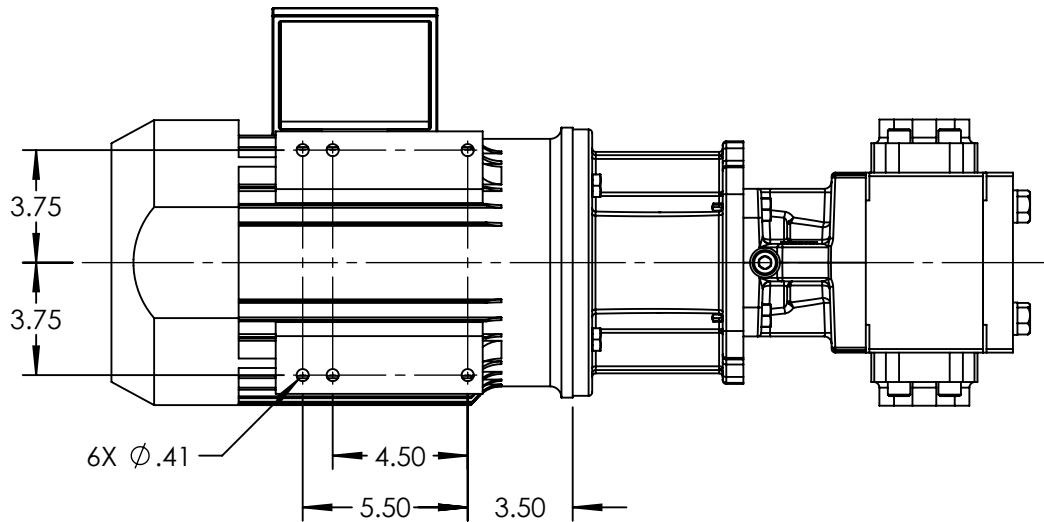
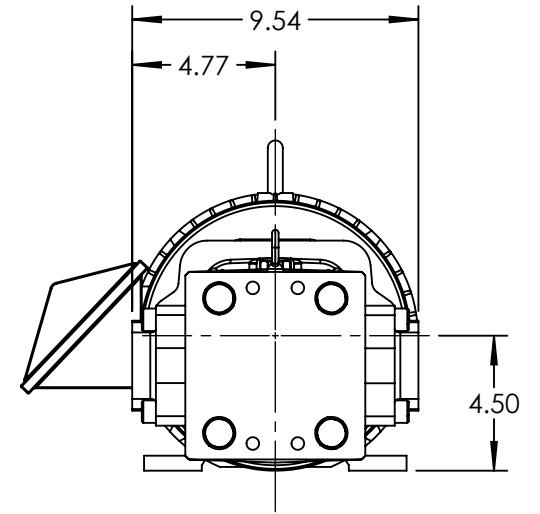
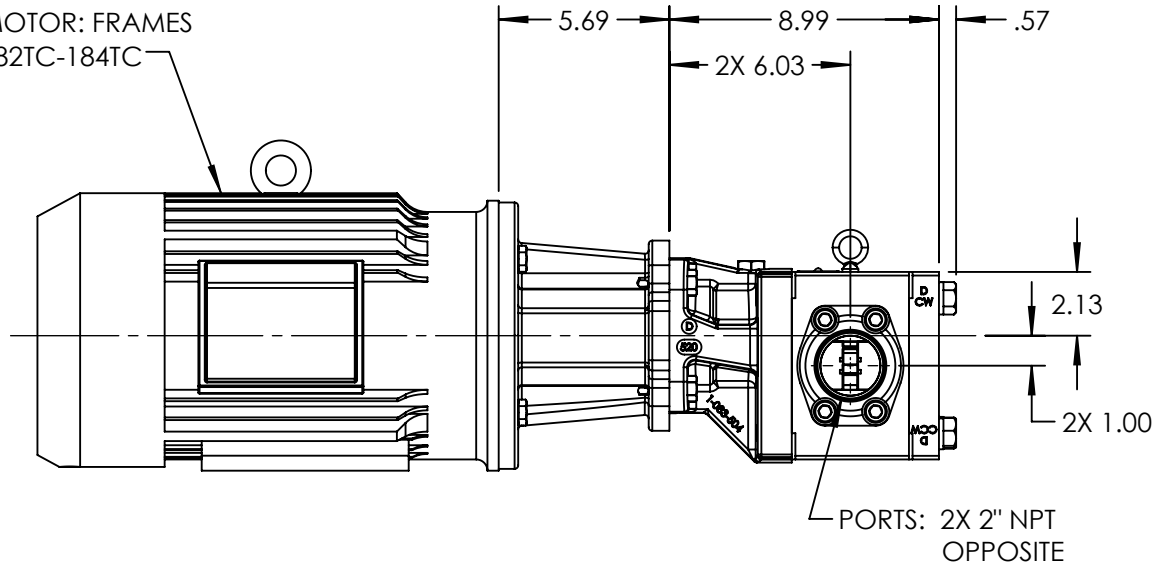


MOTOR: FRAMES
182TC-184TC



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

NOTES:

1. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

STATE	Released	07/16/2021
DRAWN	bmanternach	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. GPV-1005-002-U
SHEET 1 OF 1

REV. A.0
07/16/2021



No.:

Date: 09-DEC-2015

Customer : Diverse Energy Systems, LLC

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 NEMA Premium - Ball Bearings

Catalog Number : 00518ET3E184TC-W22

List Price : \$ Contact Us!

Notes:

Performed by:

Checked:



No.:

Date: 09-DEC-2015

DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer : Diverse Energy Systems, LLC
 Product line : W22 NEMA Premium - Ball Bearings

Frame : 182/4T
 Output : 5 HP
 Frequency : 60 Hz
 Poles : 4
 Full load speed : 1755
 Slip : 2.50 %
 Voltage : 208-230/460 V
 Rated current : 14.3-12.9/6.45 A
 Locked rotor current : 92.9/46.4 A
 Locked rotor current (I_L/I_n) : 7.2
 No-load current : 6.40/3.20 A
 Full load torque : 14.8 lb.ft
 Locked rotor torque : 230 %
 Breakdown torque : 320 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 15 s (hot)
 Service factor : 1.25
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000
 Degree of Protection : IP55
 Approximate weight : 95 lb
 Moment of inertia : 0.40033 sq.ft.lb
 Noise level : 56 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6207 ZZ	6206 ZZ	100%	0.80	89.5
Regreasing interval	---	---	75%	0.74	89.5
Grease amount	---	---	50%	0.62	88.5

Notes:

Performed by

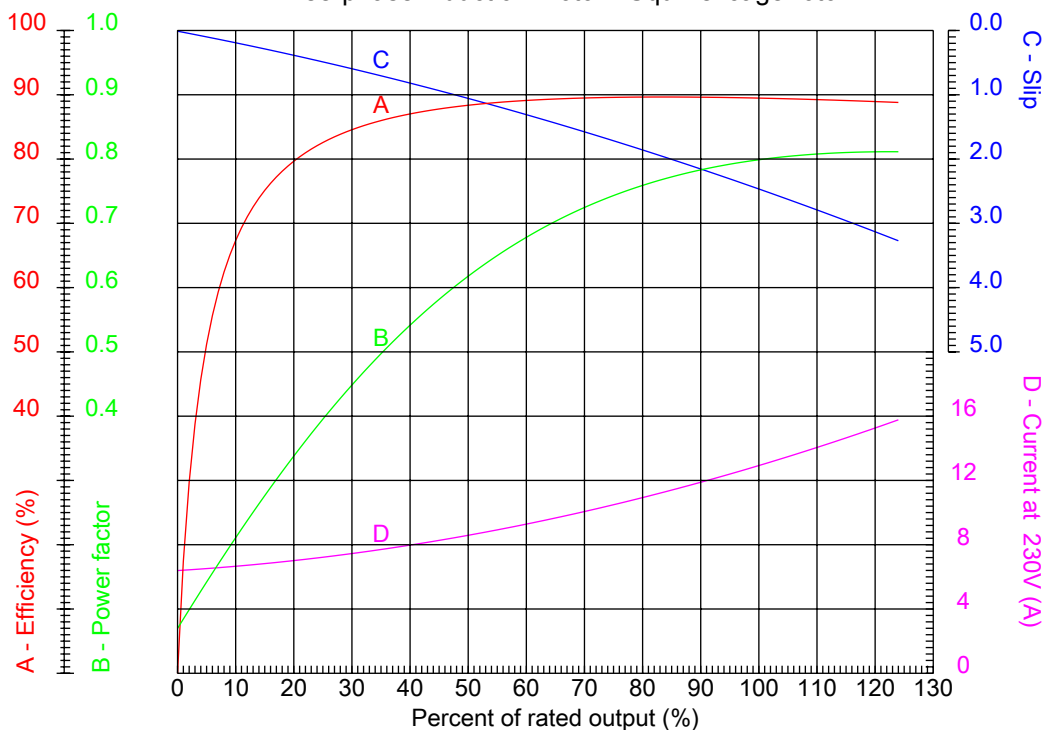
Checked



No.:

Date: 09-DEC-2015

PERFORMANCE CURVES RELATED TO RATED OUTPUT Three-phase induction motor - Squirrel cage rotor



Customer : Diverse Energy Systems, LLC
Product line : W22 NEMA Premium - Ball Bearings

Frame : 182/4T	Locked rotor current (I _l /I _n) : 7.2
Output : 5 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.25
Full load speed : 1755	Design : B
Voltage : 208-230/460 V	Locked rotor torque : 230 %
Rated current : 14.3-12.9/6.45 A	Breakdown torque : 320 %
Insulation class : F	

Notes:

Performed by

Checked

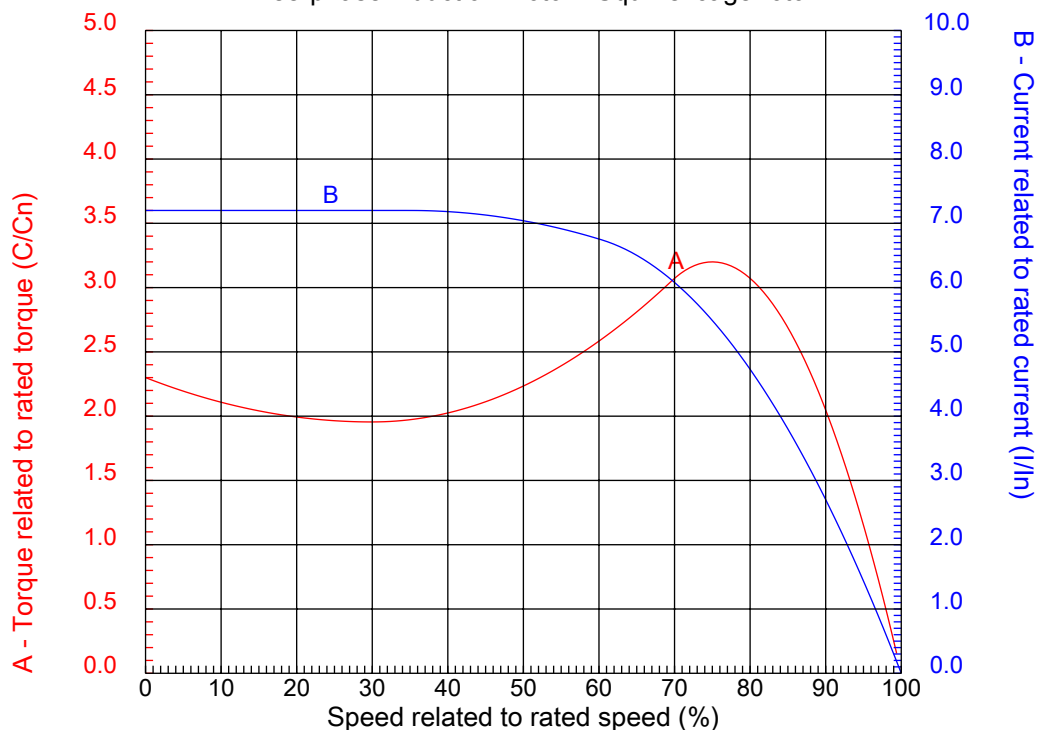


No.:

Date: 09-DEC-2015

CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer : Diverse Energy Systems, LLC
Product line : W22 NEMA Premium - Ball Bearings

Frame	: 182/4T	Locked rotor current (I _l /I _n)	: 7.2
Output	: 5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1755	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 230 %
Rated current	: 14.3-12.9/6.45 A	Breakdown torque	: 320 %
Insulation class	: F		

Notes:

Performed by

Checked

1 2 3 4 5 6 7 8

A

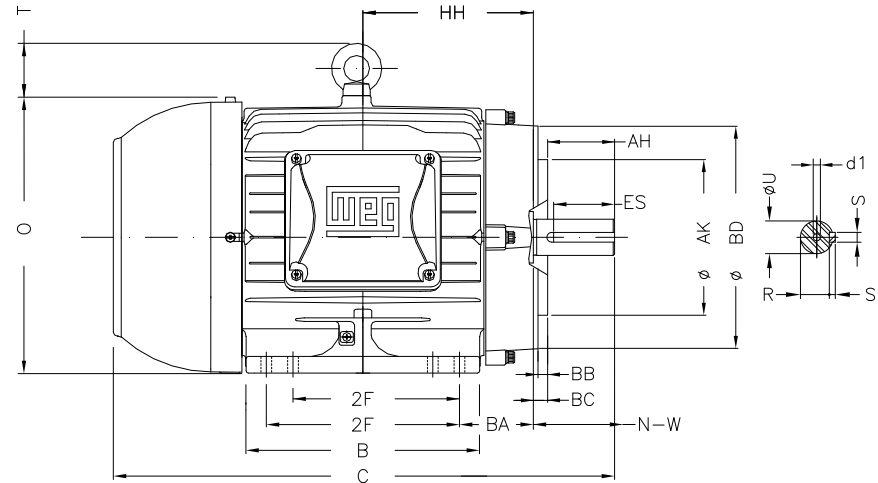
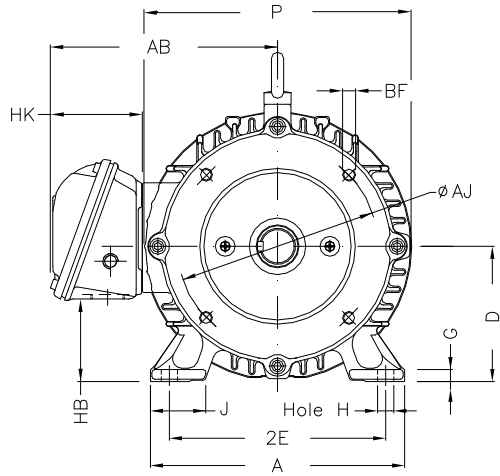
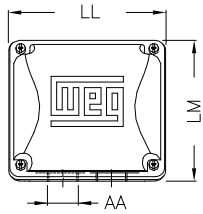
B

C

D

E

F



Notes:

Performed by:

Checked:

Customer: Diverse Energy Systems, LLC

W22 NEMA Premium - Ball Bearings

Three-phase induction motor
Frame 182/4T - IP55

09-DEC-2015



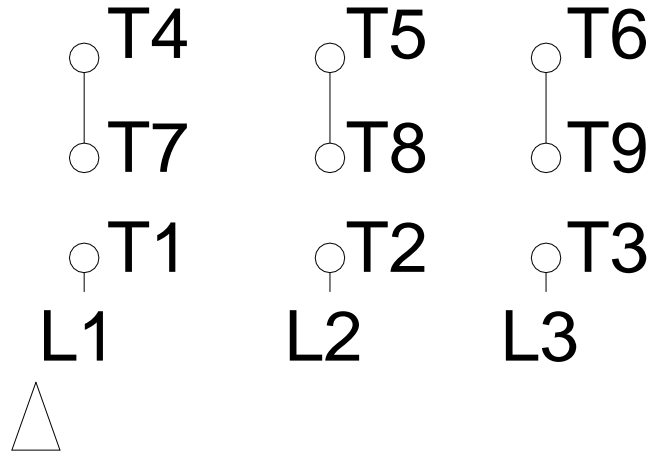
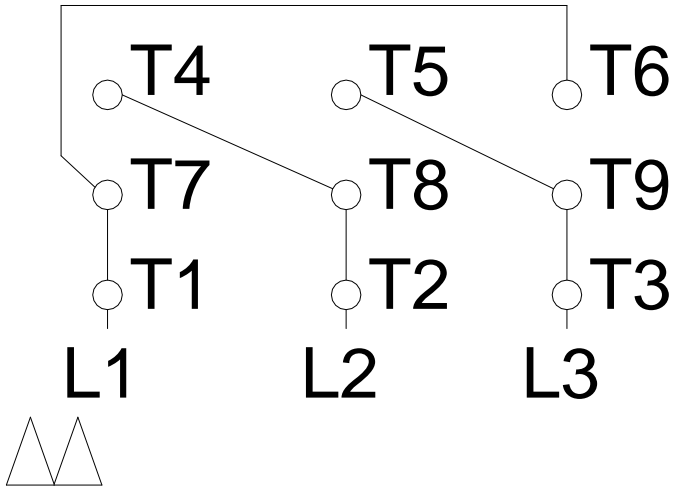
2E	J	A	P	AB
7.500	1.614	8.661	8.740	7.565
2F	B	BA	FBA	U
4.500/5.500	6.969	2.750	5.057	1.125
N-W	ES	S	R	depth
2.750	1.969	0.250	0.984	0.250
D	G	HB	O	T
4.500	0.394	2.236	9.343	1.772
HF	HH	HK	H	C
4.500	5.500	3.150	0.406	15.860
FC	LL	LM	AA	d1
18.307	5.512	5.236	NPT 1"	A 4
Flange	AJ	AK	BD	BF
FC-184	7.250	8.500	8.875	UNC 1/2"x13
BB	BC	AH		
0.250	0.125	2.625		

1 2 3 4 5 6 7 8

LOW VOLTAGE

HIGH VOLTAGE

A
B
C
D
E
F



Notes:

Performed by:

Checked:

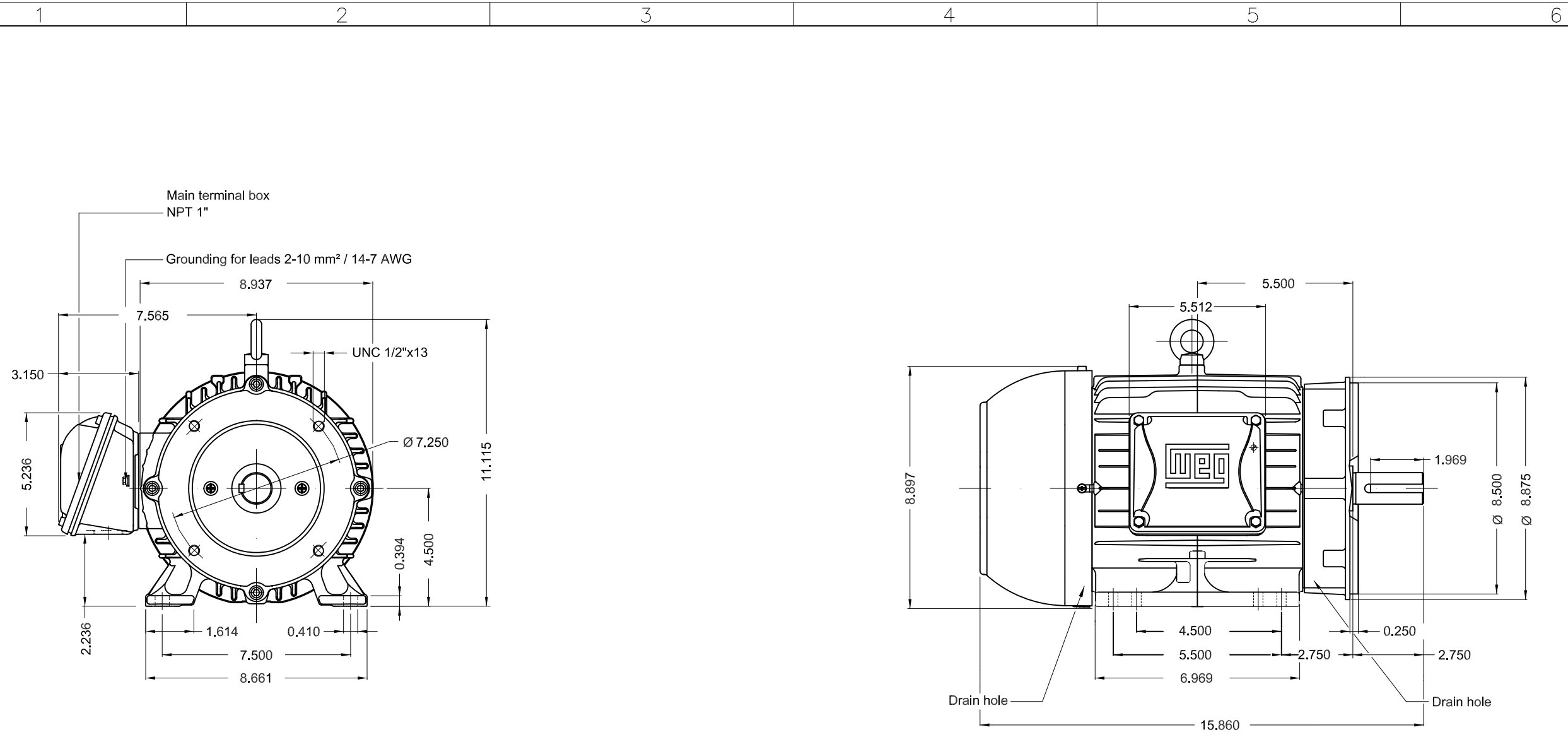
Customer: Diverse Energy Systems, LLC

W22 NEMA Premium - Ball Bearings

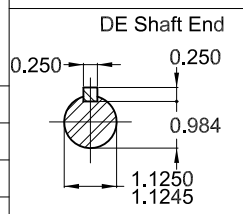
Three-phase induction motor
Frame 182/4T - IP55

09-DEC-2015





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



3 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											
CHECKED			FRAME 182/4TC IP55 TEFC		WDD											
RELEASED					SHEET		1 / 1									
REL DT	WMO		Jaragua do Sul		Product Engineering											

Dimensions in inches XME A3

**W22**

CC029A

® Inverter Duty Motor
Severe Duty

12445724

MADE IN MEXICO MODEL 00318ET3E182TC-W22

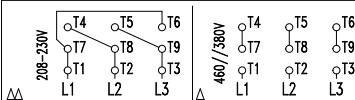
PH 3 | FR 182/4TC | HP(kw) 3.0(2.2) | Hz 60 | SF 1.25 | PF 0.79

V 230/460 | A 7.82/3.91 | RPM 1760 | INS. CL. F Δ T 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



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



FOR SAFE AREA
 MOD.TE1BFOXON