

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase			
Product code :	13413922			
Catalog # :	01036OT3V213TC-S			
Frame : 213/5TC Output : 10 HP (7.5 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 200/400 V Rated current : 27.6/13.8 A L. R. Amperes : 188/93.8 A LRC : 6.8x(Code H) No load current : 10.7/5.36 A Rated speed : 3535 rpm Slip : 1.81 % Rated torque : 14.9 ft.lb Locked rotor torque : 200 % Breakdown torque : 280 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.4651 sq.ft.lb Design : B	Locked rotor time : 19s (cold) 11s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Cooling method : IC01 - ODP Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 66.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 126 lb			
Output	25% 50% 75% 100%			
Efficiency (%)	88.3 88.5 89.5 89.5			
Power Factor	0.47 0.74 0.84 0.88			
Foundation loads				
Max. traction	: 171 lb			
Max. compression	: 297 lb			
Bearing type	: <u>Drive end</u> 6208 ZZ <u>Non drive end</u> 6206 ZZ			
Sealing	: Without Bearing Seal Without Bearing Seal			
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.				
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Performed by				
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



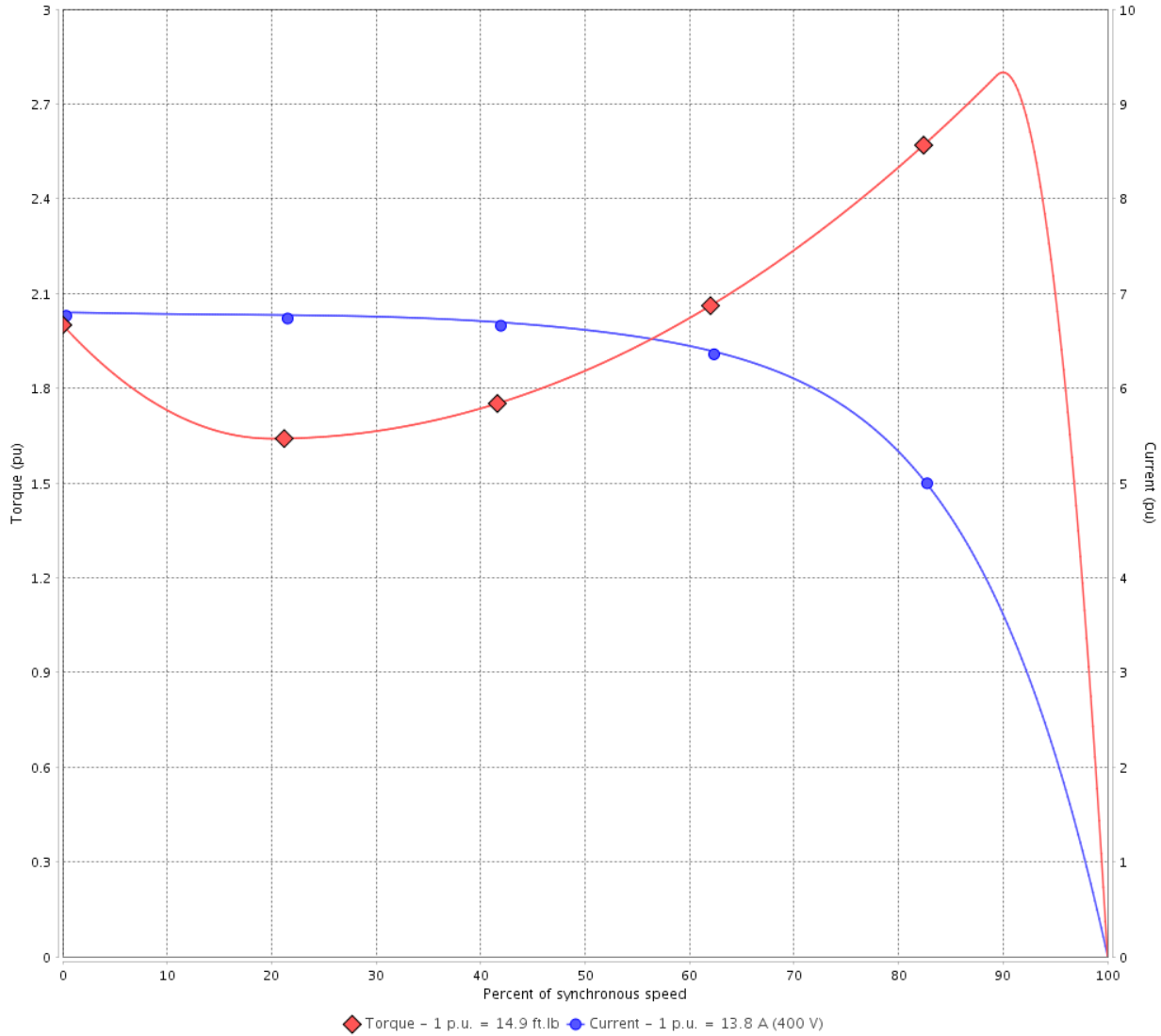
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 13413922

Catalog # : 010360T3V213TC-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 200/400 V 60 Hz 2P

Rated current	: 27.6/13.8 A	Moment of inertia (J)	: 0.4651 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 14.9 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 3535 rpm	Design	: B

Locked rotor time : 19s (cold) 11s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

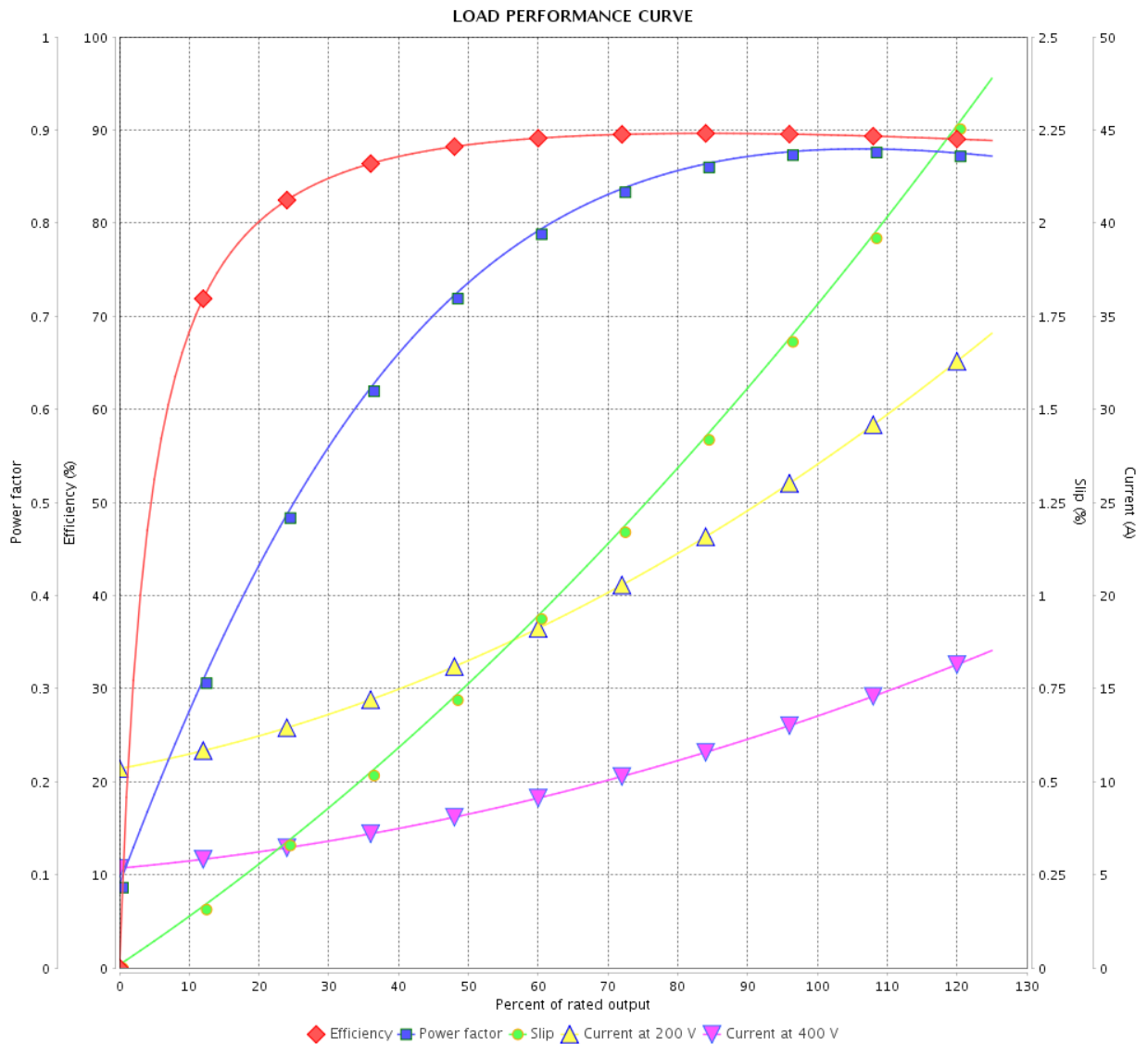


Customer :

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Product code : 13413922

Catalog # : 01036OT3V213TC-S



Performance : 200/400 V 60 Hz 2P

Rated current : 27.6/13.8 A
 LRC : 6.8
 Rated torque : 14.9 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 280 %
 Rated speed : 3535 rpm

Moment of inertia (J) : 0.4651 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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THERMAL LIMIT CURVE



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Rated speed : 3535 rpm	Design : B

Heating constant

Cooling constant

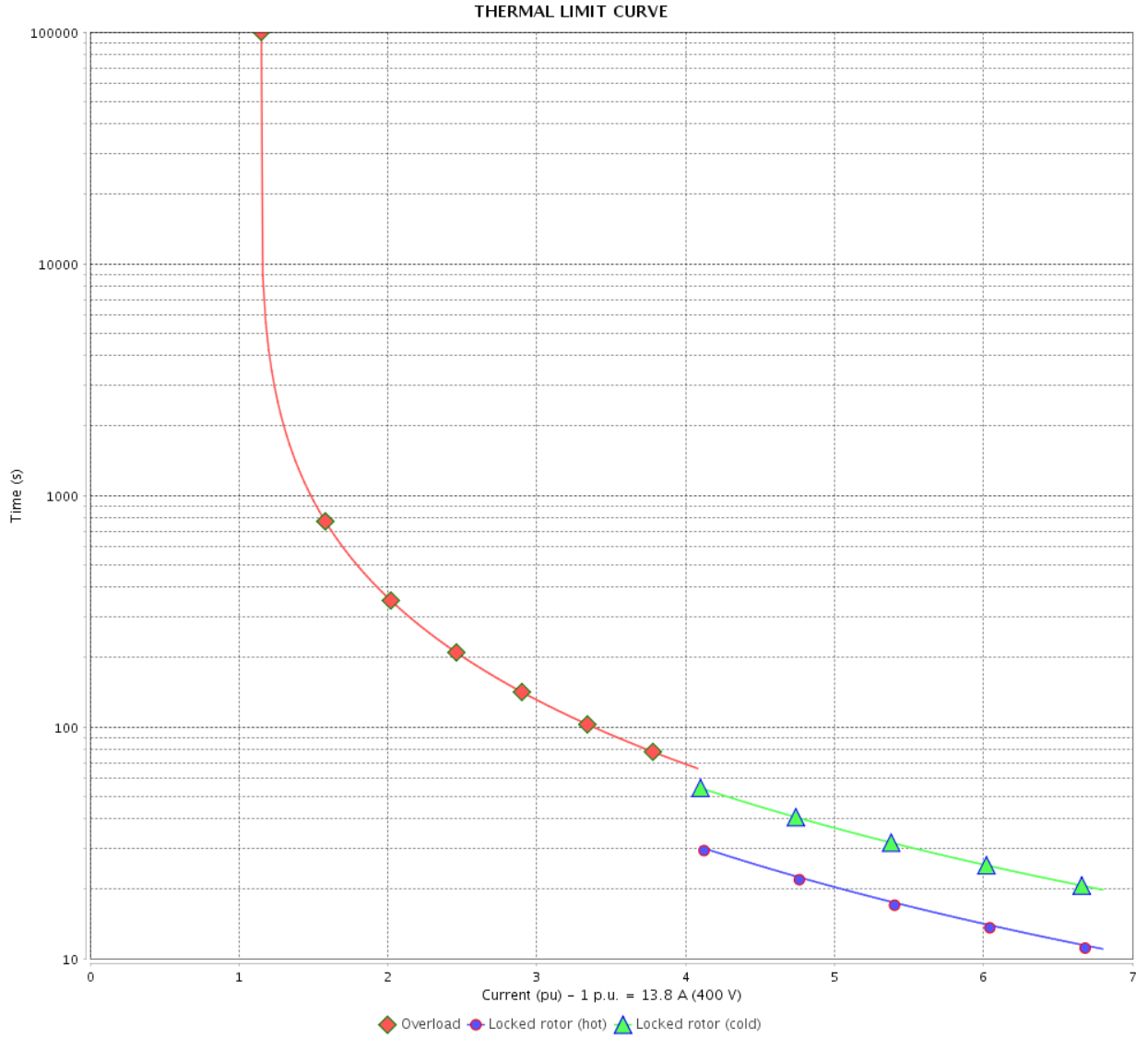
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

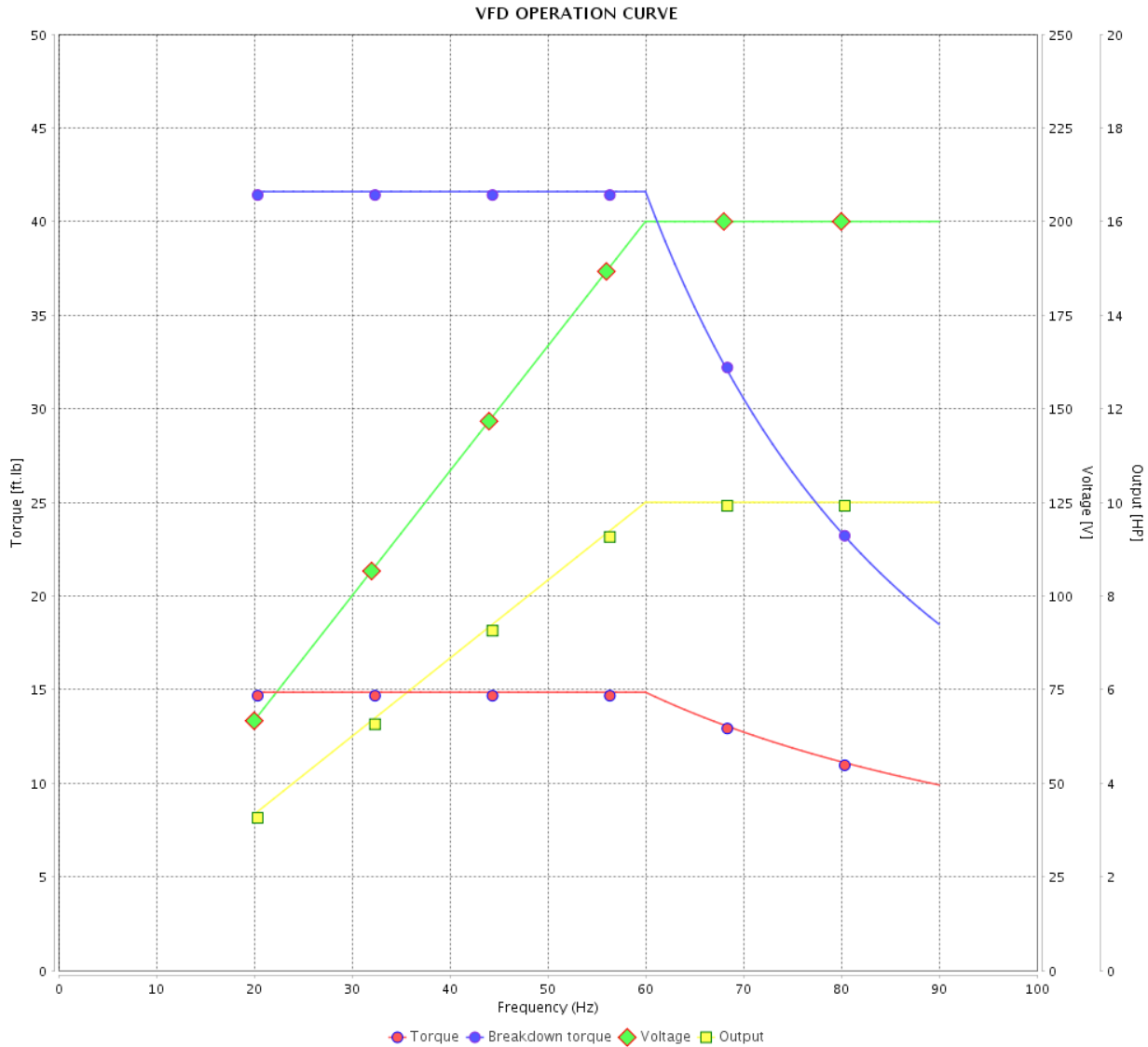


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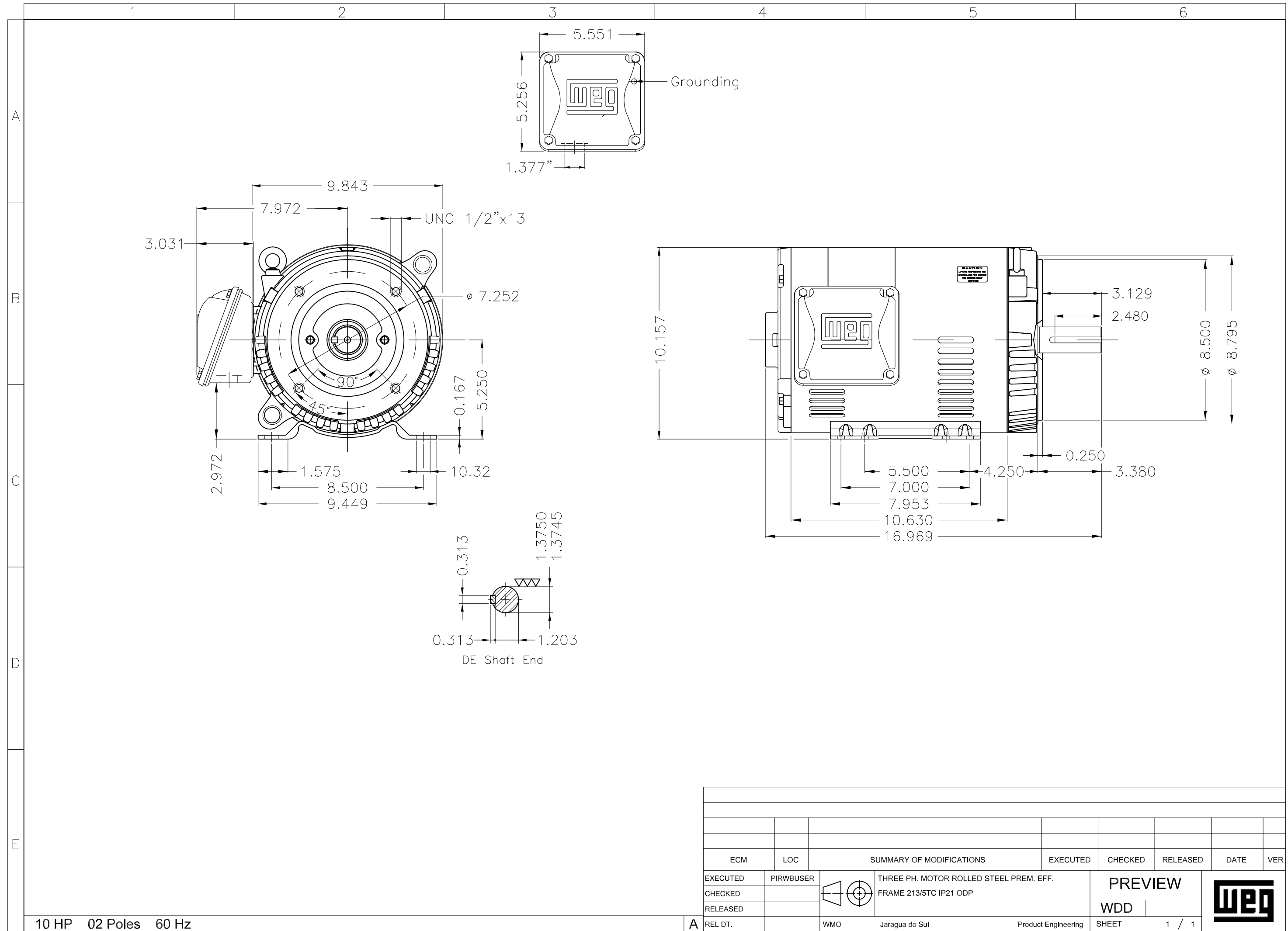
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 LRC : 6.8
 Rated torque : 14.9 ft.lb
 Locked rotor torque : 200 %
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Moment of inertia (J) : 0.4651 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
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Color Munsell N 1 matte black
 Painting plan 207N
 Mounting F-1/B34R(D)



Dimensions in inches

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF. FRAME 213/5TC IP21 ODP					
CHECKED							
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET 1 / 1		PREVIEW WDD 	

10 HP 02 Poles 60 Hz