

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11450472

Catalog # : 12518XT3E444T

Frame : 444/5T
Output : 125 HP
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 278/139 A
L. R. Amperes : 1890/945 A
LRC : 6.8x(Code G)
No load current : 90.0/45.0 A
Rated speed : 1785 rpm
Slip : 0.83 %
Rated torque : 368 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 220 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 57.2 sq.ft.lb
Design : B

Locked rotor time : 75s (cold) 42s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 76.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1983 lb

Output	25%		50%		75%		100%	
Efficiency (%)	94.0	94.4	94.3	94.5	95.2	94.5	95.4	94.5
	94.8	94.4	94.5	94.5	95.0	95.0	94.5	95.0
Power Factor	0.51	0.51	0.75	0.75	0.82	0.83	0.85	0.85
	0.47	0.45	0.73	0.71	0.81	0.80	0.84	0.83

Foundation loads
Max. traction : 1456 lb
Max. compression : 3436 lb

	Drive end	Non drive end
Bearing type	6219 C3	6316 C3
Sealing	Viton Oil Seal	Lip Seal
Lubrication interval	8033 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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