

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel High Efficiency Three-Phase Product code : 12677346

Frame	: 143/5TC	Locked rotor time	: 23s (cold) 13s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 4.32/2.16 A	Protection degree	: IP55
L. R. Amperes	: 33.7/16.8 A	Cooling method	: IC411 - TEFC
LRC	: 7.8x(Code K)	Mounting	: W-6
No load current	: 2.74/1.37 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1760 rpm	Noise level ²	: 52.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 4.48 ft.lb	Approx. weight ³	: 37.5 lb
Locked rotor torque	: 270 %		
Breakdown torque	: 340 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1232 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	81.2	82.3	81.5	81.7	84.0	83.0	84.0	81.9	Max. traction	: 127 lb
	78.5		79.2		82.1		82.4			
Power Factor	0.30	0.35	0.53	0.61	0.67	0.74	0.76	0.82	Max. compression	: 165 lb
	0.30		0.53		0.67		0.76			

		<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 Revision 1 / 1		
Checked by				
Date	26/03/2024			