

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase Product code : 15601175

Frame	: 447/9TS	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 400 HP (300 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 354 A	Protection degree	: IP23
L. R. Amperes	: 2298 A	Cooling method	: IC01 - ODP
LRC	: 6.5x(Code G)	Mounting	: F-2
No load current	: 80.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3565 rpm	Noise level ²	: 87.0 dB(A)
Slip	: 0.97 %	Starting method	: Direct On Line
Rated torque	: 81.4 kgfm	Approx. weight ³	: 913 kg
Locked rotor torque	: 170 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.65 kgm ²		
Design	: A		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	95.4	95.8	95.8	Max. traction	: 1324 kgf
Power Factor	0.83	0.88	0.89	Max. compression	: 2237 kgf

	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

<p>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.</p>	<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>
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Thermal protection

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

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LOAD PERFORMANCE CURVE

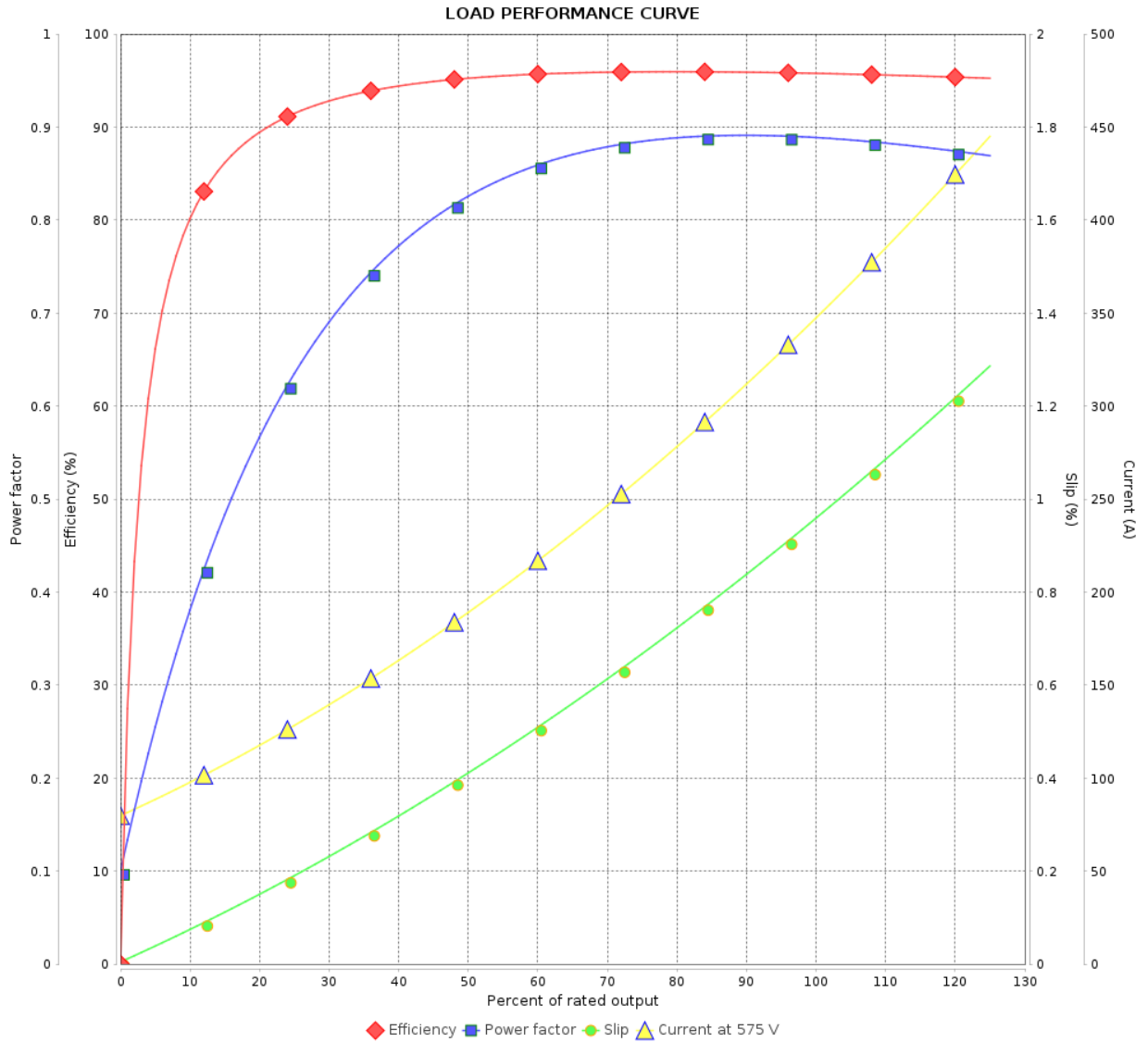
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Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 15601175



Performance : 575 V 60 Hz 2P

Rated current : 354 A
 LRC : 6.5
 Rated torque : 81.4 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 250 %
 Rated speed : 3565 rpm

Moment of inertia (J) : 1.65 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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