

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase      Product code : 14046518

Frame	: 586/7T	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 500 HP (370 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 568 A	Protection degree	: IP55
L. R. Amperes	: 3692 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code G)	Mounting	: F-1
No load current	: 175 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1790 rpm	Noise level <sup>2</sup>	: 78.0 dB(A)
Slip	: 0.56 %	Starting method	: Direct On Line
Rated torque	: 203 kgfm	Approx. weight <sup>3</sup>	: 1774 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 10.8 kgm <sup>2</sup>		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	95.8	96.2	96.2	Max. traction	: 2305 kgf
Power Factor	0.00	0.78	0.83	0.85	Max. compression	: 4079 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	NU-322 C3	6319 C3
Sealing	:	Taconite Labyrinth	Taconite Labyrinth
Lubrication interval	:	4000 h	8000 h
Lubricant amount	:	60 g	45 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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Customer :

Space heater information

Voltage: 200 - 240 V

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# LOAD PERFORMANCE CURVE

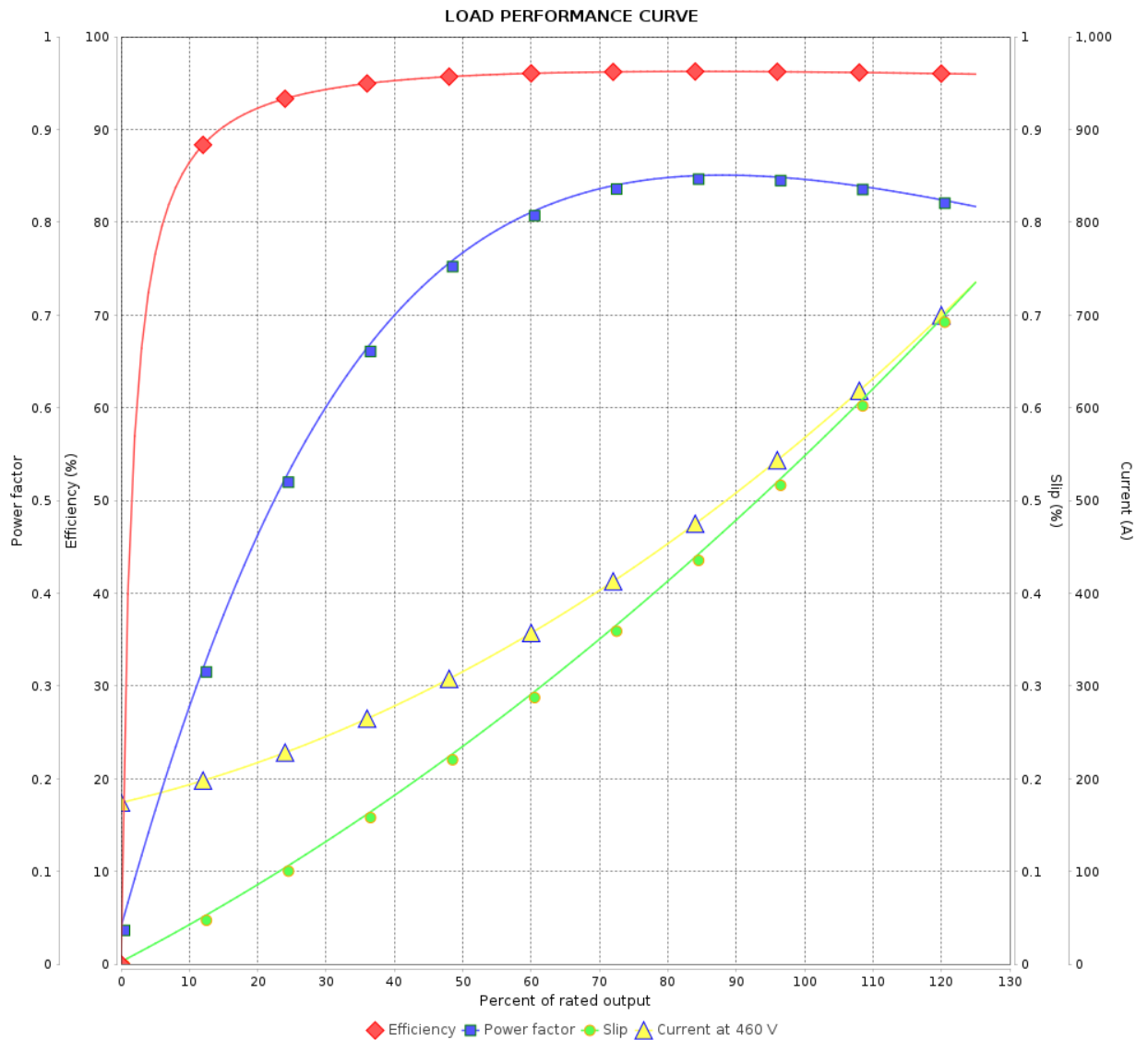
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14046518



Performance : 460 V 60 Hz 4P

Rated current : 568 A  
LRC : 6.5  
Rated torque : 203 kgfm  
Locked rotor torque : 220 %  
Breakdown torque : 229 %  
Rated speed : 1790 rpm

Moment of inertia (J) : 10.8 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

Rev.	Changes Summary		Performed	Checked	Date
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