

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: Rolled Steel NEMA Premium Efficiency Three-Phase		Product code : 14593694
				Catalog # : 01018ET3EBMR215TC-S
Frame : 213/5TC Output : 10 HP (7.5 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 230/460 V Rated current : 24.4/12.2 A L. R. Amperes : 171/85.4 A LRC : 7.0x(Code H) No load current : 11.1/5.54 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 ¹ : Both (CW and CCW) Noise level ² : 60.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 165 lb		
Output	50%	75%	100%	Foundation loads
Efficiency (%)	91.0	91.0	91.7	Max. traction : 507 lb
Power Factor	0.67	0.78	0.84	Max. compression : 672 lb
		<u>Drive end</u>	<u>Non drive end</u>	
Bearing type	:	6208 ZZ	6206 ZZ	
Sealing	:	V'Ring	V'Ring	
Lubrication interval	:	-	-	
Lubricant amount	:	-	-	
Lubricant type	:	Mobil Polyrex EM		
Notes USABLE @208V 27.0A SF 1.00 SFA 27.0A				
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
Performed by				
Checked by			Page	Revision
Date	10/04/2020		1 / 7	

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:

Brake information

Voltage: 208-230/460//190/380 V

Brake Torque: 50.2 ft.lb

Rev.

Changes Summary

Performed

Checked

Date

Performed by

Checked by

Date

10/04/2020

Page

2 / 7

Revision

TORQUE AND CURRENT VS SPEED CURVE

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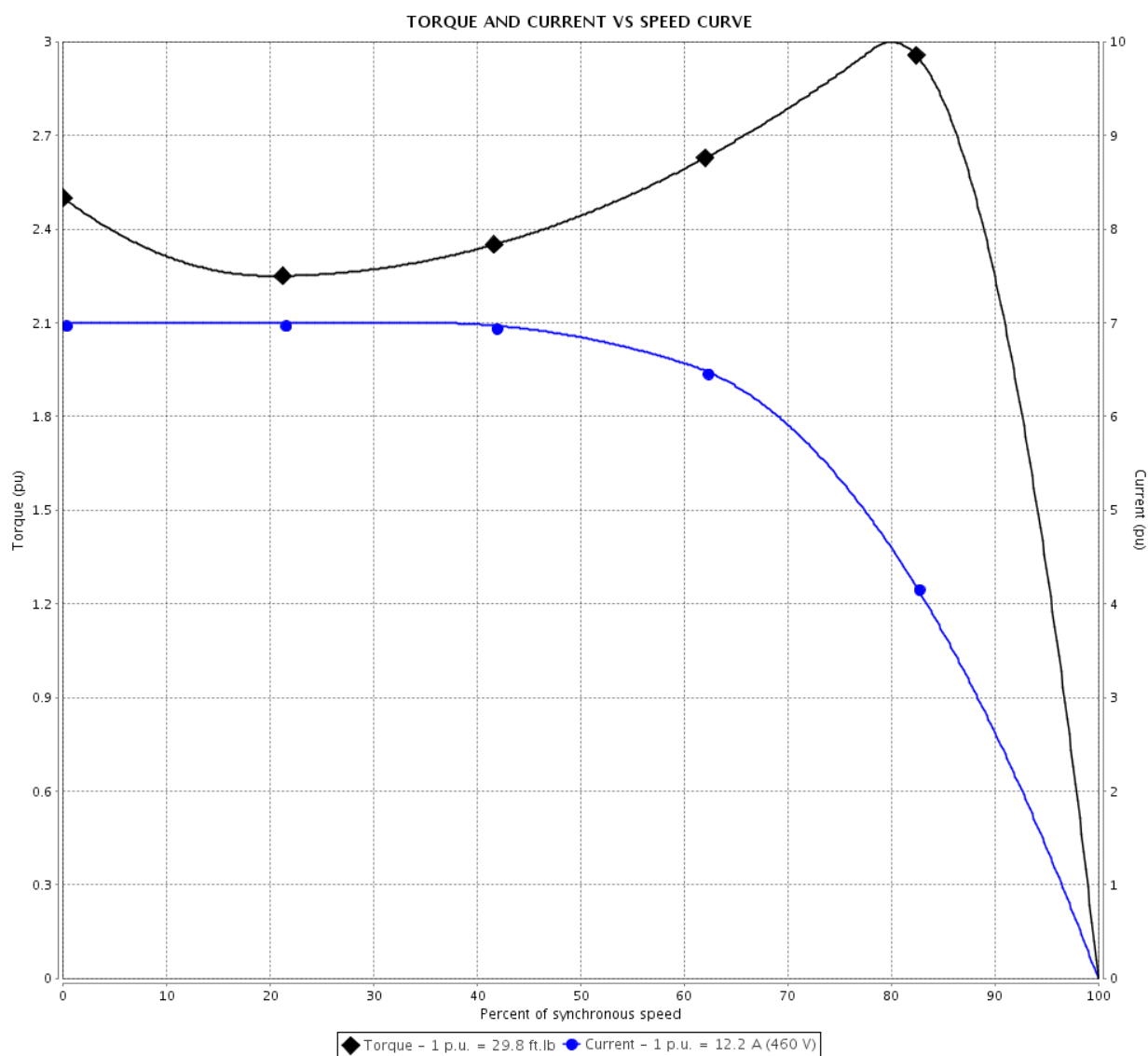


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Performance : 230/460 V 60 Hz 4P

Rated current : 24.4/12.2 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

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 7		
Checked by				
Date	10/04/2020			
		Revision		

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

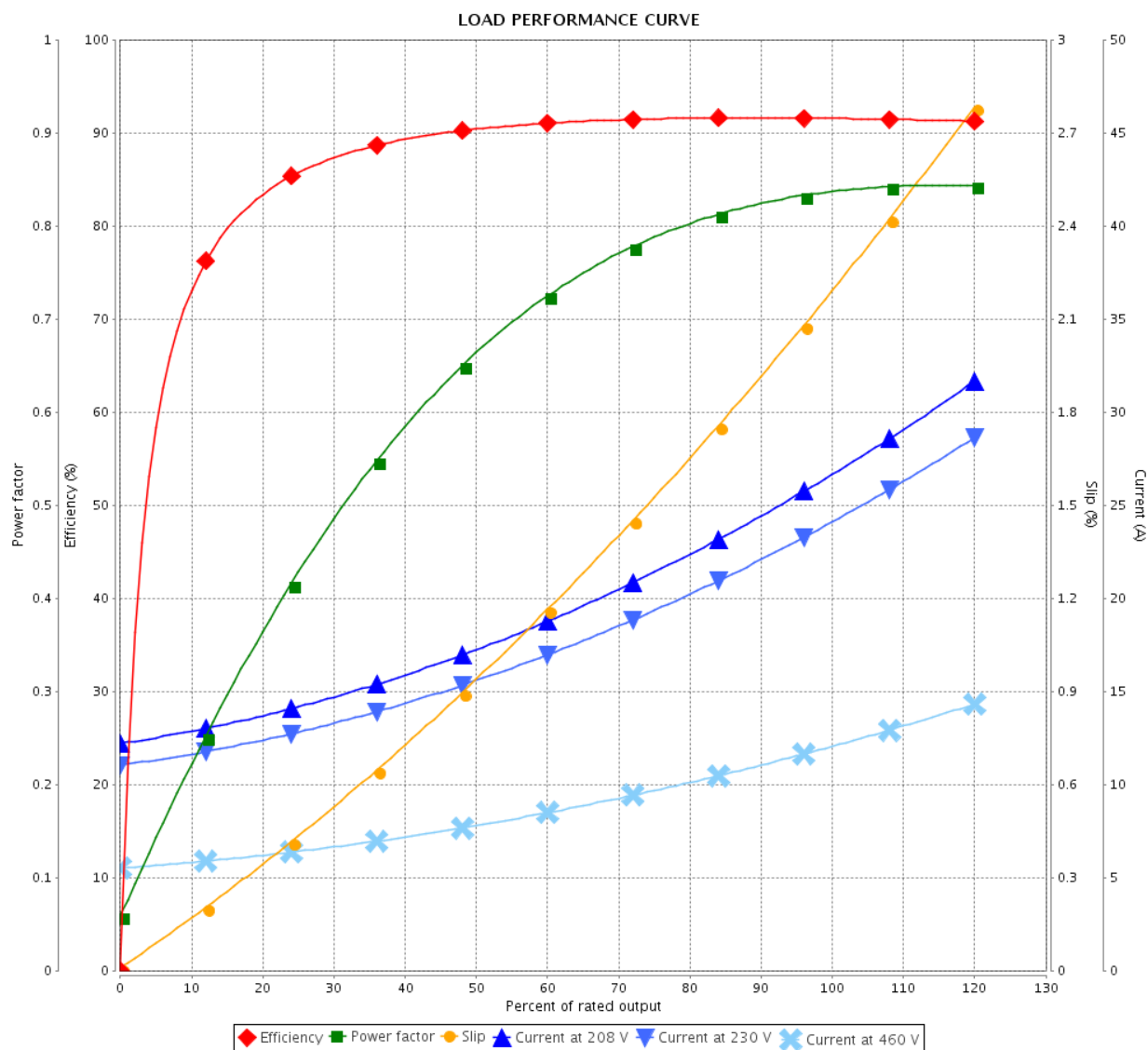


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Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by			4 / 7	
Date				

THERMAL LIMIT CURVE

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Design : B

Heating constant

Cooling constant

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 5 / 7Revision		
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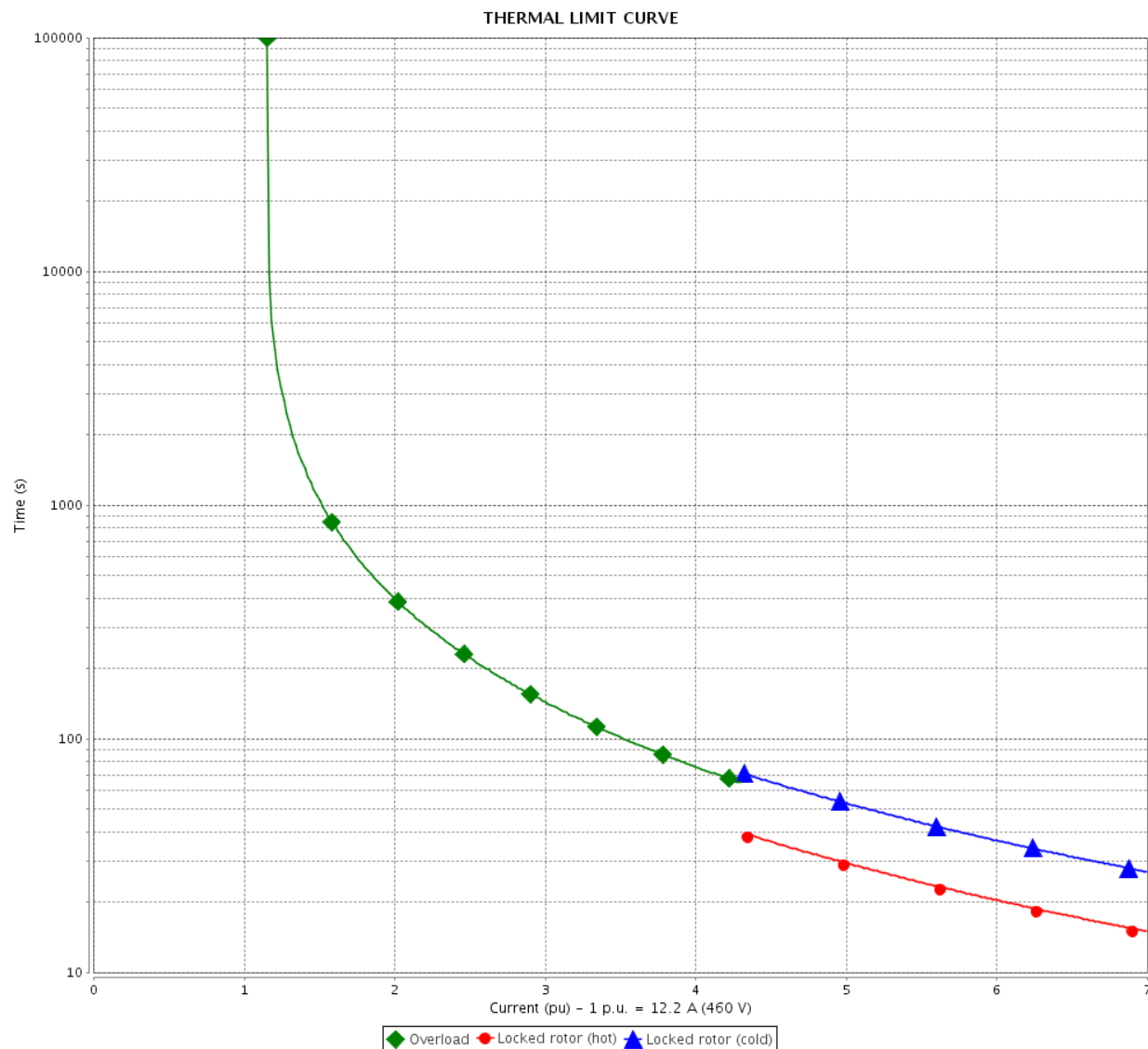
Subject to change without notice

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 6 / 7	Revision
Checked by					
Date	10/04/2020				

VFD OPERATION CURVE

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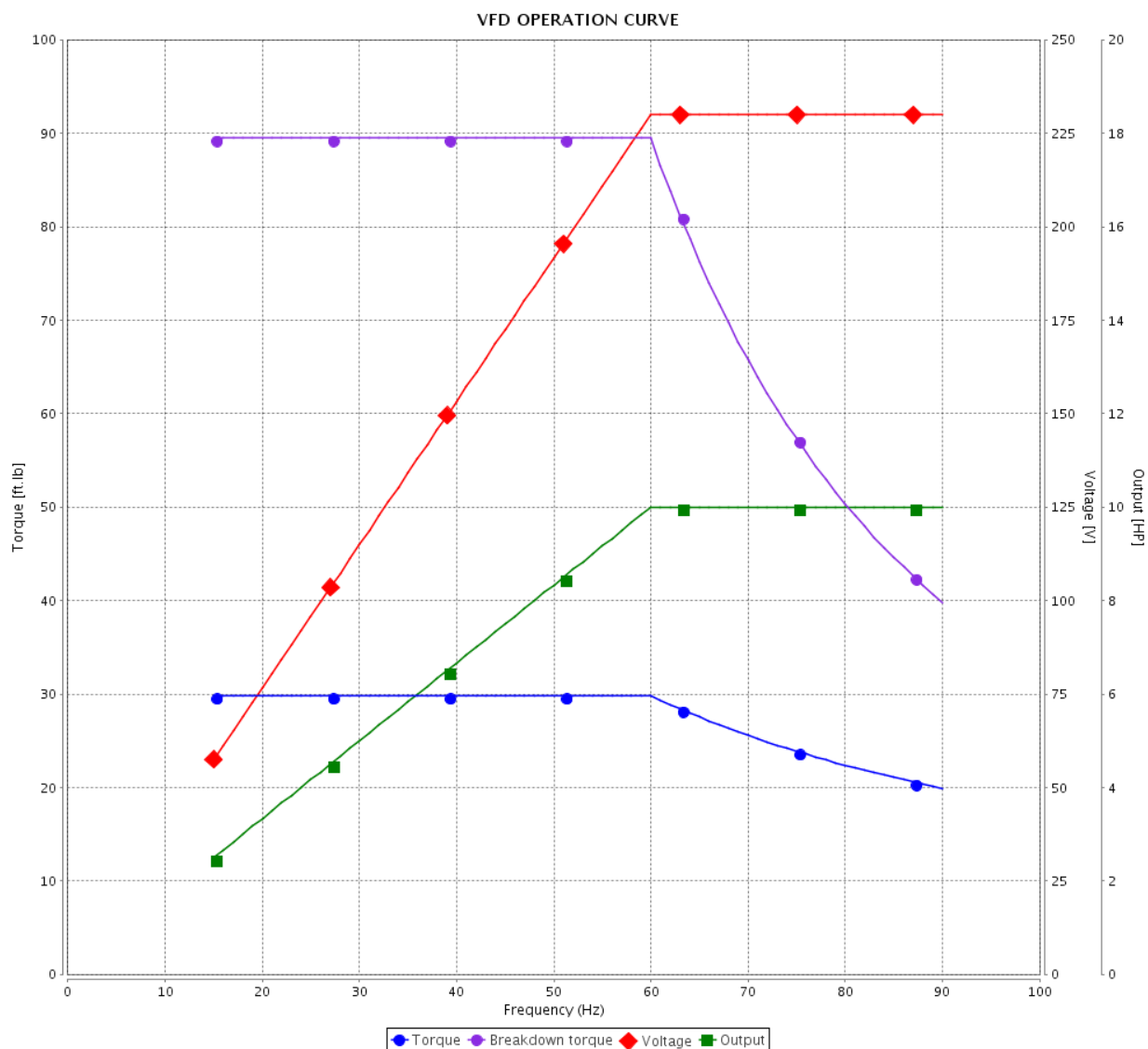


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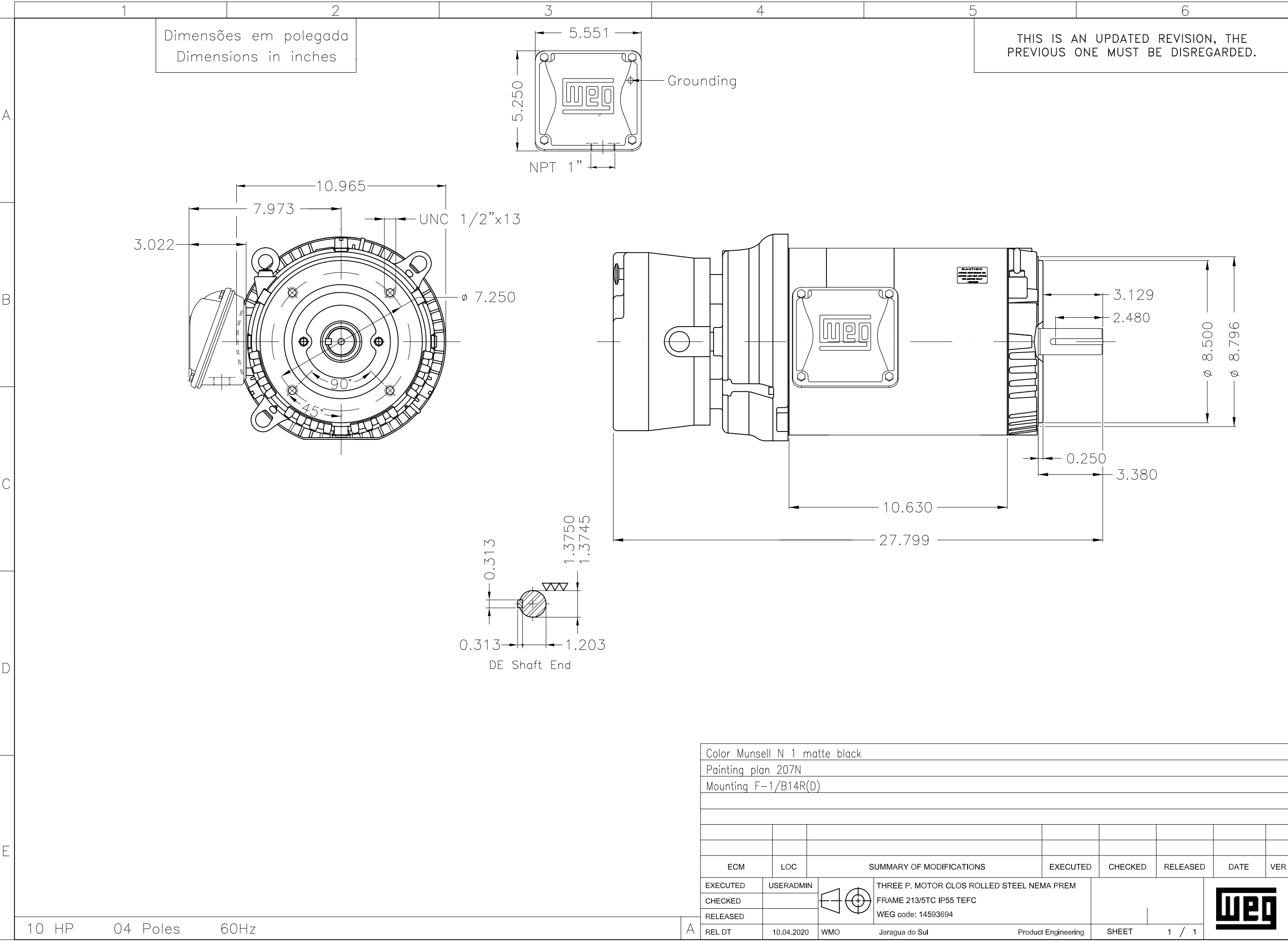


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Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 7 / 7 Revision		
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NEMA
Premium



3PT9
C US LISTED
FOR SAFE AREA



Energy Verified

MADE IN MEXICO

MAT: 14593694 CC029A

W01.TE0IC0X0N

MODEL 01018ET3EBMR215TC-S

20MAR2019 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

PH 3	FR	213/5TC	HP(KW)	10(7.5)	Hz	60
V	230/460		RPM	1760		
A	24.4/12.2		DUTY CONT.			
SFA 28.1/14.0			CODE	H	DES	B IP55
SF 1.15	INS	CL F AT	80K	AMB	40°C	ENCL TEFC
PF 0.84			NEMA NOM.EFF. 91.7%			
ALT 1000	m.a.s.l.	USABLE @ 208V	27.0A	SF1.00		
ALTERNATE RATING: 7.5HP 50Hz 190-220/380-415V SF1.15						
22.4-20.6/11.2-10.9A 1465RPM EFF 90.1% (IE3) IEC 60034-1						



INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

For safe area-Inverter duty For 60Hz use on VPWM 1000:1 VT, 4:1 CT

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

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.

