

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Close Coupled Pump JM High Efficiency Three-Phase Product code : 11523575

Frame	: 213/5JM	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 25.0/12.5 A	Protection degree	: IP55
L. R. Amperes	: 163/81.2 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code H)	Mounting	: F-1
No load current	: 11.4/5.70 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1760 rpm	Noise level ²	: 58.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 29.8 ft.lb	Approx. weight ³	: 174 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 1.16 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	89.3	86.2	89.5	86.0	89.5	85.5	Max. traction	: 381 lb		
	87.2	87.2	87.0	87.0	87.0	86.5				
Power Factor	0.41	0.48	0.68	0.75	0.78	0.84	0.84	0.87	Max. compression	: 555 lb
	0.44	0.41	0.71	0.68	0.82	0.80	0.86	0.85		

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

Losses (%)	P1 (0,9;1,0)	11.8	17.1	15.7	15.7
	P2 (0,5;1,0)	10.6	15.3	14.1	14.1
	P3 (0,25;1,0)	9.5	13.7	12.6	12.6
	P4 (0,9;0,5)	5.8	8.4	7.7	7.7
	P5 (0,5;0,5)	4.3	6.2	5.7	5.7
	P6 (0,5;0,25)	3.0	4.3	4.0	4.0
	P7 (0,25;0,25)	2.2	3.2	2.9	2.9

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 Z C3	6207 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	40000 h
Lubricant amount	:	13 g	0 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				Page	Revision
Date	29/03/2024			1 / 1	