

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JM
NEMA Premium Efficiency Three-Phase
Product code : 11641282
Catalog # : 03036ET3E286JM-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 : 409 lb
Protection degree : IP55	Moment of inertia (J) : 3.37 sq.ft.lb
Design : B	

Output [HP]	30	25	25	25	30	30	30
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]	74.7-67.6/33.8	34.2	32.5	31.3	42.0	39.6	37.8
L. R. Amperes [A]	471-426/213	202	218	225	206	218	227
LRC [A]	6.3x(Code G)	5.9x(Code F)	6.7x(Code G)	7.2x(Code H)	4.9x(Code E)	5.5x(Code F)	6.0x(Code F)
No load current [A]	14.7-17.0/8.50	8.40	9.00	9.40	8.40	9.00	9.40
Rated speed [RPM]	3535	2930	2935	2945	2910	2920	2930
Slip [%]	1.81	2.33	2.17	1.83	3.00	2.67	2.33
Rated torque [ft.lb]	44.0	44.2	44.1	44.0	53.4	53.2	53.0
Locked rotor torque [%]	200	190	220	229	160	180	190
Breakdown torque [%]	250	229	270	290	190	220	240
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	105 K
Locked rotor time	27s (cold) 15s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level ²	72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
Efficiency (%)	25%						
	50%	91.7	91.0	91.1	91.2	91.7	91.7
	75%	91.7	91.5	91.5	91.8	90.2	91.0
	100%	91.7	92.4	92.4	92.4	89.5	90.2
Power Factor	25%						
	50%	0.82	0.80	0.79	0.77	0.85	0.84
	75%	0.87	0.87	0.87	0.86	0.88	0.88
	100%	0.89	0.89	0.89	0.89	0.89	0.89

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6311 C3	6211 C3	Max. traction : 358 lb
Sealing :	V'Ring	V'Ring	Max. compression : 767 lb
Lubrication interval :	14000 h	17000 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