

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11617295

Frame	: 364/5JM	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 60 HP (45 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 135/67.5 A	Protection degree	: IP55
L. R. Amperes	: 851/425 A	Cooling method	: IC411 - TEFC
LRC	: 6.3x(Code G)	Mounting	: F-1
No load current	: 36.0/18.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3550 rpm	Noise level ²	: 80.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 88.8 ft.lb	Approx. weight ³	: 833 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 8.51 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads		
Efficiency (%)	91.5	92.8	91.7	92.4	93.0	93.0	Max. traction : 433 lb
	92.2	92.2	92.4	92.4	93.0	93.0	
Power Factor	0.59	0.59	0.84	0.84	0.89	0.89	Max. compression : 1266 lb
	0.56	0.54	0.82	0.80	0.88	0.87	

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

Losses (%)	P1 (0,9;1,0)	7.0	7.6	7.0	7.0
	P2 (0,5;1,0)	5.2	5.7	5.2	5.2
	P3 (0,25;1,0)	5.0	5.4	5.0	5.0
	P4 (0,9;0,5)	3.5	3.9	3.5	3.5
	P5 (0,5;0,5)	1.9	2.1	1.9	1.9
	P6 (0,5;0,25)	1.2	1.3	1.2	1.2
	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			
			Page	Revision
			1 / 1	