

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer					
Product line	: Jet Pump - J type Single-Phase	Product code	: 14581698		
Frame	: 56J	Cooling method	: IC01 - ODP		
Insulation class	: F	Mounting	: F-1		
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: CCW		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 13.8 kg		
Design	: N	Moment of inertia (J)	: 0.0023 kgm <sup>2</sup>		
Output [HP]	1				
Poles	2				
Frequency [Hz]	60				
Rated voltage [V]	115/208-230				
Rated current [A]	8.60/4.75-4.30				
L. R. Amperes [A]	72.2/39.9-36.1				
LRC [A]	8.4x(Code K)				
No load current [A]	2.60/1.12-1.30				
Rated speed [RPM]	3510				
Slip [%]	2.50				
Rated torque [kgfm]	0.207				
Locked rotor torque [%]	290				
Breakdown torque [%]	300				
Service factor					
Temperature rise	80 K				
Locked rotor time	28s (cold) 16s (hot)				
Noise level <sup>2</sup>	58.0 dB(A)				
Efficiency (%)	25%				
	50%	69.0			
	75%	76.0			
	100%	80.4			
Power Factor	25%				
	50%	0.89			
	75%	0.93			
	100%	0.94			
Bearing type	: <u>Drive end</u> 6203 2RS	<u>Non drive end</u> 6202 2RS	Foundation loads		
Sealing	: Without	Without	Max. traction	: 13 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 26 kgf	
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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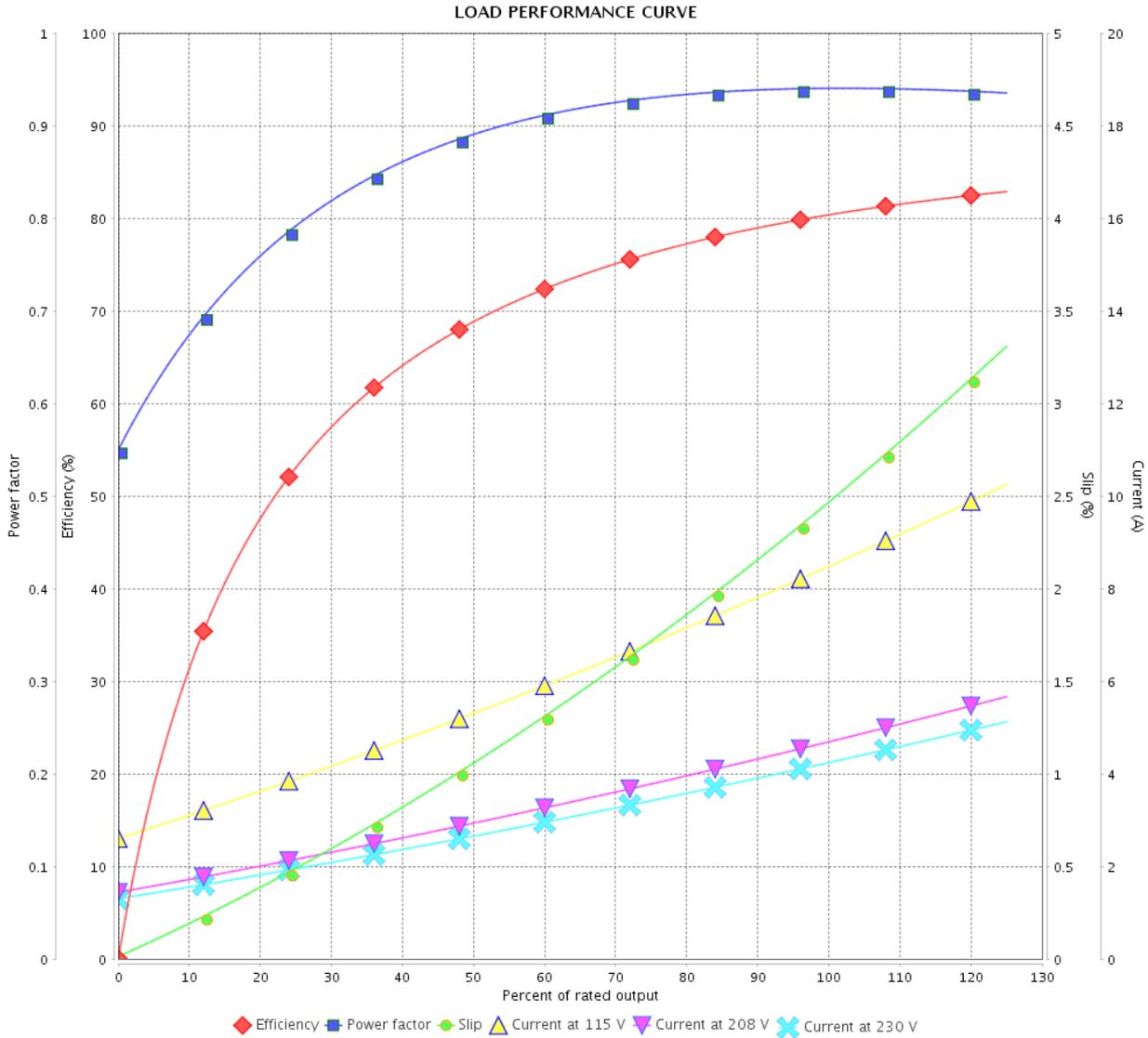
# LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Single-Phase Product code : 14581698



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

Rated current	: 8.60/4.75-4.30 A	Moment of inertia (J)	: 0.0023 kgm <sup>2</sup>
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.207 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	:
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: N

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