

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JM
NEMA Premium Efficiency Three-Phase
Product code : 13418946
Catalog # : 00736ET3E184JM-W22

Frame : 182/4JM	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 : 102 lb
Protection degree : IP55	Moment of inertia (J) : 0.2242 sq.ft.lb
Design : B	

Output [HP]	7.5	5.5	5.5	5.5	7.5	7.5	7.5
Poles	2	2	2	2	2	2	2
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	17.5/8.76	7.84	7.68	7.53	10.5	10.0	9.82
L. R. Amperes [A]	144/71.8	65.1	69.9	72.3	66.1	70.0	72.7
LRC [A]	8.2x(Code J)	8.3x(Code J)	9.1x(Code K)	9.6x(Code L)	6.3x(Code G)	7.0x(Code H)	7.4x(Code H)
No load current [A]	6.51/3.26	3.20	3.50	3.77	3.20	3.50	3.77
Rated speed [RPM]	3485	2900	2910	2915	2850	2865	2875
Slip [%]	3.19	3.33	3.00	2.83	5.00	4.50	4.17
Rated torque [ft.lb]	11.1	9.83	9.79	9.78	13.6	13.6	13.5
Locked rotor torque [%]	270	310	350	370	220	250	270
Breakdown torque [%]	330	360	390	430	260	280	310
Service factor	1.25	1.25	1.00	1.00	1.25	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	30s (cold) 17s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	69.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%	88.2	84.2	85.1	85.4	86.6	87.1
	50%	88.5	85.5	85.9	86.2	87.0	87.5
	75%	89.5	87.0	87.6	88.1	87.2	88.0
	100%	89.5	88.1	88.1	88.7	87.2	88.0
Power Factor	25%	0.49	0.45	0.41	0.38	0.55	0.51
	50%	0.75	0.70	0.66	0.63	0.80	0.77
	75%	0.84	0.82	0.79	0.77	0.88	0.86
	100%	0.88	0.88	0.86	0.84	0.91	0.90

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6307 ZZ	6206 ZZ	Max. traction : 220 lb
Sealing :	V'Ring	V'Ring	Max. compression : 322 lb
Lubrication interval :	-	-	
Lubricant amount :	-	-	
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