

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JM Pump NEMA Premium Efficiency Three-Phase Product code : 14484572
Catalog # : 02512OT3E324JM-W40

Frame : 324JM	Cooling method : IC01 - ODP
Insulation class : F	Mounting : F-1
Duty cycle : Cont.(S1)	Rotation ¹ : Both (CW and CCW)
Ambient temperature : -20°C to +40°C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l.	Approx. weight ² : 515 lb
Protection degree : IP23	Moment of inertia (J) : 7.69 sq.ft.lb
Design : B	

Output [HP]	25	20	20	20
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	61.6/30.8	30.5	30.1	29.7
L. R. Amperes [A]	382/191	201	205	205
LRC [A]	6.2x(Code G)	6.6x(Code H)	6.8x(Code H)	6.9x(Code J)
No load current [A]	28.4/14.2	14.0	15.5	16.7
Rated speed [RPM]	1183	980	985	985
Slip [%]	1.42	2.00	1.50	1.50
Rated torque [ft.lb]	111	107	107	107
Locked rotor torque [%]	210	170	229	210
Breakdown torque [%]	250	250	290	310
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	32s (cold) 18s (hot)	23s (cold) 13s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level ²	62.0 dB(A)			
Efficiency (%)	25%	91.0	90.6	90.9
	50%	91.7	90.8	91.0
	75%	92.4	91.2	91.2
	100%	93.0	91.2	91.2
Power Factor	25%	0.39	0.39	0.35
	50%	0.65	0.65	0.60
	75%	0.76	0.76	0.73
	100%	0.81	0.82	0.79

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6312 Z C3	6211 Z C3	Max. traction
Sealing :	Without	Without	Max. compression
	Bearing Seal	Bearing Seal	
Lubrication interval :	20000 h	20000 h	
Lubricant amount :	21 g	11 g	
Lubricant type :	Mobil Polyrex EM		

Notes

USABLE @208V 68.1A SF 1.15 SFA 78.3A

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	11/04/2020			

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Revision