.2	0.83	2.2	2.2	1.5	7	65	30.5
FC112L-4	5.5	20.29	11.75	6.76	19.33	11.16	6.44	18.60	10.76	6.20	1440	85.7	0.83	2.2	2.2	1.4	7	68	34.8
FC132S-4	5.5	20.05	11.61	6.68	19.1	11.03	6.37	18.38	10.63	6.13	1450	85.7	0.84	2.2	2.2	1.4	7	71	40.4
FC132M-4	7.5	26.62	15.41	8.87	25.35	14.64	8.45	24.40	14.11	8.13	1450	87	0.85	2.2	2.2	1.4	7	71	49.6
FC63A-6	0.09	0.92	0.53	0.31	0.88	0.51	0.29	0.85	0.49	0.28	840	42	0.61	2	2	1.5	3.5	50	4.2
FC63B-6	0.12	1.129	0.65	0.38	1.08	0.62	0.36	1.03	0.60	0.34	850	45	0.62	2	2	1.5	3.5	50	4.8
FC71A-6	0.18	1.28	0.74	0.43	1.22	0.70	0.41	1.17	0.68	0.39	880	56	0.66	1.6	1.7	1.5	4	52	6
FC71B-6	0.25	1.6	0.92	0.53	1.51	0.87	0.50	1.46	0.84	0.49	900	59	0.7	2.1	2.2	1.5	4	52	6.5
FC71C-6	0.37	2.31	1.34	0.77	2.2	1.27	0.73	2.11	1.22	0.70	890	61	0.69	2	2.1	1.5	4	54	7.2
FC80A-6	0.37	2.24	1.30	0.75	2.13	1.23	0.71	2.05	1.19	0.68	900	62	0.7	1.9	1.9	1.5	4	56	8.2
FC80B-6	0.55	2.99	1.73	1.00	2.85	1.65	0.95	2.74	1.59	0.91	900	67	0.72	2	2.3	1.5	4	56	9.9
FC80C-6	0.75	4.02	2.33	1.34	3.83	2.21	1.28	3.69	2.13	1.23	900	68	0.72	2	2.3	1.5	4	58	11.3
FC90S-6	0.75	3.96	2.29	1.32	3.77	2.18	1.26	3.63	2.10	1.21	920	69	0.72	2.2	2.2	1.5	5.5	59	11.7
FC90L-6	1.1	5.49	3.18	1.83	5.23	3.02	1.74	5.03	2.91	1.68	925	72	0.73	2.2	2.2	1.3	5.5	59	15.1
FC100L-6	1.5	7.00	4.05	2.33	6.67	3.85	2.22	6.42	3.71	2.14	945	74	0.76	2.2	2.2	1.3	6	61	19.1
FC112M-6	2.2	9.74	5.64	3.25	9.28	5.36	3.09	8.93	5.16	2.98	955	78	0.76	2.2	2.2	1.3	6	64	25.4



B3



B5



B14

B3机身及安装尺寸 B3 Overall & Installation Dimensions

160M/L	160	254	210/254	108	Φ42	110	12	37	15X19	290	390	Φ320	640	705	2-M32X1.5	64	143	146	M16	35	42	14.2	2
132M/L	132	216	178	89	Φ38	80	10	33	12X16	252	325	Φ270	474/500	564/590	2-M25X1.5	38	112	119	M12	28	34	10.2	1.5
132S	132	216	140	89	Φ38	80	10	33	12X16	252	325	Φ270	436	553	2-M25X1.5	38	112	119	M12	28	34	10.2	1.5
112	112	190	140	70	Φ28	60	8	24	12X16	220	292	Φ230	395	483	2-M25X1.5	32	112	119	M10	22	28	8.5	1.5
100☆☆	100	160	140	63	Φ28	60	8	24	12X16	196	252	Φ205	368(386)	474	1-M20X1.5	26	105	105	M10	22	28	8.5	1.5
90L1/L2	90	140	125	56	Φ24	50	8	20	10X13	175	235	Φ185	335/365	392	1-M20X1.5	30	105	105	M8	20	25	6.8	1
90S	90	140	100	56	Φ24	50	8	20	10X13	175	235	Φ185	310	367	1-M20X1.5	30	105	105	M8	20	25	6.8	1
80	80	125	100	50	Φ19	40	6	15.5	10X13	160	217	Φ165	290	353	1-M20X1.5	27	105	105	M6	16	22	5	1
71☆☆	71	112	90	45	Φ14	30	5	11	7X10	132	188/180	Φ145	240(254)	307	1-M20X1.5	20/27	94/80	94/80	M5	12	18	4.2	0.8
63	63	100	80	40	Φ11	23	4	8.5	7X10	120	173/165	Φ130	215	265	1-M16X1.5	14/21	94/80	94/80	M4	10	15	3.3	0.8
56	56	90	71	36	Φ9	20	3	7.2	5.8X8.8	110	156/151	Φ120	195		1-M16X1.5	14/21	88/73	88/73	M3	8	12	2.5	0.5
FRAME	H	A	B	C	D	E	F	G	K	AA	AD	AC	L	FCB [☆]	KK	TBS	TBW	TBH	SS	XX	ZZ	CC	Y

B5机身及安装尺寸 B5 Overall & Installation Dimensions

160M/L	Φ300	Φ250	Φ350	5.0	Φ19	0							Φ42	110	12	37	2-M32X1.5	Φ320	230	640	705	64	143	146	M16	35	42	14.2	2
132M/L	Φ265	Φ230	Φ300	4.0	Φ15	0	Φ215	Φ180	Φ250	4.0	Φ15	0	Φ38	80	10	33	2-M25X1.5	Φ270	193	474/500	564/590	38	112	119	M12	28	34	10.2	1.5
132S	Φ265	Φ230	Φ300	4.0	Φ15	0	Φ215	Φ180	Φ250	4.0	Φ15	0	Φ38	80	10	33	2-M25X1.5	Φ270	193	436	553	38	112	119	M12	28	34	10.2	1.5
112	Φ215	Φ180	Φ250	4.0	Φ15	0	Φ165	Φ130	Φ200	3.5	Φ12	0	Φ28	60	8	24	2-M25X1.5	Φ230	180	395	483	32	112	119	M10	22	28	8.5	1.5
100☆☆	Φ215	Φ180	Φ250	4.0	Φ15	0	Φ165	Φ130	Φ200	3.5	Φ12	0	Φ28	60	8	24	1-M20X1.5	Φ205	152	368(386)	474	26	105	105	M10	22	28	8.5	1.5
90L1/L2	Φ165	Φ130	Φ200	3.5	Φ12	0	Φ130	Φ110	Φ160	3.5	Φ12	0	Φ24	50	8	20	1-M20X1.5	Φ185	145	335/365	392	30	105	105	M8	20	25	6.8	1
90S	Φ165	Φ130	Φ200	3.5	Φ12	0	Φ130	Φ110	Φ160	3.5	Φ12	0	Φ24	50	8	20	1-M20X1.5	Φ185	145	310	367	30	105	105	M8	20	25	6.8	1
80	Φ165	Φ130	Φ200	3.5	Φ12	0	Φ130	Φ110	Φ160	3.5	Φ10	0	Φ19	40	6	15.5	1-M20X1.5	Φ165	137	290	353	27	105	105	M6	16	22	5	1
71☆☆	Φ130	Φ110	Φ160	3.5	Φ10	0	Φ115	Φ95	Φ140	3.0	Φ10	0	Φ14	30	5	11	1-M20X1.5	Φ145	117/109	240(254)	307	20/27	94/80	94/80	M5	12	18	4.2	0.8
63	Φ115	Φ95	Φ140	3.0	Φ10	0							Φ11	23	4	8.5	1-M16X1.5	Φ130	110/102	215	265	14/21	94/80	94/80	M4	10	15	3.3	0.8
56	Φ100	Φ80	Φ120	3.0	Φ7	0							Φ9	20	3	7.2	1-M16X1.5	Φ120	100/95	195		14/21	88/73	88/73	M3	8	12	2.5	0.5
FRAME	M	N	P	T	S	R	M	N	P	T	S	R	D	E	F	G	KK	AC	HD	L	FCB [☆]	TBS	TBW	TBH	SS	XX	ZZ	CC	Y
	B5						B5R																						

B14机身及安装尺寸 B14 Overall & Installation Dimensions

132M/L	Φ130	Φ165	Φ200	3.5	0	M10	Φ180	Φ215	Φ250	4.0	0	M12	Φ38	80	10	33	2-M32X1.5	Φ270	193	475/500	564/590	38	112	119	M12	28	34	10.2	1.5
132S	Φ130	Φ165	Φ200	3.5	0	M10	Φ180	Φ215	Φ250	4.0	0	M12	Φ38	80	10	33	2-M25X1.5	Φ270	193	436	553	38	112	119	M12	28	34	10.2	1.5
112	Φ110	Φ130	Φ160	3.5	0	M8	Φ130	Φ165	Φ200	3.5	0	M10	Φ28	60	8	24	2-M25X1.5	Φ230	180	395	483	32	112	119	M10	22	28	8.5	1.5
100☆☆	Φ110	Φ130	Φ160	3.5	0	M8	Φ130	Φ165	Φ200	3.5	0	M10	Φ28	60	8	24	1-M25X1.5	Φ205	152	368(386)	474	26	105	105	M10	22	28	8.5	1.5
90L1/L2	Φ95	Φ115	Φ140	3.0	0	M8	Φ110	Φ130	Φ160	3.5	0	M8	Φ24	50	8	20	1-M20X1.5	Φ185	145	335/365	392	30	105	105	M8	20	25	6.8	1
90S	Φ95	Φ115	Φ140	3.0	0	M8	Φ110	Φ130	Φ160	3.5	0	M8	Φ24	50	8	20	1-M20X1.5	Φ185	145	310	367	30	105	105	M8	20	25	6.8	1
80	Φ80	Φ100	Φ120	3.0	0	M6	Φ110	Φ130	Φ160	3.5	0	M8	Φ19	40	6	15.5	1-M20X1.5	Φ165	137	290	353	27	105	105	M6	16	22	5	1
71☆☆	Φ70	Φ85	Φ105	2.5	0	M6	Φ95	Φ115	Φ140	3.0	0	M8	Φ14	30	5	11	1-M20X1.5	Φ145	117/109	240(254)	307	20/27	94/80	94/80	M5	12	18	4.2	0.8
63	Φ60	Φ75	Φ90	2.5	0	M5	Φ80	Φ100	Φ120	3.0		M6	Φ11	23	4	8.5	1-M16X1.5	Φ130	110/102	215	265	14/21	94/80	94/80	M4	10	15	3.3	0.8
56	Φ50	Φ65	Φ80	2.5	0	M5							Φ9	20	3	7.2	1-M16X1.5	Φ120	100/95	195		14/21	88/73	88/73	M3	8	12	2.5	0.5
FRAME	N	M	P	T	R	S	N	M	P	T	R	S	D	E	F	G	KK	AC	HD	L	FCB [☆]	TBS	TBW	TBH	SS	XX	ZZ	CC	Y
	B14						B14B																						

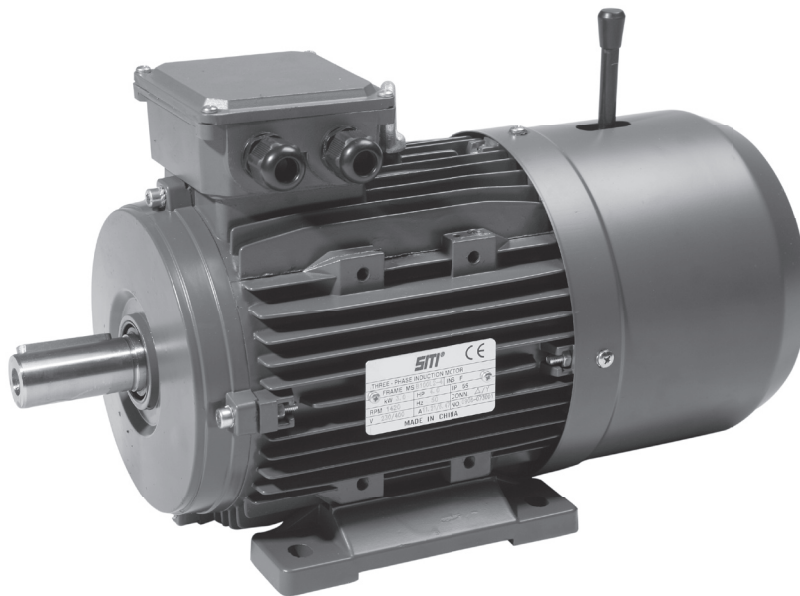
☆: 刹车电机 For Brake Motors

☆☆: 此机身有两种尺寸额定输出为正常“L”尺寸, 比额定再大的“L”尺寸(参见“()”中的数据)

This frame size has two housing sizes, the rated output is for normal “L” size, and increased output is for the bigger “L” size (refer to the figures in the bracket “()”)

FCB/FCBS Series

Asynchronous Three-Phase Brake Motors With Squirrel Cage Rotor · Direct Current Brake



· FCB/FCBS series-enclosed construction externally ventilated-sizes 63~160

The brake-motors of the FCB/FCBS series result from coupling an asynchronous three-phase motor and an electromagnetic D.C. brake unit. Due to their reliability and operating safety, as well as their quick braking time (connection & disconnection time = 5~80 milliseconds) they are suitable for a great variety of applications, such as:

- Braking of loads or torques on the driving shaft.
- Braking of rotating masses to reduce any lost-time.
- Braking operations to increase the set-up precision.
- Braking of machine parts, according to safety rules.

Technical Features

2 poles-3000rpm-50Hz

Brake motors have a $\pm 6\%$ tolerance on the supply voltage

Model	Power (KW)	Speed (r/min)	Eff. (%)	Power Factor (Cos ϕ)	Current (A)			T _{st} /T _n (Times)	T _{max} /T _n (Times)	T _{min} /T _n (Times)	I _{st} /I _n (Times)	Noise dB(A)
					230V	400V	690V					
FCB63A-2	0.18	2710	63	0.75	0.95	0.55	0.32	2.2	2.4	1.6	6	61
FCB63B-2	0.25	2710	65	0.78	1.23	0.71	0.41	2.2	2.4	1.6	6	61
FCB63C-2	0.37	2710	65	0.78	1.82	1.05	0.61	2.2	2.4	1.6	6	62
FCB71A-2	0.37	2730	70	0.79	1.67	0.97	0.56	2.2	2.4	1.6	6	64
FCB71B-2	0.55	2760	71	0.79	2.45	1.42	0.82	2.2	2.4	1.6	6	64
FCB71C-2	0.75	2730	72	0.82	3.18	1.83	1.06	2.2	2.4	1.5	6	65
FCB80A-2	0.75	2770	73	0.84	3.06	1.77	1.02	2.2	2.4	1.5	6	67
FCB80B-2	1.1	2770	76.2	0.83	4.35	2.51	1.45	2.2	2.4	1.5	6	67
FCB80C-2	1.5	2800	78.5	0.83	5.87	3.32	1.92	2.2	2.4	1.5	6	70
FCB90S-2	1.5	2840	78.5	0.84	5.76	3.28	1.90	2.2	2.4	1.5	6	72
FCB90LA-2	2.2	2840	81	0.85	8.0	4.61	2.66	2.2	2.4	1.4	6	72
FCB90LB-2	3	2840	82.6	0.86	10.56	6.10	3.52	2.2	2.4	1.4	6	74
FCB100LA-2	3	2840	82.6	0.87	10.44	6.03	3.48	2.2	2.3	1.4	7	76
FCB100LB-2	4	2850	84.2	0.87	13.65	7.88	4.55	2.2	2.3	1.4	7.5	77
FCB112M-2	4	2880	84.2	0.87	13.65	7.88	4.55	2.2	2.3	1.4	7.5	77
FCB112L-2	5.5	2880	85.7	0.88	18.23	10.53	6.08	2.2	2.3	1.2	7.5	78
FCB132SA-2	5.5	2900	85.7	0.88	18.23	10.53	6.08	2	2.2	1.2	7.5	80
FCB132SB-2	7.5	2920	87	0.88	24.49	14.14	8.16	2	2.2	1.2	7.5	80
FCB132MA-2	9.2	2930	88	0.89	29.87	17.25	9.96	2	2.2	1.2	7.5	81
FCB132MB-2	11	2930	88.4	0.9	34.57	19.96	11.52	2	2.2	1.2	7.5	83
FCB160MA-2	11	2940	88.4	0.9	34.57	19.96	11.52	2	2.2	1.2	7.5	86
FCB160MB-2	15	2940	89.4	0.91	46.09	26.61	15.36	2	2.2	1.2	7.5	86
FCB160L-2	18.5	2940	90	0.91	56.47	32.6	18.82	2	2.2	1.1	7.5	86

Type	Brake Type K	Brake Torque Nm	Brake Rated Power W	J Brake Pd ² Kgm ²	No. of Starts/hr. Under No Load	Delayed Cut-in Time ★ Msec.	Quick Cut-in Time Msec.	Cut Out Time Msec.	Noise dB(A)
FCB 63	K 1	5	15	0.00005	3000	45	20	10	62
FCB 71	K 2	12	20	0.00014	3000	50	30	15	64
FCB 80	K 3	16	25	0.00021	1300	55	30	15	67
FCB 90S	K 4	20	30	0.00039	1100	65	40	15	72
●FCB 90S	K 4 D	40	30	0.00078	1100	65	40	15	72
FCB 90 L	K 4	20	30	0.00039	1100	65	40	15	72
●FCB 90 L	K 4 D	40	30	0.00078	1100	65	40	15	72
FCB 100 L	K 5	40	45	0.00104	900	75	45	20	76
●FCB 100 L	K 6	60	50	0.00135	900	180	85	25	76
FCB 12 MT	K 5	40	45	0.00104	880	75	45	20	77
FCB 112 M	K 6	60	50	0.00135	880	180	85	25	78
FCB 132 S	K 7	90	55	0.00219	480	200	95	50	80
●FCB 132 S	K 7 D	180	55	0.00438	480	200	95	50	80
FCB 132 M	K 7	90	55	0.00219	450	200	95	50	80
●FCB 132 M	K 7 D	180	55	0.00438	480	200	95	50	80
FCB 160 MT	K 7 D	180	55	0.00438	350	200	95	50	86
FCB 160 L	K 8	200	60	0.00408	350	210	100	60	86
●FCB 160 L	K 8 D	400	60	0.00816	350	210	100	60	86

● Motor with increased braking torque on request

★ On request, delayed brake cut in time for lifting equipments. We suggest double disk brake D for lifting equipments.

Technical Features

4 poles-1500rpm-50Hz

Brake motors have a $\pm 6\%$ tolerance on the supply voltage

Model	Power (KW)	Speed (r/min)	Eff. (%)	Power Factor (Cos ϕ)	Current (A)			T _{st} /T _n (Times)	T _{max} /T _n (Times)	T _{min} /T _n (Times)	I _{st} /I _n (Times)	Noise dB(A)
					230V	400V	690V					
FCB 63A-4	0.12	1350	57	0.64	0.82	0.47	0.27	2.2	2.4	1.7	6	52
FCB 63B-4	0.18	1350	59	0.65	1.17	0.68	0.39	2.2	2.4	1.7	6	52
FCB 63C-4	0.25	1350	60	0.66	1.58	0.91	0.53	2.2	2.4	1.7	6	54
FCB 71A-4	0.25	1350	60	0.72	1.45	0.84	0.48	2.2	2.4	1.7	6	55
FCB 71B-4	0.37	1370	65	0.74	1.92	1.11	0.64	2.2	2.4	1.7	6	55
FCB 71C-4	0.55	1380	66	0.75	2.78	1.60	0.93	2.2	2.4	1.7	6	57
FCB 80A-4	0.55	1370	67	0.75	2.74	1.58	0.91	2.2	2.4	1.7	6	58
FCB 80B-4	0.75	1380	72	0.78	3.34	1.93	1.11	2.2	2.4	1.6	6	58
FCB 80C-4	1.1	1390	76.2	0.78	4.63	2.67	1.54	2.2	2.4	1.6	6	60
FCB 90S-4	1.1	1400	76.2	0.79	4.57	2.64	1.52	2.2	2.4	1.6	6	61
FCB 90L-4	1.5	1400	78.5	0.8	5.97	3.45	1.99	2.2	2.4	1.6	6	61
FCB90LB-4	2.2	1400	81	0.8	8.45	4.90	2.83	2.2	2.4	1.5	7	63
FCB100LA-4	2.2	1420	81	0.81	8.38	4.84	2.79	2.2	2.3	1.5	7	64
FCB100LB-4	3	1420	82.6	0.81	11.21	6.47	3.74	2.2	2.3	1.5	7	64
FCB100LC-4	4	1430	84.2	0.82	14.18	8.36	4.83	2.2	2.3	1.5	7	65
FCB112M-4	4	1430	84.2	0.83	14.31	8.26	4.77	2.2	2.2	1.5	7	65
FCB112L-4	5.5	1440	85.7	0.83	19.33	11.16	6.44	2.2	2.2	1.4	7	68
FCB132S-4	5.5	1450	85.7	0.84	19.1	11.03	6.37	2.2	2.2	1.4	7	71
FCB132M-4	7.5	1450	87	0.85	25.35	14.64	8.45	2.2	2.2	1.4	7	71
FCB132LA-4	9.2	1460	87.5	0.85	30.92	17.85	10.31	2.2	2.2	1.4	7.5	74
FCB132LB-4	10	1460	88	0.85	33.42	19.3	11.14	2.2	2.2	1.4	7.5	74
FCB132LB-4	11	1460	88.4	0.86	36.17	20.88	12.06	2.2	2.2	1.4	7.5	74
FCB160M-4	11	1460	88.4	0.87	35.76	20.64	11.92	2.2	2.2	1.4	7	75
FCB160L-4	15	1460	88.4	0.87	48.76	28.15	16.25	2.2	2.2	1.4	7.5	75

Type	Brake Type K	Brake Torque Nm	Brake Rated Power W	J Brake Pd ² Kgm ²	No. of Starts/hr. Under No Load	Delayed Cut-in Time ★ Msec.	Quick Cut-in Time Msec.	Cut Out Time Msec.	Noise dB(A)
FCB 63	K 1	5	15	0.00005	3000	45	20	10	52
FCB 71	K 2	12	20	0.00014	3000	50	30	15	55
FCB 80	K 3	16	25	0.00021	1300	55	30	15	58
FCB 90S	K 4	20	30	0.00039	1100	65	40	15	61
●FCB 90S	K 4 D	40	30	0.00078	1100	65	40	15	61
FCB 90 L	K 4	20	30	0.00039	1100	65	40	15	63
●FCB 90 L	K 4 D	40	30	0.00078	1100	65	40	15	63
FCB 100 L	K 5	40	45	0.00104	900	75	45	20	64
●FCB 100 L	K 6	60	50	0.00135	900	180	85	25	65
FCB 112 MT	K 5	40	45	0.00104	880	75	45	20	65
FCB 112 M	K 6	60	50	0.00135	880	180	85	25	65
FCB 132 S	K 7	90	55	0.00219	480	200	95	50	71
●FCB 132 S	K 7 D	180	55	0.00438	480	200	95	50	71
FCB 132 M	K 7	90	55	0.00219	450	200	95	50	71
●FCB 132 M	K 7 D	180	55	0.00438	480	200	95	50	71
FCB 160 MT	K 7 D	180	55	0.00438	350	200	95	50	75
FCB 160 L	K 8	200	60	0.00408	350	210	100	60	75
● FCB 160 L	K 8 D	400	60	0.00816	350	210	100	60	75

● Motor with increased braking torque on request

★ On request, delayed brake cut in time for lifting equipments. We suggest double disk brake D for lifting equipments.

Technical Features

6 poles-1000rpm-50Hz

Brake motors have a $\pm 6\%$ tolerance on the supply voltage

Model	Power (KW)	Speed (r/min)	Eff. (%)	Power Factor (CosΦ)	Current (A)			T _{st} /T _n (Times)	T _{max} /T _n (Times)	T _{min} /T _n (Times)	I _{st} /I _n (Times)	Noise dB(A)
					230V	400V	690V					
FCB63A-6	0.09	840	42	0.61	0.88	0.51	0.29	2	2	1.5	3.5	50
FCB63B-6	0.12	850	45	0.62	1.08	0.62	0.36	2	2	1.5	3.5	50
FCB71A-6	0.18	880	56	0.66	1.22	0.70	0.41	1.6	1.7	1.5	4	52
FCB71B-6	0.25	900	59	0.7	1.51	0.87	0.50	2.1	2.2	1.5	4	52
FCB71C-6	0.37	890	61	0.69	2.2	1.27	0.73	2	2.1	1.5	4	54
FCB80A-6	0.37	900	62	0.7	2.13	1.23	0.71	1.9	1.9	1.5	4	56
FCB80B-6	0.55	900	67	0.72	2.85	1.65	0.95	2	2.3	1.5	4	56
FCB80C-6	0.75	900	68	0.72	3.83	2.21	1.28	2	2.3	1.5	4	58
FCB90S-6	0.75	920	69	0.72	3.77	2.18	1.26	2.2	2.2	1.5	5.5	59
FCB90L-6	1.1	925	72	0.73	5.23	3.02	1.74	2.2	2.2	1.3	5.5	59
FCB100L-6	1.5	945	74	0.76	6.67	3.85	2.22	2.2	2.2	1.3	6	61
FCB112M-6	2.2	955	78	0.76	9.28	5.36	3.09	2.2	2.2	1.3	6	64
FCB132S-6	3	960	79	0.76	12.49	7.21	4.16	2	2	1.3	6.5	64
FCB132MA-6	4	960	80.5	0.76	16.35	9.44	5.45	2	2	1.3	6.5	68
FCB132MB-6	5.5	960	83	0.77	21.51	12.42	7.17	2	2	1.3	6.5	68
FCB132L-6	7.5	960	85	0.77	28.65	16.54	9.55	2	2	1.3	6.5	68
FCB160M-6	7.5	960	86	0.8	27.25	15.73	9.08	2	2.2	1.3	6.5	68
FCB160L-6	11	960	87.5	0.79	39.78	22.97	13.26	2	2.2	1.2	6.5	73

Type	Brake Type K	Brake Torque Nm	Brake Rated Power W	J Brake Pd ² Kgm ²	No.of Starts/hr. Under No Load	Delayed Cut-in Time ★ Msec.	Quick Cut-in Time Msec.	Cut Out Time Msec.	Noise dB(A)
FCB 63	K 1	5	15	0.00005	3000	45	20	10	50
FCB 71	K 2	12	20	0.00014	3000	50	30	15	52
FCB 80	K 3	16	25	0.00021	1300	55	30	15	56
FCB 90S	K 4	20	30	0.00039	1100	65	40	15	59
●FCB90S	K 4 D	40	30	0.00078	1100	65	40	15	59
FCB 90 L	K 4	20	30	0.00039	1100	65	40	15	59
●FCB 90 L	K 4 D	40	30	0.00078	1100	65	40	15	59
FCB 100 L	K 5	40	45	0.00104	900	75	45	20	61
●FCB 100 L	K 6	60	50	0.00135	900	180	85	25	61
FCB 112 MT	K 5	40	45	0.00104	880	75	45	20	64
FCB 112 M	K 6	60	50	0.00135	880	180	85	25	64
FCB 132 S	K 7	90	55	0.00219	480	200	95	50	64
●FCB 132 S	K 7 D	180	55	0.00438	480	200	95	50	64
FCB 132 M	K 7	90	55	0.00219	450	200	95	50	68
●FCB 132 M	K 7 D	180	55	0.00438	480	200	95	50	68
FCB 160 MT	K 7 D	180	55	0.00438	350	200	95	50	68
FCB 160 L	K 8	200	60	0.00408	350	210	100	60	73
●FCB 160 L	K 8 D	400	60	0.00816	350	210	100	60	73

● Motor with increased braking torque on request

★ On request, delayed brake cut in time for lifting equipments. We suggest double disk brake D for lifting equipments.

Technical Features

8 poles-750rpm-50Hz

Brake motors have a $\pm 6\%$ tolerance on the supply voltage

Model	Power (KW)	Speed (r/min)	Eff. (%)	Power Factor (Cos Φ)	Current (A)			T _{st} /T _n (Times)	T _{max} /T _n (Times)	T _{min} /T _n (Times)	I _{st} /I _n (Times)	Noise dB(A)
					230V	400V	690V					
FCB71A-8	0.09	680	48	0.56	0.84	0.48	0.28	1.5	1.7	1.3	3	50
FCB71B-8	0.12	690	51	0.59	1.00	0.58	0.33	1.6	1.7	1.3	2.7	50
FCB80A-8	0.18	680	51	0.61	1.45	0.84	0.48	1.5	1.7	1.3	2.8	52
FCB80B-8	0.25	680	56	0.61	1.83	1.06	0.61	1.6	2	1.3	2.7	52
FCB90S-8	0.37	680	63	0.63	2.33	1.35	0.78	1.6	1.8	1.3	2.8	56
FCB90L-8	0.55	680	66	0.65	3.21	1.85	1.07	1.6	1.8	1.3	3	56
FCB100LA-8	0.75	710	66	0.67	4.24	2.45	1.41	1.7	2.1	1.3	3.5	59
FCB100LB-8	1.1	710	72	0.69	5.54	3.20	1.85	1.7	2.1	1.2	3.5	59
FCB112M-8	1.5	710	74	0.68	7.45	4.30	2.48	1.8	2.1	1.2	4.2	61
FCB132S-8	2.2	720	75	0.71	10.33	5.96	3.44	2	2	1.2	5.5	64
FCB132M-8	3	720	77	0.73	13.34	7.70	4.45	2	2	1.2	5.5	64
FCB160MA-8	4	730	80	0.73	17.12	9.89	5.71	1.9	2.1	1.2	6	68
FCB160MB-8	5.5	720	83.5	0.74	22.25	12.85	7.42	2	2.2	1.2	6	68
FCB160L-8	7.5	720	85	0.75	29.41	17.0	9.8	1.9	2.2	1.2	6	68

Type	Brake Type K	Brake Torque Nm	Brake Rated Power W	J Brake Pd ² Kg m ²	No. of Starts/hr. Under No Load	Delayed Cut-in Time ★ Msec.	Quick Cut-in Time Msec.	Cut Out Time Msec.	Noise dB(A)
63 FCB	K 1	5	15	0.00005	3000	45	20	10	50
71 FCB	K 2	12	20	0.00014	3000	50	30	15	50
80 FCB	K 3	16	25	0.00021	1300	55	30	15	52
90 S FCB	K 4	20	30	0.00039	1100	65	40	15	56
● 90 S FCB	K 4 D	40	30	0.00078	1100	65	40	15	56
90 L FCB	K 4	20	30	0.00039	1100	65	40	15	56
● 90 L FCB	K 4 D	40	30	0.00078	1100	65	40	15	56
100 L FCB	K 5	40	45	0.00104	900	75	45	20	59
● 100 L FCB	K 6	60	50	0.00135	900	180	85	25	59
112 MT FCB	K 5	40	45	0.00104	880	75	45	20	61
112 M FCB	K 6	60	50	0.00135	880	180	85	25	61
132 S FCB	K 7	90	55	0.00219	480	200	95	50	64
● 132 S FCB	K 7 D	180	55	0.00438	480	200	95	50	64
132 M FCB	K 7	90	55	0.00219	450	200	95	50	64
● 132 M FCB	K 7 D	180	55	0.00438	480	200	95	50	64
160 MT FCB	K 7 D	180	55	0.00438	350	200	95	50	68
160 L FCB	K 8	200	60	0.00408	350	210	100	60	68
● 160 L FCB	K 8 D	400	60	0.00816	350	210	100	60	68

● Motor with increased braking torque on request

★ On request, delayed brake cut in time for lifting equipments. We suggest double disk brake D for lifting equipments.

FCB/FCBS Series Brake Motors

Operating Principle

The direct current brake is fed by means of an electronic circuit with diode bridge (rectifier) situated inside the terminal-box. When feeding the electromagnet (5), the movable anchor (4) is attracted towards the same, thus loading the braking torque springs (9) and allowing the disk (2), equipped with friction packing and fitted on the groove hub (6) to turn solitary the motor shaft (1) by means of a key (7). By interrupting the feeding, the movable anchor (4), pushed by the braking torque springs (9), exerts a pressure upon the friction surface of the disk (2), thus causing its stopping.

Adjustment Of The Air Gap

The air gap (11) is the distance between the electromagnet (5) and the movable anchor (9).

The air gap has to be regularly checked, since due to the wear of the friction packing (2) it tends to increase.

Act on the brake adjusters (3) after having unloosen the screws (8) to bring the air gap to the required value.

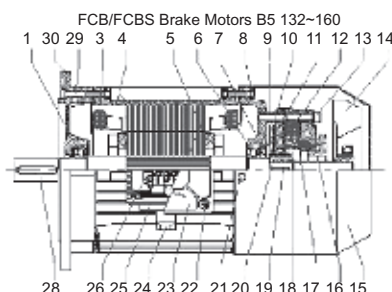
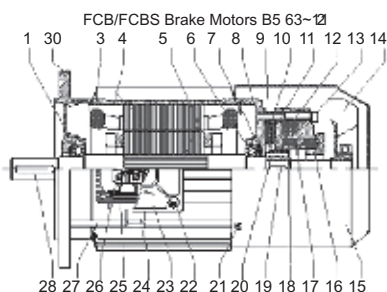
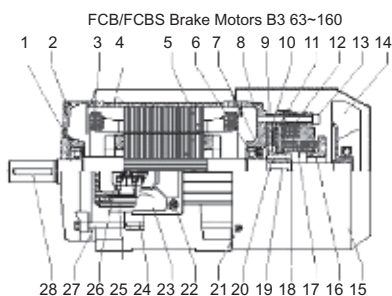
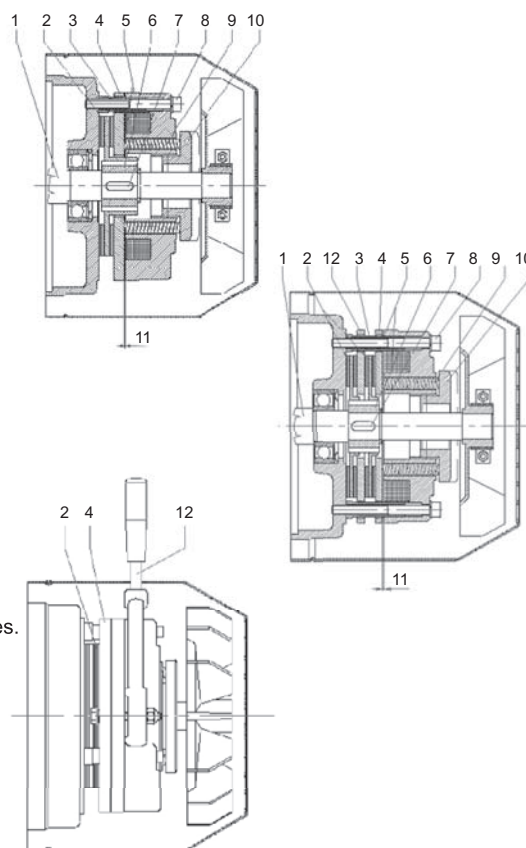
Act on the ring nut (10) which acts on the braking torque springs (9) to adjust the braking torque.

Pls. contact our technical department for information on the air gap adjustment values.

Hand Release With Lever

Upon request a hand release with lever can be supplied.

In case of a current cutoff, acting on the lever (12), the release, connected to the movable anchor (4) overcomes the springs pressure, thus detaching the movable anchor from the disc friction packing (2) allowing the shaft to turn.



Spare Parts

1. Front bearing
2. Front shield
3. Winding
4. Frame with stator package
5. Shaft with rotor
6. Rear bearing
7. Spring
8. Rear shield
9. Adjusting bush
10. Brake disc
11. Moving anchor
12. Electromagnet coil with diode
13. Fixing screws for brake
14. Cooling fan
15. Fan hood
16. Ring nut
17. Spring
18. See gearing
19. Key brake side
20. Toothed pinion
21. Fixing screw for fan hood
22. Fixing crew for terminal-box
23. Terminal-box
24. Able-holder
25. Packing
26. Terminal-block
27. Tie-bolt
28. Coupling side key
29. Fixing screw for shield
30. Flange shield



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