

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer		:				
Product line		: Jet Pump - J type Three-Phase		Product code : 13997358		
Frame	: 56J	Cooling method	: IC411 - TEFC			
Insulation class	: F	Mounting	: F-1			
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: CCW			
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line			
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 16.3 kg			
Protection degree	: IP55	Moment of inertia (J)	: 0.0046 kgm <sup>2</sup>			
Design	: B					
Output [HP]			1.5			
Poles			4			
Frequency [Hz]			60			
Rated voltage [V]			575			
Rated current [A]			1.62			
L. R. Amperes [A]			13.3			
LRC [A]			8.2x(Code K)			
No load current [A]			0.867			
Rated speed [RPM]			1750			
Slip [%]			2.78			
Rated torque [kgfm]			0.622			
Locked rotor torque [%]			270			
Breakdown torque [%]			300			
Service factor			1.15			
Temperature rise			80 K			
Locked rotor time			37s (cold) 21s (hot)			
Noise level <sup>2</sup>			52.0 dB(A)			
Efficiency (%)	25%					
	50%			85.5		
	75%			86.5		
	100%			86.5		
Power Factor	25%					
	50%			0.59		
	75%			0.72		
	100%			0.79		
Bearing type	: Drive end	6203 ZZ	Non drive end	6202 ZZ	Foundation loads	
Sealing	: V'Ring		V'Ring		Max. traction : 52 kgf	
Lubrication interval	: -		-		Max. compression : 68 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					Page	Revision
Date	11/05/2022				1 / 2	

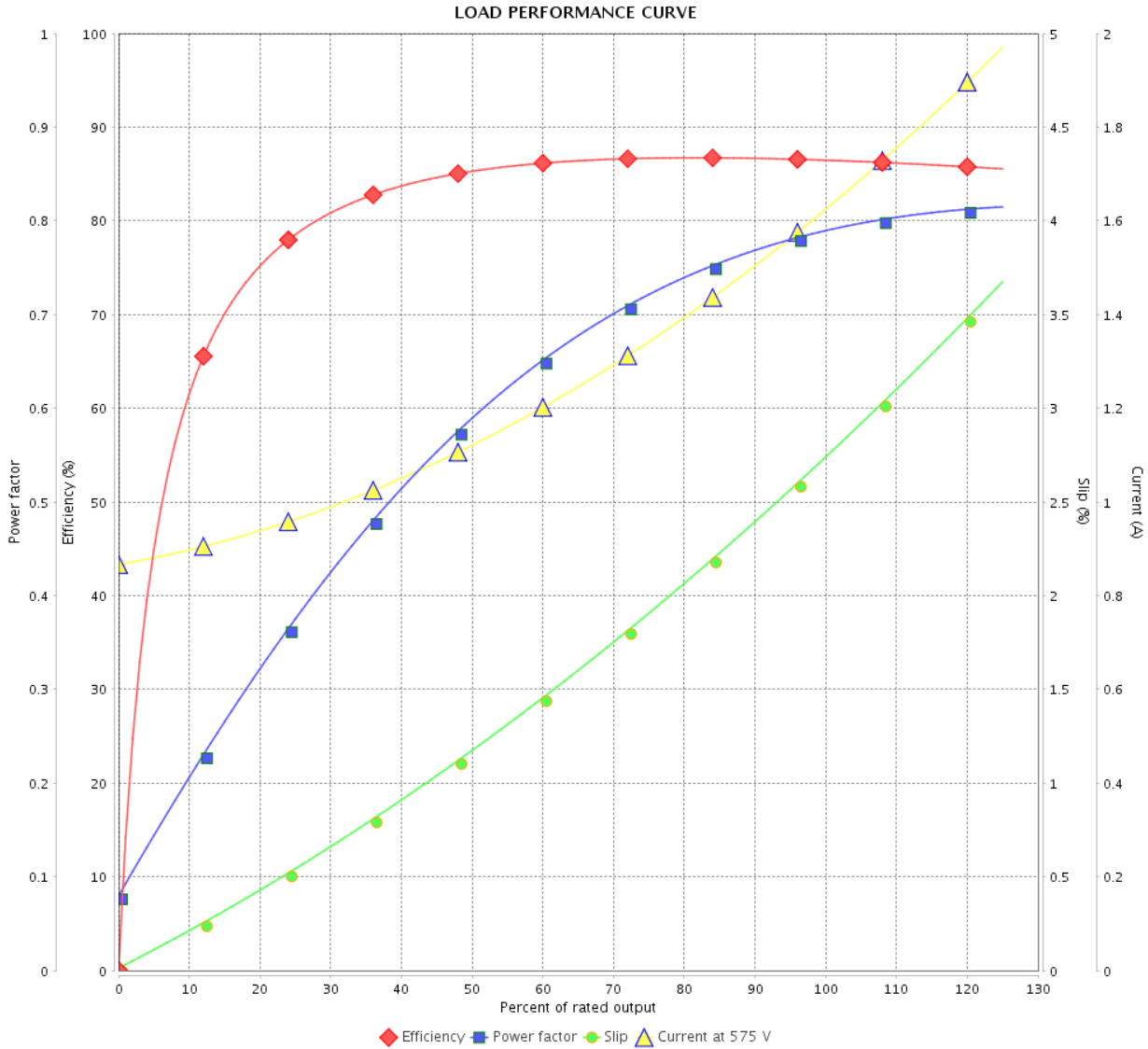
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase      Product code : 13997358



Performance : 575 V 60 Hz 4P

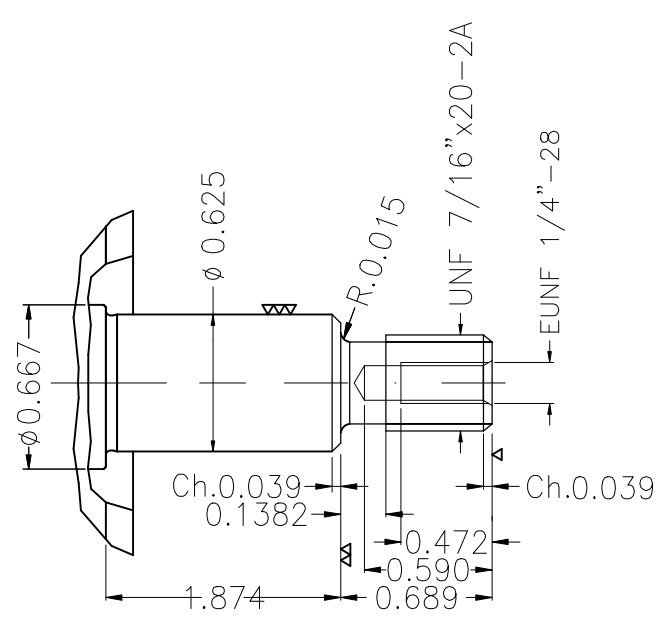
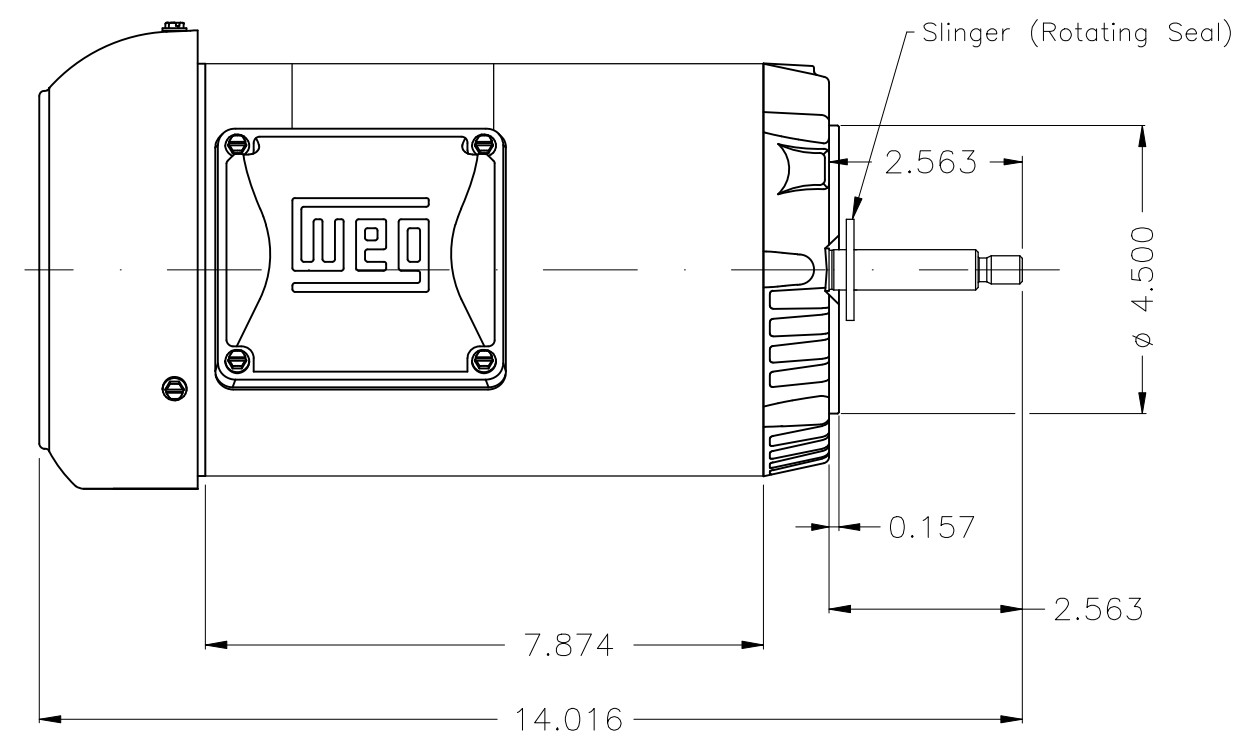
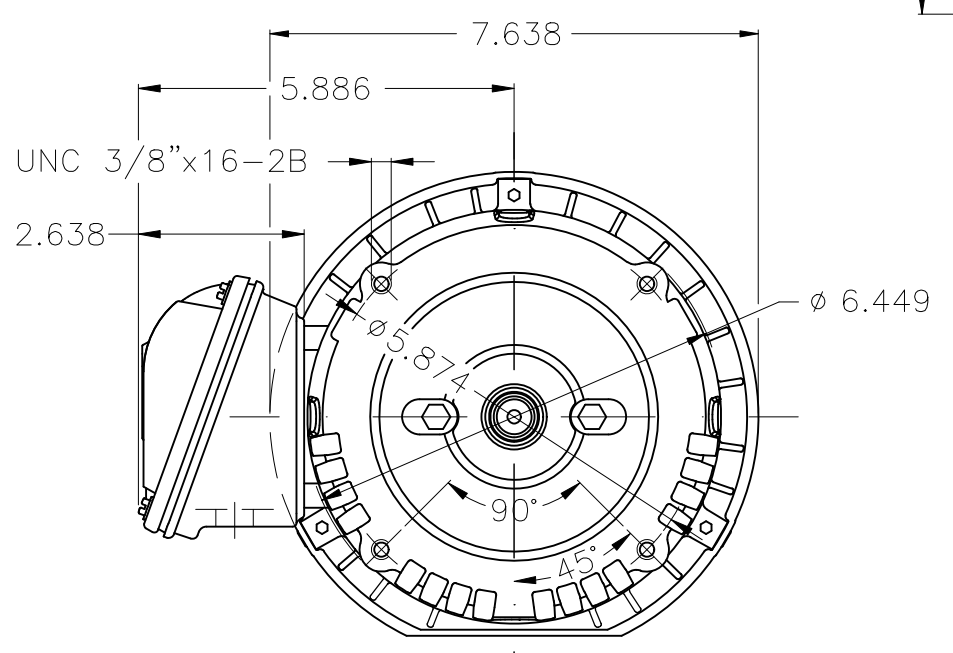
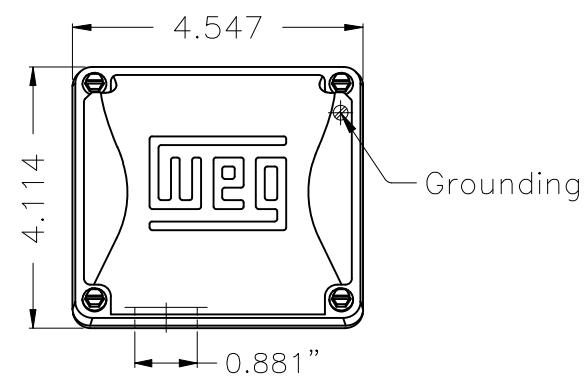
Rated current : 1.62 A  
 LRC : 8.2  
 Rated torque : 0.622 kgfm  
 Locked rotor torque : 270 %  
 Breakdown torque : 300 %  
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0046 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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Checked by				
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1 2 3 4 5 6

A  
B  
C  
D  
E



- Fan cover - steel plate
- NDE-bearing with double shield-ZZ
- DE-bearing with double shield-ZZ
- 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	THREE PH. MOTOR ROLLED STEEL JET PUMP THREADED PREL. SET													
CHECKED		FRAME 56J IP55 TEFC													
RELEASED															
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1	/	1							

1.5 HP 04 Poles 60 Hz

A

