

# DATA SHEET

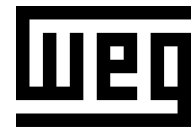
## Single Phase Induction Motor - Squirrel Cage



Customer					
Product line	: Jet Pump - J type Single-Phase	Product code	: 14313605		
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>	: 12.2 kg		
Design	: N	Moment of inertia (J)	: 0.0020 kgm <sup>2</sup>		
Output [HP]	1				
Poles	2				
Frequency [Hz]	60				
Rated voltage [V]	115/208-230				
Rated current [A]	12.8/7.08-6.40				
L. R. Amperes [A]	88.3/48.9-44.2				
LRC [A]	6.9x(Code M)				
No load current [A]	8.40/3.62-4.20				
Rated speed [RPM]	3500				
Slip [%]	2.78				
Rated torque [kgfm]	0.207				
Locked rotor torque [%]	260				
Breakdown torque [%]	280				
Service factor					
Temperature rise	80 K				
Locked rotor time	14s (cold) 8s (hot)				
Noise level <sup>2</sup>	58.0 dB(A)				
Efficiency (%)	25%				
	50%	60.0			
	75%	65.0			
	100%	68.0			
Power Factor	25%				
	50%	0.55			
	75%	0.67			
	100%	0.75			
Bearing type	: <u>Drive end</u> 6203 2RS	<u>Non drive end</u> 6202 2RS	Foundation loads		
Sealing	: Without	Without	Max. traction	: 12 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 24 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
Performed by					
Checked by				Page	Revision
Date	17/05/2022			1 / 2	

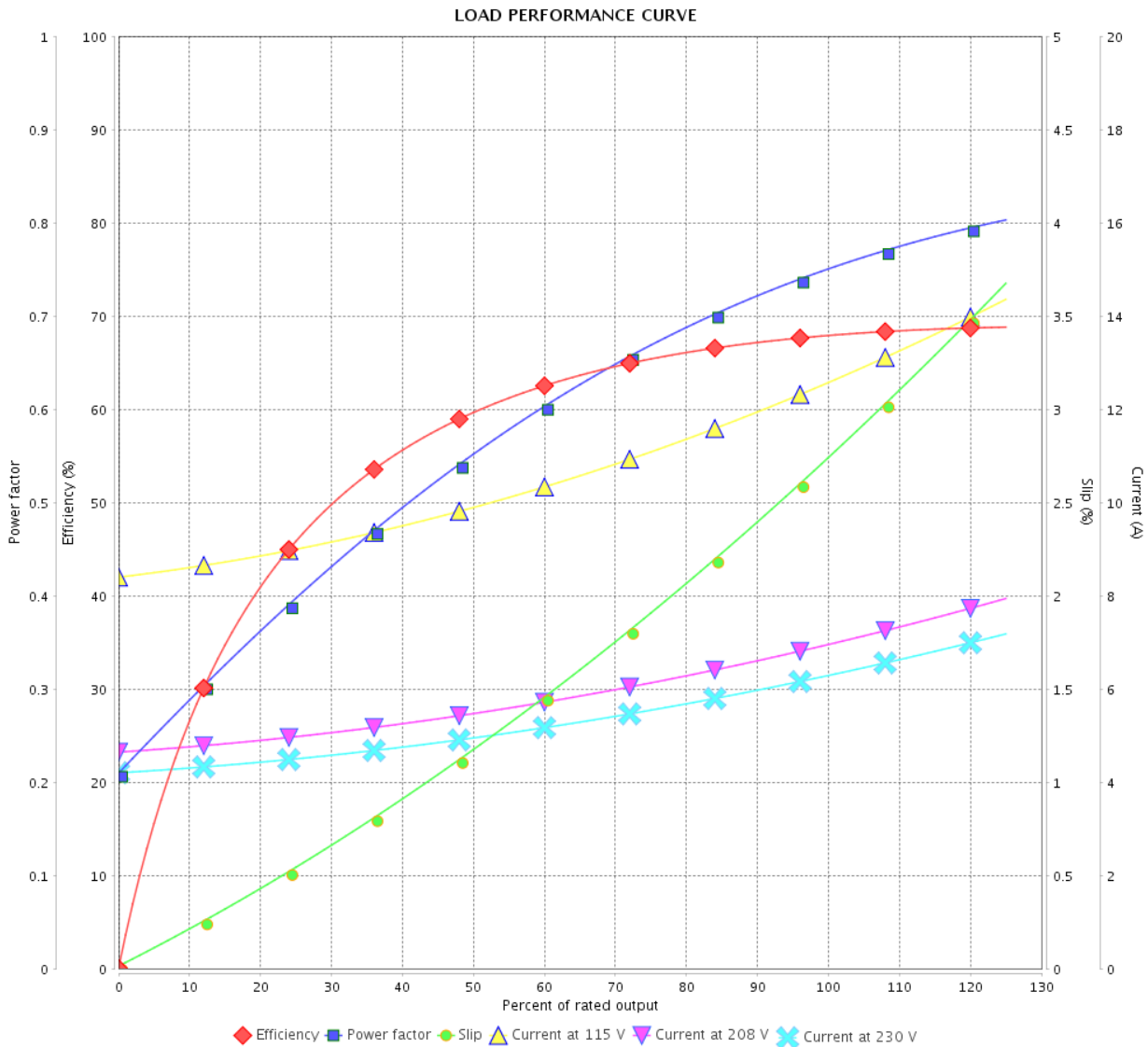
# LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Single-Phase Product code : 14313605

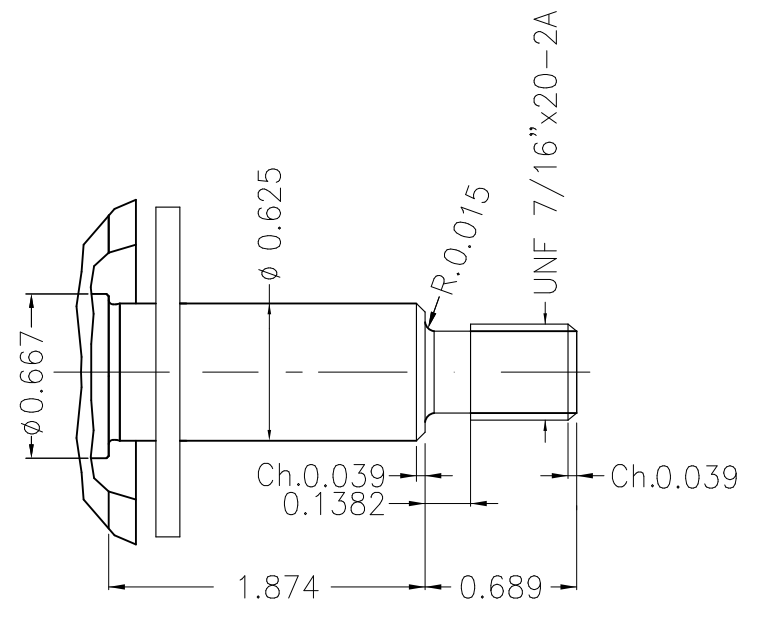
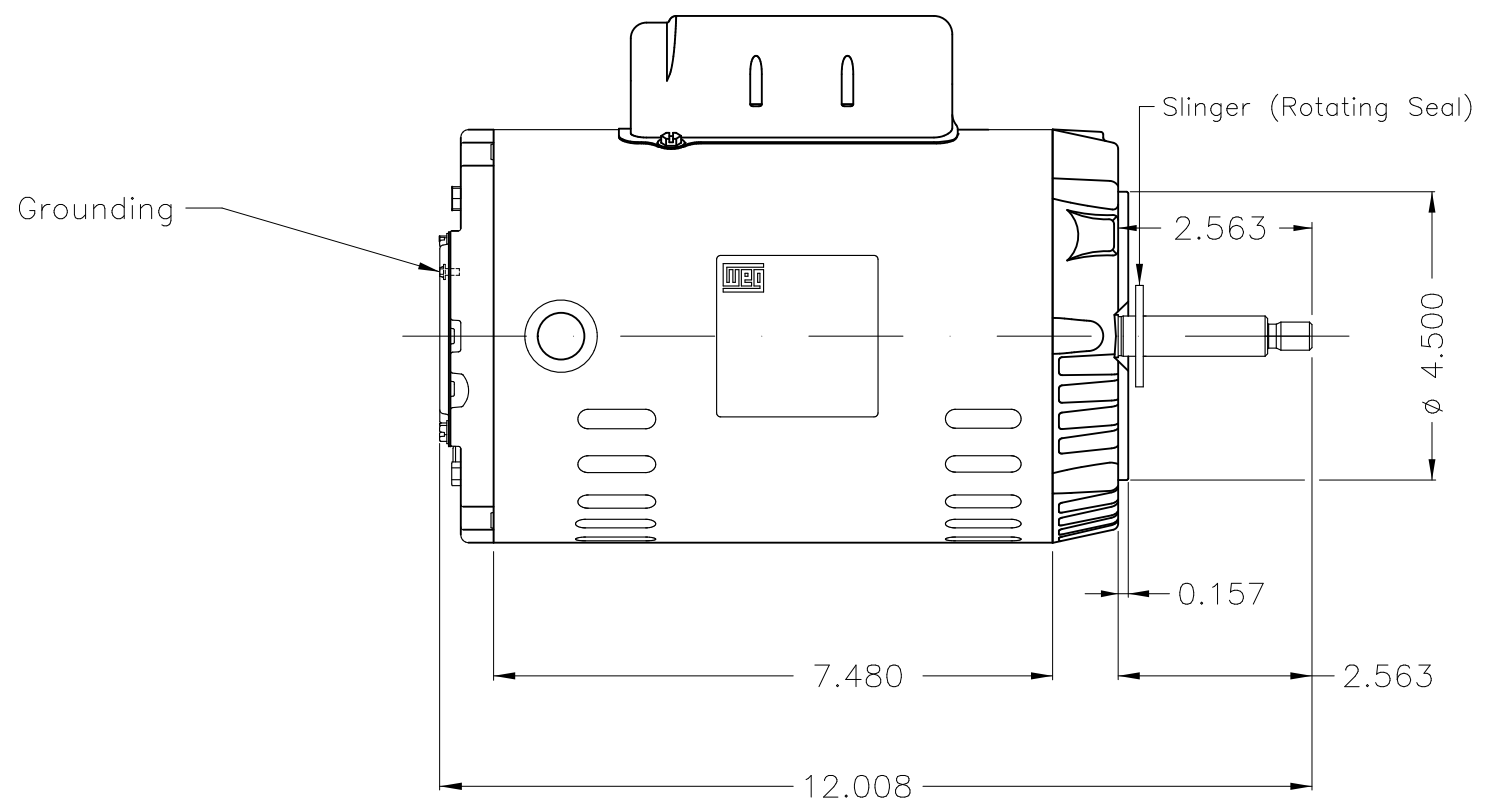
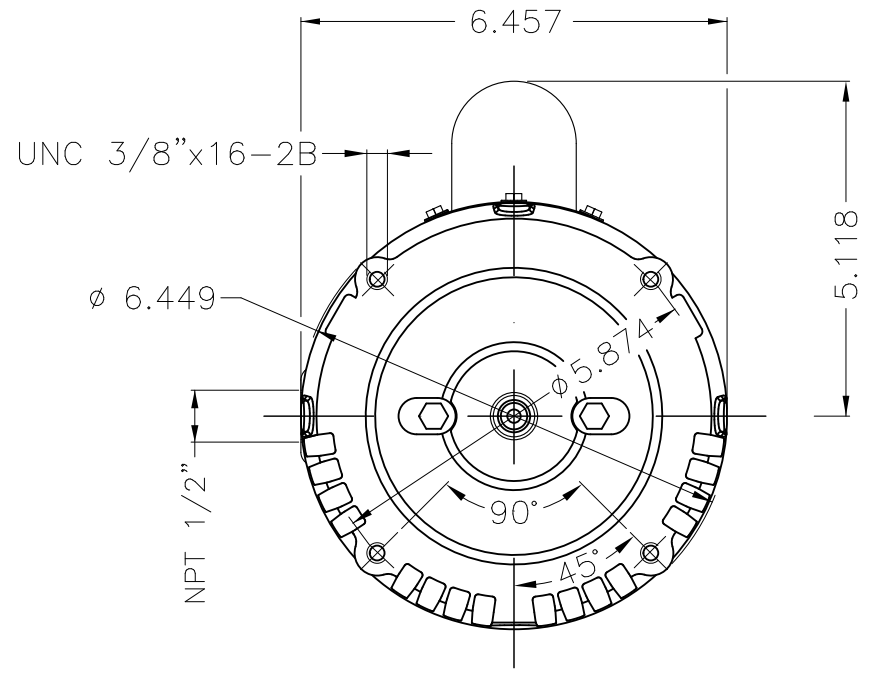


Performance : 115/208-230 V 60 Hz 2P

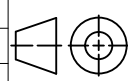

Rated current : 12.8/7.08-6.40 A  
 LRC : 6.9  
 Rated torque : 0.207 kgfm  
 Locked rotor torque : 260 %  
 Breakdown torque : 280 %  
 Rated speed : 3500 rpm

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	17/05/2022			



Color Munsell N 1 matte black  
 Painting plan 207N  
 Mounting F-1/B14R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	 SINGLE PH. MOTOR ROLLED STEEL JET PUMP THREADED FRAME 56J IP21 ODP					
CHECKED							
RELEASED							
REL. DATE		WMO Jaragua do Sul	Product Engineering	<b>PREVIEW</b> WDD 00			

1 HP 02 Poles 60 Hz