

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Single-Phase	Product code : 14009345		
Frame	: 56HC	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> : 23.9 kg		
Protection degree	: IP55	Moment of inertia (J) : 0.0040 kgm <sup>2</sup>		
Design	: L			
Output [HP]		3		
Poles		2		
Frequency [Hz]		60		
Rated voltage [V]		115/208-230		
Rated current [A]		25.4/14.0-12.7		
L. R. Amperes [A]		203/112-102		
LRC [A]		8.0x(Code J)		
No load current [A]		8.00/3.45-4.00		
Rated speed [RPM]		3490		
Slip [%]		3.06		
Rated torque [kgfm]		0.624		
Locked rotor torque [%]		210		
Breakdown torque [%]		250		
Service factor				
Temperature rise		80 K		
Locked rotor time		10s (cold) 6s (hot)		
Noise level <sup>2</sup>		68.0 dB(A)		
Efficiency (%)	25%			
	50%	76.0		
	75%	79.0		
	100%	80.0		
Power Factor	25%			
	50%	0.86		
	75%	0.92		
	100%	0.94		
Bearing type	: <u>Drive end</u> 6204 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads		
Sealing	: V'Ring                    V'Ring	Max. traction : 37 kgf		
Lubrication interval	: -                                -	Max. compression : 61 kgf		
Lubricant amount	: -                                -			
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

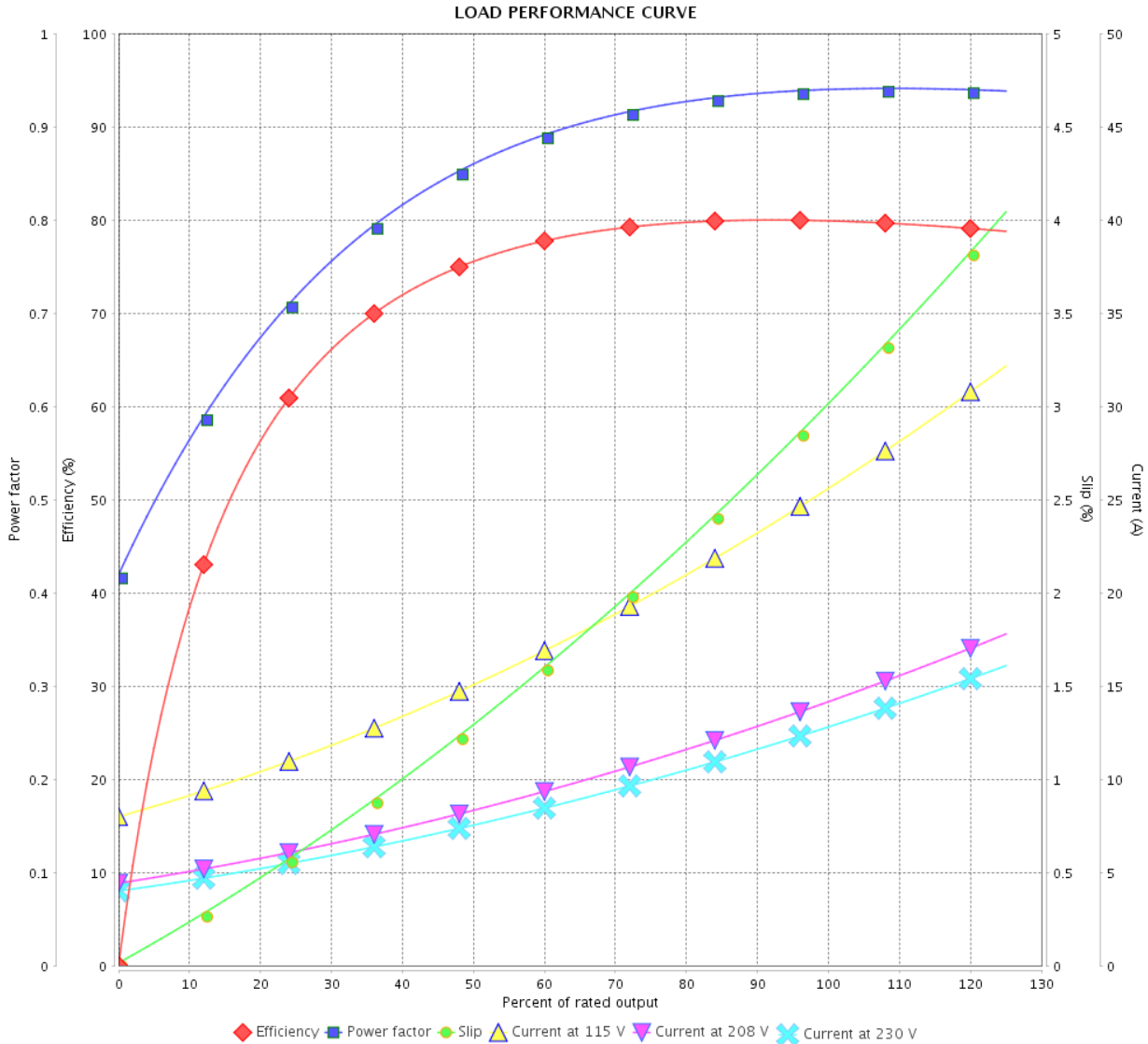
Single Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : Single-Phase

Product code : 14009345



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

Rated current : 25.4/14.0-12.7 A  
 LRC : 8.0  
 Rated torque : 0.624 kgfm  
 Locked rotor torque : 210 %  
 Breakdown torque : 250 %  
 Rated speed : 3490 rpm

Moment of inertia (J) : 0.0040 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : L

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