

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase

Product code : 13079756

Frame	: 90L	Locked rotor time	: 19s (cold) 11s (hot)
Output	: 1.5 kW (2 HP)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 400/690 V	Altitude	: 1000 m.a.s.l.
Rated current	: 3.34/1.94 A	Protection degree	: IP55
L. R. Amperes	: 24.7/14.3 A	Cooling method	: IC411 - TEFC
LRC	: 7.4	Mounting	: B3T
No load current	: 2.20/1.28 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1450 rpm	Noise level ²	: 49.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 9.88 Nm	Approx. weight ³	: 24.5 kg
Locked rotor torque	: 290 %		
Breakdown torque	: 320 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0066 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	82.0	84.0	85.3	Max. traction	: 783 N
Power Factor	0.55	0.68	0.76	Max. compression	: 1024 N

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)
16.9	15.5	15.1	8.6	6.6	4.9	3.7

	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 IEC 60034-1.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	29/08/2023		1 / 1	