

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: Jet Pump - J type Single-Phase	Product code :	13905943
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	: 11.6 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0017 kgm ²	
Design	: N			
Output [HP]	0.75			
Poles	2			
Frequency [Hz]	60			
Rated voltage [V]	115/208-230			
Rated current [A]	8.00/4.42-4.00			
L. R. Amperes [A]	64.0/35.4-32.0			
LRC [A]	8.0x(Code L)			
No load current [A]	4.00/1.72-2.00			
Rated speed [RPM]	3500			
Slip [%]	2.78			
Rated torque [kgfm]	0.156			
Locked rotor torque [%]	280			
Breakdown torque [%]	290			
Service factor				
Temperature rise	80 K			
Locked rotor time	18s (cold) 10s (hot)			
Noise level ²	68.0 dB(A)			
Efficiency (%)	25%			
	50%	52.0		
	75%	62.0		
	100%	66.0		
Power Factor	25%			
	50%	0.81		
	75%	0.87		
	100%	0.91		
Bearing type	: Drive end 6203 2RS Non drive end 6202 2RS	Foundation loads		
Sealing	: V'Ring V'Ring	Max. traction	: 8 kgf	
Lubrication interval	: - -	Max. compression	: 20 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			Page	Revision
Checked by				
Date	11/05/2022			
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LOAD PERFORMANCE CURVE

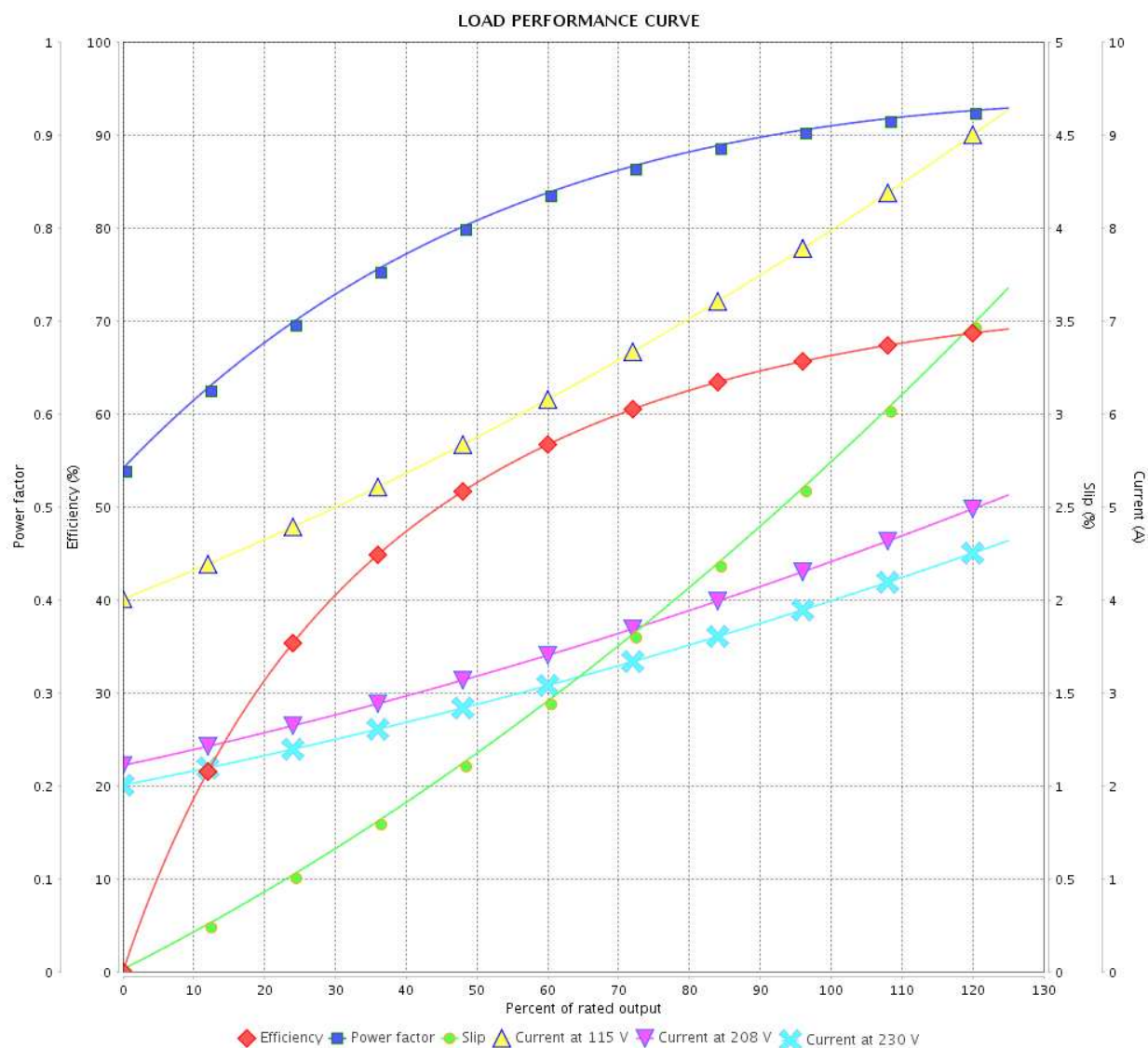
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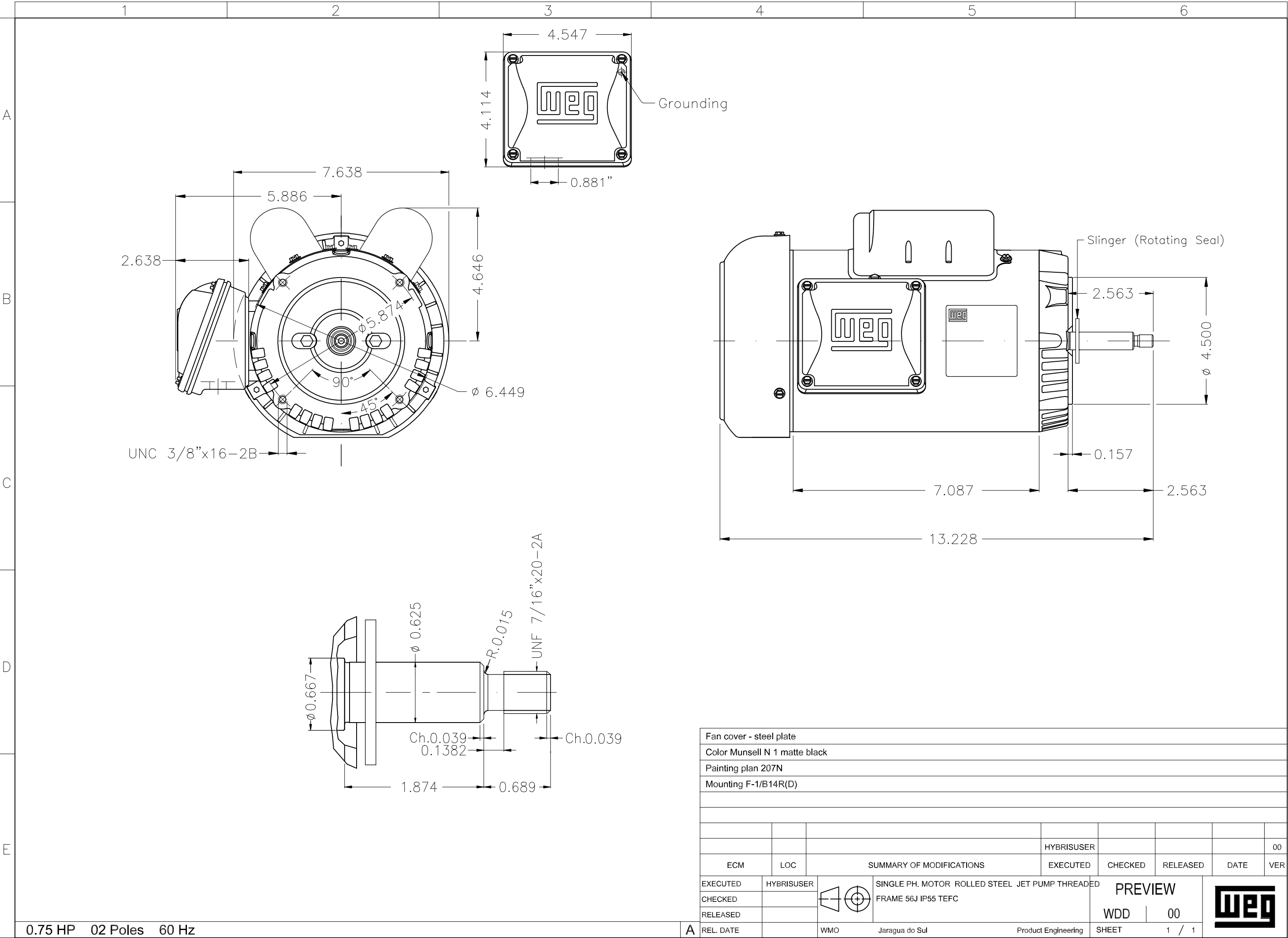


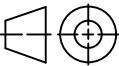
Performance : 115/208-230 V 60 Hz 2P

Rated current : 8.00/4.42-4.00 A
LRC : 8.0
Rated torque : 0.156 kgfm
Locked rotor torque : 280 %
Breakdown torque : 290 %
Rated speed : 3500 rpm

Moment of inertia (J) : 0.0017 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor :
Temperature rise : 80 K
Design : N

Rev.	Changes Summary	Performed	Checked	Date
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Fan cover - steel plate									
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			PREVIEW			
CHECKED			FRAME 56J IP55 TEFC						
RELEASED									
REL. DATE			WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1		