

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase

Product code : 15676857  
Catalog # : 40030OP3OFP449TS-W40

Frame	: 447/9TS	Locked rotor time	: 109s (cold) 61s (hot)
Output	: 400 HP (300 kW)	Temperature rise	: 70 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 50 Hz	Ambient temperature	: -20°C to +50°C
Rated voltage	: 380 V	Altitude	: 1000 m.a.s.l.
Rated current	: 537 A	Protection degree	: IP23
L. R. Amperes	: 3491 A	Cooling method	: IC01 - ODP
LRC	: 6.5x(Code G)	Mounting	: F-1
No load current	: 109 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 2968 rpm	Starting method	: Direct On Line
Slip	: 1.07 %	Approx. weight <sup>3</sup>	: 2414 lb
Rated torque	: 708 ft.lb		
Locked rotor torque	: 210 %		
Breakdown torque	: 200 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 48.2 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	94.9	94.5	95.4	95.4	95.4	95.4	95.4	95.4	Max. traction	: 2936 lb
			95.4		95.4		95.4			
Power Factor	0.71	0.66	0.85	0.83	0.89	0.88	0.89	0.89	Max. compression	: 5351 lb
	0.62		0.81		0.86		0.88			

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	4500 h	4500 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	26/03/2024			

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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

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