

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 14901420

Catalog # : 15018XT3ERB445T

Frame	: 444/5T	Locked rotor time	: 66s (cold) 37s (hot)
Output	: 150 HP (110 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	: 340/170 A	Protection degree	: IP55
L. R. Amperes	: 2210/1105 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code G)	Mounting	: F-1
No load current	: 108/54.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1783 rpm	Noise level ²	: 76.0 dB(A)
Slip	: 0.94 %	Starting method	: Direct On Line
Rated torque	: 442 ft.lb	Approx. weight ³	: 2130 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 220 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 66.7 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	94.9	94.4	95.0	94.5	95.8	95.0	95.8	95.0	Max. traction	: 2112 lb
	94.9	94.0	95.0	94.5	95.0	95.0	95.0	95.4		
Power Factor	0.49	0.49	0.72	0.72	0.81	0.81	0.85	0.85	Max. compression	: 4242 lb
	0.46	0.44	0.69	0.67	0.79	0.78	0.84	0.83		

				<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:			NU-219 C3	6316 C3
Sealing	:			Viton Oil Seal	Lip Seal
Lubrication interval	:			5526 h	8569 h
Lubricant amount	:			28 g	34 g
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.

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Customer :

Thermal protection

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

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