

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11739510

Frame : 182/4JM
Output : 5 HP (3.7 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 5.44 A
L. R. Amperes : 38.1 A
LRC : 7.0x(Code J)
No load current : 3.00 A
Rated speed : 1750 rpm
Slip : 2.78 %
Rated torque : 15.0 ft.lb
Locked rotor torque : 190 %
Breakdown torque : 260 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 0.3683 sq.ft.lb
Design : B

Locked rotor time : 23s (cold) 13s (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 : 56.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 95.3 lb

Output	25%	50%	75%	100%
Efficiency (%)	86.2	86.5	87.5	87.5
Power Factor	0.34	0.60	0.72	0.78

Foundation loads
Max. traction : 201 lb
Max. compression : 297 lb

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
13.8	12.6	12.9	7.2	5.6	4.1	3.3

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type :		6307 ZZ	6206 ZZ
Sealing :		V'Ring	V'Ring
Lubrication interval :		-	-
Lubricant amount :		-	-
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		Page 1 / 1		
Checked by				
Date	29/03/2024			
		Revision		