

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12408370

Catalog # : 06009XT3E405T

Frame : 404/5T
Output : 60 HP (45 kW)
Poles : 8
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 152/75.9 A
L. R. Amperes : 941/471 A
LRC : 6.2x(Code G)
No load current : 68.0/34.0 A
Rated speed : 885 rpm
Slip : 1.67 %
Rated torque : 356 ft.lb
Locked rotor torque : 180 %
Breakdown torque : 220 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 38.3 sq.ft.lb
Design : B

Locked rotor time : 45s (cold) 25s (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 : 62.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1264 lb

Output	25%		50%		75%		100%	
Efficiency (%)	92.2	92.9	92.4	92.4	93.0	92.4	93.0	91.7
	91.5	90.2	91.7	91.0	92.4	91.7	92.4	92.4
Power Factor	0.39	0.40	0.65	0.66	0.75	0.76	0.80	0.80
	0.36	0.33	0.61	0.57	0.72	0.69	0.78	0.76

Foundation loads
Max. traction : 2135 lb
Max. compression : 3398 lb

	Drive end	Non drive end
Bearing type :	6217 C3	6314 C3
Sealing :	Oil Seal	Lip Seal
Lubrication interval :	16602 h	17353 h
Lubricant amount :	21 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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