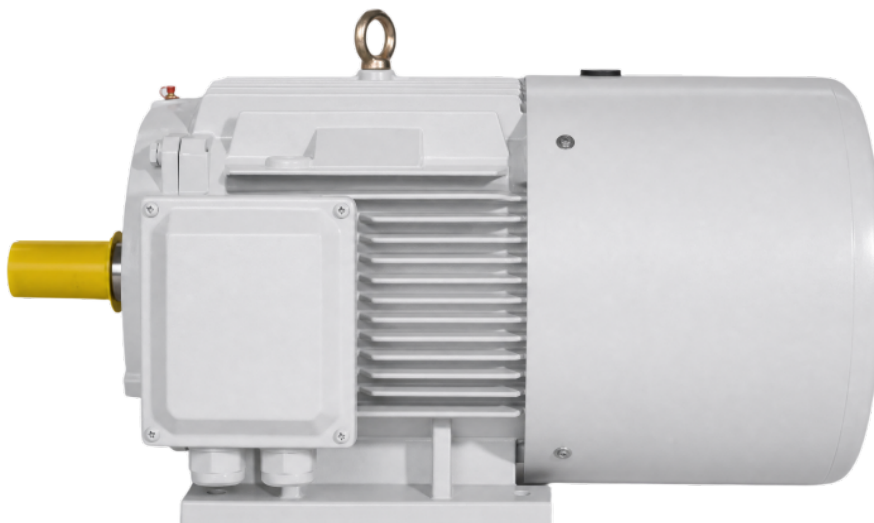


SPECIAL PURPOSE SERIES

YEJ

YEJ SERIES ELECTROMAGNETIC BRAKE THREE-PHASE INDUCTION MOTOR

Induction motor with an integral electromagnetic brake that applies on loss of supply, for rapid stopping and accurate positioning.

**0.18-90** kW

RATED OUTPUT

H80-H280FRAME CENTRE
HEIGHT**S3**

DUTY TYPE

2-8

POLES

SERIES

YEJ

REVISION

A01

ISSUE

September 2026

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DESCRIPTION

The YEJ series is small, simple in construction and widely interchangeable. Noise is low and braking is dependable. It suits any machinery that has to stop quickly, position accurately, reverse repeatedly, or be prevented from coasting.

The brake applies as soon as the motor loses supply. The series can be built to a customer's requirement — voltage, frequency and degree of protection among others.

TECHNICAL SPECIFICATION

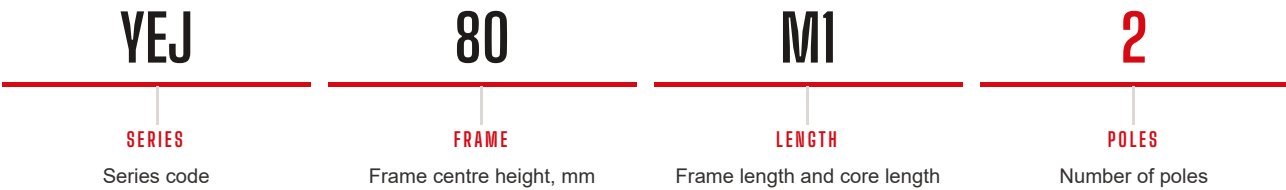
Braking	Electromagnetic brake, applied on loss of supply
Poles	2, 4, 6 and 8
Altitude	Not exceeding 1,000 m (3,280 ft)
Ambient temperature	−15 °C to +40 °C (5 °F to 104 °F)
Duty type	S1, continuous duty
Mounting arrangements	IM B3 (foot), IM B5 (flange), IM B35 (foot and flange)

STANDARDS

JB/T 6456-2022	Electromagnetic brake three-phase induction motors
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MODEL DESIGNATION

The type designation is formed as follows, shown for YEJ-80M1-2.



TYPICAL APPLICATIONS

- Wind turbine yaw braking
- Metal-cutting machine tools
- Packaging
- Woodworking
- Chemical industry
- Textiles
- Construction machinery

NOTES

NOT EXPLOSION PROTECTED

This series carries no explosion-protection marking and must not be used in a hazardous area.

RATED DATA

Values are for 50 Hz operation at the rated voltage stated above. Ratings are continuous (duty type S1).

SYNCHRONOUS SPEED 3000 R/MIN

TYPE	RATED OUTPUT kW	SPEED r/min	CURRENT A	EFF H(%)	COSΦ	LOCKED-ROTOR CURRENT I_A/I_N	LOCKED-ROTOR TORQUE T_A/T_N	MAX. TORQUE T_{max}/T_N
YEJ80M1-2	0.75	2845	1.80	77.4	0.82	6.8	2.3	2.3
YEJ80M2-2	1.1	2845	2.53	79.6	0.83	7.1	2.3	2.3
YEJ90S-2	1.5	2850	3.34	81.3	0.84	7.3	2.3	2.3
YEJ90L-2	2.2	2850	4.73	83.2	0.85	7.6	2.3	2.3
YEJ100L-2	3	2865	6.19	84.6	0.87	7.8	2.2	2.3
YEJ112M-2	4	2885	8.05	85.8	0.88	8.1	2.2	2.3
YEJ132S1-2	5.5	2905	10.9	87.0	0.88	8.2	2.2	2.3
YEJ132S2-2	7.5	2905	14.5	88.1	0.89	7.8	2.2	2.3
YEJ160M1-2	11	2935	21.0	89.4	0.89	7.9	2.2	2.3
YEJ160M1-2(15kW)	15	2935	28.4	90.3	0.89	7.9	2.2	2.3
YEJ160L-2	18.5	2935	34.7	90.9	0.89	8.0	2.2	2.3
YEJ180M-2	22	2940	42.2	89.0	0.89	8.1	2.2	2.3
YEJ200L1-2	30	2950	55.7	92.0	0.89	7.5	2.0	2.3
YEJ200L2-2	37	2950	68.3	92.5	0.89	7.5	2.0	2.3
YEJ225M-2	45	2960	82.7	92.9	0.89	7.5	2.2	2.3
YEJ250M-2	55	2965	101	93.2	0.89	7.6	2.2	2.3
YEJ280S-2	75	2970	137	93.8	0.89	6.9	1.8	2.3
YEJ280M-2	90	2970	163	94.1	0.89	6.9	1.8	2.3

4 POLES — SYNCHRONOUS SPEED 1500 R/MIN, 50 HZ

TYPE	RATED OUTPUT kW	SPEED r/min	CURRENT A	EFF H(%)	COSΦ	LOCKED-ROTOR CURRENT I_A/I_N	LOCKED-ROTOR TORQUE T_A/T_N	MAX. TORQUE T_{max}/T_N
YEJ80M1-4	0.55	1390	1.45	77.1	0.75	6.4	2.4	2.3
YEJ80M2-4	0.75	1390	1.88	79.6	0.76	6.4	2.3	2.3
YEJ90S-4	1.1	1390	2.67	81.4	0.77	6.6	2.3	2.3
YEJ90L-4	1.5	1390	3.53	82.8	0.78	6.7	2.3	2.3
YEJ100L1-4	2.2	1415	4.96	84.3	0.80	7.3	2.3	2.3
YEJ100L2-4	3	1415	6.58	85.5	0.81	7.5	2.3	2.3
YEJ112M-4	4	1435	8.66	86.6	0.81	7.5	2.3	2.3
YEJ132S-4	5.5	1445	11.6	87.7	0.82	7.5	2.0	2.3
YEJ132M-4	7.5	1445	15.5	88.7	0.83	7.3	2.0	2.3
YEJ160M-4	11	1460	22.4	89.8	0.83	7.4	2.0	2.3
YEJ160L-4	15	1460	29.9	90.6	0.84	7.5	2.0	2.3
YEJ180M-4	18.5	1470	36.3	91.2	0.85	7.6	2.0	2.3
YEJ180L-4	22	1470	42.9	91.6	0.85	7.7	2.1	2.3
YEJ200L-4	30	1470	58.1	92.3	0.85	7.1	2.1	2.3
YEJ225S-4	37	1475	70.5	92.7	0.86	7.3	2.1	2.3
YEJ225M-4	45	1475	85.4	93.1	0.86	7.3	2.2	2.3
YEJ250M-4	55	1480	104	93.5	0.86	7.3	2.2	2.3
YEJ280S-4	75	1480	140	94.0	0.87	6.8	2.2	2.3
YEJ280M-4	90	1480	167	94.2	0.88	6.9	2.2	2.3

6 POLES — SYNCHRONOUS SPEED 1000 R/MIN, 50 HZ

TYPE	RATED OUTPUT kW	SPEED r/min	CURRENT A	EFF H(%)	COSΦ	LOCKED-ROTOR CURRENT I_A/I_N	LOCKED-ROTOR TORQUE T_A/T_N	MAX. TORQUE T_{max}/T_N
YEJ80M1-6	0.37	890	1.19	67.6	0.70	5.8	1.9	2.0
YEJ80M2-6	0.55	890	1.59	73.1	0.72	5.8	1.9	2.1
YEJ90S-6	0.75	910	2.11	75.9	0.71	5.8	2.0	2.1
YEJ90L-6	1.1	910	2.97	78.1	0.72	5.9	2.0	2.1
YEJ100L-6	1.5	925	3.97	79.8	0.72	5.9	2.0	2.1
YEJ112M-6	2.2	940	5.68	81.8	0.72	6.2	2.0	2.1
YEJ132S-6	3	965	7.60	83.3	0.72	6.4	2.0	2.1
YEJ132M1-6	4	965	9.71	84.6	0.74	6.6	2.0	2.1
YEJ132M2-6	5.5	965	13.0	86.0	0.75	6.8	2.0	2.1
YEJ160M-6	7.5	965	16.8	87.2	0.78	6.8	2.0	2.1
YEJ160L-6	11	965	23.9	88.7	0.79	6.9	2.0	2.1
YEJ180L-6	15	975	31.0	89.7	0.75	7.3	2.0	2.1
YEJ200L1-6	18.5	975	38.9	90.4	0.80	7.2	2.0	2.1
YEJ200L2-6	22	975	45.4	90.9	0.81	7.3	2.0	2.1

6 POLES — SYNCHRONOUS SPEED 1000 R/MIN, 50 HZ (CONTINUED)

TYPE	RATED OUTPUT kW	SPEED r/min	CURRENT A	EFF H(%)	COSΦ	LOCKED-ROTOR CURRENT I_A/I_N	LOCKED-ROTOR TORQUE T_A/T_N	MAX. TORQUE T_{max}/T_N
YEJ225M-6	30	980	60.6	91.7	0.82	6.8	2.0	2.1
YEJ250M-6	37	980	73.5	92.2	0.83	7.0	2.0	2.1
YEJ280S-6	45	985	85.9	92.7	0.86	7.2	2.0	2.0
YEJ280M-6	55	985	104	93.1	0.86	7.2	2.0	2.0

8 POLES — SYNCHRONOUS SPEED 750 R/MIN, 50 HZ

TYPE	RATED OUTPUT kW	SPEED r/min	CURRENT A	EFF H(%)	COSΦ	LOCKED-ROTOR CURRENT I_A/I_N	LOCKED-ROTOR TORQUE T_A/T_N	MAX. TORQUE T_{max}/T_N
YEJ90S-8	0.37	675	1.64	56.1	0.61	6.0	1.8	1.9
YEJ90L-8	0.55	675	2.22	61.7	0.61	5.8	1.8	2.0
YEJ100L1-8	0.75	685	2.57	66.2	0.67	6.1	1.8	2.0
YEJ100L2-8	1.1	685	3.42	70.8	0.69	6.1	1.8	2.0
YEJ112M-8	1.5	695	4.39	74.1	0.70	6.4	1.8	2.0
YEJ132S-8	2.2	705	6.07	77.6	0.71	6.4	1.8	2.0
YEJ132M-8	3	705	7.80	80.0	0.73	6.8	1.8	2.0
YEJ160M1-8	4	720	10.2	81.9	0.73	6.8	1.9	2.0
YEJ160M2-8	5.5	720	13.5	83.8	0.74	6.7	1.9	2.0
YEJ160L-8	7.5	720	17.8	85.3	0.75	6.4	1.8	2.0
YEJ180L-8	11	725	25.6	86.9	0.75	6.5	1.8	2.0
YEJ200L-8	15	730	34.1	88.0	0.76	6.6	1.8	2.0
YEJ225S-8	18.5	730	41.7	88.6	0.76	6.6	1.9	2.0
YEJ225M-8	22	730	48.1	89.1	0.78	6.6	1.9	2.0
YEJ250M-8	30	730	64.3	89.8	0.79	6.5	1.9	2.0
YEJ280S-8	37	735	77.7	91.5	0.79	6.5	1.9	2.0
YEJ280M-8	45	735	94.0	92.0	0.79	6.5	1.9	2.0

MOUNTING ARRANGEMENTS

The series is supplied in the following arrangements to IEC 60034-7. Letters on the drawings are the dimension symbols used in the outline and mounting dimension schedule.

ABOUT THESE DRAWINGS

The drawings show a representative frame for each arrangement and are not to scale. Dimensions for a specific frame size are given in the outline and mounting dimension schedule.

OUTLINE AND MOUNTING DIMENSIONS

The series is supplied in the IM B3 (foot), IM B5 (flange), IM B35 (foot and flange) mounting arrangements. The full outline and mounting dimension schedule for each frame — including flange details and tolerances — is issued on request and is not reproduced in this datasheet.

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