

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 High Efficiency Three-Phase

Product code : 11997214

Frame	: 182/4T	Locked rotor time	: 57s (cold) 32s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K
Poles	: 8	Duty cycle	: Cont.(S1)
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380 V	Altitude	: 1000 m.a.s.l.
Rated current	: 3.16 A	Protection degree	: IP55
L. R. Amperes	: 13.3 A	Cooling method	: IC411 - TEFC
LRC	: 4.2x(Code G)	Mounting	: F-1
No load current	: 1.90 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 695 rpm	Noise level <sup>2</sup>	: 46.0 dB(A)
Slip	: 7.33 %	Starting method	: Direct On Line
Rated torque	: 11.3 ft.lb	Approx. weight <sup>3</sup>	: 81.1 lb
Locked rotor torque	: 180 %		
Breakdown torque	: 190 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.3918 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	74.0 74.0	77.0 75.5	75.5 77.0	Max. traction	: 99 lb
Power Factor	0.48 0.44	0.62 0.58	0.70 0.66	Max. compression	: 180 lb

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

Losses (%)	P1 (0,9;1,0)	30.6	28.2
	P2 (0,5;1,0)	26.0	23.9
	P3 (0,25;1,0)	26.8	24.7
	P4 (0,9;0,5)	19.4	17.8
	P5 (0,5;0,5)	14.4	13.3
	P6 (0,5;0,25)	12.0	11.0
	P7 (0,25;0,25)	9.3	8.6

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: 6207 ZZ	6206 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				
Checked by				
Date	28/03/2024			
		Page		Revision
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