

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: Compressor Duty Single-Phase		Product code : 10698252	
Frame	:	F56H	Locked rotor time	: 10s (cold) 6s (hot)	
Output	:	3 HP (2.2 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	:	29.4/16.2-14.7 A	Protection degree	: IP21	
L. R. Amperes	:	176/97.2-88.2 A	Cooling method	: IC01 - ODP	
LRC	:	6.0x(Code H)	Mounting	: F-1	
No load current	:	13.0/5.60-6.50 A	Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	:	3440 rpm	Starting method	: Direct On Line	
Slip	:	4.44 %	Approx. weight <sup>3</sup>	: 19.3 kg	
Rated torque	:	0.633 kgfm			
Locked rotor torque	:	180 %			
Breakdown torque	:	190 %			
Insulation class	:	B			
Service factor	:	1.00			
Moment of inertia (J)	:	0.0028 kgm <sup>2</sup>			
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	76.0	77.0	77.0	Max. traction : 29 kgf	
Power Factor	0.70	0.80	0.86	Max. compression : 48 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>		
Rev.	Changes Summary		Performed	Checked	Date
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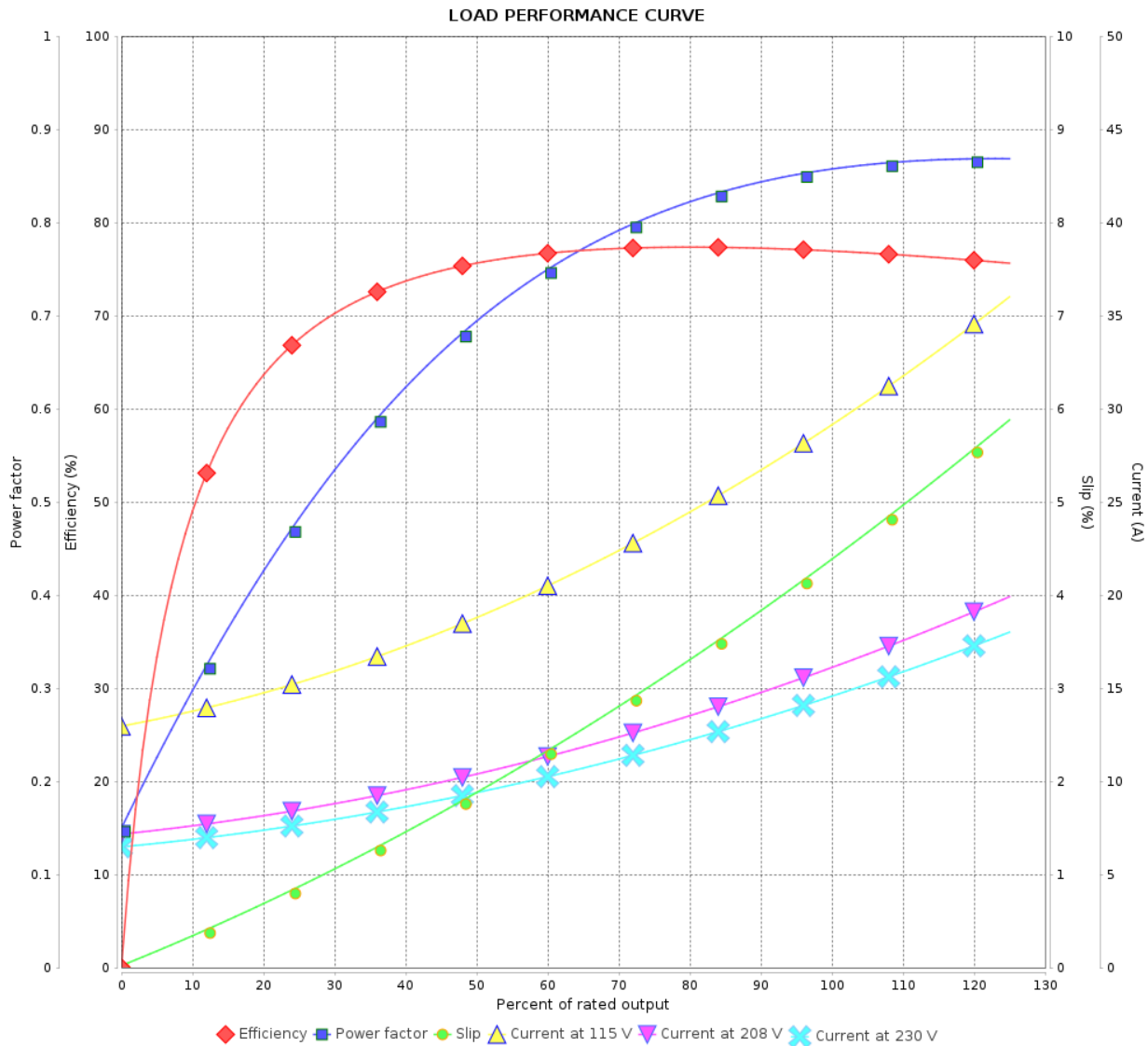
# LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Compressor Duty Single-Phase Product code : 10698252



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

Rated current : 29.4/16.2-14.7 A  
 LRC : 6.0  
 Rated torque : 0.633 kgfm  
 Locked rotor torque : 180 %  
 Breakdown torque : 190 %  
 Rated speed : 3440 rpm

Moment of inertia (J) : 0.0028 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : B  
 Service factor :  
 Temperature rise : 80 K

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