

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof Standard Three-Phase Product code : 10371655

Frame	: 90S	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 0.75 kW (1 HP-cv)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 220/380 V	Altitude	: 1000 m.a.s.l.
Rated current	: 3.37/1.95 A	Protection degree	: IP55
L. R. Amperes	: 22.6/13.1 A	Cooling method	: IC411 - TFVE
LRC	: 6.7	Mounting	: B34D
No load current	: 2.60/1.51 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1760 rpm	Noise level <sup>2</sup>	: 51.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 0.415 kgfm	Approx. weight <sup>3</sup>	: 27.7 kg
Locked rotor torque	: 190 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0039 kgm <sup>2</sup>		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	71.0	76.0	77.9	Max. traction	: 17 kgf
Power Factor	0.54	0.65	0.75	Max. compression	: 46 kgf

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
26.0	19.9	19.6	18.6	12.2	11.0	7.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6205 ZZ	6204 ZZ
Sealing	:	Lip Seal	Lip Seal
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 ABNT NBR 17094.

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	130 °C

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