

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Single-Phase	Product code : 14459511		
Frame	: 56HC	Cooling method : IC01 - ODP		
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> : 18.5 kg		
Design	: L	Moment of inertia (J) : 0.0032 kgm <sup>2</sup>		
Output [HP]		2		
Poles		2		
Frequency [Hz]		60		
Rated voltage [V]		115/208-230		
Rated current [A]		16.8/9.29-8.40		
L. R. Amperes [A]		144/79.9-72.2		
LRC [A]		8.6x(Code K)		
No load current [A]		4.40/1.90-2.20		
Rated speed [RPM]		3500		
Slip [%]		2.78		
Rated torque [kgfm]		0.415		
Locked rotor torque [%]		250		
Breakdown torque [%]		280		
Service factor				
Temperature rise		80 K		
Locked rotor time		14s (cold) 8s (hot)		
Noise level <sup>2</sup>		58.0 dB(A)		
Efficiency (%)	25%			
	50%	76.0		
	75%	81.0		
	100%	82.9		
Power Factor	25%			
	50%	0.90		
	75%	0.94		
	100%	0.94		
Bearing type	: <u>Drive end</u> 6204 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction : 28 kgf Max. compression : 46 kgf		
Lubrication interval	: - -			
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.                  (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.</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

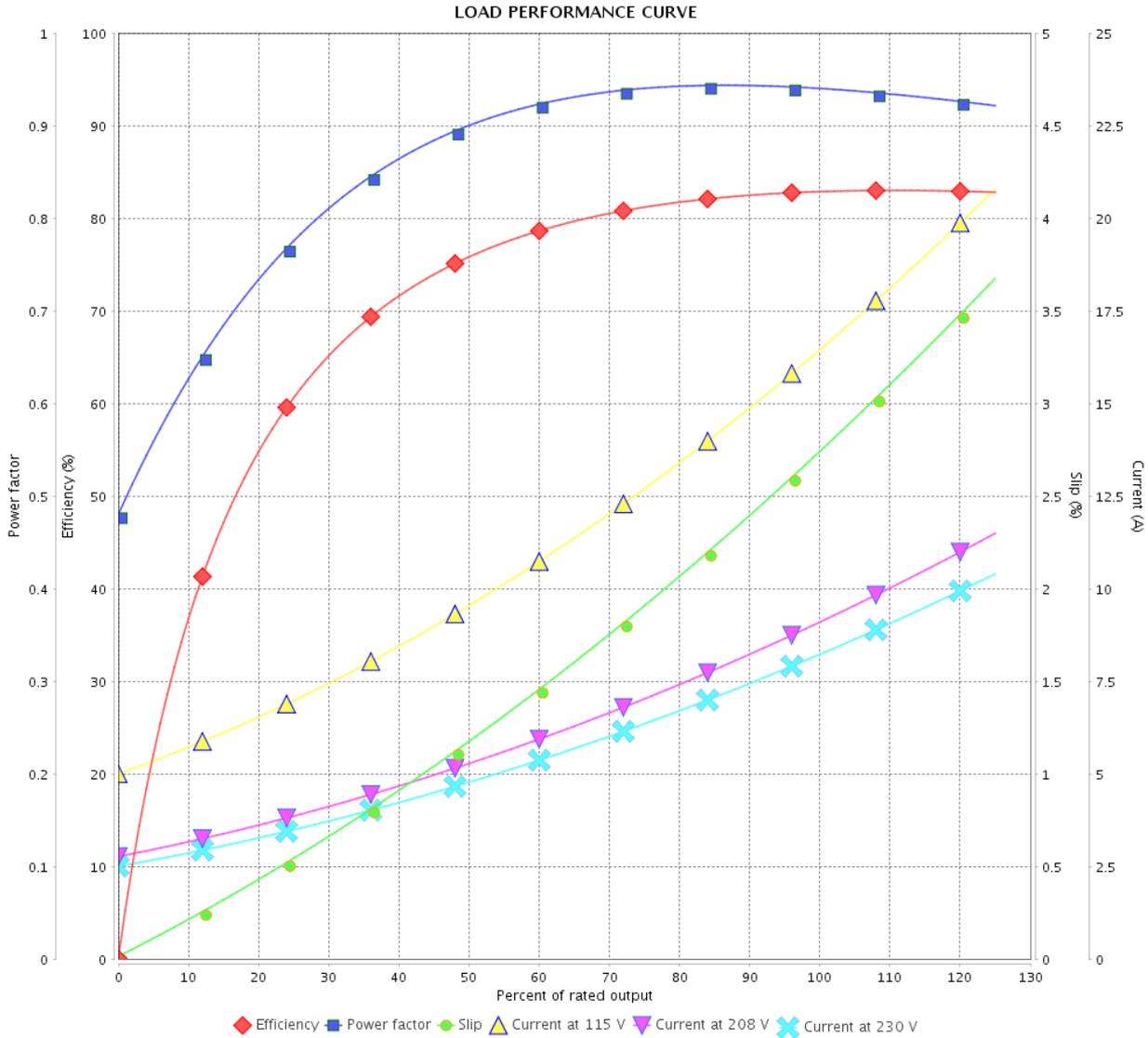
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Single-Phase

Product code : 14459511



Performance : 115/208-230 V 60 Hz 2P

Rated current : 16.8/9.29-8.40 A  
 LRC : 8.6  
 Rated torque : 0.415 kgfm  
 Locked rotor torque : 250 %  
 Breakdown torque : 280 %  
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0032 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : L

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Checked by				
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