

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IR3 Premium Three-Phase

Product code : 11724943

Frame	: L80	Locked rotor time	: 80 K
Output	: 1.5 kW (2 HP-cv)	Temperature rise	: S1
Poles	: 2	Duty cycle	: -20°C to +40°C
Frequency	: 60 Hz	Ambient temperature	: 1000 m.a.s.l.
Rated voltage	: 220/380/440 V	Altitude	: IP55
Rated current	: 5.61/3.25/2.81 A	Protection degree	: IC411 - TFVE
L. R. Amperes	: 43.8/25.3/21.9 A	Cooling method	: B3D
LRC	: 7.8	Mounting	: Both (CW and CCW)
No load current	: 3.00/1.74/1.50 A	Rotation ¹	: 62.0 dB(A)
Rated speed	: 3455 rpm	Noise level ²	: Direct On Line
Slip	: %	Starting method	: 35.6 lb
Rated torque	: 3.06 ft.lb	Approx. weight ³	
Locked rotor torque	: 375 %		
Breakdown torque	: 360 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0244 sq.ft.lb		
Design	: N		

Output 50% 75% 100%

Efficiency (%)

Power Factor

Foundation loads

Max. traction : 89 lb

Max. compression : 125 lb

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)
16.1	13.0	12.4	9.4	6.1	4.6	3.1

	Drive end	Non drive end
Bearing type	: 6204 ZZ	: 6203 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		Page Revision 1 / 1		
Checked by				
Date	04/10/2023			