

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12599092

Frame	: 254/6JM	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 15 HP (11 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	: 36.1/18.1 A	Protection degree	: IP55
L. R. Amperes	: 217/108 A	Cooling method	: IC411 - TEFC
LRC	: 6.0x(Code G)	Mounting	: F-1
No load current	: 14.2/7.10 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1770 rpm	Noise level <sup>2</sup>	: 64.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 44.5 ft.lb	Approx. weight <sup>3</sup>	: 267 lb
Locked rotor torque	: 229 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 2.38 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	90.0	87.0	90.2	87.3	91.0	87.5	91.0	87.5	Max. traction	: 434 lb
	88.1	89.1	88.3	89.3	88.5	89.5	88.5	89.5		
Power Factor	0.44	0.51	0.68	0.74	0.80	0.84	0.84	0.87	Max. compression	: 701 lb
	0.47	0.44	0.71	0.68	0.82	0.80	0.85	0.84		

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

Losses (%)	P1 (0,9;1,0)	9.6	13.9	12.7	11.4
	P2 (0,5;1,0)	8.5	12.3	11.2	10.1
	P3 (0,25;1,0)	8.3	12.0	11.0	9.9
	P4 (0,9;0,5)	4.6	6.7	6.1	5.5
	P5 (0,5;0,5)	3.3	4.7	4.3	3.9
	P6 (0,5;0,25)	2.1	3.1	2.8	2.5
	P7 (0,25;0,25)	1.5	2.2	2.0	1.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 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 Revision		
Checked by				
Date	29/03/2024			