

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

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

Product line : NEMA Premium Efficiency Three-Phase  
 Product code : 12675417  
 Catalog # : 00512ET3H215T-S

Frame	: 213/5T	Locked rotor time	: 54s (cold) 30s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 5.39 A	Protection degree	: IP55
L. R. Amperes	: 32.4 A	Cooling method	: IC411 - TEFC
LRC	: 6.0x(Code H)	Mounting	: F-1
No load current	: 2.73 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1175 rpm	Noise level <sup>2</sup>	: 55.0 dB(A)
Slip	: 2.08 %	Starting method	: Direct On Line
Rated torque	: 22.3 ft.lb	Approx. weight <sup>3</sup>	: 144 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.26 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	86.4	87.5	88.5	89.5	Max. traction	: 243 lb
Power Factor	0.35	0.59	0.71	0.77	Max. compression	: 387 lb

	Drive end	Non drive end
Bearing type	: 6208 ZZ	: 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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Performed by		Page		Revision
Checked by		1 / 6		
Date	12/04/2022			

# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



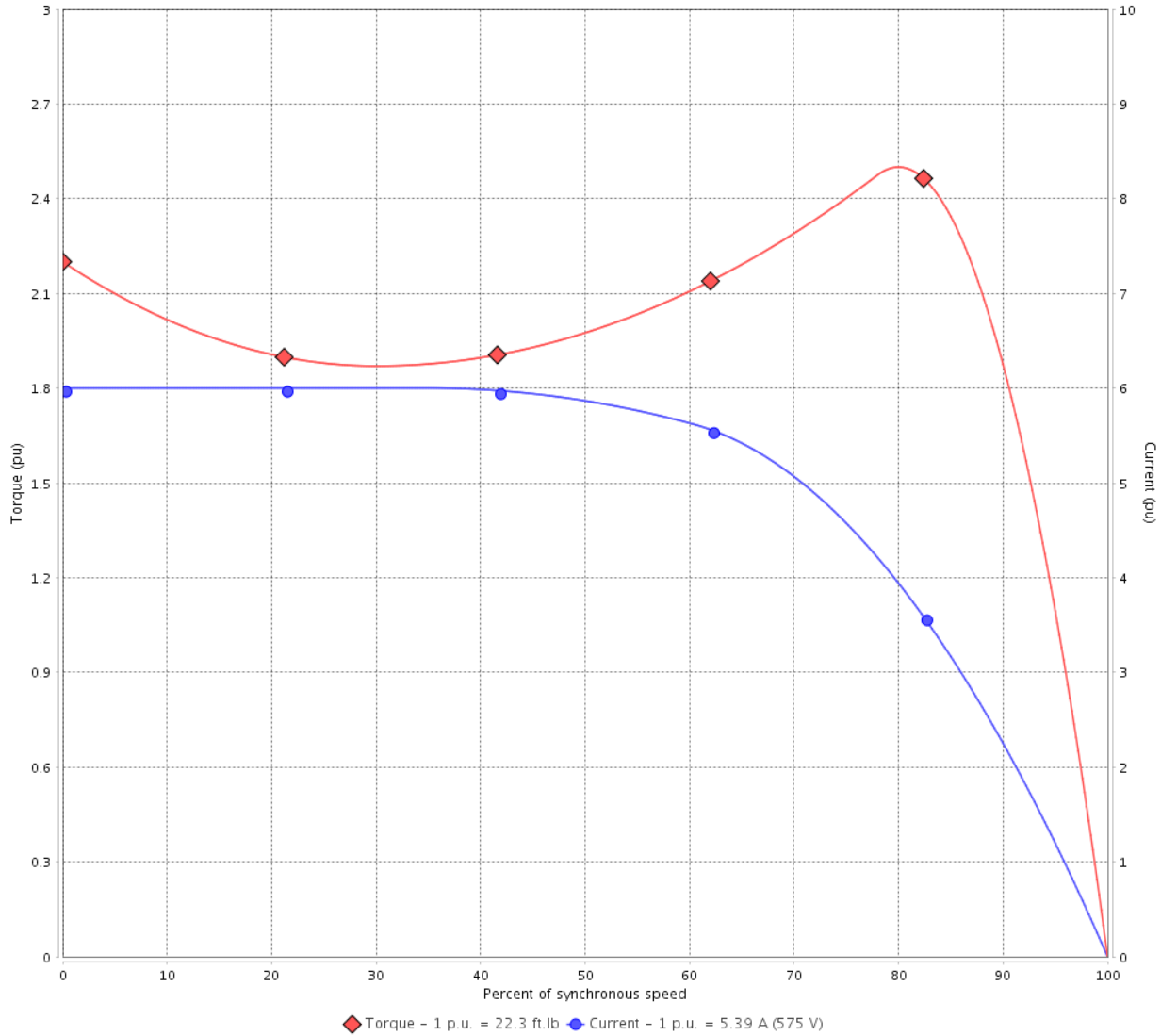
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12675417

Catalog # : 00512ET3H215T-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 6P

Rated current	: 5.39 A	Moment of inertia (J)	: 1.26 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 22.3 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1175 rpm	Design	: B

Locked rotor time : 54s (cold) 30s (hot)

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Performed by			Page 2 / 6	Revision
Checked by				
Date	12/04/2022			

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

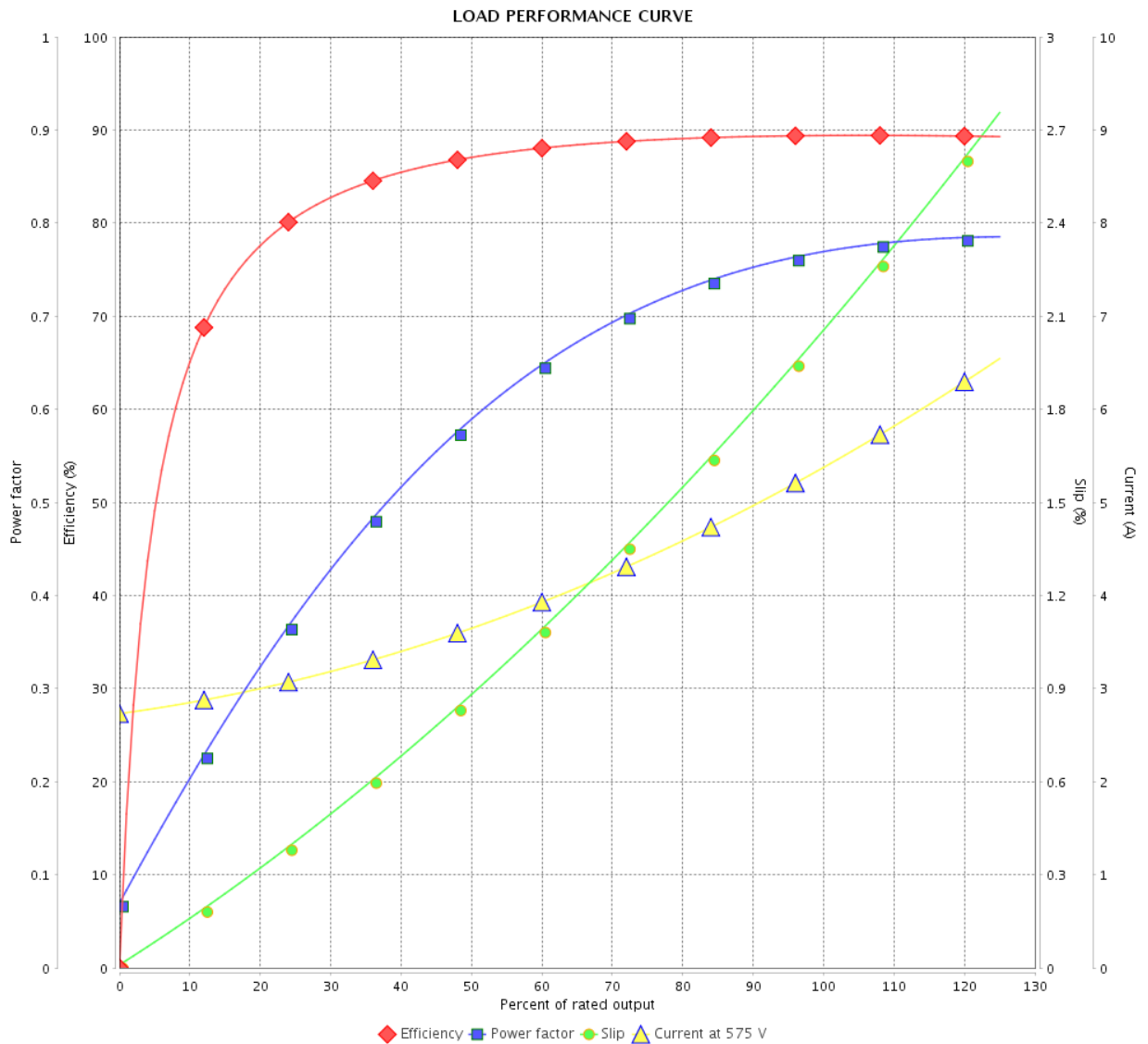


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12675417

Catalog # : 00512ET3H215T-S



Performance : 575 V 60 Hz 6P

Rated current : 5.39 A  
 LRC : 6.0  
 Rated torque : 22.3 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 250 %  
 Rated speed : 1175 rpm

Moment of inertia (J) : 1.26 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 : 12675417  
 Catalog # : 00512ET3H215T-S

Performance : 575 V 60 Hz 6P

Rated current : 5.39 A	Moment of inertia (J) : 1.26 sq.ft.lb
LRC : 6.0	Duty cycle : Cont.(S1)
Rated torque : 22.3 ft.lb	Insulation class : F
Locked rotor torque : 220 %	Service factor : 1.15
Breakdown torque : 250 %	Temperature rise : 80 K
Rated speed : 1175 rpm	Design : B

Heating constant

Cooling constant

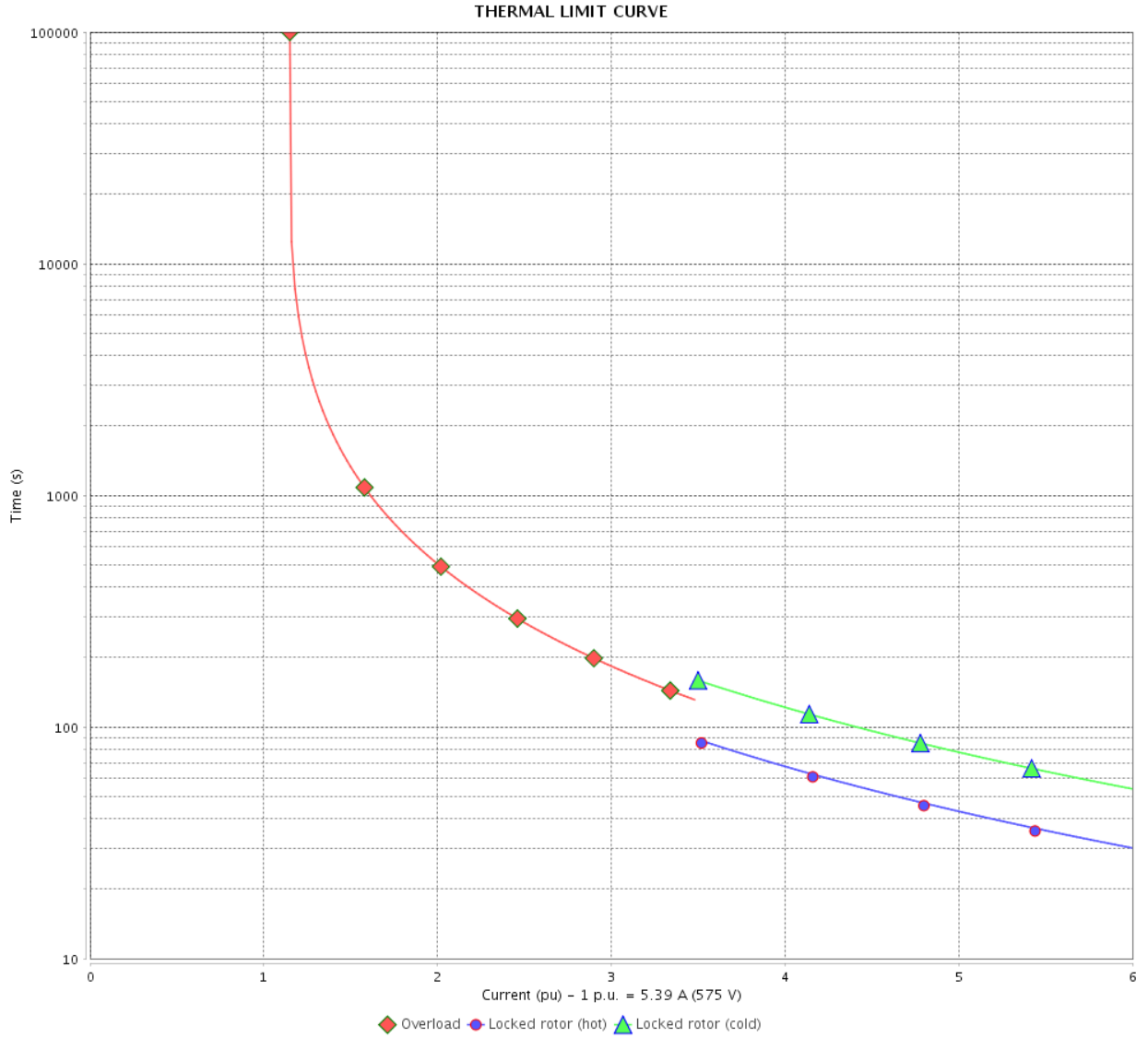
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date	12/04/2022			

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by				
Date				

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



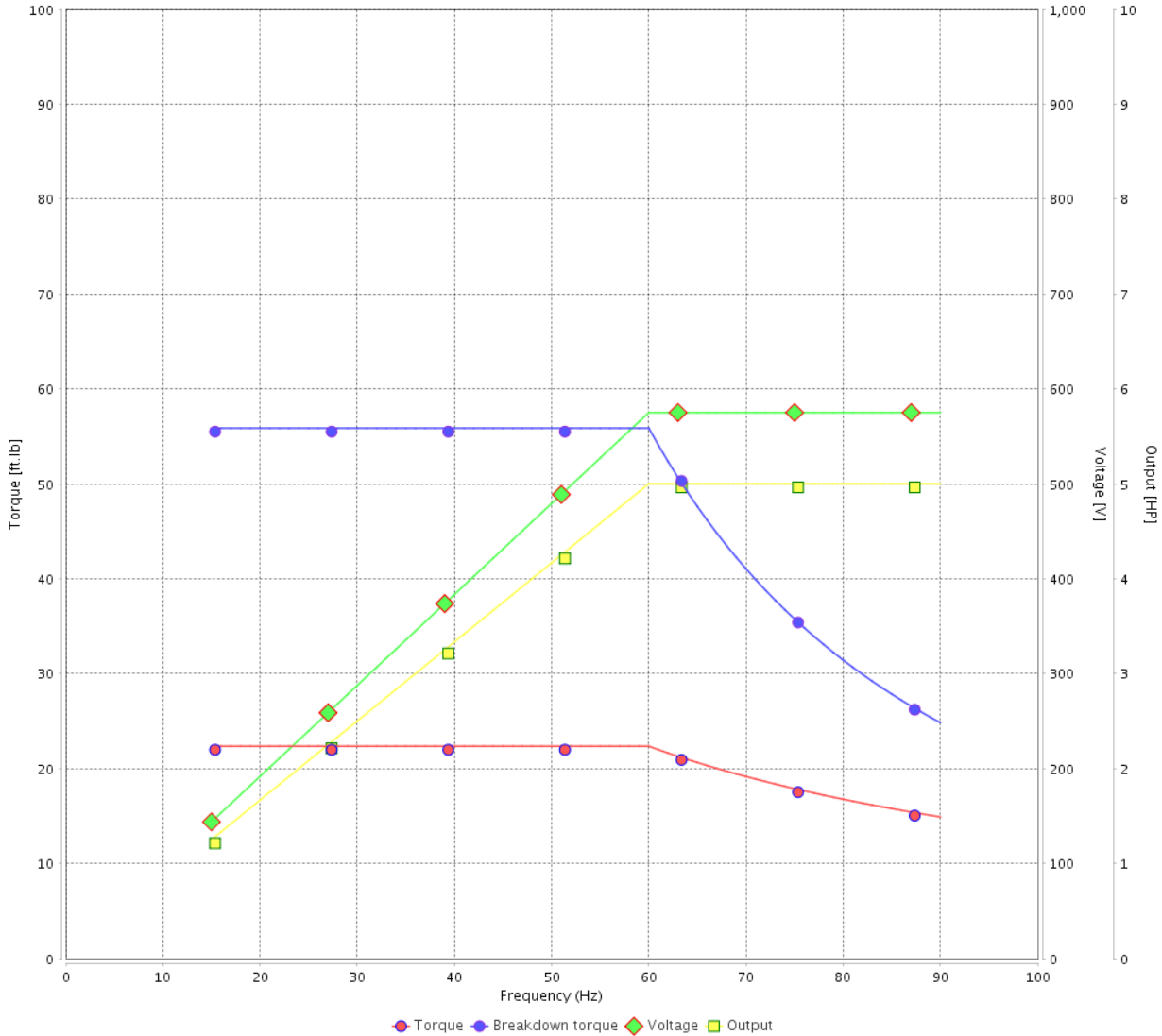
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12675417

Catalog # : 00512ET3H215T-S

VFD OPERATION CURVE



Performance : 575 V 60 Hz 6P

Rated current : 5.39 A  
 LRC : 6.0  
 Rated torque : 22.3 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 250 %  
 Rated speed : 1175 rpm

Moment of inertia (J) : 1.26 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 6 / 6	Revision
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Date	12/04/2022			

1 2 3 4 5 6

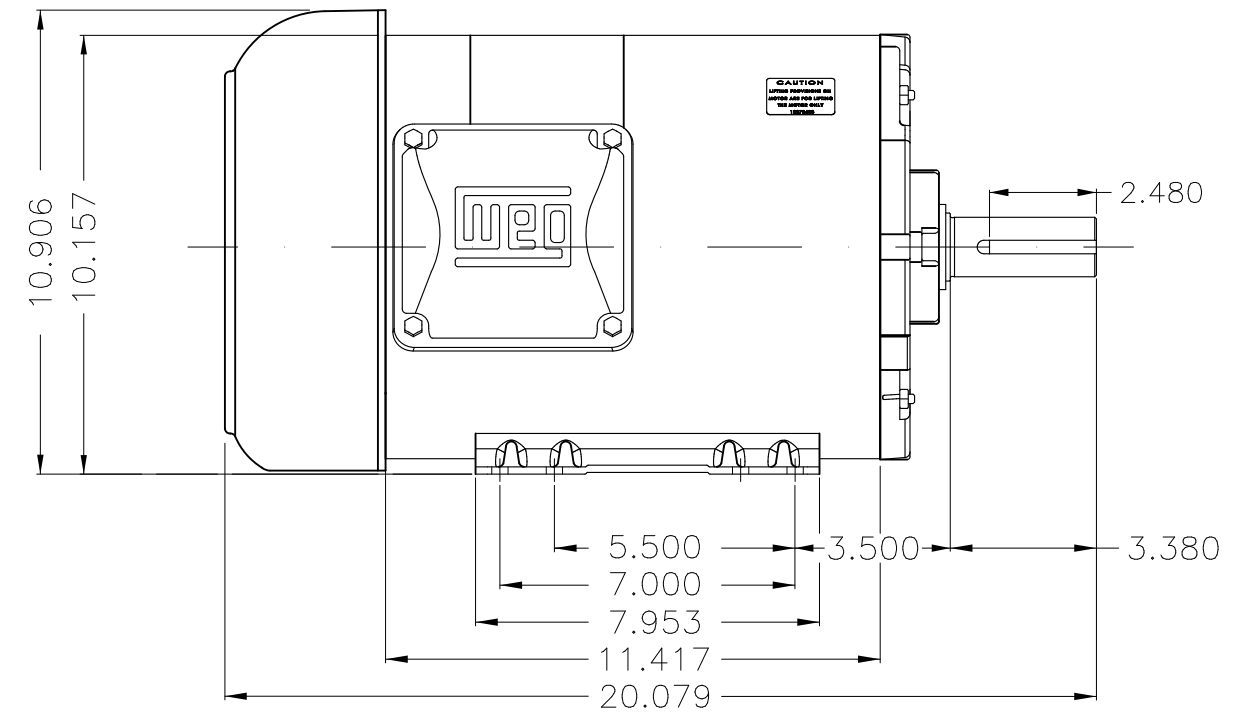
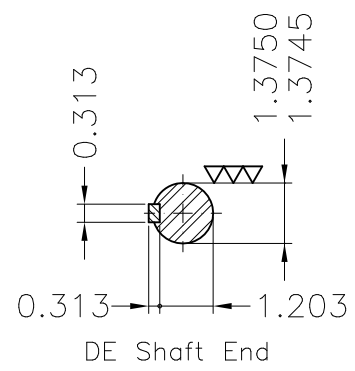
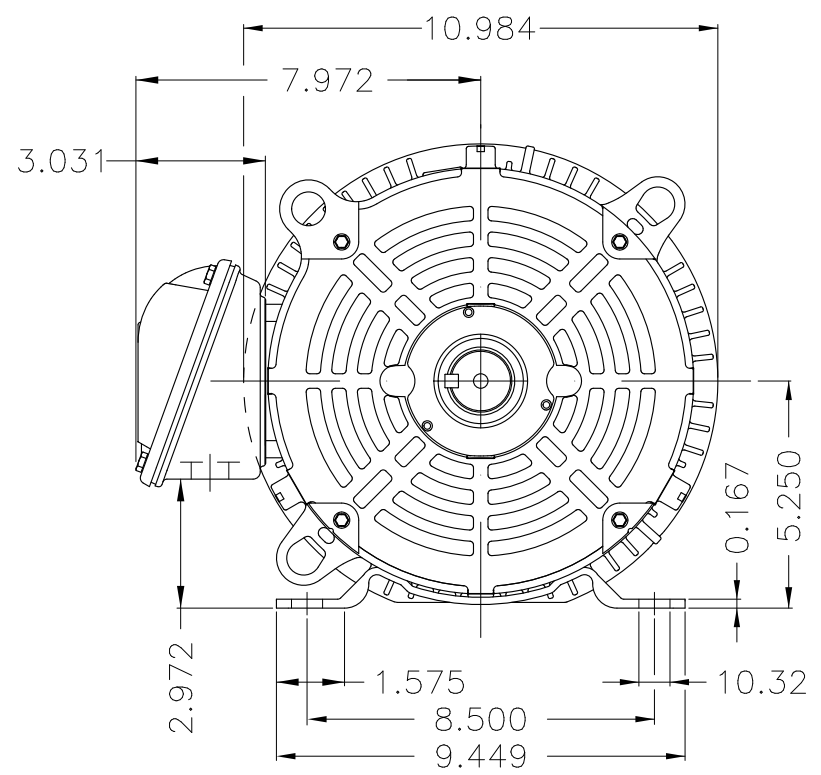
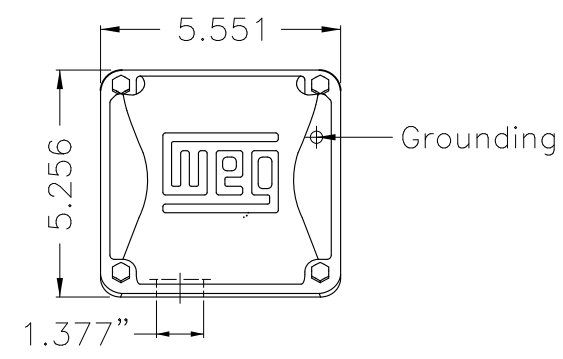
A

B

C

D

E



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	PIRWUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF. FRAME 213/5T IP55 TEFC					
CHECKED							
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1		

5 HP 06 Poles 60 Hz

A

PREVIEW  
WDD





**NEMA**  
**Premium**



MADE IN MEXICO

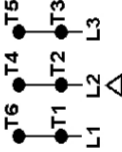
**MAT: 12675417 CC029A**  
**W01.TE0IC0X0N**  
**HT005506NPW01**  
**19APR2022 S/N:**

**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	Hz 60	HP 5.0
FR 213/5T		KW 3.7
DUTY CONT.		V 575
ALT 1000 m.a.s.l.		A 5.39
INS CL F AT 80K	IP55	SFA 6.20
AMB 40°C	DES B	SF 1.15
ENCL TEFC	CODE H	PF 0.77
		RPM 1175
		NEMA NOM. EFF 89.5%

**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.

