

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11535769

Catalog # : 05018ET3E326JM-W22

Frame : 324/6JM
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. weight² : 612 lb
Moment of inertia (J) : 9.16 sq.ft.lb

Output [HP]	50	40	40	40	50	50	50
Poles	4	4	4	4	4	4	4
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	208-230/460	380	400	415	380	400	415
Rated current [A]	131-118/59.2	58.7	57.1	56.4	71.1	68.4	66.3
L. R. Amperes [A]	812-734/367	376	400	417	370	397	411
LRC [A]	6.2x(Code G)	6.4x(Code G)	7.0x(Code H)	7.4x(Code J)	5.2x(Code E)	5.8x(Code F)	6.2x(Code G)
No load current [A]	40.5-47.0/23.5	25.7	28.1	30.2	25.7	28.1	30.2
Rated speed [RPM]	1775	1470	1475	1475	1465	1470	1470
Slip [%]	1.39	2.00	1.67	1.67	2.33	2.00	2.00
Rated torque [ft.lb]	146	141	140	140	177	176	176
Locked rotor torque [%]	229	229	250	260	180	200	210
Breakdown torque [%]	270	260	300	330	210	240	260
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)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)
Noise level ²	66.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
Efficiency (%)	25%						
	50%	93.0	92.5	91.5	91.5	93.0	92.4
	75%	94.1	93.1	92.8	93.0	93.0	93.0
	100%	94.5	93.6	93.6	93.6	93.0	93.5
Power Factor	25%						
	50%	0.66	0.64	0.60	0.57	0.72	0.68
	75%	0.77	0.77	0.73	0.70	0.81	0.79
	100%	0.83	0.83	0.81	0.79	0.85	0.84

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 : 1476 lb
Max. compression : 2089 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