

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer	:				
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	14808417		
Frame	: 143/5JM	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: F-1		
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 19.2 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%	85.2			
	50%	85.5			
	75%	86.5			
	100%	86.5			
Power Factor	25%	0.35			
	50%	0.59			
	75%	0.72			
	100%	0.79			
Bearing type	: <u>Drive end</u> 6206 ZZ	<u>Non drive end</u> 6203 ZZ	Foundation loads		
Sealing	: V'Ring	V'Ring	Max. traction	: 43 kgf	
Lubrication interval	: -	-	Max. compression	: 63 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

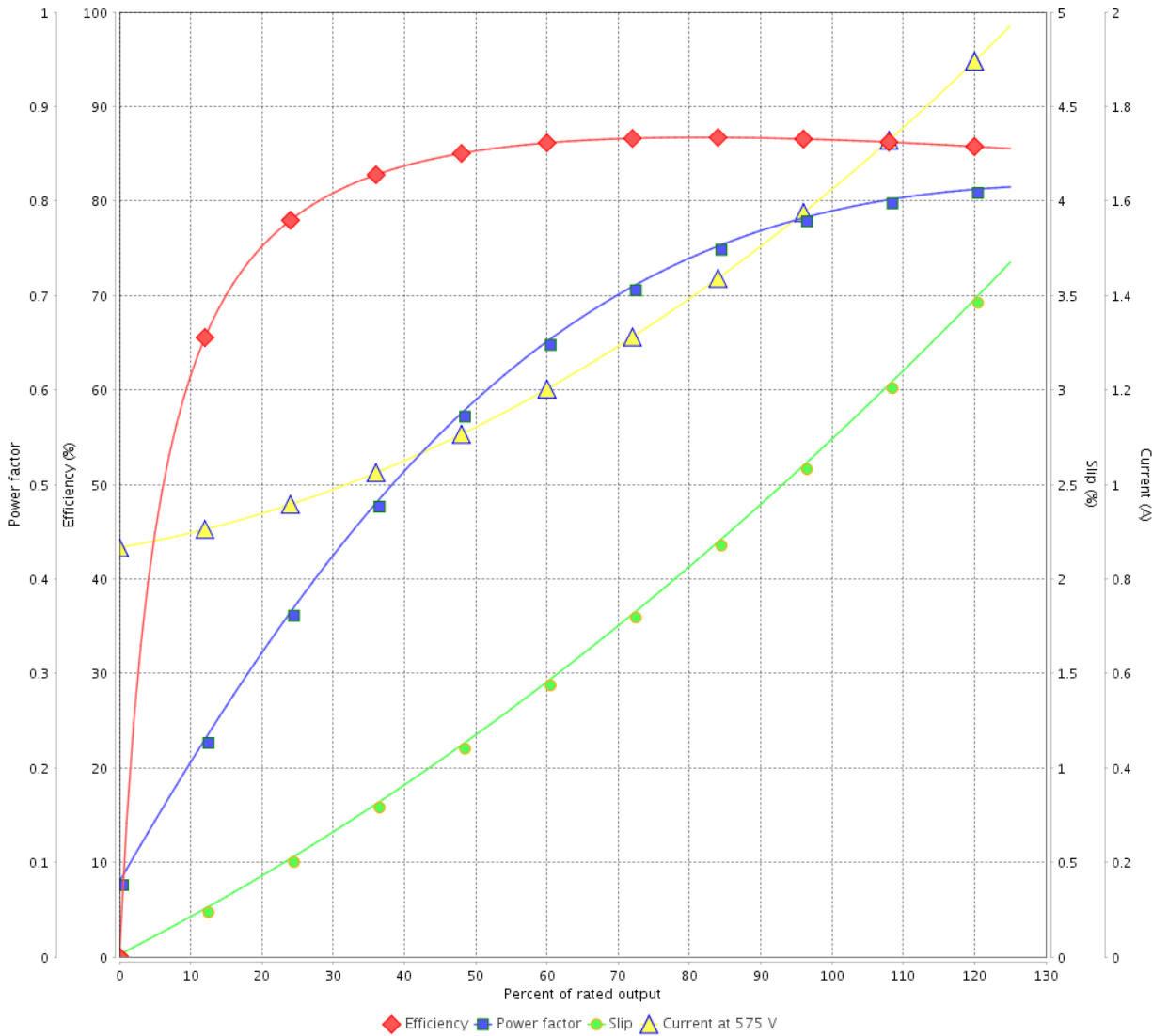


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Product line : JM Pump NEMA Premium  
Efficiency Three-Phase

Product code : 14808417

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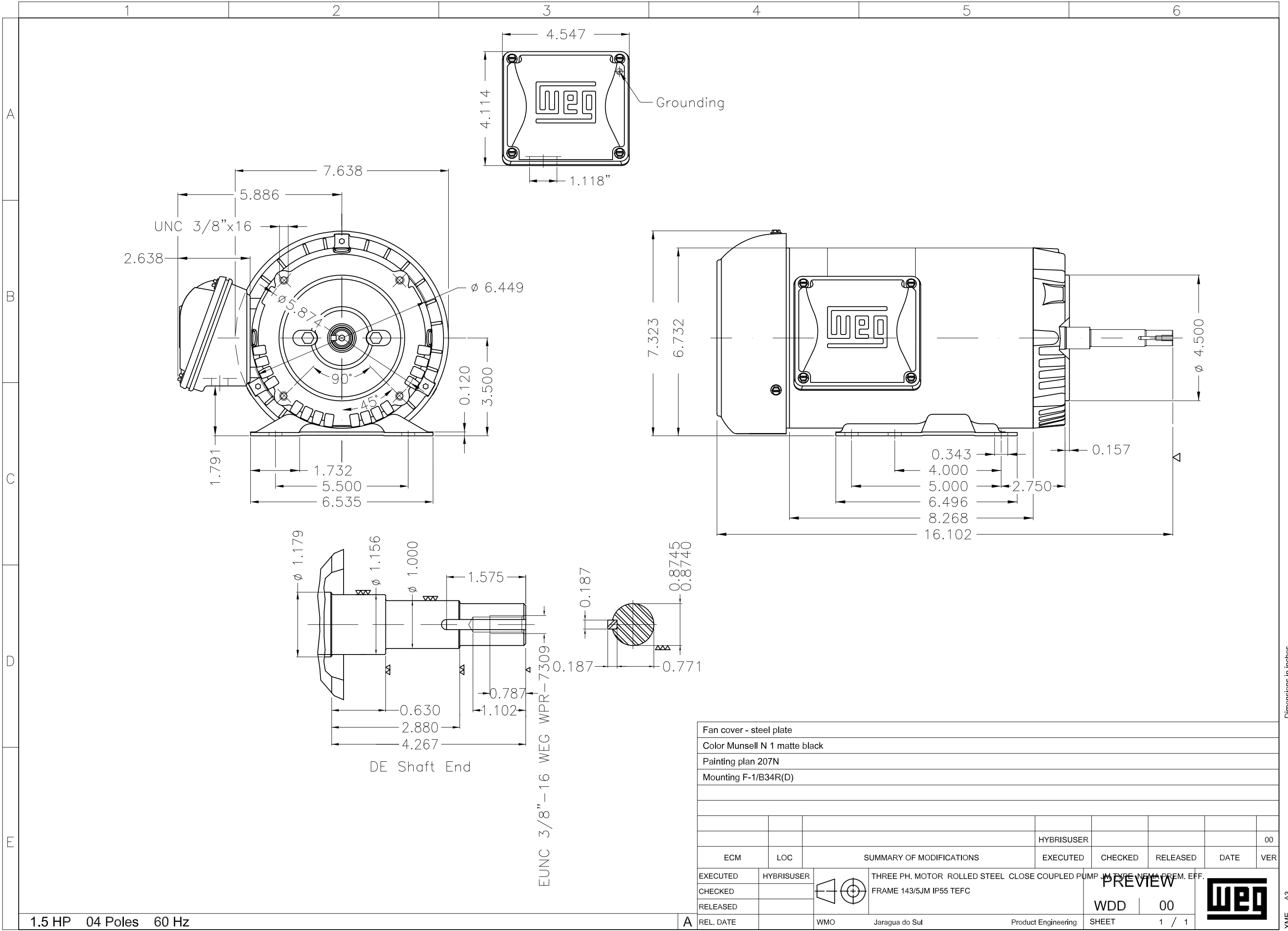


Performance : 575 V 60 Hz 4P

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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EUNC 3/8"-16 WEG WPR-7309

DE Shaft End

Fan cover - steel plate					
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			
RELEASED					
REL. DATE		WMO	Jaragua do Sul	Product Engineering	

1.5 HP 04 Poles 60 Hz

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