

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11508504

Catalog # : 05012XT3H365T

Frame : 364/5T
Output : 50 HP (37 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 46.5 A
L. R. Amperes : 344 A
LRC : 7.4x(Code H)
No load current : 16.8 A
Rated speed : 1182 rpm
Slip : 1.50 %
Rated torque : 222 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 250 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 29.4 sq.ft.lb
Design : B

Locked rotor time : 36s (cold) 20s (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 : 65.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1040 lb

Output	25%	50%	75%	100%
Efficiency (%)	93.4	93.6	94.1	94.1
Power Factor	0.46	0.71	0.81	0.85

Foundation loads
Max. traction : 1382 lb
Max. compression : 2424 lb

	Drive end	Non drive end
Bearing type	6314 C3	6314 C3
Sealing	Oil Seal	Lip Seal
Lubrication interval	14267 h	14267 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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