

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 13629297

Catalog # : 45036OT3G449TS-RFW40

Frame : 447/9TS
Output : 450 HP (330 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 460 V
Rated current : 478 A
L. R. Amperes : 3250 A
LRC : 6.8x(Code G)
No load current : 105 A
Rated speed : 3565 rpm
Slip : 0.97 %
Rated torque : 663 ft.lb
Locked rotor torque : 180 %
Breakdown torque : 250 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 43.6 sq.ft.lb
Design : A

Locked rotor time : 25s (cold) 14s (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 : 87.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 2177 lb

Output	25%		50%		75%		100%	
Efficiency (%)	95.7	94.3	95.8	94.9	96.2	95.3	96.2	95.8
	94.1	94.0	94.7	94.6	95.3	95.3	95.8	95.8
	94.5	94.5	95.0	95.0	95.4	95.4	95.8	95.8
	94.5		95.0		95.4		95.8	
Power Factor	0.63	0.62	0.84	0.82	0.89	0.88	0.90	0.90
	0.59	0.55	0.81	0.78	0.88	0.87	0.90	0.89
	0.66	0.63	0.85	0.84	0.89	0.89	0.90	0.90
	0.60		0.82		0.88		0.89	

Foundation loads
Max. traction : 3436 lb
Max. compression : 5613 lb

	Drive end	Non drive end
Bearing type	6314 C4	6314 C4
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	14418 h	14418 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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	29/03/2024			

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Revision

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

Space heater information

Voltage: 110-127/200-240 V

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