

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer					
Product line	: Jet Pump - C type Single-Phase	Product code :	13917953		
Frame	: 56C	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	: 21.7 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0040 kgm ²		
Design	: L				
Output [HP]	3				
Poles	2				
Frequency [Hz]	60				
Rated voltage [V]	230				
Rated current [A]	12.7				
L. R. Amperes [A]	102				
LRC [A]	8.0x(Code J)				
No load current [A]	4.00				
Rated speed [RPM]	3490				
Slip [%]	3.06				
Rated torque [kgfm]	0.624				
Locked rotor torque [%]	210				
Breakdown torque [%]	250				
Service factor	1.15				
Temperature rise	80 K				
Locked rotor time	10s (cold) 6s (hot)				
Noise level ²	68.0 dB(A)				
Efficiency (%)	25%				
	50%	76.0			
	75%	79.0			
	100%	80.0			
Power Factor	25%				
	50%	0.86			
	75%	0.92			
	100%	0.94			
Bearing type	: Drive end : 6203 2RS	Non drive end : 6202 2RS	Foundation loads		
Sealing	: V'Ring	V'Ring	Max. traction	: 38 kgf	
Lubrication interval	: -	-	Max. compression	: 60 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	

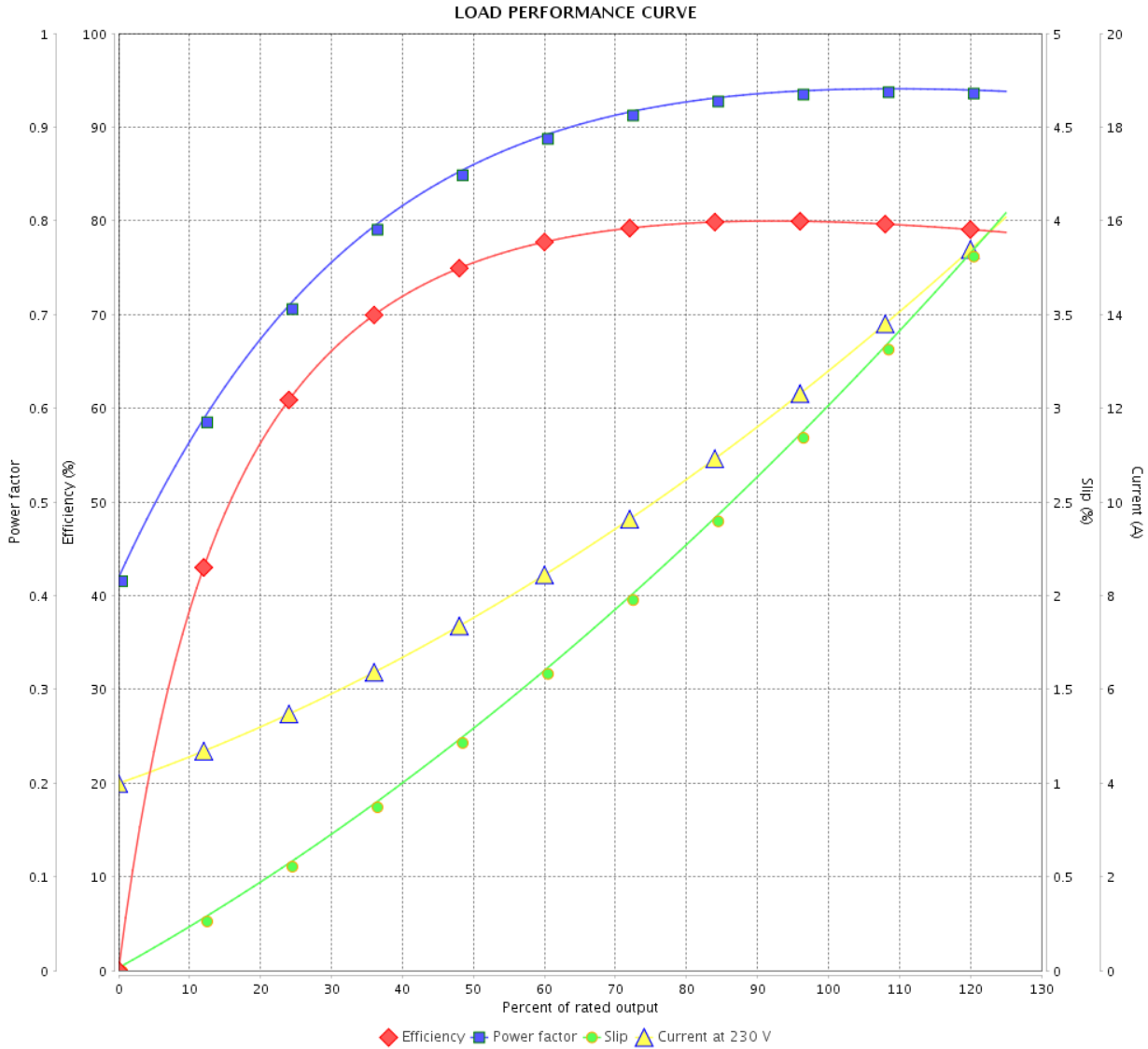
LOAD PERFORMANCE CURVE

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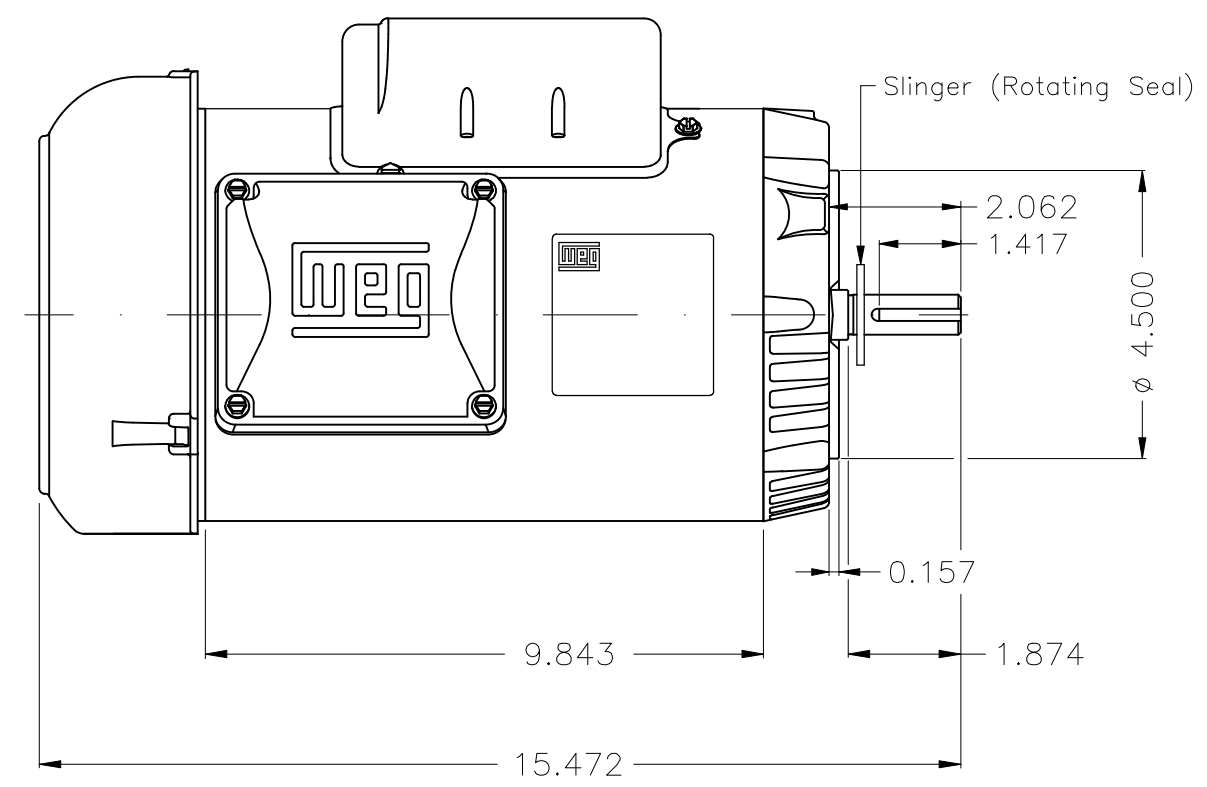
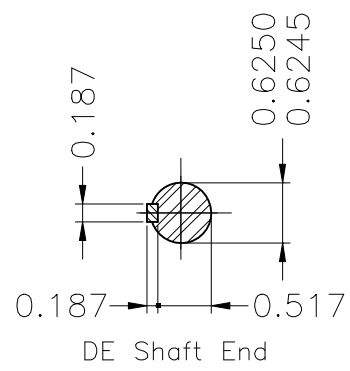
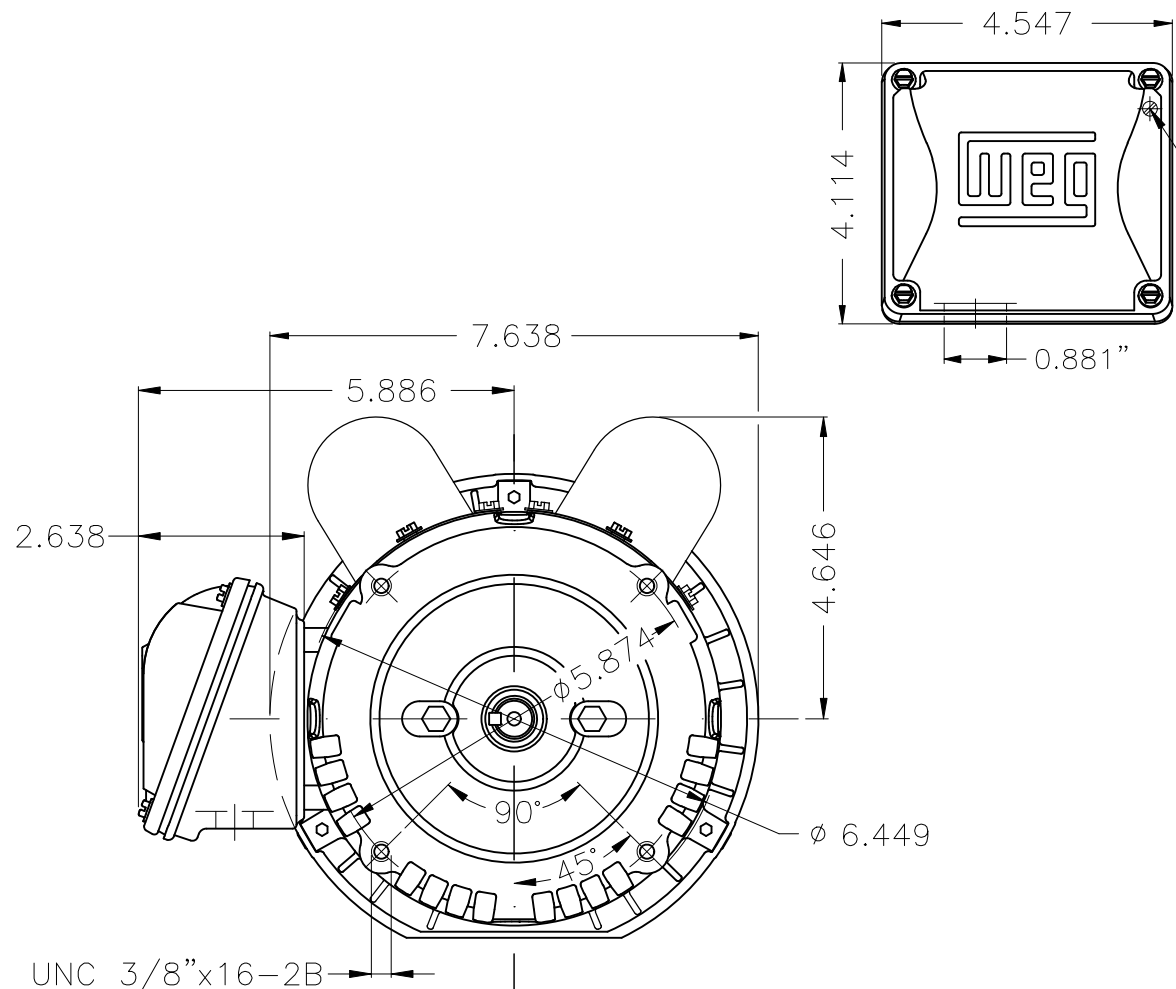
Performance : 230 V 60 Hz 2P

Rated current	: 12.7 A	Moment of inertia (J)	: 0.0040 kgm ²
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 0.624 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3490 rpm	Design	: L

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

A
B
C
D
E



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

3 HP 02 Poles 60 Hz

A