

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JP
NEMA Premium Efficiency Three-Phase
Product code : 12598762
Catalog # : 00736ET3E213JP-W22

Frame : 213/5JP	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 : 164 lb
Protection degree : IP55	Moment of inertia (J) : 0.4665 sq.ft.lb
Design : B	

Output [HP]	7.5	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]	208-230/460	380	400	415	380	400	415
Rated current [A]	19.4-17.5/8.76	7.24	7.03	6.92	10.6	10.2	9.82
L. R. Amperes [A]	140-126/63.1	59.4	64.0	67.1	60.4	65.3	67.8
LRC [A]	7.2x(Code H)	8.2x(Code J)	9.1x(Code K)	9.7x(Code L)	5.7x(Code F)	6.4x(Code G)	6.9x(Code H)
No load current [A]	4.66-5.40/2.70	2.84	3.05	3.22	2.70	2.90	3.30
Rated speed [RPM]	3520	2940	2950	2952	2895	2905	2915
Slip [%]	2.22	2.00	1.67	1.60	3.50	3.17	2.83
Rated torque [ft.lb]	11.0	8.81	8.78	8.78	13.4	13.4	13.3
Locked rotor torque [%]	210	260	290	320	170	190	210
Breakdown torque [%]	300	380	420	450	229	260	280
Service factor	1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	48s (cold) 27s (hot)	77s (cold) 43s (hot)	68s (cold) 38s (hot)	63s (cold) 35s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level ²	72.0 dB(A)				72.0 dB(A)	72.0 dB(A)	72.0 dB(A)
Efficiency (%)	25%	87.2	86.4	86.1	85.8	89.1	88.1
	50%	87.5	86.7	86.4	86.1	88.5	87.5
	75%	89.5	88.2	88.3	88.5	88.5	88.5
	100%	89.5	88.2	88.3	88.5	87.5	87.5
Power Factor	25%	0.52	0.47	0.43	0.41	0.57	0.54
	50%	0.75	0.74	0.70	0.67	0.80	0.77
	75%	0.84	0.83	0.81	0.78	0.87	0.86
	100%	0.88	0.88	0.86	0.84	0.90	0.89

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6309 Z C3	6207 ZZ	Max. traction : 131 lb
Sealing :	V'Ring	V'Ring	Max. compression : 295 lb
Lubrication interval :	19000 h	40000 h	
Lubricant amount :	13 g	0 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