

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		
LCR	: 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	Max. traction : 80 lb
	82.2	82.0	83.5	82.8	Max. compression : 116 lb
Power Factor	0.44	0.51	0.71	0.79	
	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.		These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.			
(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.					

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