

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel High Efficiency Three-Phase Product code : 12677349

Frame	: 143/5TC	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 5.10/2.55 A	Protection degree	: IP55
L. R. Amperes	: 43.3/21.7 A	Cooling method	: IC411 - TEFC
LRC	: 8.5x(Code K)	Mounting	: W-6
No load current	: 2.25/1.12 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3500 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 3.00 ft.lb	Approx. weight ³	: 35.8 lb
Locked rotor torque	: 280 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0465 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	82.2	84.0	82.5	82.8	84.0	83.1
	82.2	82.0	83.5	82.8		
Power Factor	0.44	0.51	0.71	0.79	0.82	0.88
	0.43	0.71	0.83	0.89		

					<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:				6205 ZZ	6203 ZZ
Sealing	:				V'Ring	Without Bearing 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 NEMA MG-1.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 1		
Checked by				
Date	26/03/2024			
			Revision	