

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12408372

Catalog # : 07509XT3E444T

Frame : 444/5T
Output : 75 HP (55 kW)
Poles : 8
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 184/92.2 A
L. R. Amperes : 1125/562 A
LRC : 6.1x(Code G)
No load current : 76.0/38.0 A
Rated speed : 890 rpm
Slip : 1.11 %
Rated torque : 443 ft.lb
Locked rotor torque : 170 %
Breakdown torque : 210 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 73.6 sq.ft.lb
Design : B

Locked rotor time : 32s (cold) 18s (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 : 64.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1954 lb

Output	25%		50%		75%		100%	
Efficiency (%)	93.9	94.0	93.6	93.6	94.1	93.6	93.6	93.0
	93.4	92.8	93.0	93.0	93.6	93.6	93.0	93.6
Power Factor	0.41	0.41	0.66	0.66	0.76	0.76	0.80	0.80
	0.37	0.35	0.62	0.59	0.73	0.71	0.79	0.77

Foundation loads
Max. traction : 1974 lb
Max. compression : 3928 lb

	Drive end	Non drive end
Bearing type :	6219 C3	6316 C3
Sealing :	Viton Oil Seal	Viton Seal
Lubrication interval :	15247 h	15904 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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