

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Three-Phase	Product code : 14122140		
Frame	: 56	Cooling method : IC411 - TEFC		
Insulation class	: F	Mounting : F-1		
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup> : Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method : Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup> : 14.8 kg		
Protection degree	: IP55	Moment of inertia (J) : 0.0043 kgm <sup>2</sup>		
Design	: B			
Output [HP]		1.5		
Poles		2		
Frequency [Hz]		60		
Rated voltage [V]		575		
Rated current [A]		1.50		
L. R. Amperes [A]		13.6		
LRC [A]		9.1x(Code L)		
No load current [A]		0.687		
Rated speed [RPM]		3520		
Slip [%]		2.22		
Rated torque [kgfm]		0.309		
Locked rotor torque [%]		229		
Breakdown torque [%]		300		
Service factor		1.15		
Temperature rise		80 K		
Locked rotor time		30s (cold) 17s (hot)		
Noise level <sup>2</sup>		68.0 dB(A)		
Efficiency (%)	25%			
	50%	80.0		
	75%	82.5		
	100%	84.0		
Power Factor	25%			
	50%	0.71		
	75%	0.82		
	100%	0.88		
Bearing type	: <u>Drive end</u> 6204 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads		
Sealing	: V'Ring V'Ring	Max. traction : 22 kgf		
Lubrication interval	: - -	Max. compression : 37 kgf		
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes				
<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p>		<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>		
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# LOAD PERFORMANCE CURVE

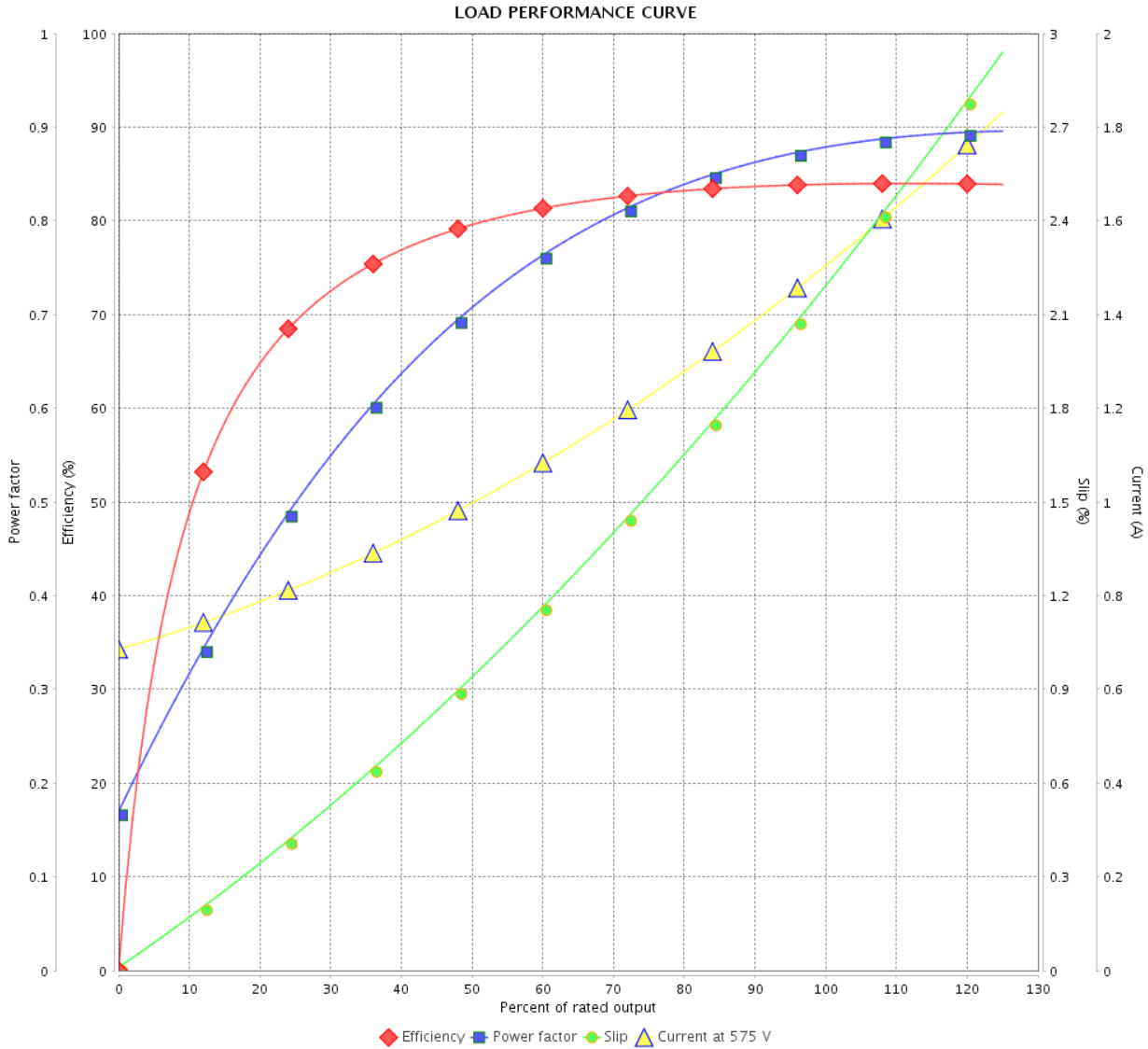
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 14122140



Performance : 575 V 60 Hz 2P

Rated current : 1.50 A  
 LRC : 9.1  
 Rated torque : 0.309 kgfm  
 Locked rotor torque : 229 %  
 Breakdown torque : 300 %  
 Rated speed : 3520 rpm

Moment of inertia (J) : 0.0043 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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