

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11600475

Frame	: 364/5JP	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 60 HP (45 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	: 139/69.4 A	Protection degree	: IP55
L. R. Amperes	: 874/437 A	Cooling method	: IC411 - TEFC
LRC	: 6.3x(Code G)	Mounting	: F-1
No load current	: 42.0/21.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1770 rpm	Noise level ²	: 71.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 178 ft.lb	Approx. weight ³	: 841 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 17.4 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	93.5	94.0	93.6	93.6	93.6	93.6	93.6	93.0	Max. traction	: 1225 lb
	94.0	92.8	93.6	93.0	93.6	93.6	93.0	93.6		
Power Factor	0.53	0.54	0.79	0.79	0.85	0.85	0.87	0.87	Max. compression	: 2065 lb
	0.50	0.48	0.76	0.74	0.84	0.82	0.86	0.86		

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

Losses (%)	P1 (0,9;1,0)	6.6	7.2	7.2	6.6
	P2 (0,5;1,0)	5.2	5.8	5.8	5.2
	P3 (0,25;1,0)	4.6	5.0	5.0	4.6
	P4 (0,9;0,5)	3.1	3.4	3.4	3.1
	P5 (0,5;0,5)	1.9	2.1	2.1	1.9
	P6 (0,5;0,25)	1.1	1.3	1.3	1.1
	P7 (0,25;0,25)	0.7	0.8	0.8	0.7

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	Lip Seal	Lip Seal
Lubrication interval	:	12000 h	12000 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 Revision 1 / 1		
Checked by				
Date	29/03/2024			