

- NOTES:
1. COUPLING GUARD NOT SHOWN IN TOP VIEW.
 2. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

MODELS: GB-425021-R00-D, GB-425021-R10-D

STATE	Released	07/19/2023	DIMENSIONS ARE IN INCHES
DRAWN	bmanternach	2/9/2023	
CHECKED	BAM	07/19/2023	



VIKING PUMP, INC.
A Unit of IDEX Corporation
Cedar Falls, IA 50613
U.S.A.

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3D DWG. NO.
GPV-25021-6

SHEET 1 OF 1
REV. A.1
07/19/2023



No.:

Date: 19-MAR-2018

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 NEMA Premium - Ball Bearings

Catalog Number : 20012ET3G447T-W22

List Price : \$ Contact us for new item

Notes:

Performed by:

Checked:



No.:

Date: 19-MAR-2018

DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame : 445/7T
Output : 200 HP
Frequency : 60 Hz
Poles : 6
Full load speed : 1185 rpm
Slip : 1.25 %
Voltage : 460 V
Rated current : 237 A
Locked rotor current : 1490 A
Locked rotor current (I_L/I_n) : 6.3
No-load current : 100 A
Full load torque : 874 lb.ft
Locked rotor torque : 230 %
Breakdown torque : 240 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 15 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000 m
Degree of Protection : IP55
Approximate weight : 2247 lb
Moment of inertia : 144.52 sq.ft.lb
Noise level : 69 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6319 C3	6316 C3	100%	0.83	95.8
Regreasing interval	13000 h	16000 h	75%	0.79	95.4
Grease amount	45 g	34 g	50%	0.68	95.0

Notes:

Performed by

Checked

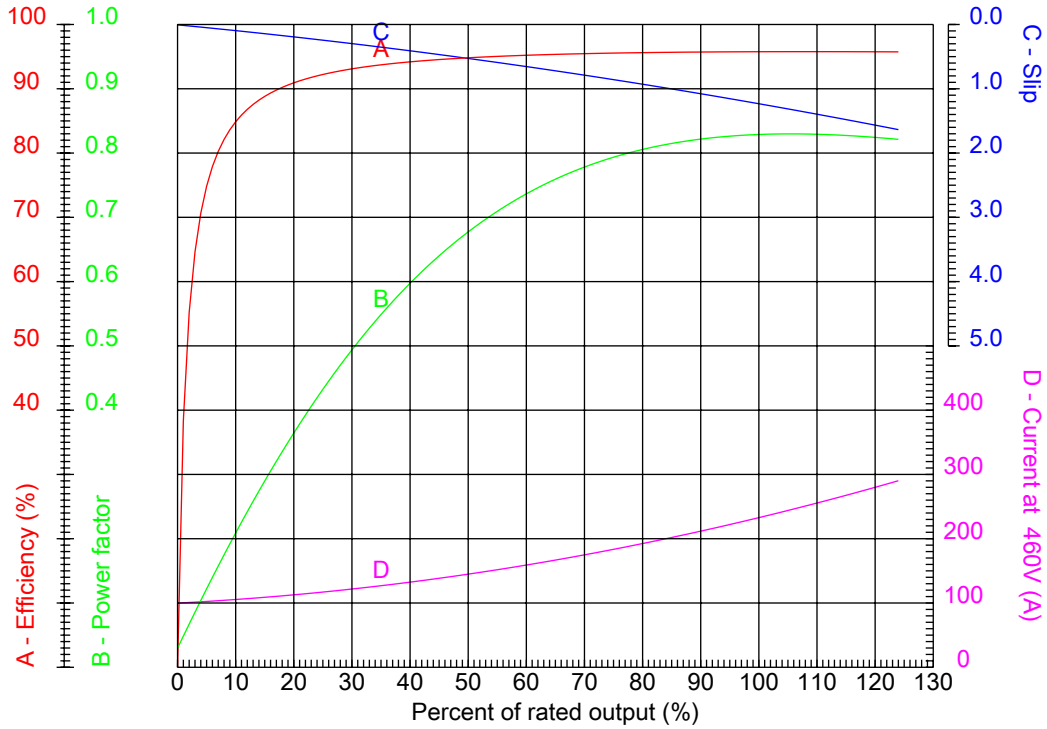


No.:

Date: 19-MAR-2018

PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
 Product line : W22 NEMA Premium - Ball Bearings

Frame : 445/7T	Locked rotor current (I _l /I _n) : 6.3
Output : 200 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 1185 rpm	Design : B
Voltage : 460 V	Locked rotor torque : 230 %
Rated current : 237 A	Breakdown torque : 240 %
Insulation class : F	

Notes:

Performed by

Checked

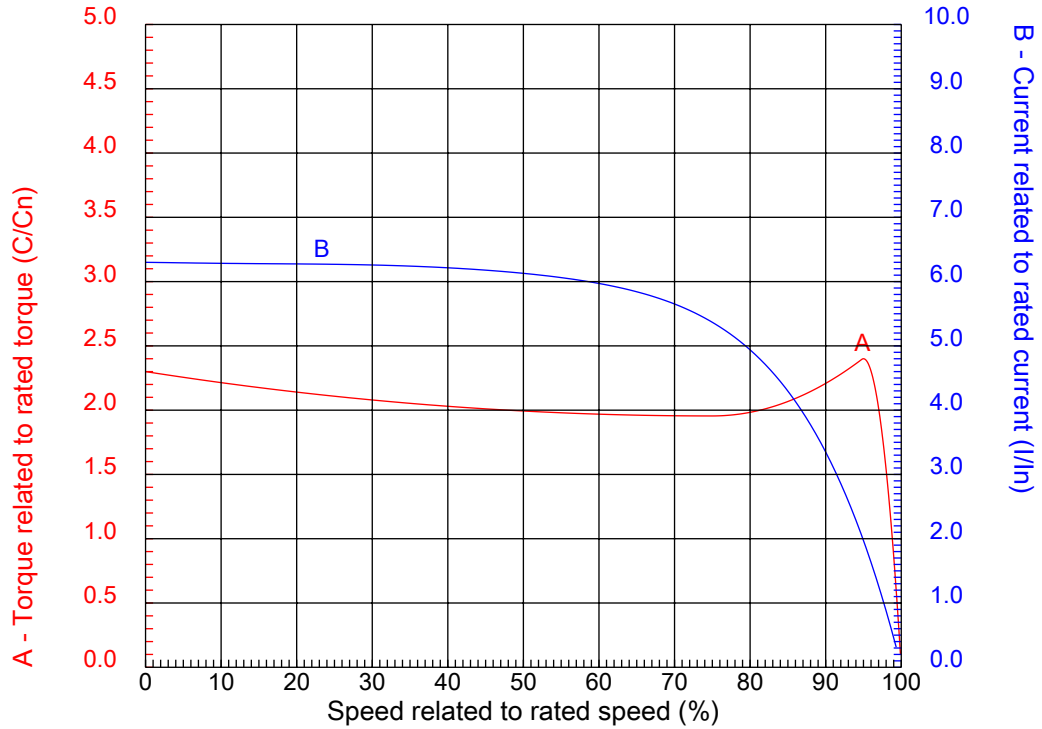


No.:

Date: 19-MAR-2018

CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame	: 445/7T	Locked rotor current (I _l /I _n)	: 6.3
Output	: 200 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1185 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 230 %
Rated current	: 237 A	Breakdown torque	: 240 %
Insulation class	: F		

Notes:

Performed by

Checked

1 2 3 4 5 6 7 8

A

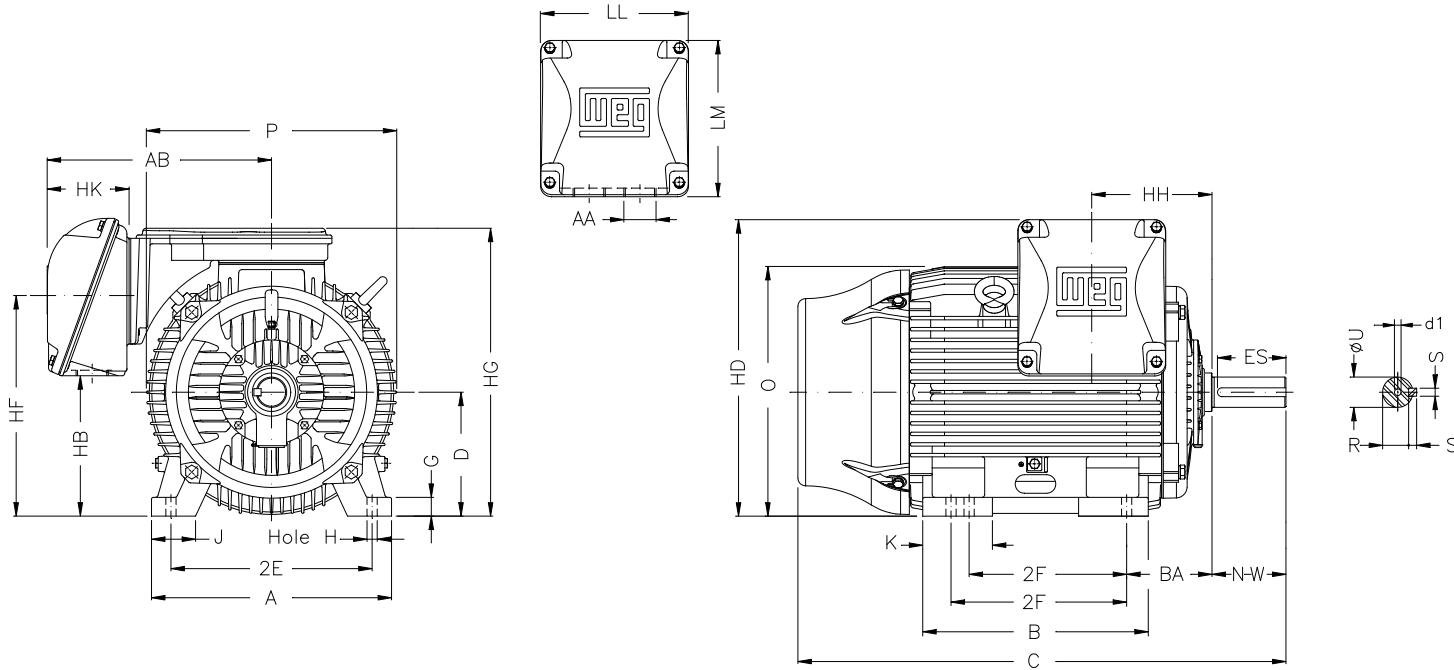
B

C

D

E

F



Notes:

2E 18.000	J 3.937	A 21.929	P 23.583	AB 20.559
2F 16.500/20.000	K 7.244	B 23.897	BA 7.500	U 3.375
N-W 8.500	ES 7.087	S 0.875	R 2.880	depth 0.875
D 11.000	G 1.654	HB 12.488	O 22.795	HD 27.527
HF 20.724	HG 26.830	HH 11.811	HK 6.929	EV 1.929
H 0.810	C 48.779	LL 14.921	LM 15.039	AA 2xNPT 3"
d1 DUNC 3/4"-10				

Performed by:

Checked:

Customer:

W22 NEMA Premium - Ball Bearings

Three-phase induction motor
Frame 445/7T - IP55

19-MAR-2018



1 2 3 4 5 6 7 8

A

PART-WINDING

WYE-DELTA

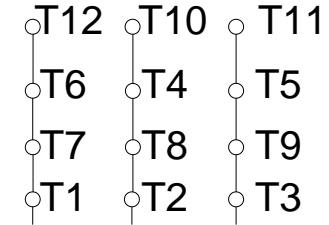
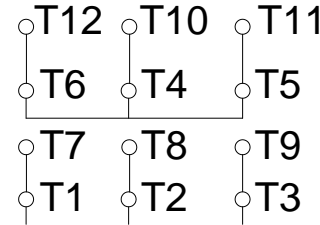
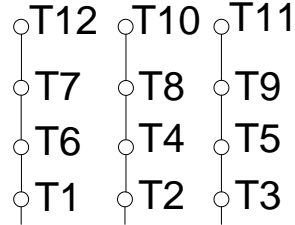
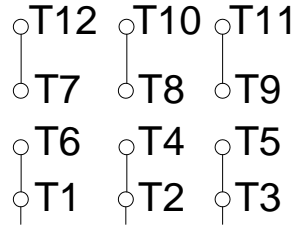
START

RUN

START

RUN

B



C

L1 L2 L3

L1 L2 L3

L1 L2 L3

L1 L2 L3

D

E

F

Notes:

Performed by:

Checked:

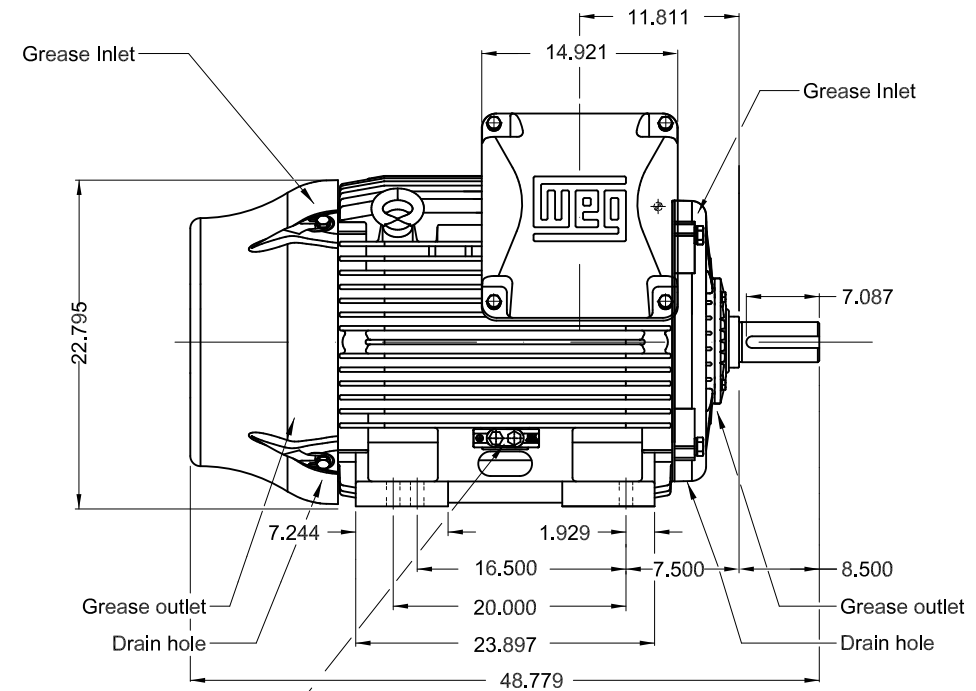
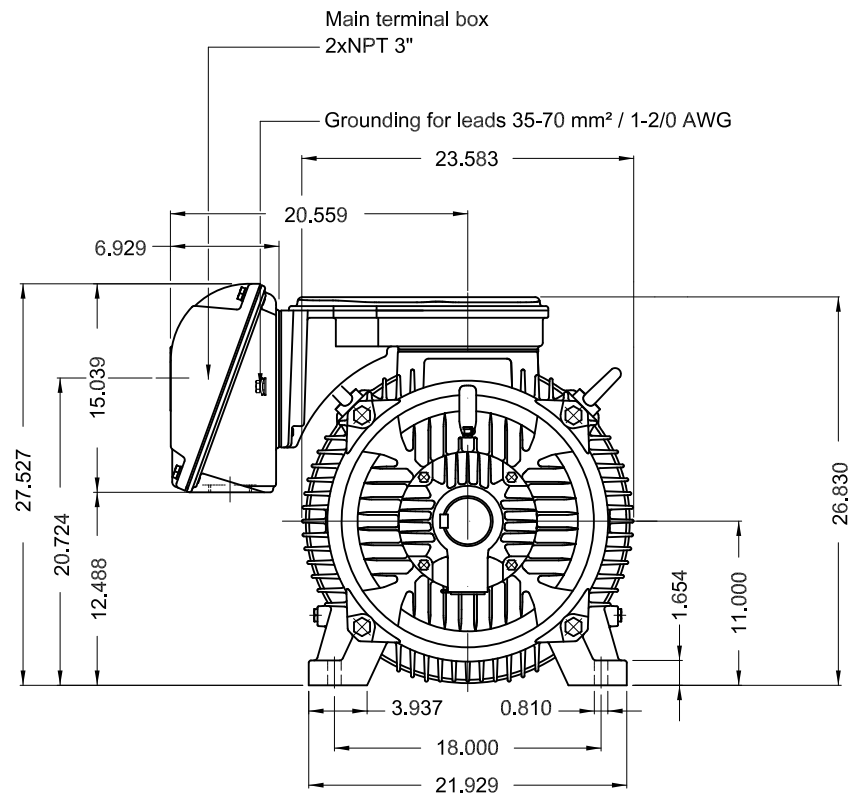
Customer:

W22 NEMA Premium - Ball Bearings

Three-phase induction motor
Frame 445/7T - IP55

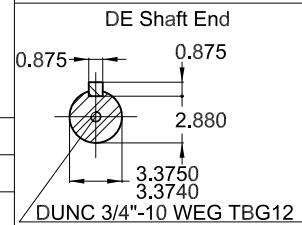
19-MAR-2018





Grounding for leads 25-185 mm² / 3AWG-350MCM

Color RAL 5009
 Painting plan 203A
 Mounting B3R(D)



150 HP 06 Poles 60Hz A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN	THREE PHASE W22 MOTOR - NEMA PREMIUM EFF FRAME 445/7T IP55 TEFC					
CHECKED							
RELEASED							
REL DT	WMO	Jaragua do Sul	Product Engineering	SHEET 1 / 1			

PREVIEW

WDD

