

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase
Product code : 15314645

Frame	: 364/5T	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 50 HP (37 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	: 46.4 A	Protection degree	: IP23
L. R. Amperes	: 311 A	Cooling method	: IC01 - ODP
LRC	: 6.7x(Code G)	Mounting	: F-1
No load current	: 14.8 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1183 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 1.42 %	Starting method	: Direct On Line
Rated torque	: 30.7 kgfm	Approx. weight ³	: 352 kg
Locked rotor torque	: 200 %		
Breakdown torque	: 220 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 1.01 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	93.6	94.1	94.1	Max. traction	: 583 kgf
Power Factor	0.74	0.82	0.85	Max. compression	: 935 kgf

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: 6314 C3	6212 Z C3
Sealing	: Without Bearing Seal	Without Bearing Seal
Lubrication interval	: 20000 h	20000 h
Lubricant amount	: 27 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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Date	16/01/2024		1 / 2	

LOAD PERFORMANCE CURVE

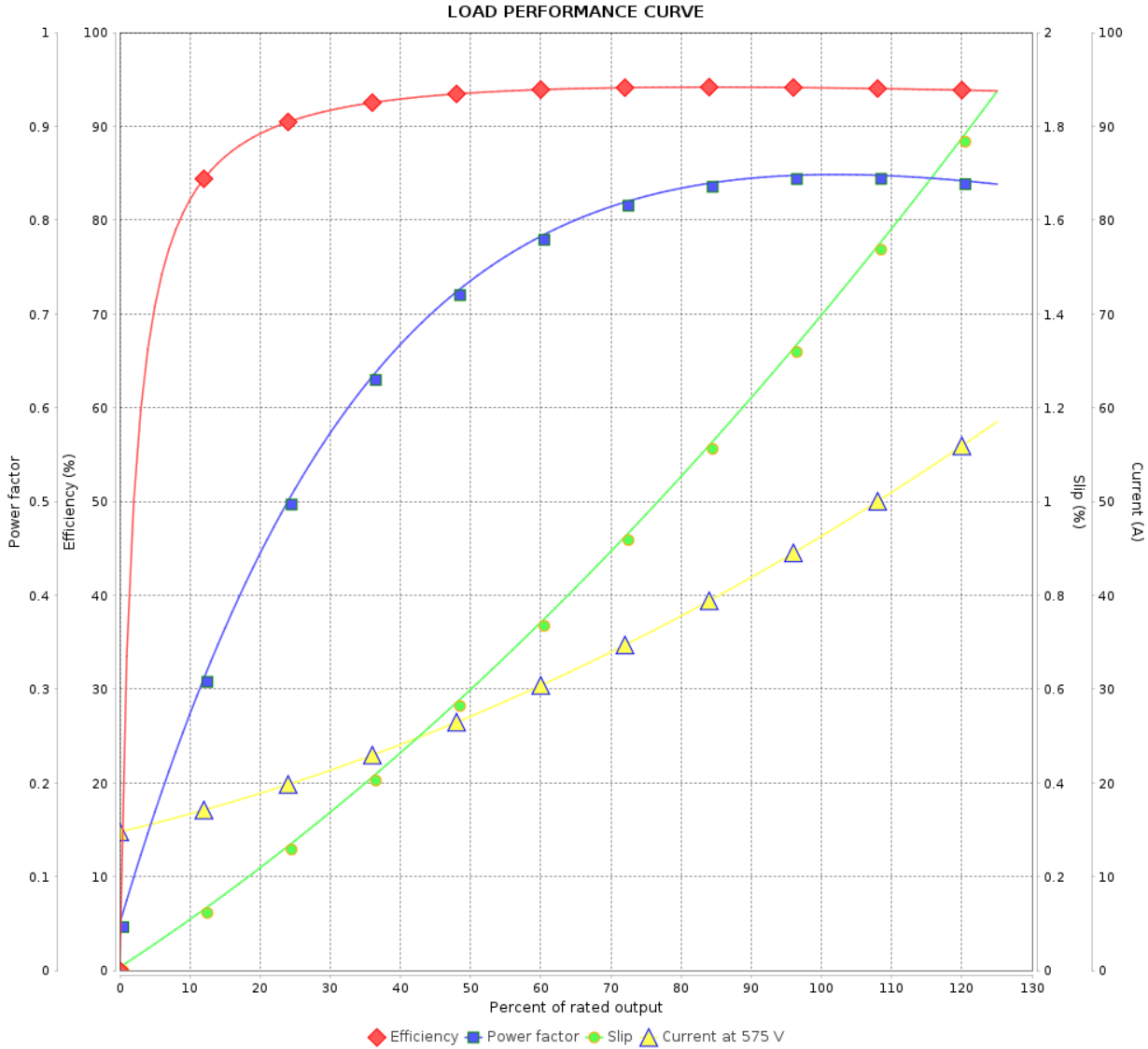
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Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 15314645



Performance : 575 V 60 Hz 6P

Rated current : 46.4 A
 LRC : 6.7
 Rated torque : 30.7 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 220 %
 Rated speed : 1183 rpm

Moment of inertia (J) : 1.01 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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