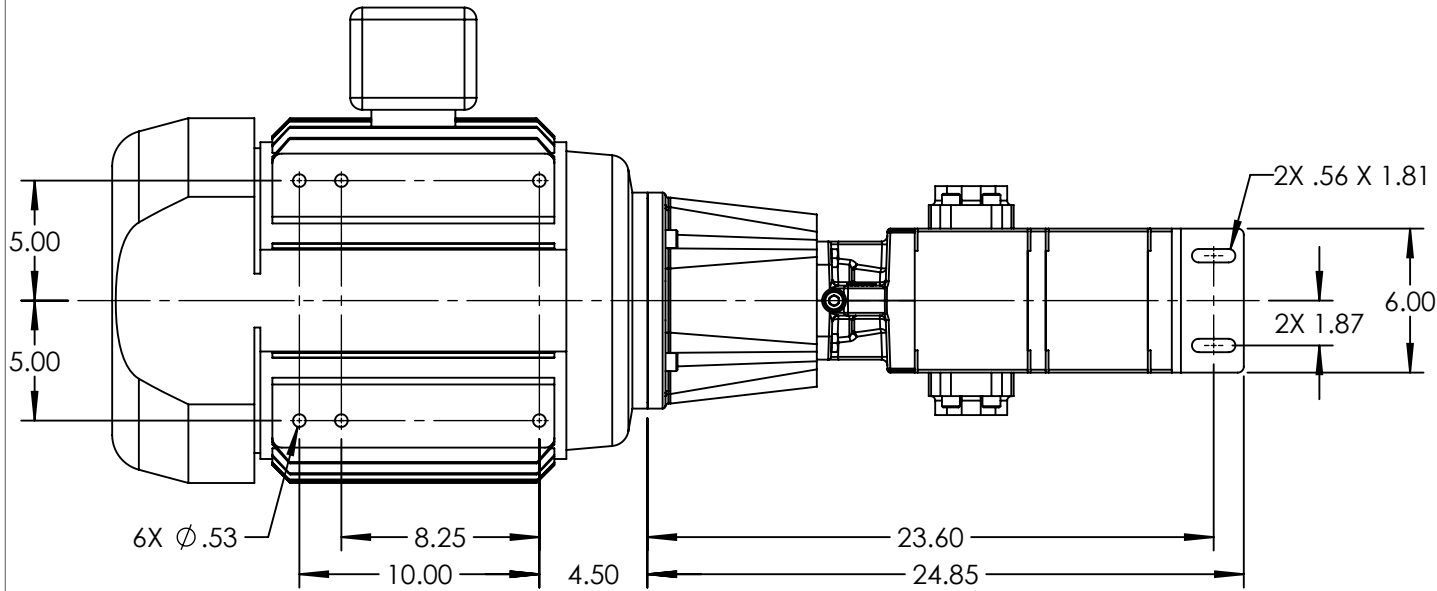
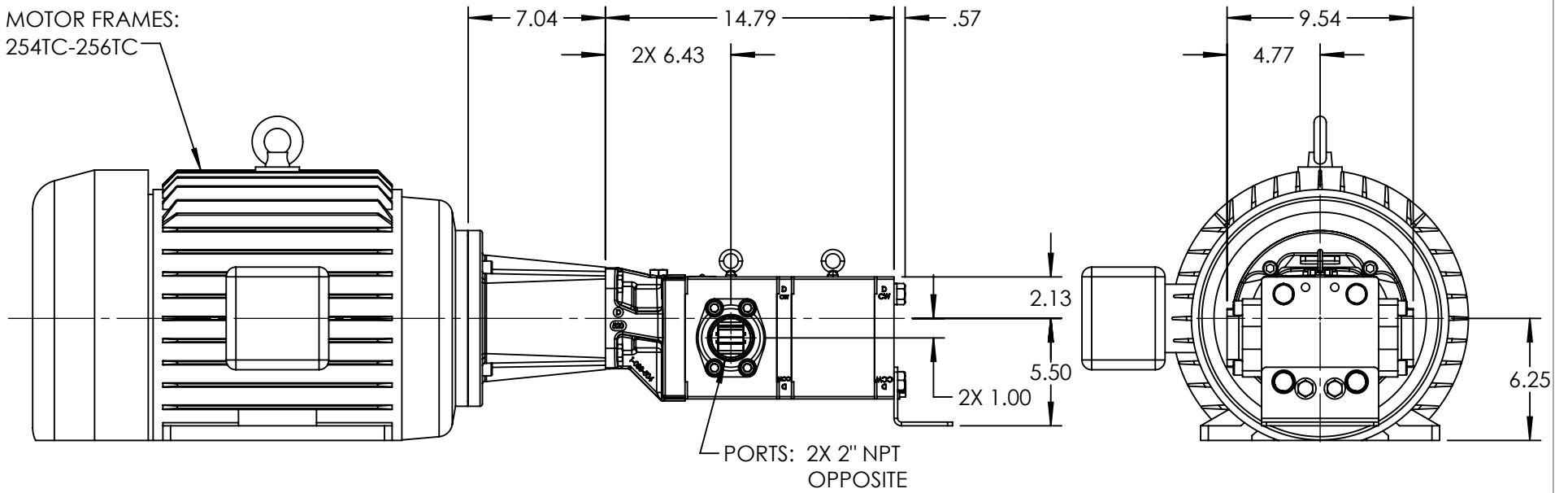


MOTOR FRAMES:
254TC-256TC



NOTES:

1. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

STANDARD MODELS: GB-41022-G00-M, GB-41022-G10-M

STATE	Released	08/18/2021
DRAWN	bmanernach	8/18/2021
CHECKED	BAM	08/18/2021

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-1022-004-U

REV. A.0
08/18/2021

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :																										
Product line		: W22 NEMA Premium Efficiency Three-Phase		Product code : 12446945																						
				Catalog # : 01518ET3E254TC-W22																						
Frame : 254/6TC Output : 15 HP (11 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 208-230/460 V Rated current : 39.8-36.0/18.0 A L. R. Amperes : 255-230/115 A LRC : 6.4x(Code G) No load current : 11.7-13.6/6.80 A Rated speed : 1765 rpm Slip : 1.94 % Rated torque : 44.0 ft.lb Locked rotor torque : 229 % Breakdown torque : 270 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 2.62 sq.ft.lb Design : B		Locked rotor time : 30s (cold) 17s (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 : 64.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 316 lb																								
<table border="1"> <tr> <td>Output</td> <td>25%</td> <td>50%</td> <td>75%</td> <td>100%</td> <td colspan="2">Foundation loads</td> </tr> <tr> <td>Efficiency (%)</td> <td>90.2</td> <td>91.0</td> <td>91.7</td> <td>92.4</td> <td>Max. traction</td> <td>: 489 lb</td> </tr> <tr> <td>Power Factor</td> <td>0.44</td> <td>0.68</td> <td>0.78</td> <td>0.83</td> <td>Max. compression</td> <td>: 805 lb</td> </tr> </table>		Output	25%	50%	75%	100%	Foundation loads		Efficiency (%)	90.2	91.0	91.7	92.4	Max. traction	: 489 lb	Power Factor	0.44	0.68	0.78	0.83	Max. compression	: 805 lb				
Output	25%	50%	75%	100%	Foundation loads																					
Efficiency (%)	90.2	91.0	91.7	92.4	Max. traction	: 489 lb																				
Power Factor	0.44	0.68	0.78	0.83	Max. compression	: 805 lb																				
		<u>Drive end</u> Bearing type : 6309 C3 Sealing : V'Ring Lubrication interval : 20000 h Lubricant amount : 13 g Lubricant type : Mobil Polyrex EM		<u>Non drive end</u> Bearing type : 6209 C3 Sealing : V'Ring Lubrication interval : 20000 h Lubricant amount : 9 g																						
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.																							
Rev.	Changes Summary		Performed	Checked	Date																					
Performed by																										
Checked by				Page	Revision																					
Date	23/08/2019			1 / 6																						

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



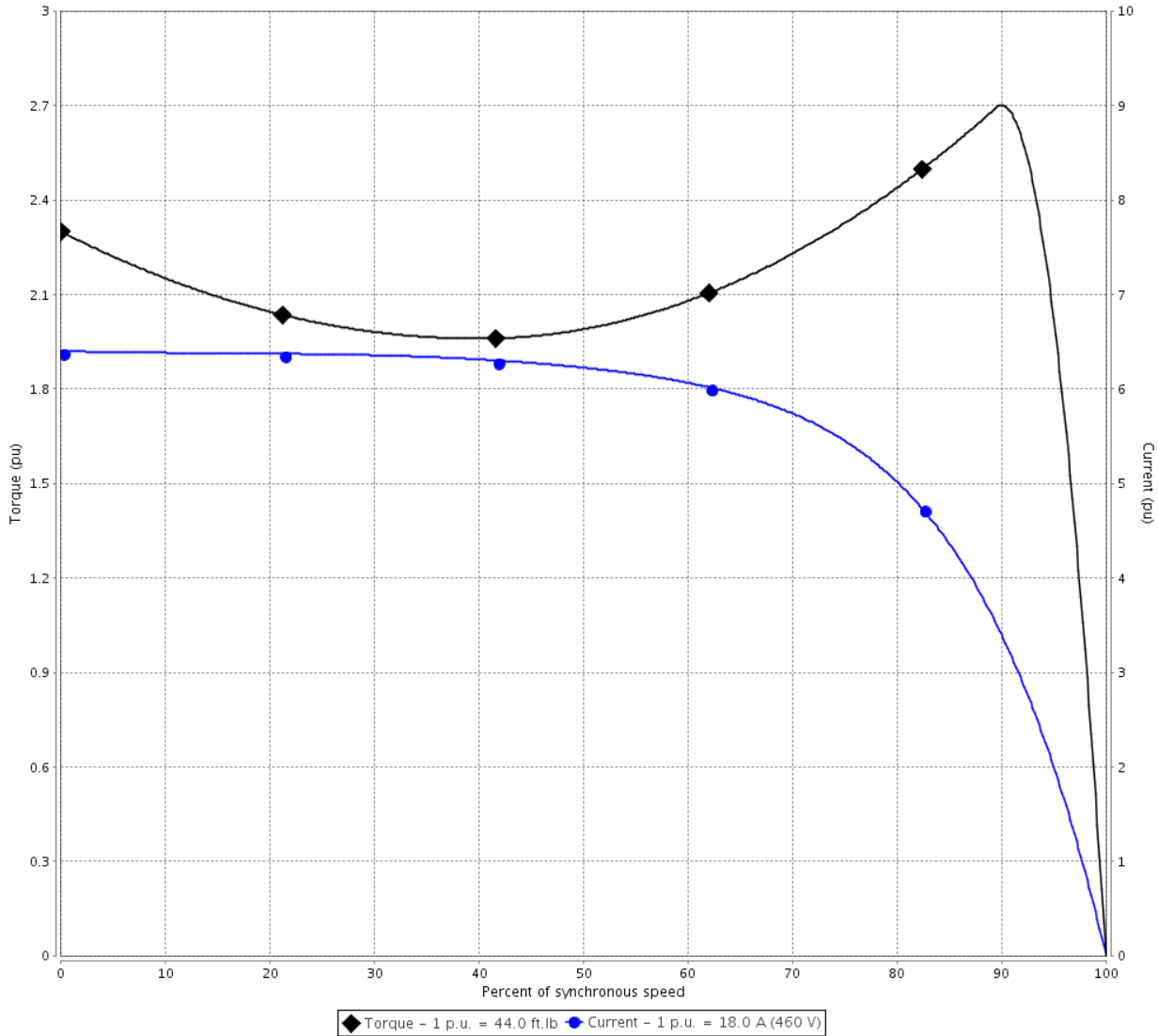
Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12446945

Catalog # : 01518ET3E254TC-W22

TORQUE AND CURRENT VS SPEED CURVE



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

Rated current	: 39.8-36.0/18.0 A	Moment of inertia (J)	: 2.62 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 44.0 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

Locked rotor time : 30s (cold) 17s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 6	Revision
Checked by				
Date	23/08/2019			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

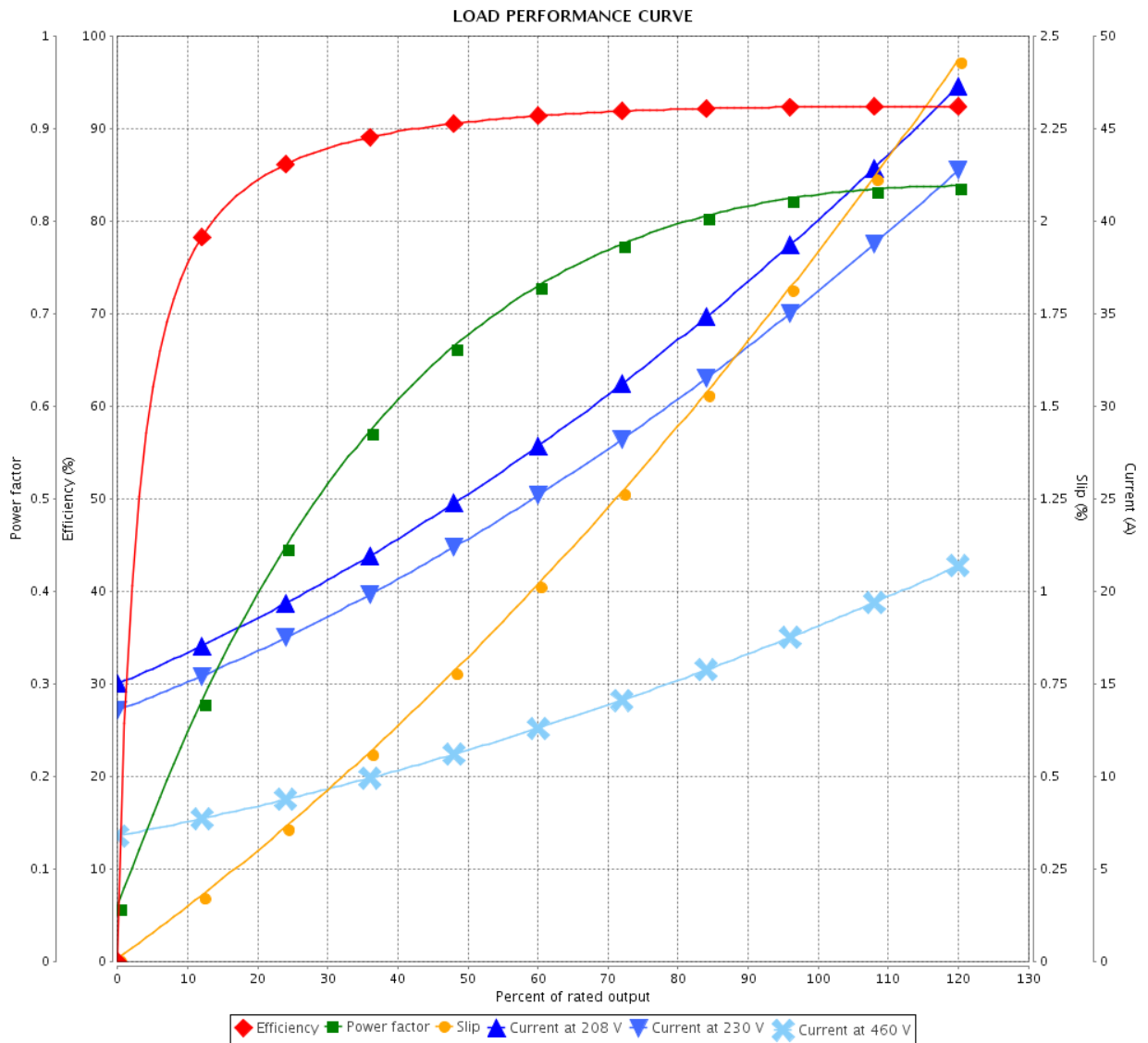


Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12446945

Catalog # : 01518ET3E254TC-W22



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

Rated current : 39.8-36.0/18.0 A
 LRC : 6.4
 Rated torque : 44.0 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 270 %
 Rated speed : 1765 rpm

Moment of inertia (J) : 2.62 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				
Date				

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12446945

Catalog # : 01518ET3E254TC-W22

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

Rated current : 39.8-36.0/18.0 A
LRC : 6.4
Rated torque : 44.0 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 270 %
Rated speed : 1765 rpm

Moment of inertia (J) : 2.62 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

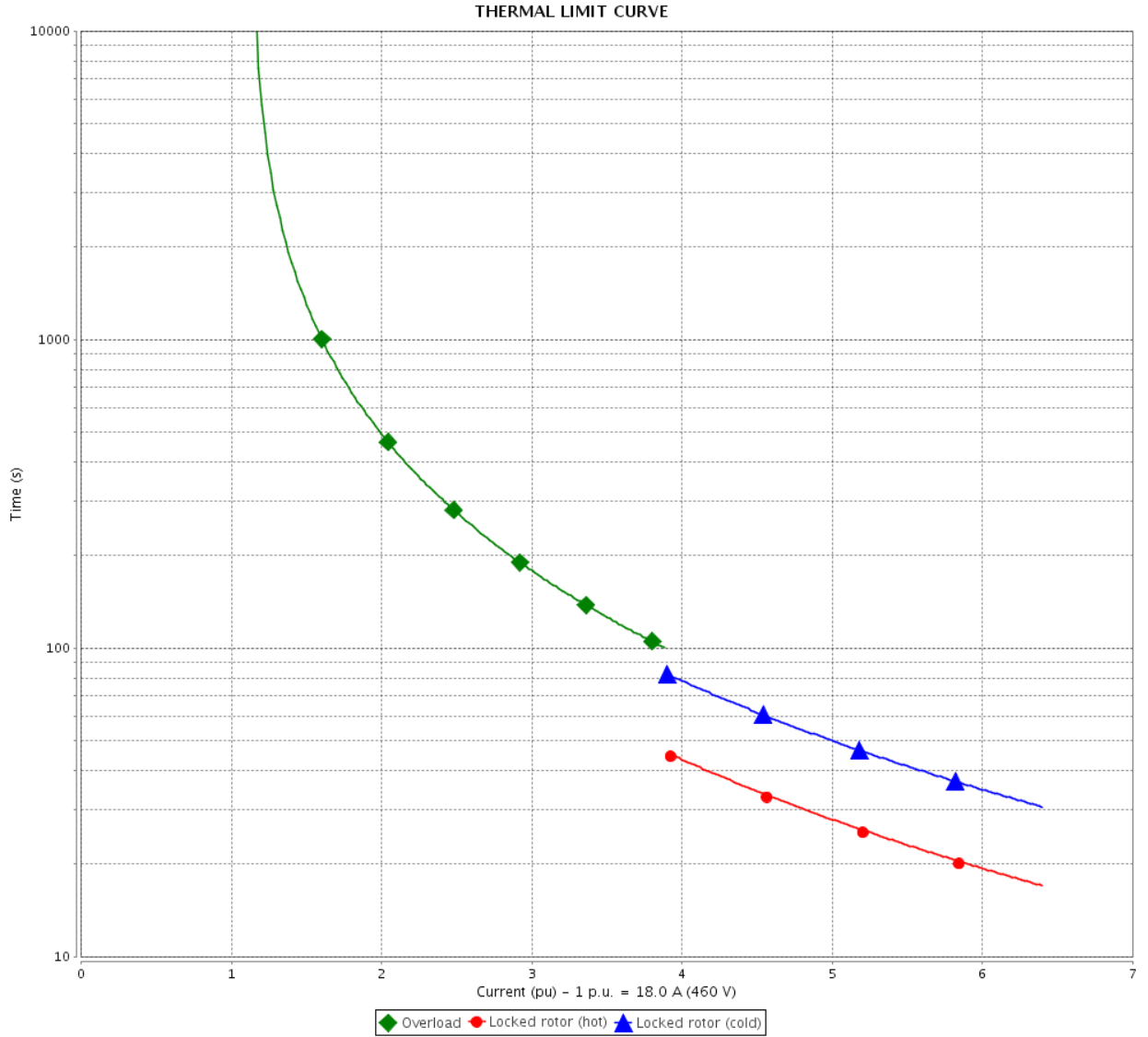
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	23/08/2019		4 / 6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date				
			Page	Revision
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

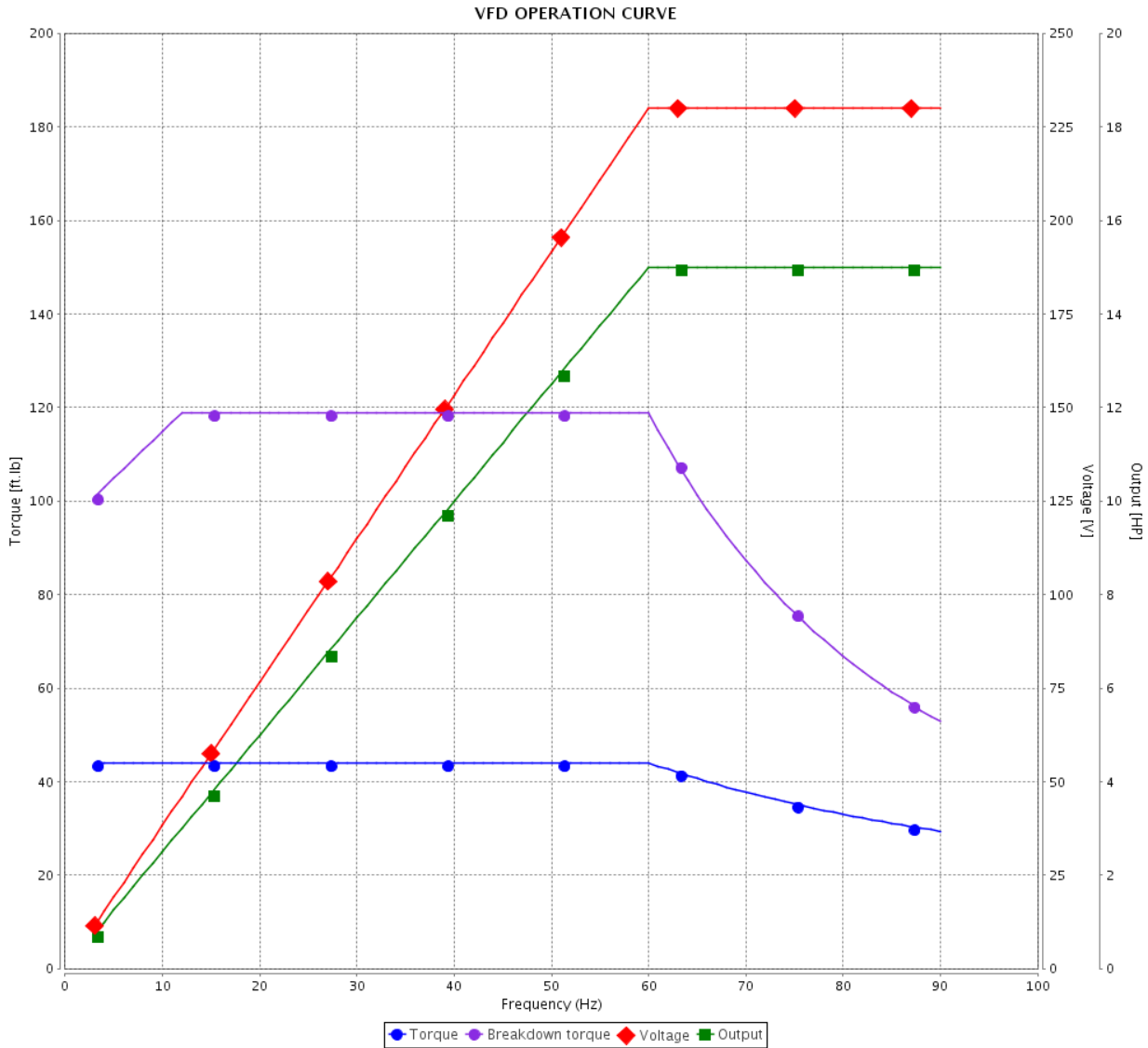


Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12446945

Catalog # : 01518ET3E254TC-W22



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

Rated current : 39.8-36.0/18.0 A
 LRC : 6.4
 Rated torque : 44.0 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 270 %
 Rated speed : 1765 rpm

Moment of inertia (J) : 2.62 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

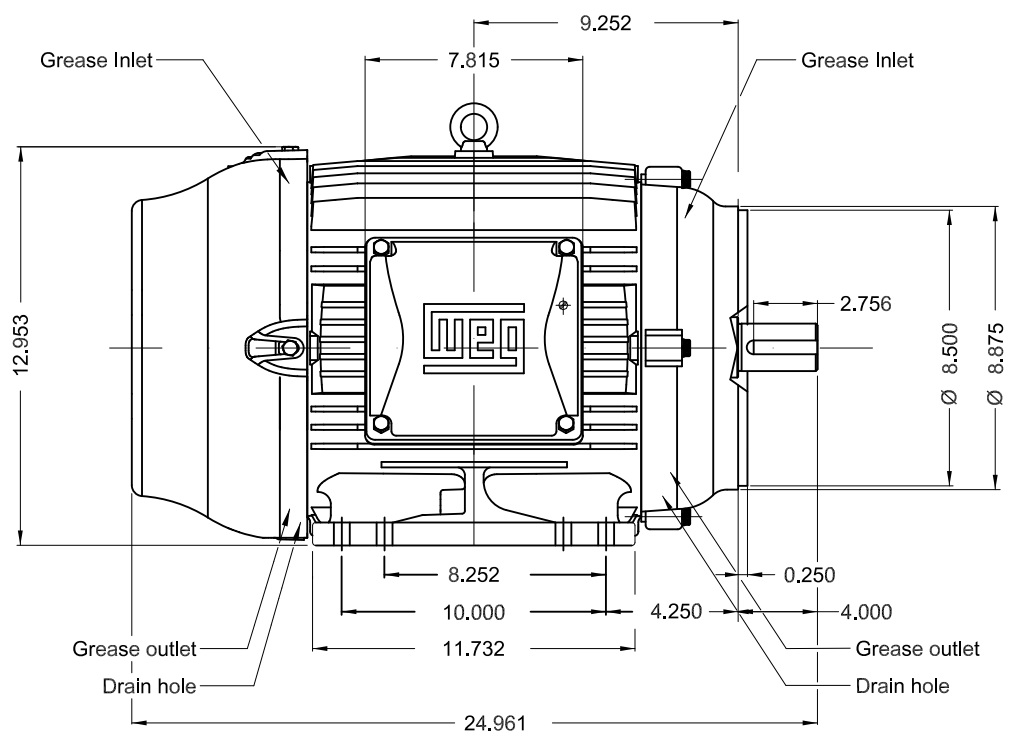
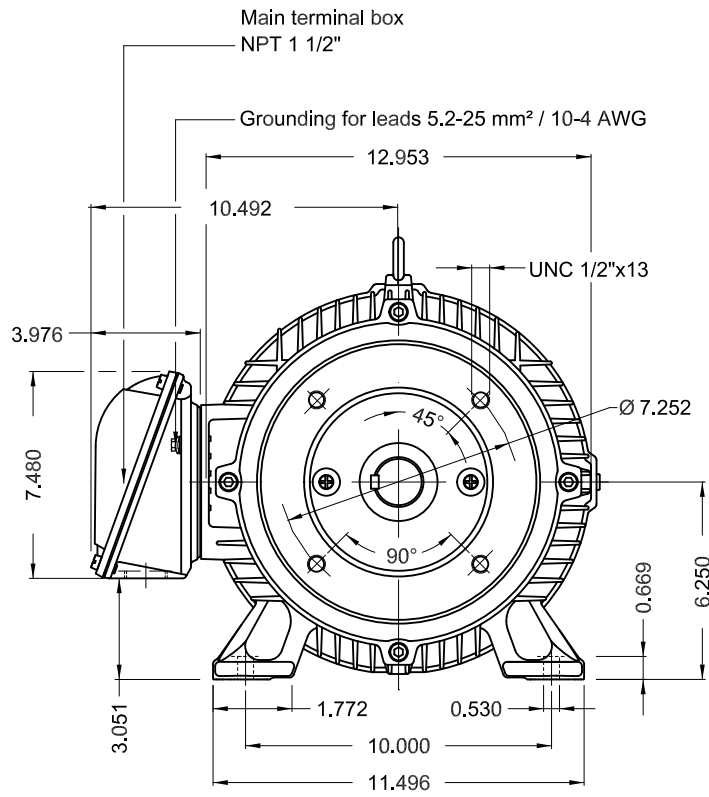
Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		6 / 6		
Date	23/08/2019			

1 2 3 4 5 6

A

B

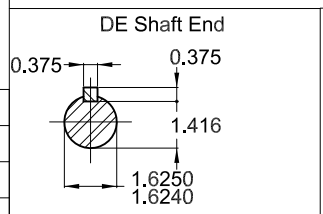
C



D

E

Without vertical jackscrews
 Color RAL 5009
 Painting plan 203A
 Mounting B34R(D)



15 HP 04 Poles 60Hz A

ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN		THREE PHASE W22 MOTOR - NEMA PREMIUM EFF		PREVIEW	WDD	SHEET	1 / 1	
CHECKED			FRAME 254/6TC IP55 TEFC						
RELEASED									
REL DT.		WMO	Jaragua do Sul	Product Engineering					

Dimensions in inches

XME A3



FOR SAFE AREA
MOD.TE1BFOXON



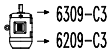
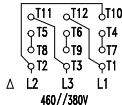
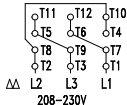
For 60Hz: Class I, Div 2, Gr. A, B, C and D - T3
Class I, Zone 2, IIC - T3

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

CT015404NPW22
MADE IN BRAZIL
12446945

PH 3	FR 254/6TC	HP(kW) 15.0(11.0)	Hz 60
V 230/460	A 36.0/18.0	RPM 1765	DES B
NEMA NOM EFF 92.4 %	INS. CL. F ΔT 80 K	IP55	
ENCL TEFC	DUTY CONT.	AMB. 40°C	
CODE G	PF 0.83	SF 1.25	SFA 45.0/22.5
USABLE @208V 39.8 A	SF 1.15	SFA 45.8	
15HP 11kW 50Hz 380V 21.5A 1455RPM SF1.00 EFF 90.2% (IE2)	ALT 1000 m.a.s.l.	315 Lbs	



MOBIL POLYREX EM
13 g 20000 h