

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11408296
Catalog # : 35012ET3G449T-W22

Frame	: L447/9T	Locked rotor time	: 41s (cold) 23s (hot)
Output	: 350 HP (260 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 415 A	Protection degree	: IP55
L. R. Amperes	: 2864 A	Cooling method	: IC411 - TEFC
LRC	: 6.9x(Code H)	Mounting	: F-1
No load current	: 160 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1190 rpm	Noise level ²	: 71.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 1520 ft.lb	Approx. weight ³	: 3582 lb
Locked rotor torque	: 250 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 278 sq.ft.lb		
Design	: A		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	95.3	95.4	95.8	95.8	Max. traction	: 10936 lb
Power Factor	0.42	0.66	0.77	0.82	Max. compression	: 14518 lb

		Drive end	Non drive end
Bearing type	:	6322 C3	6319 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	11000 h	13000 h
Lubricant amount	:	60 g	45 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		Page Revision 1 / 4		
Checked by				
Date	27/04/2018			

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

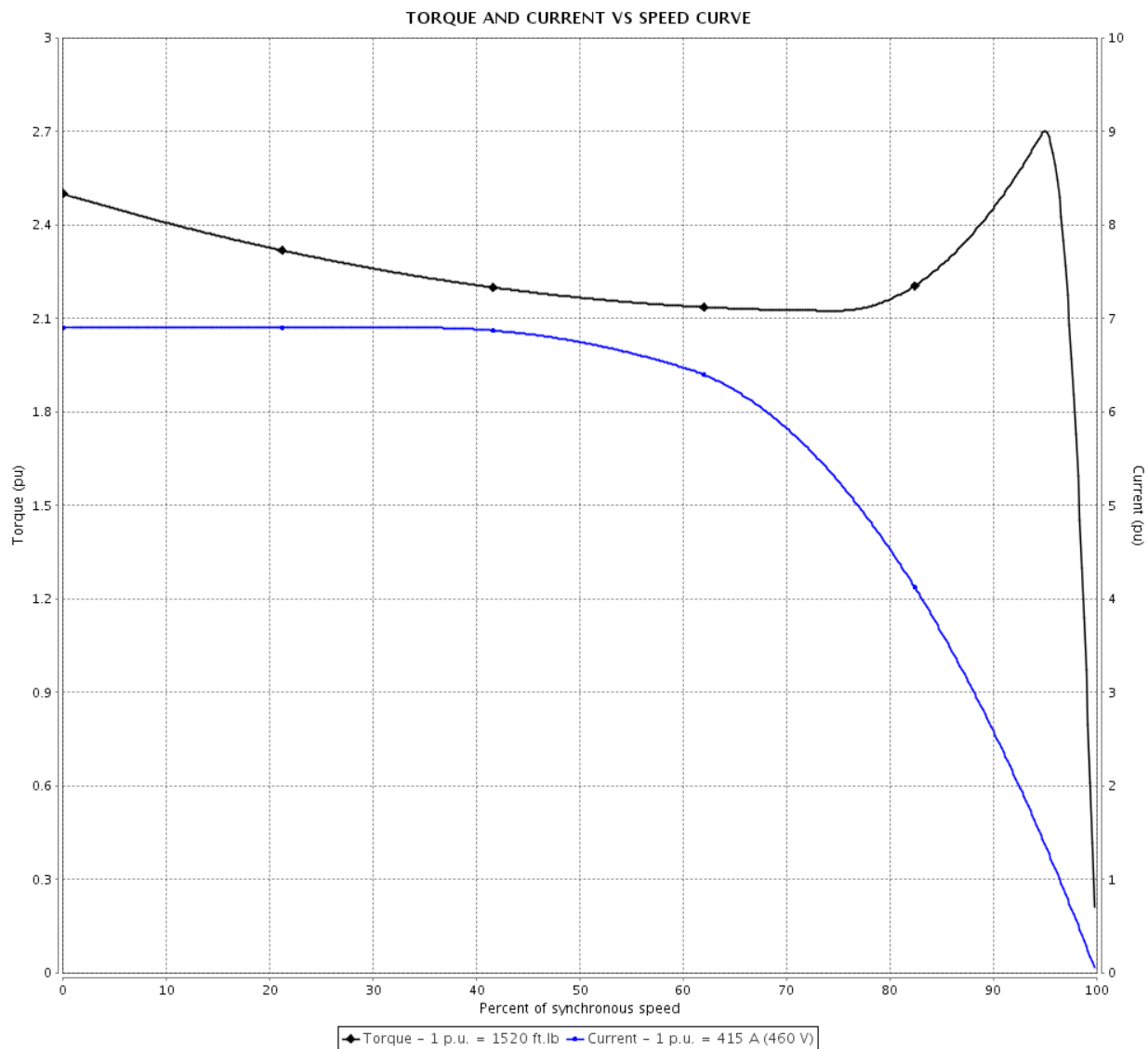


Customer :

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Three-Phase

Product code : 11408296

Catalog # : 35012ET3G449T-W22



Performance : 460 V 60 Hz 6P

Rated current	: 415 A	Moment of inertia (J)	: 278 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 1520 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1190 rpm	Design	: A

Locked rotor time : 41s (cold) 23s (hot)

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Performed by		<div>Page 2 / 4</div> <div>Revision</div>		
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

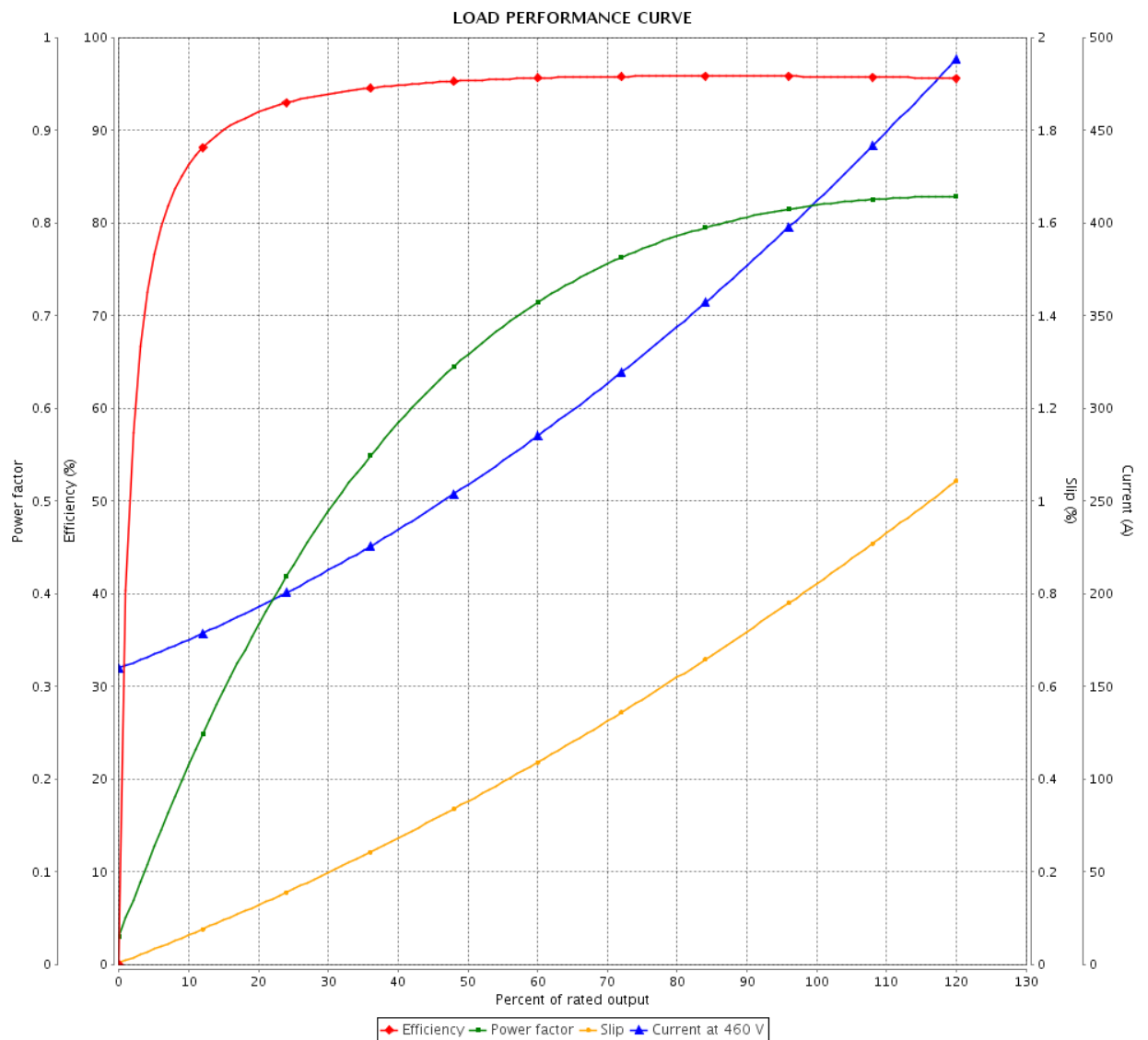


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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

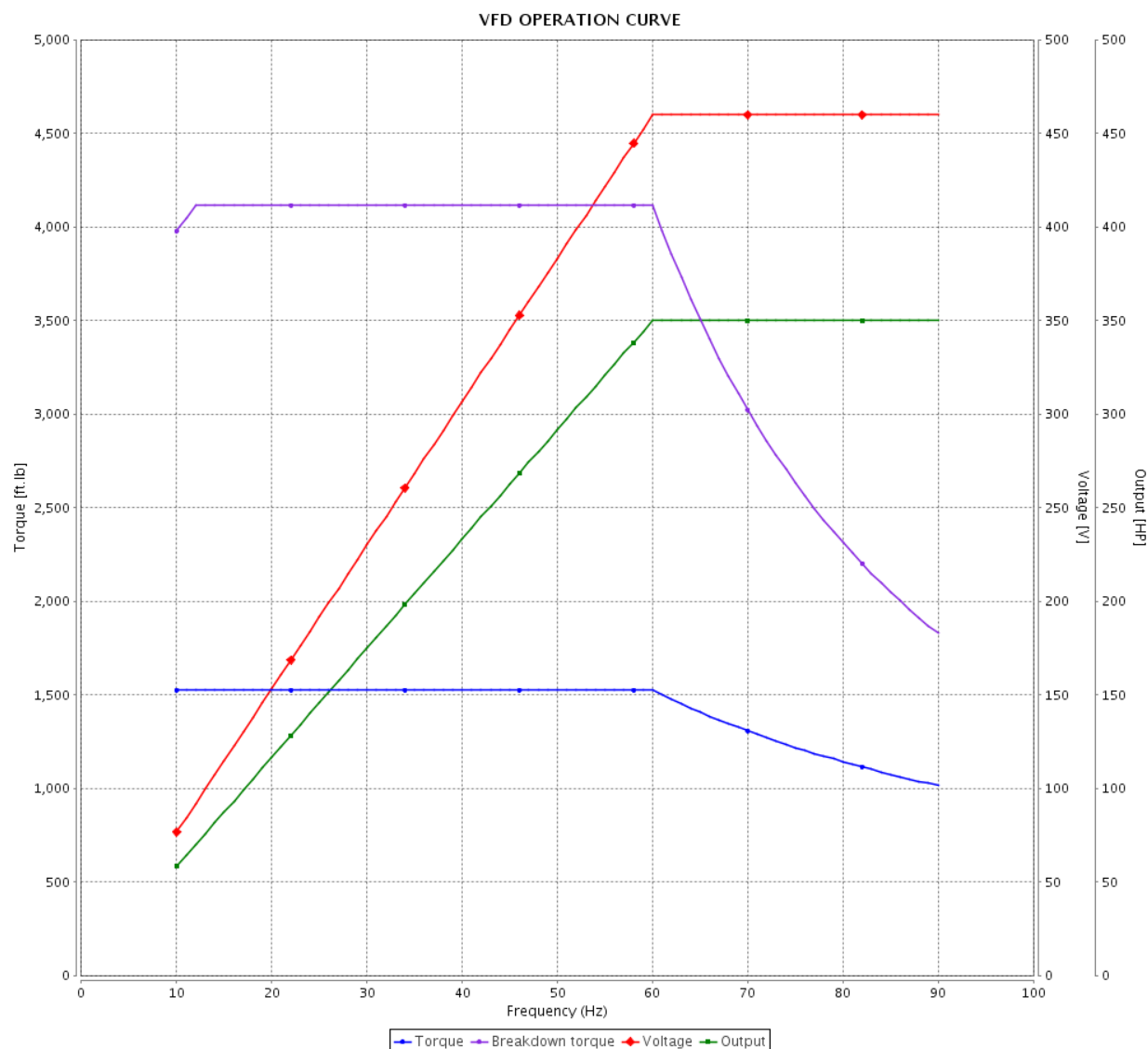


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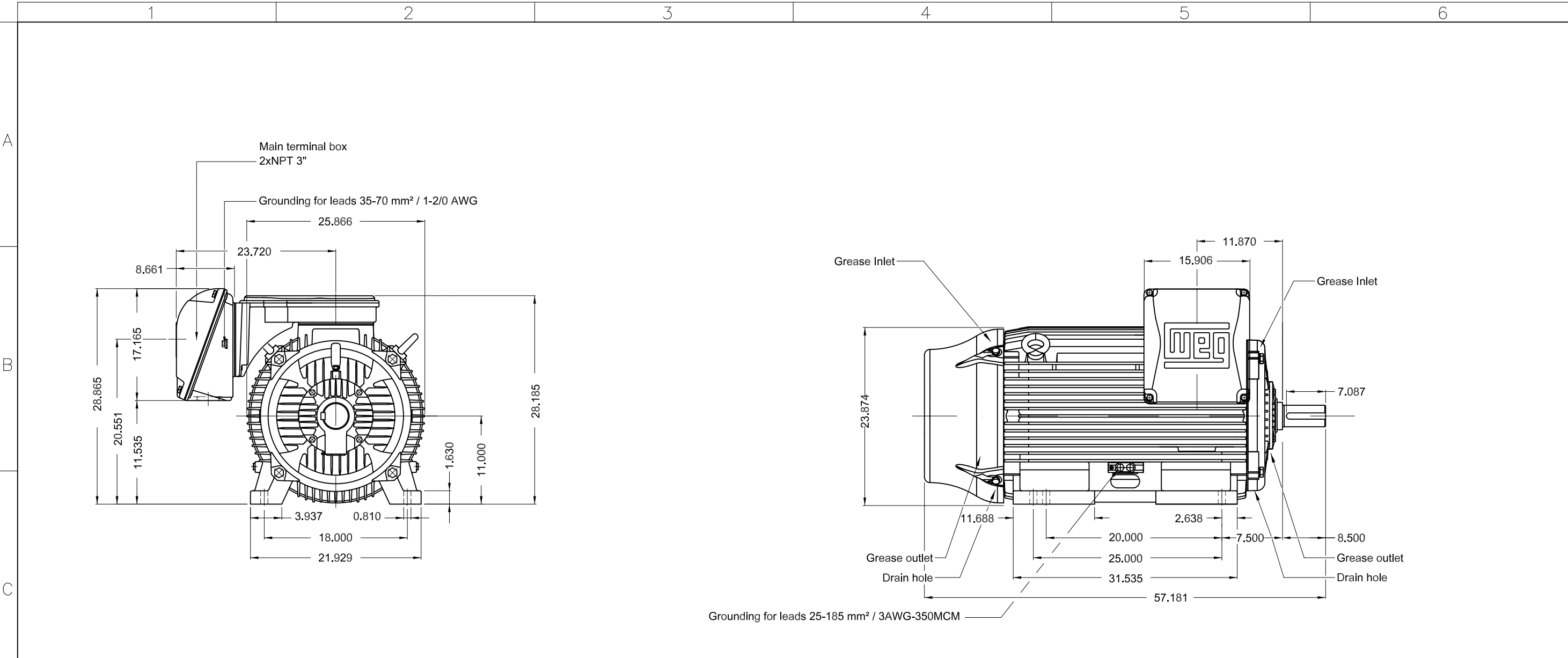


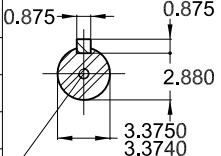
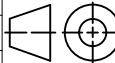

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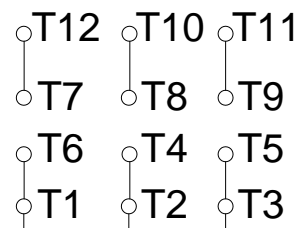
D					350 HP 06 Poles 60Hz										A							
E	<div><div>DE Shaft End</div><div></div></div>																					
NDE endshield with electrically insulated bearing hub																						
Color RAL 5009																						
Painting plan 203A																						
Mounting B3R(D)																						
													ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED		USERADMIN				THREE PHASE W22 MOTOR - NEMA PREMIUM EFF					PREVIEW			WDD								
CHECKED				FRAME L447/9T IP55 TEFC																		
RELEASED																						
REL DT				WMO		Jaragua do Sul					Product Engineering			SHEET 1 / 1								

1 2 3 4 5 6 7 8

A

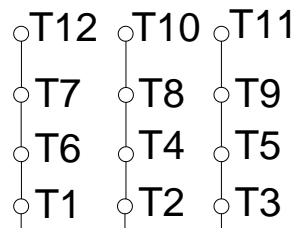
PART-WINDING

START



L1 L2 L3

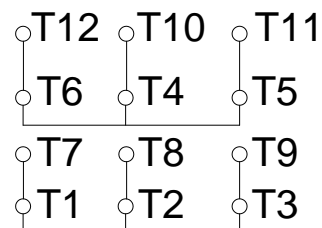
RUN



L1 L2 L3

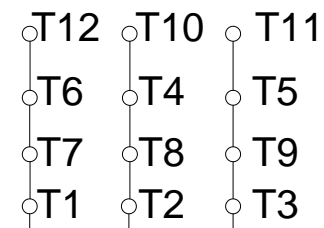
WYE-DELTA

START



L1 L2 L3

RUN



L1 L2 L3

B

C

D

E

F

Notes:

Performed by:

Checked:

Customer:

W22 NEMA Premium - Ball Bearings

Three-phase induction motor
Frame 447/9T - IP55

28-MAR-2018

