

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: NEMA Premium Efficiency Three-Phase		Product code :	14441997	
				Catalog # :	00336XT3H182T	
Frame	: 182/4T		Locked rotor time	: 54s (cold) 30s (hot)		
Output	: 3 HP (2.2 kW)		Temperature rise	: 80 K		
Poles	: 2		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	: 3.01 A		Protection degree	: IP55		
L. R. Amperes	: 25.3 A		Cooling method	: IC411 - TEFC		
LRC	: 8.4x(Code K)		Mounting	: F-1		
No load current	: 1.12 A		Rotation ¹	: Both (CW and CCW)		
Rated speed	: 3510 rpm		Noise level ²	: 69.0 dB(A)		
Slip	: 2.50 %		Starting method	: Direct On Line		
Rated torque	: 4.49 ft.lb		Approx. weight ³	: 121 lb		
Locked rotor torque	: 250 %					
Breakdown torque	: 400 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.1471 sq.ft.lb					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	81.3	82.5	85.5	86.5	Max. traction : 54 lb	
Power Factor	0.48	0.73	0.81	0.85	Max. compression : 175 lb	
			<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6307 2RS		6206 2RS		
Sealing	:	Oil Seal		Lip Seal		
Lubrication interval	:	-		-		
Lubricant amount	:	-		-		
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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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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TORQUE AND CURRENT VS SPEED CURVE



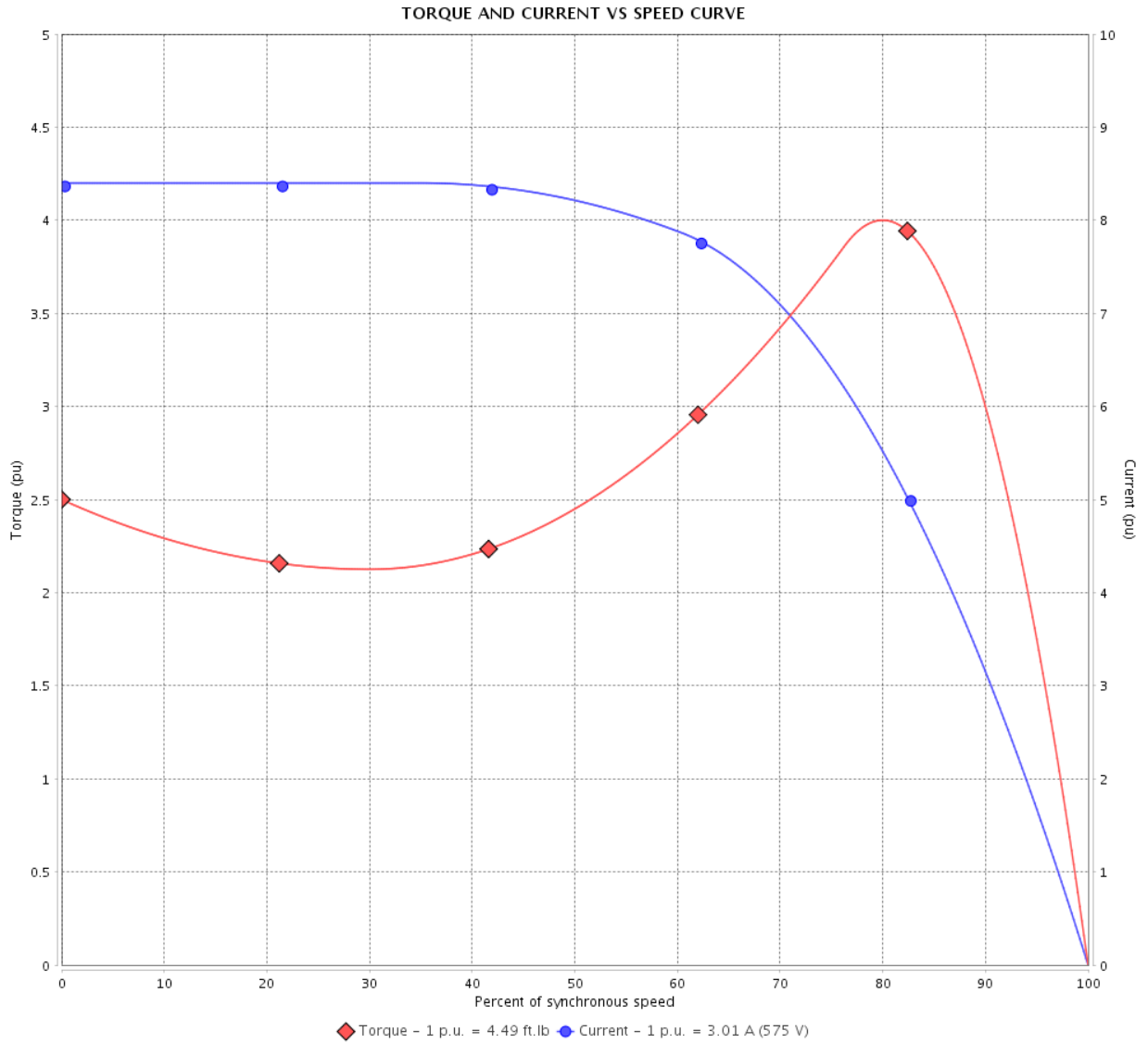
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Catalog # : 00336XT3H182T



Performance : 575 V 60 Hz 2P

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LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 4.49 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: B

Locked rotor time : 54s (cold) 30s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



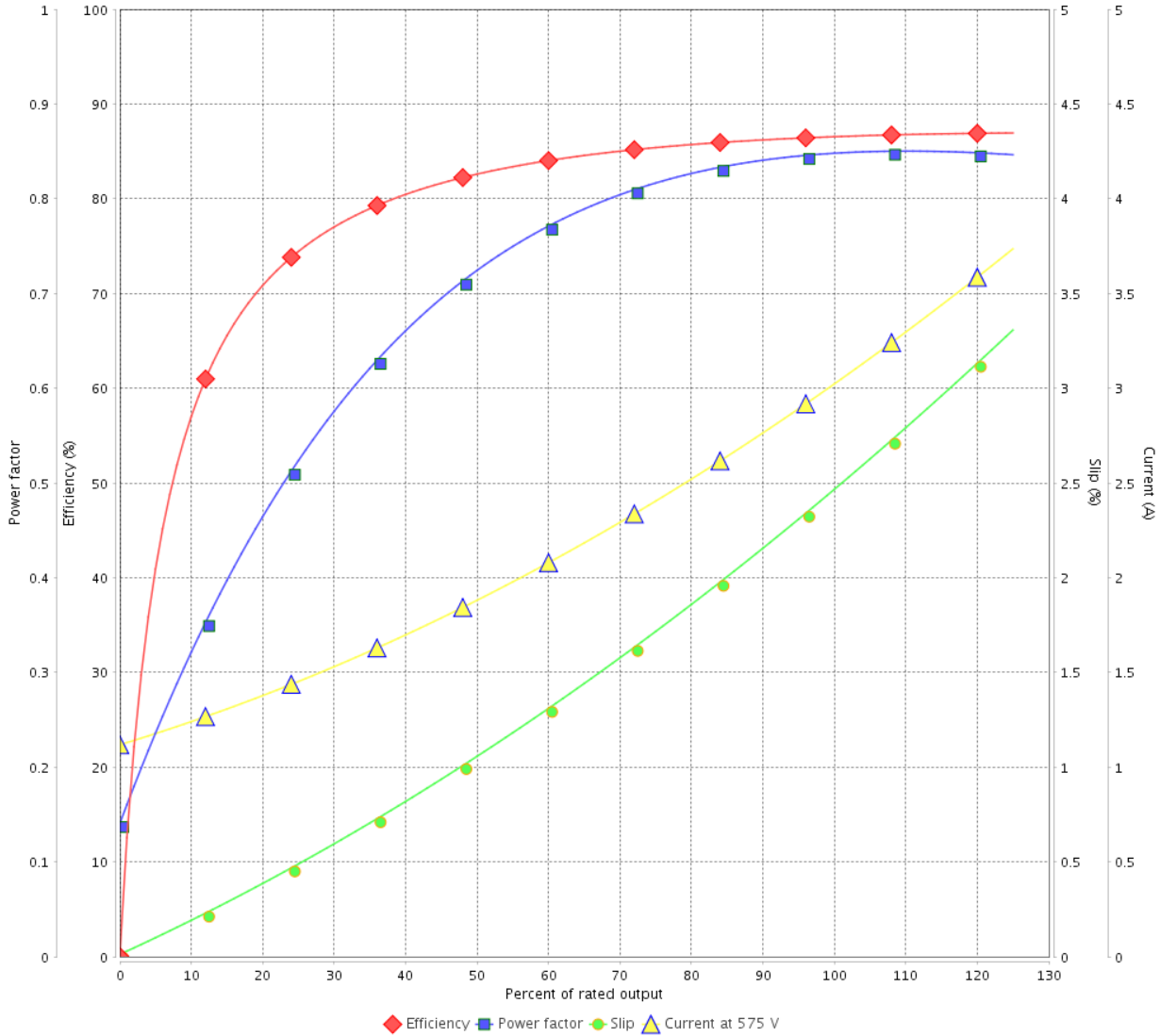
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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

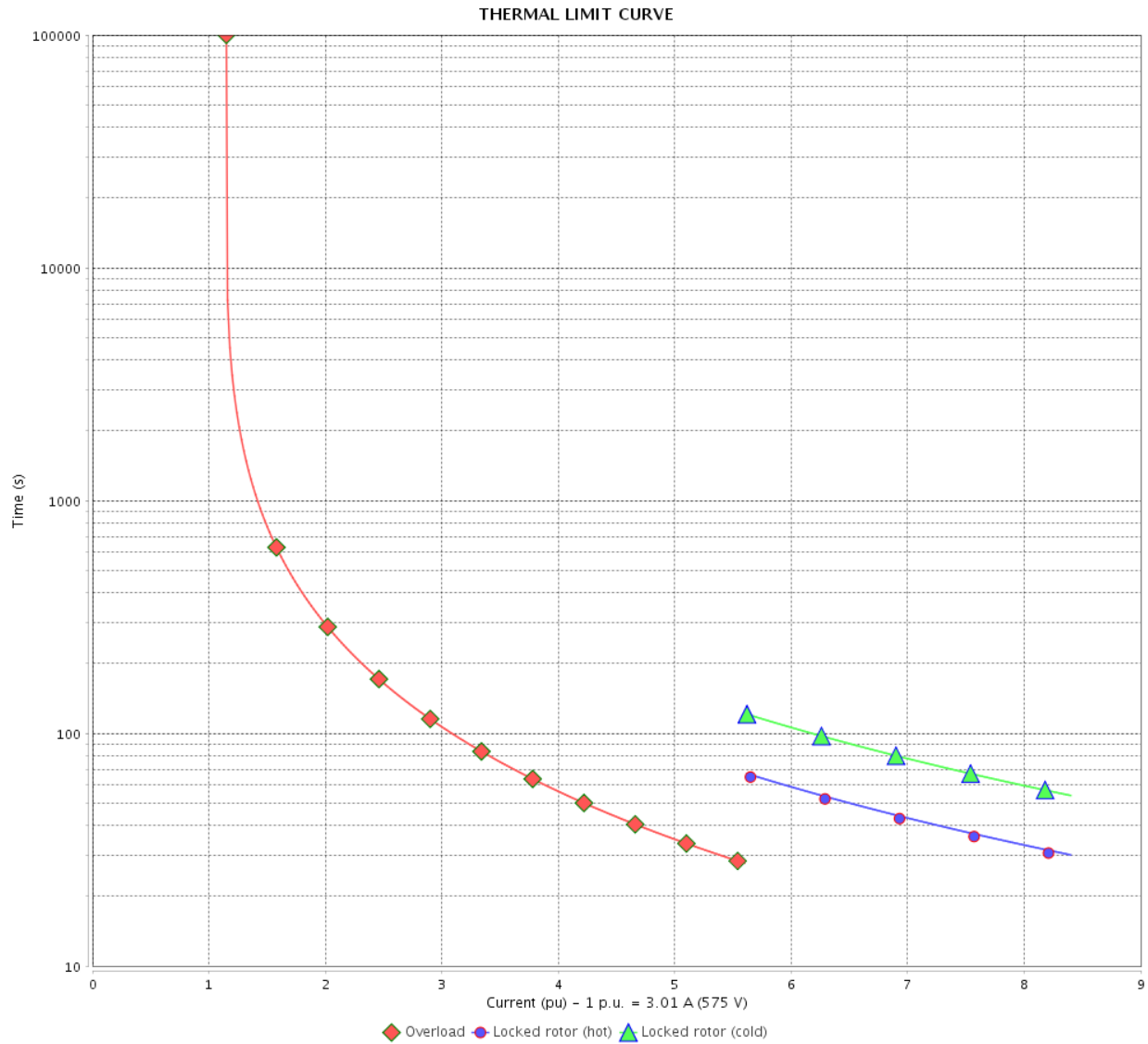
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THERMAL LIMIT CURVE

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

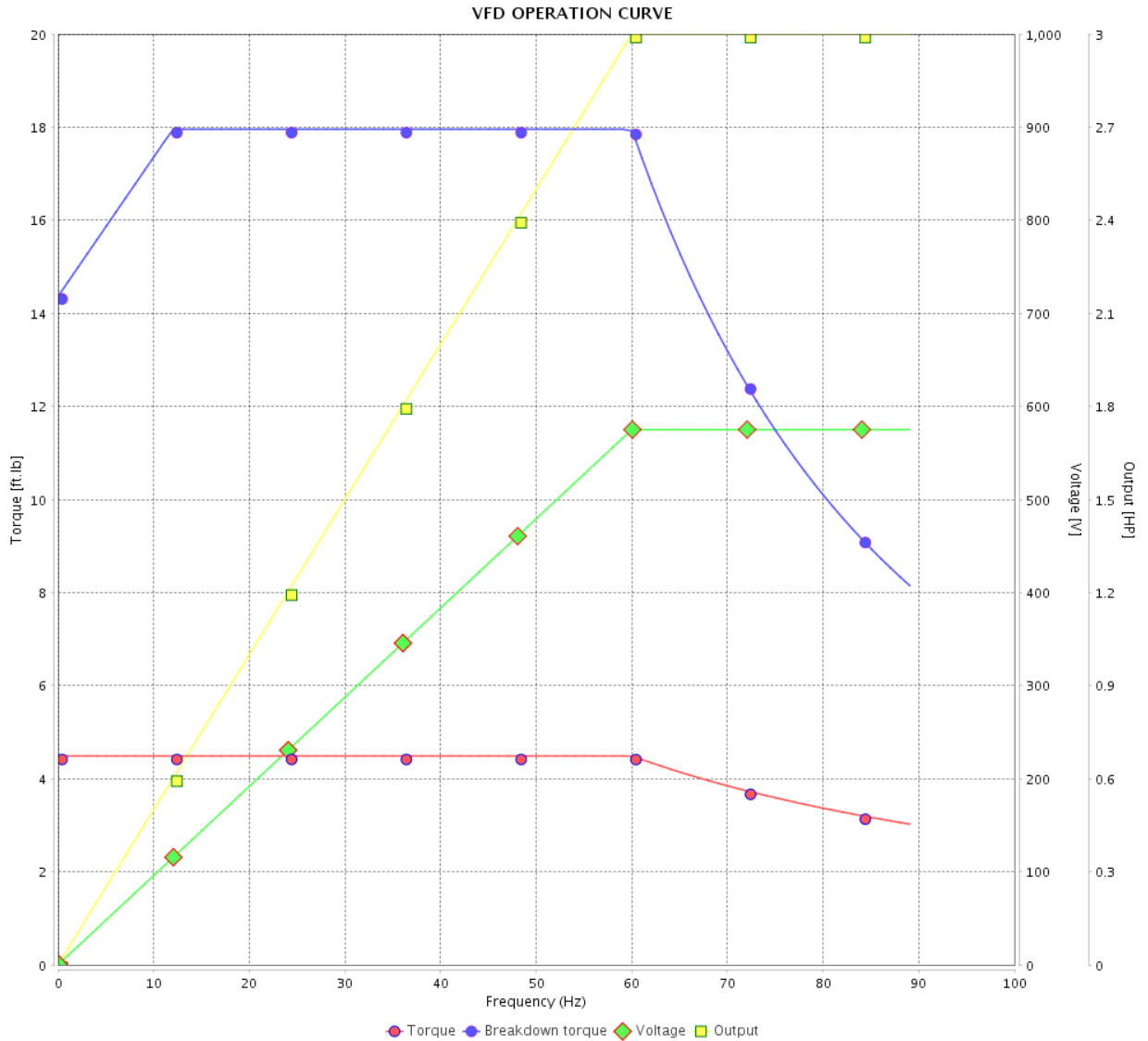


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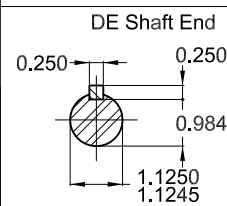
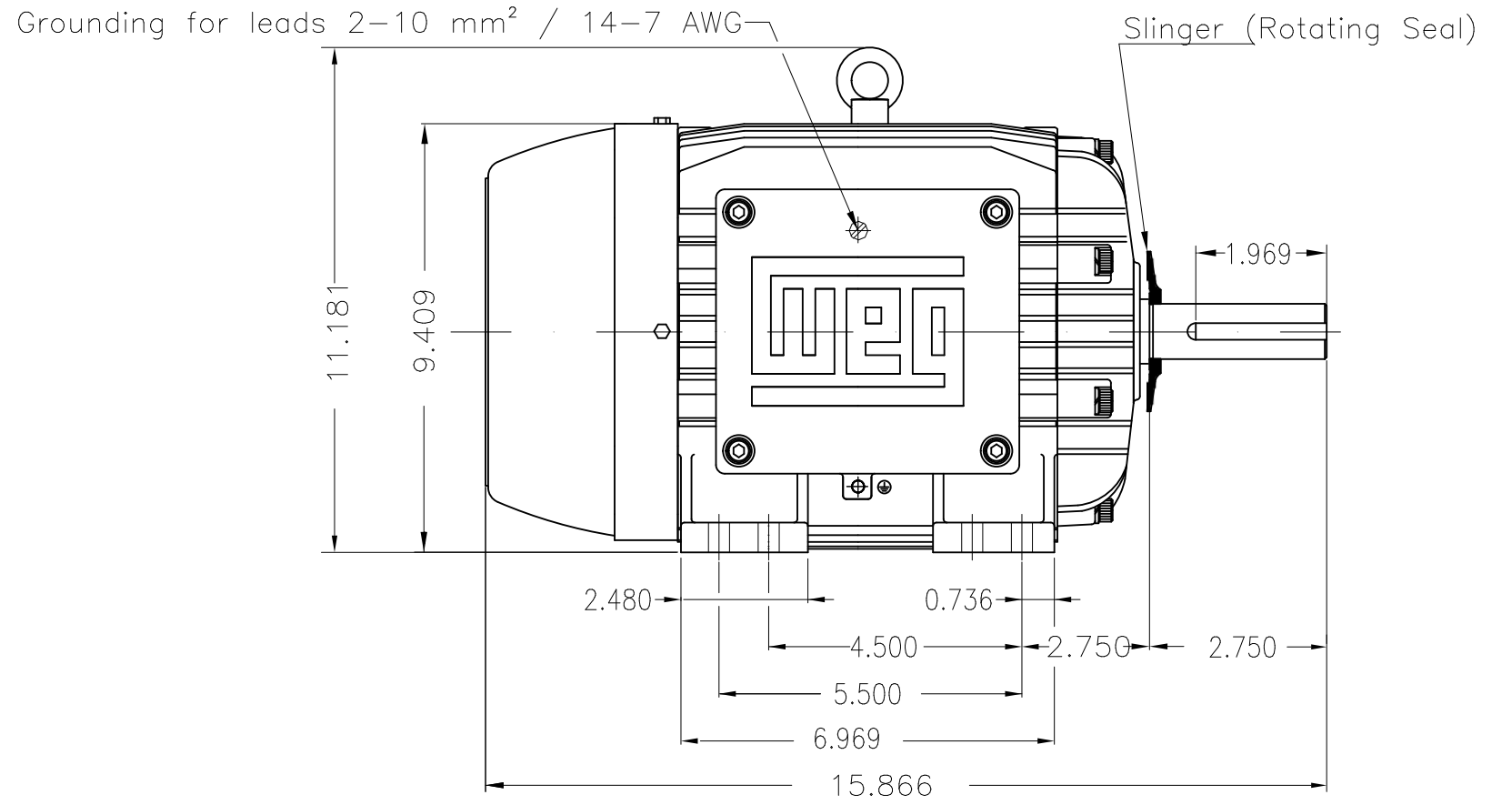
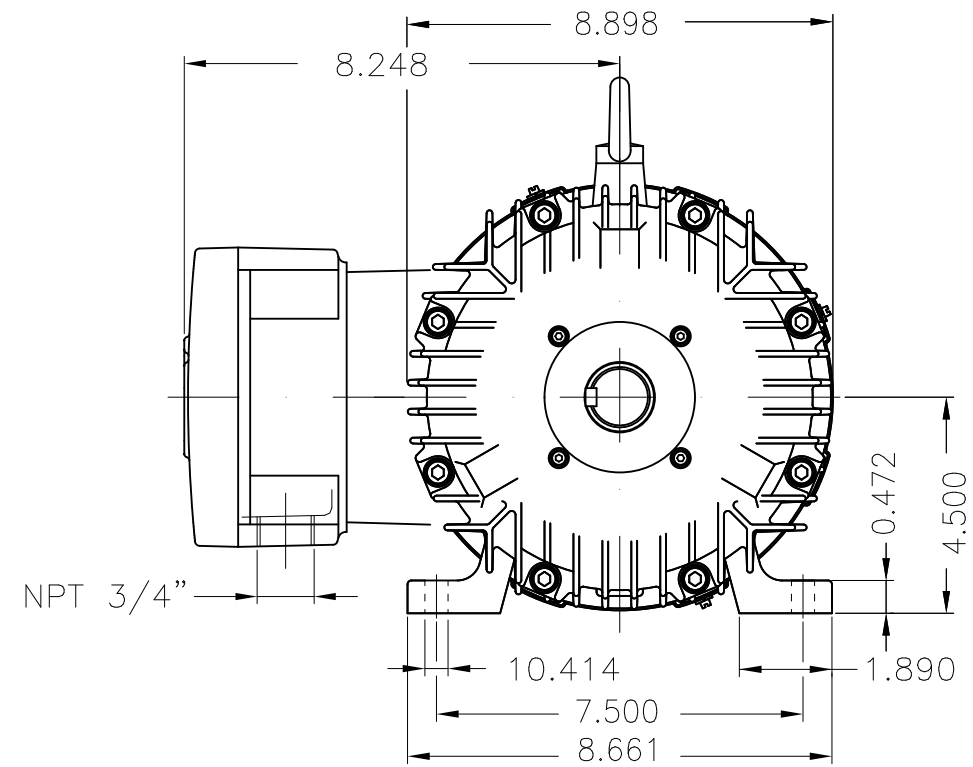


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Color RAL 5009
 Painting plan 202P
 Mounting NEMA F-1
 Mounting B3R(D)

3 HP 02 Poles 60 Hz

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR EXPLOSION PROOF PREM. EFF.					
CHECKED		FRAME 182/4T IP55 TEFC					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering				

PREVIEW
 WDD



SHEET 1 / 1

MADE IN BRAZIL

**W21X NEMA**
Premium

14441997

CC029A

Inverter Duty Motor
Severe Duty

LISTED

MODEL 00336XT3H182T

PH 3 | FR 182/4T

HP(kW) 3.0(2.2)

HZ 60

IP55

V 575

A 3.01

RPM 3510

NEMA NOM EFF 86.5%

PF 0.85

SFA 3.46

DES B

INS CL F Δ T 80 K | SF 1.15

ENCL TEFC

DUTY CONT.

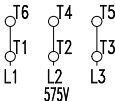
CODE K

ALT 1000

m.a.s.l.

AMB 40°C

AMB 55°C SF1.0


 → 6307-2RS MOBIL POLYREX EM
 → 6206-2RS

121 Lbs


 TEMP CODE T3C
 CSA/UL: Class I - Div. 1 - Groups C and D
 CSA: Class II - Div. 1 - Groups F and G
 CSA: Class I - Zone 1 - IIB

EXPLOSION PROOF MOTOR

FOR USE ON VPWM VFD 1000:1VT, 20:1CT, 1.0SF, T3C, AMB 40°C.