

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11360897

Catalog # : 10036XT3H405TS

Frame : 404/5TS
Output : 100 HP (75 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 88.0 A
L. R. Amperes : 572 A
LRC : 6.5x(Code G)
No load current : 20.0 A
Rated speed : 3550 rpm
Slip : 1.39 %
Rated torque : 148 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 280 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 13.2 sq.ft.lb
Design : B

Locked rotor time : 37s (cold) 21s (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 : 85.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1218 lb

Output	25%	50%	75%	100%
Efficiency (%)	93.4	93.6	95.0	95.0
Power Factor	0.62	0.85	0.89	0.90

Foundation loads
Max. traction : 633 lb
Max. compression : 1851 lb

	Drive end	Non drive end
Bearing type	6314 C3	6314 C3
Sealing	Oil Seal	Lip Seal
Lubrication interval	3604 h	3604 h
Lubricant amount	27 g	27 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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