

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11802659

Frame : 364/5JM
Output : 75 HP (55 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 165/82.5 A
L. R. Amperes : 1056/528 A
LRC : 6.4x(Code G)
No load current : 36.0/18.0 A
Rated speed : 3550 rpm
Slip : 1.39 %
Rated torque : 111 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 240 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 10.6 sq.ft.lb
Design : B

Locked rotor time : 25s (cold) 14s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 80.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 895 lb

Output	25%		50%		75%		100%	
Efficiency (%)	92.9	92.2	93.0	92.4	93.0	92.4	93.0	92.4
	92.8	92.9	93.0	93.0	93.0	93.0	93.0	93.0
Power Factor	0.64	0.69	0.86	0.89	0.89	0.90	0.90	0.90
	0.66	0.64	0.87	0.86	0.90	0.89	0.90	0.90

Foundation loads
Max. traction : 605 lb
Max. compression : 1500 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	7.2	7.8	7.2	7.2
	P2 (0,5;1,0)	5.6	6.1	5.6	5.6
	P3 (0,25;1,0)	4.8	5.3	4.8	4.8
	P4 (0,9;0,5)	3.4	3.7	3.4	3.4
	P5 (0,5;0,5)	2.0	2.1	2.0	2.0
	P6 (0,5;0,25)	1.1	1.2	1.1	1.1
	P7 (0,25;0,25)	0.6	0.7	0.6	0.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	Lip Seal	Lip Seal
Lubrication interval	:	4000 h	4000 h
Lubricant amount	:	27 g	27 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	29/03/2024			

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