

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: Jet Pump - J type Single-Phase	Product code :	13789730
Frame	: W56J	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	: 8.4 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0008 kgm ²	
Design	: N			
Output [HP]	0.33			
Poles	2			
Frequency [Hz]	60			
Rated voltage [V]	115/208-230			
Rated current [A]	5.20/2.88-2.60			
L. R. Amperes [A]	36.4/20.2-18.2			
LRC [A]	7.0x(Code P)			
No load current [A]	3.60/1.55-1.80			
Rated speed [RPM]	3490			
Slip [%]	3.06			
Rated torque [kgfm]	0.069			
Locked rotor torque [%]	290			
Breakdown torque [%]	290			
Service factor				
Temperature rise	80 K			
Locked rotor time	14s (cold) 8s (hot)			
Noise level ²	66.0 dB(A)			
Efficiency (%)	25%	41.7		
	50%	44.5		
	75%	52.5		
	100%	56.5		
Power Factor	25%	0.34		
	50%	0.59		
	75%	0.67		
	100%	0.74		
Bearing type	: Drive end 6203 2RS	Non drive end 6202 2RS	Foundation loads	
Sealing	: V'Ring	Without Bearing Seal	Max. traction : 2 kgf	
Lubrication interval	: -	-	Max. compression : 10 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				
Checked by			Page	Revision
Date	17/05/2022		1 / 2	

LOAD PERFORMANCE CURVE

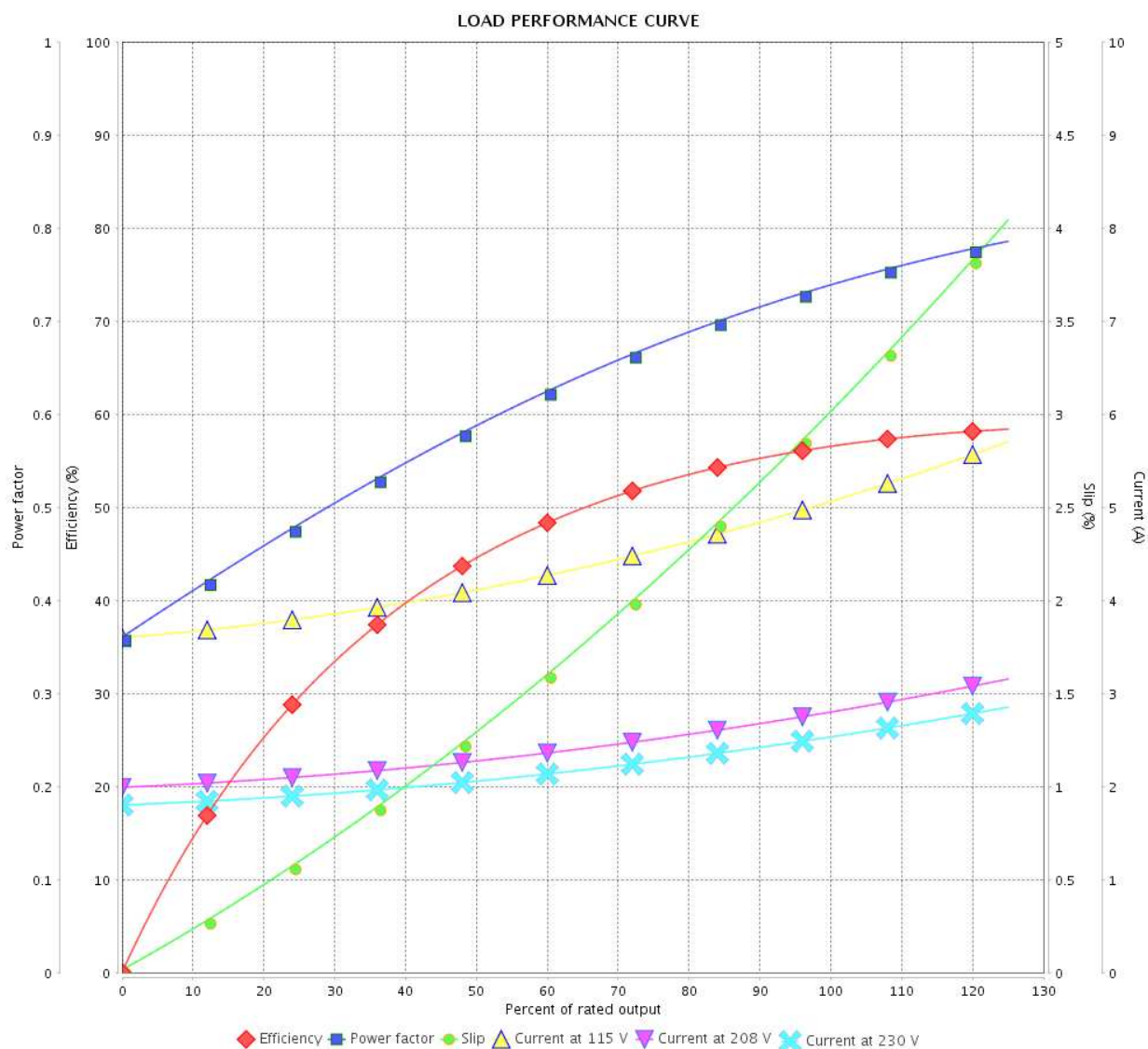
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Product code : 13789730

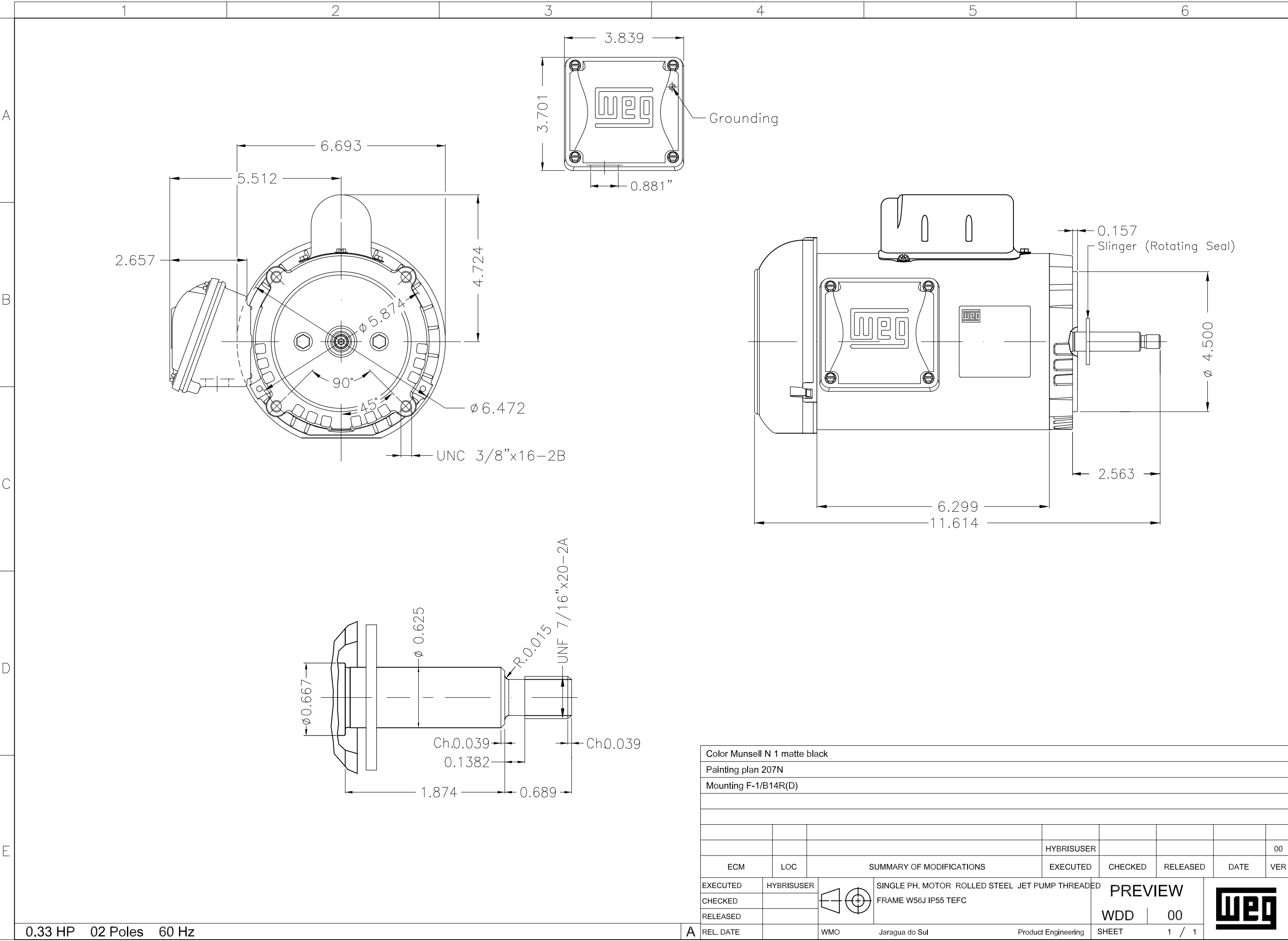


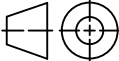
Performance : 115/208-230 V 60 Hz 2P

Rated current : 5.20/2.88-2.60 A
 LRC : 7.0
 Rated torque : 0.069 kgfm
 Locked rotor torque : 290 %
 Breakdown torque : 290 %
 Rated speed : 3490 rpm

Moment of inertia (J) : 0.0008 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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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 W56J IP55 TEFC			PREVIEW WDD 00				
CHECKED										
RELEASED										
REL. DATE	WMO									