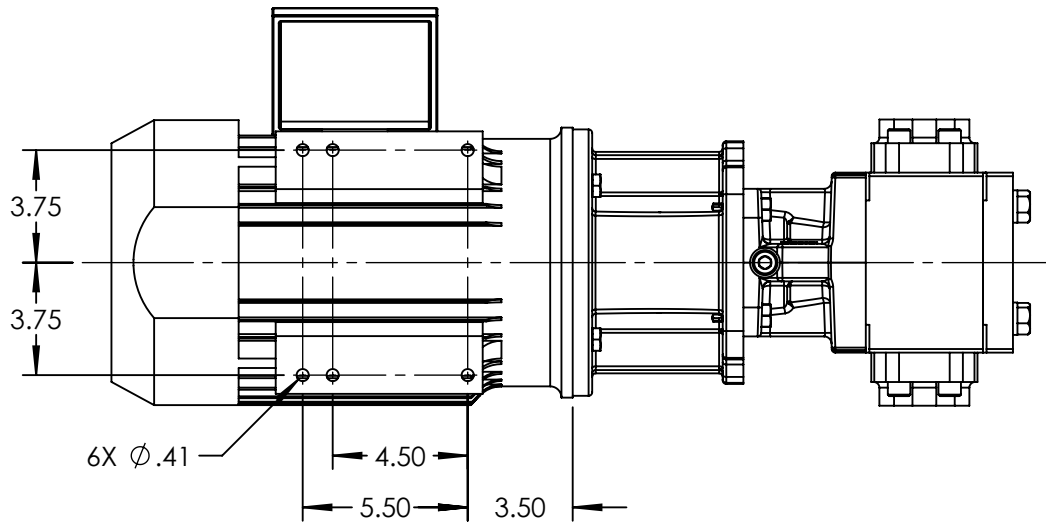
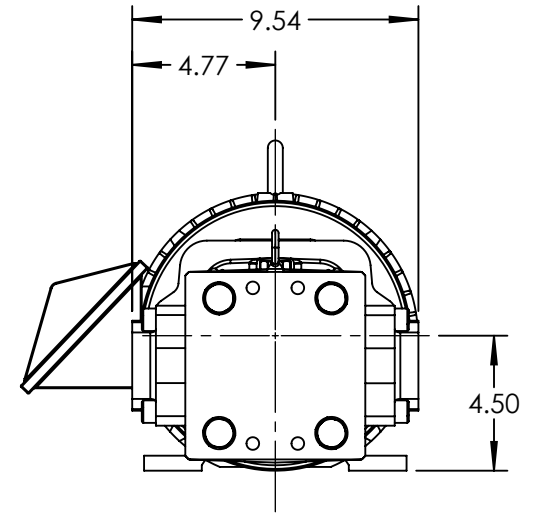
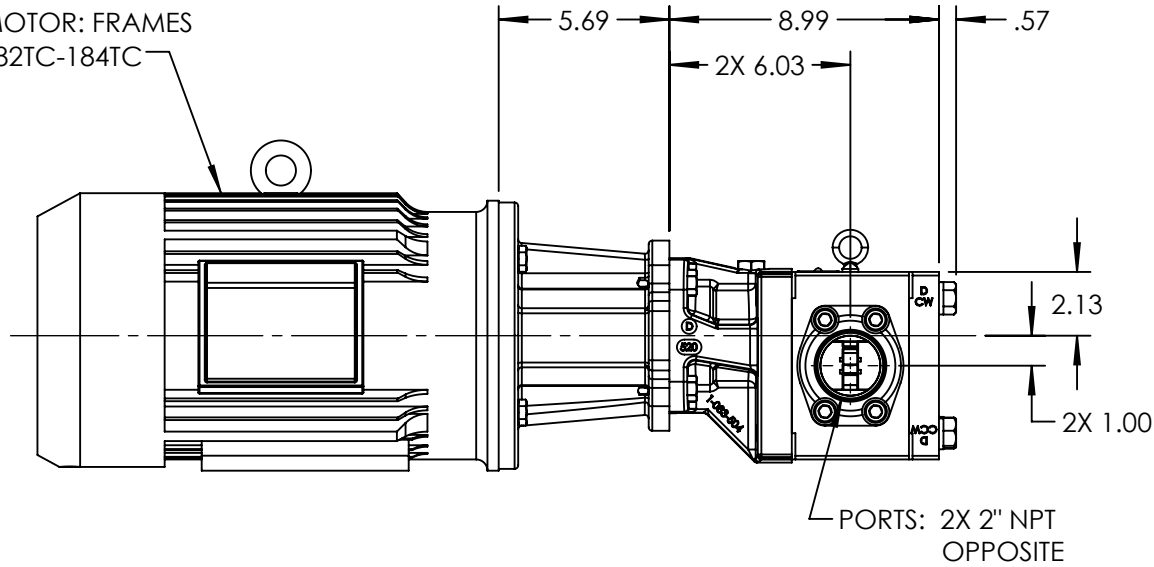


MOTOR: FRAMES  
182TC-184TC



STANDARD MODELS: GB-41005-G00-M, GB-41005-G10-M

NOTES:

1. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

STATE	Released	07/16/2021
DRAWN	bmanernach	6/21/2021
CHECKED	JAG	07/16/2021

DIMENSIONS ARE IN INCHES
PROJECT: E331
WAS:



VIKING PUMP, INC.  
A Unit of IDEX Corporation  
Cedar Falls, IA 50613  
U.S.A.

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3D

DWG. NO.	SHEET 1 OF 1
GPV-1005-002-U	

REV. A.0
07/16/2021



# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage



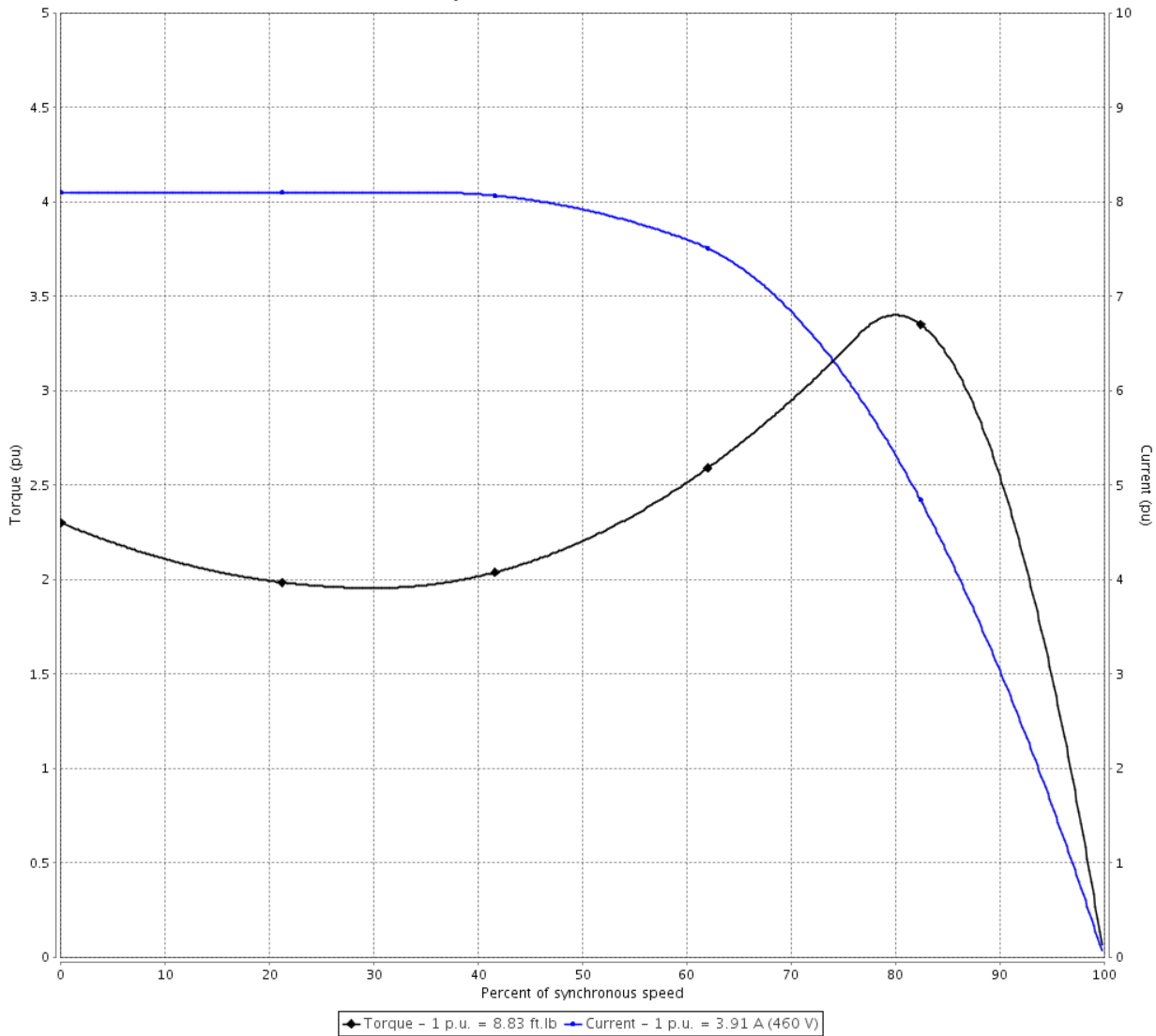
Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 12445724

Catalog # : 00318ET3E182TC-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 208-230/460 V 60 Hz 4P

Rated current	: 8.65-7.82/3.91 A	Moment of inertia (J)	: 0.3401 sq.ft.lb
LRC	: 8.1	Duty cycle	: Cont.(S1)
Rated torque	: 8.83 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm	Design	: B

Locked rotor time : 41s (cold) 23s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 6	Revision
Checked by				
Date	15/01/2019			

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

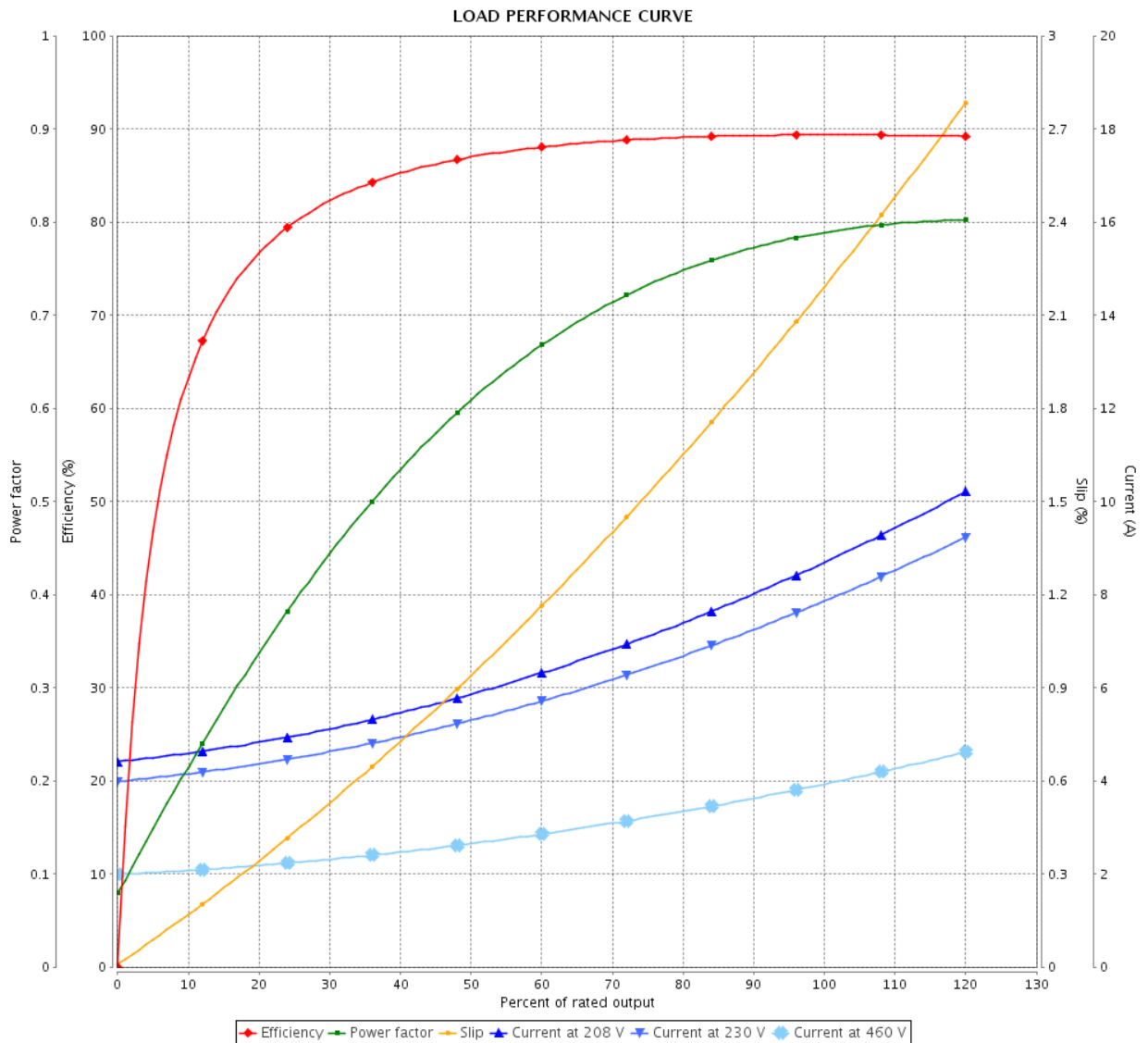


Customer : \_\_\_\_\_

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 12445724

Catalog # : 00318ET3E182TC-W22



Performance : 208-230/460 V 60 Hz 4P

Rated current : 8.65-7.82/3.91 A  
 LRC : 8.1  
 Rated torque : 8.83 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 340 %  
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.3401 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		3 / 6		
Date		15/01/2019		

# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 12445724

Catalog # : 00318ET3E182TC-W22

Performance : 208-230/460 V 60 Hz 4P

Rated current : 8.65-7.82/3.91 A  
LRC : 8.1  
Rated torque : 8.83 ft.lb  
Locked rotor torque : 229 %  
Breakdown torque : 340 %  
Rated speed : 1760 rpm

Moment of inertia (J) : 0.3401 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

Heating constant

Cooling constant

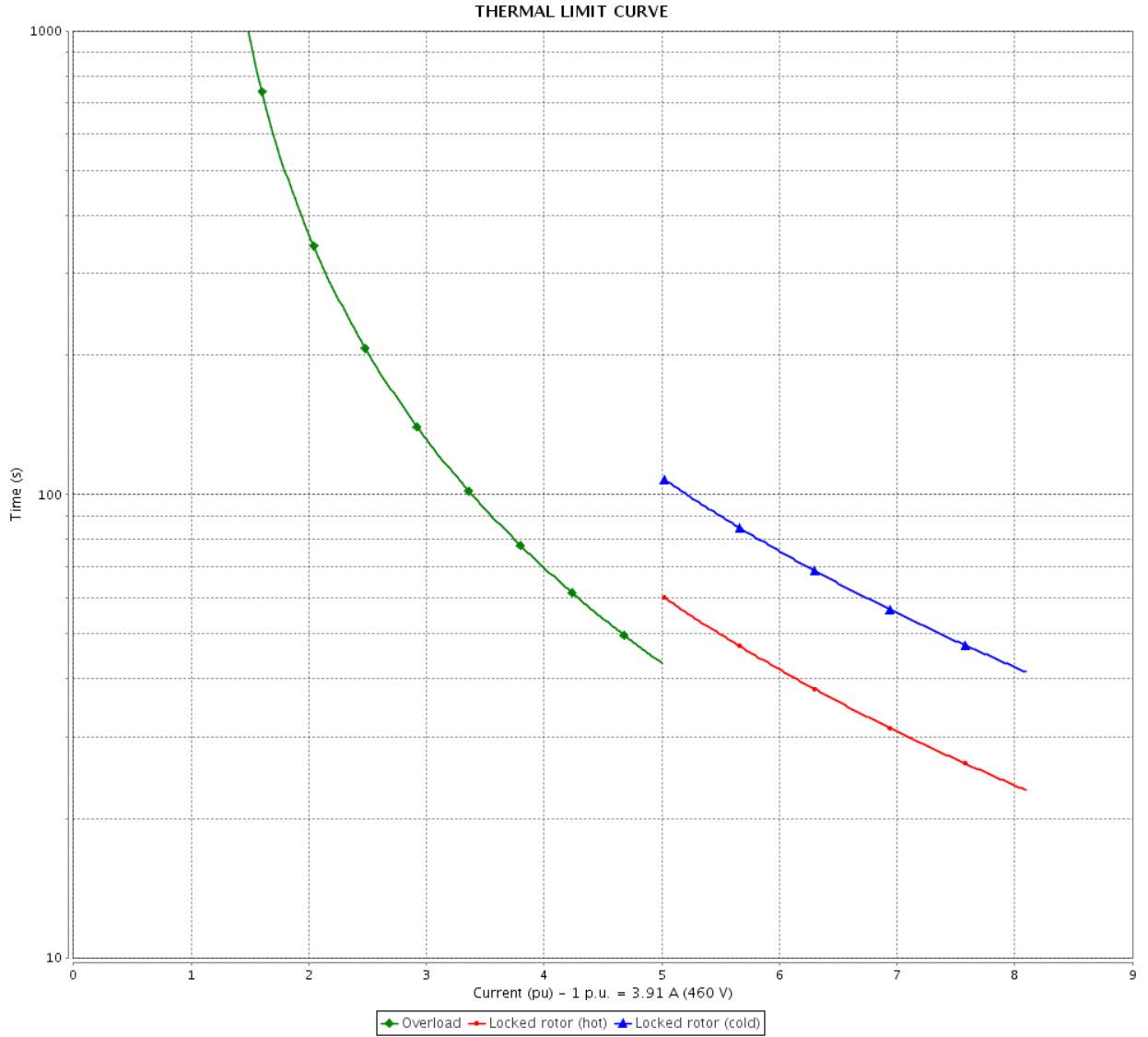
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 6	Revision
Checked by				
Date	15/01/2019			

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date				
			Page	Revision
			5 / 6	

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

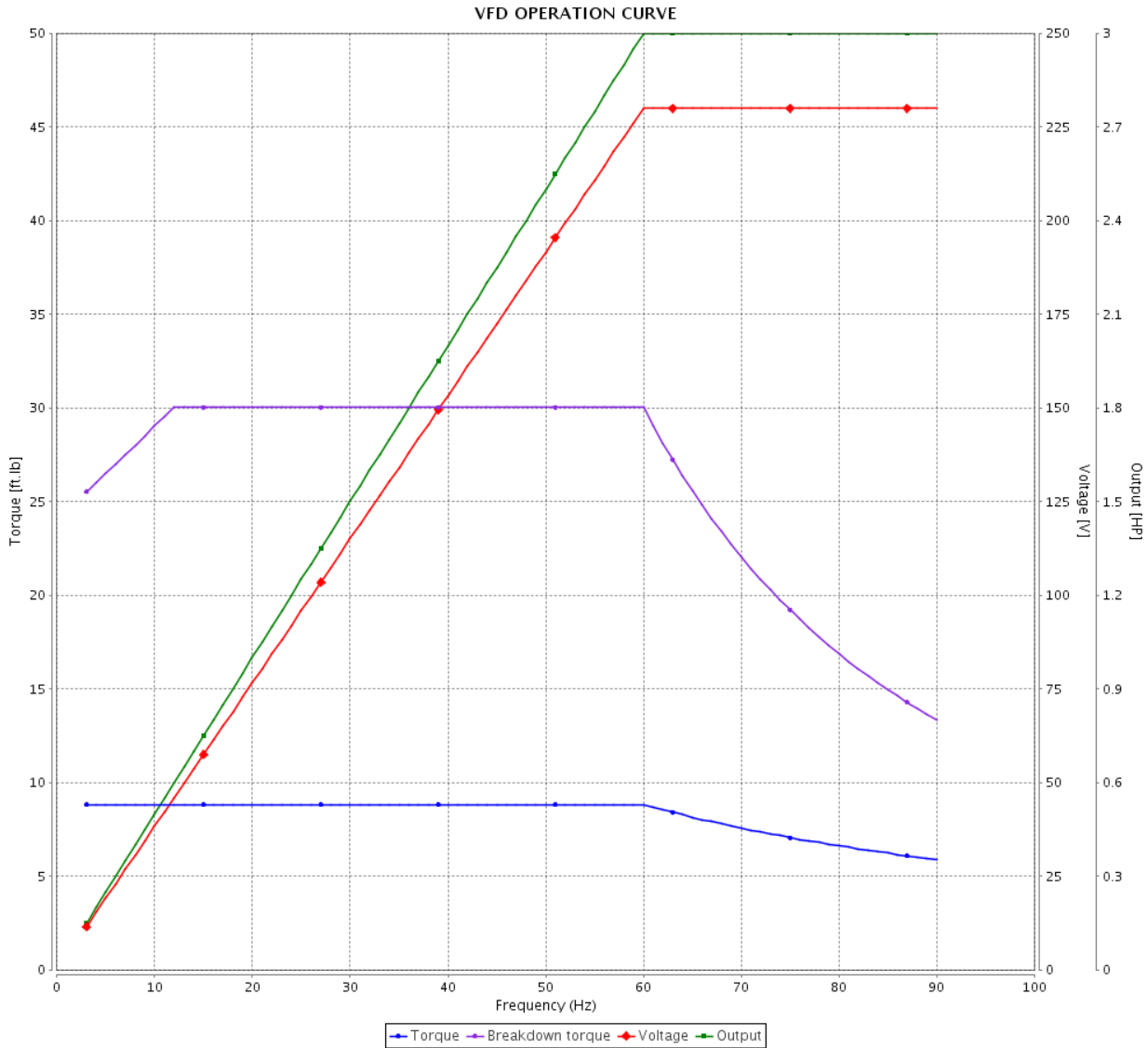


Customer : \_\_\_\_\_

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 12445724

Catalog # : 00318ET3E182TC-W22

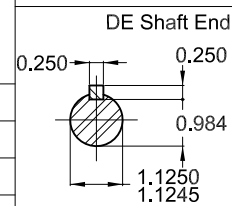
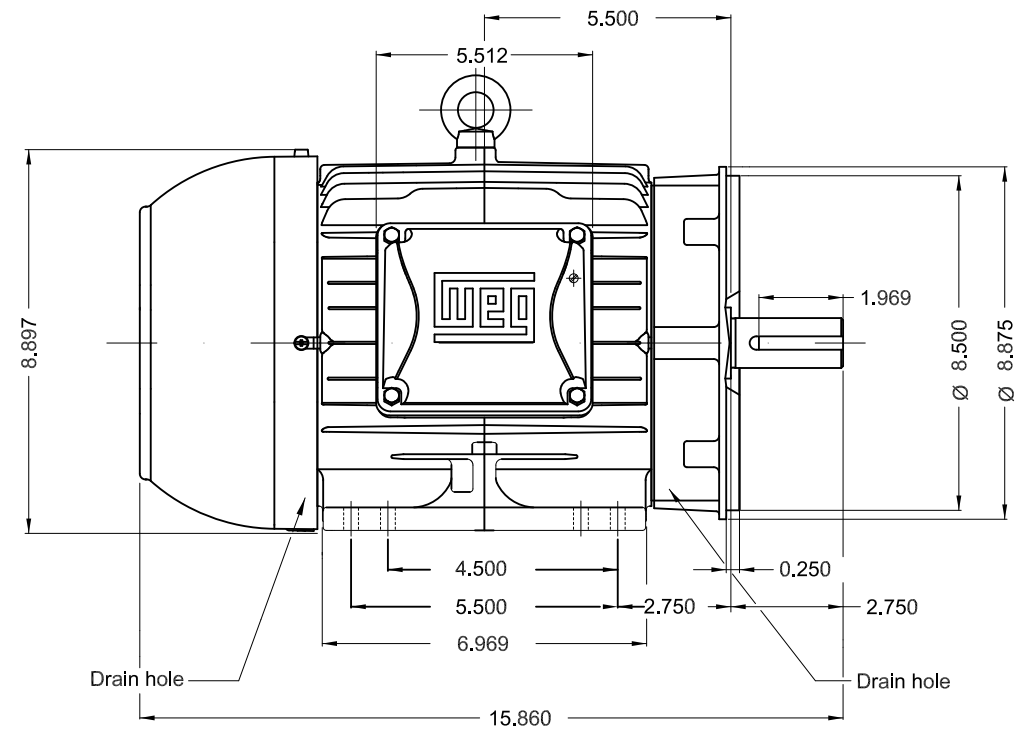
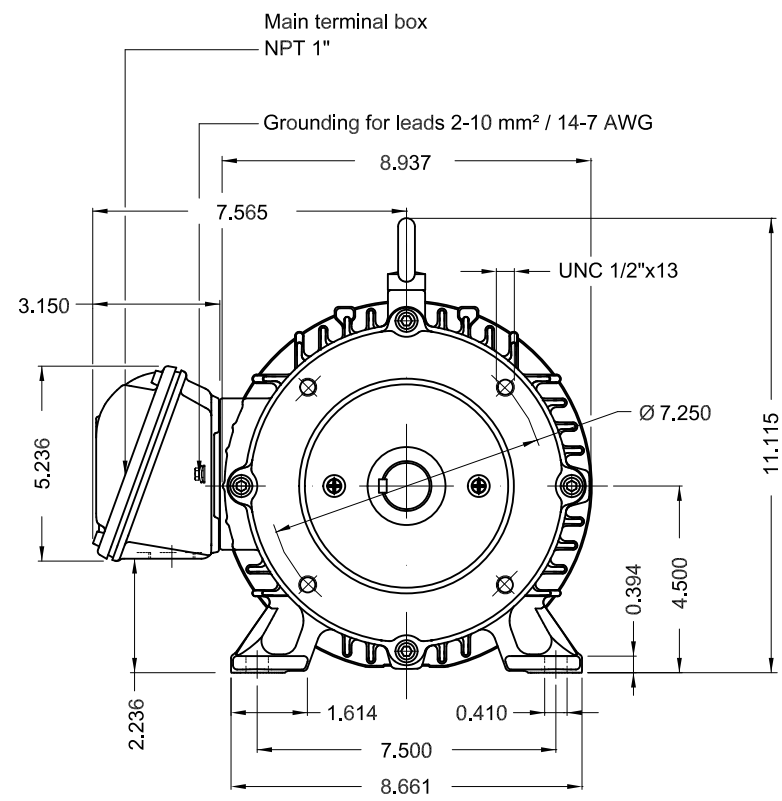


Performance : 208-230/460 V 60 Hz 4P

Rated current : 8.65-7.82/3.91 A  
 LRC : 8.1  
 Rated torque : 8.83 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 340 %  
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.3401 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by			6 / 6	
Date	15/01/2019			



Bearing cap  
 Color RAL 5009  
 Painting plan 207A  
 Mounting B34R(D)

3 HP 04 Poles 60Hz

Dimensions in inches

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN	THREE PHASE W22 MOTOR - NEMA PREMIUM EFF FRAME 182/4TC IP55 TEFC					
CHECKED							
RELEASED							
REL DT	WMO		Jaragua do Sul	Product Engineering			

**PREVIEW**  
 WDD



SHEET 1 / 1



**W22**

CC029A

® Inverter Duty Motor  
Severe Duty

12445724

MADE IN MEXICO MODEL 00318ET3E182TC-W22

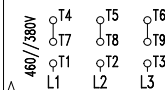
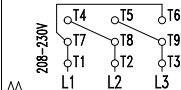
PH 3 | FR 182/4TC | HP(kw) 3.0(2.2) | Hz 60 | SF 1.25 | PF 0.79

V 230/460 | A 7.82/3.91 | RPM 1760 | INS. CL. F ΔT 80 K | IP55

NEMA NOM EFF 89.5 % | DES B | DUTY CONT. | AMB 40°C

ENCL TEFC | SFA 9.78/4.89 | USABLE @208V 8.65 A | SF 1.15 SFA 9.95

2.2kW 50Hz 380V 4.60A 1445RPM SF1.25 EFF 87.5% (IE3) | CODE K



→6207-ZZ

→6206-ZZ

MOBIL POLYREX EM

ALT 1000 m.a.s.l. | 93 Lbs

For 60Hz: Class I, Div 2, Gr. A, B, C and D - T3

Class I, Zone 2, IIC - T3

Class II, Div 2, Gr. F and G - T5

For use on PWM, Gr. A, B, C, D, F and G

VT1000:1, CT20:1, 1.0SF, T4A

C US  
Energy Verified3PT9  
US LISTEDFOR SAFE AREA  
MOD.TE1BFOXON