

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IR3 Premium Three-Phase

Product code : 11477798

Frame	: L90S	Locked rotor time	: 14s (cold) 8s (hot)
Output	: 2.2 kW (3 HP-cv)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 220/380/440 V	Altitude	: 1000 m.a.s.l.
Rated current	: 8.24/4.77/4.12 A	Protection degree	: IP55
L. R. Amperes	: 64.3/37.2/32.1 A	Cooling method	: IC411 - TFVE
LRC	: 7.8	Mounting	: B3D
No load current	: 3.80/2.20/1.90 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3485 rpm	Noise level <sup>2</sup>	: 68.0 dB(A)
Slip	: 3.19 %	Starting method	: Direct On Line
Rated torque	: 0.615 kgfm	Approx. weight <sup>3</sup>	: 22.5 kg
Locked rotor torque	: 270 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0023 kgm <sup>2</sup>		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	83.5	85.0	86.5	Max. traction	: 50 kgf
Power Factor	0.63	0.74	0.81	Max. compression	: 72 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)
14.4	11.3	11.3	8.2	5.2	3.9	2.7

	Drive end	Non drive end
Bearing type	: 6205 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 ABNT NBR 17094.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	05/03/2024			
			Page	Revision
			1 / 1	