

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Single-Phase

Product code : 14277780
Catalog # : 00236ES1B145T-S

Frame	: 143/5T	Locked rotor time	: 10s (cold) 6s (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	: 115/208-230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 17.5/9.62-8.73 A	Protection degree	: IP55
L. R. Amperes	: 136/75.0-68.1 A	Cooling method	: IC411 - TEFC
LRC	: 7.8x(Code J)	Mounting	: F-1
No load current	: 5.00/2.16-2.50 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3495 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 2.92 %	Starting method	: Direct On Line
Rated torque	: 3.01 ft.lb	Approx. weight ³	: 39.7 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0707 sq.ft.lb		
Design	: L		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	68.0	70.0	75.0	77.0	Max. traction	: 45 lb
Power Factor	0.67	0.94	0.97	0.97	Max. compression	: 85 lb

		<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	