

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase

Product code :

14384659

Catalog # :

50036OP3HFP447/9TSW4

Frame : 447/9TS
Output : 500 HP (370 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 431 A
L. R. Amperes : 2587 A
LRC : 6.0x(Code F)
No load current : 96.0 A
Rated speed : 3565 rpm
Slip : 0.97 %
Rated torque : 737 ft.lb
Locked rotor torque : 160 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 46.9 sq.ft.lb
Design : B

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 : 85.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 2194 lb

Output	25%	50%	75%	100%
Efficiency (%)	94.5	95.0	95.4	95.8
Power Factor	0.62	0.84	0.89	0.90

Foundation loads
Max. traction : 3419 lb
Max. compression : 5613 lb

	Drive end	Non drive end
Bearing type	6314 C3	6314 C3
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.

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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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