

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 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	: 19.2 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%	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	: Drive end 6206 ZZ Non drive end 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				
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
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LOAD PERFORMANCE CURVE

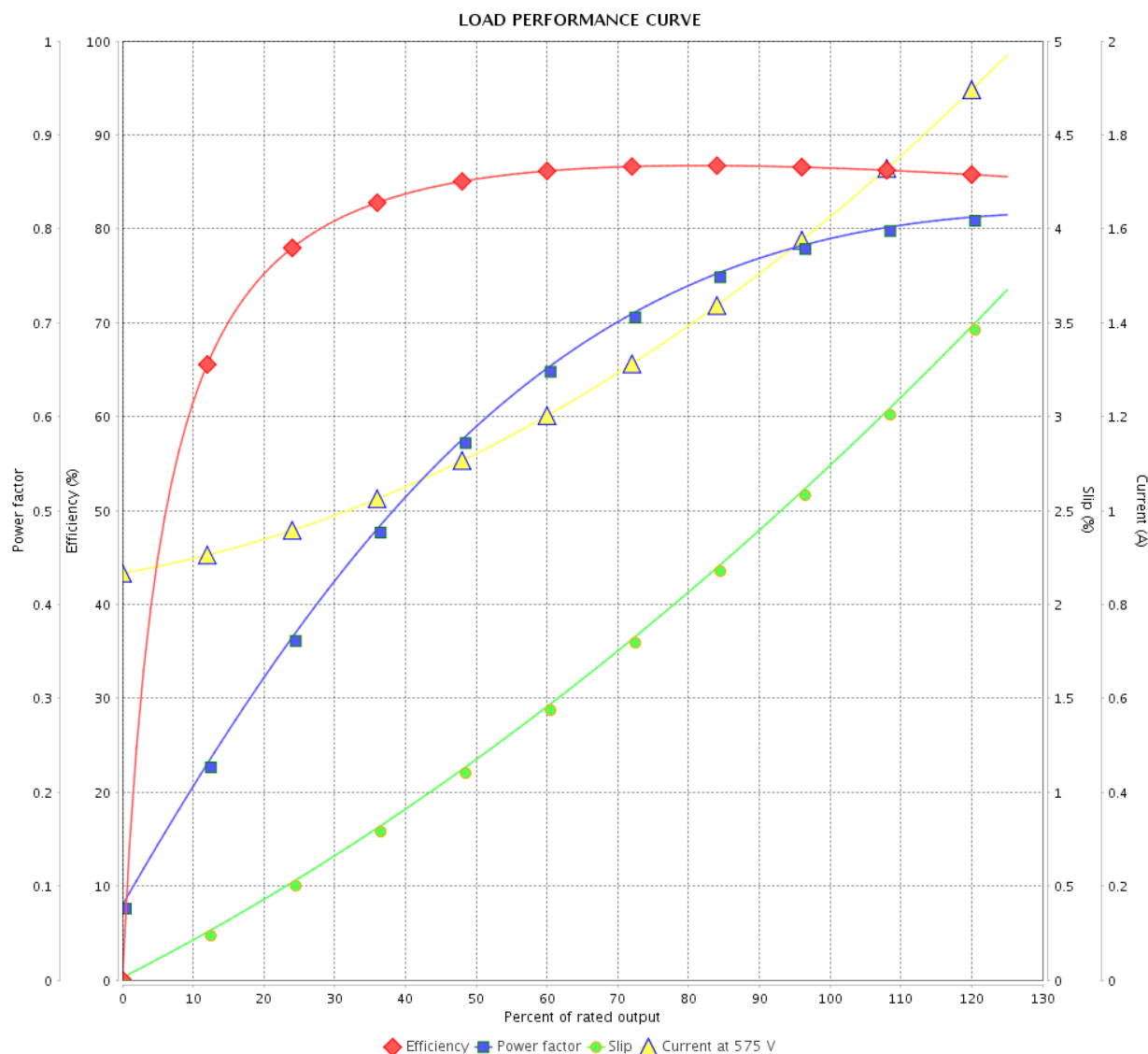
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Efficiency Three-Phase

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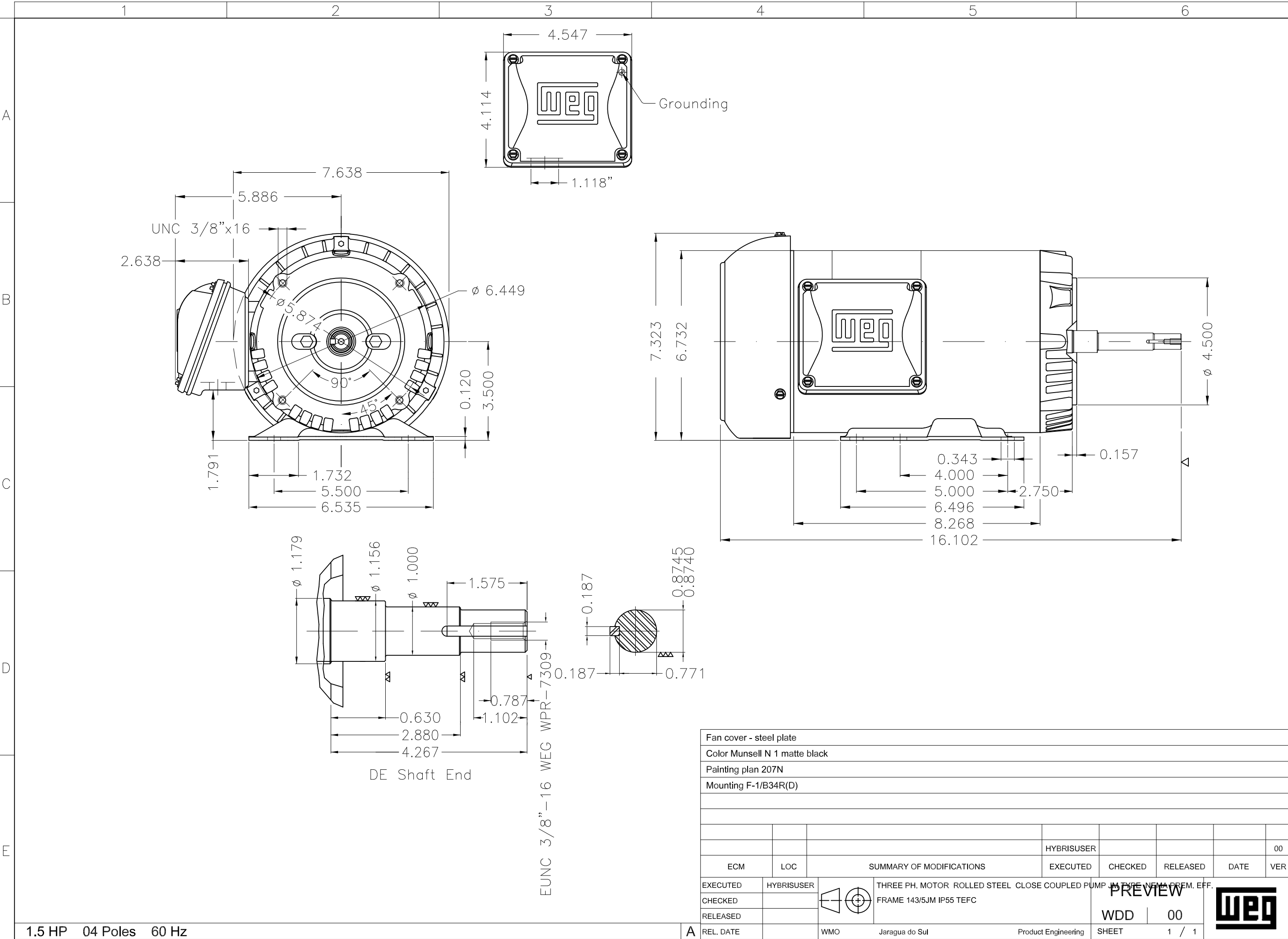


Performance : 575 V 60 Hz 4P

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 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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Fan cover - steel plate									
Color Munsell N 1 matte black									
Painting plan 207N									
Mounting F-1/B34R(D)									