

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11899437

Frame	: 364/5JP	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 75 HP (55 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	: 165/82.5 A	Protection degree	: IP55
L. R. Amperes	: 1056/528 A	Cooling method	: IC411 - TEFC
LRC	: 6.4x(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	: 111 ft.lb	Approx. weight ³	: 899 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 10.6 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	92.9	92.2	93.0	92.4	93.0	92.4
	92.8	92.9	93.0	93.0	93.0	93.0
Power Factor	0.64	0.69	0.86	0.89	0.89	0.90
	0.66	0.64	0.87	0.86	0.90	0.90

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

Losses (%)	P1 (0,9;1,0)	7.2	7.8	7.2	7.2
	P2 (0,5;1,0)	5.6	6.1	5.6	5.6
	P3 (0,25;1,0)	4.8	5.3	4.8	4.8
	P4 (0,9;0,5)	3.4	3.7	3.4	3.4
	P5 (0,5;0,5)	2.0	2.1	2.0	2.0
	P6 (0,5;0,25)	1.1	1.2	1.1	1.1
	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		Page 1 / 1 Revision		
Checked by				
Date	29/03/2024			