

# 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					
<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p>			<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>		
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/05/2022			1 / 2	

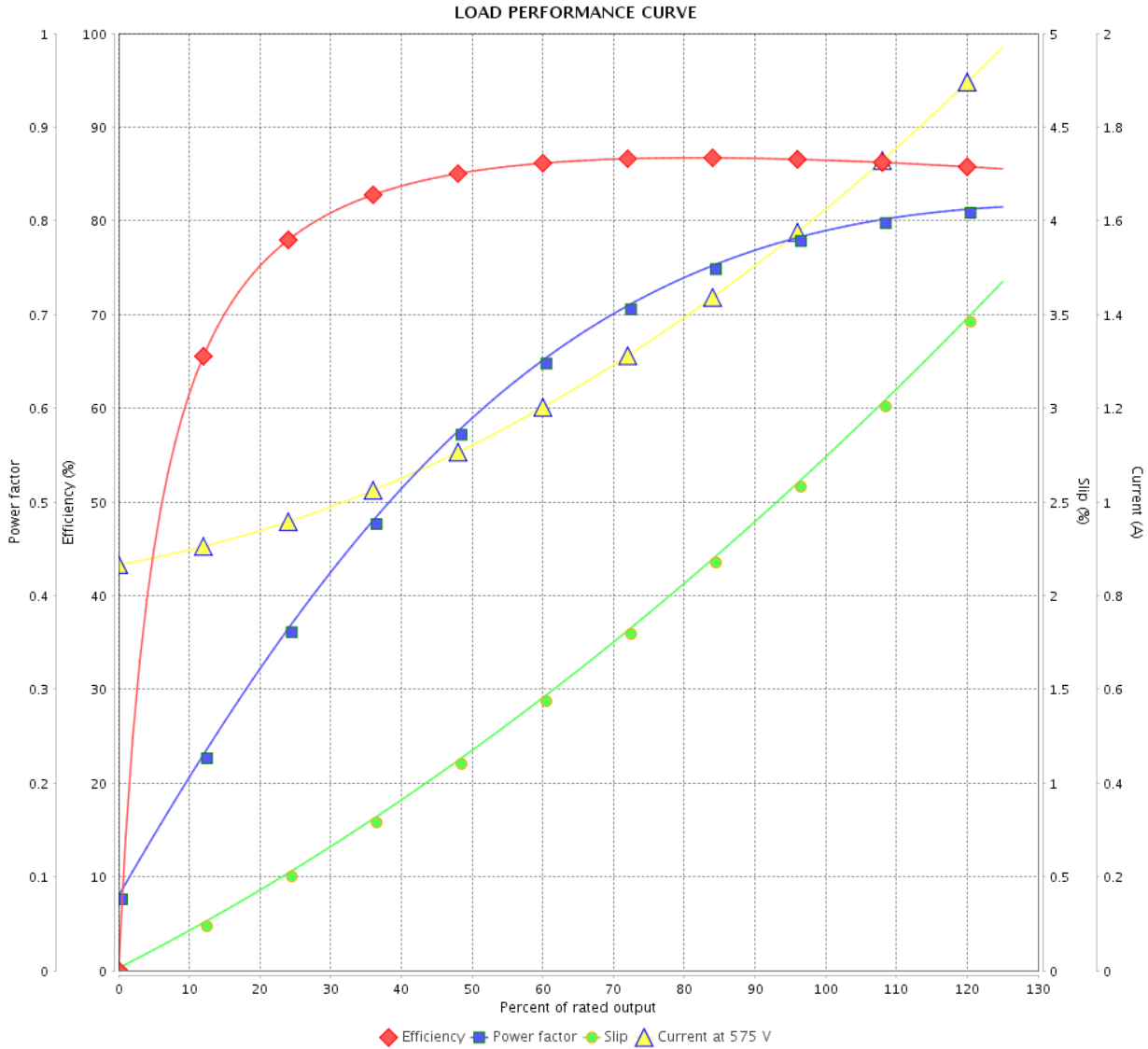
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

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



Performance : 575 V 60 Hz 4P

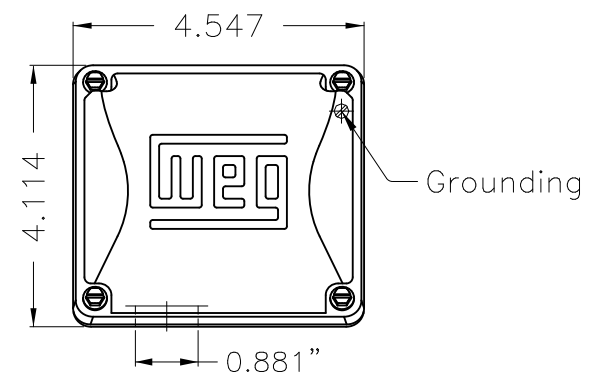
Rated current : 1.62 A  
 LRC : 8.2  
 Rated torque : 0.622 kgfm  
 Locked rotor torque : 270 %  
 Breakdown torque : 300 %  
 Rated speed : 1750 rpm

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

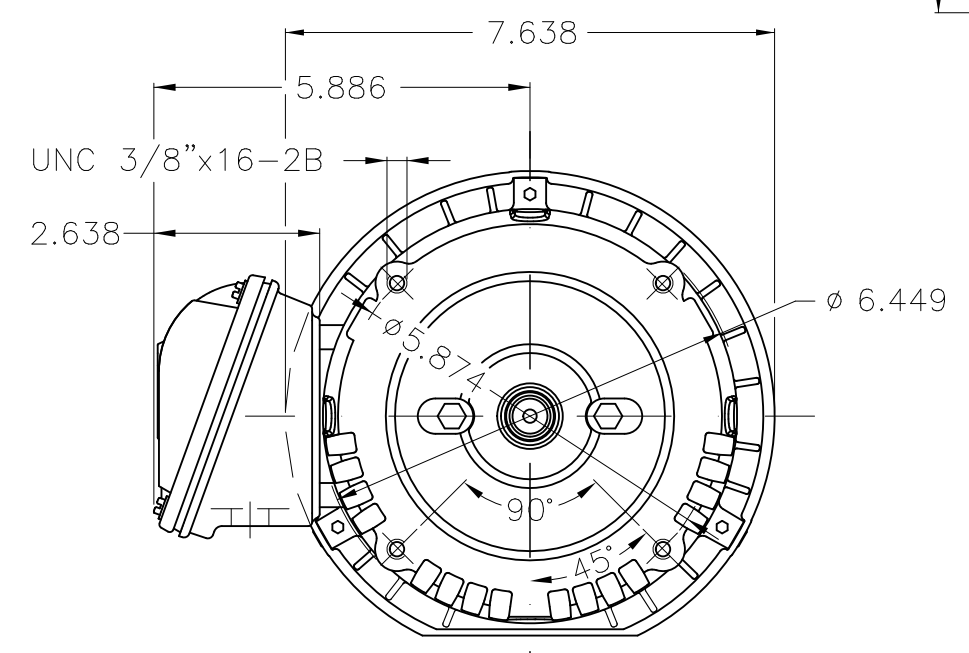
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	11/05/2022			

1 2 3 4 5 6

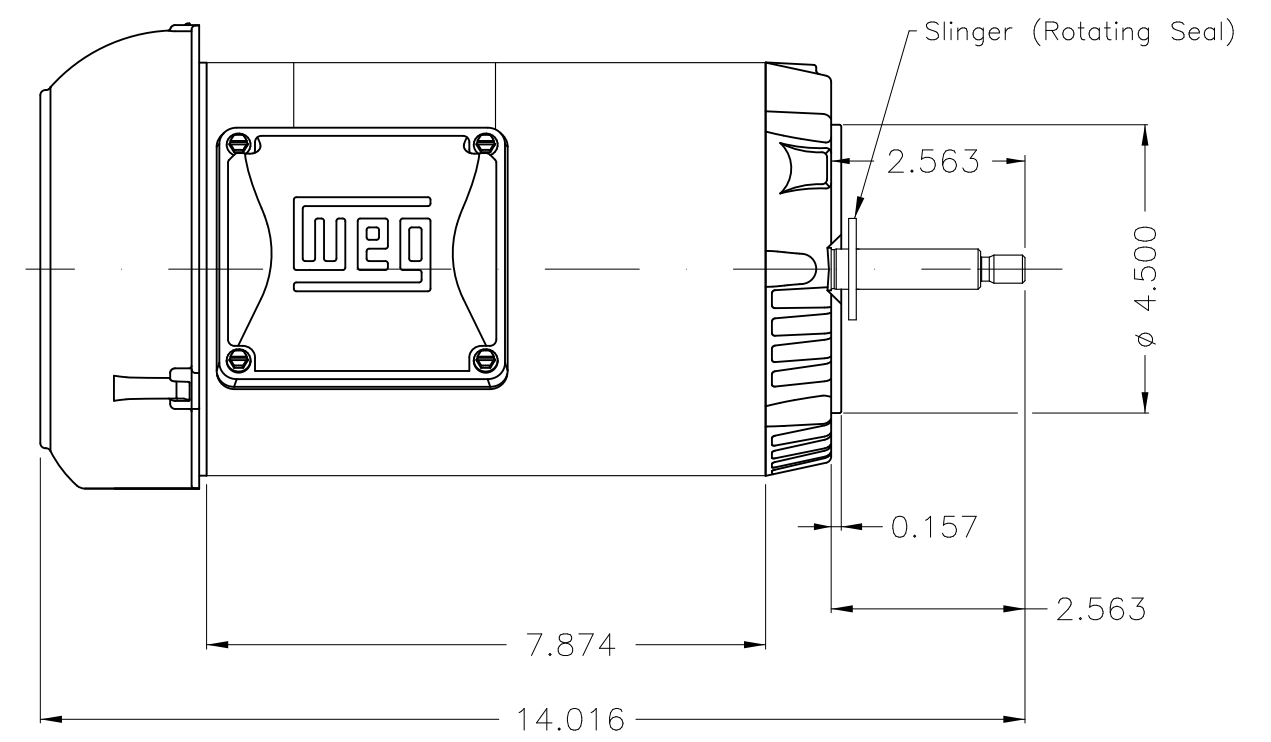
A



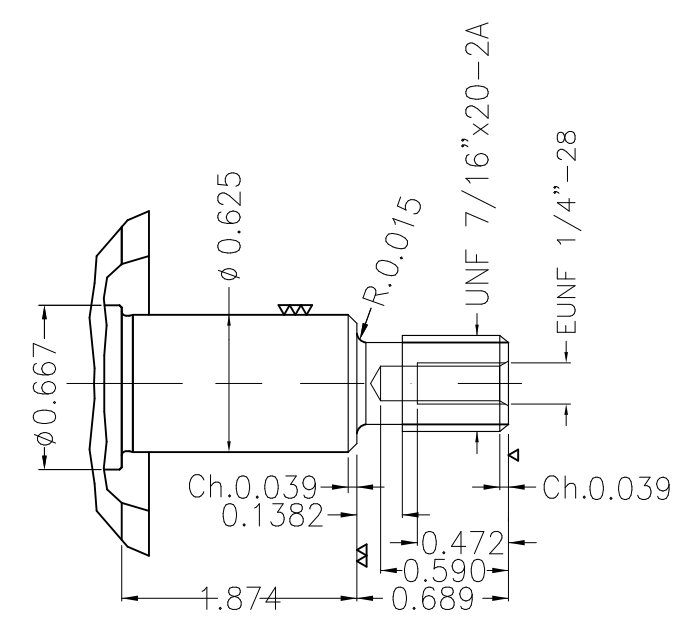
B



C



D



E

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 PUMP HEAD										00	
CHECKED		FRAME 56J IP55 TEFC										PREVIEW	
RELEASED												WDD   00	
REL. DATE		WMO Jaragua do Sul		Product Engineering		SHEET		1 / 1					

1.5 HP 04 Poles 60 Hz

Dimensions in inches XME A3