

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 ¹	: CCW	
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line	
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 12.2 kg	
Design	: N	Moment of inertia (J)	: 0.0020 kgm ²	
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 ²	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	: Drive end 6203 2RS Non drive end 6202 2RS	Foundation loads		
Sealing	: Without Bearing Seal Without Bearing Seal	Max. traction : 12 kgf		
		Max. compression : 24 kgf		
Lubrication interval	: -			
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 1 / 2	Revision
Checked by				
Date	17/05/2022			

LOAD PERFORMANCE CURVE

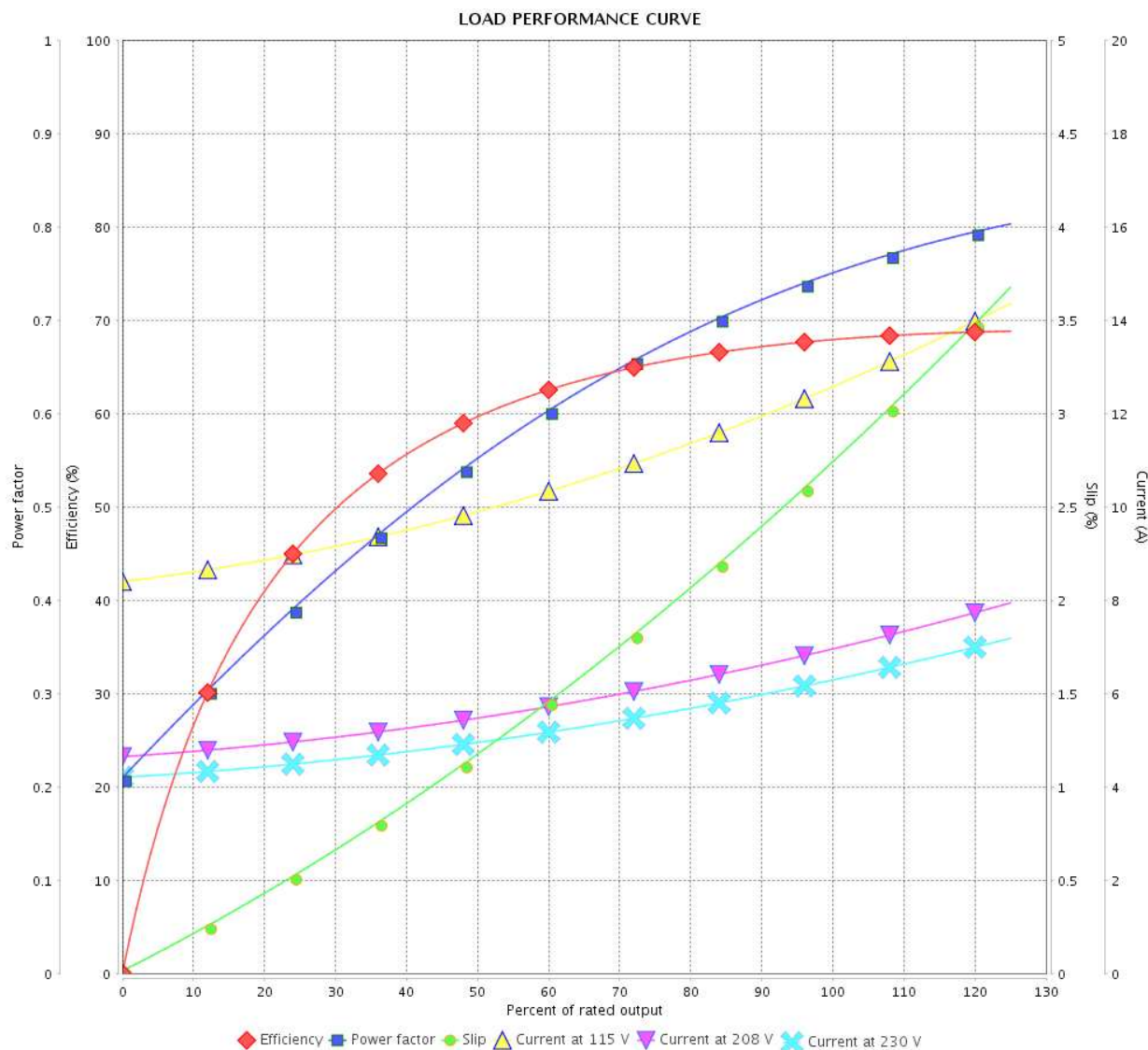
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Product code : 14313605

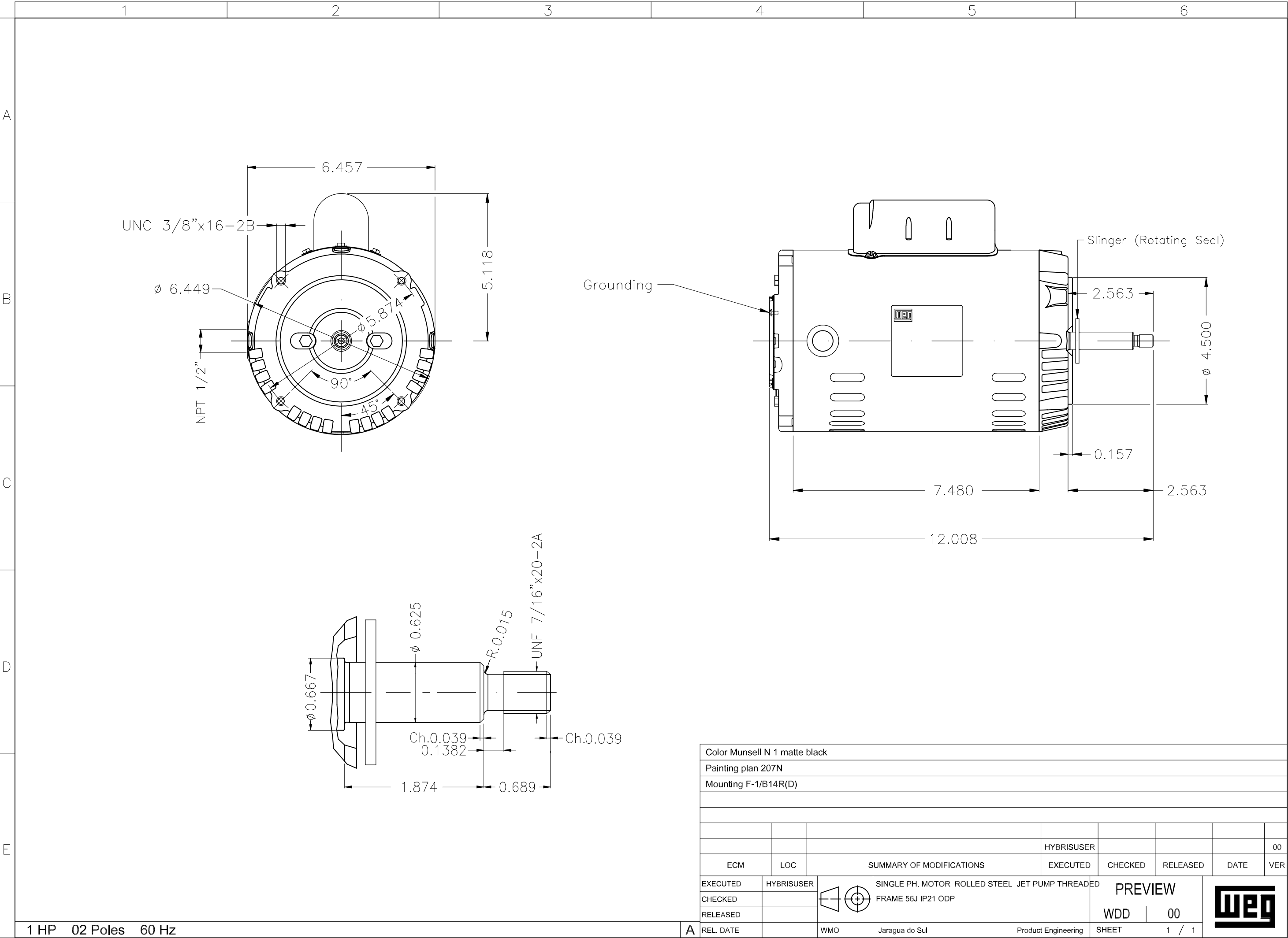


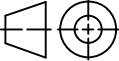
Performance : 115/208-230 V 60 Hz 2P

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 kgm²
 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)									
						HYBRISUSER			00
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE VER
EXECUTED	HYBRISUSER		SINGLE PH. MOTOR ROLLED STEEL JET PUMP THREADED FRAME 56J IP21 ODP			PREVIEW WDD 00 			
CHECKED									
RELEASED									
REL. DATE									
		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			