

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase
Product code : 14430567

Frame	: 444/5T	Locked rotor time	: 23s (cold) 13s (hot)
Output	: 100 HP (75 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 102 A	Protection degree	: IP23
L. R. Amperes	: 620 A	Cooling method	: IC01 - ODP
LRC	: 6.1x(Code G)	Mounting	: F-1
No load current	: 45.2 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1190 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 61.0 kgfm	Approx. weight ³	: 601 kg
Locked rotor torque	: 200 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 2.55 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	94.5	95.0	95.0	Max. traction	: 1033 kgf
Power Factor	0.61	0.71	0.78	Max. compression	: 1634 kgf

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: 6319 C3	: 6212 Z C3
Sealing	: Without Bearing Seal	: Without Bearing Seal
Lubrication interval	: 20000 h	: 20000 h
Lubricant amount	: 45 g	: 13 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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LOAD PERFORMANCE CURVE

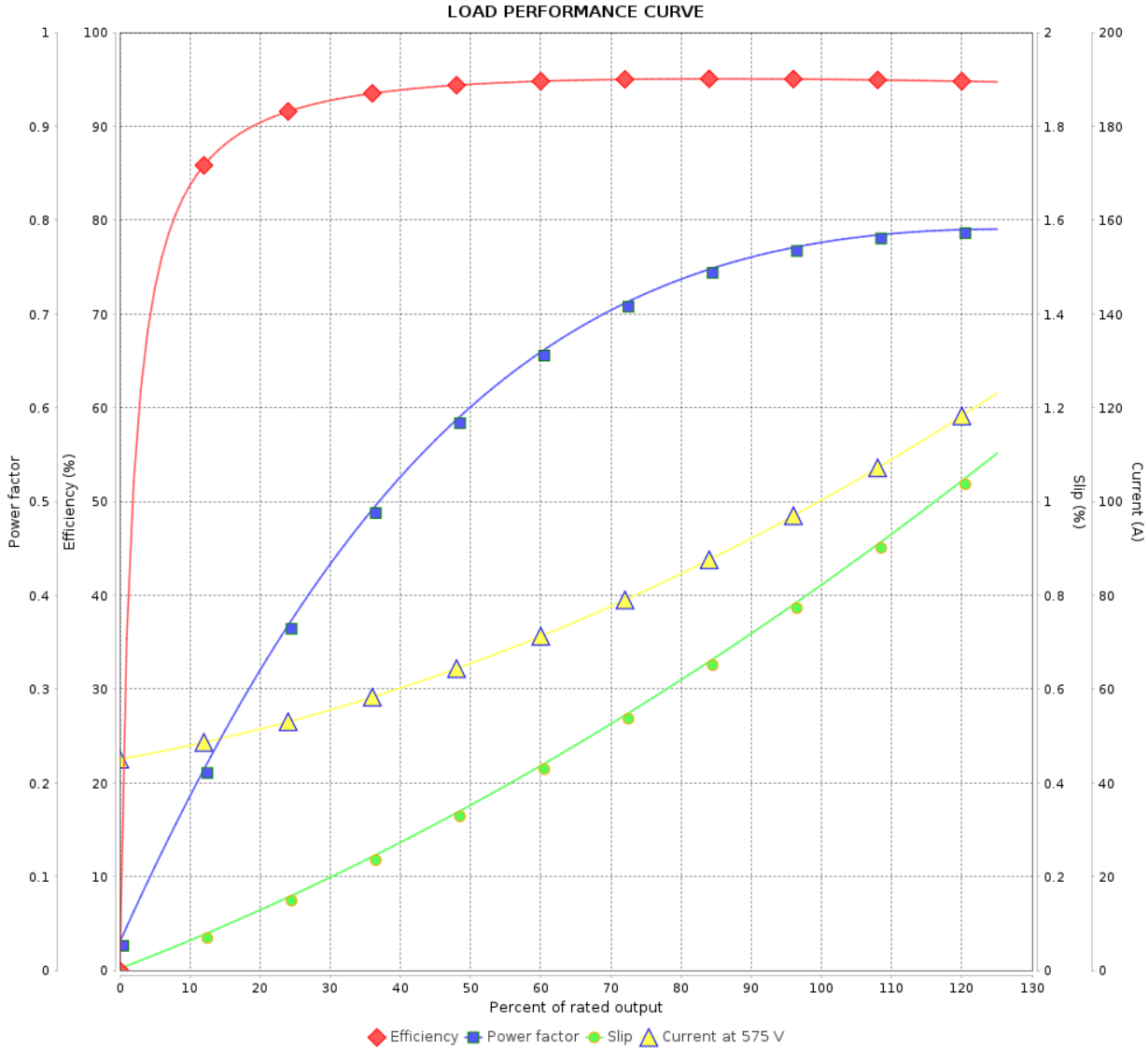
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Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14430567



Performance : 575 V 60 Hz 6P

Rated current	: 102 A	Moment of inertia (J)	: 2.55 kgm ²
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 61.0 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1190 rpm	Design	: B

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