

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12602637

Frame	: 284/6JM	Locked rotor time	: 41s (cold) 23s (hot)
Output	: 25 HP (18.5 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	: 58.4/29.2 A	Protection degree	: IP55
L. R. Amperes	: 356/178 A	Cooling method	: IC411 - TEFC
LRC	: 6.1x(Code G)	Mounting	: F-1
No load current	: 19.0/9.50 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1770 rpm	Noise level ²	: 64.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 74.2 ft.lb	Approx. weight ³	: 409 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 5.11 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	91.5	92.8	91.7	91.7	92.4	91.7	92.4	90.2	Max. traction	: 616 lb
	92.1	92.1	91.7	91.7	91.7	92.4	91.0	91.7		
Power Factor	0.49	0.55	0.73	0.78	0.82	0.85	0.86	0.87	Max. compression	: 1025 lb
	0.51	0.49	0.75	0.73	0.83	0.82	0.87	0.86		

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

Losses (%)	P1 (0,9;1,0)	8.0	10.5	9.6	8.8
	P2 (0,5;1,0)	6.7	8.8	8.0	7.3
	P3 (0,25;1,0)	6.0	7.9	7.2	6.6
	P4 (0,9;0,5)	3.7	4.8	4.4	4.0
	P5 (0,5;0,5)	2.4	3.2	2.9	2.7
	P6 (0,5;0,25)	1.5	2.0	1.8	1.6
	P7 (0,25;0,25)	1.0	1.3	1.2	1.1

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6311 C3	6211 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	18 g	11 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	