

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JM
NEMA Premium Efficiency Three-Phase
Product code : 12603093
Catalog # : 04018ET3E324JM-W22

Frame : 324/6JM	Cooling method : IC411 - TEFC
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 ^a : 590 lb
Protection degree : IP55	Moment of inertia (J) : 9.16 sq.ft.lb
Design : B	

Output [HP]	40	30	30	30	40	40	40
Poles	4	4	4	4	4	4	4
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	208-230/460	380	400	415	380	400	415
Rated current [A]	104-94.2/47.1	42.8	41.6	41.1	56.7	54.1	52.8
L. R. Amperes [A]	635-575/287	218	241	255	221	243	259
LRC [A]	6.1x(Code G)	5.1x(Code E)	5.8x(Code F)	6.2x(Code G)	3.9x(Code C)	4.5x(Code D)	4.9x(Code E)
No load current [A]	27.6-32.0/16.0	15.7	17.3	18.6	15.7	17.3	18.6
Rated speed [RPM]	1775	1475	1475	1475	1465	1470	1470
Slip [%]	1.39	1.67	1.67	1.67	2.33	2.00	2.00
Rated torque [ft.lb]	117	105	105	105	141	141	141
Locked rotor torque [%]	220	229	250	280	170	190	210
Breakdown torque [%]	240	250	290	310	180	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	36s (cold) 20s (hot)	25s (cold) 14s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	25s (cold) 14s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	66.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
Efficiency (%)	25%						
	50%	93.6	92.9	92.4	91.7	93.6	93.0
	75%	94.1	93.1	93.0	92.6	93.0	93.0
	100%	94.1	93.0	93.2	93.1	92.4	93.0
Power Factor	25%						
	50%	0.72	0.68	0.64	0.62	0.78	0.72
	75%	0.80	0.78	0.75	0.73	0.84	0.80
	100%	0.85	0.84	0.82	0.80	0.87	0.85

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6312 C3	6212 C3	Max. traction : 966 lb
Sealing :	V'Ring	V'Ring	Max. compression : 1556 lb
Lubrication interval :	20000 h	20000 h	
Lubricant amount :	21 g	13 g	
Lubricant type :	Mobil Polyrex EM		

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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