

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13505139

Frame	: 56HC	Cooling method	: IC01 - ODP
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>	: 15.1 kg
Design	: A	Moment of inertia (J)	: 0.0044 kgm <sup>2</sup>

Output [HP]	2	1.5	1.5
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	6.22/3.11	5.46/2.73	5.70/3.02
L. R. Amperes [A]	41.7/20.8	36.0/18.0	38.2/20.2
LRC [A]	6.7x(Code K)	6.6x(Code J)	6.7x(Code L)
No load current [A]	4.00/2.00	3.80/1.90	5.09/2.70
Rated speed [RPM]	1740	1445	1455
Slip [%]	3.33	3.67	3.00
Rated torque [kgfm]	0.834	0.753	0.748
Locked rotor torque [%]	240	229	280
Breakdown torque [%]	250	280	340
Service factor		1.15	1.15
Temperature rise	80 K	80 K	105 K
Locked rotor time	12s (cold) 7s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%		
	50%	75.5	67.8
	75%	78.5	74.2
	100%	78.5	76.9
Power Factor	25%		
	50%	0.54	0.43
	75%	0.68	0.56
	100%	0.77	0.66

Bearing type	: Drive end	Non drive end	Foundation loads
	: 6204 ZZ	6202 ZZ	
Sealing	: Without	Without	Max. traction : 74 kgf
	: Bearing Seal	Bearing Seal	
Lubrication interval	: -	-	Max. compression : 89 kgf
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

### Notes

USABLE @208V 6.88A SF 1.00 SFA 6.88A

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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Date	17/05/2022			

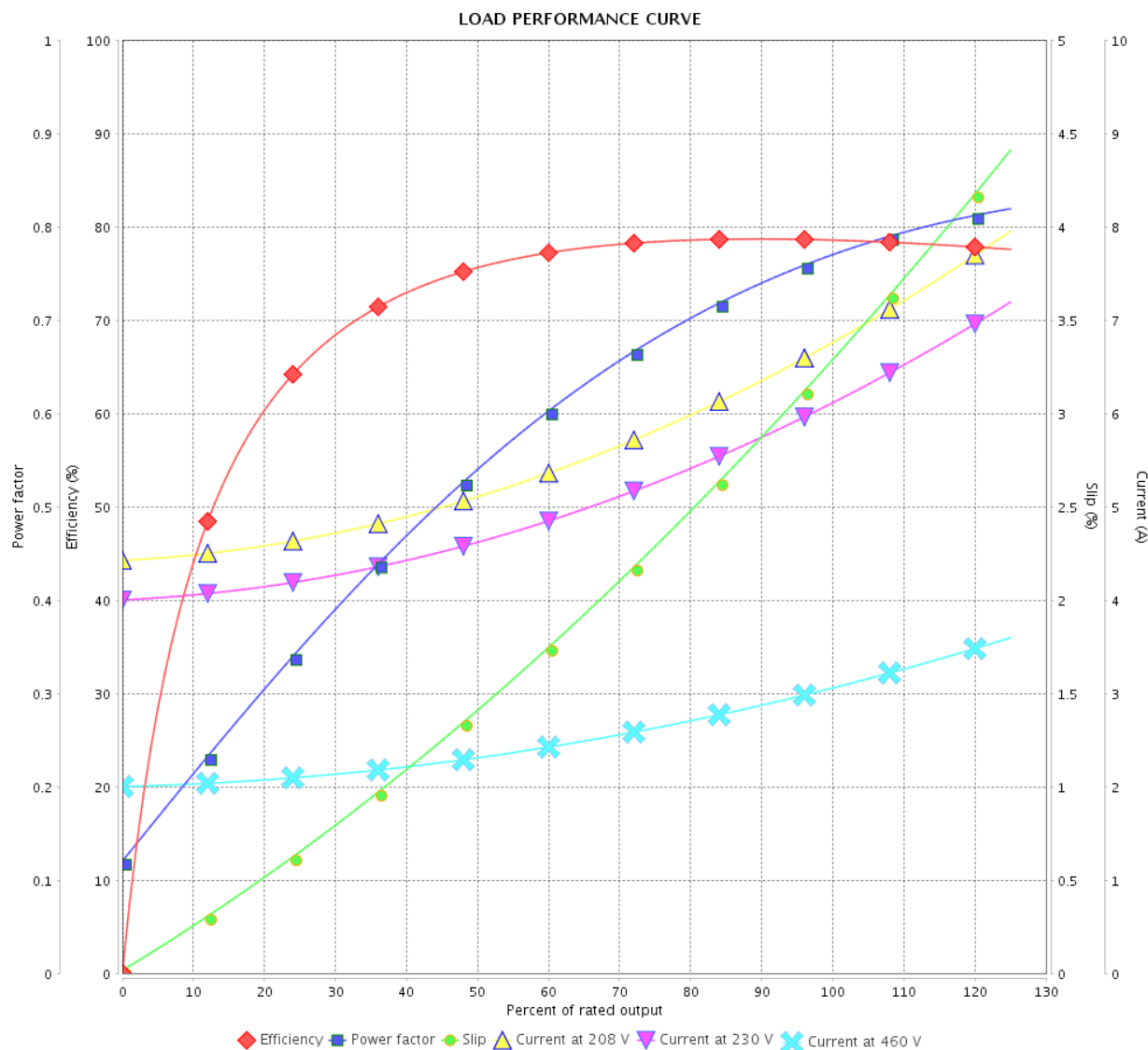
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13505139



Performance : 230/460 V 60 Hz 4P

Rated current : 6.22/3.11 A  
 LRC : 6.7  
 Rated torque : 0.834 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 250 %  
 Rated speed : 1740 rpm

Moment of inertia (J) : 0.0044 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : A

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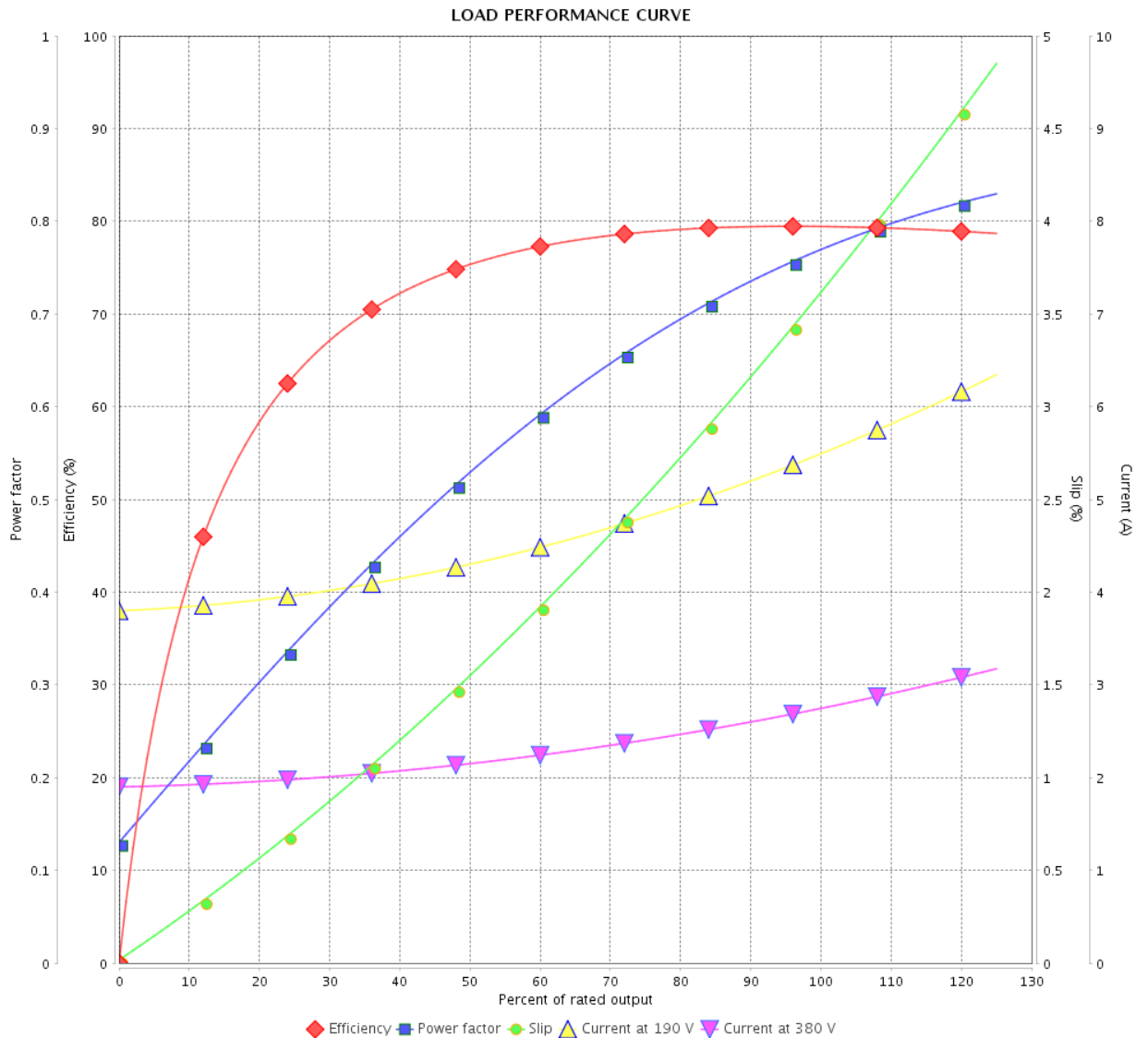
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13505139



Performance : 190/380 V 50 Hz 4P

Rated current	: 5.46/2.73 A	Moment of inertia (J)	: 0.0044 kgm <sup>2</sup>
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 0.753 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1445 rpm	Design	: A

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		Revision		

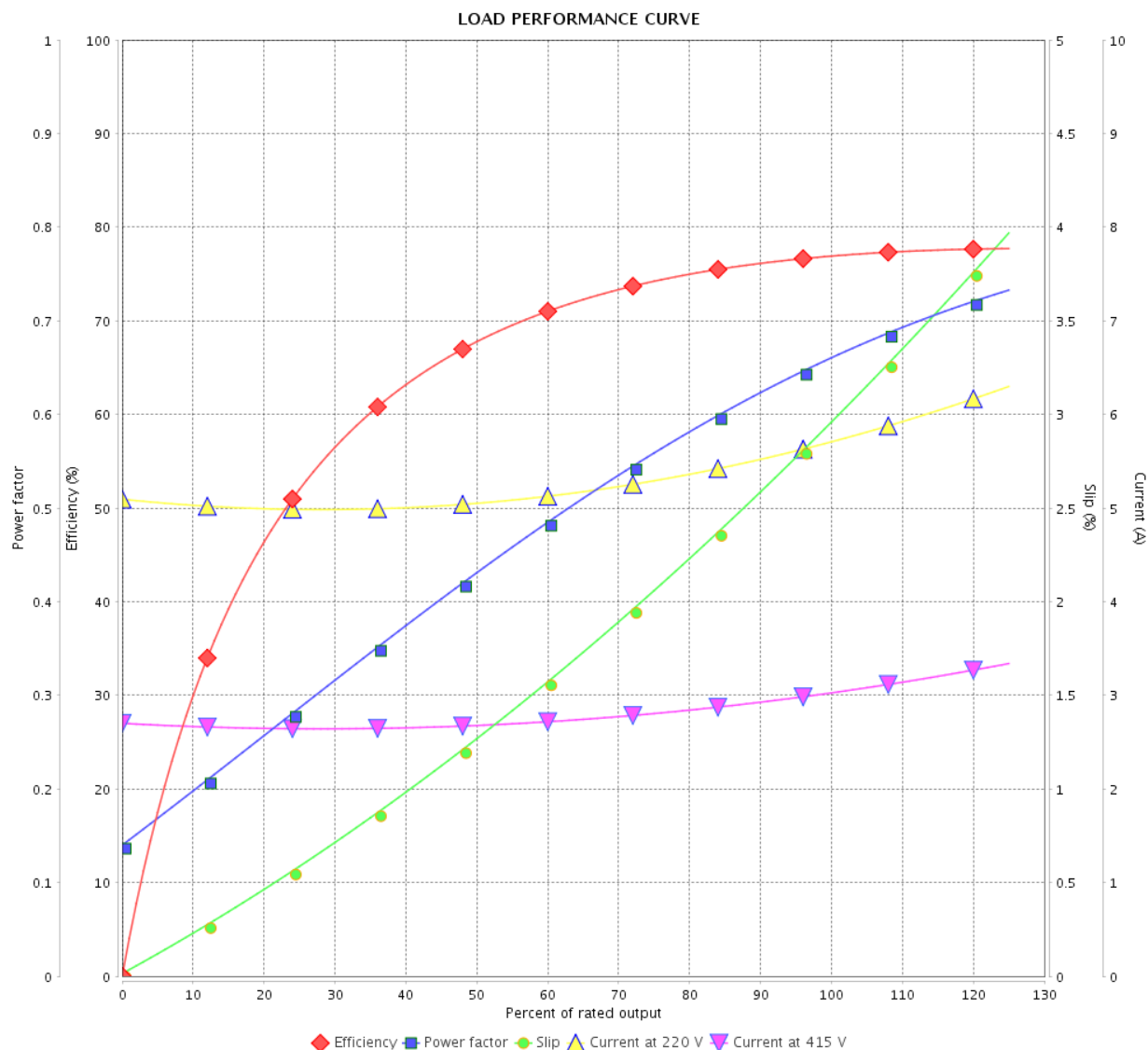
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13505139

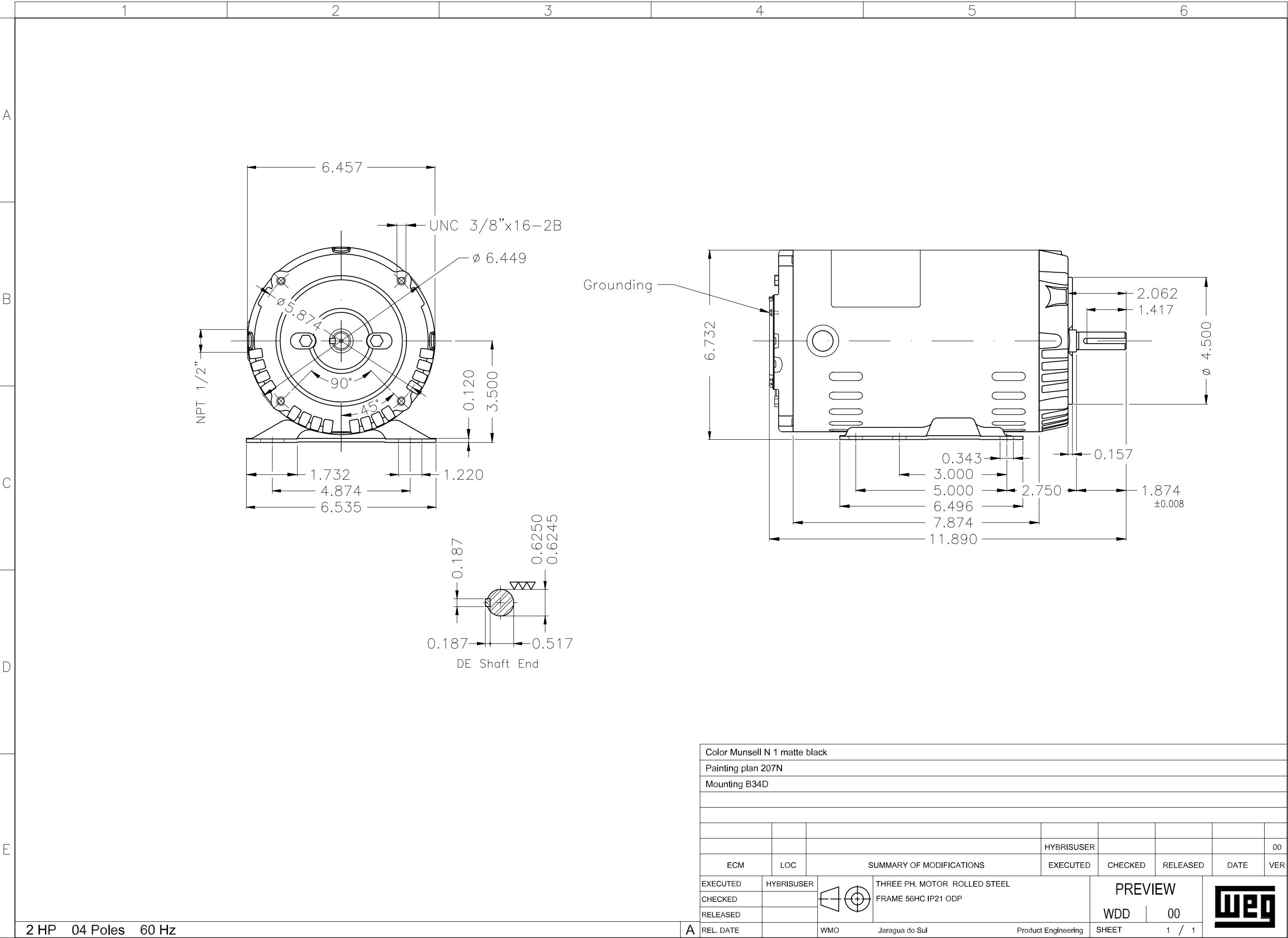


Performance : 220/415 V 50 Hz 4P

Rated current : 5.70/3.02 A  
 LRC : 6.7  
 Rated torque : 0.748 kgfm  
 Locked rotor torque : 280 %  
 Breakdown torque : 340 %  
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.0044 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 105 K  
 Design : A

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Color Munsell N 1 matte black									
Painting plan 207N									
Mounting B34D									