

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code : 13287116
Frame	: 143/5JM	Cooling method	: IC01 - ODP	
Insulation class	: F	Mounting	: W-6	
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	: 18.5 kg	
Design	: B	Moment of inertia (J)	: 0.0049 kgm ²	
Output [HP]	2			
Poles	4			
Frequency [Hz]	60			
Rated voltage [V]	575			
Rated current [A]	2.15			
L. R. Amperes [A]	16.6			
LRC [A]	7.7x(Code K)			
No load current [A]	1.10			
Rated speed [RPM]	1740			
Slip [%]	3.33			
Rated torque [kgfm]	0.834			
Locked rotor torque [%]	260			
Breakdown torque [%]	320			
Service factor	1.15			
Temperature rise	80 K			
Locked rotor time	30s (cold) 17s (hot)			
Noise level ²	52.0 dB(A)			
Efficiency (%)	25%			
	50%	85.5		
	75%	86.5		
	100%	86.5		
Power Factor	25%			
	50%	0.61		
	75%	0.74		
	100%	0.81		
Bearing type	: Drive end 6206 ZZ Non drive end 6203 ZZ	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction : 67 kgf		
		Max. compression : 85 kgf		
Lubrication interval	: - -			
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				
Date	16/05/2022		Page 1 / 2	Revision

LOAD PERFORMANCE CURVE

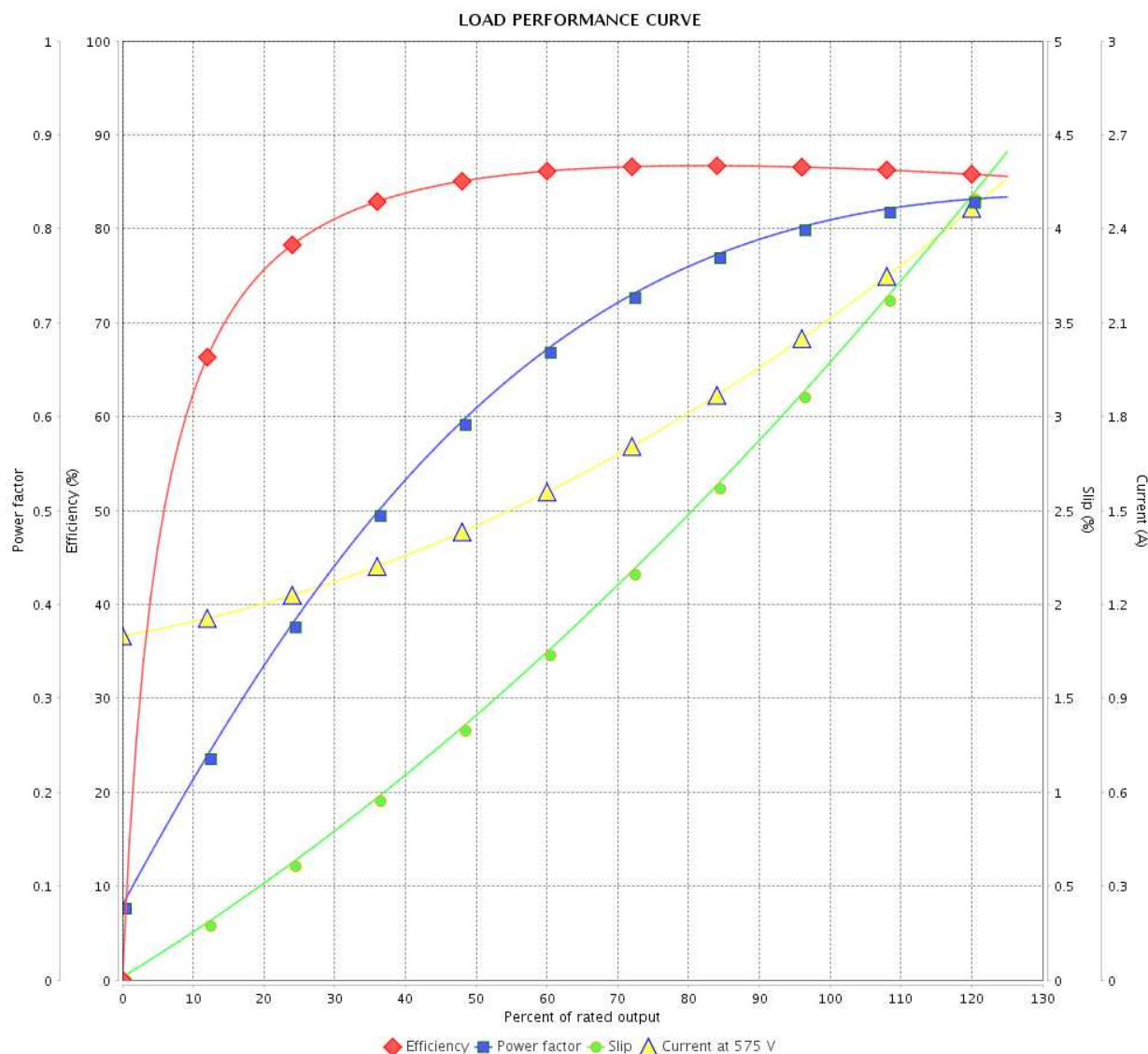
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Efficiency Three-Phase

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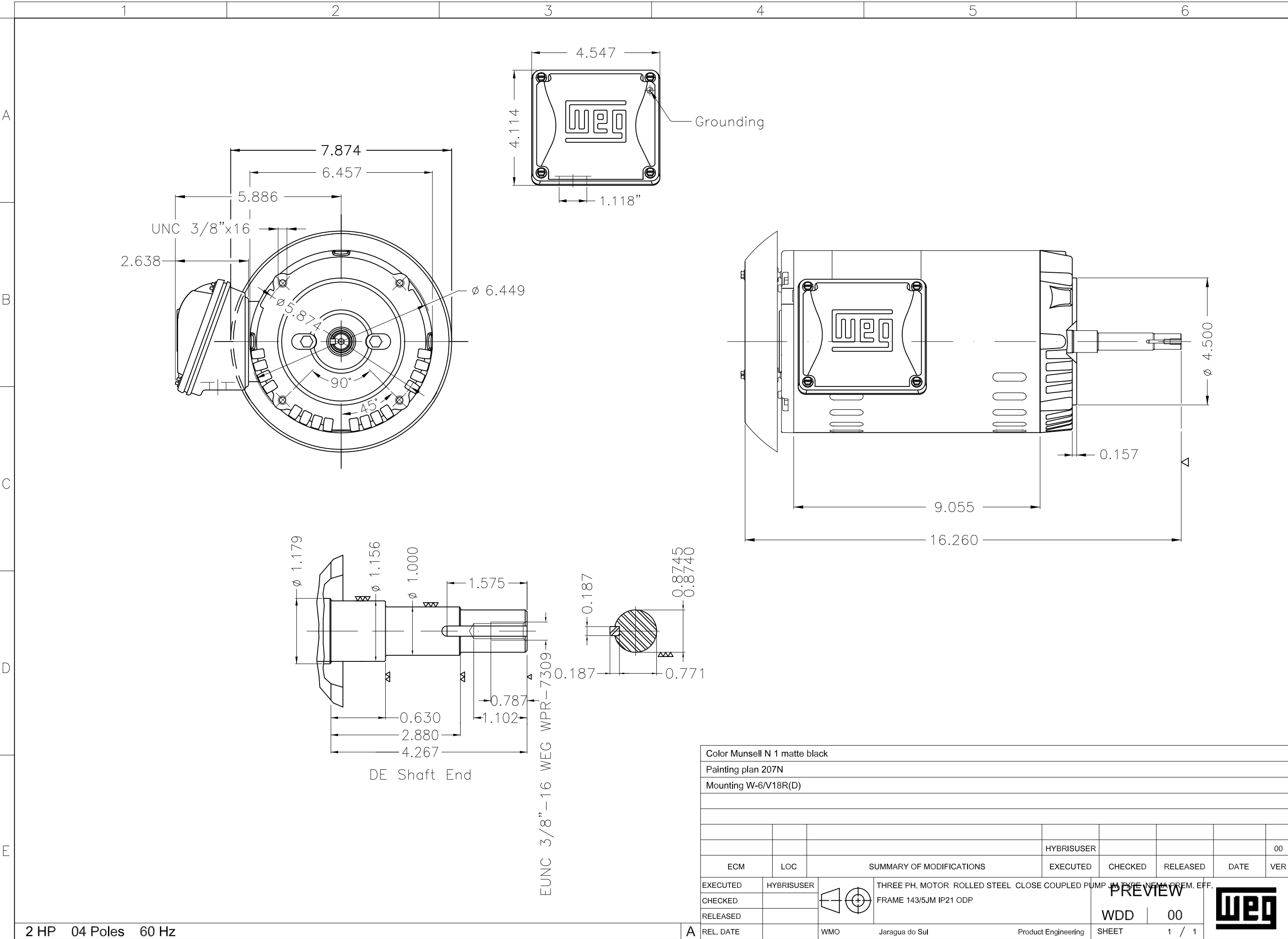


Performance : 575 V 60 Hz 4P

Rated current : 2.15 A
LRC : 7.7
Rated torque : 0.834 kgfm
Locked rotor torque : 260 %
Breakdown torque : 320 %
Rated speed : 1740 rpm

Moment of inertia (J) : 0.0049 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 2Revision	
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Color Munsell N 1 matte black									
Painting plan 207N									
Mounting W-6/V18R(D)									