

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: JM Pump NEMA Premium Efficiency Three-Phase	Product code : 13482592	
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	2	2	2
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	190/380	220/415	220/415
Rated current [A]	5.38/2.69	6.52/3.26	5.90/3.13	5.90/3.13
L. R. Amperes [A]	41.4/20.7	36.5/18.3	36.6/19.4	36.6/19.4
LRC [A]	7.7x(Code K)	5.6x(Code G)	6.2x(Code H)	6.2x(Code H)
No load current [A]	2.75/1.38	2.70/1.35	2.82/1.49	2.82/1.49
Rated speed [RPM]	1740	1410	1420	1420
Slip [%]	3.33	6.00	5.33	5.33
Rated torque [kgfm]	0.834	1.03	1.02	1.02
Locked rotor torque [%]	260	200	220	220
Breakdown torque [%]	320	229	260	260
Service factor		1.00	1.00	1.00
Temperature rise	80 K	105 K	80 K	80 K
Locked rotor time	30s (cold) 17s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%	85.2	88.2	86.4
	50%	85.5	85.9	85.2
	75%	86.5	85.0	85.2
	100%	86.5	82.2	83.4
Power Factor	25%	0.36	0.42	0.38
	50%	0.61	0.69	0.64
	75%	0.74	0.80	0.77
	100%	0.81	0.85	0.83
Bearing type : <u>Drive end</u> 6206 ZZ <u>Non drive end</u> 6203 ZZ Sealing : Without Without Bearing Seal Bearing Seal Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM		Foundation loads Max. traction : 66 kgf Max. compression : 85 kgf		
Notes USABLE @208V 5.95A SF 1.00 SFA 5.95A				
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
Performed by				
Checked by				
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LOAD PERFORMANCE CURVE

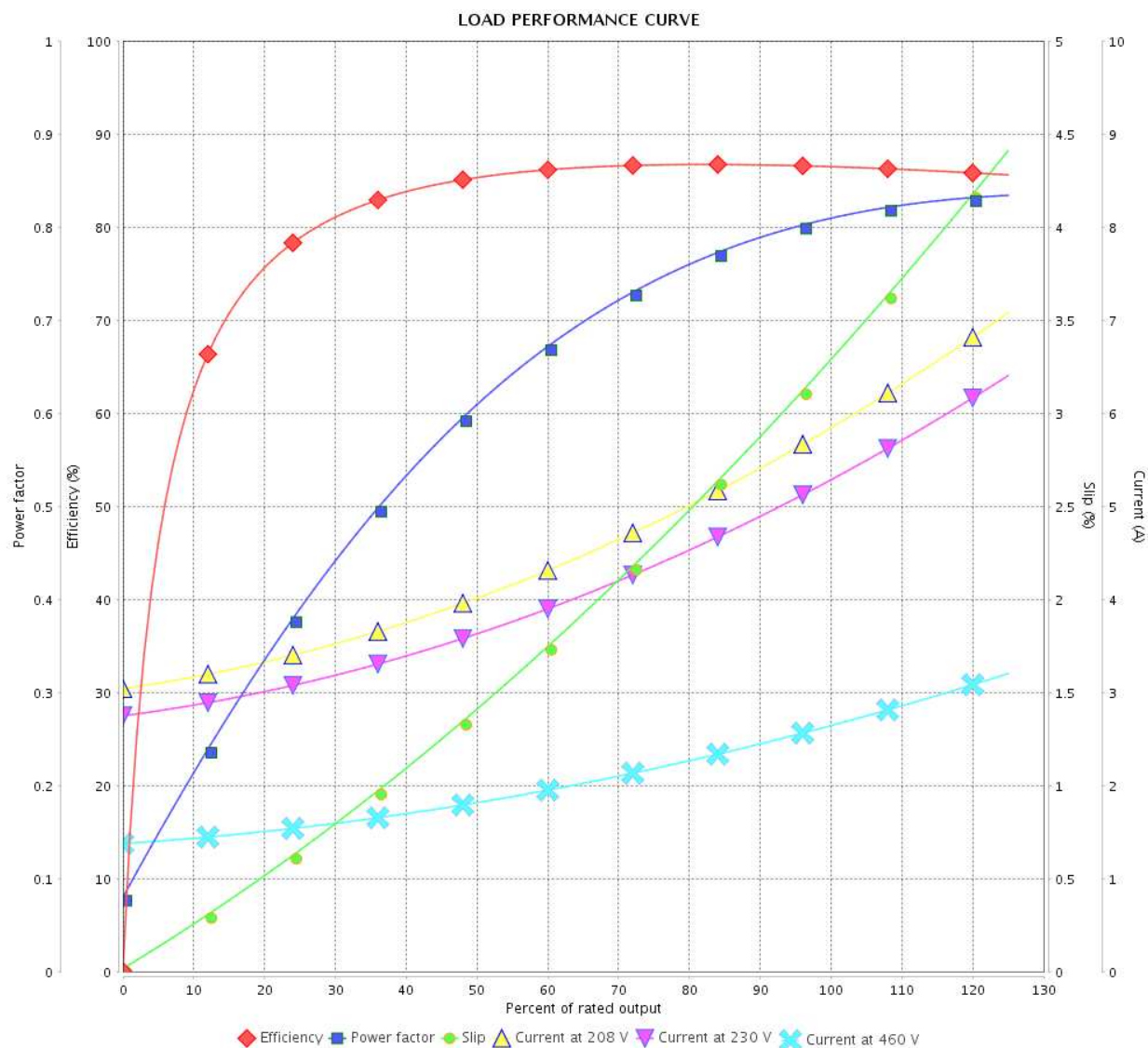
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
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Performance : 230/460 V 60 Hz 4P

Rated current : 5.38/2.69 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 :
 Temperature rise : 80 K
 Design : B

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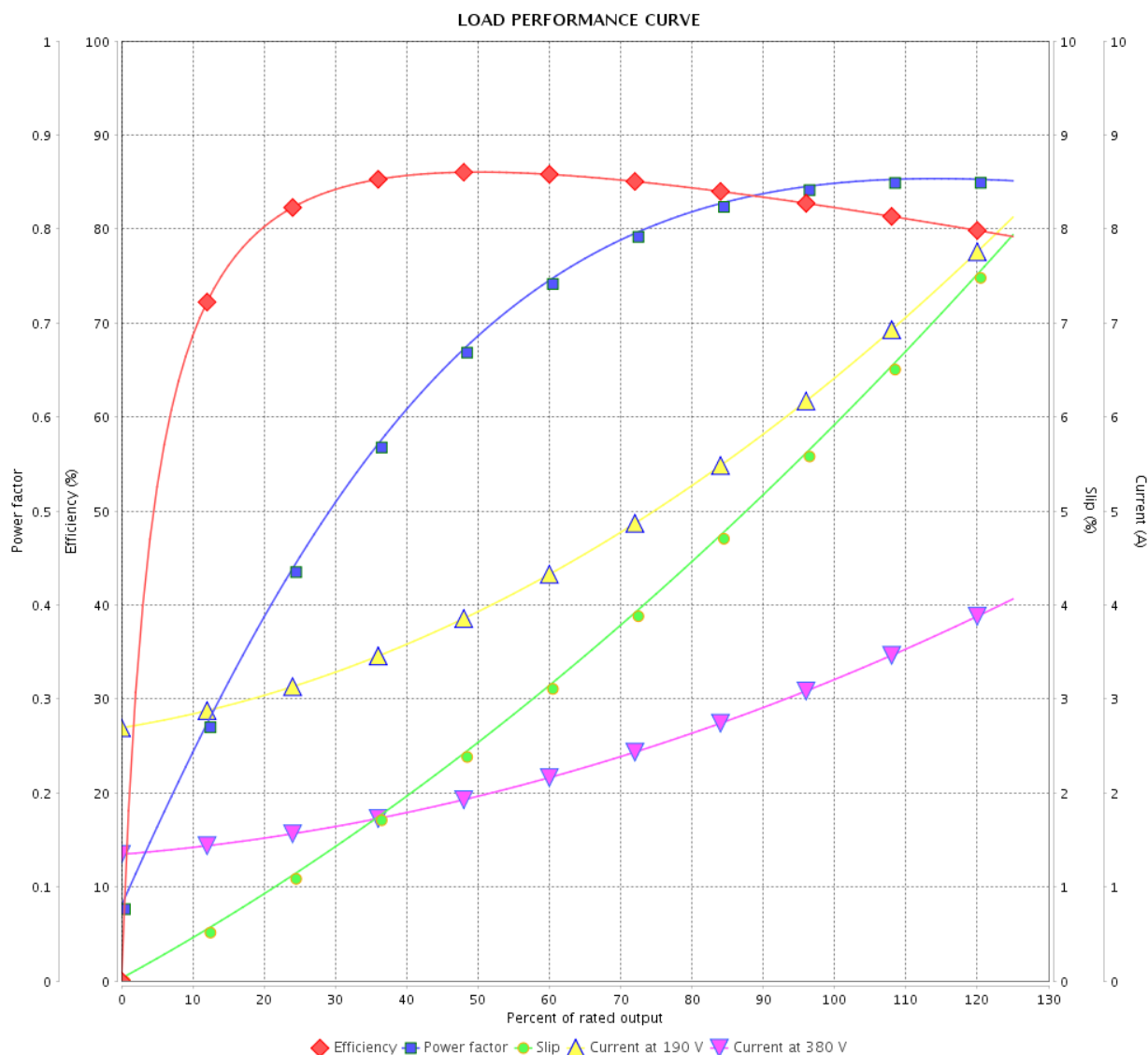
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Performance : 190/380 V 50 Hz 4P

Rated current : 6.52/3.26 A
LRC : 5.6
Rated torque : 1.03 kgfm
Locked rotor torque : 200 %
Breakdown torque : 229 %
Rated speed : 1410 rpm

Moment of inertia (J) : 0.0049 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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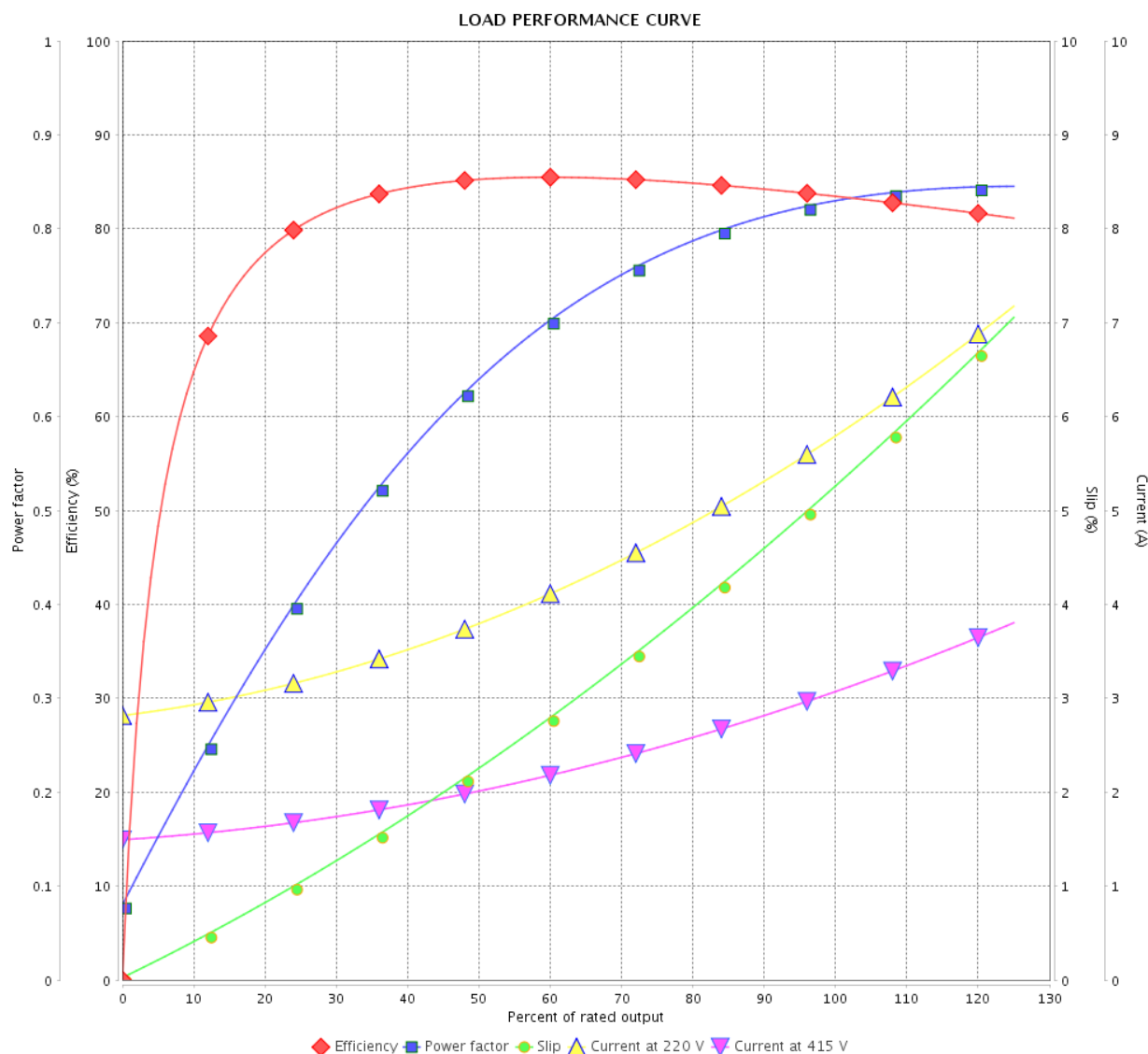
Three Phase Induction Motor - Squirrel Cage



Customer :

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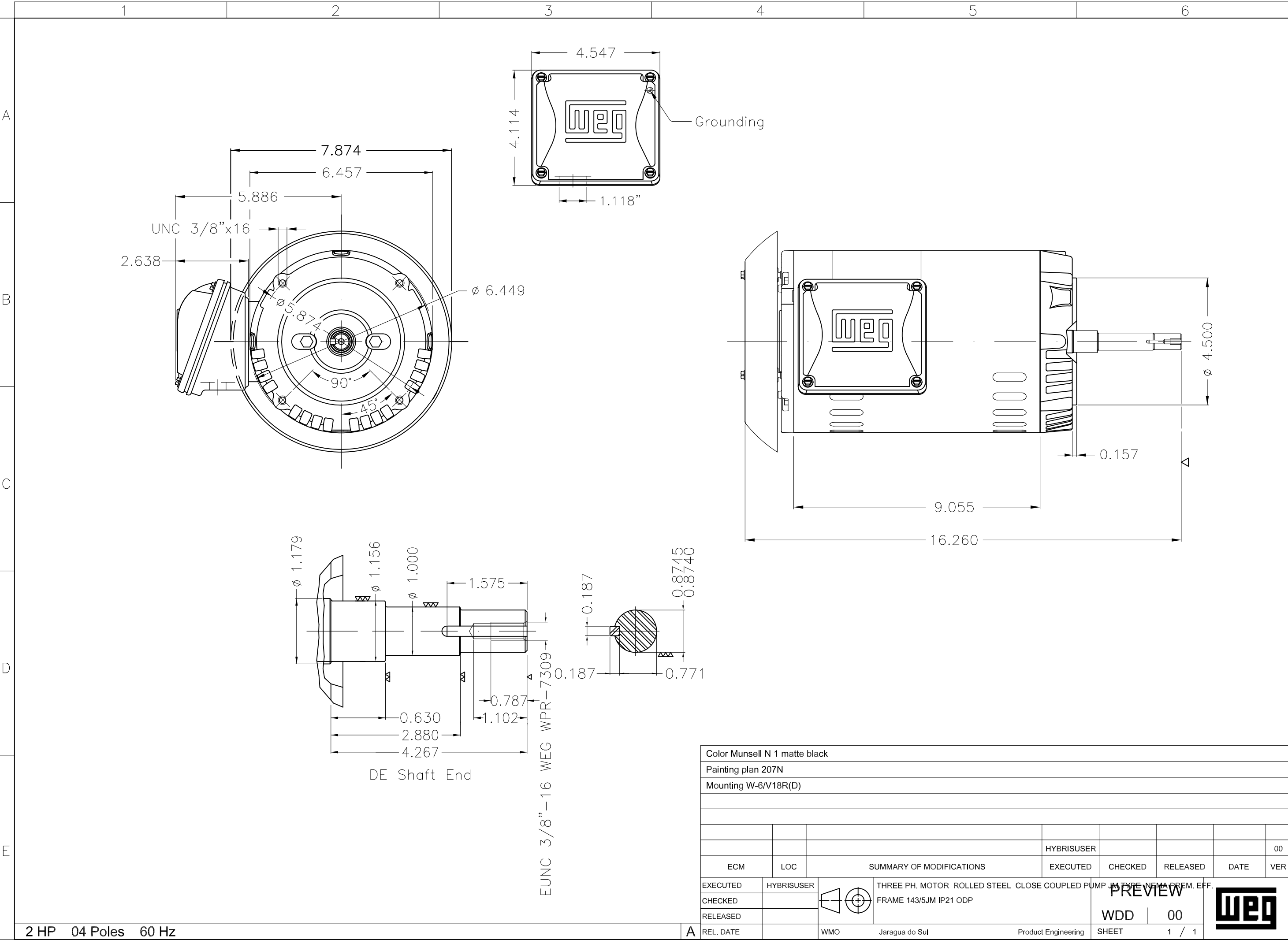


Performance : 220/415 V 50 Hz 4P

Rated current : 5.90/3.13 A
LRC : 6.2
Rated torque : 1.02 kgfm
Locked rotor torque : 220 %
Breakdown torque : 260 %
Rated speed : 1420 rpm

Moment of inertia (J) : 0.0049 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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Color Munsell N 1 matte black									
Painting plan 207N									
Mounting W-6/V18R(D)									