

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Single-Phase	Product code : 14133457		
Frame	: W56C	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> : 9.4 kg		
Protection degree	: IP55	Moment of inertia (J) : 0.0020 kgm <sup>2</sup>		
Design	: N			
Output [HP]		0.5		
Poles		4		
Frequency [Hz]		60		
Rated voltage [V]		115/208-230		
Rated current [A]		8.00/4.42-4.00		
L. R. Amperes [A]		45.6/25.2-22.8		
LRC [A]		5.7x(Code M)		
No load current [A]		6.60/2.85-3.30		
Rated speed [RPM]		1730		
Slip [%]		3.89		
Rated torque [kgfm]		0.210		
Locked rotor torque [%]		320		
Breakdown torque [%]		270		
Service factor				
Temperature rise		80 K		
Locked rotor time		18s (cold) 10s (hot)		
Noise level <sup>2</sup>		52.0 dB(A)		
Efficiency (%)	25%			
	50%	52.0		
	75%	59.0		
	100%	64.0		
Power Factor	25%			
	50%	0.44		
	75%	0.54		
	100%	0.63		
Bearing type	: <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads		
Sealing	: V'Ring V'Ring	Max. traction : 13 kgf		
Lubrication interval	: - -	Max. compression : 22 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>		
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	11/05/2022		1 / 2	

# LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

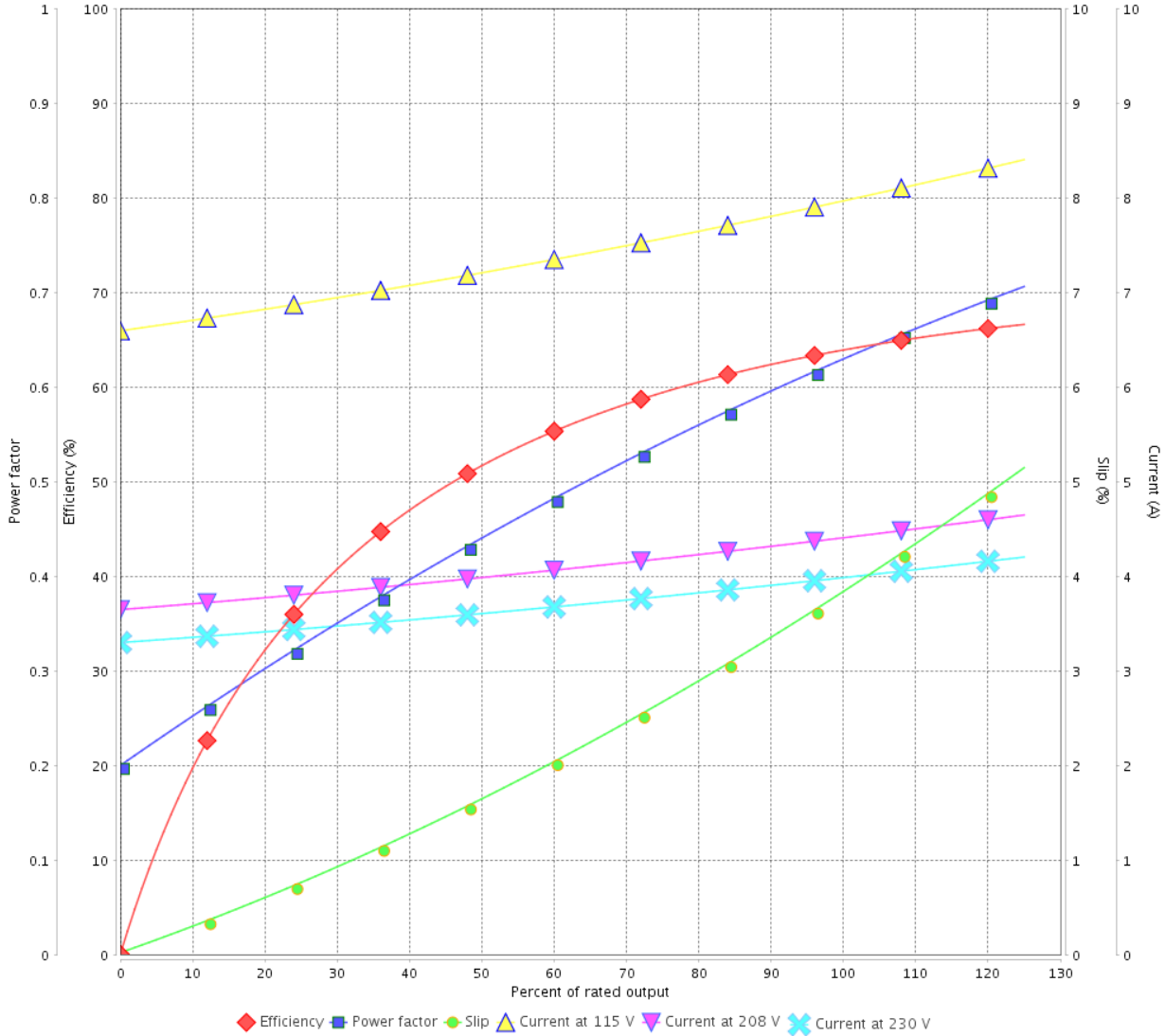


Customer :

Product line : Single-Phase

Product code : 14133457

LOAD PERFORMANCE CURVE



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

Rated current : 8.00/4.42-4.00 A  
 LRC : 5.7  
 Rated torque : 0.210 kgfm  
 Locked rotor torque : 320 %  
 Breakdown torque : 270 %  
 Rated speed : 1730 rpm

Moment of inertia (J) : 0.0020 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : N

Rev.	Changes Summary	Performed	Checked	Date
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