

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer	:				
Product line	: Single-Phase	Product code :	13878029		
Frame	: W56C	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>	: 8.4 kg		
Design	: N	Moment of inertia (J)	: 0.0008 kgm <sup>2</sup>		
Output [HP]	0.33				
Poles	2				
Frequency [Hz]	60				
Rated voltage [V]	115/208-230				
Rated current [A]	5.00/2.76-2.50				
L. R. Amperes [A]	37.0/20.4-18.5				
LRC [A]	7.4x(Code M)				
No load current [A]	3.40/1.47-1.70				
Rated speed [RPM]	3500				
Slip [%]	2.78				
Rated torque [kgfm]	0.068				
Locked rotor torque [%]	300				
Breakdown torque [%]	300				
Service factor					
Temperature rise	80 K				
Locked rotor time	14s (cold) 8s (hot)				
Noise level <sup>2</sup>	56.0 dB(A)				
Efficiency (%)	25%				
	50%	49.0			
	75%	56.0			
	100%	59.0			
Power Factor	25%				
	50%	0.57			
	75%	0.66			
	100%	0.74			
Bearing type	: Drive end	Non drive end	Foundation loads		
Sealing	: Without	Without	Max. traction	: 2 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 10 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.</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

Single Phase Induction Motor - Squirrel Cage

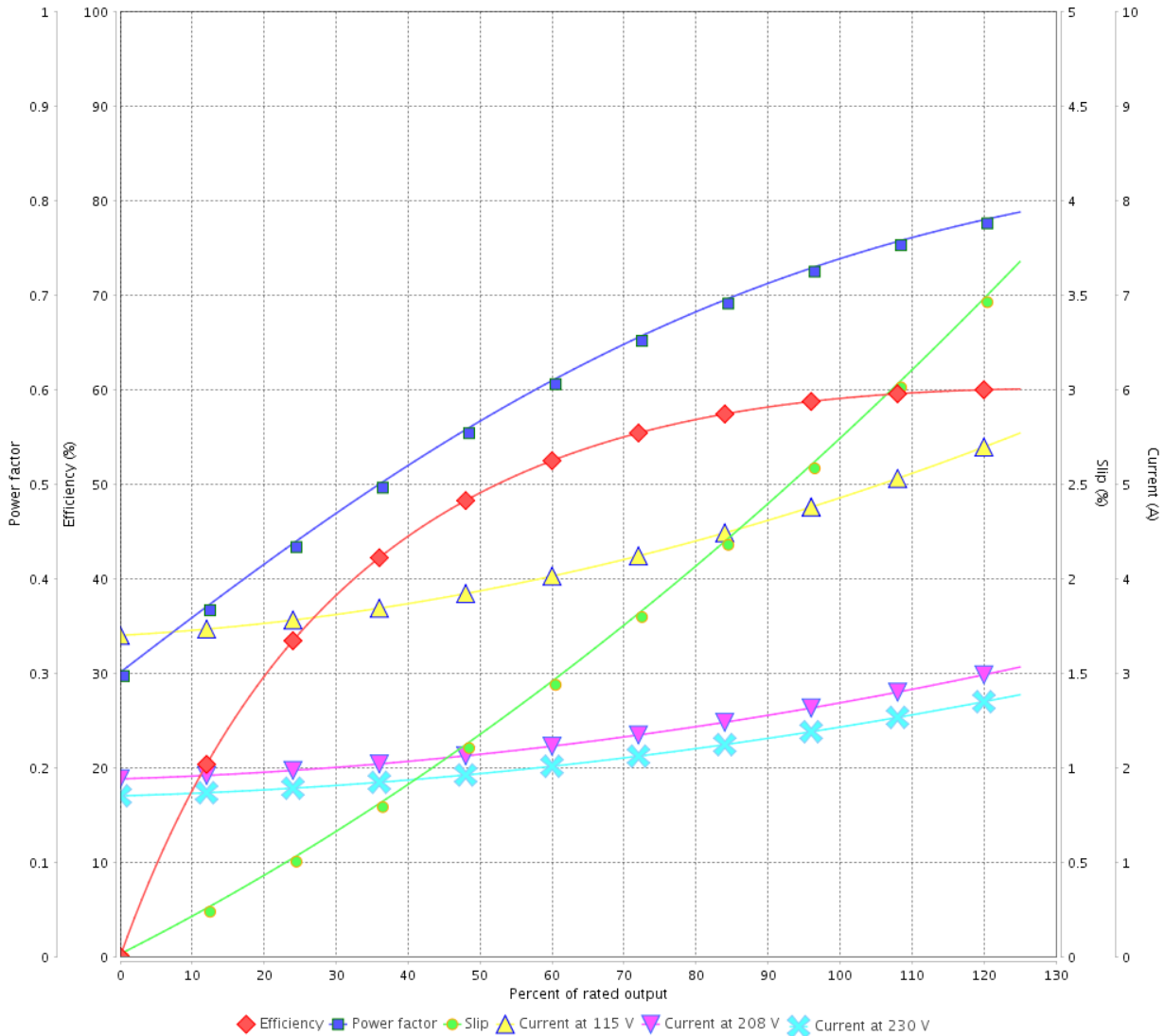


Customer :

Product line : Single-Phase

Product code : 13878029

LOAD PERFORMANCE CURVE



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

Rated current : 5.00/2.76-2.50 A  
 LRC : 7.4  
 Rated torque : 0.068 kgfm  
 Locked rotor torque : 300 %  
 Breakdown torque : 300 %  
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0008 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : N

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