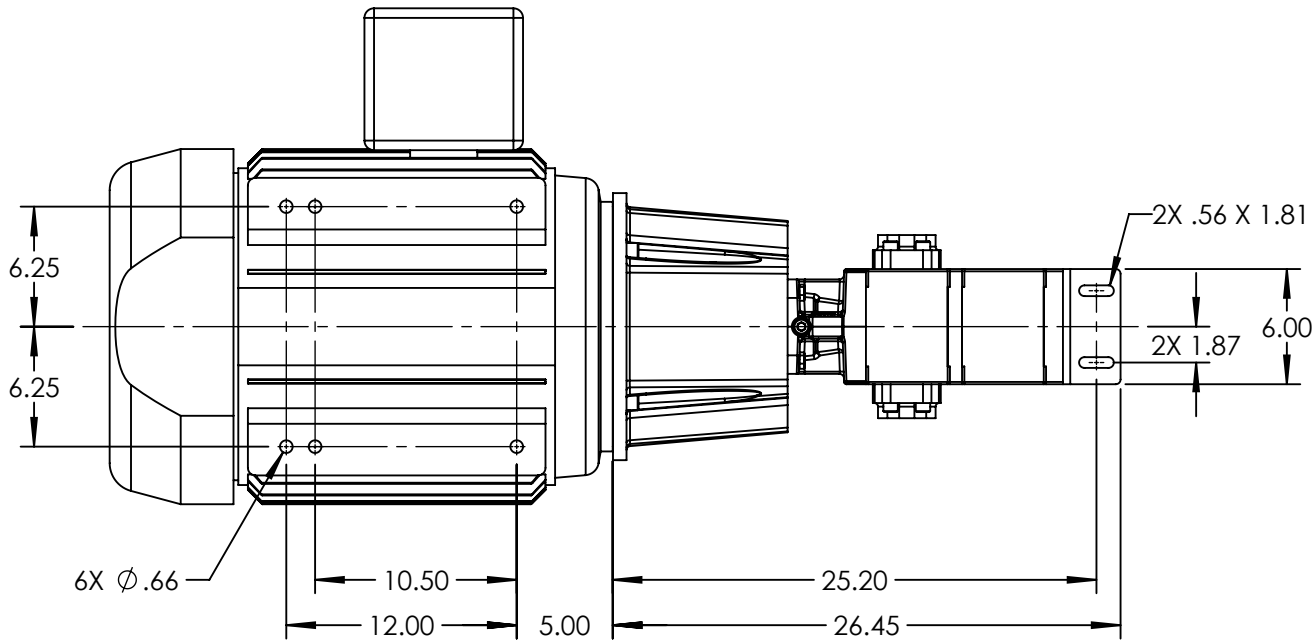
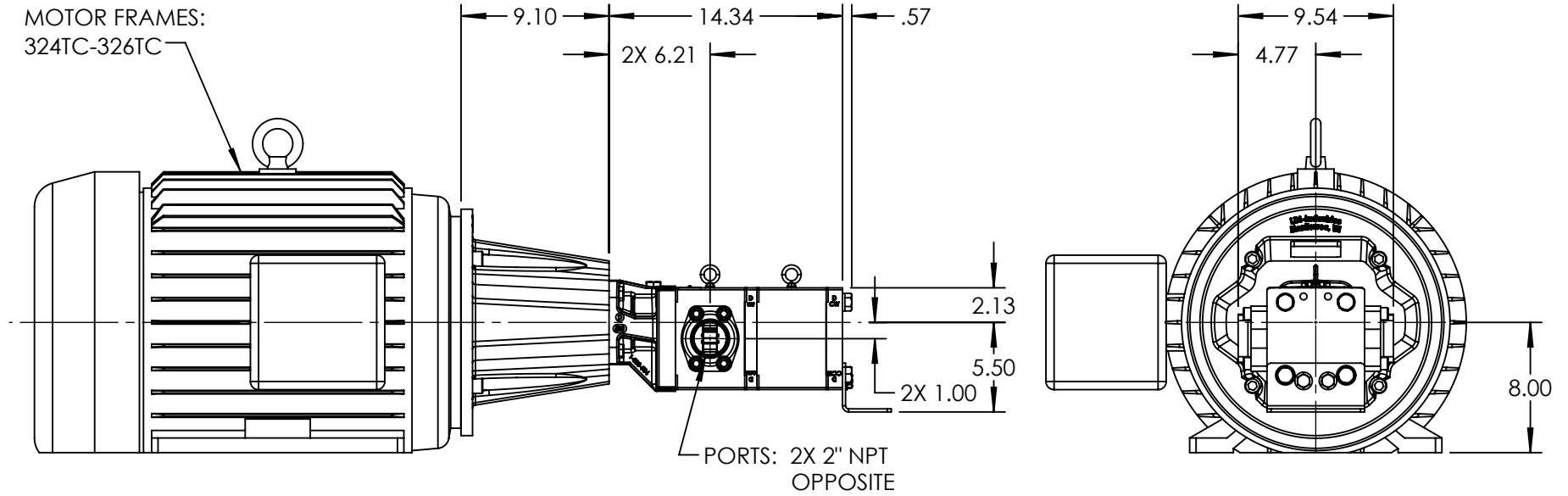


MOTOR FRAMES:
324TC-326TC



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

NOTES:

1. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

STATE	Released	07/15/2021
DRAWN	bmanernach	7/1/2021
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. SHEET 1 OF 1
GPV-1018-032-U

REV. A.0
07/15/2021

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: W22 NEMA Premium Efficiency Three-Phase		Product code : 11438075			
				Catalog # : 05018ET3E326TC-W22			
Frame	:	: 324/6TC		Locked rotor time	:	: 27s (cold) 15s (hot)	
Output	:	: 50 HP (37 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	:	: 131-118/59.2 A		Protection degree	:	: IP55	
L. R. Amperes	:	: 812-734/367 A		Cooling method	:	: IC411 - TEFC	
LRC	:	: 6.2x(Code G)		Mounting	:	: F-1	
No load current	:	: 40.5-47.0/23.5 A		Rotation ¹	:	: Both (CW and CCW)	
Rated speed	:	: 1775 rpm		Noise level ²	:	: 66.0 dB(A)	
Slip	:	: 1.39 %		Starting method	:	: Direct On Line	
Rated torque	:	: 148 ft.lb		Approx. weight ³	:	: 610 lb	
Locked rotor torque	:	: 229 %					
Breakdown torque	:	: 270 %					
Insulation class	:	: F					
Service factor	:	: 1.25					
Moment of inertia (J)	:	: 9.16 sq.ft.lb					
Design	:	: B					
Output	50%	75%	100%	Foundation loads			
Efficiency (%)	93.0	94.1	94.5	Max. traction		: 1477 lb	
Power Factor	0.66	0.77	0.83	Max. compression		: 2088 lb	
		<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	27/02/2020				1 / 6		

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

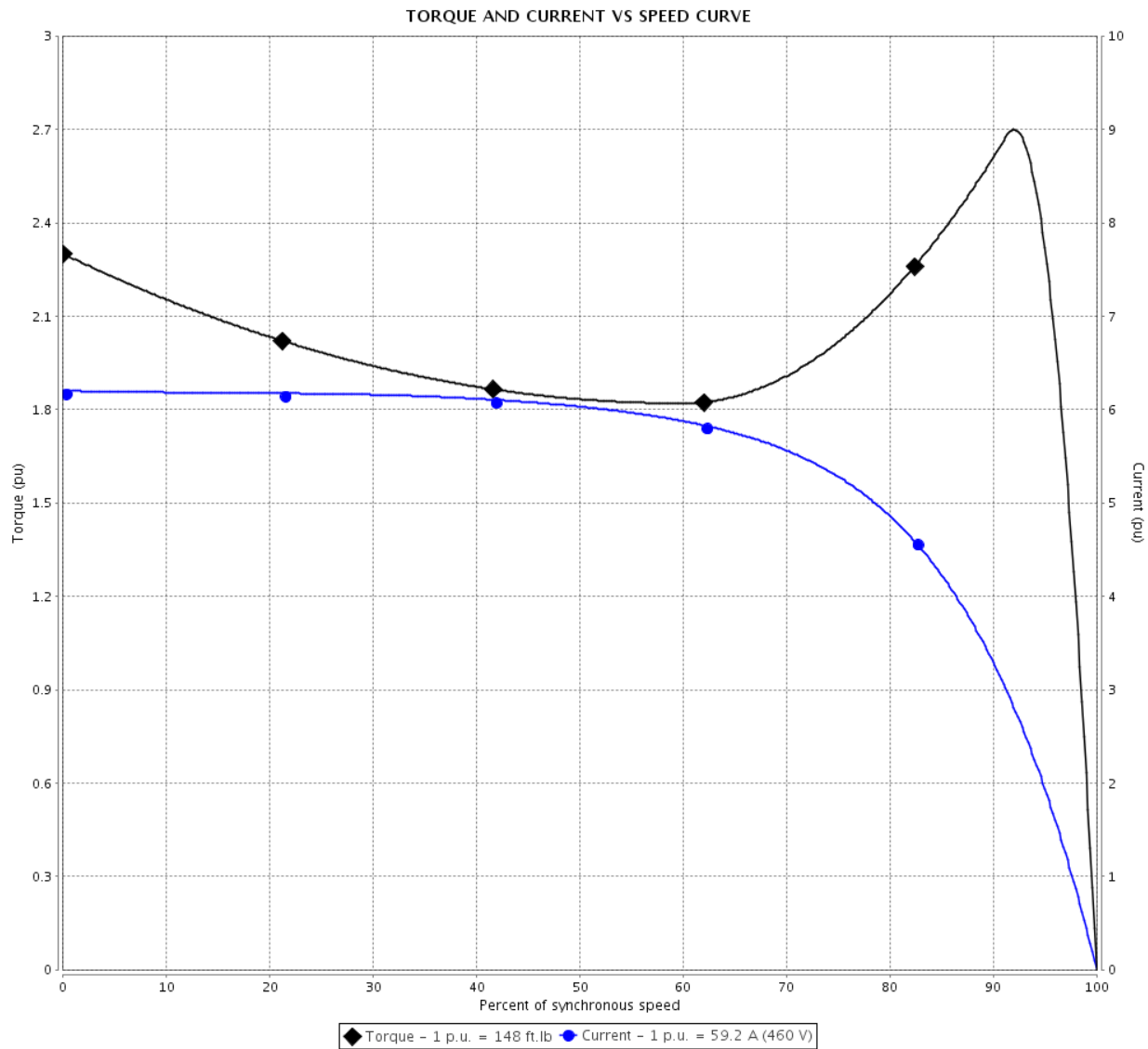


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11438075

Catalog # : 05018ET3E326TC-W22



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

Rated current	: 131-118/59.2 A	Moment of inertia (J)	: 9.16 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 148 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1775 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 6	Revision
Checked by				
Date	27/02/2020			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

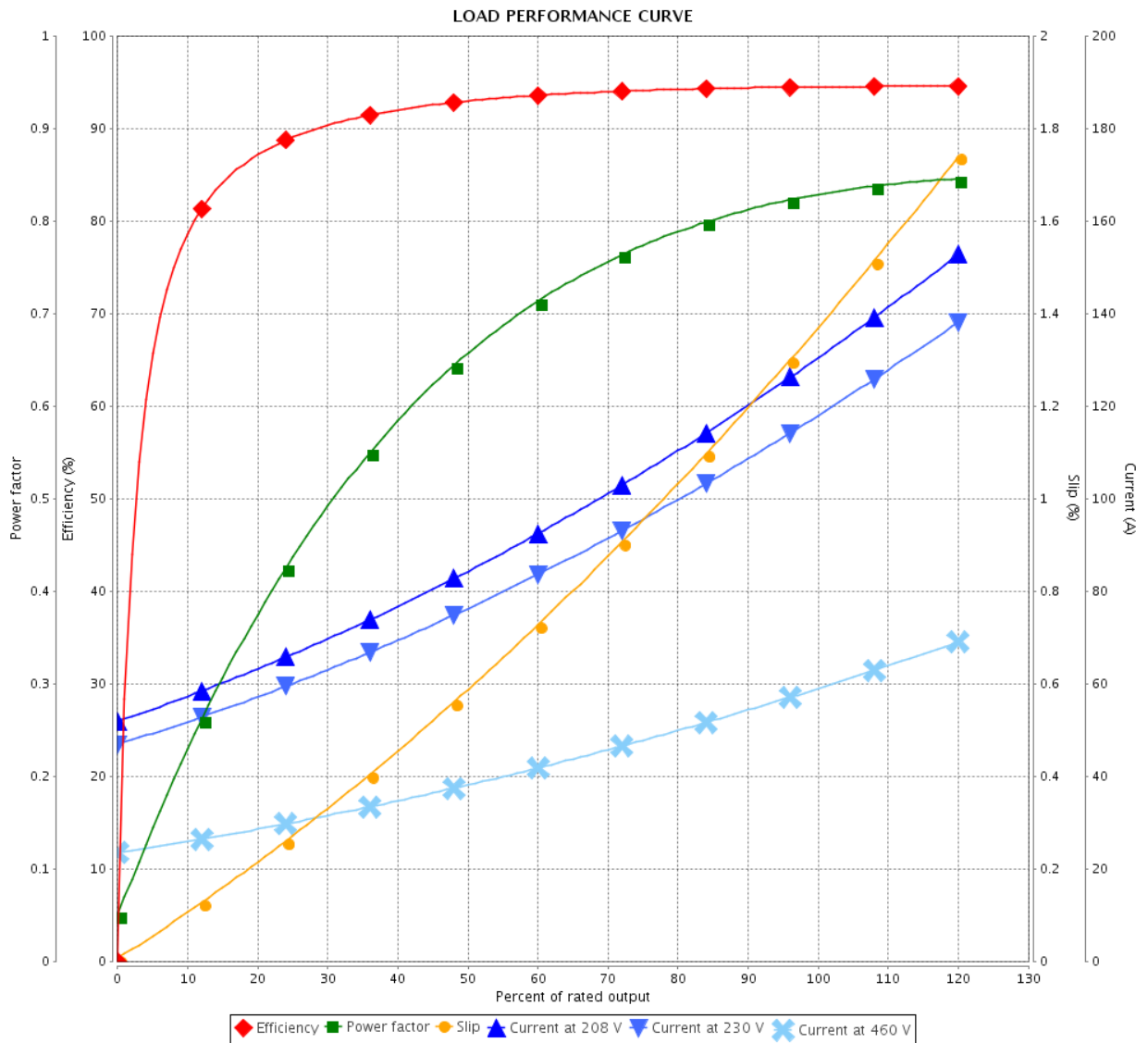


Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11438075

Catalog # : 05018ET3E326TC-W22



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

Rated current : 131-118/59.2 A
 LRC : 6.2
 Rated torque : 148 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 270 %
 Rated speed : 1775 rpm

Moment of inertia (J) : 9.16 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 : 11438075

Catalog # : 05018ET3E326TC-W22

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

Rated current : 131-118/59.2 A	Moment of inertia (J) : 9.16 sq.ft.lb
LRC : 6.2	Duty cycle : Cont.(S1)
Rated torque : 148 ft.lb	Insulation class : F
Locked rotor torque : 229 %	Service factor : 1.25
Breakdown torque : 270 %	Temperature rise : 80 K
Rated speed : 1775 rpm	Design : B

Heating constant

Cooling constant

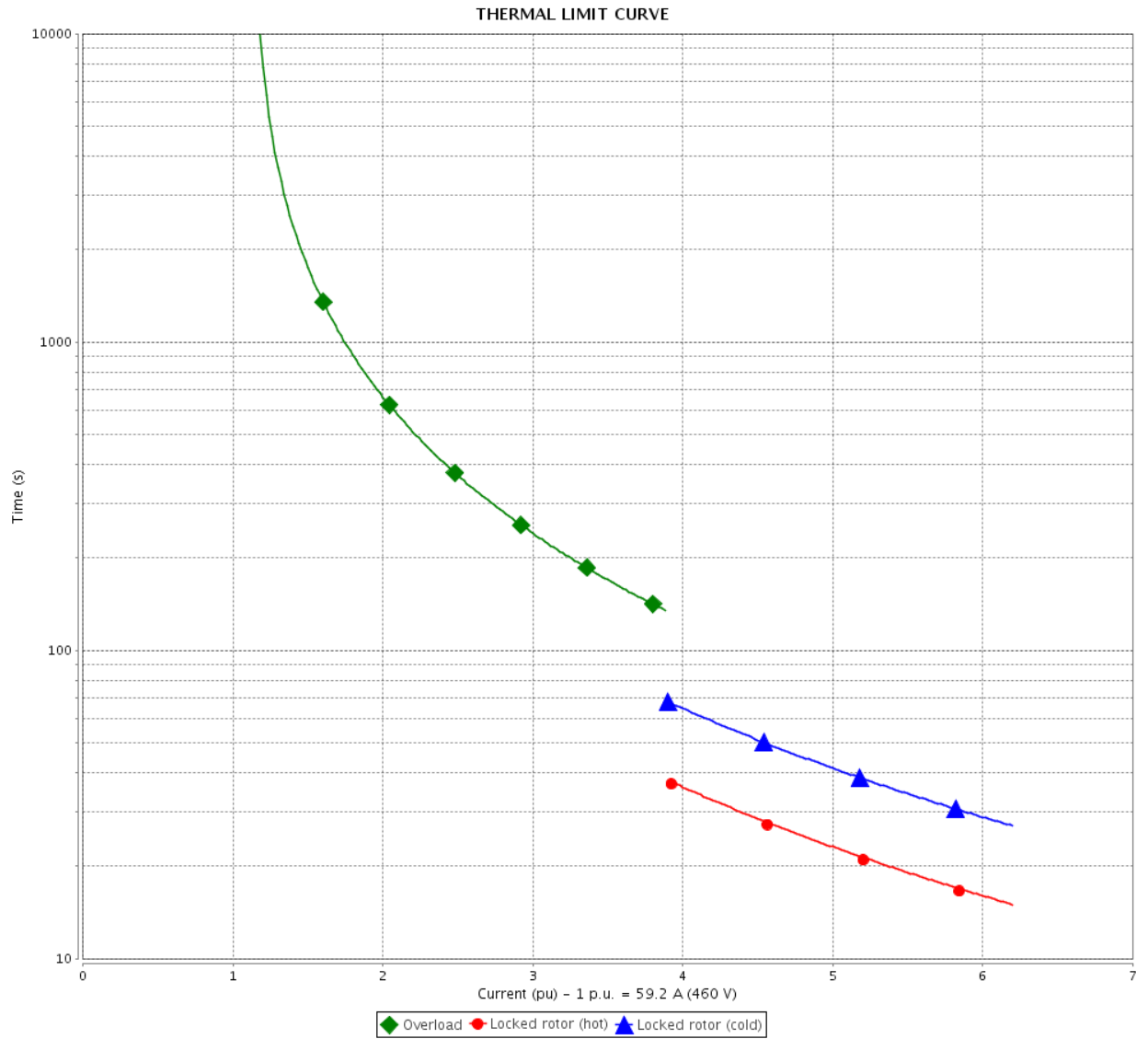
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

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

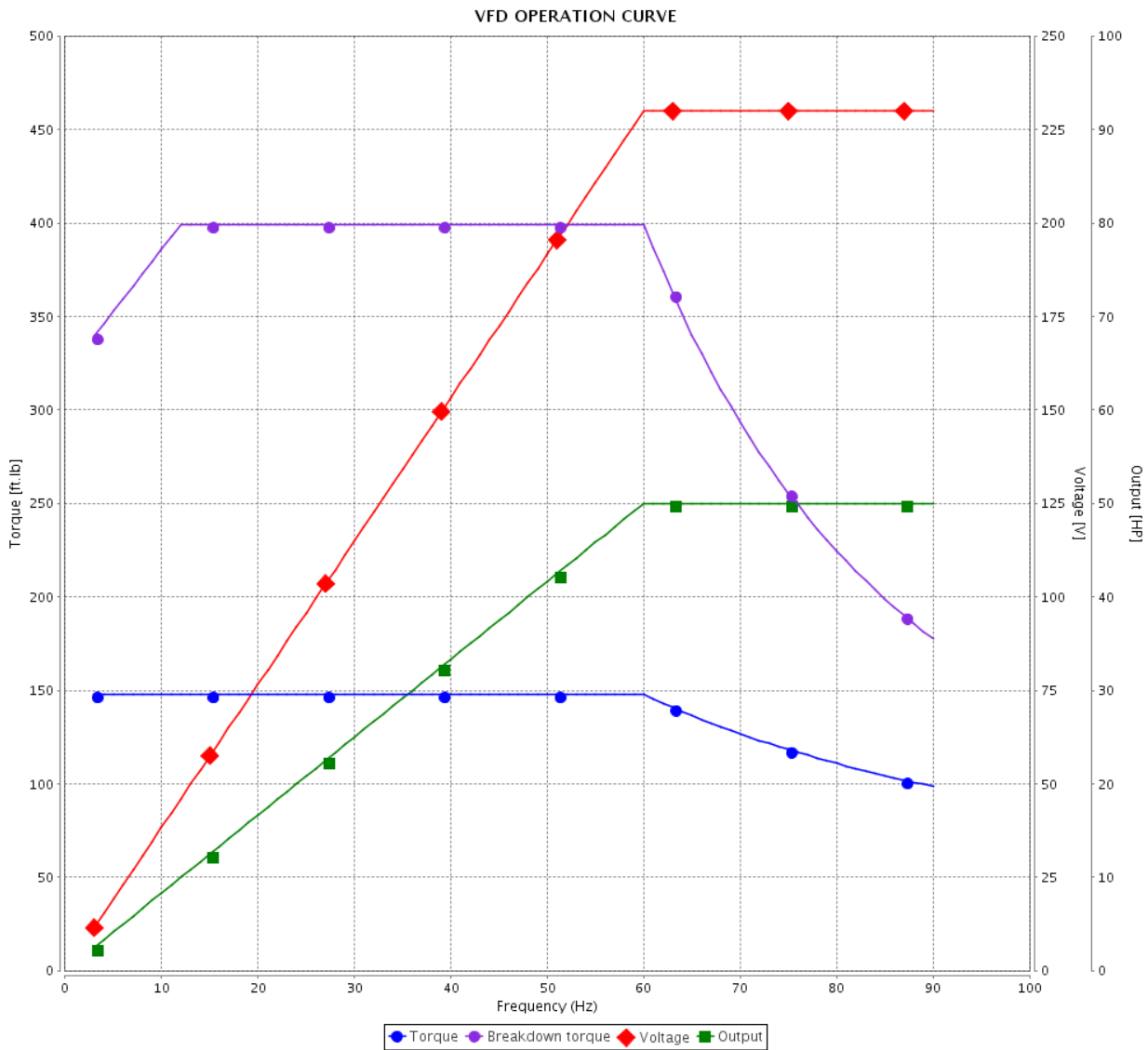


Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11438075

Catalog # : 05018ET3E326TC-W22

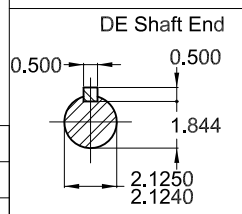
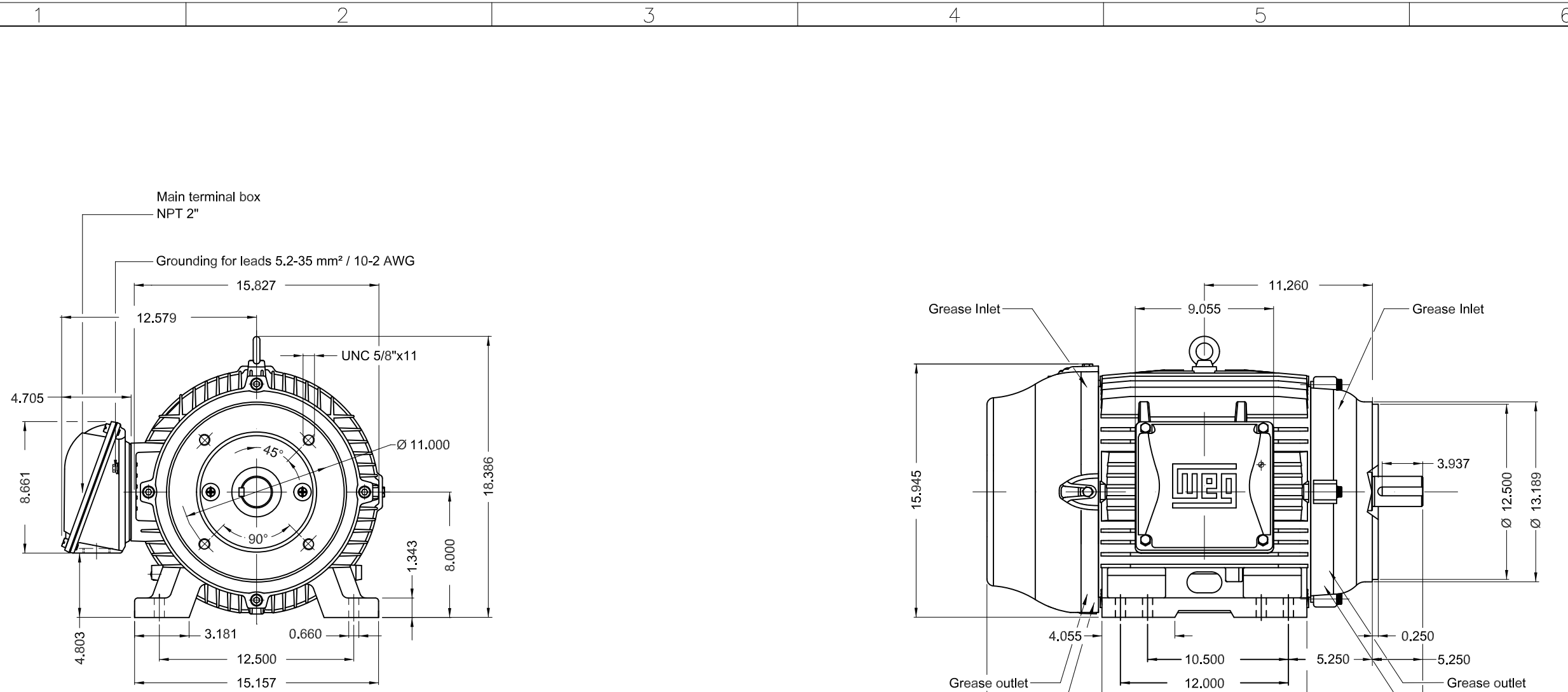


Performance : 208-230/460 V 60 Hz 4P

Rated current : 131-118/59.2 A
 LRC : 6.2
 Rated torque : 148 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 270 %
 Rated speed : 1775 rpm

Moment of inertia (J) : 9.16 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 6 / 6	Revision
Checked by				
Date	27/02/2020			



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

50 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

MODEL 05018ET3E326TC-W22
MADE IN MEXICO
11438075



Inverter Duty Motor
Severe Duty

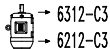
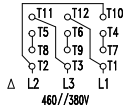
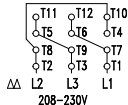


FOR SAFE AREA
MOD.TE1BFOXON



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) 50.0(37.0)	Hz 60
V 230/460	A 118/59.2	RPM 1775	DES B
NEMA NOM EFF 94.5 %	INS. CL. F Δ T 80 K	IP55	
ENCL TEFC	DUTY CONT.	AMB. 40°C	
CODE G	PF 0.83	SF 1.25	SFA 148/74.0
USABLE @208V	131 A	SF 1.15	SFA 151
50HP 37kW 50Hz 380V 71.6A 1460RPM SF1.00 EFF 92.4% (IE1)	ALT 1000 m.a.s.l.		



MOBIL POLYREX EM
21 g 20000 h

ALT 1000 m.a.s.l. 611 Lbs