

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase Product code : 14317336

Frame	: W56J	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation ¹	: CCW
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 11.5 kg
Design	: A	Moment of inertia (J)	: 0.0014 kgm ²

Output [HP]	1.5	1.5	1.5
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	4.22/2.11	4.86/2.43	4.51/2.39
L. R. Amperes [A]	37.1/18.6	38.4/19.2	38.3/20.3
LRC [A]	8.8x(Code L)	7.9x(Code K)	8.5x(Code L)
No load current [A]	2.40/1.20	2.40/1.20	2.45/1.30
Rated speed [RPM]	3450	2815	2835
Slip [%]	4.17	6.17	5.50
Rated torque [kgfm]	0.316	0.387	0.384
Locked rotor torque [%]	400	390	440
Breakdown torque [%]	430	310	350
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	23s (cold) 13s (hot)	18s (cold) 10s (hot)	16s (cold) 9s (hot)
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%		
	50%	78.5	80.0
	75%	82.5	81.0
	100%	84.0	82.0
Power Factor	25%		
	50%	0.59	0.65
	75%	0.72	0.77
	100%	0.78	0.84

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6203 2RS	6202 2RS	Max. traction : 37 kgf
Sealing	: Without	Without	Max. compression : 49 kgf
	Bearing Seal	Bearing Seal	
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 4.67A SF 1.00 SFA 4.67A

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.

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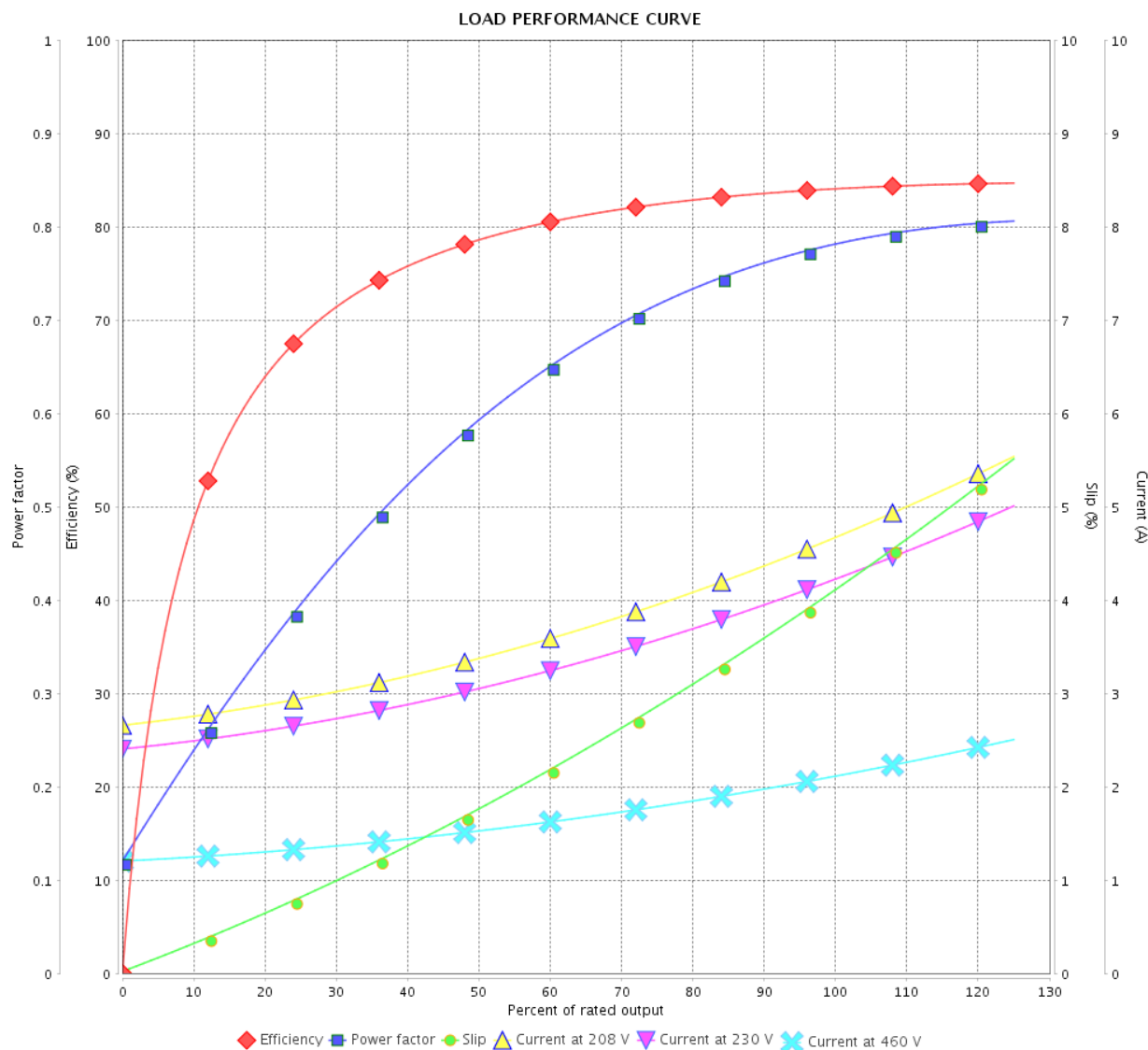
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Performance : 230/460 V 60 Hz 2P

Rated current : 4.22/2.11 A
 LRC : 8.8
 Rated torque : 0.316 kgfm
 Locked rotor torque : 400 %
 Breakdown torque : 430 %
 Rated speed : 3450 rpm

Moment of inertia (J) : 0.0014 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

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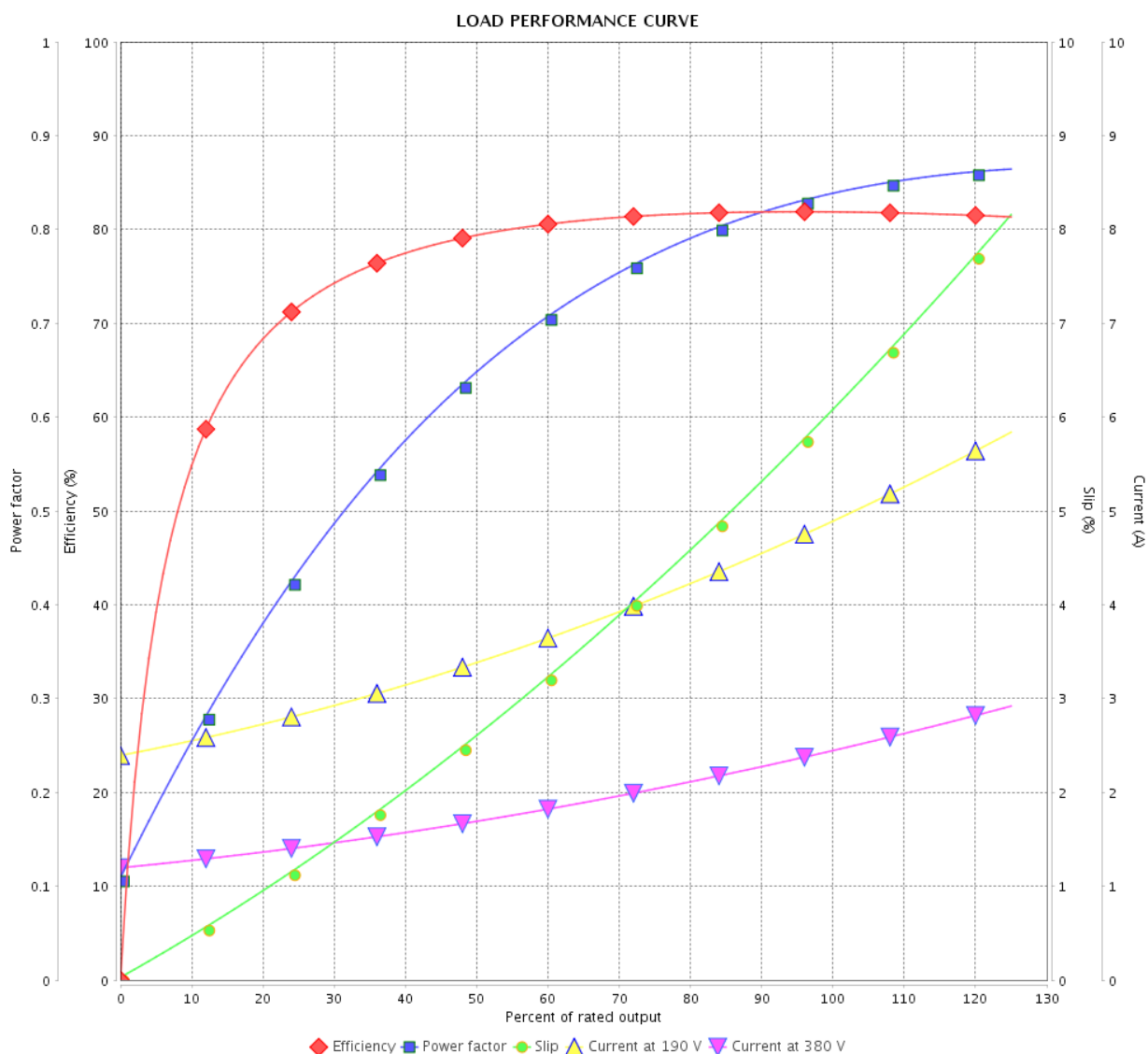
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Performance : 190/380 V 50 Hz 2P

Rated current : 4.86/2.43 A
 LRC : 7.9
 Rated torque : 0.387 kgfm
 Locked rotor torque : 390 %
 Breakdown torque : 310 %
 Rated speed : 2815 rpm

Moment of inertia (J) : 0.0014 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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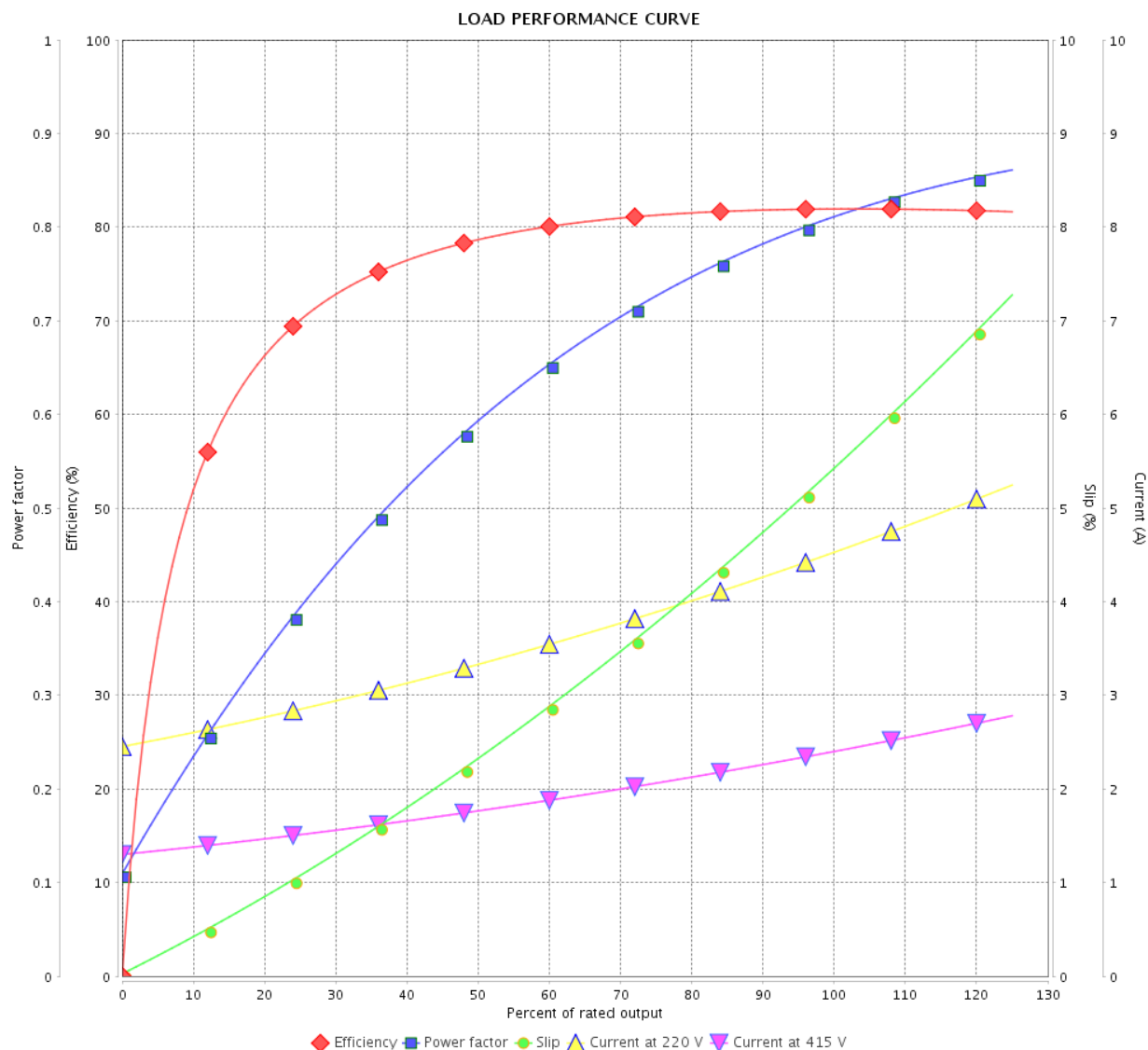
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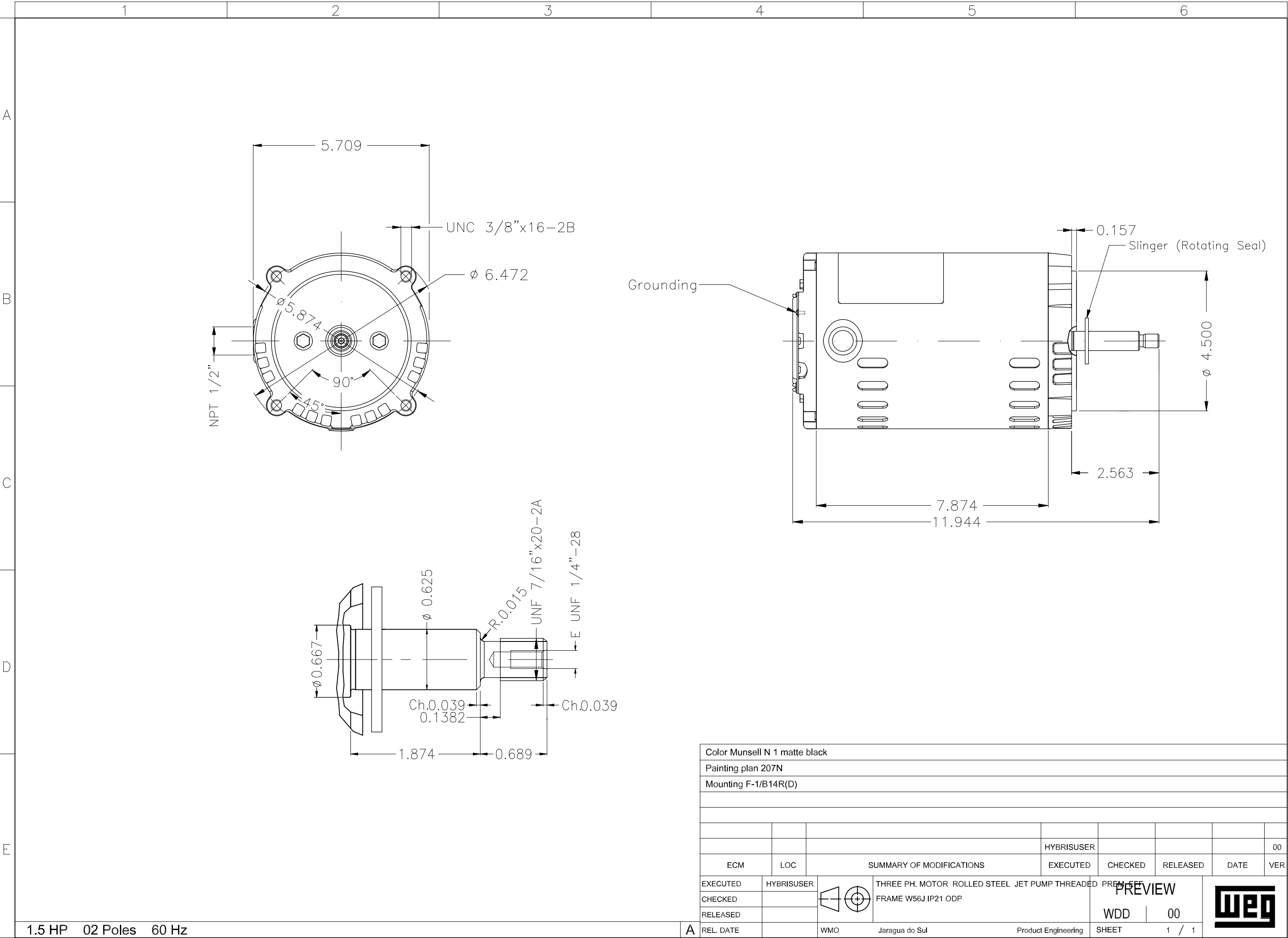


Performance : 220/415 V 50 Hz 2P

Rated current : 4.51/2.39 A
 LRC : 8.5
 Rated torque : 0.384 kgfm
 Locked rotor torque : 440 %
 Breakdown torque : 350 %
 Rated speed : 2835 rpm

Moment of inertia (J) : 0.0014 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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Color Munsell N 1 matte black									
Painting plan 207N									
Mounting F-1/B14R(D)									