

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer	:				
Product line	: Jet Pump - J type Single-Phase	Product code :	13710803		
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	: 13.0 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0020 kgm ²		
Design	: N				
Output [HP]	1				
Poles	2				
Frequency [Hz]	60				
Rated voltage [V]	115/208-230				
Rated current [A]	10.1/5.64-5.06				
L. R. Amperes [A]	85.0/47.4-42.5				
LRC [A]	8.4x(Code L)				
No load current [A]	5.50/2.37-2.75				
Rated speed [RPM]	3500				
Slip [%]	2.78				
Rated torque [kgfm]	0.207				
Locked rotor torque [%]	280				
Breakdown torque [%]	280				
Service factor					
Temperature rise	80 K				
Locked rotor time	14s (cold) 8s (hot)				
Noise level ²	68.0 dB(A)				
Efficiency (%)	25%	51.0			
	50%	55.0			
	75%	64.0			
	100%	70.0			
Power Factor	25%	0.51			
	50%	0.82			
	75%	0.88			
	100%	0.92			
Bearing type	: Drive end	6203 2RS	Non drive end	6202 2RS	
Sealing	: V'Ring		Without	Bearing Seal	
Lubrication interval	: -		-		
Lubricant amount	: -		-		
Lubricant type	: Mobil Polyrex EM				
Foundation loads			Max. traction	: 12 kgf	
			Max. compression	: 25 kgf	
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	Date
Performed by					
Checked by				Page	Revision
Date	11/05/2022			1 / 2	

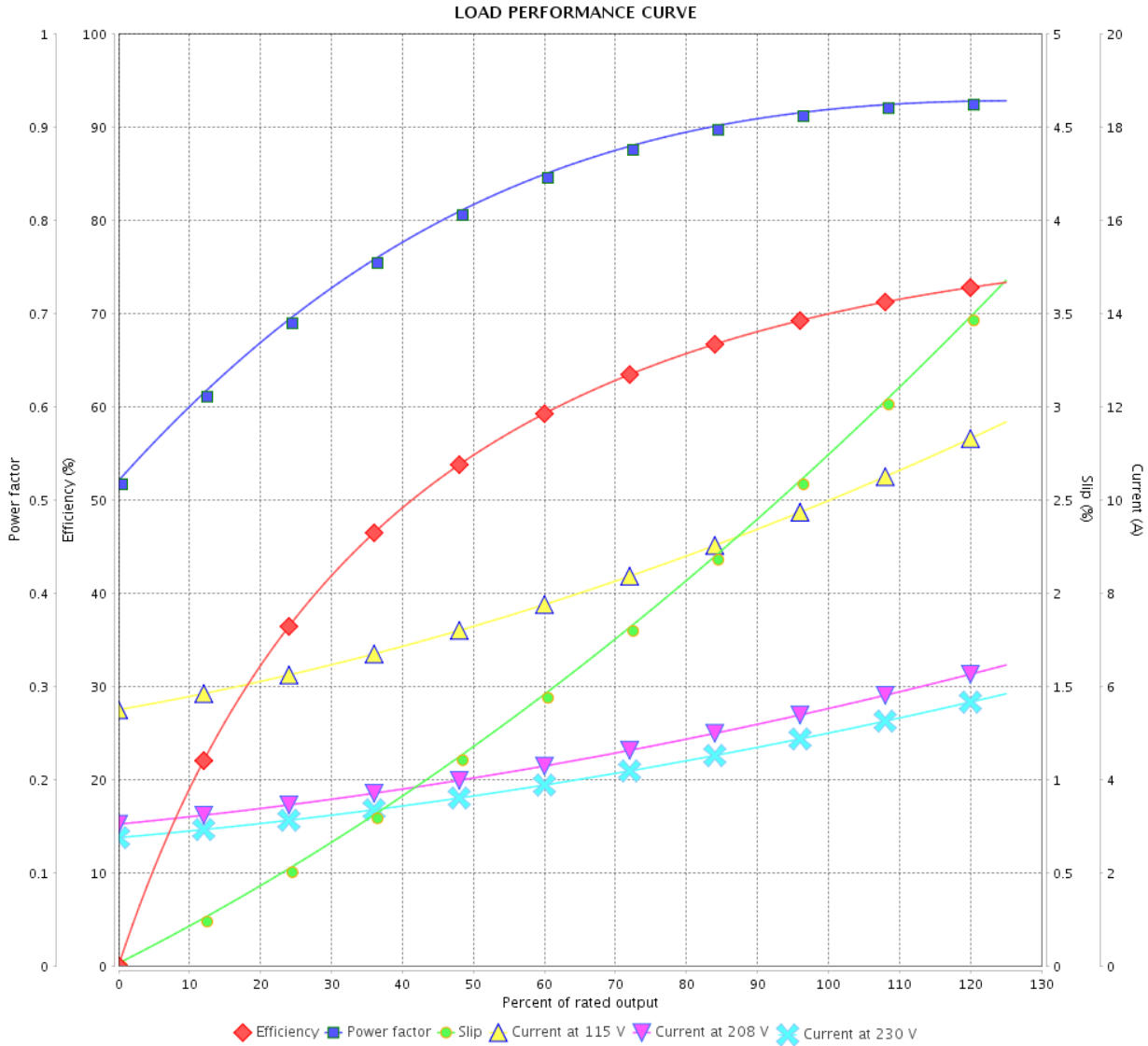
LOAD PERFORMANCE CURVE

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Customer :

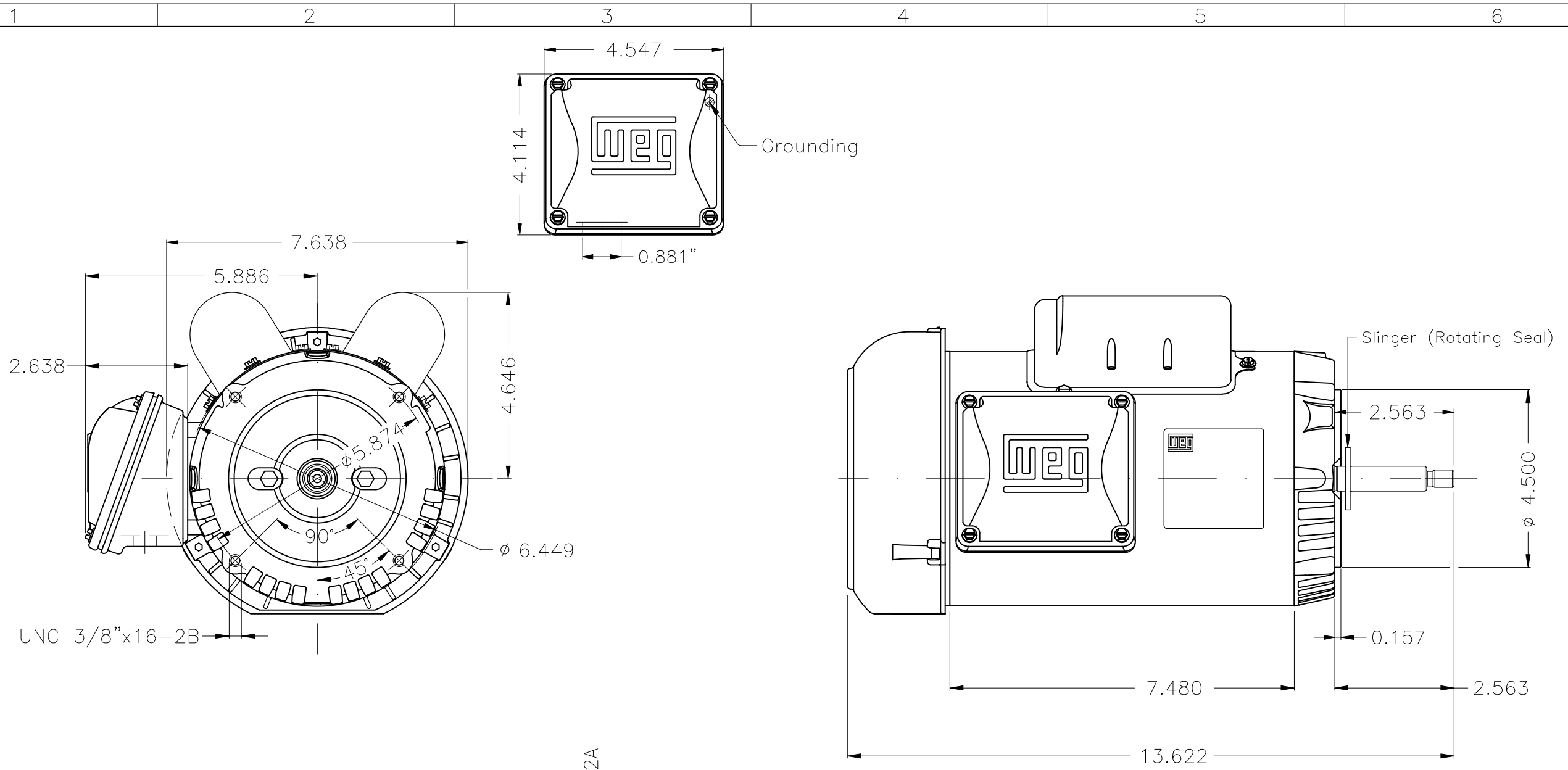
Product line : Jet Pump - J type Single-Phase Product code : 13710803



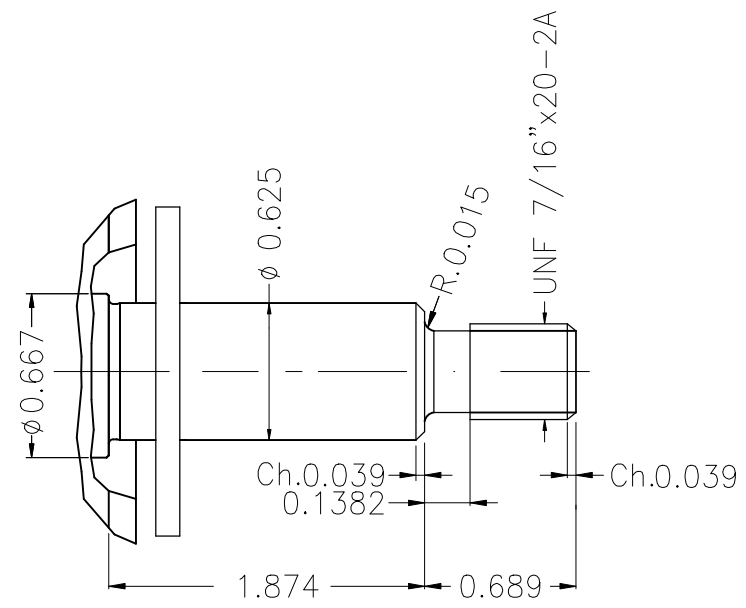
Performance : 115/208-230 V 60 Hz 2P

Rated current	: 10.1/5.64-5.06 A	Moment of inertia (J)	: 0.0020 kgm ²
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.207 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	:
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 3500 rpm	Design	: N

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UNC 3/8"x16-2B



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 IP55 TEFC					00
CHECKED							
RELEASED							
REL. DATE	WMO	Jaragua do Sul	Product Engineering	WDD	00		

1 HP 02 Poles 60 Hz

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