

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: Compressor Duty Single-Phase		Product code : 10970567	
Frame	: D56		Locked rotor time	: 10s (cold) 6s (hot)	
Output	: 1.5 HP (1.1 kW)		Temperature rise	: 80 K	
Poles	: 2		Duty cycle	: Cont.(S1)	
Frequency	: 60 Hz		Ambient temperature	: -20°C to +40°C	
Rated voltage	: 115/208-230 V		Altitude	: 1000 m.a.s.l.	
Rated current	: 16.8/9.20-8.40 A		Protection degree	: IP21	
L. R. Amperes	: 87.4/47.8-43.7 A		Cooling method	: IC01 - ODP	
LRC	: 5.2x(Code H)		Mounting	: F-1	
No load current	: 8.60/3.71-4.30 A		Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	: 3430 rpm		Starting method	: Direct On Line	
Slip	: 4.72 %		Approx. weight <sup>3</sup>	: 13.0 kg	
Rated torque	: 0.317 kgfm				
Locked rotor torque	: 200 %				
Breakdown torque	: 190 %				
Insulation class	: B				
Service factor	: 1.00				
Moment of inertia (J)	: 0.0018 kgm <sup>2</sup>				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	64.0	68.0	68.0	Max. traction : 12 kgf	
Power Factor	0.68	0.78	0.84	Max. compression : 25 kgf	
		<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6204 ZZ		6203 ZZ	
Sealing	:	Without Bearing Seal		Without Bearing Seal	
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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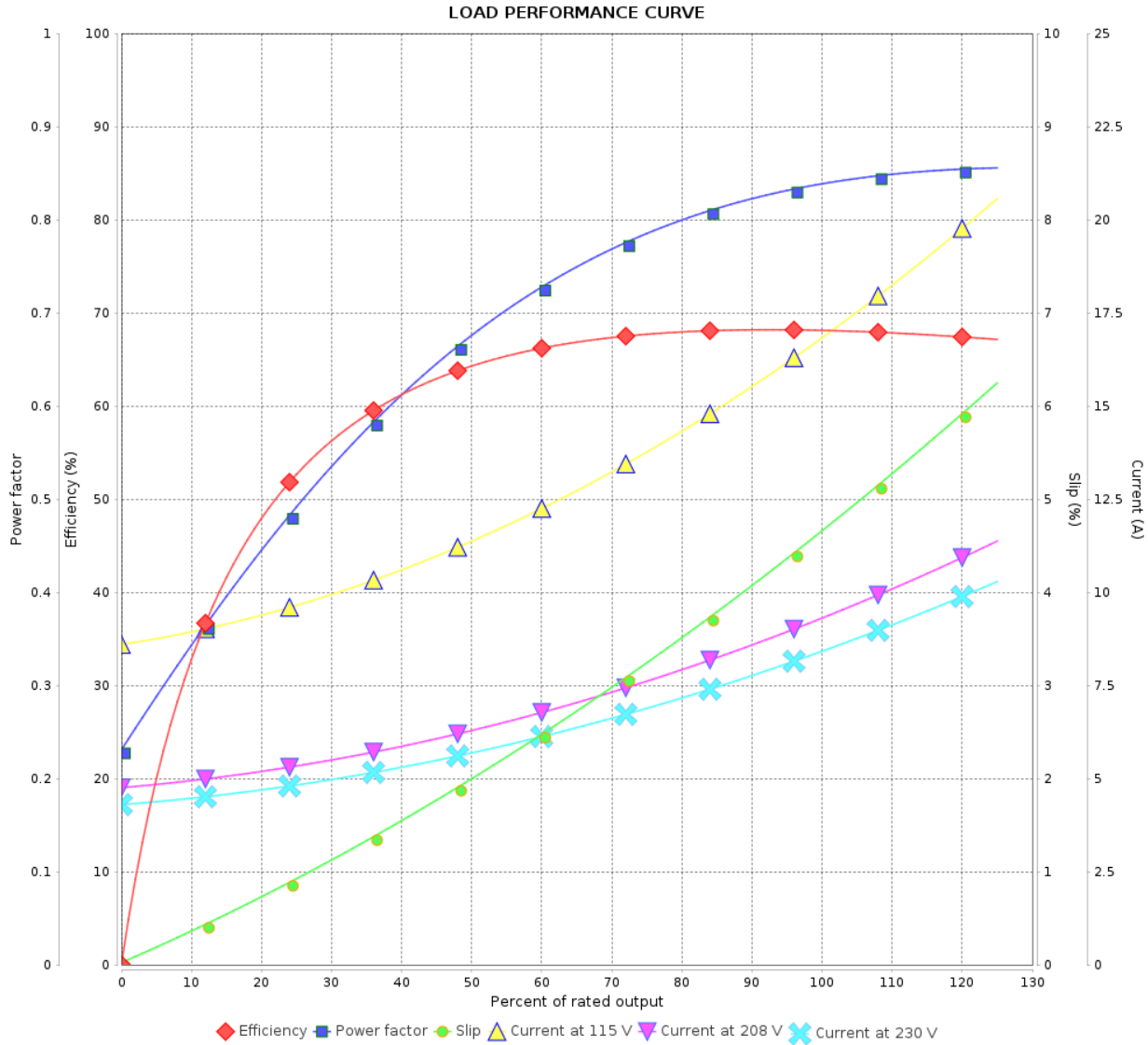
# LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Compressor Duty Single-Phase Product code : 10970567



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

Rated current : 16.8/9.20-8.40 A  
 LRC : 5.2  
 Rated torque : 0.317 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 190 %  
 Rated speed : 3430 rpm

Moment of inertia (J) : 0.0018 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : B  
 Service factor :  
 Temperature rise : 80 K

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