

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JP
NEMA Premium Efficiency Three-Phase

Product code : 12605578

Catalog # : 02512ET3E324JP-W22

Frame : 324/6JP
Insulation class : F
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Design : B

Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Starting method : Direct On Line
Approx. weight^a : 536 lb
Moment of inertia (J) : 11.5 sq.ft.lb

Output [HP]	25	20	20	20	25	25	25
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]	67.2-60.8/30.4	29.6	29.0	28.3	36.3	35.1	34.2
L. R. Amperes [A]	417-377/188	177	188	198	178	190	198
LRC [A]	6.2x(Code G)	6.0x(Code G)	6.5x(Code H)	7.0x(Code J)	4.9x(Code E)	5.4x(Code F)	5.8x(Code G)
No load current [A]	24.1-28.0/14.0	13.8	14.8	15.7	13.8	14.8	15.7
Rated speed [RPM]	1180	975	980	985	970	975	980
Slip [%]	1.67	2.50	2.00	1.50	3.00	2.50	2.00
Rated torque [ft.lb]	110	106	106	105	134	133	132
Locked rotor torque [%]	210	200	229	250	160	180	200
Breakdown torque [%]	260	250	290	310	200	229	250
Service factor	1.25	1.00	1.15	1.15	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	46s (cold) 26s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%						
	50%	91.7	91.1	91.1	91.1	91.7	91.7
	75%	93.0	91.8	92.2	92.2	91.7	92.4
	100%	93.0	91.6	92.2	92.2	91.0	91.7
Power Factor	25%						
	50%	0.65	0.63	0.60	0.57	0.71	0.68
	75%	0.77	0.76	0.74	0.71	0.81	0.79
	100%	0.82	0.83	0.80	0.79	0.85	0.83

Bearing type : Drive end 6312 C3 Non drive end 6212 C3
Sealing : V'Ring V'Ring
Lubrication interval : 20000 h 20000 h
Lubricant amount : 21 g 13 g
Lubricant type : Mobil Polyrex EM

Foundation loads
Max. traction : 1017 lb
Max. compression : 1553 lb

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