

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer	:			
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code : 13328376		
Frame	: 143/5JM	Cooling method : IC411 - TEFC		
Insulation class	: F	Mounting : F-1		
Duty cycle	: Cont.(S1)	Rotation ¹ : Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method : Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight ³ : 20.4 kg		
Protection degree	: IP55	Moment of inertia (J) : 0.0055 kgm ²		
Design	: B			
Output [HP]		2		
Poles		4		
Frequency [Hz]		60		
Rated voltage [V]		575		
Rated current [A]		2.18		
L. R. Amperes [A]		17.8		
LRC [A]		8.2x(Code K)		
No load current [A]		1.12		
Rated speed [RPM]		1745		
Slip [%]		3.06		
Rated torque [kgfm]		0.832		
Locked rotor torque [%]		270		
Breakdown torque [%]		300		
Service factor		1.15		
Temperature rise		80 K		
Locked rotor time		27s (cold) 15s (hot)		
Noise level ²		52.0 dB(A)		
Efficiency (%)	25%	86.0		
	50%	85.5		
	75%	87.5		
	100%	86.5		
Power Factor	25%	0.35		
	50%	0.60		
	75%	0.73		
	100%	0.80		
Bearing type	: <u>Drive end</u> 6206 ZZ <u>Non drive end</u> 6203 ZZ	Foundation loads		
Sealing	: V'Ring Without Bearing Seal	Max. traction : 61 kgf		
Lubrication interval	: - -	Max. compression : 81 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	16/05/2022		1 / 2	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

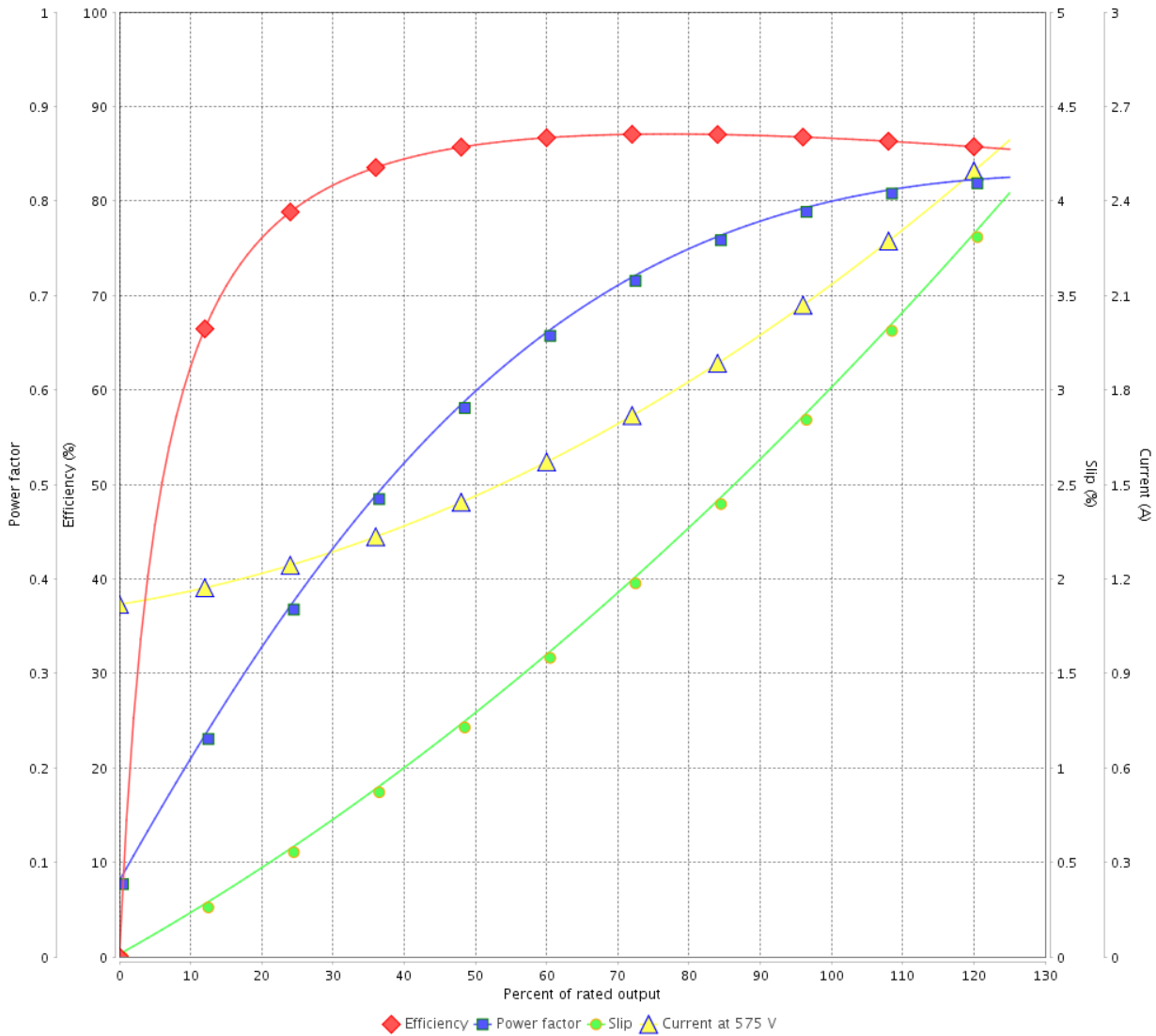


Customer : _____

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13328376

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P

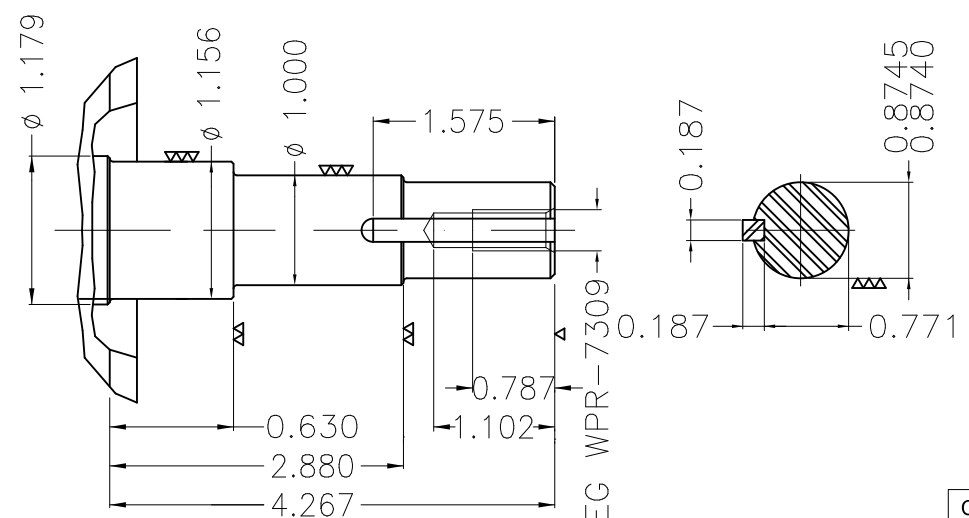
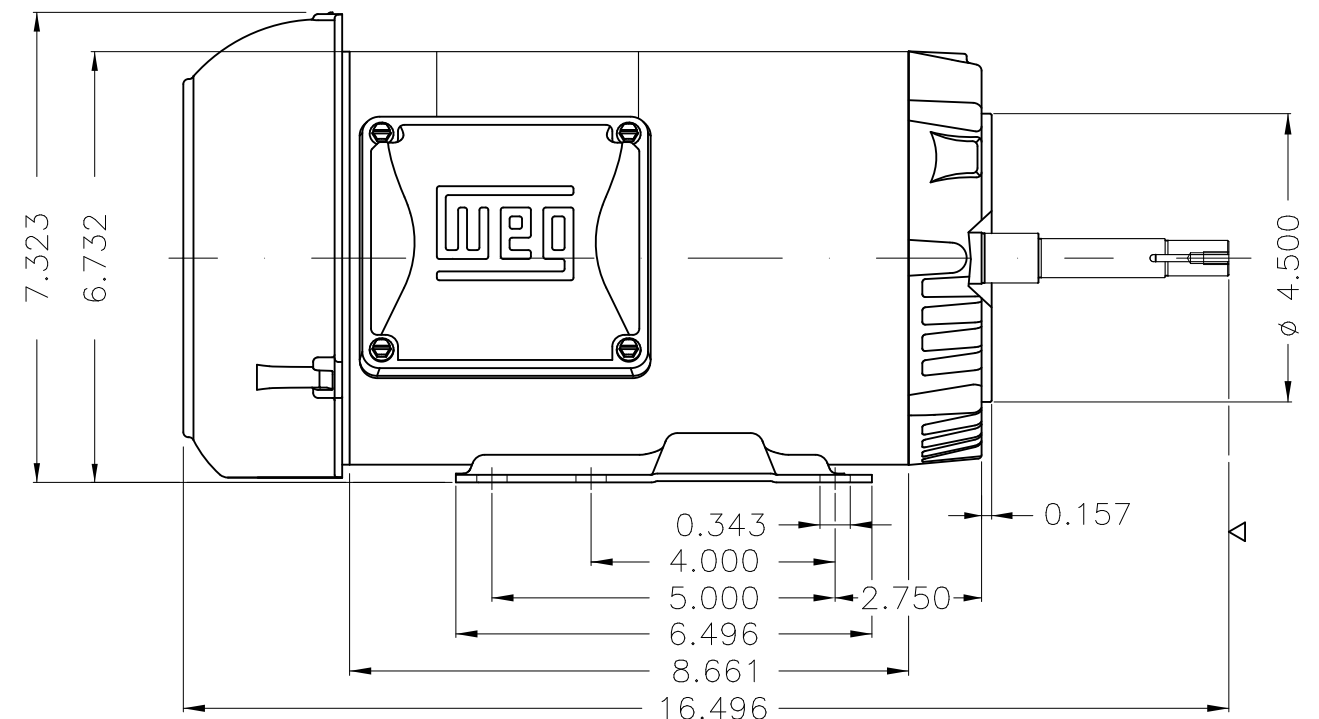
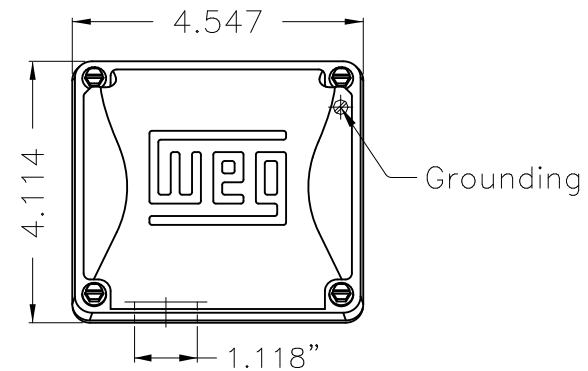
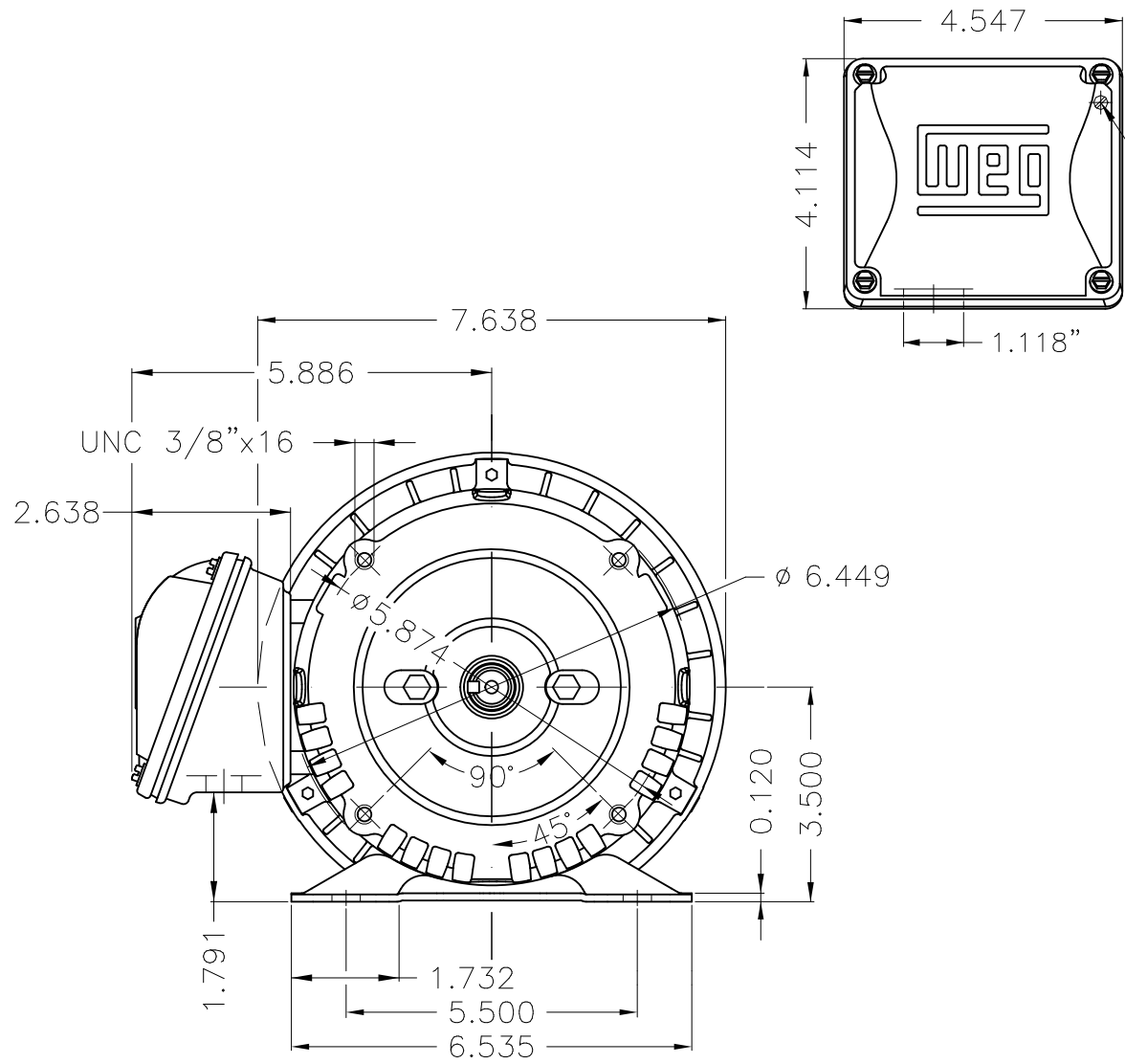
Rated current : 2.18 A
LRC : 8.2
Rated torque : 0.832 kgfm
Locked rotor torque : 270 %
Breakdown torque : 300 %
Rated speed : 1745 rpm

Moment of inertia (J) : 0.0055 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				
Date				

1 2 3 4 5 6

A
B
C
D
E



EUNC 3/8"-16 WEG WPR-7309

DE Shaft End

Color Munsell N 1 matte black					
Painting plan 207N					
Mounting F-1/B34R(D)					
				HYBRISUSER	00
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL CLOSE COUPLED PUMP IN TYPE NEW PREM. EFF.		RELEASED	DATE
CHECKED		FRAME 143/5JM IP55 TEFC			VER
RELEASED					
REL. DATE		WMO	Jaragua do Sul	Product Engineering	

2 HP 04 Poles 60 Hz

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