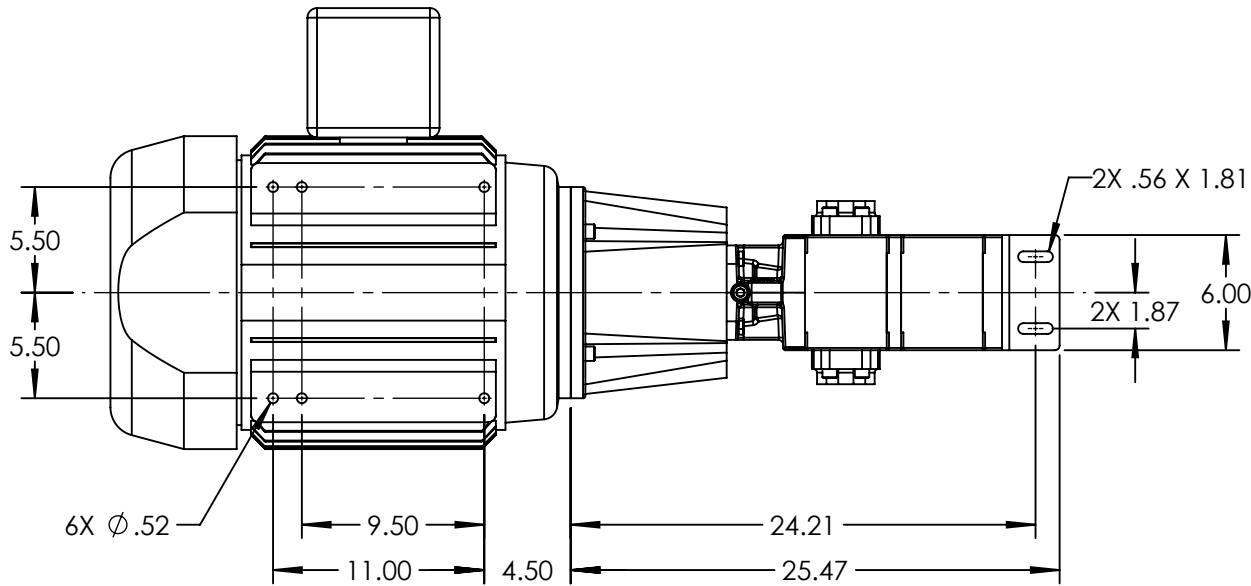
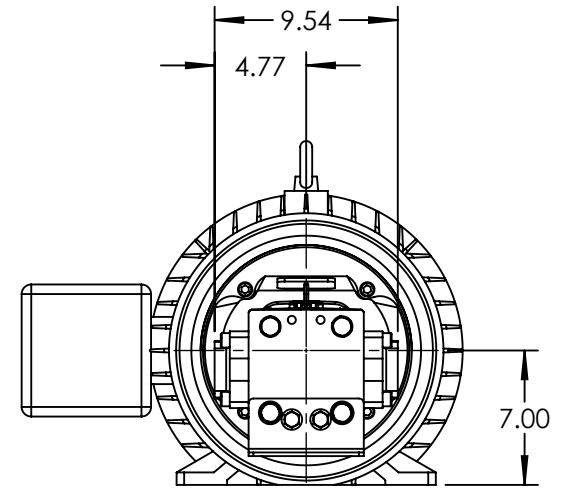
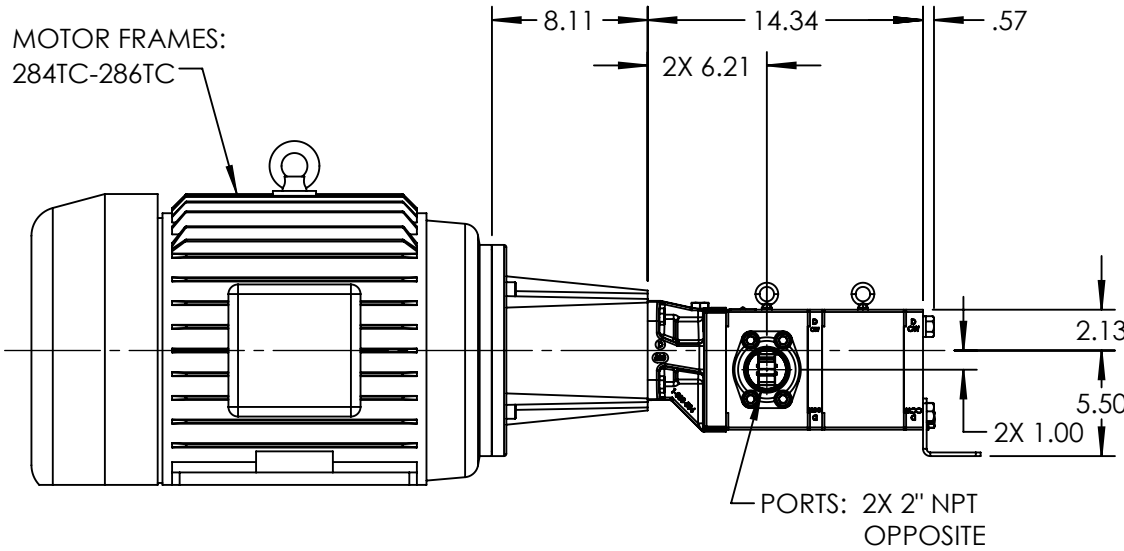


MOTOR FRAMES:  
284TC-286TC



STANDARD MODELS: GB-41018-G00-M, GB-41018-G10-M

NOTES:

1. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

STATE	Released	07/15/2021
DRAWN	bmanternach	6/23/2021
CHECKED	JAG	07/15/2021

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. GPV-1018-031-U  
SHEET 1 OF 1

REV. A.0  
07/15/2021



# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

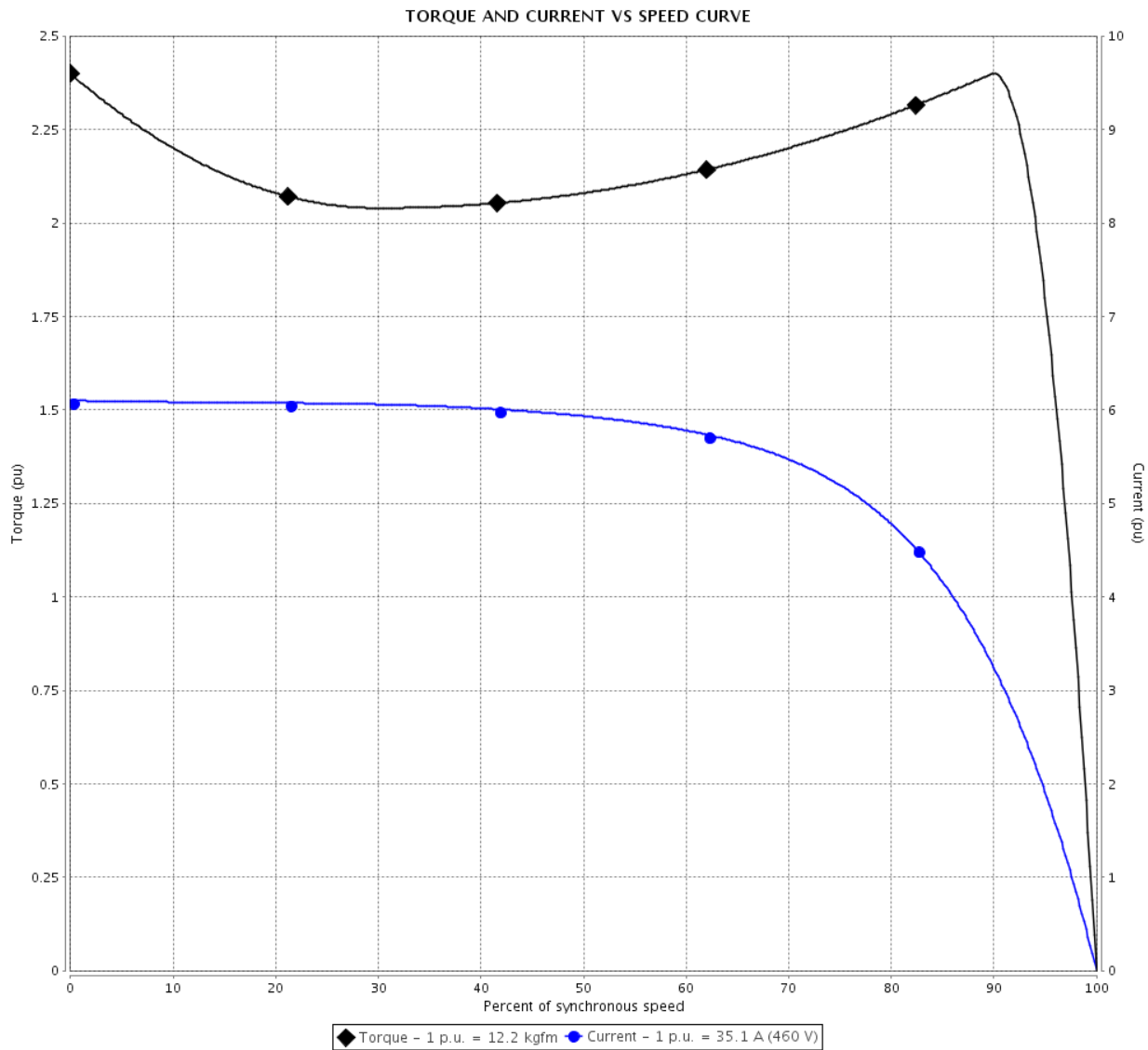


Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 11457085

Catalog # : 03018ET3E286TC-W22



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

Rated current	: 77.6-70.2/35.1 A	Moment of inertia (J)	: 0.2467 kgm <sup>2</sup>
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 12.2 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 6	Revision
Checked by				
Date	14/02/2020			

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

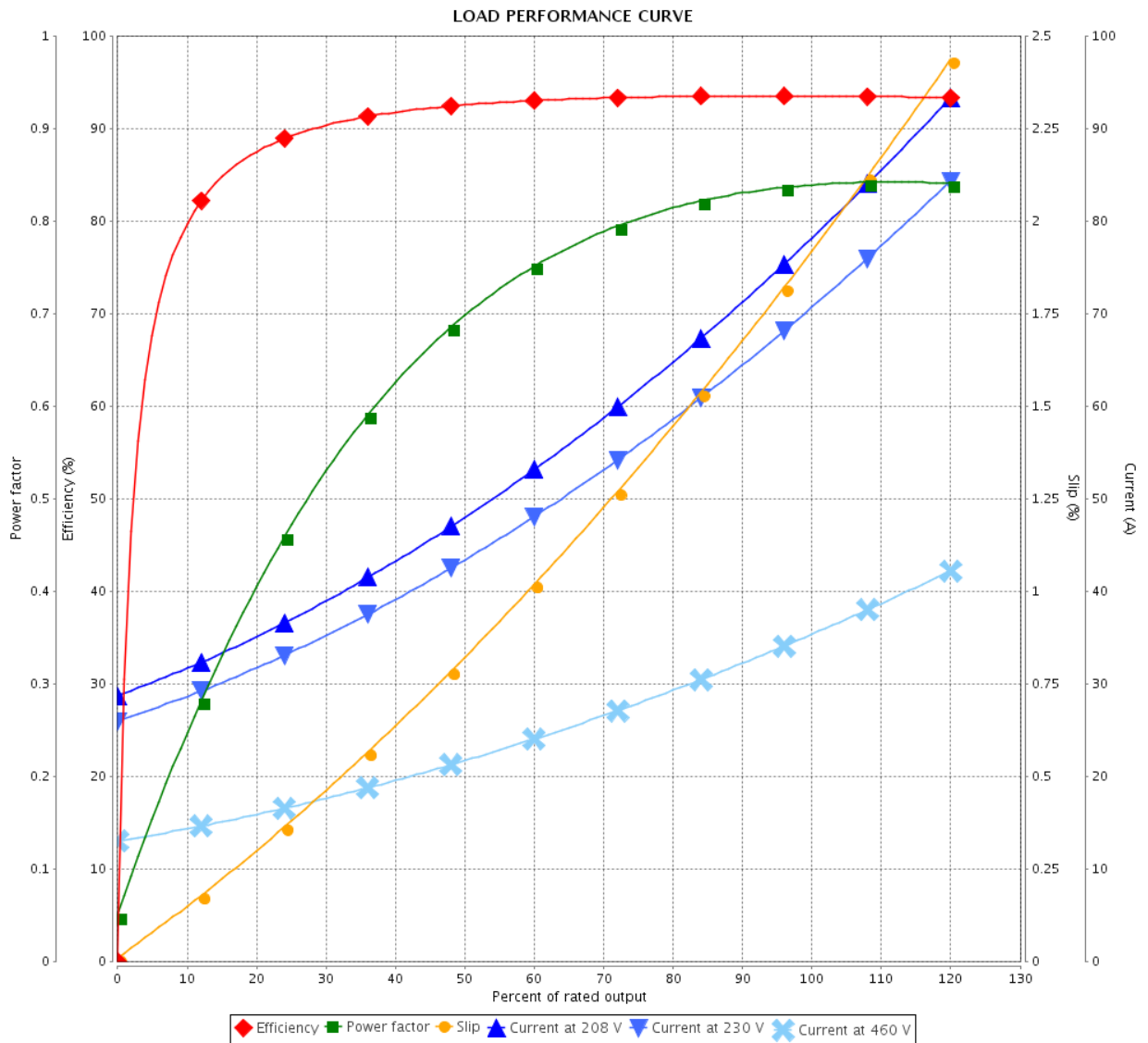


Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11457085

Catalog # : 03018ET3E286TC-W22



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

Rated current : 77.6-70.2/35.1 A  
 LRC : 6.1  
 Rated torque : 12.2 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 240 %  
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.2467 kgm<sup>2</sup>  
 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		14/02/2020		

# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 11457085

Catalog # : 03018ET3E286TC-W22

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

Rated current : 77.6-70.2/35.1 A  
LRC : 6.1  
Rated torque : 12.2 kgfm  
Locked rotor torque : 240 %  
Breakdown torque : 240 %  
Rated speed : 1765 rpm

Moment of inertia (J) : 0.2467 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

Heating constant

Cooling constant

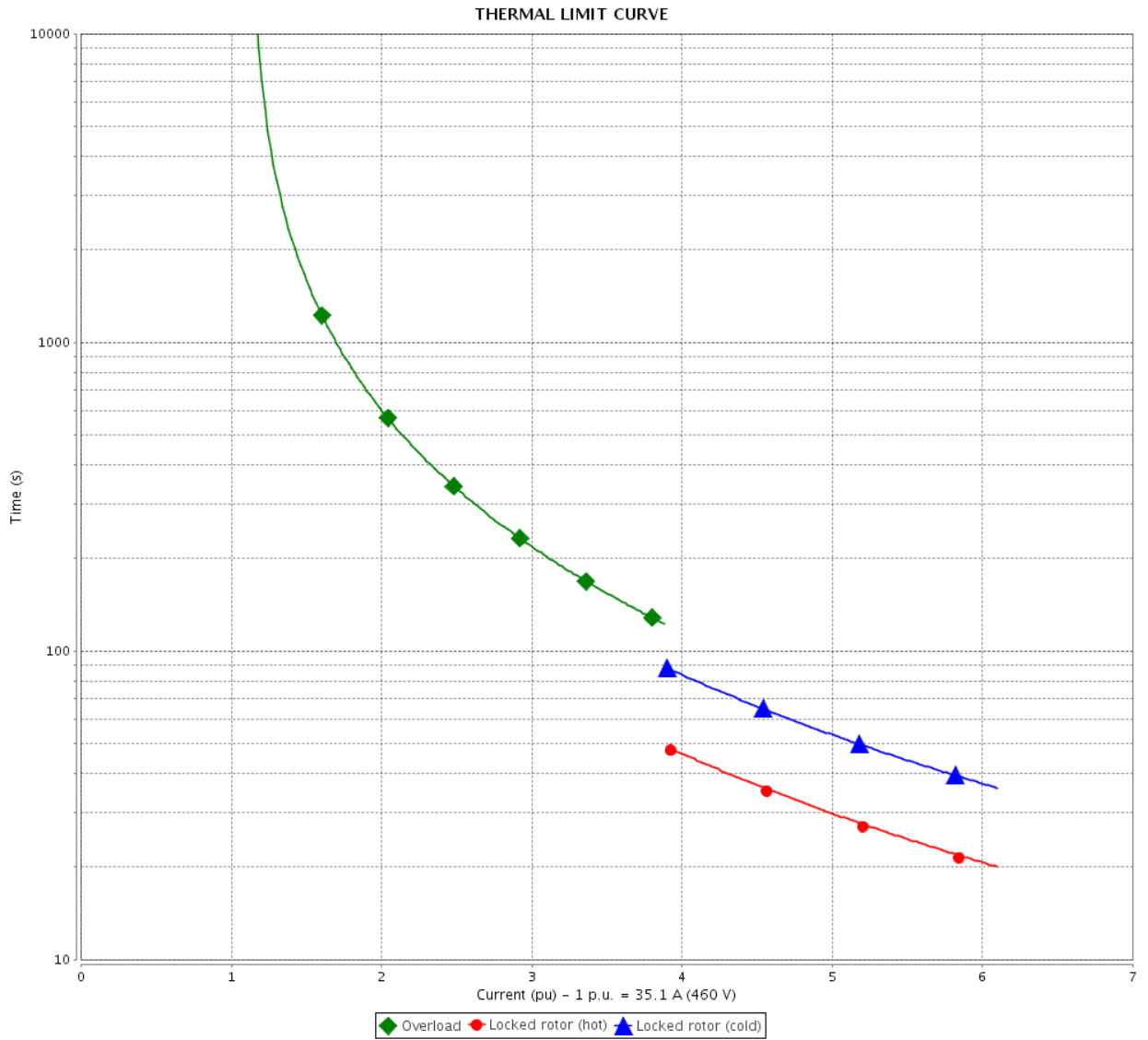
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	14/02/2020		4 / 6	

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



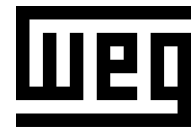
Customer : \_\_\_\_\_



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

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

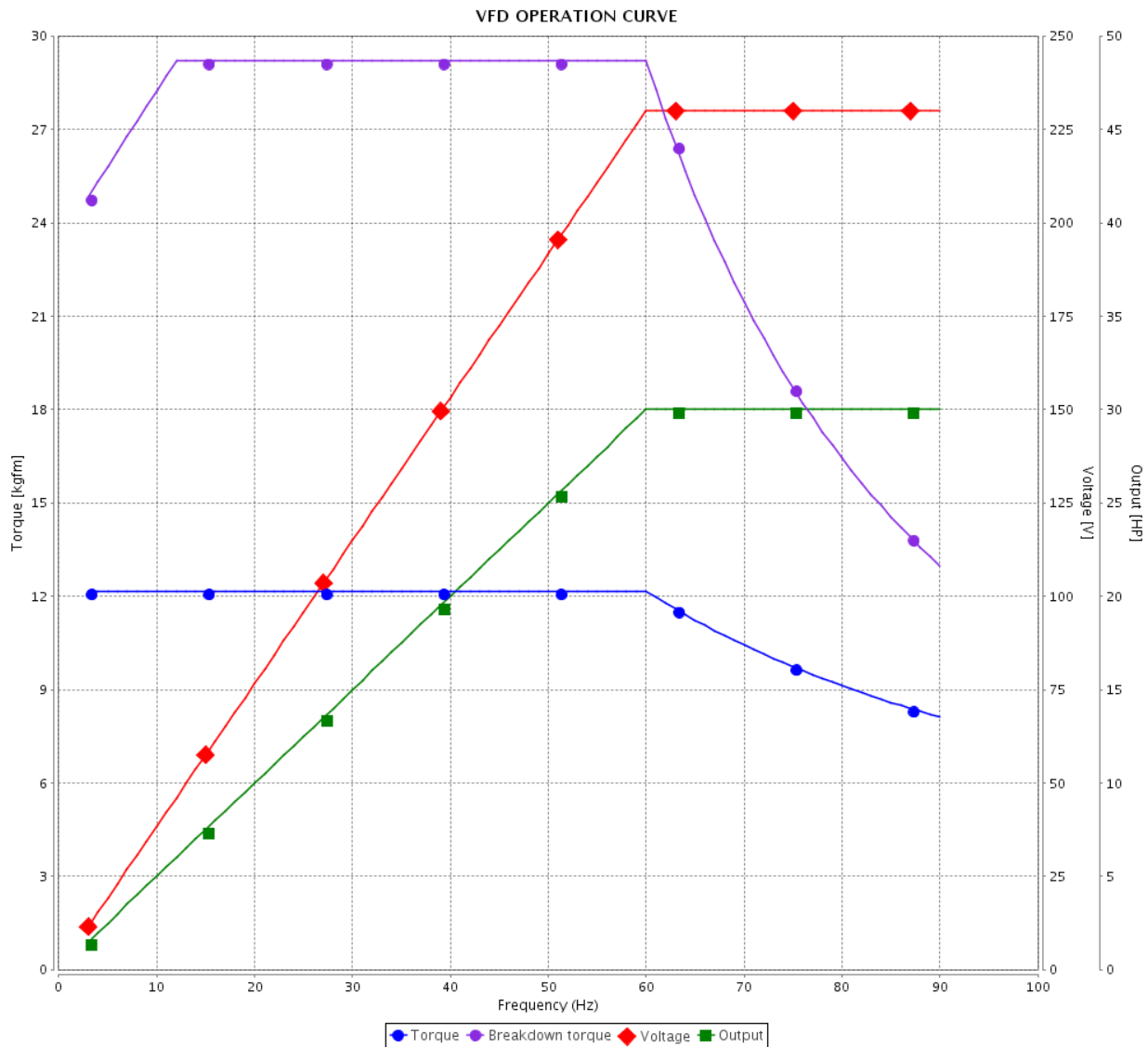


Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11457085

Catalog # : 03018ET3E286TC-W22



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

Rated current : 77.6-70.2/35.1 A  
 LRC : 6.1  
 Rated torque : 12.2 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 240 %  
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.2467 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

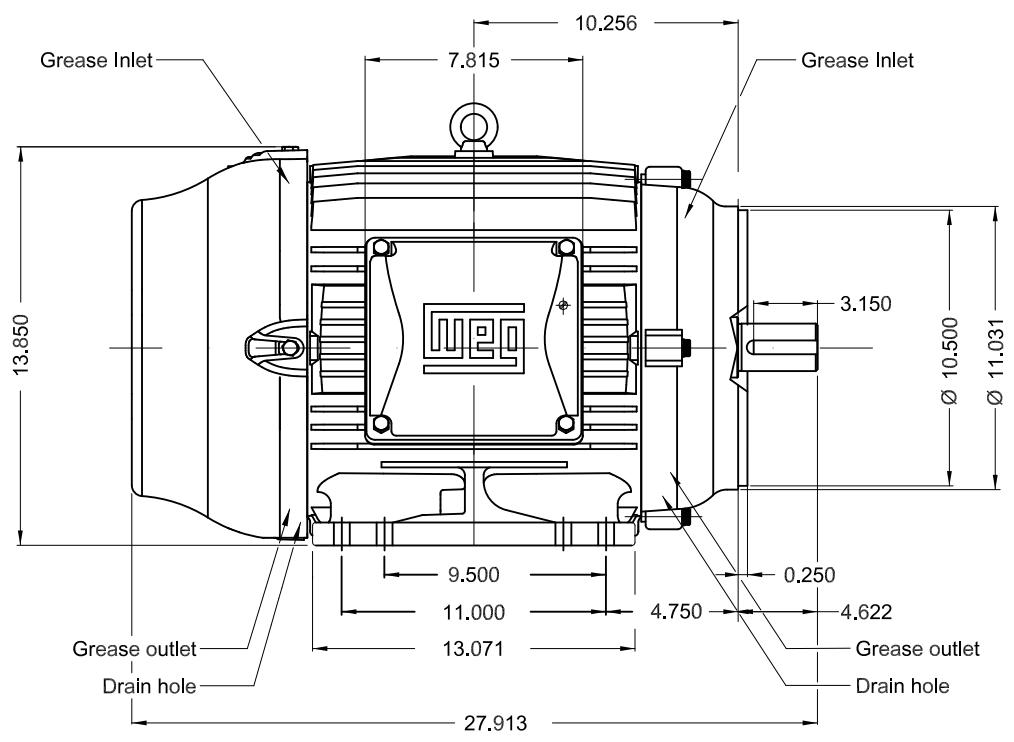
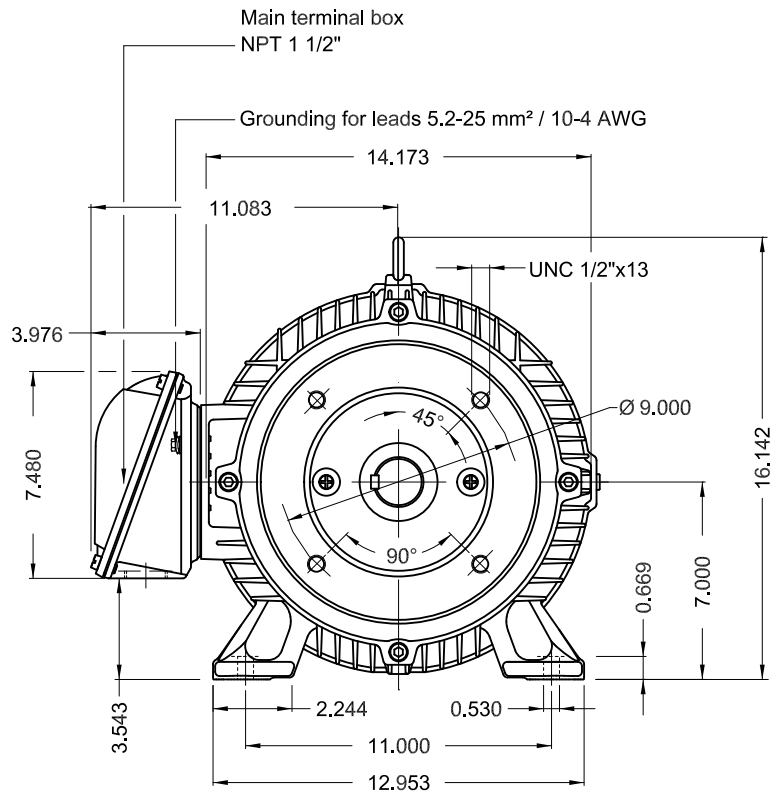
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 6 / 6	Revision
Checked by				
Date	14/02/2020			

1 2 3 4 5 6

A

B

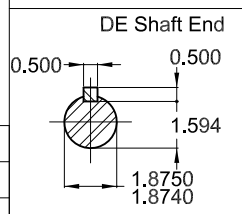
C



D

E

Color RAL 5009  
 Painting plan 203A  
 Mounting B34R(D)



30 HP 04 Poles 60Hz A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PHASE W22 MOTOR - NEMA PREMIUM EFF FRAME 284/6TC IP55 TEFC					
CHECKED							
RELEASED							
REL DT.	WMO		Jaragua do Sul	Product Engineering	SHEET	1 / 1	

PREVIEW  
 WDD





MODEL 03018ET3E286TC-W22  
MADE IN BRAZIL  
11457085

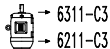
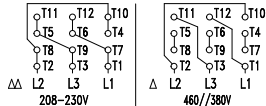


FOR SAFE AREA  
MOD.TE1BFOXON



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 - T4  
For 60Hz use on PWM, Gr. A, B, C, D and F,  
VT 1000:1, CT 20:1, 1.0SF, T3A

PH 3	FR 284/6TC	HP(kW) 30.0(22.0)	Hz 60
V 230/460	A 70.2/35.1	RPM 1765	DES B
NEMA NOM EFF 93.6 %	INS. CL. F $\Delta$ T 80 K	IP55	
ENCL TEFC	DUTY CONT.	AMB. 40°C	
CODE G	PF 0.84	SF 1.25	SFA 87.8/43.9
USABLE @208V 77.6 A	SF 1.15	SFA 89.2	
30HP 22kW 50Hz 380V 43.1A 1445RPM SF1.00 EFF 90.2% (IE1)	ALT 1000 m.a.s.l.	459 Lbs	



MOBIL POLYREX EM  
18 g 20000 h