

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase      Product code : 14427900

Frame	: 444/5TS	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 300 HP (220 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	: 263 A	Protection degree	: IP23
L. R. Amperes	: 1711 A	Cooling method	: IC01 - ODP
LRC	: 6.5x(Code G)	Mounting	: F-1
No load current	: 68.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3570 rpm	Noise level <sup>2</sup>	: 85.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 61.1 kgfm	Approx. weight <sup>3</sup>	: 656 kg
Locked rotor torque	: 150 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.20 kgm <sup>2</sup>		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	95.0	95.4	95.4	Max. traction	: 952 kgf
Power Factor	0.80	0.86	0.88	Max. compression	: 1608 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	: 14418 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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# LOAD PERFORMANCE CURVE

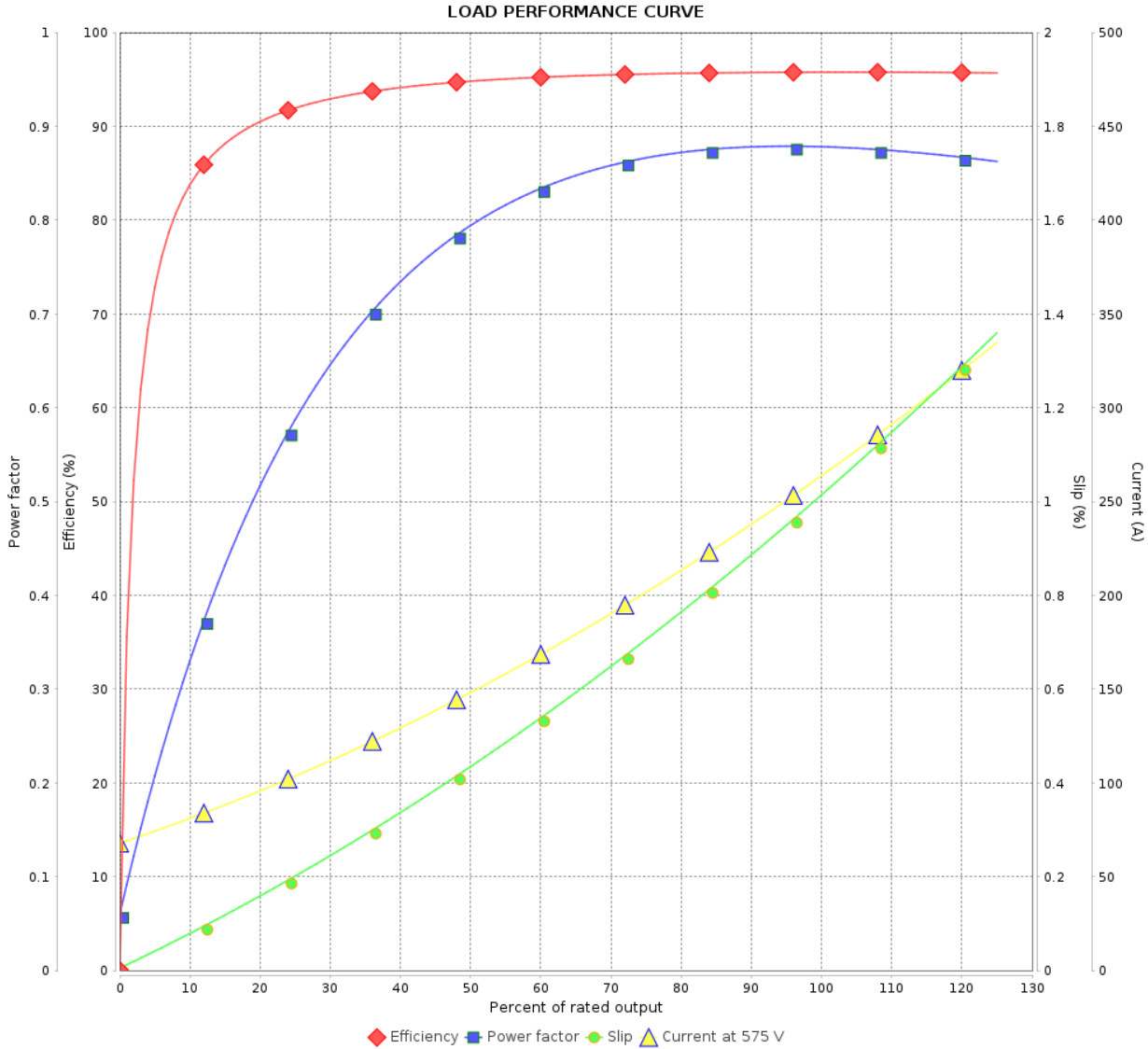
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14427900



Performance : 575 V 60 Hz 2P

Rated current	: 263 A	Moment of inertia (J)	: 1.20 kgm <sup>2</sup>
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 61.1 kgfm	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 3570 rpm	Design	: B

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