

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 14356574

Catalog # : 30012XT3G449T

Frame : 449T
Output : 300 HP (220 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 460 V
Rated current : 351 A
L. R. Amperes : 2773 A
LRC : 7.9x(Code J)
No load current : 152 A
Rated speed : 1190 rpm
Slip : 0.83 %
Rated torque : 1320 ft.lb
Locked rotor torque : 280 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 145 sq.ft.lb
Design : A

Locked rotor time : 12s (cold) 7s (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 : 70.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 3278 lb

Output	25%	50%	75%	100%				
Efficiency (%)	94.5	94.0	95.0	94.1	95.4	94.5	95.8	94.5
Power Factor	0.41	0.42	0.66	0.67	0.77	0.78	0.82	0.83
	0.37	0.34	0.62	0.58	0.74	0.71	0.81	0.78

Foundation loads
Max. traction : 11088 lb
Max. compression : 14366 lb

	Drive end	Non drive end
Bearing type	6322 C3	6319 C3
Sealing	Viton Oil Seal	Viton Seal
Lubrication interval	9212 h	11094 h
Lubricant amount	60 g	45 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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