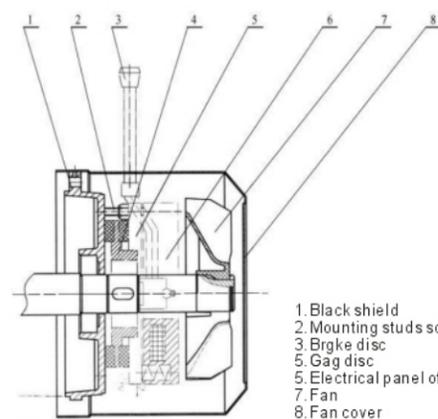
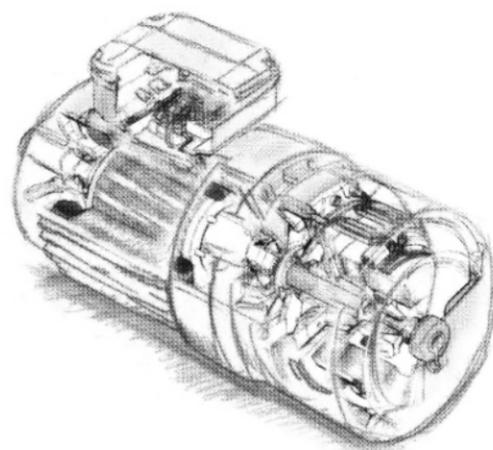


# ELECTROMAGNETIC BRAKE MOTORS WITH SQUIRREL CAGE ROTOR DIRECT CURRENT BRAKE

ALUMINUM HOUSING / ASYNCHRONOUS THREE-PHASE

# MSEJ



1. Black shield
2. Mounting studs screws
3. Brake disc
4. Gag disc
5. Electrical panel of brake device
7. Fan
8. Fan cover

Black device structure drawing

The brake-motors of the MSEJ 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.

# MSEJ Electromagnetic Brake Three-Phase Asynchronous Motors

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Technical data Brake motors have a ± 6% tolerance on voltage supply

Model	Rated Output kW	Speed rpm	Eff η %	Power factor COS φ	Current A			Ts/Tn Times	Tmax/Tn Times	Tmb/Tn Times	Ist/In Times	Noise dB A
					230V	400V	690V					
<b>3000rpm, 2-pole, 50Hz</b>												
MSEJ631-2	0.18	2710	63	0.75	0.95	0.55	0.32	2.2	2.4	1.6	6	61
MSEJ632-2	0.25	2710	65	0.78	1.23	0.71	0.41	2.2	2.4	1.6	6	61
MSEJ633-2	0.37	2710	65	0.78	1.82	1.05	0.61	2.2	2.4	1.6	6	62
MSEJ711-2	0.37	2730	70	0.79	1.67	0.97	0.56	2.2	2.4	1.6	6	64
MSEJ712-2	0.55	2760	71	0.79	2.45	1.42	0.82	2.2	2.4	1.6	6	64
MSEJ713-2	0.75	2730	72	0.82	3.18	1.83	1.03	2.2	2.4	1.5	6	65
MSEJ801-2	0.75	2770	73	0.84	3.06	1.77	1.02	2.2	2.4	1.5	6	67
MSEJ802-2	1.1	2770	76.2	0.83	4.35	2.51	1.45	2.2	2.4	1.5	6	67
MSEJ803-2	1.5	2800	78.5	0.83	5.87	3.32	1.92	2.2	2.4	1.5	6	70
MSEJ90S-2	1.5	2840	78.5	0.84	5.76	3.28	1.90	2.2	2.4	1.5	6	72
MSEJ90L1-2	2.2	2840	81	0.85	8.0	4.61	2.66	2.2	2.4	1.4	6	72
MSEJ90L2-2	3	2840	82.6	0.86	10.56	6.10	3.52	2.2	2.4	1.4	6	74
MSEJ100L1-2	3	2840	82.6	0.87	10.44	6.03	3.48	2.2	2.3	1.4	7	76
MSEJ100L2-2	4	2850	84.2	0.87	13.65	7.88	4.55	2.2	2.3	1.4	7.5	77
MSEJ112M-2	4	2880	84.2	0.87	13.65	7.88	4.55	2.2	2.3	1.4	7.5	77
MSEJ112L-2	5.5	2880	85.7	0.88	18.23	10.53	6.08	2.2	2.3	1.2	7.5	78
MSEJ132S1-2	5.5	2900	85.7	0.88	18.23	10.53	6.08	2	2.2	1.2	7.5	80
MSEJ132S2-2	7.5	2920	87	0.88	24.49	14.14	8.16	2	2.2	1.2	7.5	80
MSEJ132M1-2	9.2	2930	88	0.89	29.87	17.25	9.96	2	2.2	1.2	7.5	81
MSEJ132M2-2	11	2930	88.4	0.9	34.57	19.96	11.52	2	2.2	1.2	7.5	83
MSEJ160M1-2	11	2940	88.4	0.9	34.57	19.96	11.52	2	2.2	1.2	7.5	86
MSEJ160M2-2	15	2940	89.4	0.91	46.09	26.61	15.36	2	2.2	1.2	7.5	86
MSEJ160L-2	18.5	2940	90	0.91	56.47	32.6	18.82	2	2.2	1.1	7.5	86

Model	Brake Type	Brake Torque Nm	Brake Rated Power W	J Brake Pd <sup>2</sup> Kgm <sup>2</sup>	No.of Starts/hr. Under No Load	Delayed Cut-In Time ★ Msec.	Quick Cut-In Time Msec.	Cut Out Time Msec.	Noise dB A
<b>3000rpm, 2-pole, 50Hz</b>									
MSEJ63	K1	5	15	0.00005	3000	45	20	10	62
MSEJ71	K2	12	20	0.00014	3000	50	30	15	64
MSEJ80	K3	16	25	0.00021	1300	55	30	15	67
MSEJ90S	K4	20	30	0.00039	1100	65	40	15	72
MSEJ90S	K4D	40	30	0.00078	1100	65	40	15	72
MSEJ90L	K4	20	30	0.00039	1100	65	40	15	72
MSEJ90L	K4D	40	30	0.00078	1100	65	40	15	72
MSEJ100L	K5	40	45	0.00104	900	75	45	20	76
MSEJ100L	K6	60	50	0.00135	900	180	85	25	76
MSEJ112MT	K5	40	45	0.00104	880	75	45	20	77
MSEJ112M	K6	60	50	0.00135	880	180	85	25	78
MSEJ132S	K7	90	55	0.00219	480	200	95	50	80
MSEJ132S	K7D	180	55	0.00438	480	200	95	50	80
MSEJ132M	K7	90	55	0.00219	450	200	95	50	80
MSEJ132M	K7D	180	55	0.00438	480	200	95	50	80
MSEJ160MT	K7D	180	55	0.00438	350	200	95	50	86
MSEJ160L	K8	200	60	0.00408	350	210	100	60	86
MSEJ160L	K8D	400	60	0.00816	350	210	100	60	86

● Motor with increased braking torque on request.

★ On request, delayed brake cutting time for lifting equipments. We suggest double disk brake for lifting equipments.

■ Indicates motors of small frame size with high power.

# MSEJ

## Electromagnetic Brake Three-Phase Asynchronous Motors

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**Technical data** Brake motors have a ± 6% tolerance on voltage supply

Model	Rated Output kW	Speed rpm	Eff η	Power factor COSφ	Current A			Ts/Tn Times	Tmax/Tn Times	Tmx/Tn Times	Ist/In Times	Noise dB A
					230V	400V	690V					
<b>1500rpm,4-pole,50Hz</b>												
MSEJ631-4	0.12	1350	57	0.64	0.82	0.47	0.27	2.2	2.4	1.7	6	52
MSEJ632-4	0.18	1350	59	0.65	1.17	0.68	0.39	2.2	2.4	1.7	6	52
■ MSEJ633-4	0.25	1350	60	0.66	1.58	0.91	0.53	2.2	2.4	1.7	6	54
MSEJ711-4	0.25	1350	60	0.72	1.45	0.84	0.48	2.2	2.4	1.7	6	55
MSEJ712-4	0.37	1370	65	0.74	1.92	1.11	0.64	2.2	2.4	1.7	6	55
■ MSEJ713-4	0.55	1380	66	0.75	2.78	1.60	0.93	2.2	2.4	1.7	6	57
MSEJ801-4	0.55	1370	67	0.75	2.74	1.58	0.91	2.2	2.4	1.7	6	58
MSEJ802-4	0.75	1380	72	0.78	3.34	1.93	1.11	2.2	2.4	1.6	6	58
■ MSEJ803-4	1.1	1390	76.2	0.78	4.63	2.67	1.54	2.2	2.4	1.6	6	60
MSEJ90S-4	1.1	1400	76.2	0.79	4.57	2.64	1.52	2.2	2.4	1.6	6	61
MSEJ90L-4	1.5	1400	78.5	0.8	5.97	3.45	1.99	2.2	2.4	1.6	6	61
■ MSEJ90L2-4	2.2	1400	81	0.8	8.45	4.90	2.83	2.2	2.4	1.5	7	63
MSEJ100L1-4	2.2	1420	81	0.81	8.38	4.84	2.79	2.2	2.3	1.5	7	64
MSEJ100L2-4	3	1420	82.6	0.81	11.21	6.47	3.74	2.2	2.3	1.5	7	64
■ MSEJ100L3-4	4	1430	84.2	0.82	14.18	8.36	4.83	2.2	2.3	1.5	7	65
MSEJ112M-4	4	1430	84.2	0.83	14.31	8.26	4.77	2.2	2.2	1.5	7	65
■ MSEJ112L-4	5.5	1440	85.7	0.83	19.33	11.16	6.44	2.2	2.2	1.4	7	68
MSEJ132S-4	5.5	1450	85.7	0.84	19.1	11.03	6.37	2.2	2.2	1.4	7	71
MSEJ132M-4	7.5	1450	87	0.85	25.35	14.64	8.45	2.2	2.2	1.4	7	71
■ MSEJ132L1-4	9.2	1460	87.5	0.85	30.92	17.85	10.31	2.2	2.2	1.4	7.5	74
■ MSEJ132L2-4	10	1460	88	0.85	33.42	19.3	11.14	2.2	2.2	1.4	7.5	74
■ MSEJ132L2-4	11	1460	88.4	0.86	36.17	20.88	12.06	2.2	2.2	1.4	7.5	74
MSEJ160M-4	11	1460	88.4	0.87	35.76	20.64	11.92	2.2	2.2	1.4	7	75
MSEJ160L-4	15	1460	88.4	0.87	48.76	28.15	16.25	2.2	2.2	1.4	7.5	75

Model	Brake Type K	Brake Torque Nm	Brake Rated Power W	J Brake Pd <sup>2</sup> Kgm <sup>2</sup>	No.of Starts/hr. Under No Load	Delayed Cut-In Time ★ Msec.	Quick Cut-In Time Msec.	Cut Out Time Msec.	Noise dB A
MSEJ63	K1	5	15	0.00005	3000	45	20	10	52
MSEJ71	K2	12	20	0.00014	3000	50	30	15	55
MSEJ80	K3	16	25	0.00021	1300	55	30	15	58
MSEJ90S	K4	20	30	0.00039	1100	65	40	15	61
● MSEJ90S	K4D	40	30	0.00078	1100	65	40	15	61
MSEJ90L	K4	20	30	0.00039	1100	65	40	15	63
● MSEJ90L	K4D	40	30	0.00078	1100	65	40	15	63
MSEJ100L	K5	40	45	0.00104	900	75	45	20	64
● MSEJ100L	K6	60	50	0.00135	900	180	85	25	65
MSEJ112MT	K5	40	45	0.00104	880	75	45	20	65
MSEJ112M	K6	60	50	0.00135	880	180	85	25	65
MSEJ132S	K7	90	55	0.00219	480	200	95	50	71
● MSEJ132S	K7D	180	55	0.00438	480	200	95	50	71
MSEJ132M	K7	90	55	0.00219	450	200	95	50	71
● MSEJ132M	K7D	180	55	0.00438	480	200	95	50	71
MSEJ160MT	K7D	180	55	0.00438	350	200	95	50	75
MSEJ160L	K8	200	60	0.00408	350	210	100	60	75
● MSEJ160L	K8D	400	60	0.00816	350	210	100	60	75

- Motor with increased braking torque on request.
- ★ On request, delayed brake cutting time for lifting equipments. We suggest double disk brake for lifting equipments.
- Indicates motors of small frame size with high power.

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**Technical data** Brake motors have a ± 6% tolerance on voltage supply

Model	Rated Output kW	Speed rpm	Eff η	Power factor COSφ	Current A			Ts/Tn Times	Tmax/Tn Times	Tmx/Tn Times	Ist/In Times	Noise dB A
					230V	400V	690V					
<b>3000rpm,2-pole,50Hz</b>												
MSEJ631-6	0.09	810	42	0.61	0.88	0.51	0.29	2	2	1.5	3.5	50
MSEJ632-6	0.12	850	45	0.62	1.08	0.62	0.36	2	2	1.5	3.5	50
MSEJ711-6	0.18	880	56	0.66	1.22	0.70	0.41	1.6	1.7	1.5	4	52
MSEJ712-6	0.25	900	59	0.7	1.51	0.87	0.50	2.1	2.2	1.5	4	52
■ MSEJ713-6	0.37	890	61	0.69	2.2	1.27	0.73	2	2.1	1.5	4	54
MSEJ801-6	0.37	900	62	0.7	2.13	1.23	0.71	1.9	1.9	1.5	4	56
MSEJ802-6	0.55	900	67	0.72	2.85	1.65	0.95	2	2.3	1.5	4	56
■ MSEJ803-6	0.75	900	68	0.72	3.83	2.21	1.28	2	2.3	1.5	4	58
MSEJ90S-6	0.75	920	69	0.72	3.77	2.18	1.26	2.2	2.2	1.5	5.5	59
MSEJ90L-6	1.1	925	72	0.73	5.23	3.02	1.74	2.2	2.2	1.3	5.5	59
■ MSEJ100L-6	1.5	945	74	0.76	6.67	3.85	2.22	2.2	2.2	1.3	6	61
MSEJ112M-6	2.2	955	78	0.76	9.28	5.36	3.09	2.2	2.2	1.3	6	64
MSEJ132S-6	3	960	79	0.76	12.49	7.21	4.16	2	2	1.3	6.5	64
MSEJ132M1-6	4	960	80.5	0.76	16.35	9.44	5.45	2	2	1.3	6.5	68
MSEJ132M2-6	5.5	960	83	0.77	21.51	12.42	7.17	2	2	1.3	6.5	68
■ MSEJ132L-6	7.5	960	85	0.77	28.65	16.54	9.55	2	2	1.3	6.5	68
MSEJ160M-6	7.5	960	86	0.8	27.25	15.73	9.08	2	2.2	1.3	6.5	68
MSEJ160L-6	11	960	87.5	0.79	39.78	22.97	13.26	2	2.2	1.2	6.5	73

Model	Brake Type K	Brake Torque Nm	Brake Rated Power W	J Brake Pd <sup>2</sup> Kgm <sup>2</sup>	No.of Starts/hr. Under No Load	Delayed Cut-In Time ★ Msec.	Quick Cut-In Time Msec.	Cut Out Time Msec.	Noise dB A
MSEJ63	K1	5	15	0.00005	3000	45	20	10	50
MSEJ71	K2	12	20	0.00014	3000	50	30	15	52
MSEJ80	K3	16	25	0.00021	1300	55	30	15	56
MSEJ90S	K4	20	30	0.00039	1100	65	40	15	59
● MSEJ90S	K4D	40	30	0.00078	1100	65	40	15	59
MSEJ90L	K4	20	30	0.00039	1100	65	40	15	59
● MSEJ90L	K4D	40	30	0.00078	1100	65	40	15	59
MSEJ100L	K5	40	45	0.00104	900	75	45	20	61
● MSEJ100L	K6	60	50	0.00135	900	180	85	25	61
MSEJ112MT	K5	40	45	0.00104	880	75	45	20	64
MSEJ112M	K6	60	50	0.00135	880	180	85	25	64
MSEJ132S	K7	90	55	0.00219	480	200	95	50	64
● MSEJ132S	K7D	180	55	0.00438	480	200	95	50	64
MSEJ132M	K7	90	55	0.00219	450	200	95	50	68
● MSEJ132M	K7D	180	55	0.00438	480	200	95	50	68
MSEJ160MT	K7D	180	55	0.00438	350	200	95	50	68
MSEJ160L	K8	200	60	0.00408	350	210	100	60	73
● MSEJ160L	K8D	400	60	0.00816	350	210	100	60	73

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