

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JM
NEMA Premium Efficiency Three-Phase

Product code : 12588407

Catalog # : 04036ET3E324JM-W22

Frame : 324/6JM
Insulation class : F
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Design : B

Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Starting method : Direct On Line
Approx. weight² : 566 lb
Moment of inertia (J) : 4.90 sq.ft.lb

Output [HP]	40	30	30	30	40	40	40
Poles	2	2	2	2	2	2	2
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	208-230/460	380	400	415	380	400	415
Rated current [A]	101-91.6/45.8	40.5	38.5	37.5	56.3	53.1	51.1
L. R. Amperes [A]	638-577/289	263	281	289	270	287	296
LRC [A]	6.3x(Code G)	6.5x(Code G)	7.3x(Code H)	7.7x(Code H)	4.8x(Code D)	5.4x(Code E)	5.8x(Code F)
No load current [A]	19.0-22.0/11.0	10.8	11.8	12.5	10.8	11.8	12.5
Rated speed [RPM]	3555	2955	2965	2965	2940	2950	2955
Slip [%]	1.25	1.50	1.17	1.17	2.00	1.67	1.50
Rated torque [ft.lb]	58.3	52.6	52.4	52.4	70.5	70.2	70.1
Locked rotor torque [%]	229	240	270	290	180	200	220
Breakdown torque [%]	240	250	280	310	190	210	229
Service factor	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	80 K
Locked rotor time	39s (cold) 22s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	78.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)
Efficiency (%)	25%						
	50%	91.7	90.9	90.3	90.7	91.7	91.7
	75%	92.4	91.8	91.7	92.1	91.7	92.4
	100%	92.4	92.7	92.7	92.7	91.0	91.7
Power Factor	25%						
	50%	0.82	0.77	0.75	0.73	0.85	0.83
	75%	0.87	0.86	0.85	0.84	0.88	0.88
	100%	0.89	0.89	0.89	0.88	0.89	0.89

Bearing type : Drive end 6312 C3 Non drive end 6212 C3
Sealing : V'Ring V'Ring
Lubrication interval : 12000 h 15000 h
Lubricant amount : 21 g 13 g
Lubricant type : Mobil Polyrex EM

Foundation loads
Max. traction : 344 lb
Max. compression : 910 lb

Notes

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	22/01/2018			

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