

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11165759
Catalog # : HT060506NPRBW22

Frame	: 404/5T	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 60 HP (45 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 55.6 A	Protection degree	: IP55
L. R. Amperes	: 395 A	Cooling method	: IC411 - TEFC
LRC	: 7.1x(Code H)	Mounting	: F-1
No load current	: 20.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1185 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 1.25 %	Starting method	: Direct On Line
Rated torque	: 266 ft.lb	Approx. weight ³	: 1036 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 36.9 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	94.1	94.5	94.5	Max. traction	: 1271 lb
Power Factor	0.74	0.82	0.86	Max. compression	: 2400 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
5.6	4.6	4.3	2.6	1.8	1.1	0.7

	Drive end	Non drive end
Bearing type	: NU-316 C3	: 6314 C3
Sealing	: WSeal	: WSeal
Lubrication interval	: 12000 h	: 17000 h
Lubricant amount	: 34 g	: 27 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.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

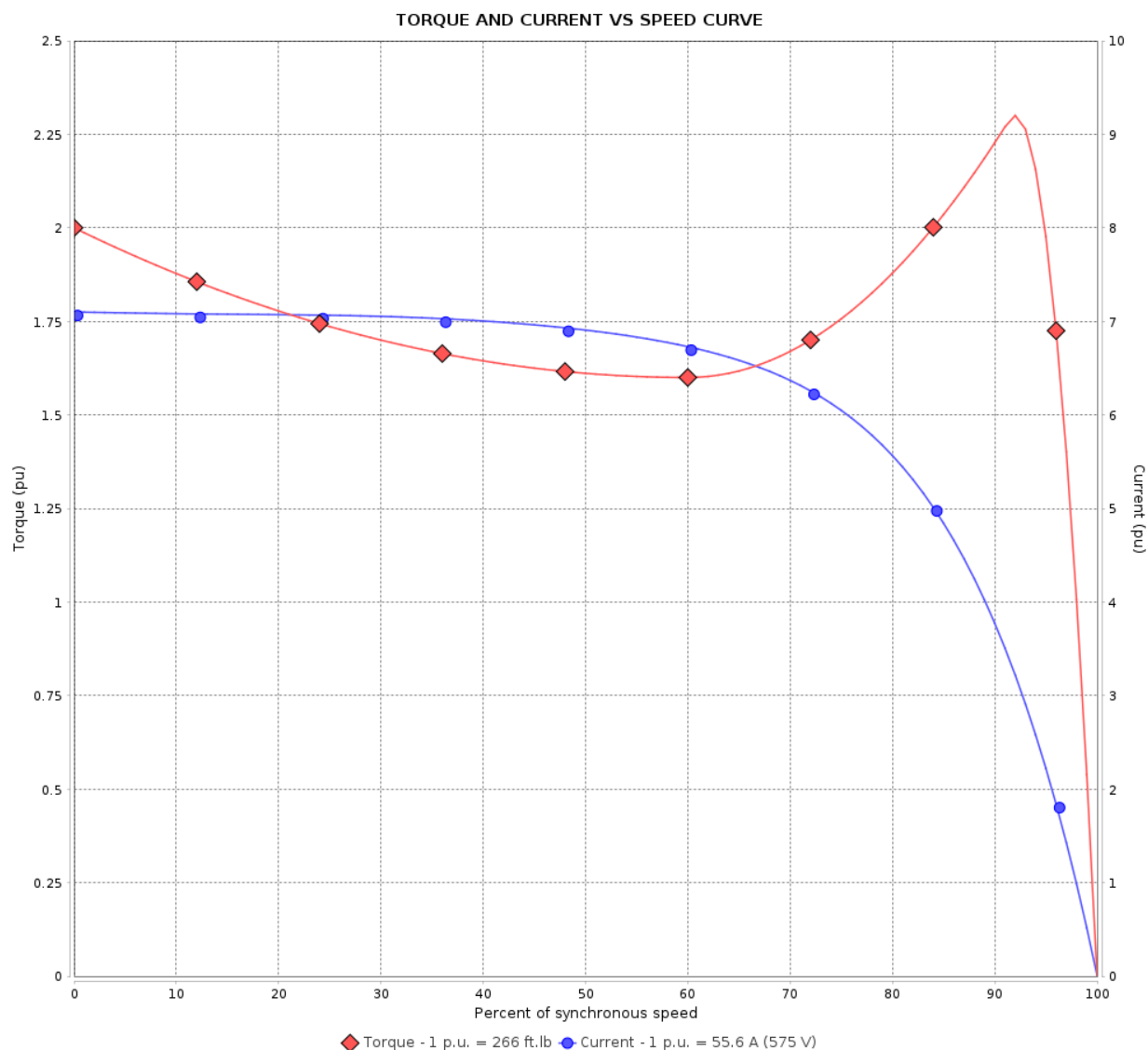


Customer :

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Three-Phase

Product code : 11165759

Catalog # : HT060506NPRBW22



Performance : 575 V 60 Hz 6P

Rated current : 55.6 A
LRC : 7.1
Rated torque : 266 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 229 %
Rated speed : 1185 rpm

Moment of inertia (J) : 36.9 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Locked rotor time : 36s (cold) 20s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

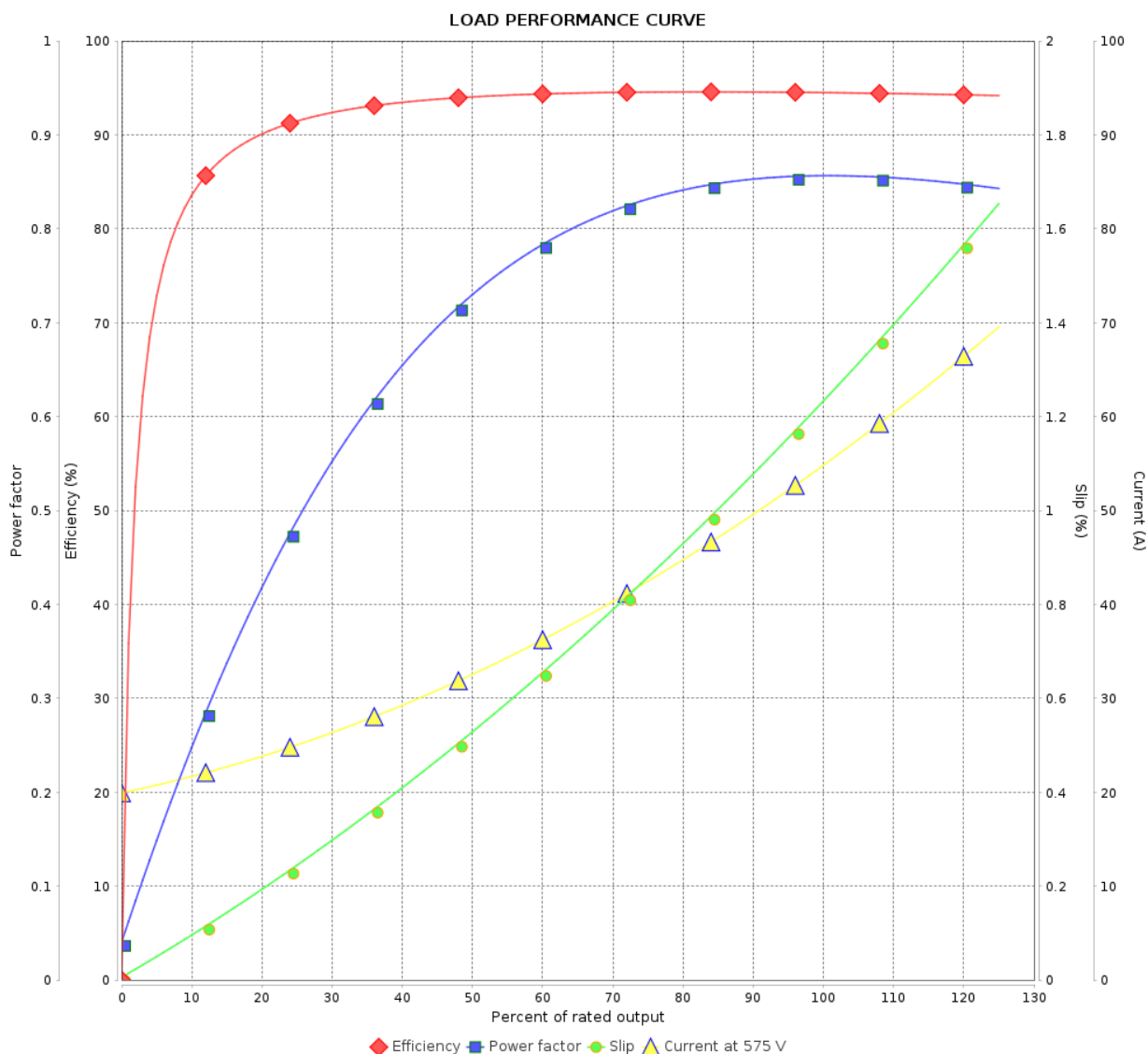


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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



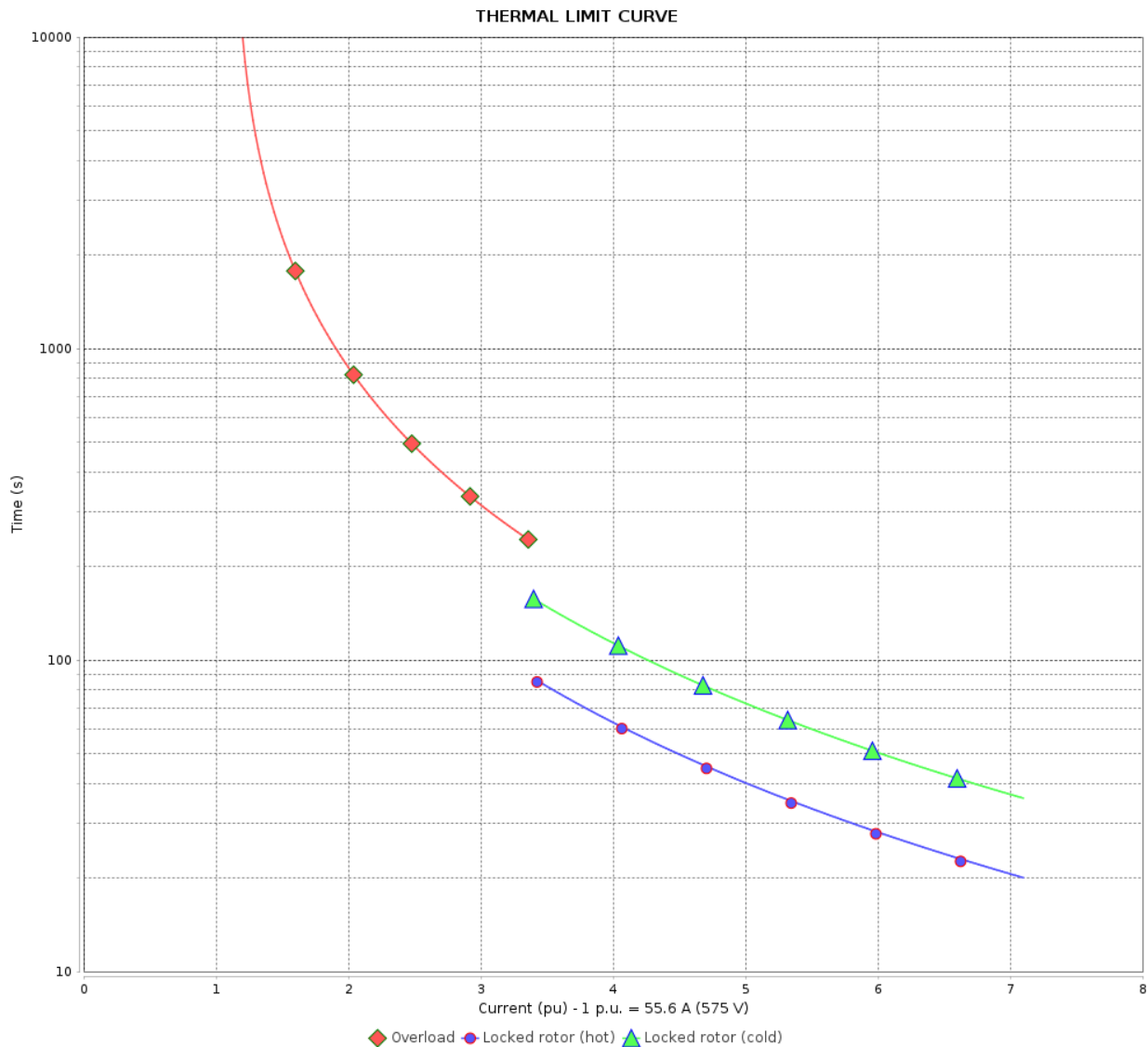
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Rated torque : 266 ft.lb		Insulation class : F			
Locked rotor torque : 200 %		Service factor : 1.25			
Breakdown torque : 229 %		Temperature rise : 80 K			
Rated speed : 1185 rpm		Design : B			
Heating constant					
Cooling constant					
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

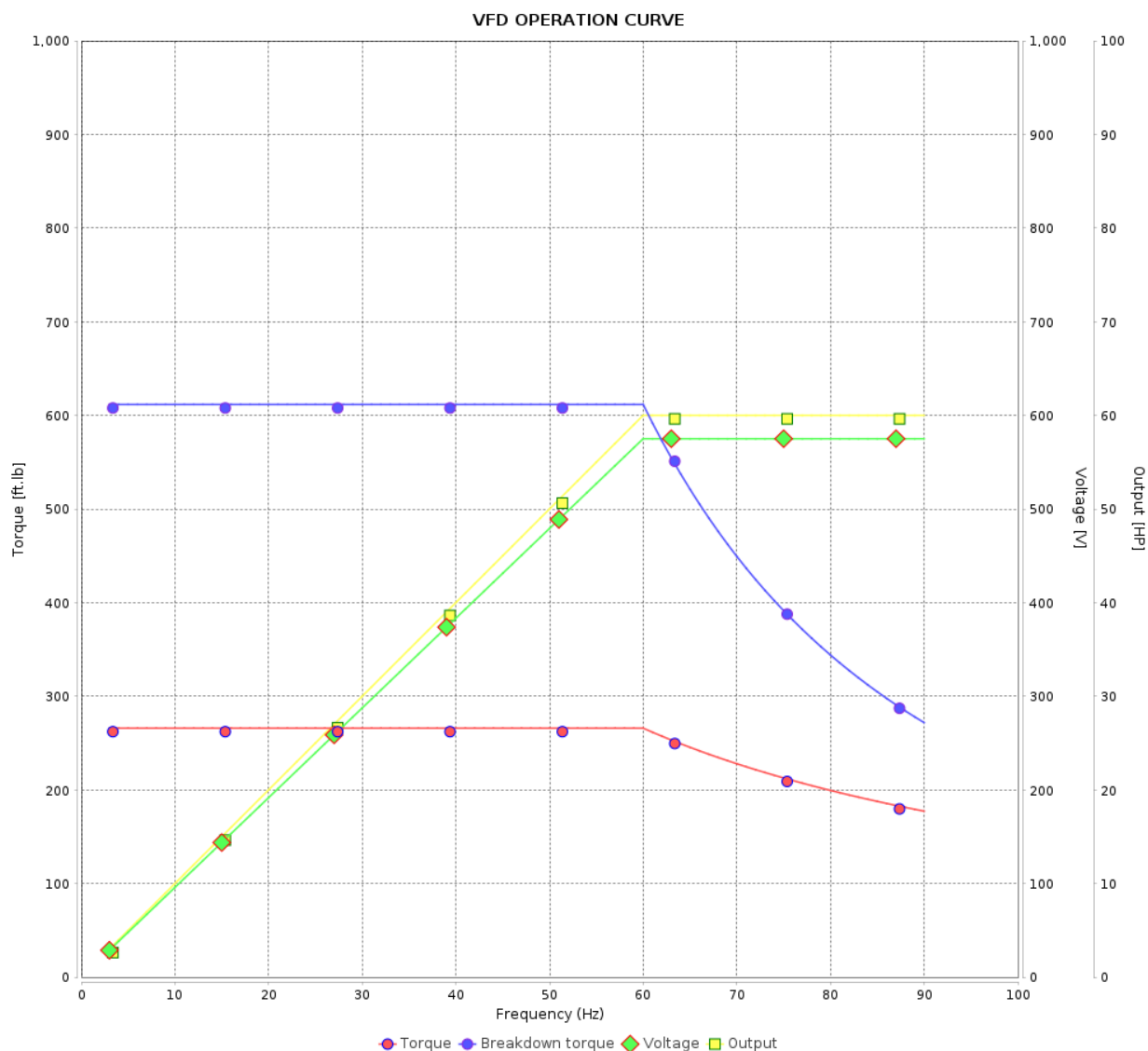


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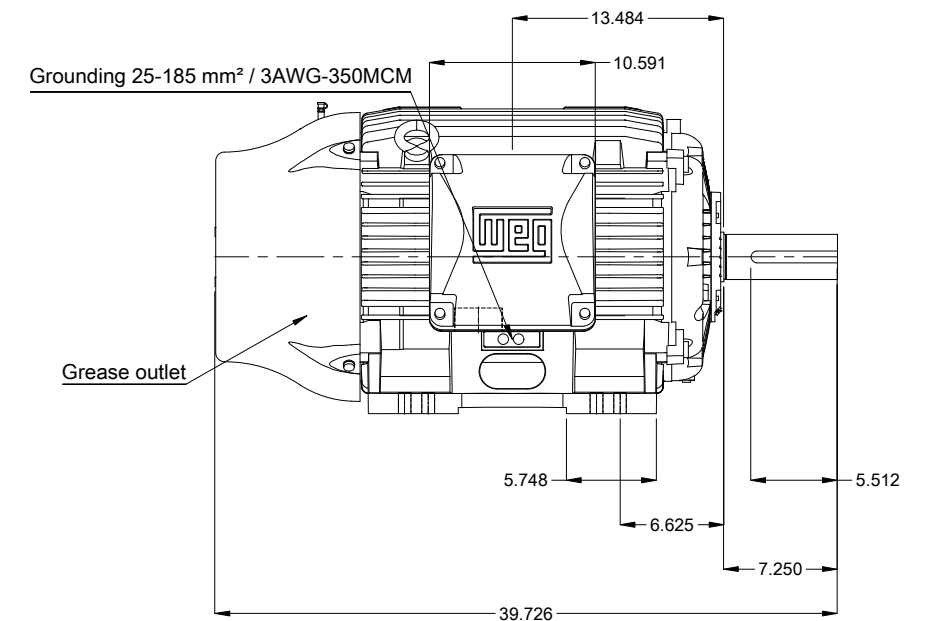
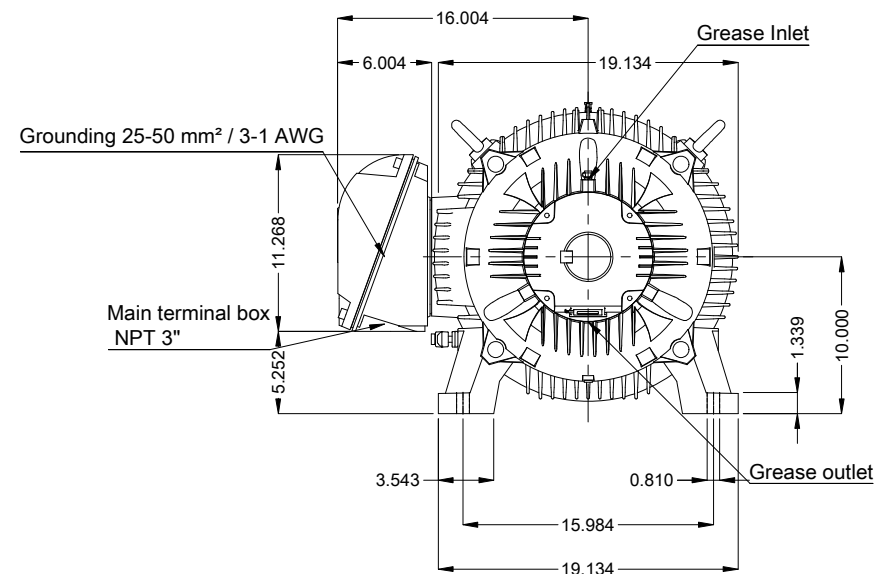
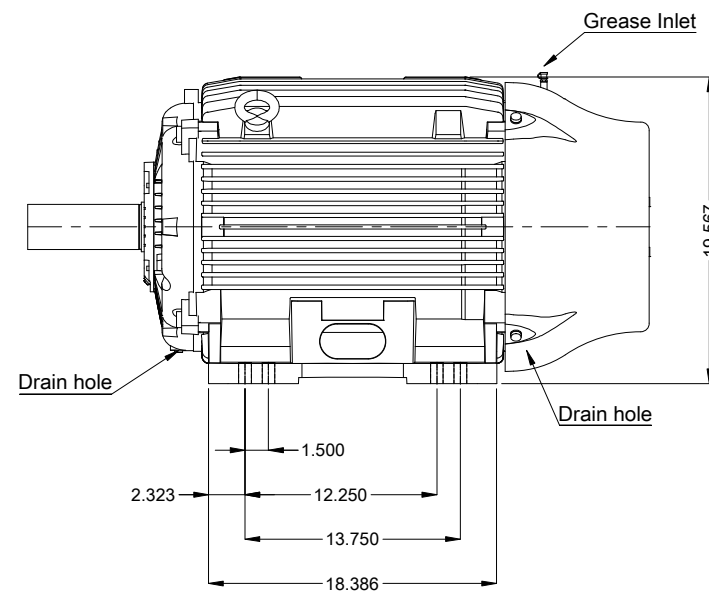


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Without vertical jackscrews

Shaft locking device

Shaft material - AISI/SAE 4140

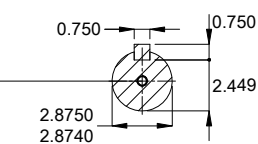
DE roller bearing

Color RAL 5009

Painting plan 203A

Mounting B3R(D)

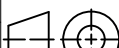
DE Shaft End



DUNC 3/4"-10 WEG WPR-7339

60 HP	06 Poles	60 Hz
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Dimensions in inches

				Scale		1 : 12	
				HYBRISUSER			00
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED	DATE VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR W22 NEMA PREM. EFF. FRAME 404/5T IP55 TEFC	PREVIEW			
CHECKED				WDD 00			
RELEASED							
REL. DATE				SHEET 1 / 1			

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