

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Jet Pump - J type Single-Phase	Product code : 13608552		
Frame	: 56J	Cooling method : IC411 - TEFC		
Insulation class	: F	Mounting : F-1		
Duty cycle	: Cont.(S1)	Rotation ¹ : CCW		
Ambient temperature	: -20°C to +40°C	Starting method : Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight ³ : 15.2 kg		
Protection degree	: IP55	Moment of inertia (J) : 0.0025 kgm ²		
Design	: L			
Output [HP]		1.5		
Poles		2		
Frequency [Hz]		60		
Rated voltage [V]		115/208-230		
Rated current [A]		13.2/7.30-6.60		
L. R. Amperes [A]		106/58.4-52.8		
LRC [A]		8.0x(Code K)		
No load current [A]		4.60/1.98-2.30		
Rated speed [RPM]		3500		
Slip [%]		2.78		
Rated torque [kgfm]		0.311		
Locked rotor torque [%]		240		
Breakdown torque [%]		250		
Service factor				
Temperature rise		80 K		
Locked rotor time		12s (cold) 7s (hot)		
Noise level ²		68.0 dB(A)		
Efficiency (%)	25%	64.0		
	50%	66.0		
	75%	73.0		
	100%	75.0		
Power Factor	25%	0.63		
	50%	0.92		
	75%	0.95		
	100%	0.97		
Bearing type	: Drive end : 6203 2RS Non drive end : 6202 2RS	Foundation loads		
Sealing	: V'Ring Without Bearing Seal	Max. traction : 17 kgf		
Lubrication interval	: - -	Max. compression : 32 kgf		
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	11/05/2022		1 / 2	

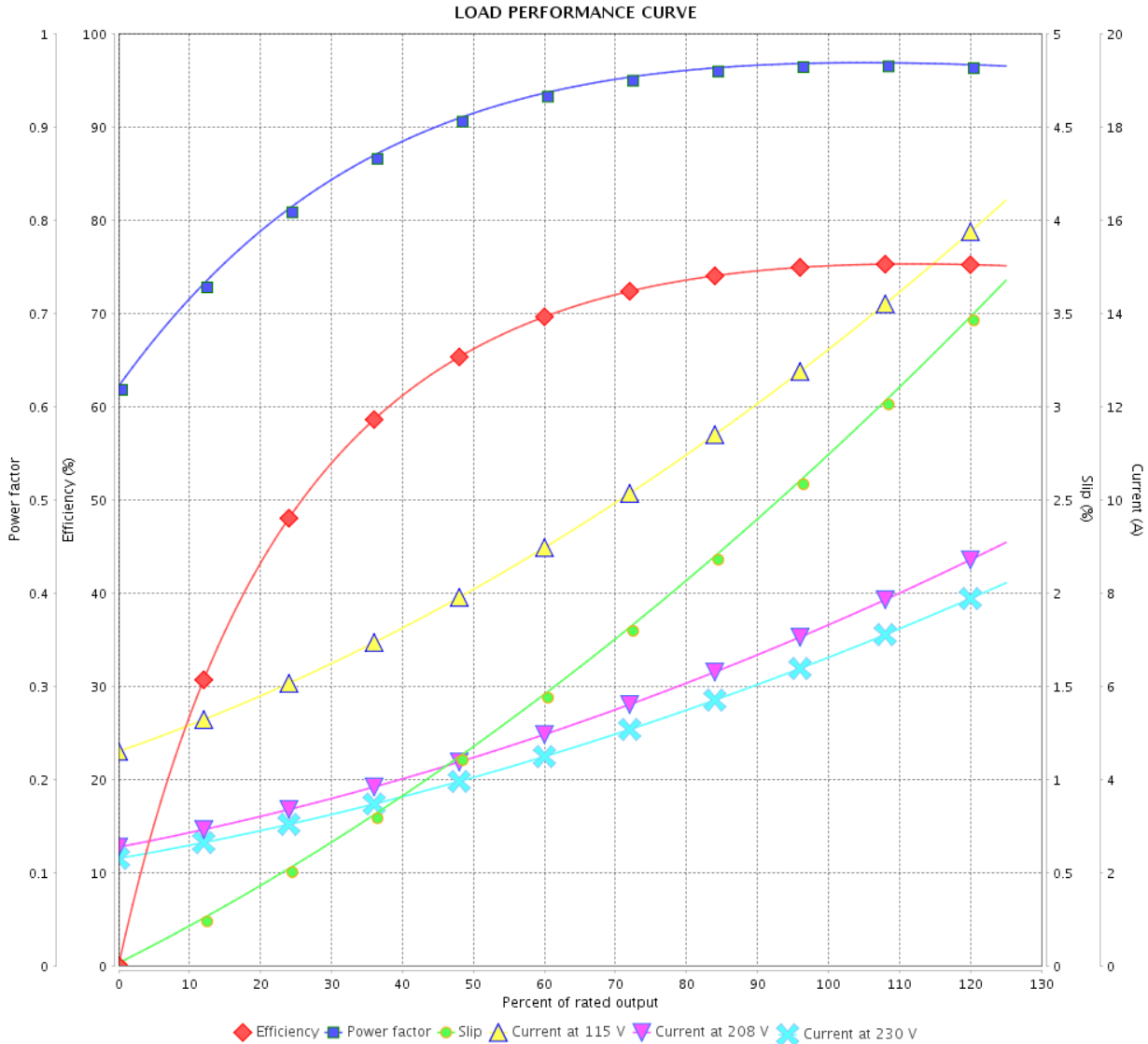
LOAD PERFORMANCE CURVE

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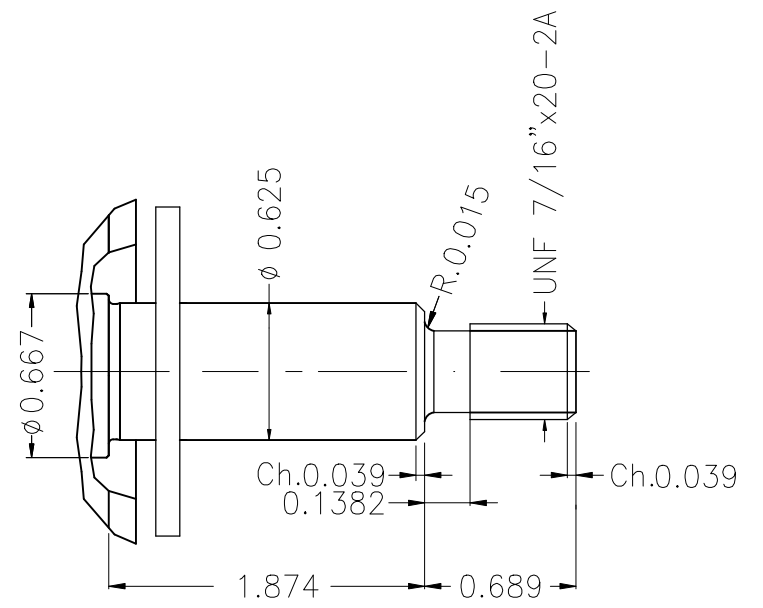
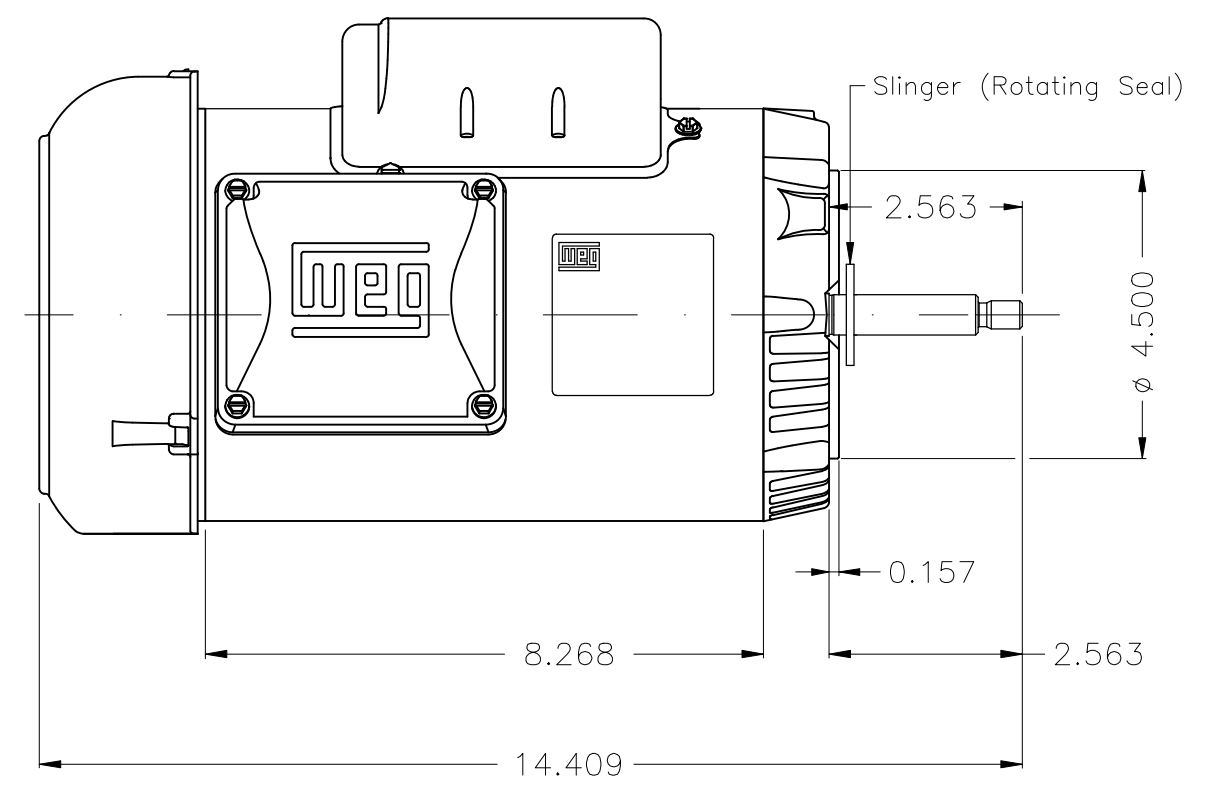
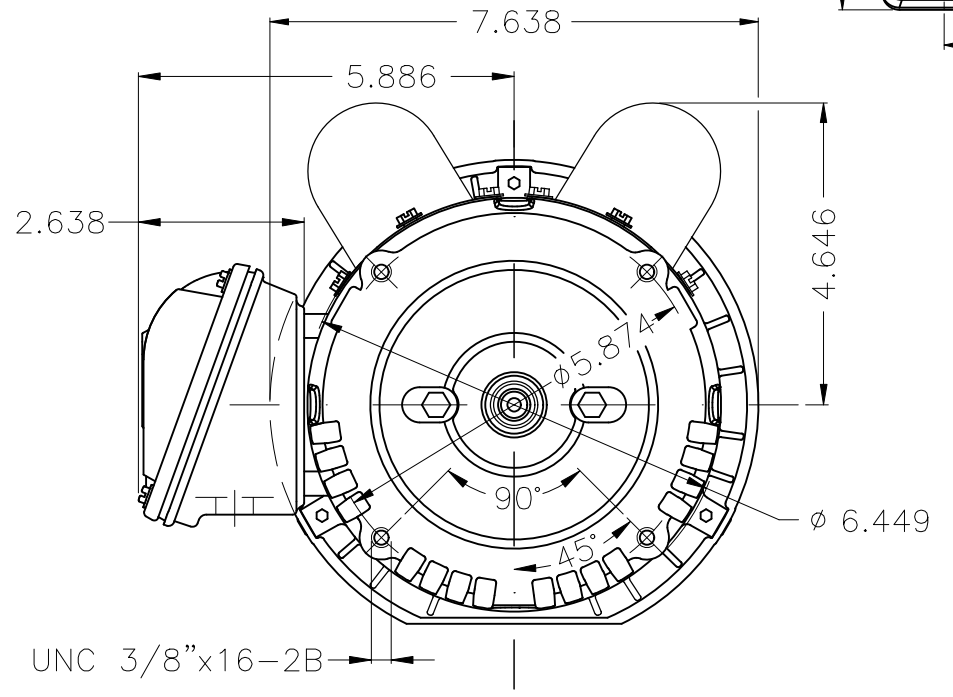
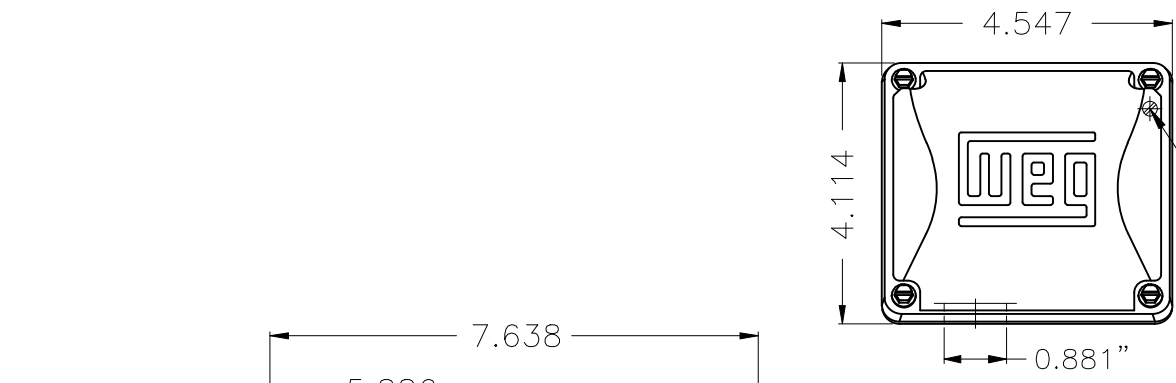


Performance : 115/208-230 V 60 Hz 2P

Rated current : 13.2/7.30-6.60 A
 LRC : 8.0
 Rated torque : 0.311 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 250 %
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0025 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : L

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	11/05/2022			



Color Munsell N 1 matte black						
Painting plan 207N						
Mounting F-1/B14R(D)						
					HYBRISUSER	00
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED
EXECUTED	HYBRISUSER	SINGLE PH. MOTOR ROLLED STEEL JET PUMP THREADED				
CHECKED		FRAME 56J IP55 TEFC				
RELEASED						
REL. DATE		WMO	Jaragua do Sul	Product Engineering	WDD	00
				SHEET	1 / 1	

1.5 HP 02 Poles 60 Hz

A

