

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 13413434

Catalog # : 30018OT3G447/9TS-W40

Frame : 447/9TS
Output : 300 HP (220 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 460 V
Rated current : 339 A
L. R. Amperes : 2407 A
LRC : 7.1x(Code H)
No load current : 105 A
Rated speed : 1780 rpm
Slip : 1.11 %
Rated torque : 885 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 56.1 sq.ft.lb
Design : B

Locked rotor time : 28s (cold) 16s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP23
Cooling method : IC01 - ODP
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 77.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1952 lb

Output	25%		50%		75%		100%	
Efficiency (%)	95.7	94.3	95.8	95.0	95.8	95.4	95.8	96.0
	94.3	94.3	95.0	95.0	95.4	95.4	96.0	96.0
Power Factor	0.52	0.52	0.76	0.76	0.83	0.83	0.85	0.85
	0.48	0.45	0.73	0.70	0.81	0.79	0.84	0.83

Foundation loads
Max. traction : 5172 lb
Max. compression : 7125 lb

	Drive end	Non drive end
Bearing type :	6314 C3	6314 C3
Sealing :	Without Bearing Seal	Without Bearing Seal
Lubrication interval :	20000 h	20000 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	Thermistor - 2 wires	1 x Phase	155 °C

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