

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase      Product code : 14793428

Frame	: 284/6T	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 40 HP (30 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	: 37.0 A	Protection degree	: IP55
L. R. Amperes	: 318 A	Cooling method	: IC411 - TEFC
LRC	: 8.6x(Code J)	Mounting	: F-1
No load current	: 10.1 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3550 rpm	Noise level <sup>2</sup>	: 72.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 8.18 kgfm	Approx. weight <sup>3</sup>	: 190 kg
Locked rotor torque	: 300 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1243 kgm <sup>2</sup>		
Design	: A		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	91.7	92.4	92.4	Max. traction	: 221 kgf
Power Factor	0.00	0.76	0.85	0.88	Max. compression	: 411 kgf

		Drive end	Non drive end
Bearing type	:	6311 C3	6211 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	14000 h	17000 h
Lubricant amount	:	18 g	11 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

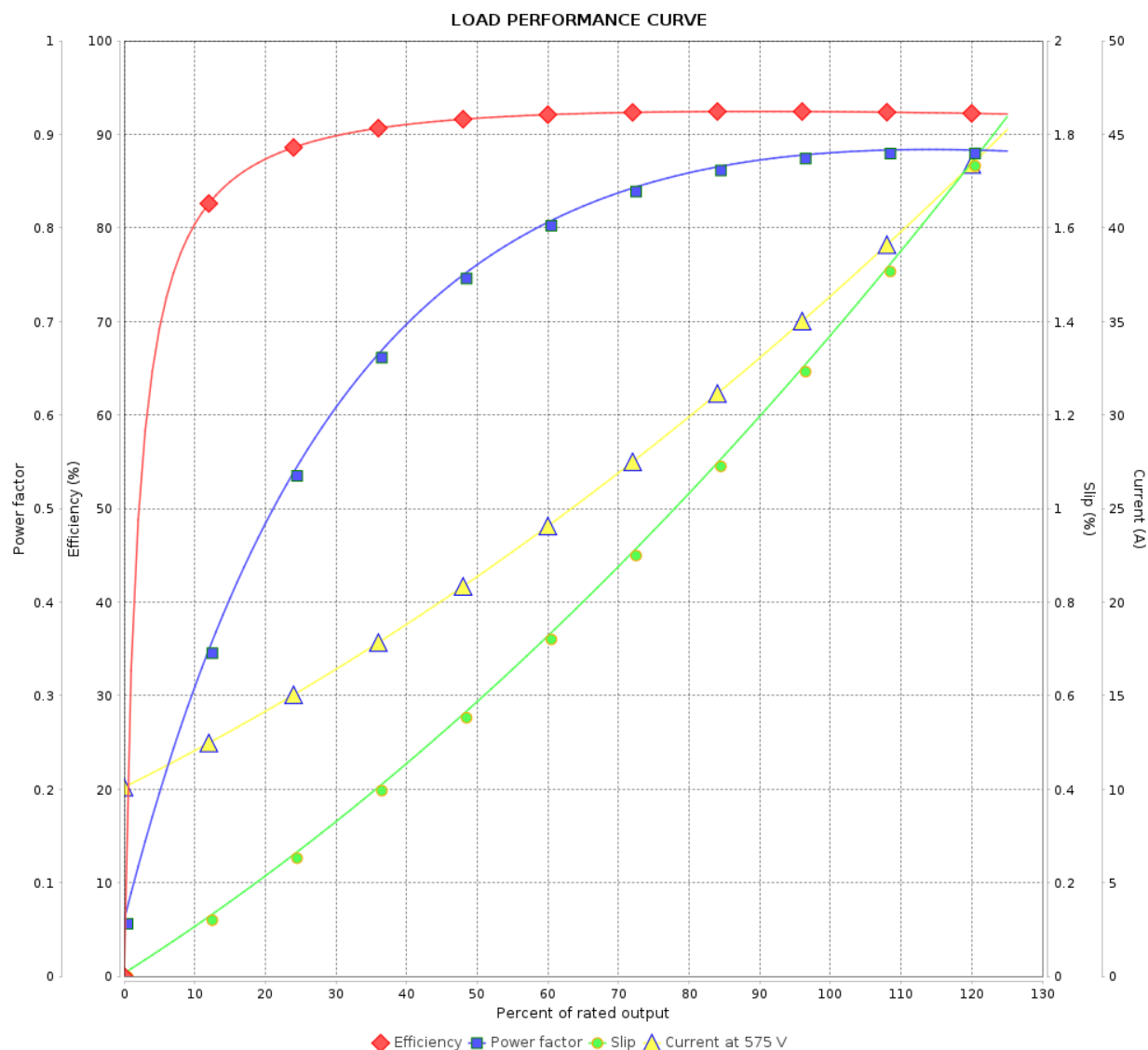
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14793428



Performance : 575 V 60 Hz 2P

Rated current : 37.0 A  
LRC : 8.6  
Rated torque : 8.18 kgfm  
Locked rotor torque : 300 %  
Breakdown torque : 270 %  
Rated speed : 3550 rpm

Moment of inertia (J) : 0.1243 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : A

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