

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13484359

Frame	: 56C	Cooling method	: IC411 - TEFC
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>	: 18.6 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0055 kgm <sup>2</sup>
Design	: B		

Output [HP]	2	2	2
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190-220/380	415
Rated current [A]	5.44/2.72	6.50-5.61/3.25	3.07
L. R. Amperes [A]	44.6/22.3	39.0-33.7/19.5	21.8
LRC [A]	8.2x(Code K)	6.0x(Code H)	7.1x(Code J)
No load current [A]	2.80/1.40	2.75-2.37/1.37	1.64
Rated speed [RPM]	1745	1415	1435
Slip [%]	3.06	5.67	4.33
Rated torque [kgfm]	0.832	1.03	1.01
Locked rotor torque [%]	270	210	270
Breakdown torque [%]	300	240	300
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	27s (cold) 15s (hot)	25s (cold) 14s (hot)	21s (cold) 12s (hot)
Noise level <sup>2</sup>	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%		
	50%	85.5	84.2
	75%	87.5	85.1
	100%	86.5	84.0
Power Factor	25%		
	50%	0.60	0.60
	75%	0.73	0.73
	100%	0.80	0.81

		Drive end	Non drive end	Foundation loads	
Bearing type	:	6204 ZZ	6202 ZZ	Max. traction	: 88 kgf
Sealing	:	V'Ring	Without	Max. compression	: 107 kgf
			Bearing Seal		
Lubrication interval	:	-	-		
Lubricant amount	:	-	-		
Lubricant type	:	Mobil Polyrex EM			

### Notes

USABLE @208V 6.02A SF 1.00 SFA 6.02A

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	11/05/2022			

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Revision

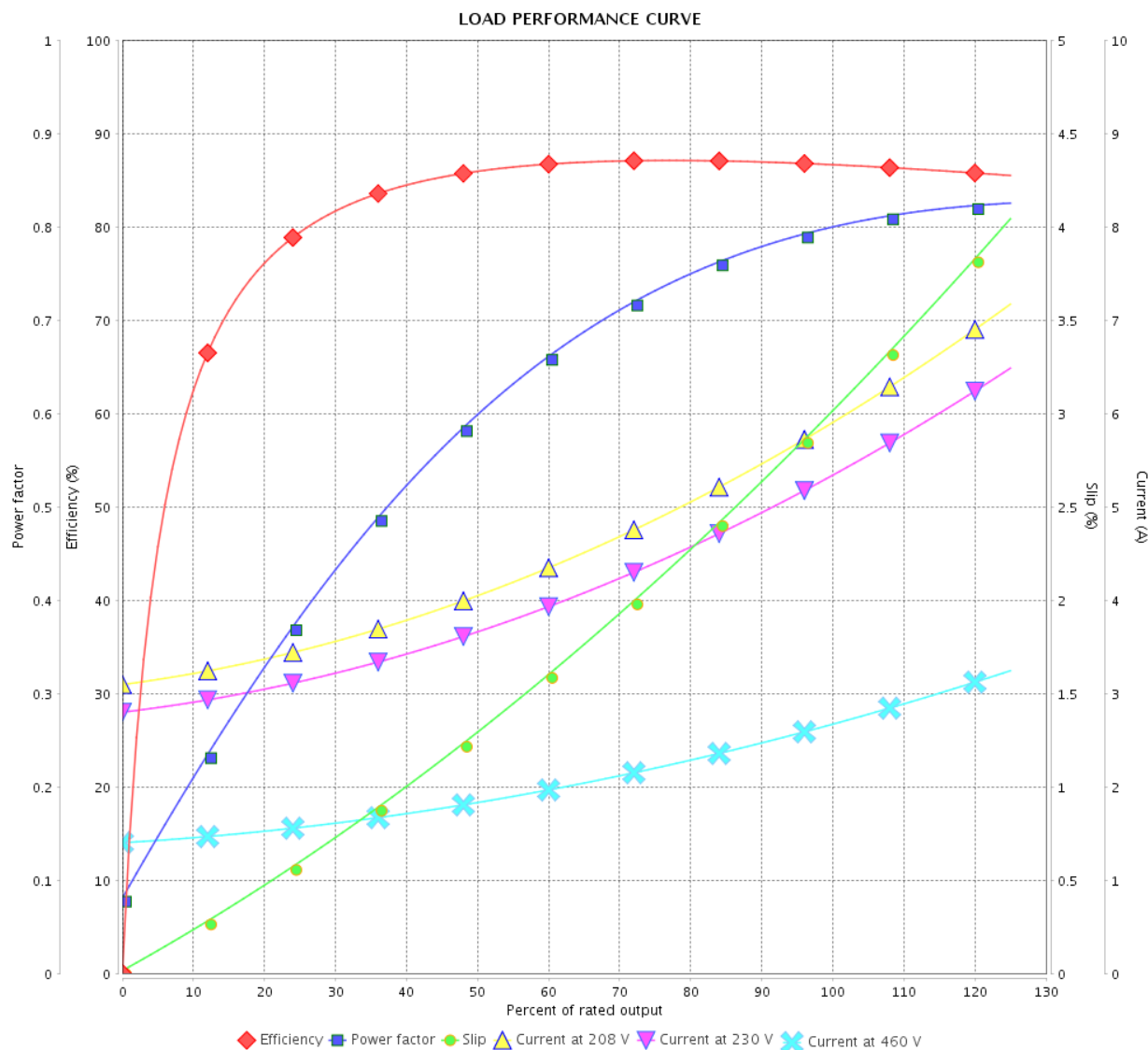
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13484359



Performance : 230/460 V 60 Hz 4P

Rated current : 5.44/2.72 A  
 LRC : 8.2  
 Rated torque : 0.832 kgfm  
 Locked rotor torque : 270 %  
 Breakdown torque : 300 %  
 Rated speed : 1745 rpm

Moment of inertia (J) : 0.0055 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : B

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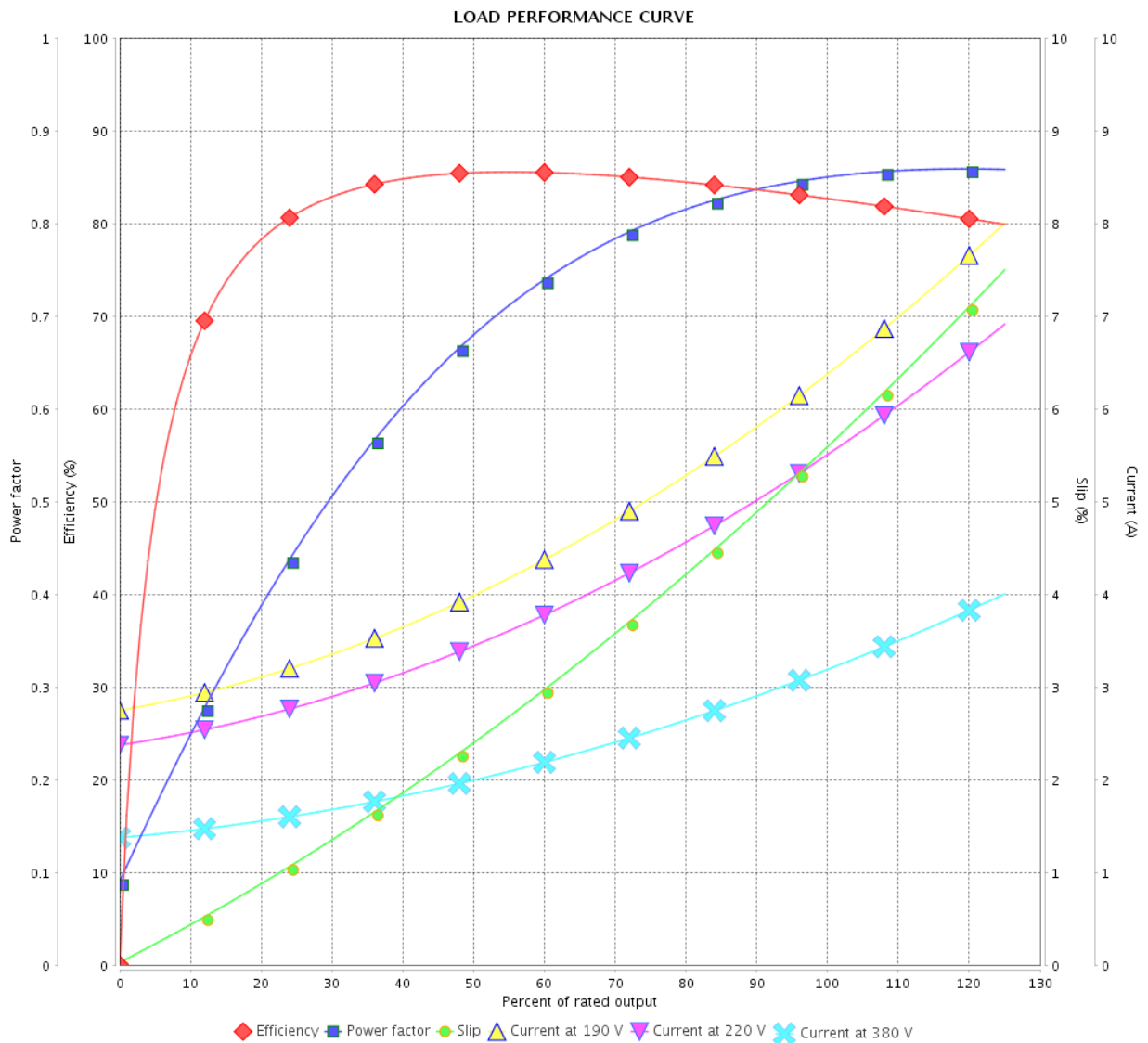
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13484359



Performance : 190-220/380 V 50 Hz 4P

Rated current : 6.50-5.61/3.25 A  
 LRC : 6.0  
 Rated torque : 1.03 kgfm  
 Locked rotor torque : 210 %  
 Breakdown torque : 240 %  
 Rated speed : 1415 rpm

Moment of inertia (J) : 0.0055 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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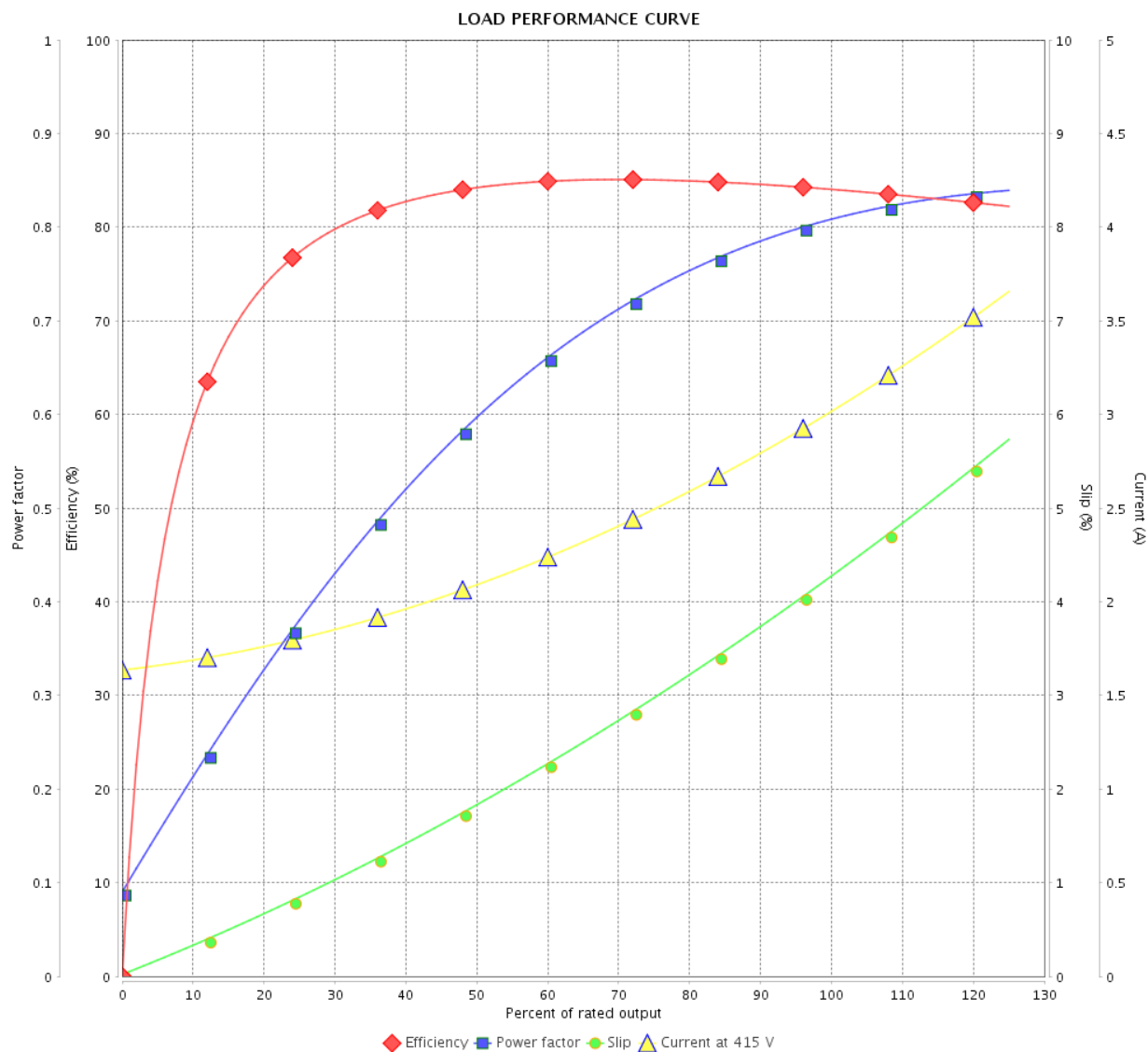
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

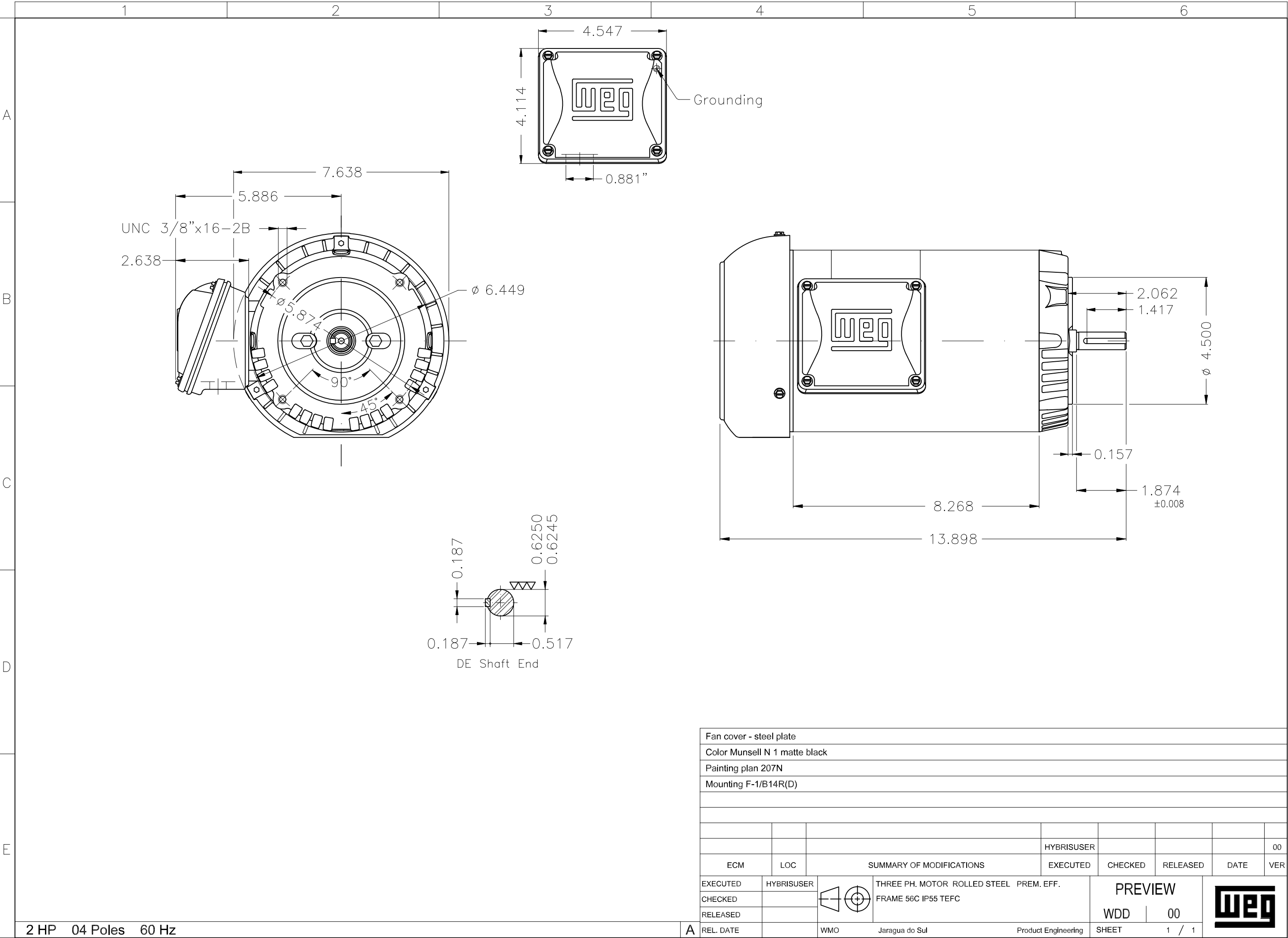
Product line : Premium Efficiency Three-Phase Product code : 13484359



Performance : 415 V 50 Hz 4P

Rated current	: 3.07 A	Moment of inertia (J)	: 0.0055 kgm <sup>2</sup>
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 1.01 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1435 rpm	Design	: B

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