

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JM
NEMA Premium Efficiency Three-Phase
Product code : 12598765
Catalog # : 01512ET3E284JM-W22

Frame : 284/6JM	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 ² : 404 lb
Protection degree : IP55	Moment of inertia (J) : 7.85 sq.ft.lb
Design : B	

Output [HP]	15	10	10	10	15	15	15
Poles	6	6	6	6	6	6	6
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	208-230/460	380	400	415	380	400	415
Rated current [A]	39.6-35.8/17.9	15.5	15.1	14.9	22.0	20.9	20.2
L. R. Amperes [A]	253-229/115	112	119	124	103	111	115
LRC [A]	6.4x(Code G)	7.2x(Code J)	7.9x(Code K)	8.3x(Code K)	4.7x(Code E)	5.3x(Code F)	5.7x(Code F)
No load current [A]	12.9-15.0/7.50	7.30	7.75	8.12	7.40	7.90	8.30
Rated speed [RPM]	1175	985	985	985	965	970	975
Slip [%]	2.08	1.50	1.50	1.50	3.50	3.00	2.50
Rated torque [ft.lb]	66.1	52.6	52.6	52.6	80.5	80.1	79.7
Locked rotor torque [%]	229	270	300	330	170	200	220
Breakdown torque [%]	270	330	370	400	210	229	250
Service factor	1.25	1.25	1.25	1.25	1.00	1.15	1.15
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	36s (cold) 20s (hot)	61s (cold) 34s (hot)	54s (cold) 30s (hot)	52s (cold) 29s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	59.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%						
	50%	91.0	89.0	89.1	89.1	91.0	90.2
	75%	91.7	89.4	89.5	89.5	90.2	90.2
	100%	91.7	89.4	89.5	89.5	88.5	89.5
Power Factor	25%						
	50%	0.69	0.64	0.61	0.58	0.75	0.72
	75%	0.80	0.76	0.73	0.71	0.84	0.82
	100%	0.84	0.82	0.80	0.78	0.86	0.85

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6311 C3	6211 C3	Max. traction : 678 lb
Sealing :	V'Ring	V'Ring	Max. compression : 1083 lb
Lubrication interval :	20000 h	20000 h	
Lubricant amount :	18 g	11 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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Revision