

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11523942

Frame	: 182/4JM	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 7.5 HP (5.5 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	: 17.3/8.67 A	Protection degree	: IP55
L. R. Amperes	: 125/62.4 A	Cooling method	: IC411 - TEFC
LRC	: 7.2x(Code H)	Mounting	: F-1
No load current	: 5.80/2.90 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3470 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 3.61 %	Starting method	: Direct On Line
Rated torque	: 11.3 ft.lb	Approx. weight ³	: 102 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 290 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.2288 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	87.2	85.1	87.5	85.5	88.5	85.5	88.5	85.5	Max. traction	: 186 lb
	86.1	87.1	86.5	87.5	87.5	88.5	87.5	88.5		
Power Factor	0.55	0.62	0.83	0.86	0.88	0.90	0.90	0.91	Max. compression	: 288 lb
	0.59	0.56	0.84	0.82	0.89	0.88	0.90	0.90		

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

Losses (%)	P1 (0,9;1,0)	12.4	16.2	13.6	12.4
	P2 (0,5;1,0)	10.1	13.2	11.1	10.1
	P3 (0,25;1,0)	9.4	12.3	10.3	9.4
	P4 (0,9;0,5)	6.0	7.8	6.6	6.0
	P5 (0,5;0,5)	3.7	4.8	4.0	3.7
	P6 (0,5;0,25)	2.2	2.9	2.4	2.2
	P7 (0,25;0,25)	1.4	1.8	1.5	1.4

		<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 Revision		
Checked by				
Date	29/03/2024			