

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11524372

Frame	: 254/6JM	Locked rotor time	: 19s (cold) 11s (hot)
Output	: 25 HP (18.5 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	: 56.8/28.4 A	Protection degree	: IP55
L. R. Amperes	: 352/176 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code G)	Mounting	: F-1
No load current	: 16.0/8.00 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3515 rpm	Noise level ²	: 72.0 dB(A)
Slip	: 2.36 %	Starting method	: Direct On Line
Rated torque	: 37.3 ft.lb	Approx. weight ³	: 295 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.54 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	90.8	88.0	91.0	89.5	91.0	89.5	91.0	91.0	Max. traction	: 351 lb
	88.6	90.0	89.5	90.2	90.2	91.0	91.0	91.0		
Power Factor	0.56	0.57	0.81	0.82	0.87	0.88	0.90	0.90	Max. compression	: 646 lb
	0.53	0.50	0.79	0.76	0.86	0.85	0.89	0.89		

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

Losses (%)	P1 (0,9;1,0)	9.6	9.6	9.6	9.6
	P2 (0,5;1,0)	8.2	8.2	8.2	8.2
	P3 (0,25;1,0)	7.8	7.8	7.8	7.8
	P4 (0,9;0,5)	4.2	4.2	4.2	4.2
	P5 (0,5;0,5)	2.7	2.7	2.7	2.7
	P6 (0,5;0,25)	1.5	1.5	1.5	1.5
	P7 (0,25;0,25)	1.0	1.0	1.0	1.0

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	19000 h	20000 h
Lubricant amount	:	13 g	9 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		Page 1 / 1		
Checked by				
Date	29/03/2024			
			Revision	