



# TORQUE AND CURRENT VS SPEED CURVE

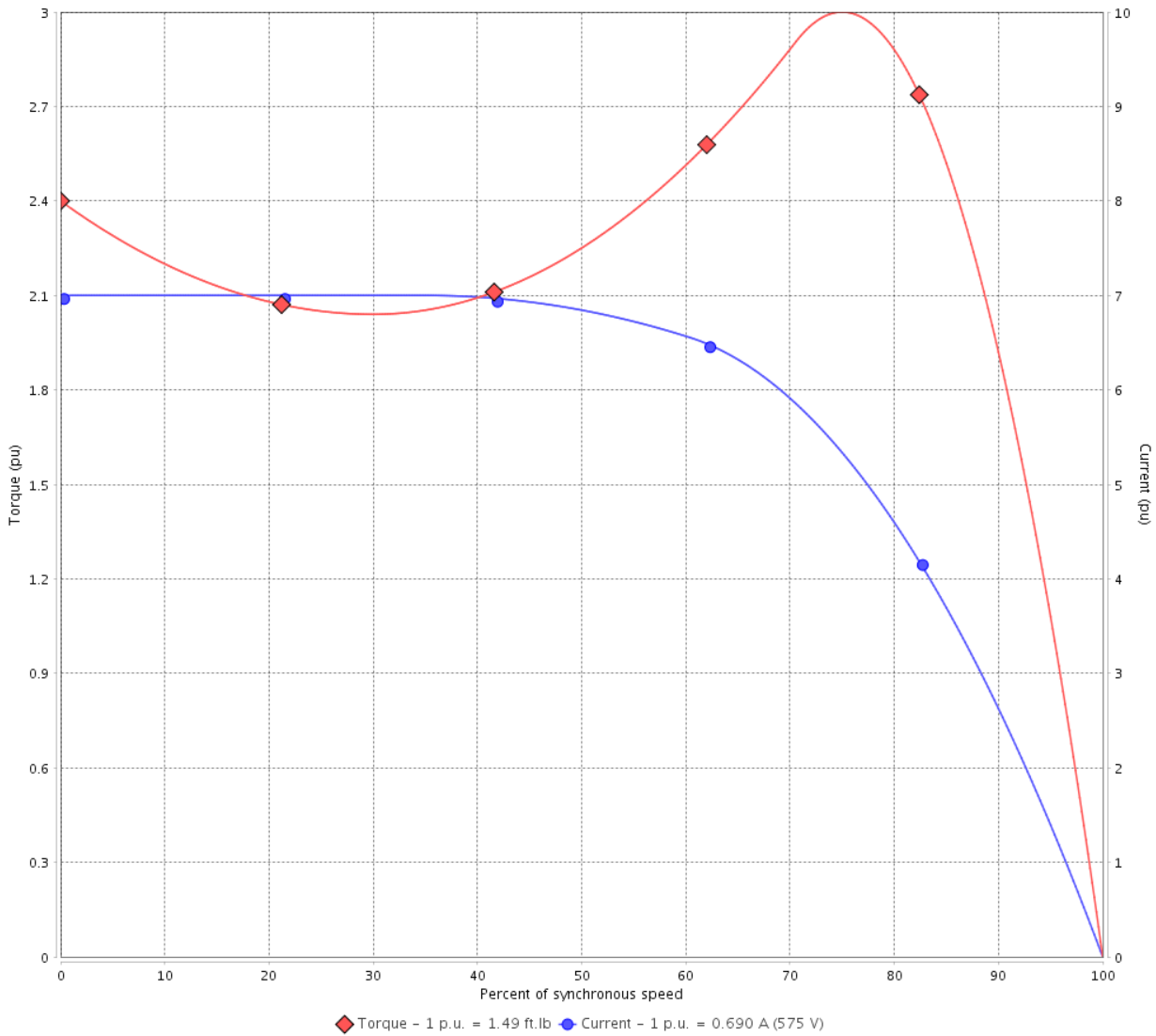
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase      Product code : 14786365  
 Catalog # : .5018ES3H56CFL-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 4P

Rated current	: 0.690 A	Moment of inertia (J)	: 0.0584 sq.ft.lb
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 1.49 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm		

Locked rotor time : 36s (cold) 20s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 5	Revision
Checked by				
Date	11/04/2022			

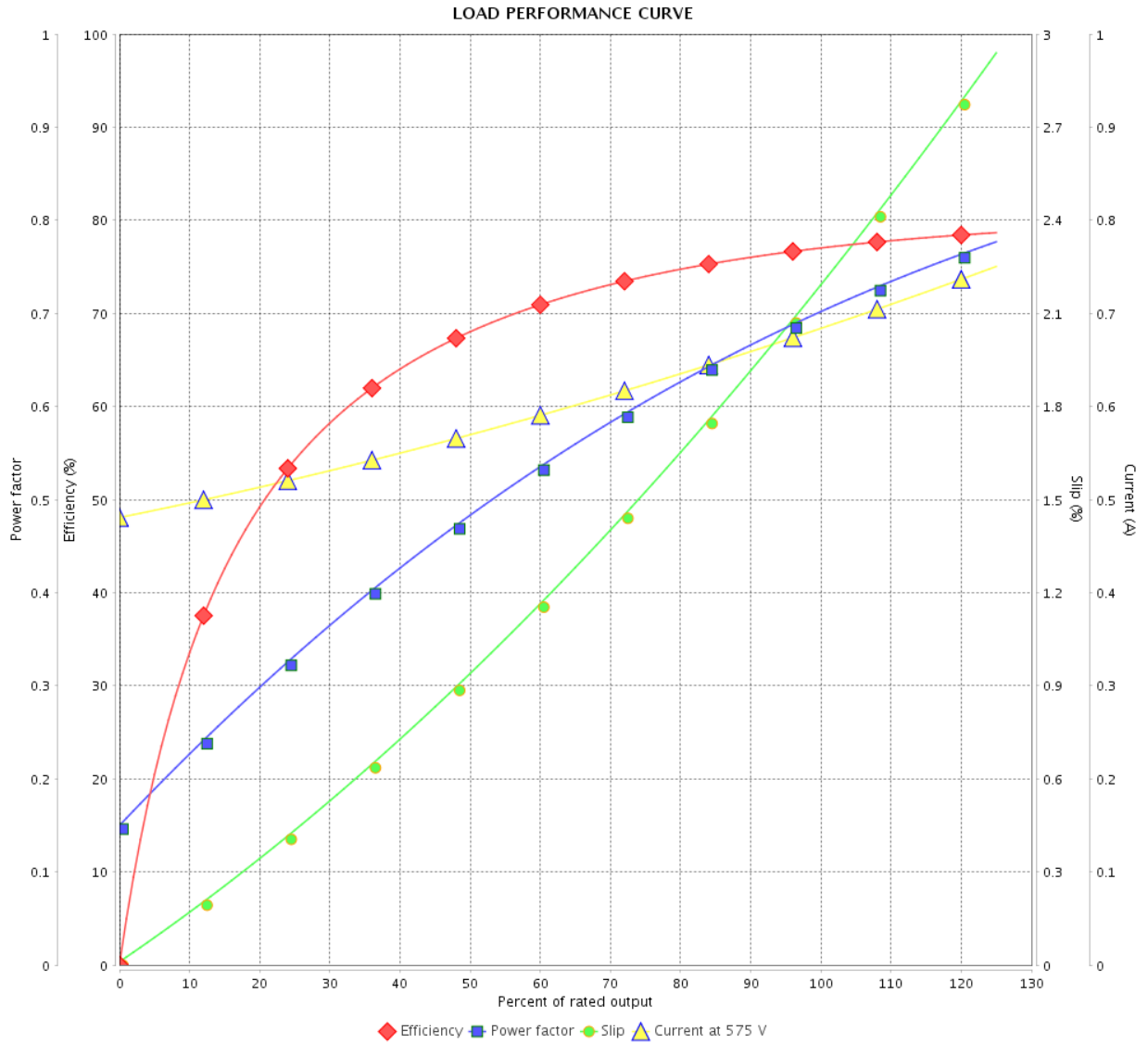
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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 LRC : 7.0  
 Rated torque : 1.49 ft.lb  
 Locked rotor torque : 240 %  
 Breakdown torque : 300 %  
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0584 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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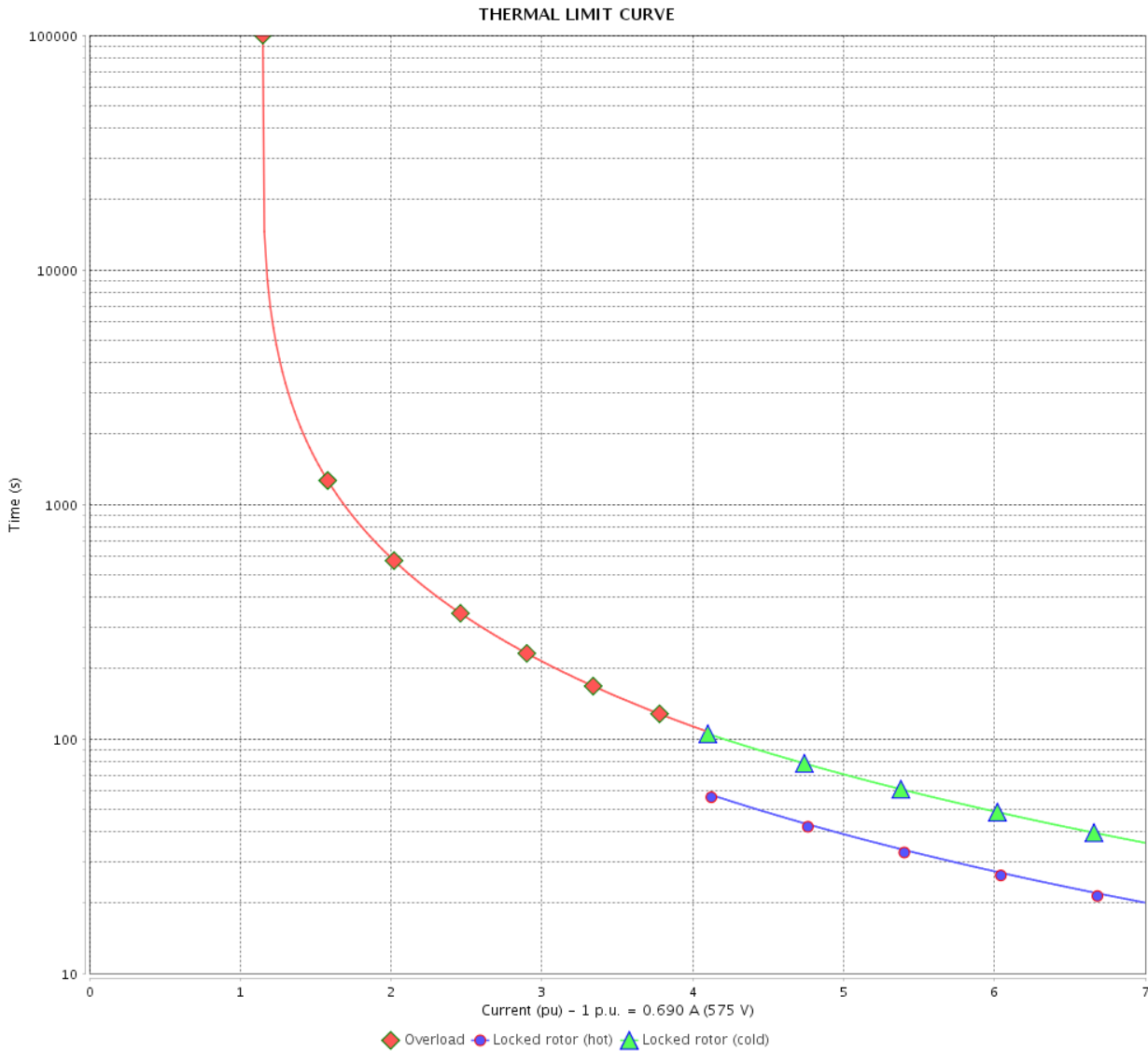
# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



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 Catalog # : .5018ES3H56CFL-S



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LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 1.49 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm		

Heating constant

Cooling constant

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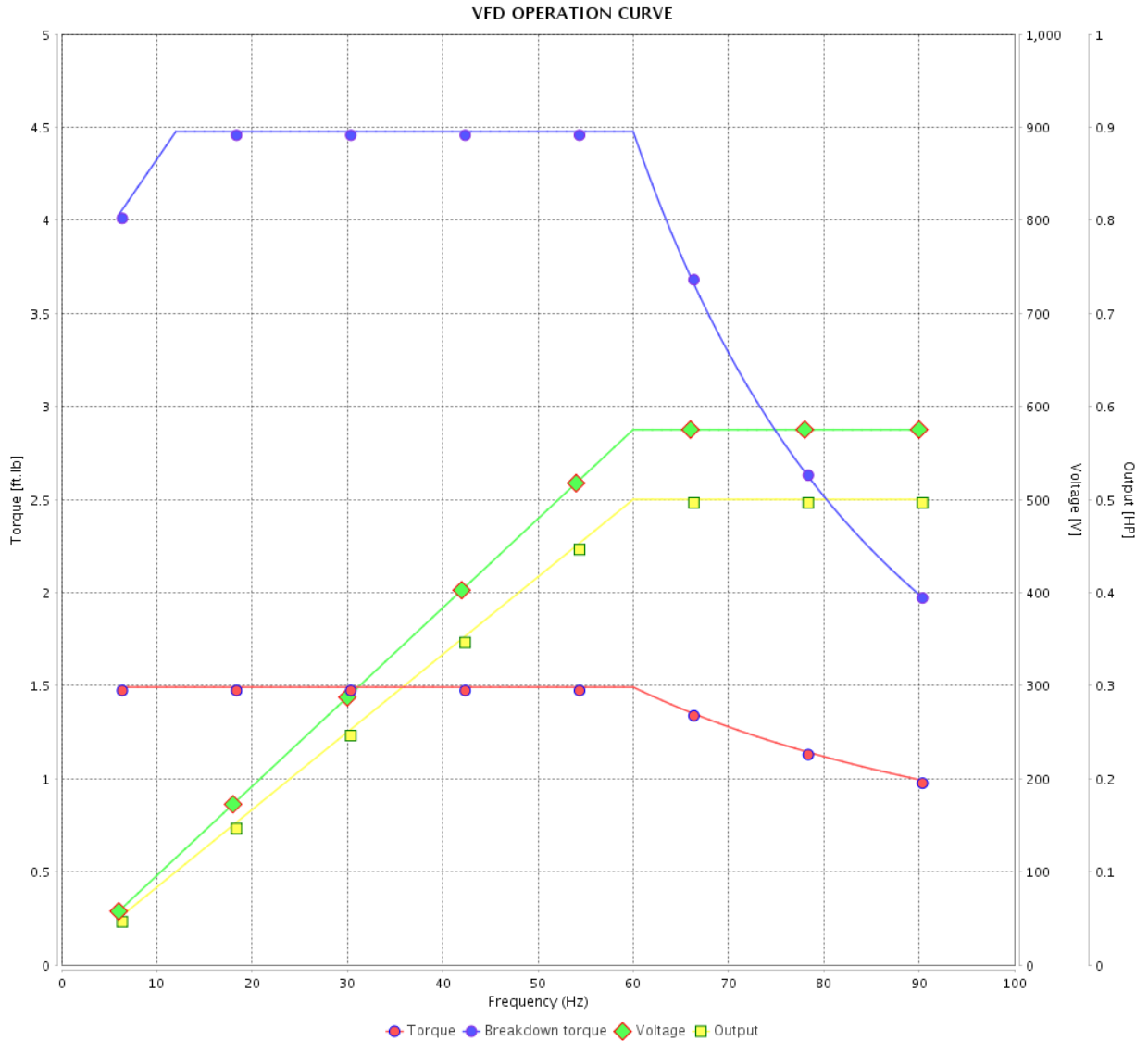
# VFD OPERATION CURVE

## Three Phase Induction Motor - Squirrel Cage



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 Catalog # : .5018ES3H56CFL-S



Performance : 575 V 60 Hz 4P

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 LRC : 7.0  
 Rated torque : 1.49 ft.lb  
 Locked rotor torque : 240 %  
 Breakdown torque : 300 %  
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0584 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
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Date	11/04/2022			

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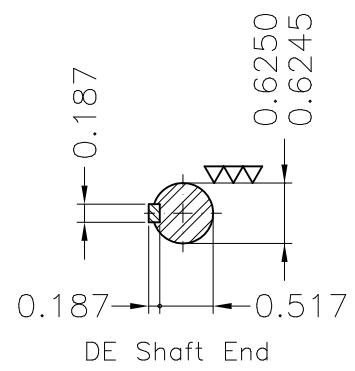
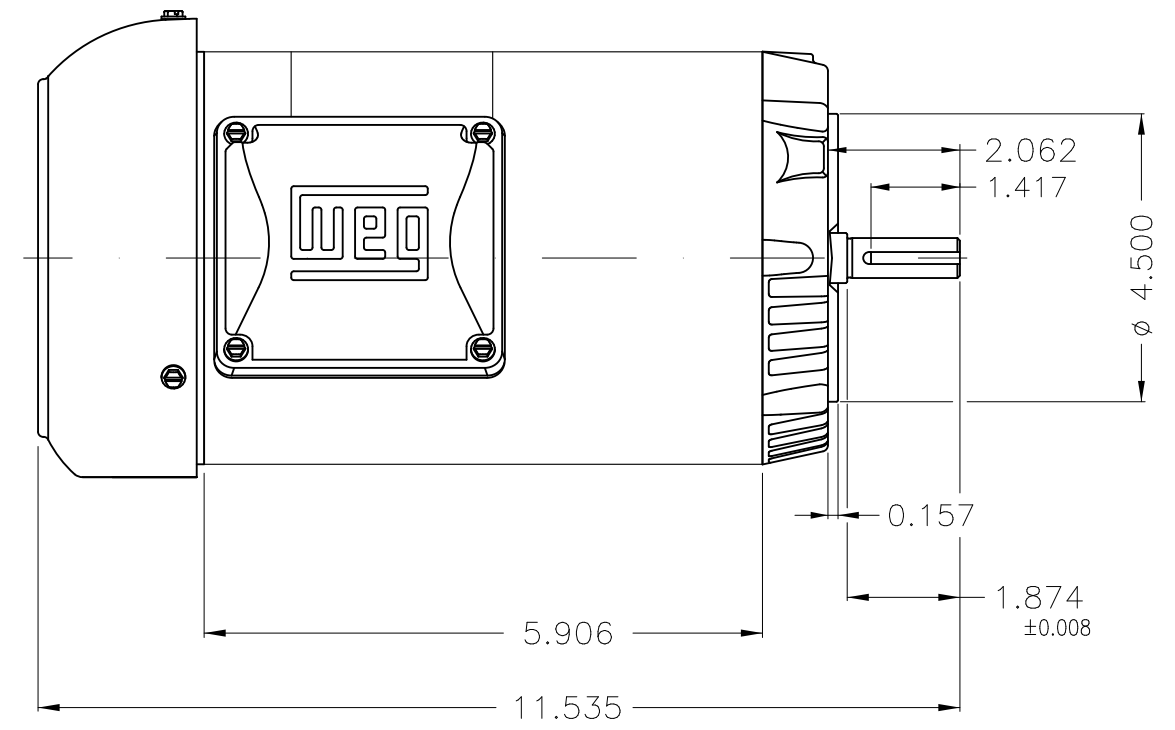
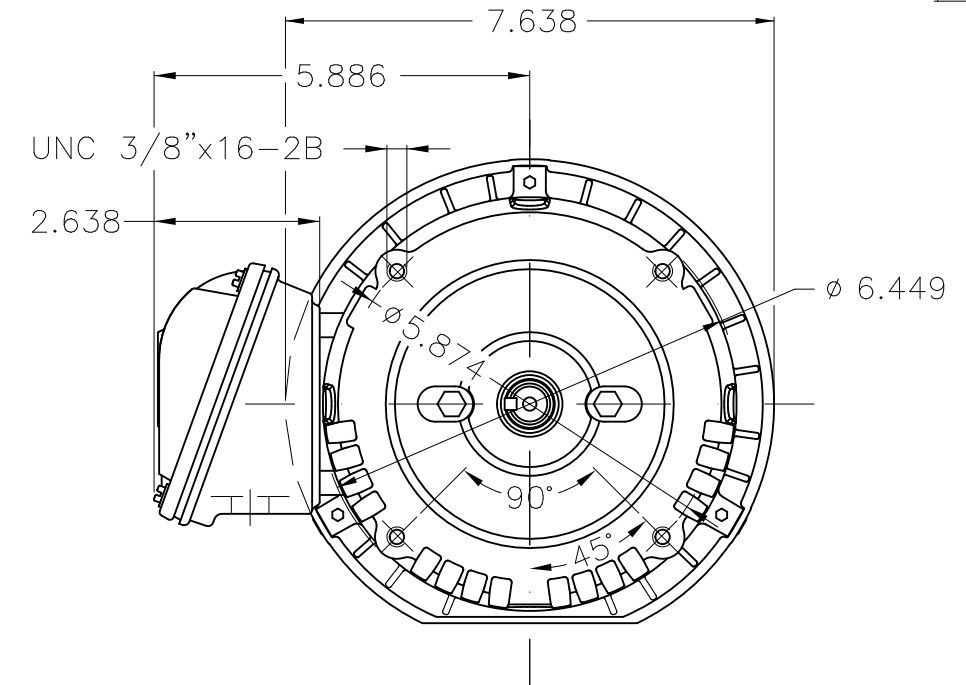
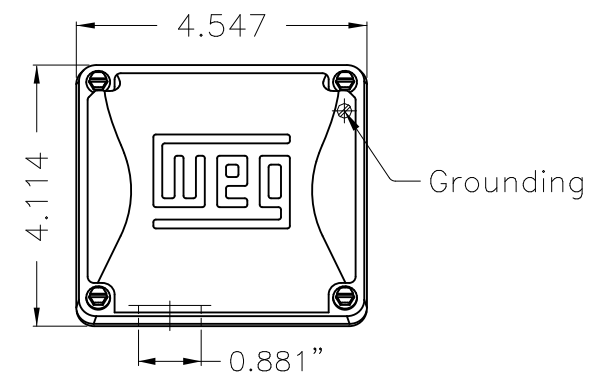
A

B

C

D

E



Dimensions in inches

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

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR ROLLED STEEL					
CHECKED		FRAME 56C IP55 TEFC					
RELEASED							

**PREVIEW**

WDD



0.5 HP 04 Poles 60 Hz

A REL DT. WMO Jaragua do Sul Product Engineering SHEET 1 / 1

XME A3



MADE IN MEXICO

**MAT: 14786365**

**W01.TE0IC0X0X**

**MODEL .5018ES3H56CFL-S**

**15DEC2021 B/N:**

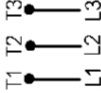


**For 60Hz: Class I, Zone 2, IIC  
Class I, Div.2, Gr. A,B,C,D - T3  
DIV 2 Inverter Duty (SF1.00)  
CT 2:1/VT 1000:1**

PH 3	Hz 60	HP 0.50
FR 56C		KW 0.37
DUTY CONT.		V 575
ALT 1000 m.a.s.l		A 0.690
INS CL F AT 80K	IP55	SFA 0.793
AMB 40°C	DES -	SF 1.15
ENCL TEFC	CODE L	PF 0.70
		RPM 1760
		NEMA NOM. EFF 77.0%

**For safe area-inverter duty motor For use on VPWM 1000:1 VT, 10:1 CT**

**DE 6203-ZZ ODE 6202-ZZ MOBIL POLYREX EM**



T1-BLU

T2-WHT

T3-ORG



**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.

