

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 14192751

Catalog # : 00336XT3E182T

Frame	: 182/4T	Locked rotor time	: 54s (cold) 30s (hot)
Output	: 3 HP (2.2 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	: 7.52/3.76 A	Protection degree	: IP55
L. R. Amperes	: 63.2/31.6 A	Cooling method	: IC411 - TEFC
LRC	: 8.4x(Code K)	Mounting	: F-1
No load current	: 2.80/1.40 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3510 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 4.49 ft.lb	Approx. weight ³	: 124 lb
Locked rotor torque	: 250 %		
Breakdown torque	: 400 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1471 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	81.3	82.0	82.5	82.5	85.5	85.5	86.5	85.5	Max. traction	: 66 lb
	81.2	81.3	82.5	82.5	85.5	85.5	86.5	86.5		
Power Factor	0.48	0.55	0.73	0.78	0.81	0.85	0.85	0.88	Max. compression	: 190 lb
	0.51	0.48	0.75	0.72	0.83	0.81	0.86	0.85		

				<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:			6307 2RS	6206 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				
Checked by				
Date	28/03/2024			

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Revision

Customer :

Thermal protection

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

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