

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :	
Product line	: Standard Efficiency Three-Phase
Product code	: 13997114
Frame	: 56
Insulation class	: F
Duty cycle	: Cont.(S1)
Ambient temperature	: -20°C to +40°C
Altitude	: 1000 m.a.s.l.
Protection degree	: IP55
Cooling method	: IC411 - TEFC
Mounting	: F-1
Rotation <sup>1</sup>	: Both (CW and CCW)
Starting method	: Direct On Line
Approx. weight <sup>3</sup>	: 8.8 kg
Moment of inertia (J)	: 0.0019 kgm <sup>2</sup>
Output [HP]	0.5
Poles	2
Frequency [Hz]	60
Rated voltage [V]	575
Rated current [A]	0.674
L. R. Amperes [A]	4.72
LRC [A]	7.0x(Code L)
No load current [A]	0.360
Rated speed [RPM]	3500
Slip [%]	2.78
Rated torque [kgfm]	0.104
Locked rotor torque [%]	260
Breakdown torque [%]	300
Service factor	1.15
Temperature rise	80 K
Locked rotor time	63s (cold) 35s (hot)
Noise level <sup>2</sup>	68.0 dB(A)
Efficiency (%)	25%
	50%
	75%
	100%
Power Factor	25%
	50%
	75%
	100%
Bearing type	: <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ
Sealing	: V'Ring    V'Ring
Lubrication interval	: -    -
Lubricant amount	: -    -
Lubricant type	: Mobil Polyrex EM
Foundation loads	Max. traction : 5 kgf
	Max. compression : 14 kgf
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.	
Rev.	Changes Summary
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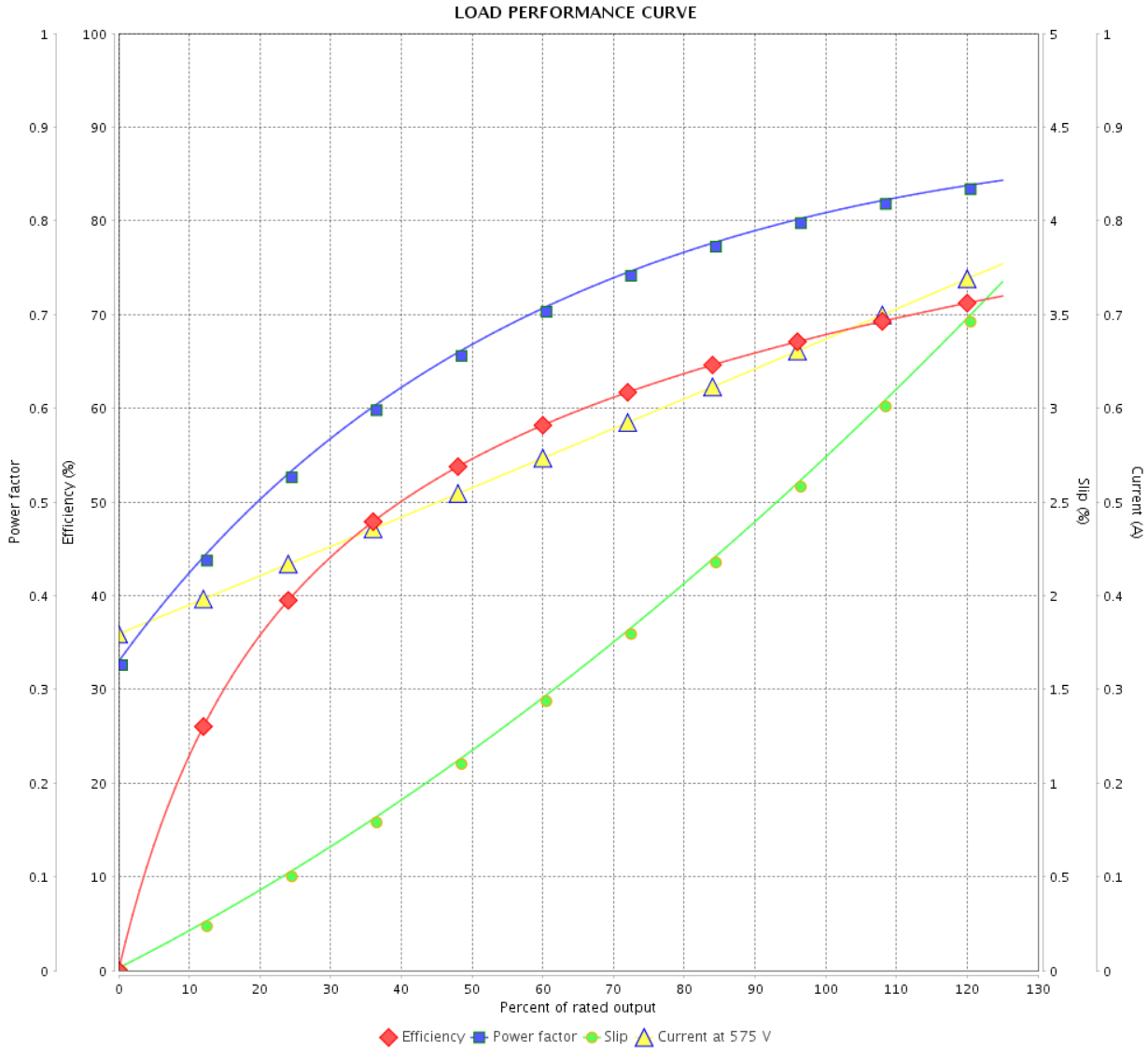
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13997114



Performance : 575 V 60 Hz 2P

Rated current : 0.674 A  
 LRC : 7.0  
 Rated torque : 0.104 kgfm  
 Locked rotor torque : 260 %  
 Breakdown torque : 300 %  
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0019 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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