

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium
Efficiency Three-Phase

Product code : 14325085

Catalog # : 00218XT3E145T

Frame	: 143/5T	Locked rotor time	: 19s (cold) 11s (hot)
Output	: 2 HP (1.5 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	: 5.58/2.79 A	Protection degree	: IP55
L. R. Amperes	: 49.7/24.8 A	Cooling method	: IC411 - TEFC
LRC	: 8.9x(Code L)	Mounting	: F-1
No load current	: 3.20/1.60 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1750 rpm	Noise level ²	: 51.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 6.00 ft.lb	Approx. weight ³	: 71.6 lb
Locked rotor torque	: 270 %		
Breakdown torque	: 320 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1595 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads				
Efficiency (%)	82.9	85.0	84.0	84.0	85.5	84.0	86.5	82.5	Max. traction : 134 lb
	82.1	82.1	82.5	82.5	84.0	84.0	84.0	84.0	
Power Factor	0.32	0.38	0.56	0.64	0.70	0.77	0.78	0.84	Max. compression : 207 lb
	0.34	0.31	0.59	0.55	0.73	0.69	0.81	0.78	

					<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:				6205 2RS	6204 2RS
Sealing	:				Oil Seal	Lip 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 / 2 Revision		
Checked by				
Date	28/03/2024			

Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.	Changes Summary		Performed	Checked	Date
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