

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: Single-Phase			
Product code :	13638769			
Frame	: W56C			
Insulation class	: F			
Duty cycle	: Cont.(S1)			
Ambient temperature	: -20°C to +40°C			
Altitude	: 1000 m.a.s.l.			
Protection degree	: IP55			
Design	: N			
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>	: 7.7 kg			
Moment of inertia (J)	: 0.0013 kgm <sup>2</sup>			
Output [HP]	0.25			
Poles	4			
Frequency [Hz]	60			
Rated voltage [V]	115/208-230			
Rated current [A]	4.60/2.54-2.30			
L. R. Amperes [A]	24.4/13.5-12.2			
LRC [A]	5.3x(Code N)			
No load current [A]	4.00/1.72-2.00			
Rated speed [RPM]	1735			
Slip [%]	3.61			
Rated torque [kgfm]	0.105			
Locked rotor torque [%]	310			
Breakdown torque [%]	280			
Service factor				
Temperature rise	80 K			
Locked rotor time	27s (cold) 15s (hot)			
Noise level <sup>2</sup>	52.0 dB(A)			
Efficiency (%)	25%	39.8		
	50%	43.0		
	75%	52.0		
	100%	57.0		
Power Factor	25%	0.25		
	50%	0.43		
	75%	0.52		
	100%	0.60		
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 : 13 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.				
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# LOAD PERFORMANCE CURVE

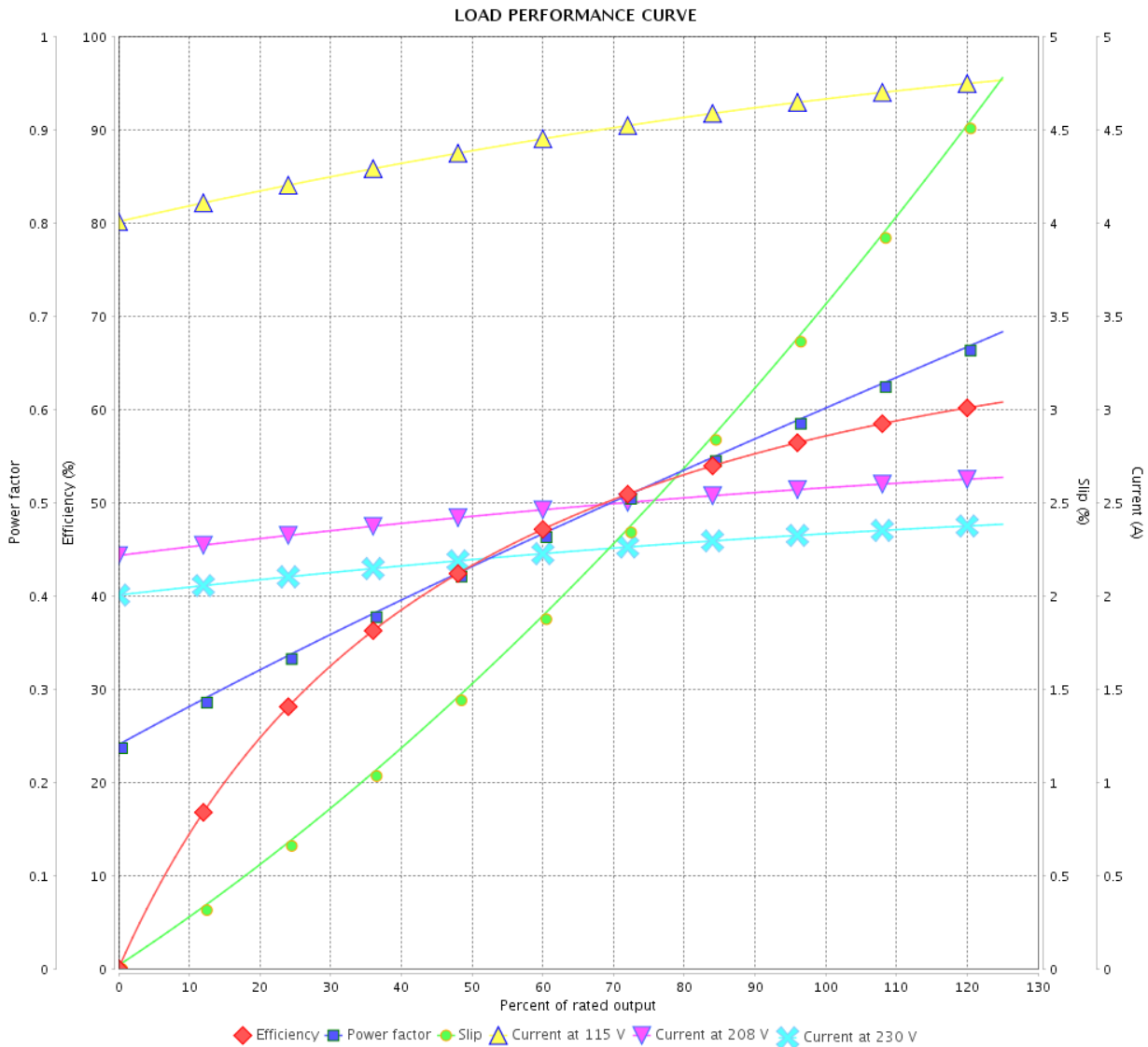
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Single-Phase

Product code : 13638769



Performance : 115/208-230 V 60 Hz 4P

Rated current : 4.60/2.54-2.30 A  
 LRC : 5.3  
 Rated torque : 0.105 kgfm  
 Locked rotor torque : 310 %  
 Breakdown torque : 280 %  
 Rated speed : 1735 rpm

Moment of inertia (J) : 0.0013 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : N

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