

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 14893765

Frame	: 404/5LP	Locked rotor time	: 23s (cold) 13s (hot)
Output	: 100 HP (75 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 90.7 A	Protection degree	: IP55
L. R. Amperes	: 653 A	Cooling method	: IC411 - TEFC
LRC	: 7.2x(Code H)	Mounting	: W-6
No load current	: 34.4 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1780 rpm	Noise level ²	: 75.0 dB(A)
Slip	: 1.11 %	Starting method	: VFD
Rated torque	: 40.8 kgfm	Approx. weight ³	: 554 kg
Locked rotor torque	: 270 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.11 kgm ²		
Design	: A		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	94.5	95.0	95.4	Max. traction
Power Factor	0.00	0.72	0.82	0.87	Max. compression

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	7315BECB
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	4895 h	3268 h
Lubricant amount	:	27 g	30 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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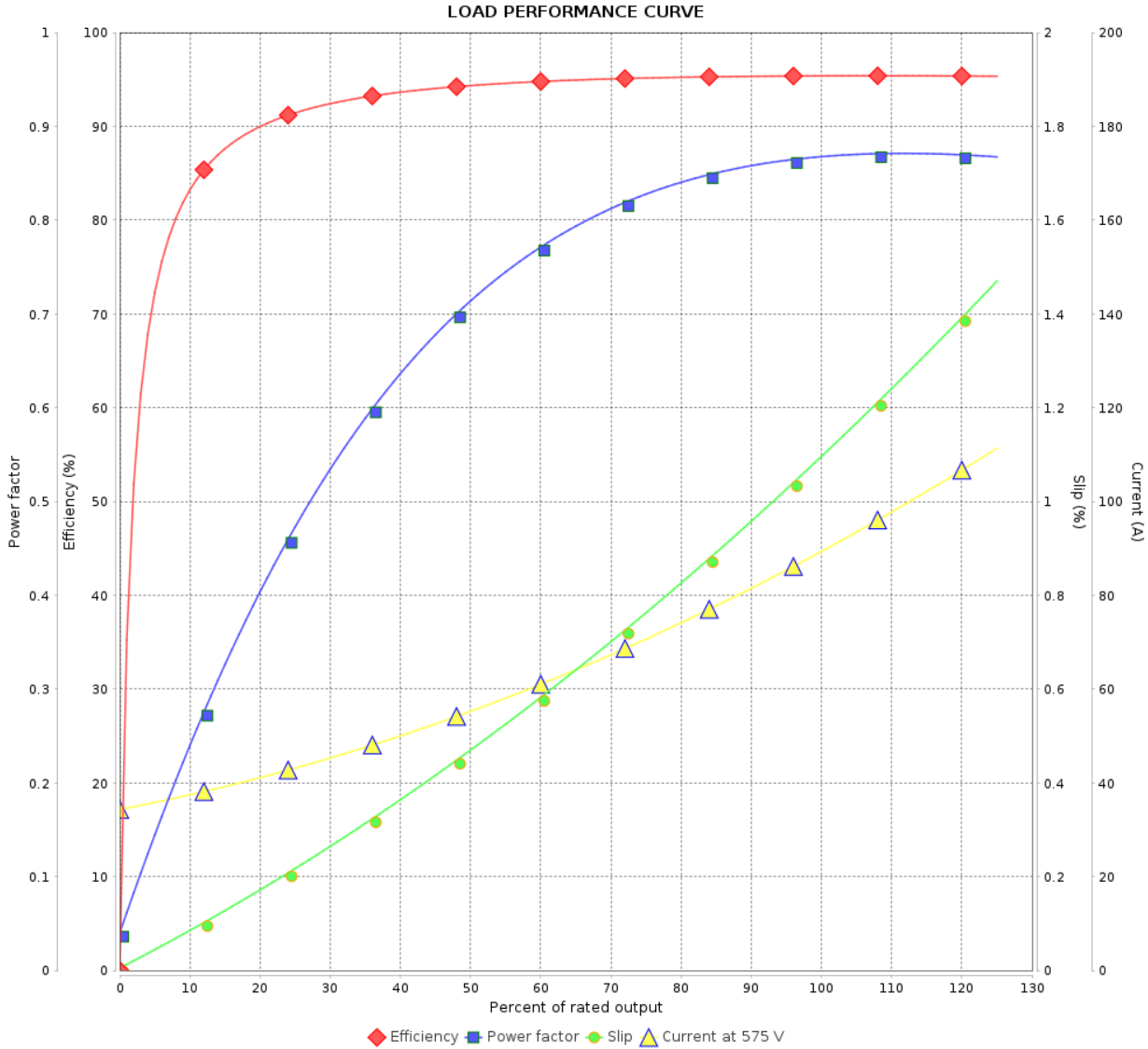
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 14893765



Performance : 575 V 60 Hz 4P

Rated current	: 90.7 A	Moment of inertia (J)	: 1.11 kgm ²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 40.8 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: A

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