

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11525214

Frame	: 143/5JP	Locked rotor time	: 19s (cold) 11s (hot)
Output	: 3 HP (2.2 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	: 7.52/3.76 A	Protection degree	: IP55
L. R. Amperes	: 51.9/25.9 A	Cooling method	: IC411 - TEFC
LRC	: 6.9x(Code H)	Mounting	: F-1
No load current	: 2.40/1.20 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3440 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 4.44 %	Starting method	: Direct On Line
Rated torque	: 4.58 ft.lb	Approx. weight ³	: 57.6 lb
Locked rotor torque	: 280 %		
Breakdown torque	: 310 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0610 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	85.2	83.5	85.5	84.0	85.5	84.0	85.5	84.0	Max. traction	: 106 lb
	86.4	86.5	85.5	85.5	85.5	85.5	84.0	84.0		
Power Factor	0.48	0.55	0.71	0.77	0.81	0.85	0.86	0.88	Max. compression	: 164 lb
	0.51	0.48	0.74	0.71	0.83	0.81	0.87	0.86		

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

Losses (%)	P1 (0,9;1,0)	16.1	18.1	18.1	18.1
	P2 (0,5;1,0)	13.4	15.1	15.1	15.1
	P3 (0,25;1,0)	12.9	14.4	14.4	14.4
	P4 (0,9;0,5)	7.2	8.1	8.1	8.1
	P5 (0,5;0,5)	4.6	5.2	5.2	5.2
	P6 (0,5;0,25)	2.7	3.0	3.0	3.0
	P7 (0,25;0,25)	1.8	2.0	2.0	2.0

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6206 ZZ	6204 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		
Checked by				
Date	29/03/2024			
			Revision	