

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					
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					
Date	11/05/2022			Page 1 / 2	Revision

LOAD PERFORMANCE CURVE

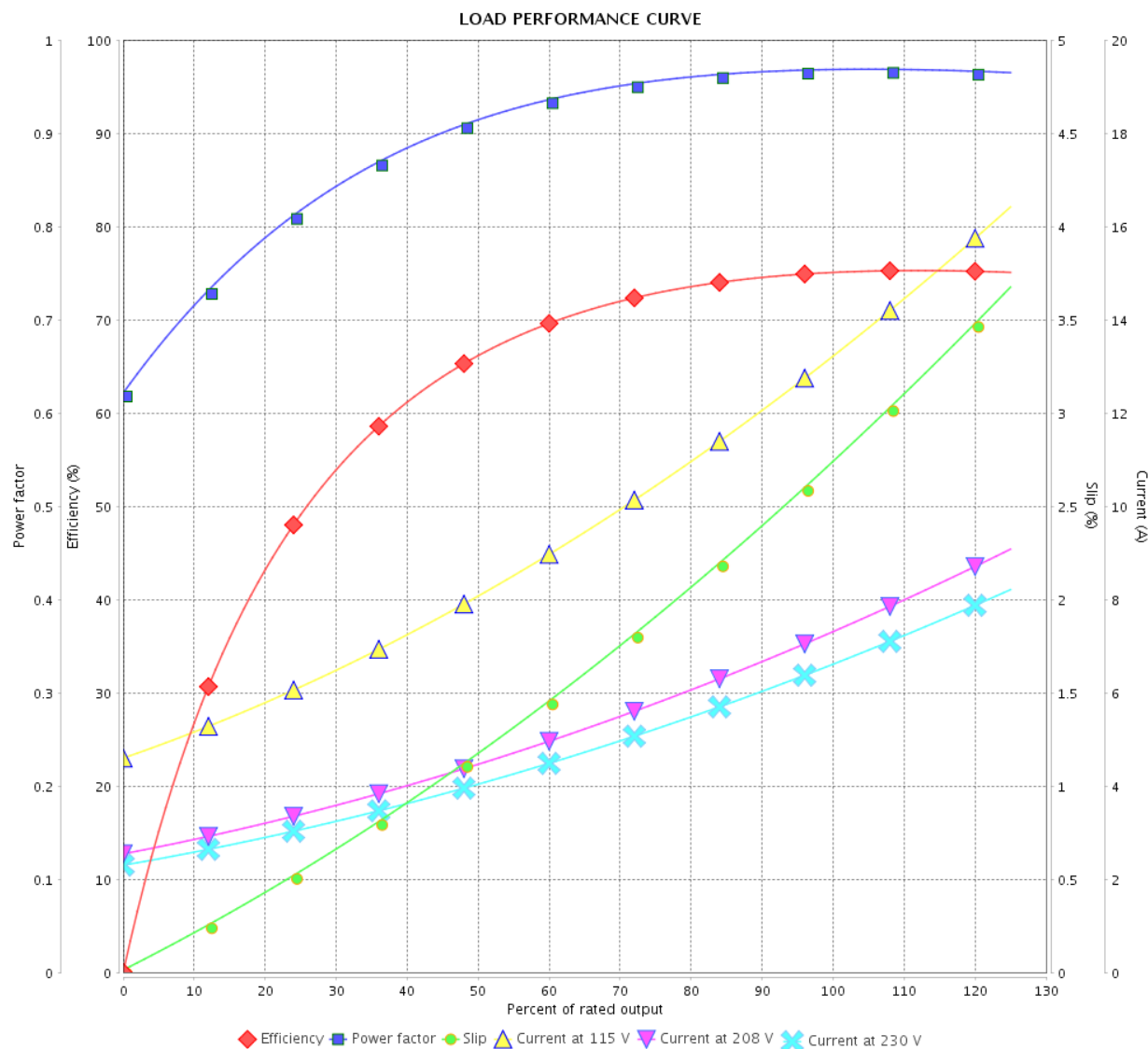
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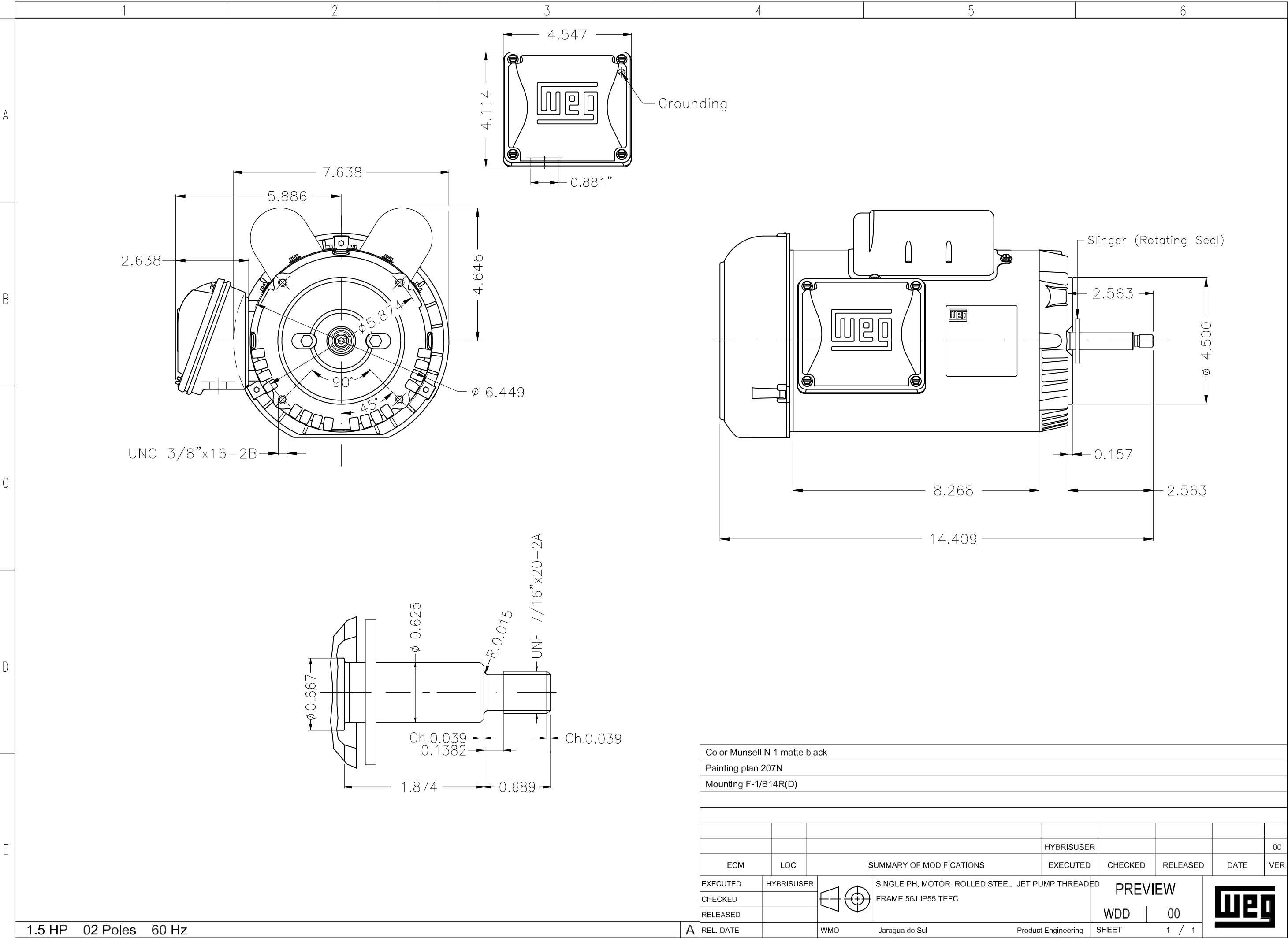


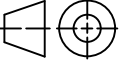

Performance : 115/208-230 V 60 Hz 2P

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
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Date					



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