

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 ¹ : CCW		
Ambient temperature	: -20°C to +40°C	Starting method : Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight ³ : 16.3 kg		
Protection degree	: IP55	Moment of inertia (J) : 0.0046 kgm ²		
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 ²		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	: <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 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	

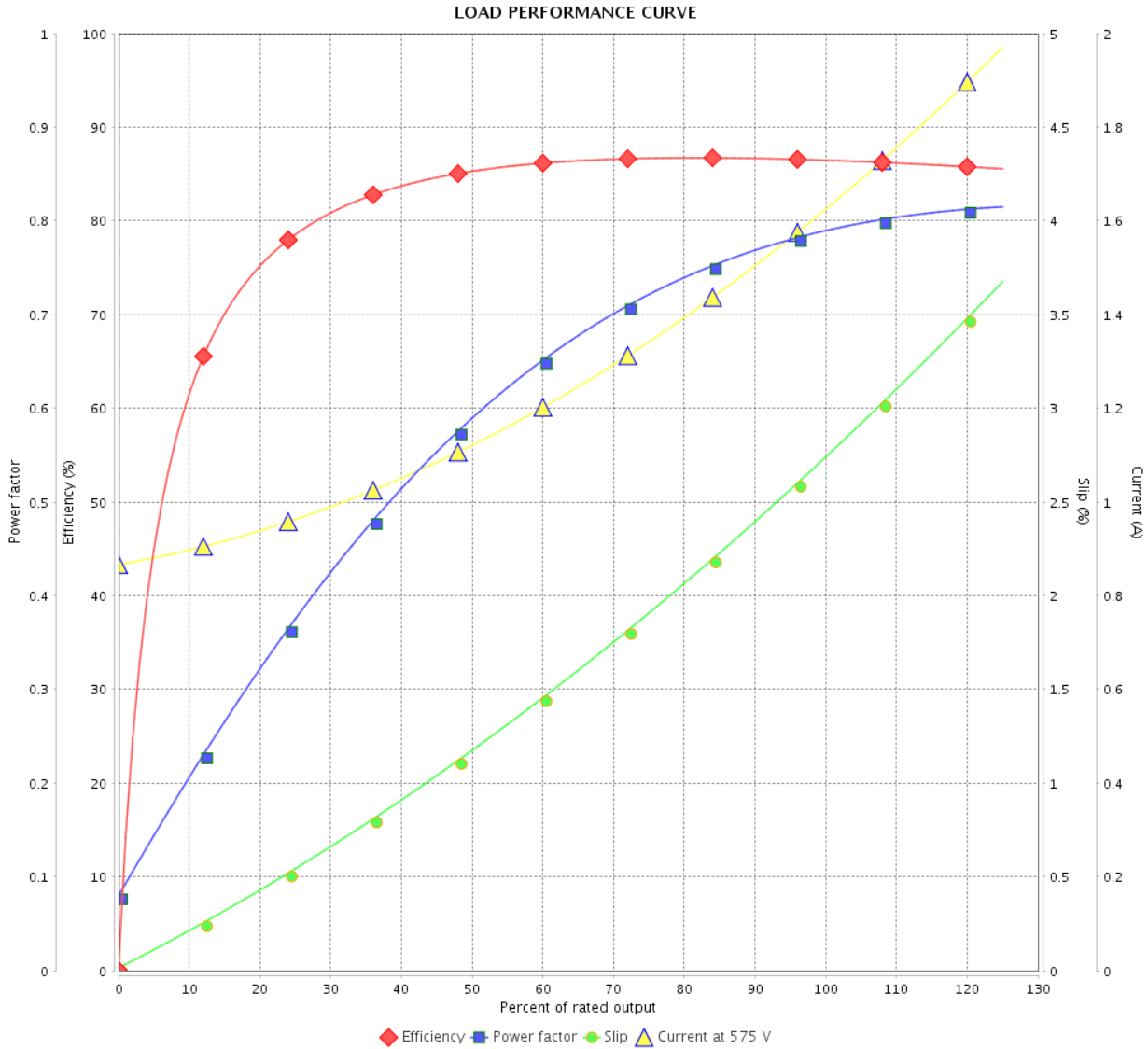
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

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



Performance : 575 V 60 Hz 4P

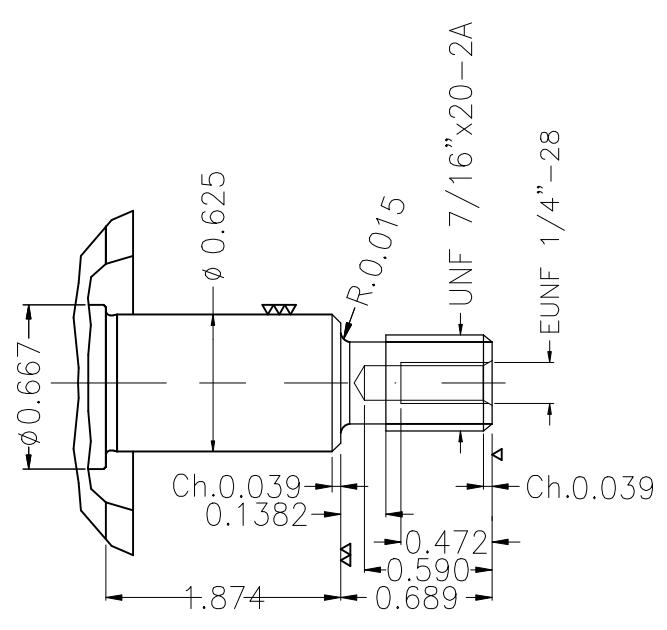
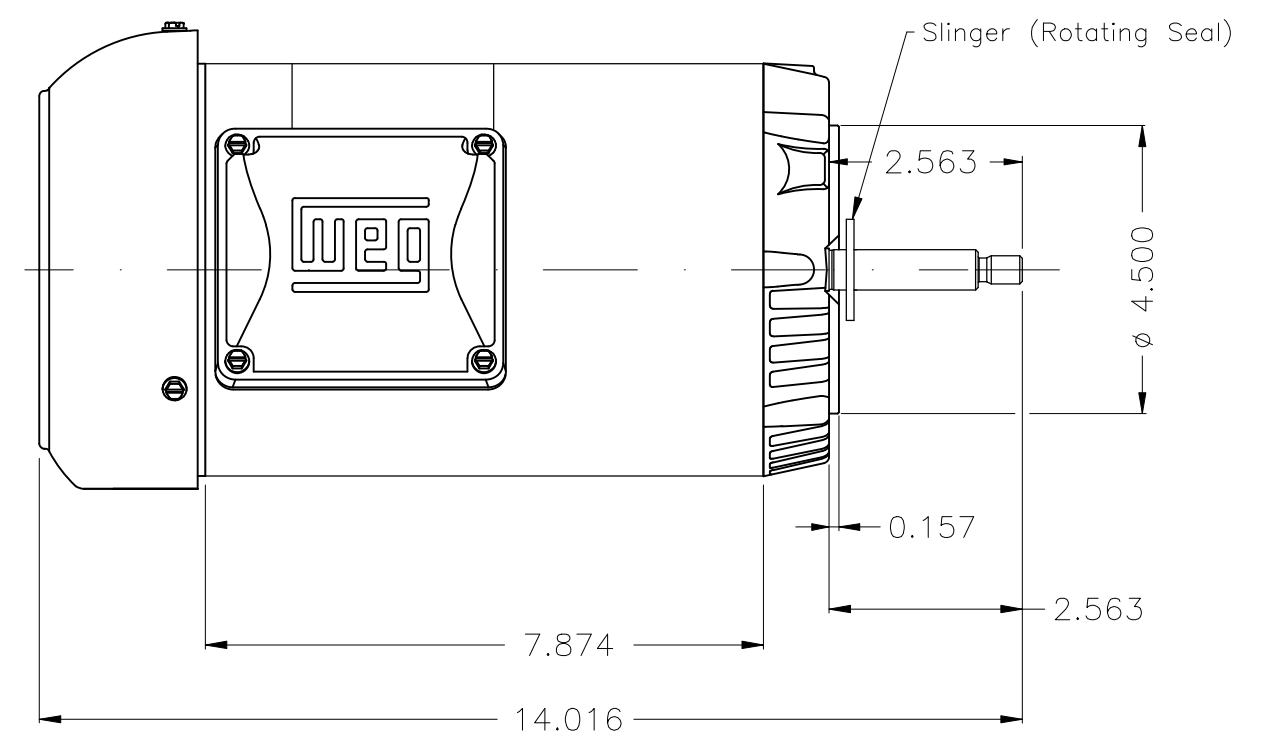
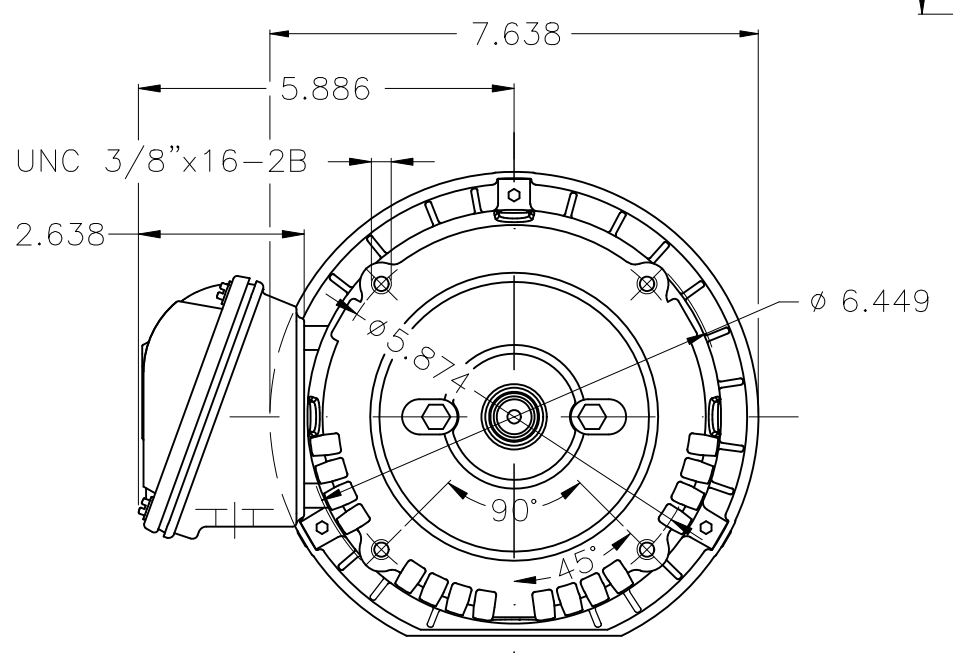
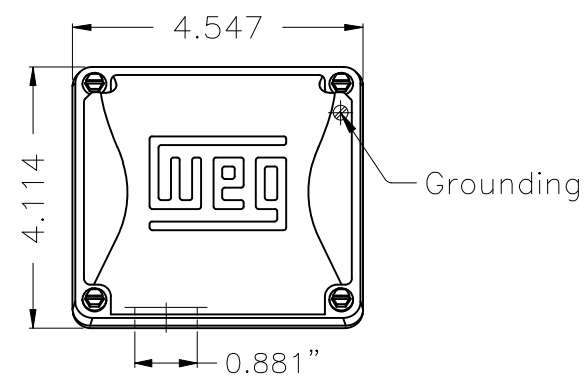
Rated current : 1.62 A
 LRC : 8.2
 Rated torque : 0.622 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0046 kgm²
 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

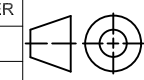


- Fan cover - steel plate
- NDE-bearing with double shield-ZZ
- DE-bearing with double shield-ZZ
- Color Munsell N 1 matte black
- Painting plan 207N
- Mounting F-1/B14R(D)

						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



PREVIEW

WDD 00

