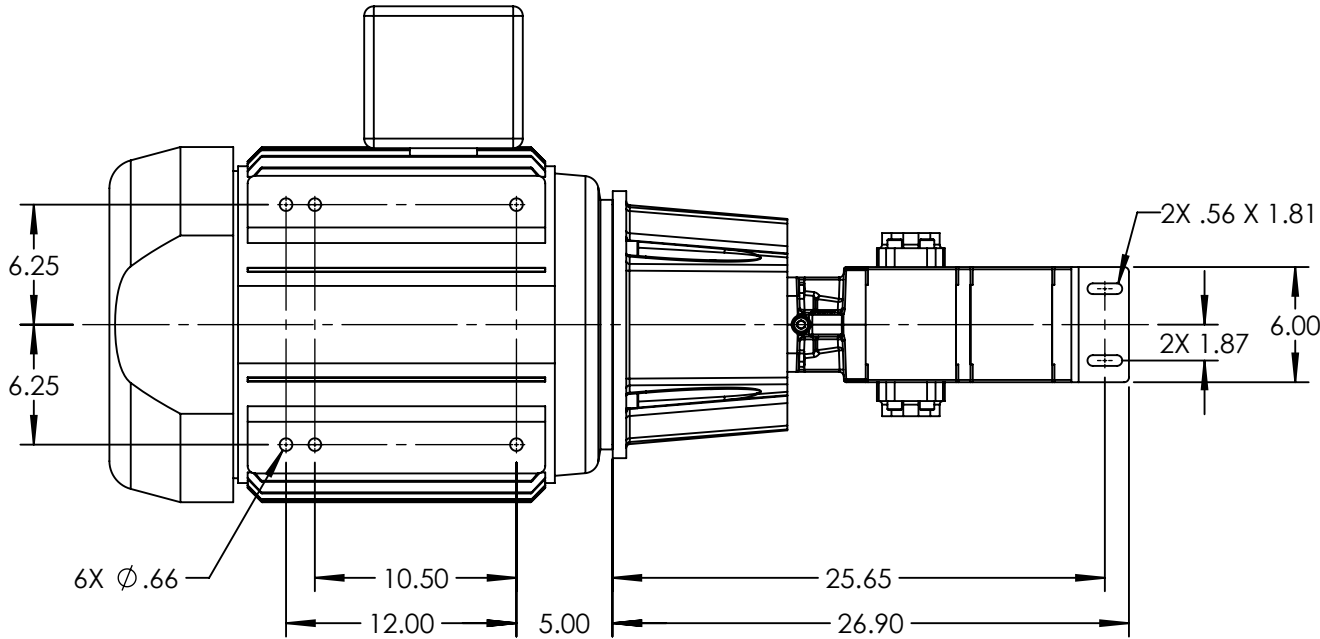
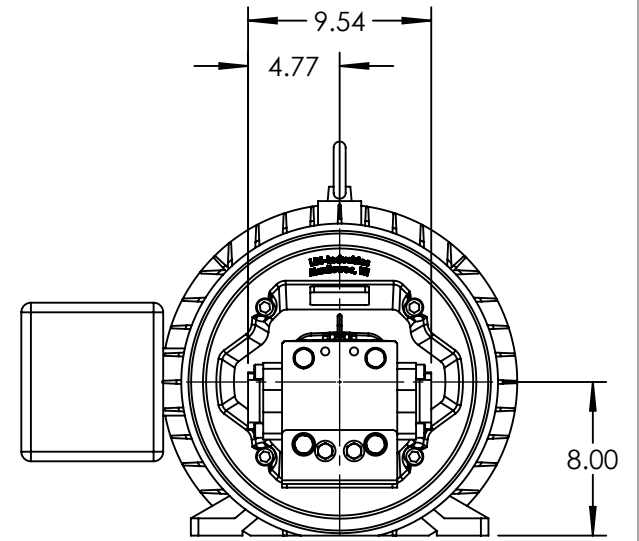
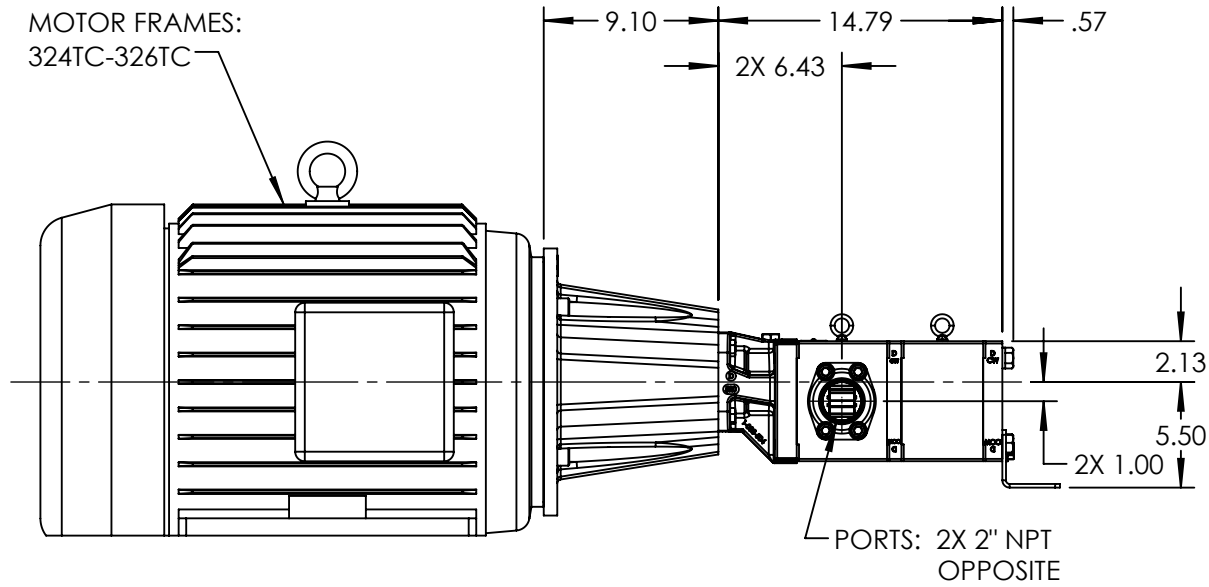


MOTOR FRAMES:
324TC-326TC



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

NOTES:

1. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

STATE	Released	07/16/2021
DRAWN	bmanernach	7/1/2021
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. GPV-1022-003-U
SHEET 1 OF 1

REV. A.0
07/16/2021

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12447129
Catalog # : 04018ET3E324TC-W22

Frame	: 324/6TC	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 40 HP (30 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 104-94.2/47.1 A	Protection degree	: IP55
L. R. Amperes	: 635-575/287 A	Cooling method	: IC411 - TEFC
LRC	: 6.1x(Code G)	Mounting	: F-1
No load current	: 29.3-34.0/17.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1770 rpm	Noise level ²	: 66.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 16.2 kgfm	Approx. weight ³	: 267 kg
Locked rotor torque	: 229 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.3861 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	93.6	94.1	94.1	Max. traction	: 438 kgf
Power Factor	0.00	0.72	0.80	0.85	Max. compression	: 705 kgf

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: 6312 C3	6212 C3
Sealing	: V'Ring	V'Ring
Lubrication interval	: 20000 h	20000 h
Lubricant amount	: 21 g	13 g
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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	14/02/2020		1 / 6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

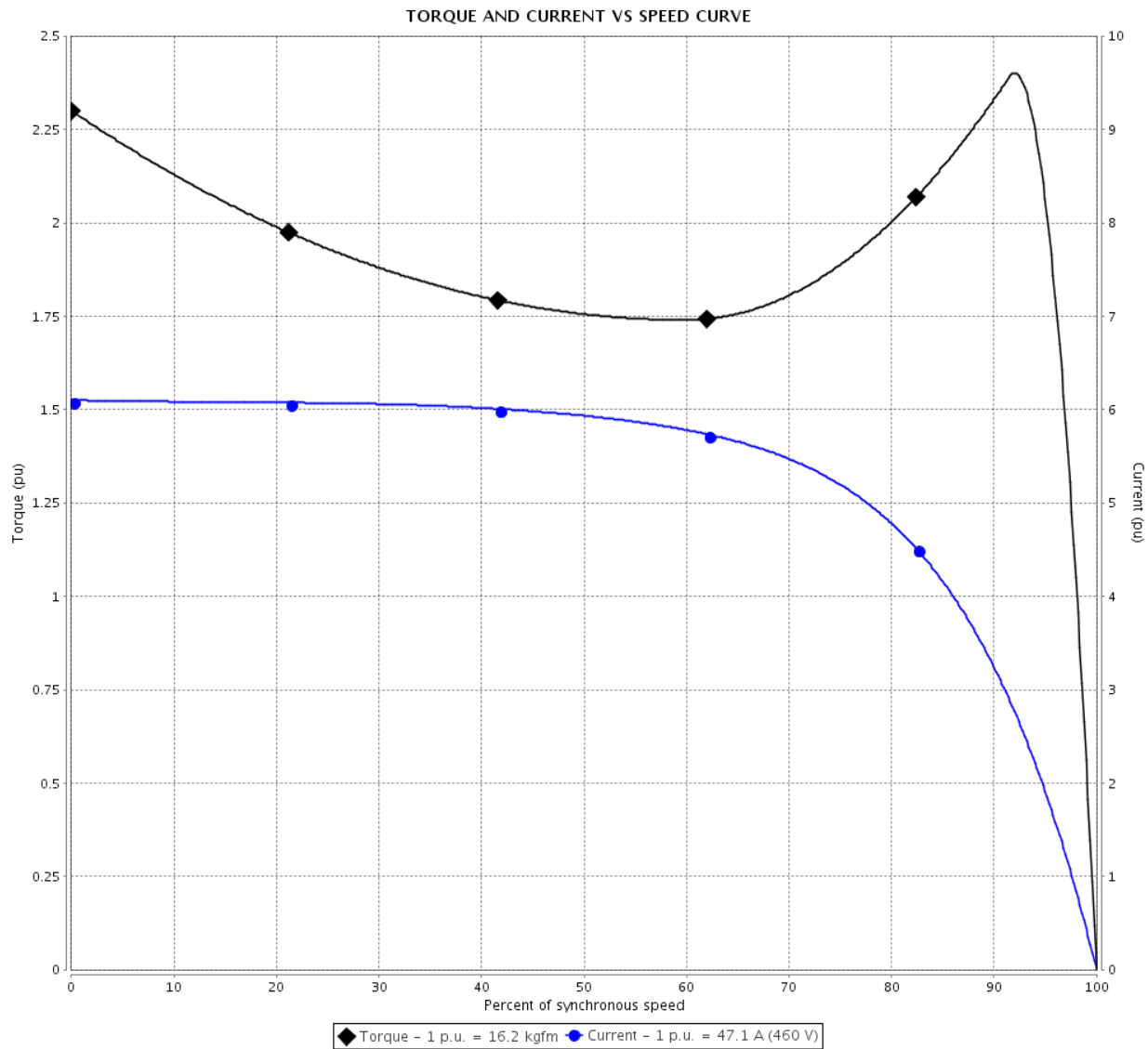


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12447129

Catalog # : 04018ET3E324TC-W22



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

Rated current	: 104-94.2/47.1 A	Moment of inertia (J)	: 0.3861 kgm ²
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 16.2 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1770 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

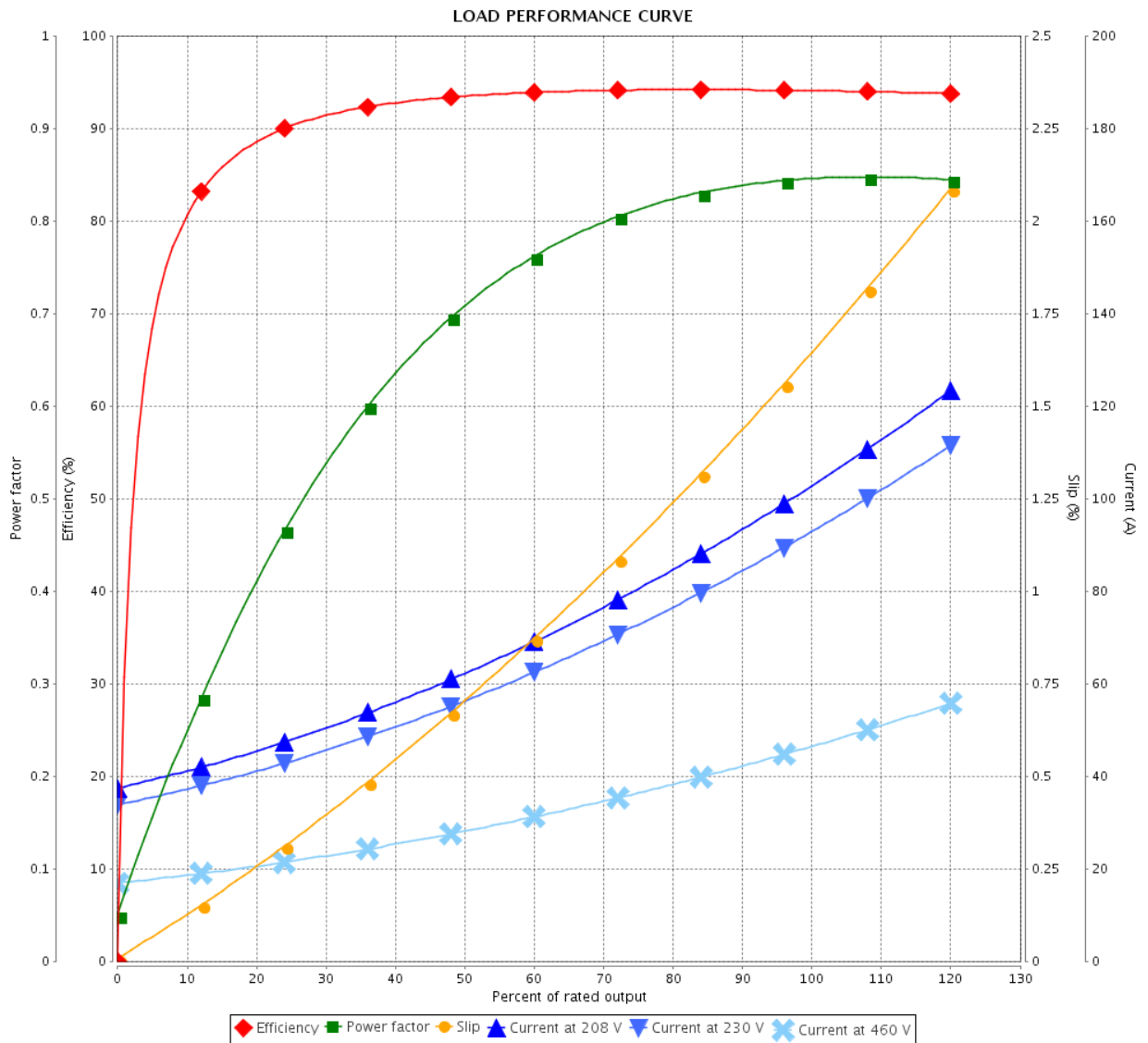


Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12447129

Catalog # : 04018ET3E324TC-W22



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

Rated current : 104-94.2/47.1 A
 LRC : 6.1
 Rated torque : 16.2 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 240 %
 Rated speed : 1770 rpm

Moment of inertia (J) : 0.3861 kgm²
 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 : 12447129

Catalog # : 04018ET3E324TC-W22

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

Rated current : 104-94.2/47.1 A
LRC : 6.1
Rated torque : 16.2 kgfm
Locked rotor torque : 229 %
Breakdown torque : 240 %
Rated speed : 1770 rpm

Moment of inertia (J) : 0.3861 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

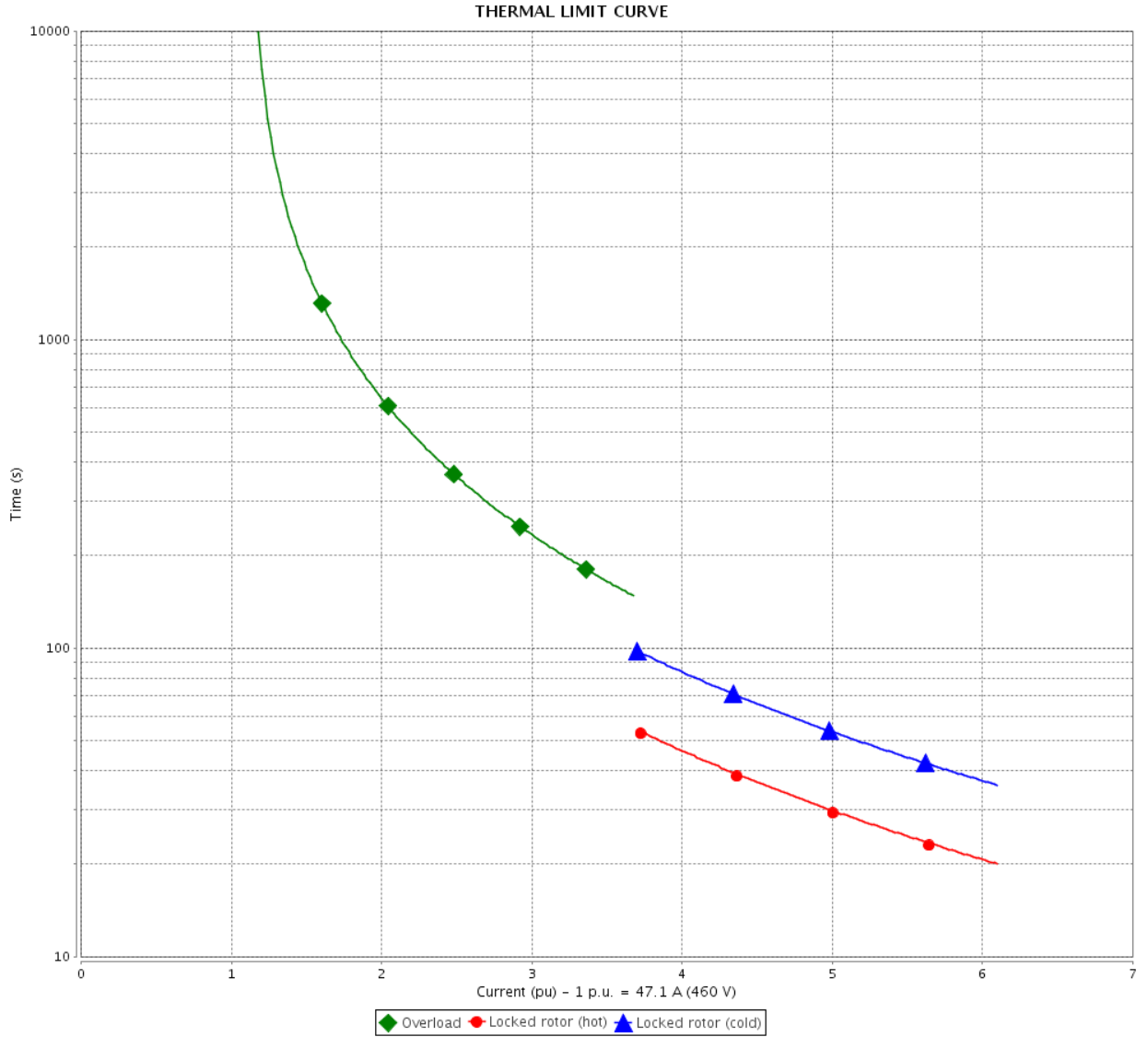
Rev.	Changes Summary	Performed	Checked	Date
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Checked by			Page	Revision
Date	14/02/2020		4 / 6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



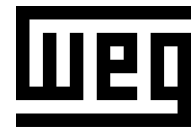
Customer : _____



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

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

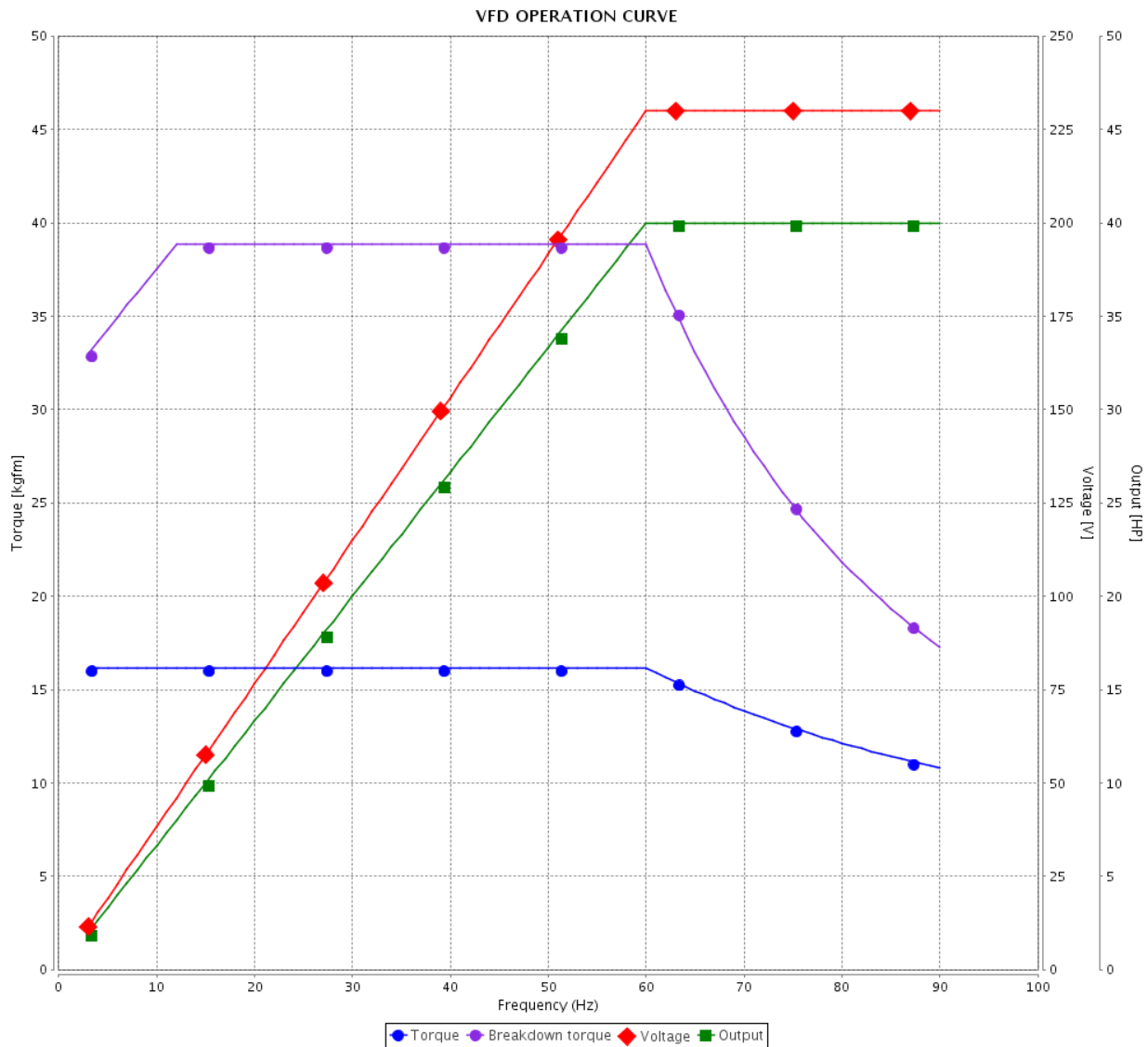


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12447129

Catalog # : 04018ET3E324TC-W22

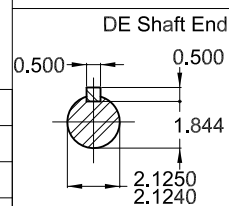
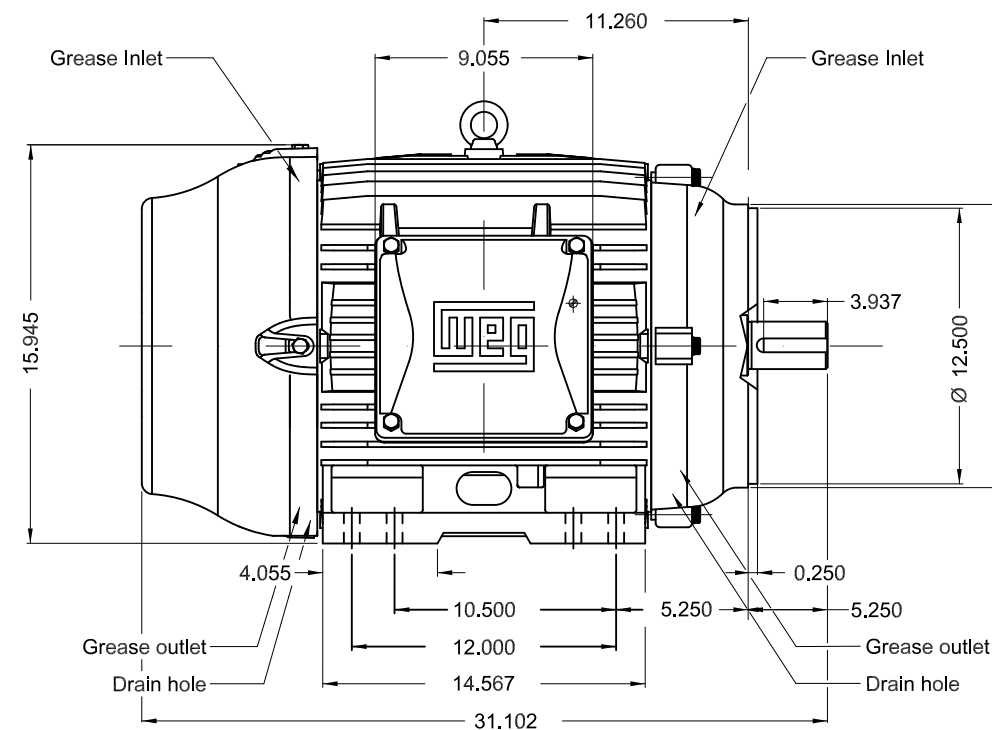
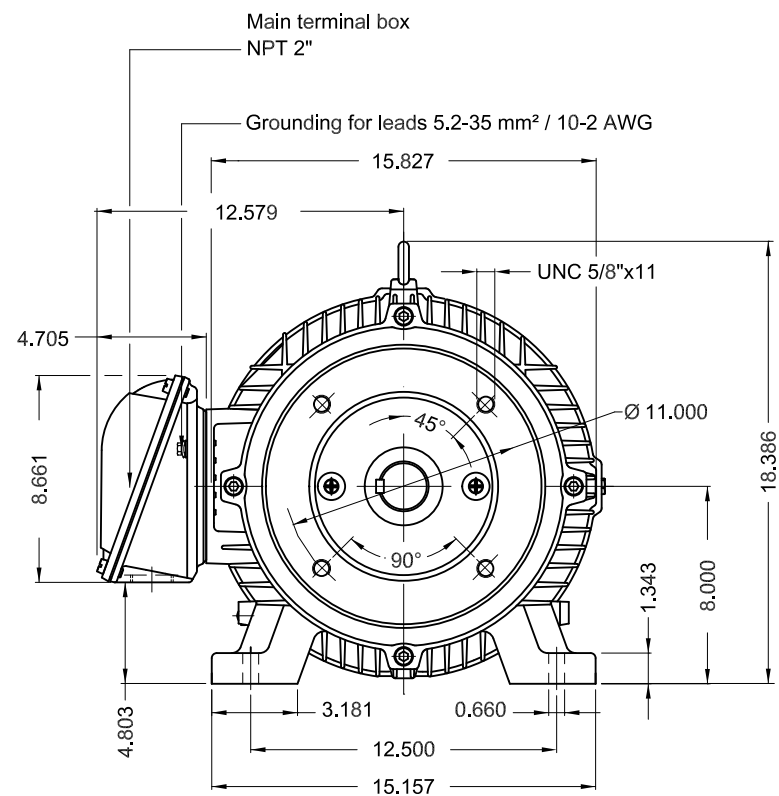


Performance : 208-230/460 V 60 Hz 4P

Rated current : 104-94.2/47.1 A
 LRC : 6.1
 Rated torque : 16.2 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 240 %
 Rated speed : 1770 rpm

Moment of inertia (J) : 0.3861 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

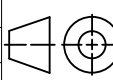
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				



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

40 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 324/6TC IP55 TEFC					
CHECKED							
RELEASED							
REL DT.							
	WMO	Jaragua do Sul	Product Engineering	SHEET		1 / 1	

PREVIEW
 WDD



Dimensions in inches

XME A3

MODEL 04018ET3E324TC-W22
MADE IN MEXICO
12447129



Inverter Duty Motor
Severe Duty



FOR SAFE AREA
MOD.TE1BFOXON

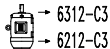
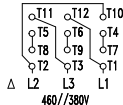
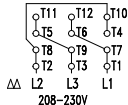


For 60Hz: Class I, Div 2, Gr. A, B, C and D - T3
Class I, Zone 2, IIC - T3

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 324/6TC	HP(kW) 40.0(30.0)	Hz 60
V 230/460	A 94.2/47.1	RPM 1770	DES B
NEMA NOM EFF 94.1 %	INS. CL. F Δ T 80 K	IP55	
ENCL TEFC	DUTY CONT.	AMB. 40°C	
CODE G	PF 0.85	SF 1.25	SFA 118/58.9
USABLE @208V 104 A	SF 1.15	SFA 120	
40HP 30kW 50Hz 380V 57.4A 1460RPM SF1.00 EFF 92.4% (IE2)	ALT 1000 m.a.s.l.	591 Lbs	



MOBIL POLYREX EM
21 g 20000 h