

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: Jet Pump - J type Single-Phase	Product code : 13997409	
Frame	: W56J	Cooling method	: IC411 - TEFC	
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>	: 9.3 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	: Drive end 6203 2RS Non drive end 6202 2RS	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				
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.		These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
Rev.	Changes Summary		Performed	Checked
Performed by				
Checked by				
Date	16/05/2022		Page 1 / 2	Revision

# LOAD PERFORMANCE CURVE

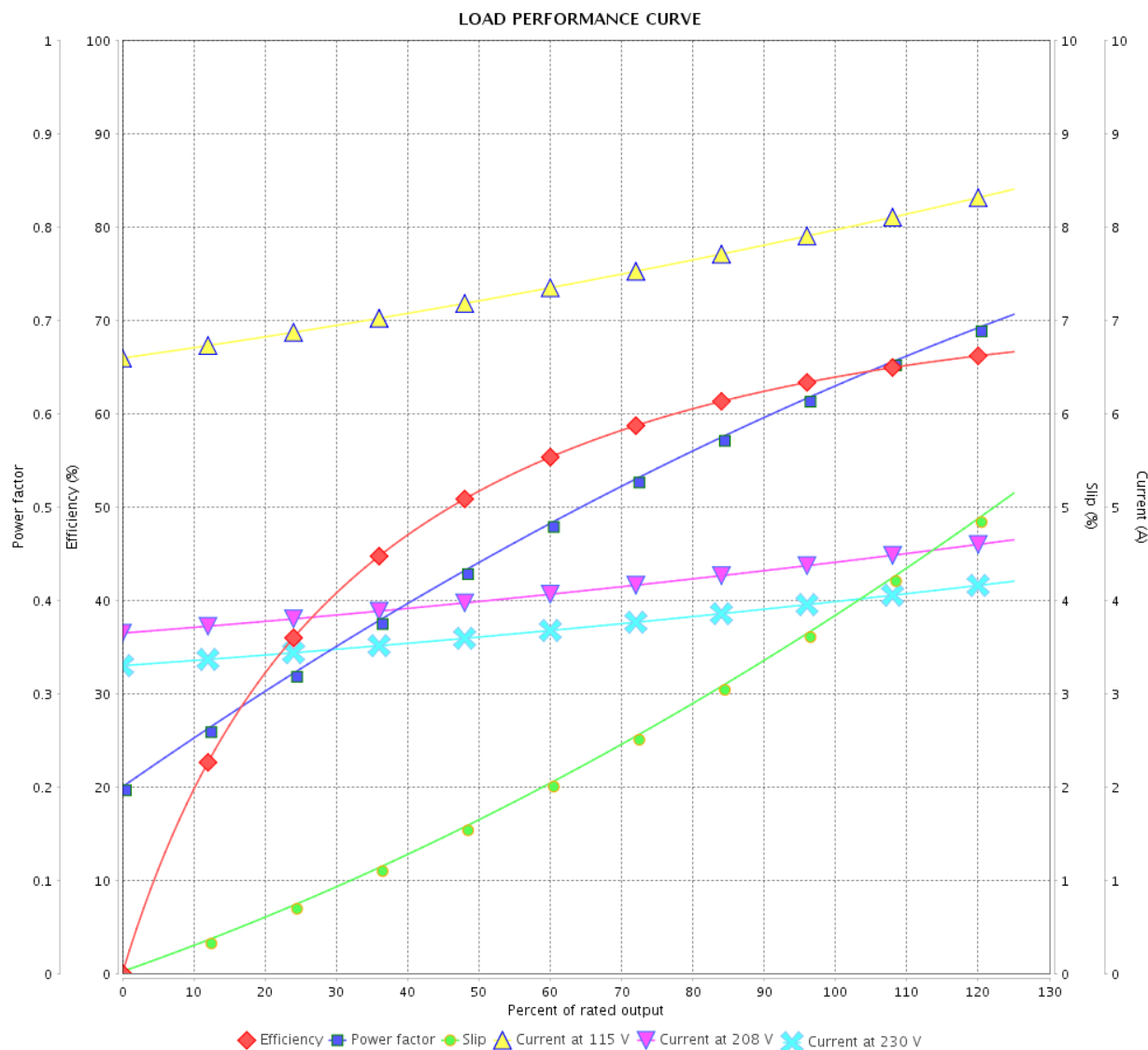
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Single-Phase

Product code : 13997409



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

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