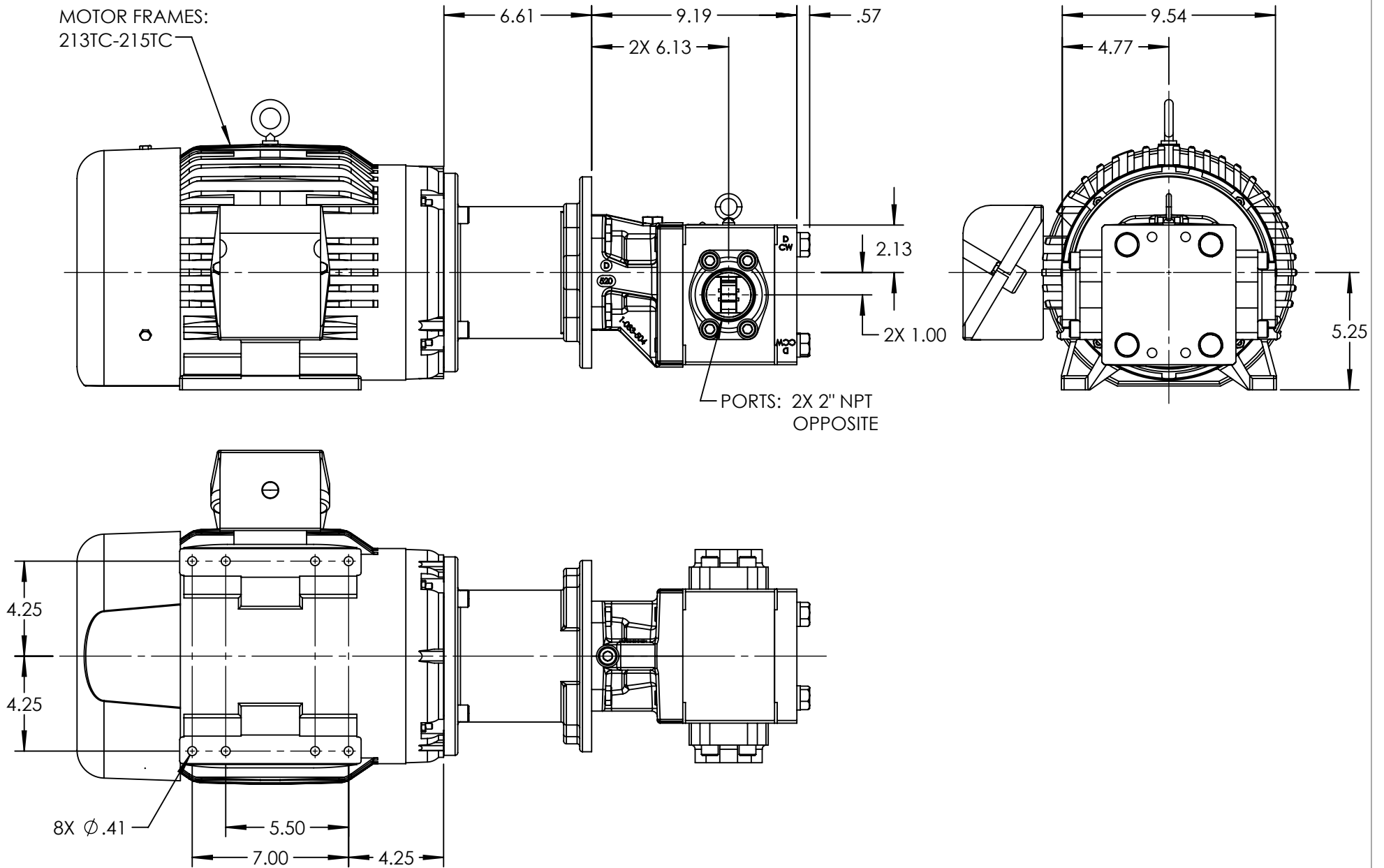


MOTOR FRAMES:
213TC-215TC



PORTS: 2X 2" NPT
OPPOSITE

NOTES:

1. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

STANDARD MODELS: GB-41007-G00-M, GB-41007-G10-M

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-1007-002-U
SHEET 1 OF 1

REV. A.0
07/16/2021



No.:

Date: 04-DEC-2015

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 NEMA Premium - Ball Bearings

Catalog Number : 01018ET3E215TC-W22

List Price : \$ Contact Us!

Notes:

Performed by:

Checked:



No.:

Date: 04-DEC-2015

DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame : 213/5T
Output : 10 HP
Frequency : 60 Hz
Poles : 4
Full load speed : 1765
Slip : 1.94 %
Voltage : 208-230/460 V
Rated current : 27.4-24.8/12.4 A
Locked rotor current : 159/79.4 A
Locked rotor current (I_L/I_n) : 6.4
No-load current : 11.3/5.65 A
Full load torque : 29.4 lb.ft
Locked rotor torque : 200 %
Breakdown torque : 300 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 17 s (hot)
Service factor : 1.25
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP55
Approximate weight : 172 lb
Moment of inertia : 1.5104 sq.ft.lb
Noise level : 58 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6308 ZZ	6207 ZZ	100%	0.83	91.7
Regreasing interval	---	---	75%	0.77	91.7
Grease amount	---	---	50%	0.66	91.0

Notes:

Performed by

Checked

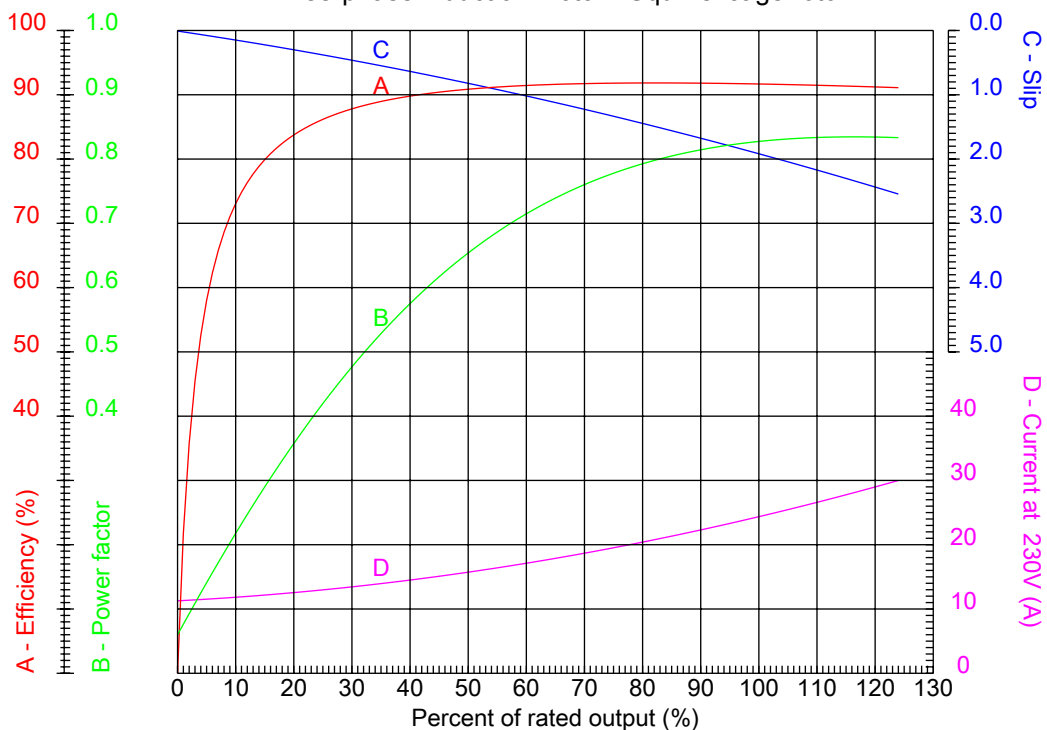


No.:

Date: 04-DEC-2015

PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame	: 213/5T	Locked rotor current (I _l /I _n)	: 6.4
Output	: 10 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1765	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 200 %
Rated current	: 27.4-24.8/12.4 A	Breakdown torque	: 300 %
Insulation class	: F		

Notes:

Performed by

Checked

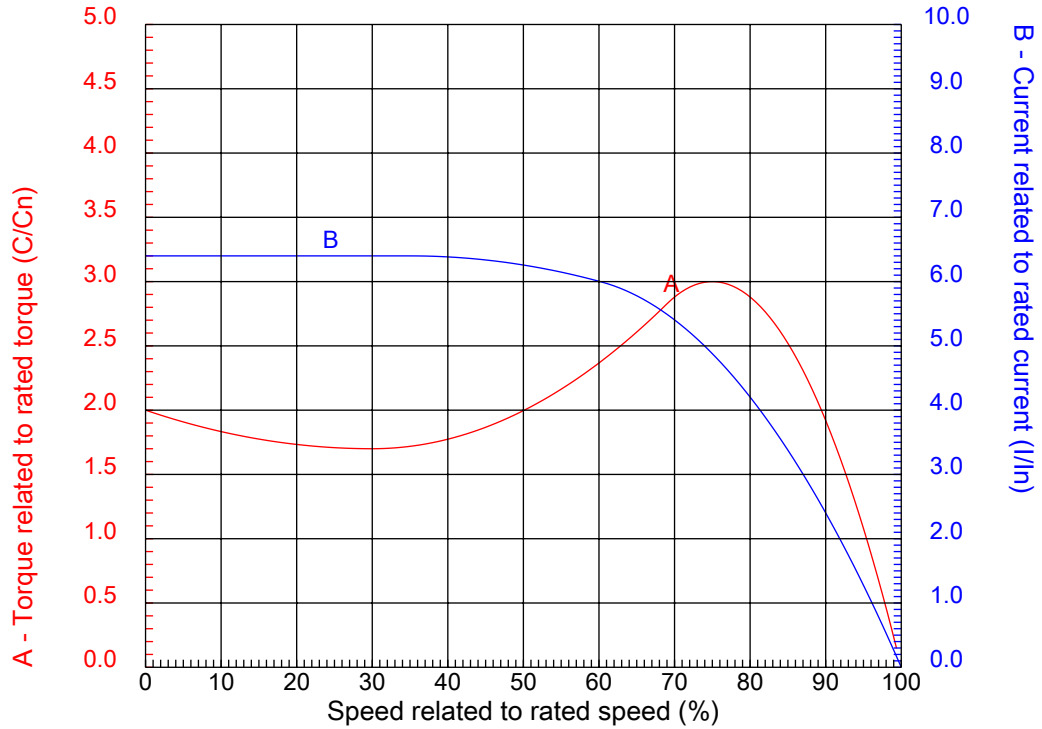


No.:

Date: 04-DEC-2015

CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame	: 213/5T	Locked rotor current (I _l /I _n)	: 6.4
Output	: 10 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1765	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 200 %
Rated current	: 27.4-24.8/12.4 A	Breakdown torque	: 300 %
Insulation class	: F		

Notes:

Performed by

Checked

1 2 3 4 5 6 7 8

A

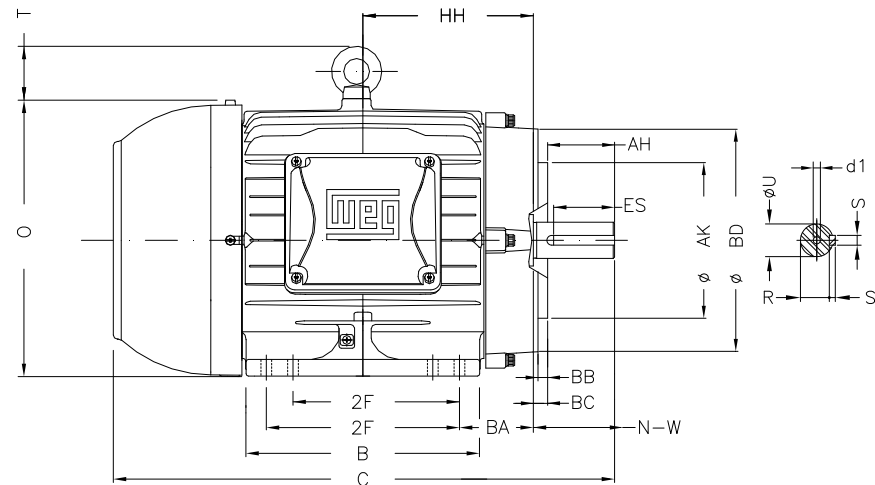
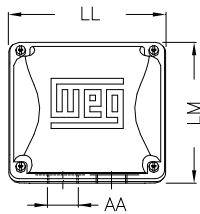
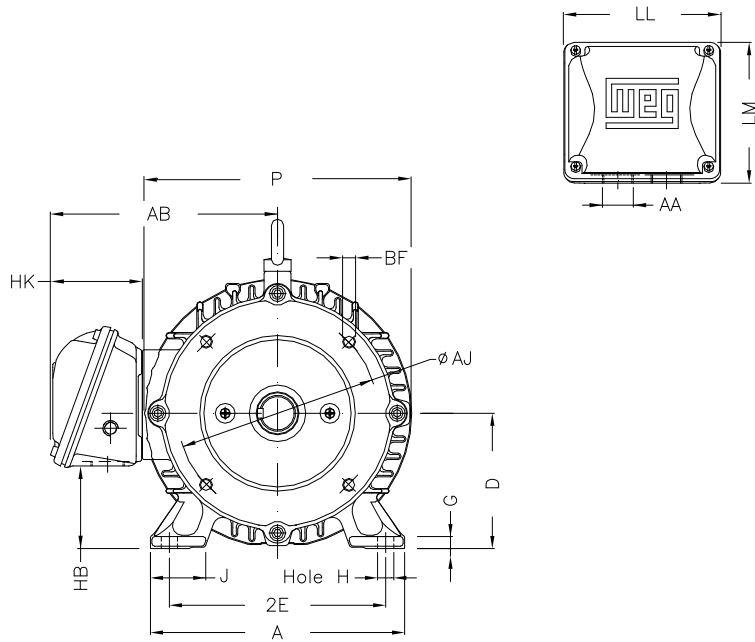
B

C

D

E

F



Notes:

Performed by:

Checked:

Customer:

W22 NEMA Premium - Ball Bearings

Three-phase induction motor
Frame 213/5T - IP55

04-DEC-2015



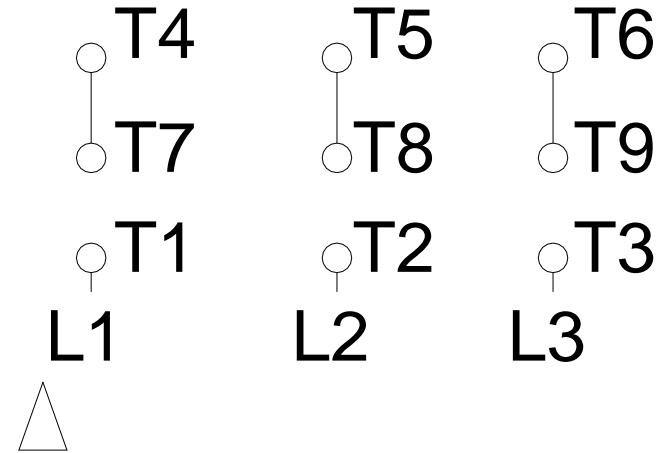
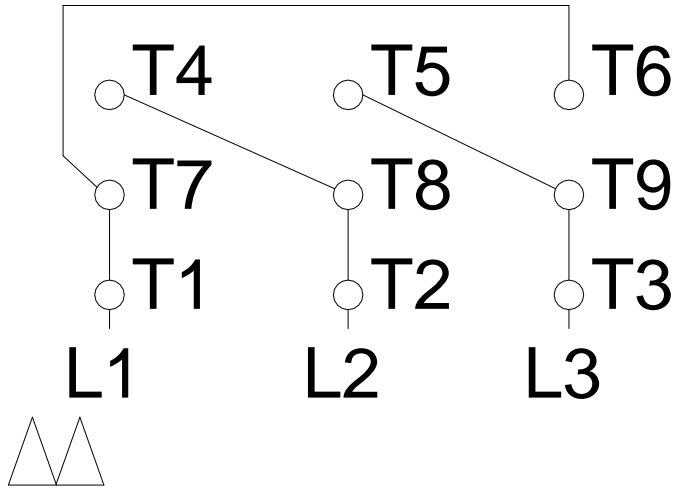
2E	J	A	P	AB
8.500	1.772	9.764	10.669	8.583
2F	K	B	BA	FBA
5.500/7.000	2.165	8.858	3.500	5.921
U	N-W	ES	S	R
1.375	3.375	2.480	0.313	1.203
depth	D	G	HB	O
0.313	5.250	0.669	2.985	10.841
T	HF	HH	HK	H
1.772	5.250	7.000	3.150	0.406
C	FC	LL	LM	AA
19.517	22.546	5.512	5.236	NPT 1"
d1	Flange	AJ	AK	BD
A 4	FC-184	7.250	8.500	8.875
BF	BB	BC	AH	
UNC 1/2"x13	0.250	0.250	3.125	

1 2 3 4 5 6 7 8

LOW VOLTAGE

HIGH VOLTAGE

A
B
C
D
E
F



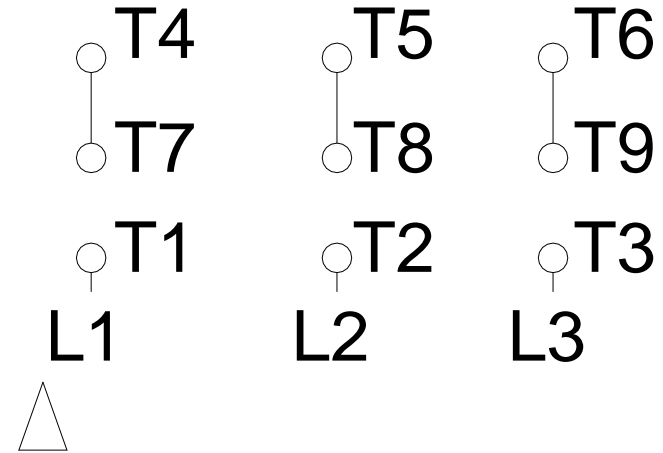
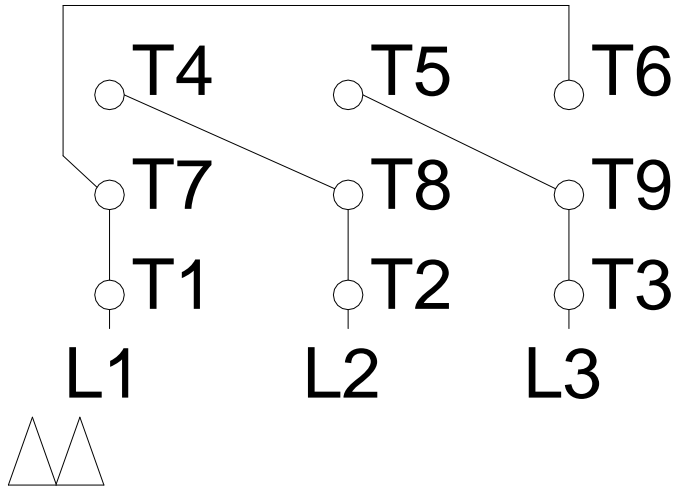
Notes:		
Performed by:		
Checked:		
Customer:		
W22 NEMA Premium - Ball Bearings		
Three-phase induction motor Frame 213/5T - IP55	04-DEC-2015	

1 2 3 4 5 6 7 8

LOW VOLTAGE

HIGH VOLTAGE

A
B
C
D
E
F



Notes:		
Performed by:		
Checked:		
Customer:		
W22 NEMA Premium - Ball Bearings		
Three-phase induction motor Frame 213/5T - IP55	04-DEC-2015	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



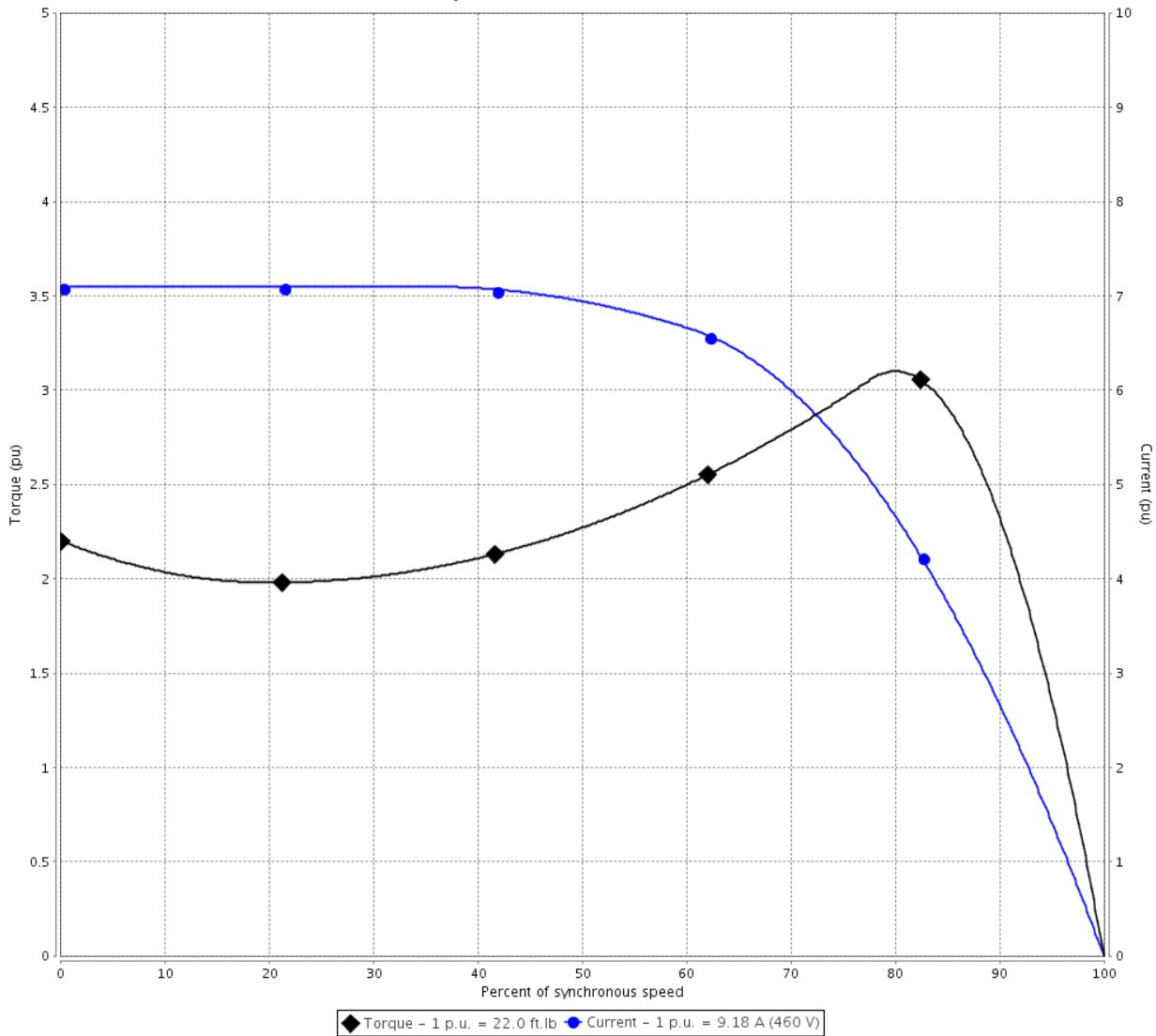
Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12445969

Catalog # : 00718ET3E213TC-W22

TORQUE AND CURRENT VS SPEED CURVE



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

Rated current	: 19.9-18.4/9.18 A	Moment of inertia (J)	: 1.34 sq.ft.lb
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 22.0 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 310 %	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	06/11/2019			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

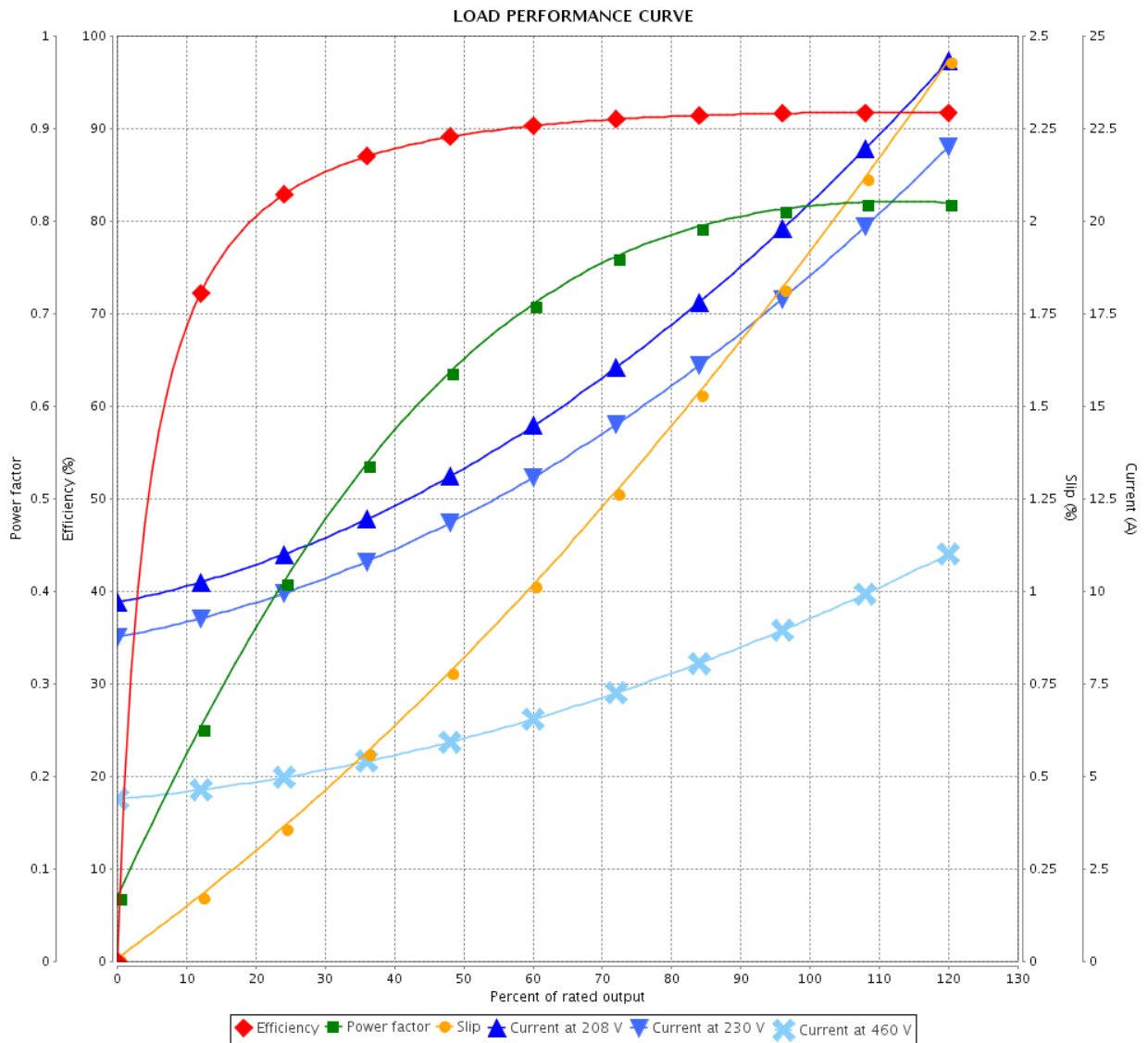


Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12445969

Catalog # : 00718ET3E213TC-W22



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

Rated current : 19.9-18.4/9.18 A
 LRC : 7.1
 Rated torque : 22.0 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 310 %
 Rated speed : 1765 rpm

Moment of inertia (J) : 1.34 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		3 / 6		
Date		06/11/2019		

THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12445969

Catalog # : 00718ET3E213TC-W22

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

Rated current : 19.9-18.4/9.18 A	Moment of inertia (J) : 1.34 sq.ft.lb
LRC : 7.1	Duty cycle : Cont.(S1)
Rated torque : 22.0 ft.lb	Insulation class : F
Locked rotor torque : 220 %	Service factor : 1.25
Breakdown torque : 310 %	Temperature rise : 80 K
Rated speed : 1765 rpm	Design : B

Heating constant

Cooling constant

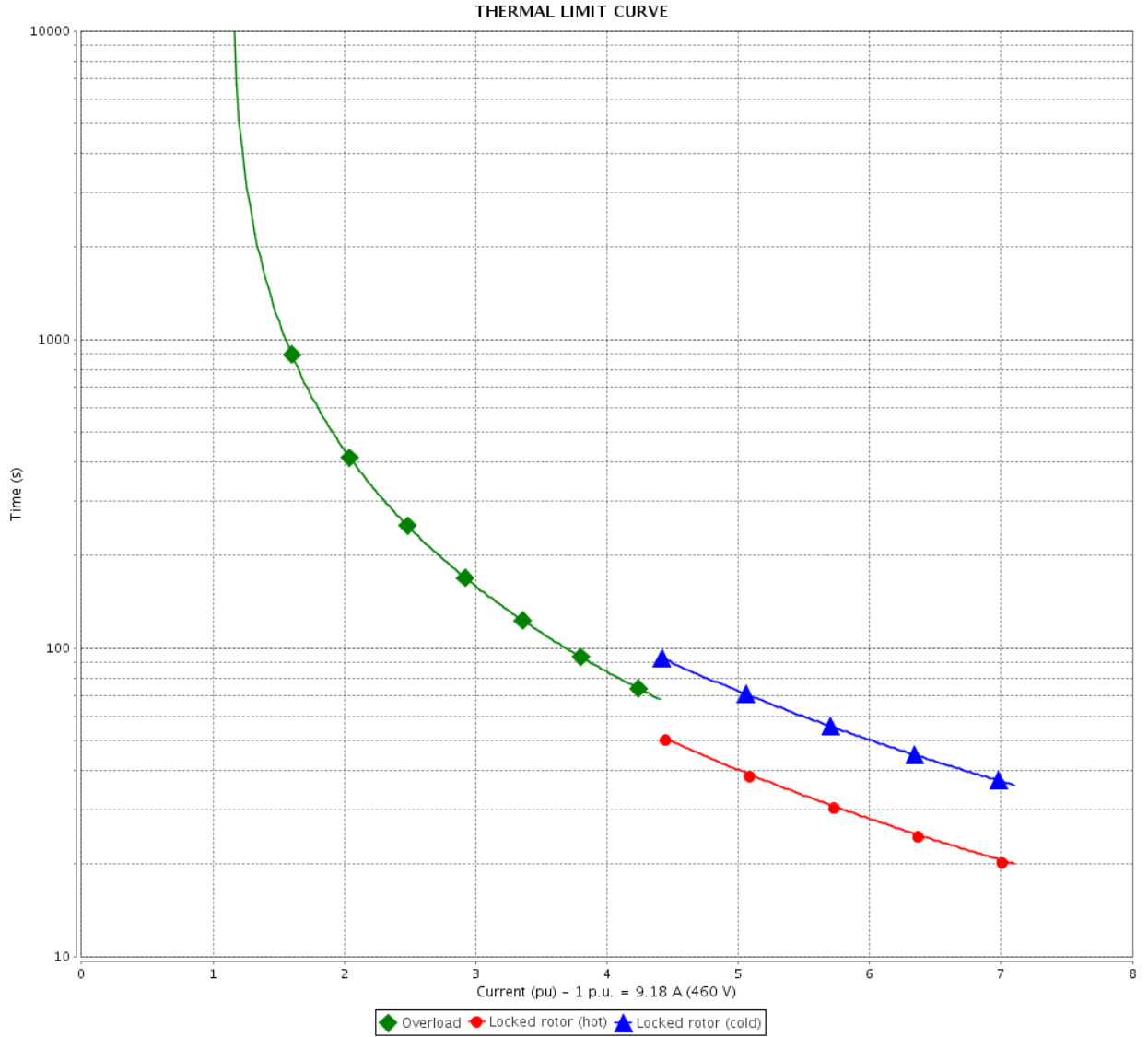
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date	06/11/2019			
			4 / 6	

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

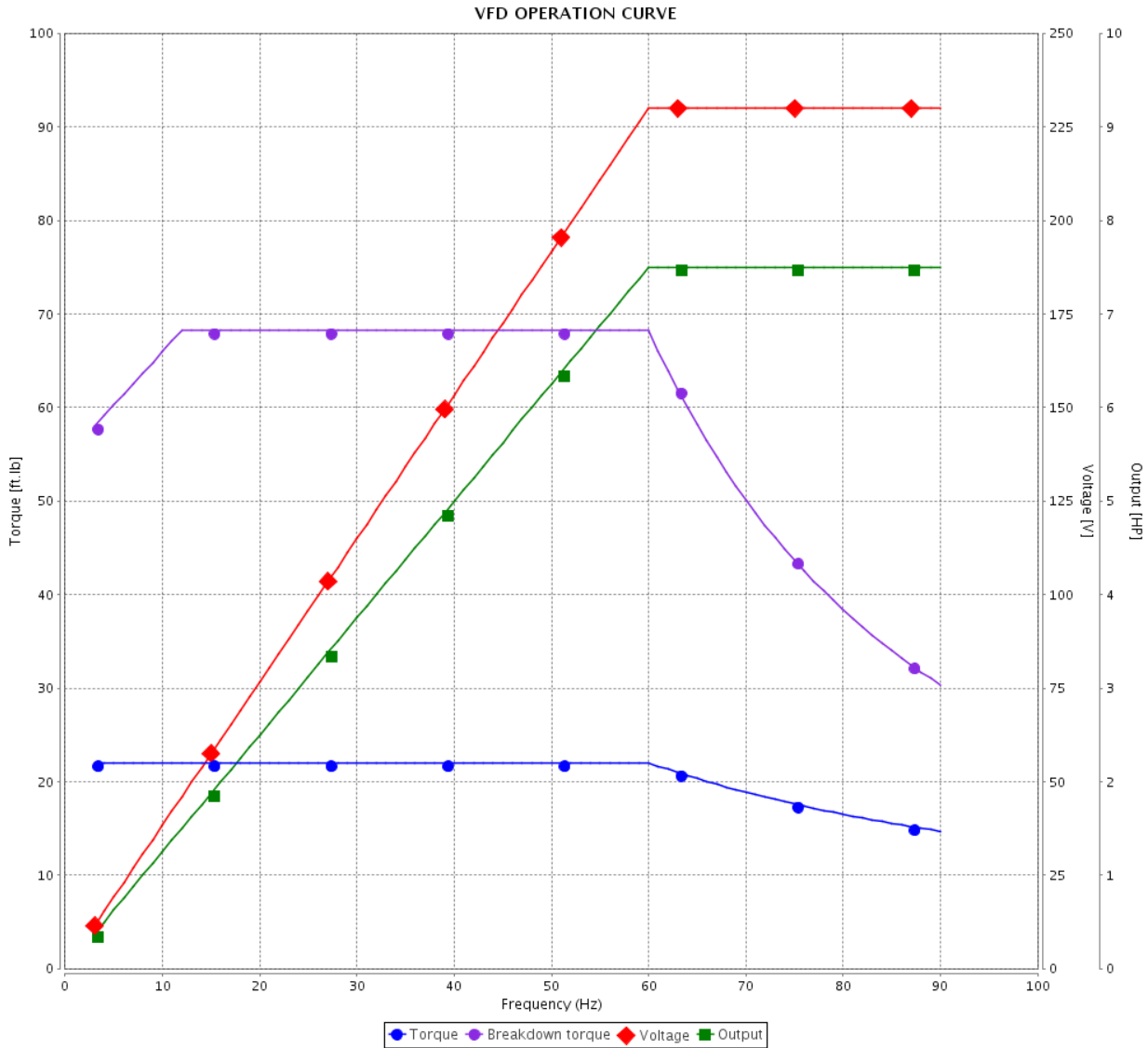


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12445969

Catalog # : 00718ET3E213TC-W22



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

Rated current : 19.9-18.4/9.18 A
 LRC : 7.1
 Rated torque : 22.0 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 310 %
 Rated speed : 1765 rpm

Moment of inertia (J) : 1.34 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

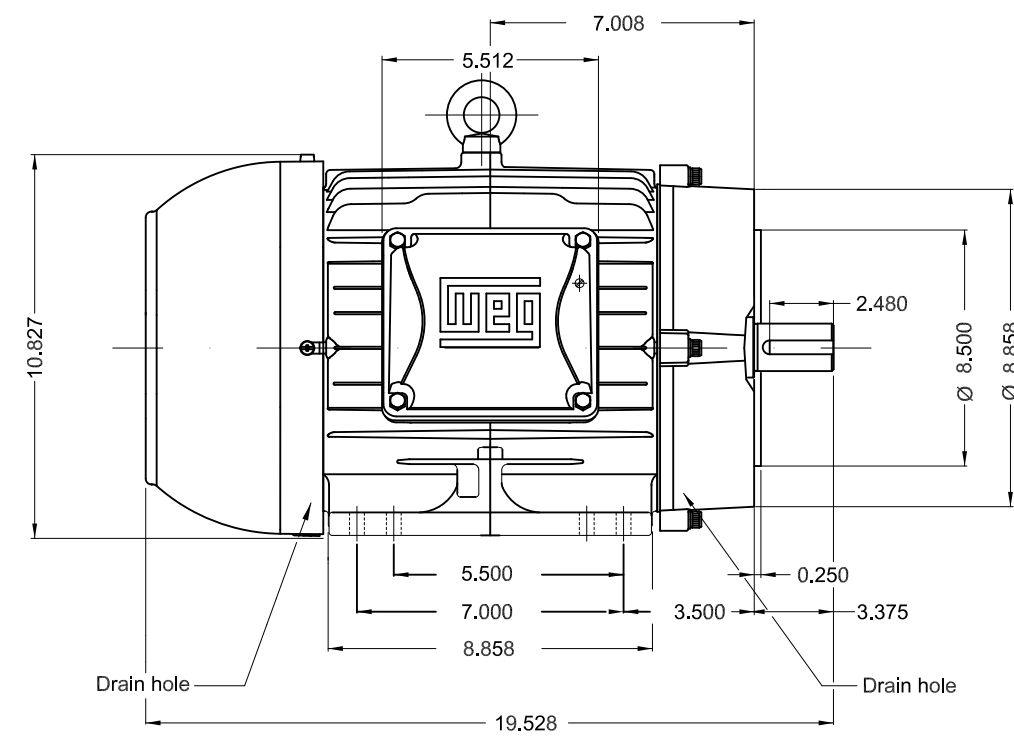
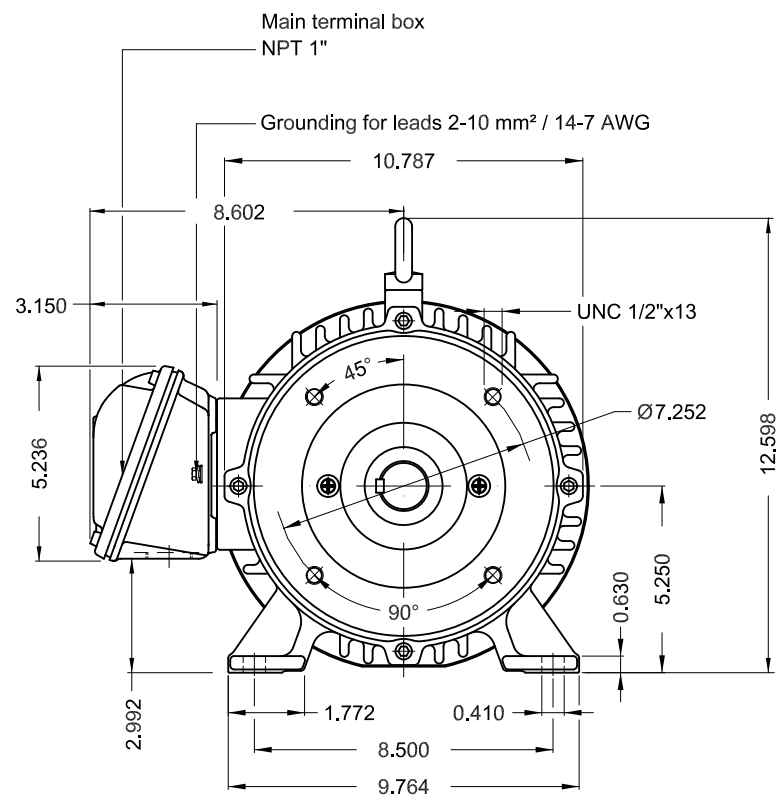
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 6 / 6	Revision
Checked by				
Date	06/11/2019			

1 2 3 4 5 6

A

B

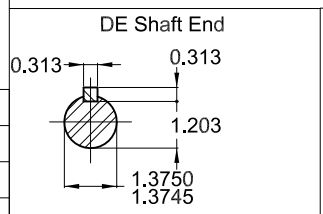
C



D

E

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



7.5 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 213/5TC IP55 TEFC					
CHECKED							
RELEASED							
REL DT.	WMO		Jaragua do Sul	Product Engineering	SHEET	1 / 1	

PREVIEW
WDD



Dimensions in inches XME A3

**W22**

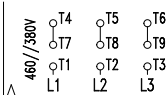
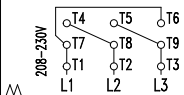
CC029A

® Inverter Duty Motor
Severe Duty

12445969

MADE IN MEXICO MODEL 00718ET3E213TC-W22

PH 3	FR 213/5TC	HP(kw) 7.5(5.5)	Hz 60	SF 1.25	PF 0.82
V 230/460	A 18.4/9.18	RPM 1765	INS. CL. F	ΔT 80 K	IP55
NEMA NOM EFF 91.7 %			DES B DUTY CONT.		AMB 40°C
ENCL TEFC	SFA 23.0/11.5	USABLE @208V 19.9 A	SF 1.15	SFA 22.9	
7.5HP 5.5kW 50Hz 380V 11.0A 1455RPM SF1.25 EFF 89.6% (IE3)					CODE H



→ 6308-ZZ
→ 6207-ZZ

MOBIL POLYREX EM

ALT 1000 m.a.s.l. | 168 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 - T4
 For use on PWM, Gr. A, B, C, D and F
 VT 1000:1, CT 20:1, 1.0SF, T3A

FOR SAFE AREA
MOD.TE1BFOXON