

NEMA STANDARD SERIES

NEMA JM / JP

NEMA STANDARD (JM, JP) PREMIUM EFFICIENCY CLOSE-COUPLED PUMP MOTOR

Single-speed totally enclosed fan-cooled induction motor to NEMA MG 1, built for close-coupled pump mounting with a JM or JP pump shaft.

**1-75** _{HP}

RATED OUTPUT

143-365

JM / JP FRAME

1.15/1.25

SERVICE FACTOR

IP54/55DEGREE OF
PROTECTION

SERIES

NEMA-JM-JP

REVISION

A01

ISSUE

September 2026

CONTENTS

DESCRIPTION	03
TECHNICAL SPECIFICATION	03
STANDARDS	03
MODEL DESIGNATION	03
TYPICAL APPLICATIONS	04
NOTES	04
RATED DATA	04
MOUNTING ARRANGEMENTS	06
OUTLINE AND MOUNTING DIMENSIONS	07
MANUFACTURER	07

DESCRIPTION

The series is designed specifically for close-coupled pump installation, with a rigid mounting frame and a NEMA JM or JP pump shaft. The whole range uses a cast iron enclosure, and the drive-end bearing is locked to limit axial float of the shaft.

Efficiency meets the American NEMA EPACT and NEMA Premium levels, with a service factor of 1.15 or 1.25. The series carries United States CC certification and Canadian CSA certification.

TECHNICAL SPECIFICATION

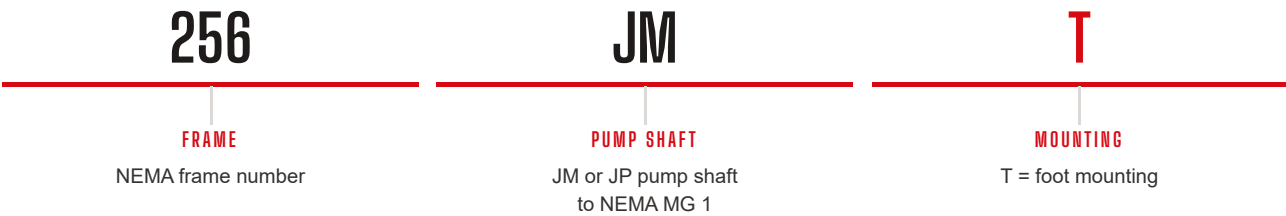
Insulation class	F
Altitude	Not exceeding 3,300 ft (1,000 m)
Ambient temperature	-15 °C to +40 °C (5 °F to 104 °F)
Duty type	Continuous
Mounting arrangements	T (foot), with JM or JP pump shaft

STANDARDS

NEMA MG 1	Three-phase induction motor, JM / JP pump shaft
NEMA Premium	Efficiency level; also meets NEMA EPACT
CSA	Class I, Div. 2, Groups A, B, C & D — T3C (140–320 Fr.), T3A (360 Fr.)

MODEL DESIGNATION

Frames follow the NEMA T-frame series of **NEMA MG 1**. A shaft-type suffix distinguishes the standard shaft from the short shaft, and a mounting suffix gives the mounting arrangement.



256JM = frame 256 with a JM pump shaft. Frames run 143JM (JP) to 365JM (JP).

READING A DESIGNATION

Motors are fixed at the non-drive end. Frame 250T and above are supplied with grease inlet and outlet fittings.

TYPICAL APPLICATIONS

- Close-coupled pumps
- Hazardous locations to the CSA rating above

NOTES

SERVICE FACTOR

1.15 and 1.25.

VOLTAGE

230/460 V, 460 V or 575 V at 60 Hz.

INVERTER DUTY

Speed range 10:1 constant torque, 20:1 variable torque.

FLANGE END SHIELDS

Except frame N250, the JM and JP flange end shields are the same as the C-face end shield; frames N140 to N360 differ.

RATED DATA

Values are for 60 Hz operation. Where the rated voltage is not 460 V or 575 V, full-load current is inversely proportional to the current shown for that voltage.

RATED OUTPUT BY FRAME AND SYNCHRONOUS SPEED

FRAME	3600 R/MIN	1800 R/MIN	1200 R/MIN
143	1.0HP/0.75kW	—	—
143	1.5HP/1.1kW	0.75kW	—
145	2.0HP/1.5kW	1.1kW	1.0HP/0.75kW
182	3.0HP/2.2kW	2.2kW	1.5HP/1.0kW
184	5.0HP/3.7kW	3.7kW	2.0HP/1.5kW
213	7.5HP/5.5kW	5.5kW	3.0HP/2.2kW
215	10HP/7.5kW	7.5kW	5.0HP/3.7kW
254	15HP/11kW	11kW	7.5HP/5.5kW
256	20HP/15kW	15kW	10HP/7.5kW
284	25HP/18.5kW	18.5kW	15HP/11kW

RATED OUTPUT BY FRAME AND SYNCHRONOUS SPEED (CONTINUED)

FRAME	3600 R/MIN	1800 R/MIN	1200 R/MIN
286	30HP/22kW	22kW	20HP/15kW
324	40HP/30kW	30kW	25HP/18.5kW
326	50HP/37kW	37kW	30HP/22kW
364	60HP/45kW	45kW	40HP/30kW
365	75HP/55kW	55kW	50HP/37kW

SYNCHRONOUS SPEED 3600 R/MIN · 60 HZ

FRAME	HP	RATED OUTPUT kW	SPEED r/min	CURRENT AT 460 V A	CONNECTION	CURRENT AT 575 V A	CONNECTION	POWER FACTOR cos φ	EFFICIENCY FL 100% %	EFFICIENCY FL 75% %	KVA code	LOCKED- ROTOR TORQUE %	MAXIMUM TORQUE %
143	1.0	0.75	3480	1.56	2Y/Y	1.25	Y	0.78	77.0	78.0	N	175	250
143	1.5	1.1	3490	2.09	2Y/Y	1.67	Y	0.80	84.0	84.5	M	175	250
145	2.0	1.5	3495	2.74	2Y/Y	2.19	Y	0.80	85.5	85.0	L	170	240
182	3	2.2	3490	3.82	2Y/Y	3.06	Y	0.85	86.5	87.0	K	160	230
184	5	3.7	3490	6.01	2Y/Y	4.81	Y	0.88	88.5	89.8	J	150	215
213	7.5	5.5	3505	9.45	2△/△	7.56	Y	0.83	89.5	89.7	H	140	200
215	10	7.5	3500	12.2	2△/△	9.77	Y	0.85	90.2	90.7	H	135	200
254	15	11	3540	17.5	2△/△	14.0	Y	0.88	91.0	91.5	G	130	200
256	20	15	3540	23.1	2△/△	18.5	Y	0.89	91.0	91.5	G	130	200
284	25	18.5	3550	29.3	2△/△	23.5	△	0.87	91.7	92.1	G	130	200
286TS	30	22	3550	34.8	2△/△	27.8	△	0.88	91.7	92.4	G	130	200
324	40	30	3545	46.1	2△/△	36.8	△	0.88	92.4	92.8	G	125	200
326	50	37	3545	56.6	2△/△	45.3	△	0.89	93.0	93.4	G	120	200
364	60	45	3560	70.6	2△/△	56.5	△	0.85	93.6	93.8	G	120	200
365	75	55	3560	88.3	2△/△	70.6	△	0.85	93.6	93.6	G	105	200

SYNCHRONOUS SPEED 1800 R/MIN · 60 HZ

FRAME	HP	RATED OUTPUT kW	SPEED r/min	CURRENT A	EFFICIENCY FL 100% %	EFFICIENCY FL 75% %
143	1.0	0.75	1755	1.63	85.5	84.5
143	1.5	1.1	1755	2.22	86.5	86.2
145	2	1.5	1755	2.97	86.5	86.4
182	3	2.2	1755	4.08	89.5	89.7
184	5	3.7	1755	6.3	89.5	90.0
213	7.5	5.5	1760	9.23	91.7	91.8
215	10	7.5	1760	12.2	91.7	91.8
254	15	11	1765	18.1	92.4	92.7
256	20	15	1765	23.7	93.0	93.2

SYNCHRONOUS SPEED 1800 R/MIN · 60 HZ (CONTINUED)

FRAME	HP	RATED OUTPUT kW	SPEED r/min	CURRENT A	EFFICIENCY FL 100% %	EFFICIENCY FL 75% %
284	25	18.5	1770	29.4	93.6	93.9
286	30	22	1770	35.3	93.6	93.9
324	40	30	1775	46.8	94.1	94.6
326	50	37	1775	57.6	94.5	94.9
364	60	45	1780	71.2	95.0	95.3
365	75	55	1780	88.7	95.4	95.5

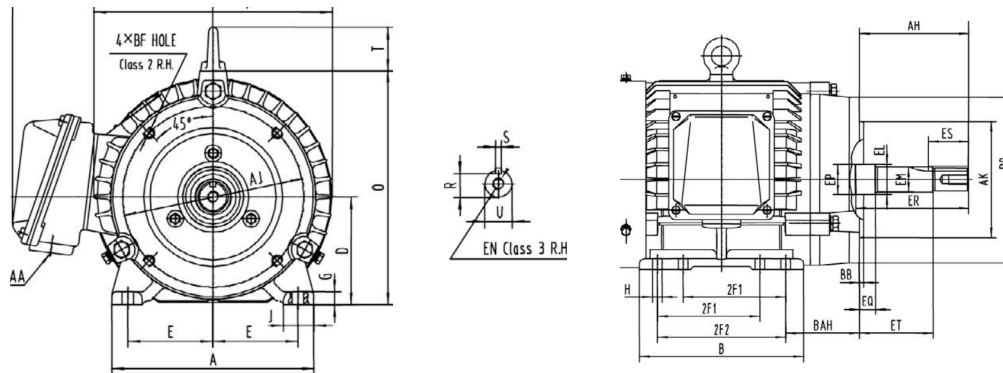
SYNCHRONOUS SPEED 1200 R/MIN · 60 HZ

FRAME	HP	RATED OUTPUT kW	SPEED r/min	CURRENT A	EFFICIENCY FL 100% %	EFFICIENCY FL 75% %
145	1.0	0.75	1160	1.75	82.5	82
182	1.5	1.1	1180	2.36	87.5	86.8
184	2	1.5	1175	2.98	88.5	88.3
213	3	2.2	1175	4.48	89.5	89.5
215	5	3.7	1175	7.27	89.5	89.6
254	7.5	5.5	1175	9.41	91.0	91.3
256	10	7.5	1185	12.5	91.0	91.2
284	15	11	1185	19.4	91.7	92.0
286	20	15	1185	25.5	91.7	92.1
324	25	18.5	1185	32.7	93.0	93.4
326	30	22	1185	38.7	93.0	93.3
364	40	30	1185	49.1	94.1	94.2
365	50	37	1185	60.7	94.1	94.3

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.

T FOOT MOUNTING, NEMA T-FRAME



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.

MANUFACTURER

CHINA HEADQUARTERS

SHANDONG LIJIU ELECTRICAL MACHINERY CO., LTD

No.22, Shanhai Road, Rushan City, Shandong, China

Email: info@leadgomotor.com

THAILAND FACILITY

LEADGO MOTOR TECHNOLOGY THAILAND CO LTD

Rojana Bowin 2 Industrial Estate, Si Racha,
Chonburi, Thailand

Email: info@leadgomotor.com

WEBSITE www.leadgomotor.com

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