

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase			
Product code :	12675407			
Catalog # :	01018ET3H215T-S			
Frame : 213/5T Output : 10 HP (7.5 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 575 V Rated current : 9.76 A L. R. Amperes : 68.3 A LRC : 7.0x(Code H) No load current : 4.43 A Rated speed : 1760 rpm Slip : 2.22 % Rated torque : 29.8 ft.lb Locked rotor torque : 250 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.07 sq.ft.lb Design : B	Locked rotor time : 27s (cold) 15s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : F-1 Rotation <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 60.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 128 lb			
Output	25%    50%    75%    100%			
Efficiency (%)	90.2    91.0    91.0    91.7			
Power Factor	0.41    0.67    0.78    0.84			
Foundation loads				
Max. traction : 441 lb				
Max. compression : 569 lb				
Bearing type	: <u>Drive end</u> 6208 ZZ <u>Non drive end</u> 6206 ZZ			
Sealing	: V'Ring      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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# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



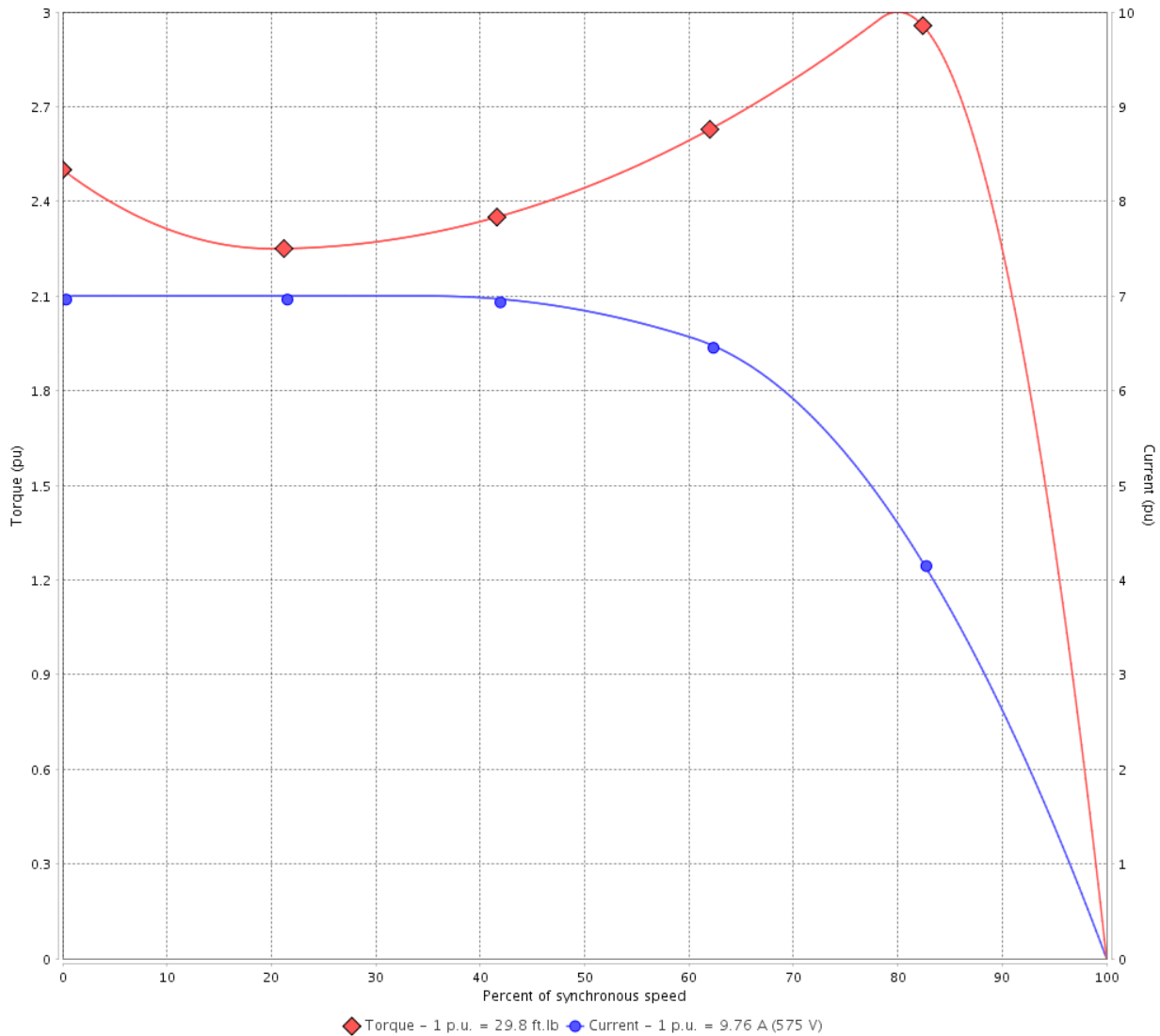
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12675407

Catalog # : 01018ET3H215T-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 4P

Rated current	: 9.76 A	Moment of inertia (J)	: 1.07 sq.ft.lb
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 29.8 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

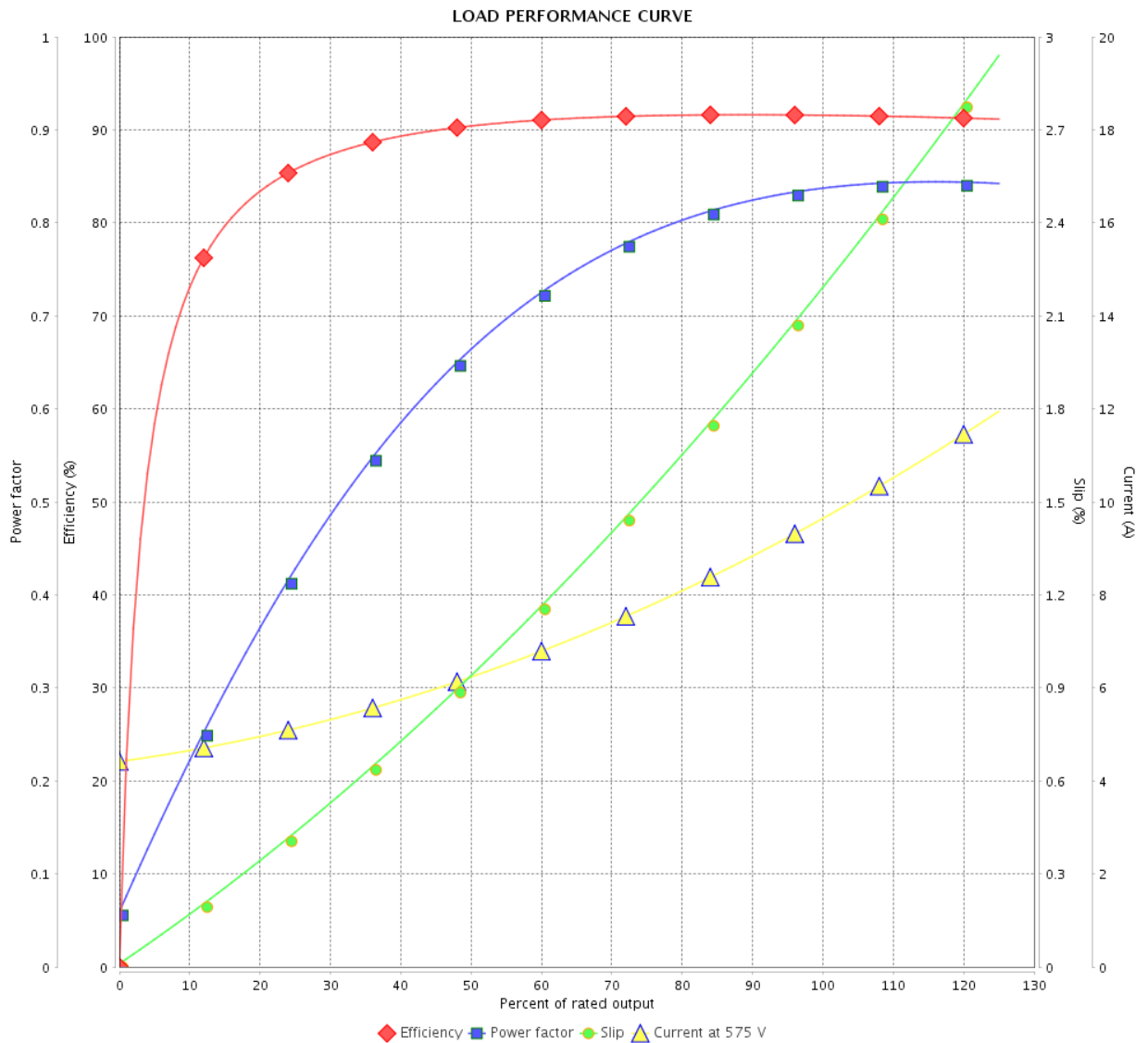


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12675407

Catalog # : 01018ET3H215T-S



Performance : 575 V 60 Hz 4P

Rated current : 9.76 A  
 LRC : 7.0  
 Rated torque : 29.8 ft.lb  
 Locked rotor torque : 250 %  
 Breakdown torque : 300 %  
 Rated speed : 1760 rpm

Moment of inertia (J) : 1.07 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



## Three Phase Induction Motor - Squirrel Cage

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 Product code : 12675407  
 Catalog # : 01018ET3H215T-S

Performance : 575 V 60 Hz 4P

Rated current : 9.76 A	Moment of inertia (J) : 1.07 sq.ft.lb
LRC : 7.0	Duty cycle : Cont.(S1)
Rated torque : 29.8 ft.lb	Insulation class : F
Locked rotor torque : 250 %	Service factor : 1.15
Breakdown torque : 300 %	Temperature rise : 80 K
Rated speed : 1760 rpm	Design : B

Heating constant

Cooling constant

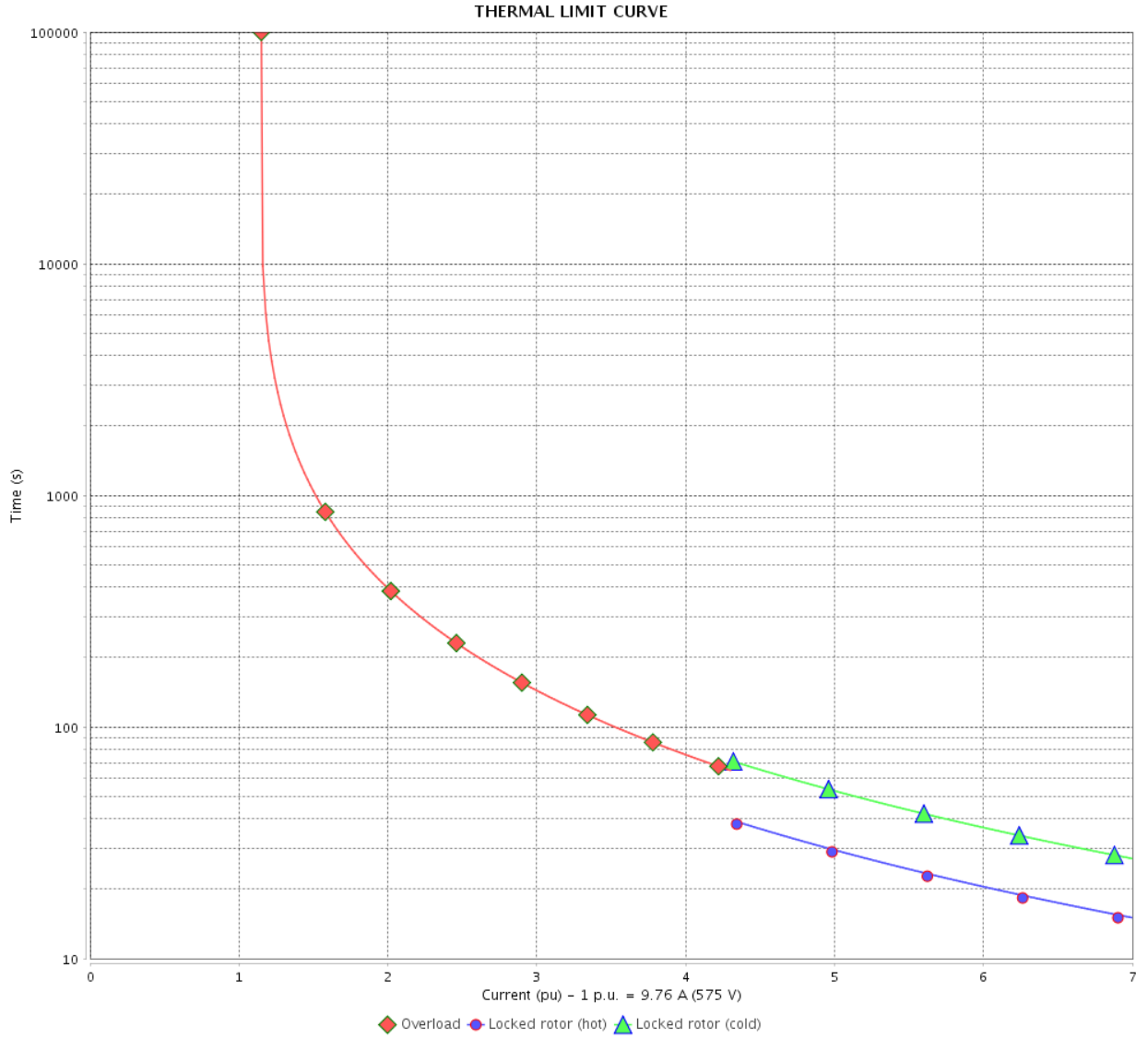
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Performed by			Page	Revision
Checked by				
Date	12/04/2022			

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_



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Date				

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



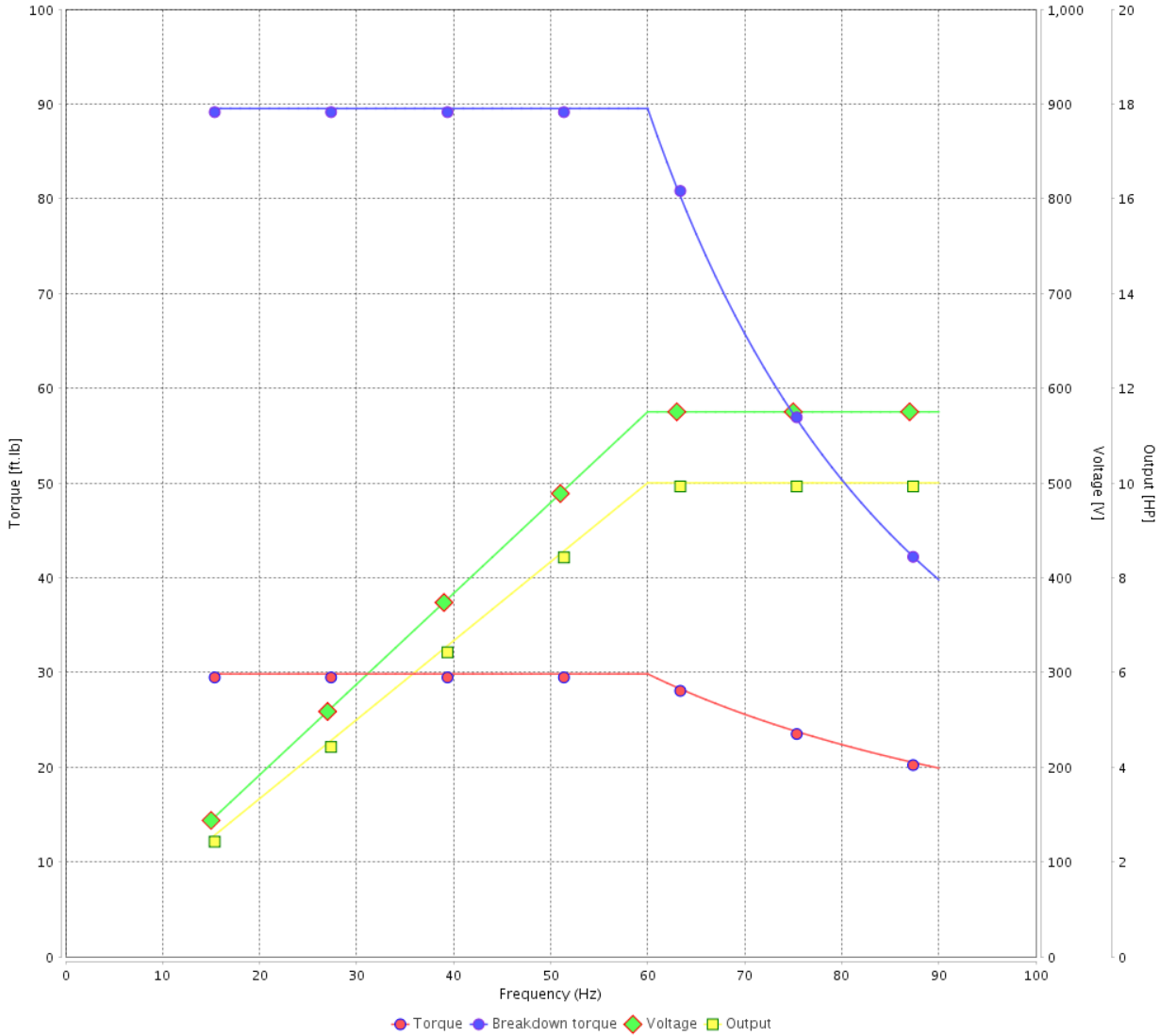
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12675407

Catalog # : 01018ET3H215T-S

VFD OPERATION CURVE

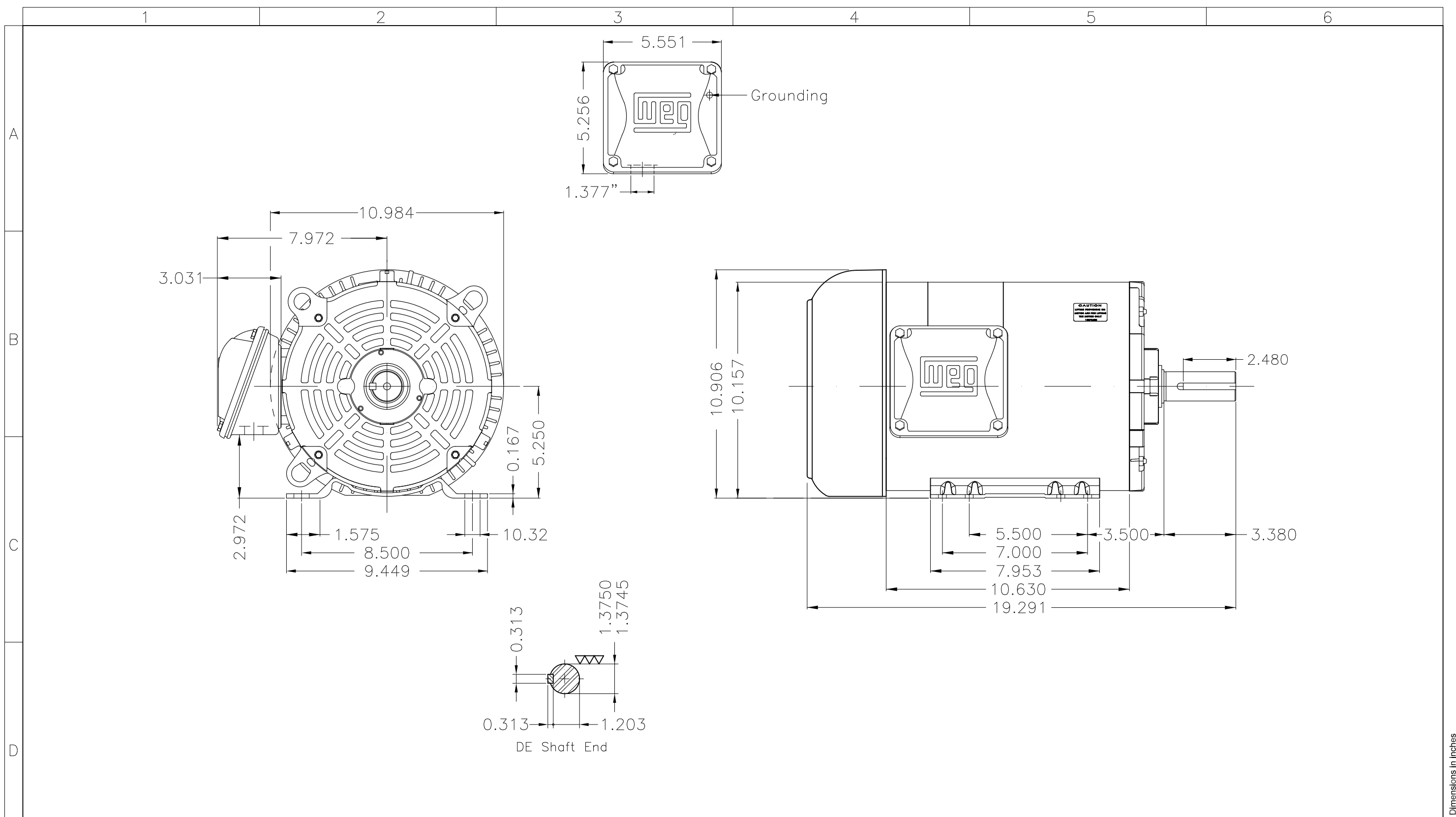



Performance : 575 V 60 Hz 4P

Rated current : 9.76 A  
 LRC : 7.0  
 Rated torque : 29.8 ft.lb  
 Locked rotor torque : 250 %  
 Breakdown torque : 300 %  
 Rated speed : 1760 rpm

Moment of inertia (J) : 1.07 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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Color Munsell N 1 matte black									
Painting plan 207N									
Mounting F-1/B3R(D)									
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF.				<b>PREVIEW</b> WDD			
CHECKED		FRAME 213/5T IP55 TEFC							
RELEASED									
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1				

10 HP 04 Poles 60 Hz

Dimensions in inches XME A3



**NEMA**  
**Premium**



MADE IN MEXICO

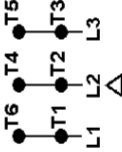
**MAT: 12675407 CC029A**  
**W01.TE0IC0X0N**  
**HT010504NPW01**  
**31MAR2022 S/N:**

**For 60Hz: Class I, Zone 2, IIC**  
**Class I, Div.2, Gr. A,B,C,D - T3**  
**Div 2 Inverter Duty (SF1.00)**  
**CT 2:1/VT 1000:1**

<b>PH 3</b>	<b>Hz 60</b>	<b>HP 10</b>
<b>FR 213/5T</b>		<b>KW 7.5</b>
<b>DUTY CONT.</b>		<b>V 575</b>
<b>ALT 1000 m.a.s.l.</b>		<b>A 9.76</b>
<b>INS CL F AT 80K</b>	<b>IP55</b>	<b>SFA 11.2</b>
<b>AMB 40°C</b>	<b>DES B</b>	<b>SF 1.15</b>
<b>ENCL TEFC</b>	<b>CODE H</b>	<b>PF 0.84</b>
		<b>RPM 1760</b>
		<b>NEMA</b>
		<b>NOM. EFF 91.7%</b>

**For safe area-Inverter duty motor For use on VPWM 1000:1 VT, 4:1 CT**

**DE 6208-ZZ ODE 6206-ZZ MOBIL POLYREX EM**



T1-BLU  
T2-WHT  
T3-ORG  
T4-YEL  
T5-BLK  
T6-GRY

**INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION**

**WARNING:** Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical shocks. Disconnect power source before servicing unit.



**AVERTISSEMENT:** Le moteur doit être mis à la terre

conformément aux codes électriques locaux et nationaux afin d'éviter tout choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine.

