

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: Compressor Duty Single-Phase		Product code : 10021789	
Frame	: G56H	Locked rotor time	: 10s (cold) 6s (hot)		
Output	: 5 HP (3.7 kW)	Temperature rise	: 105 K		
Poles	: 2	Duty cycle	: Cont.(S1)		
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C		
Rated voltage	: 208-230 V	Altitude	: 1000 m.a.s.l.		
Rated current	: 21.0-19.1 A	Protection degree	: IP21		
L. R. Amperes	: 137-124 A	Cooling method	: IC01 - ODP		
LRC	: 6.5x(Code G)	Mounting	: F-1		
No load current	: 3.19-3.70 A	Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 3455 rpm	Starting method	: Direct On Line		
Slip	: 4.03 %	Approx. weight <sup>3</sup>	: 21.9 kg		
Rated torque	: 1.05 kgfm				
Locked rotor torque	: 220 %				
Breakdown torque	: 200 %				
Insulation class	: F				
Service factor	: 1.00				
Moment of inertia (J)	: 0.0030 kgm <sup>2</sup>				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	83.0	85.0	85.0	Max. traction : 56 kgf	
Power Factor	0.99	0.99	0.99	Max. compression : 78 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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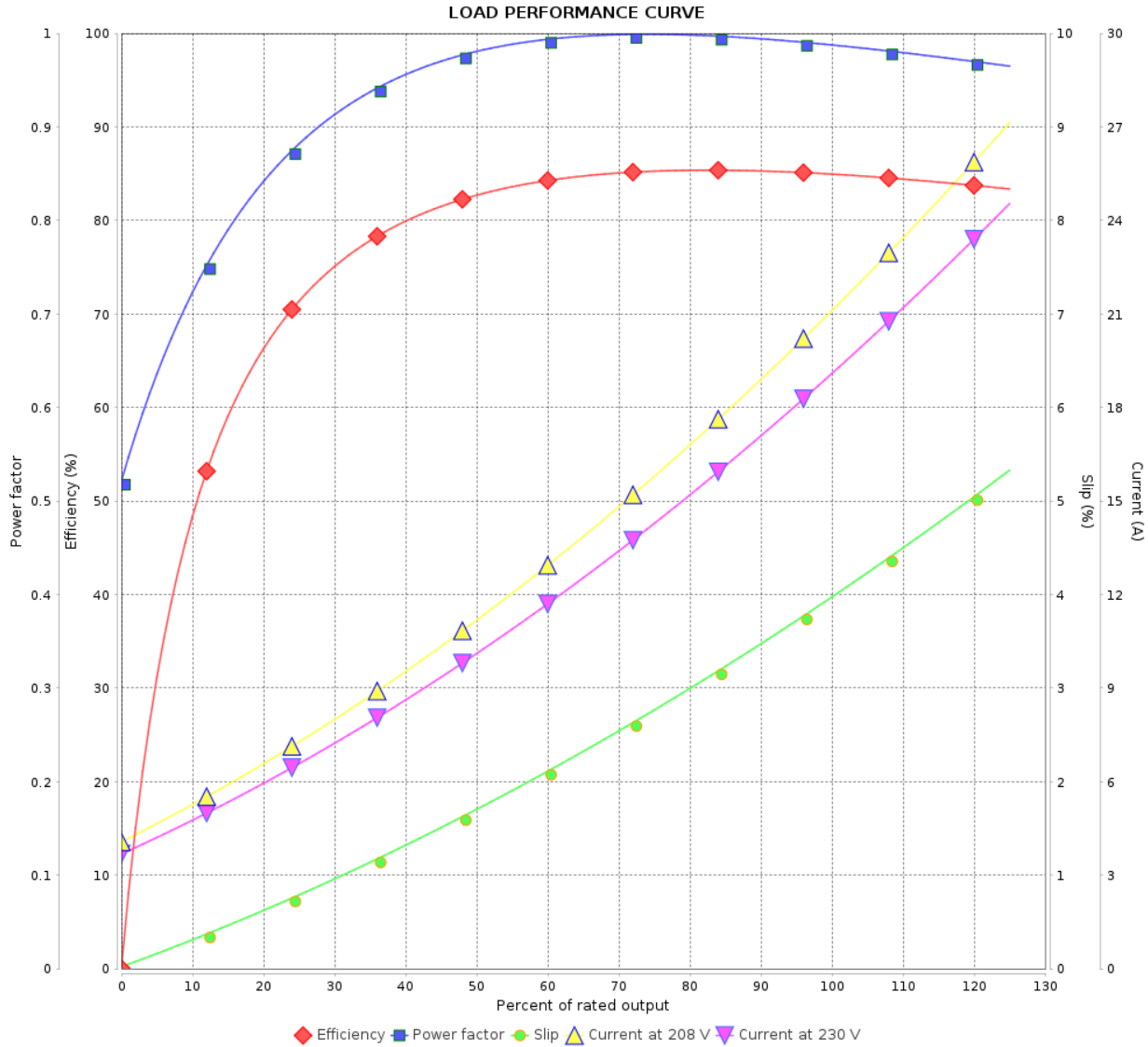
# LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : Compressor Duty Single-Phase      Product code : 10021789



Performance : 208-230 V 60 Hz 2P

Rated current : 21.0-19.1 A  
 LRC : 6.5  
 Rated torque : 1.05 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 200 %  
 Rated speed : 3455 rpm

Moment of inertia (J) : 0.0030 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 105 K

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Date	27/07/2024			