

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 13465908

Catalog # : 15018XT3H445T

Frame : 444/5T  
Output : 150 HP (110 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 575 V  
Rated current : 136 A  
L. R. Amperes : 884 A  
LRC : 6.5x(Code G)  
No load current : 43.2 A  
Rated speed : 1783 rpm  
Slip : 0.94 %  
Rated torque : 442 ft.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

Locked rotor time : 66s (cold) 37s (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  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 76.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 2111 lb

Output	25%	50%	75%	100%
Efficiency (%)	94.9	95.0	95.8	95.8
Power Factor	0.49	0.72	0.81	0.85

Foundation loads  
Max. traction : 1535 lb  
Max. compression : 3646 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6219 C3	6316 C3
Sealing	:	Viton Oil Seal	Viton 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	130 °C
2	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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