

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	14369353			
		Catalog # :	00218XT3H145T			
Frame	: 143/5T	Locked rotor time	: 19s (cold) 11s (hot)			
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K			
Poles	: 4	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	: 2.23 A	Protection degree	: IP55			
L. R. Amperes	: 19.9 A	Cooling method	: IC411 - TEFC			
LRC	: 8.9x(Code L)	Mounting	: F-1			
No load current	: 1.28 A	Rotation ¹	: Both (CW and CCW)			
Rated speed	: 1750 rpm	Noise level ²	: 51.0 dB(A)			
Slip	: 2.78 %	Starting method	: Direct On Line			
Rated torque	: 6.00 ft.lb	Approx. weight ³	: 73.0 lb			
Locked rotor torque	: 270 %					
Breakdown torque	: 320 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.1595 sq.ft.lb					
Design	: B					
Output	25%	50%	75%	100%		
Efficiency (%)	82.9	84.0	85.5	86.5		
Power Factor	0.32	0.56	0.70	0.78		
				Foundation loads		
				Max. traction	: 131 lb	
				Max. compression	: 204 lb	
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6205 2RS		6204 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



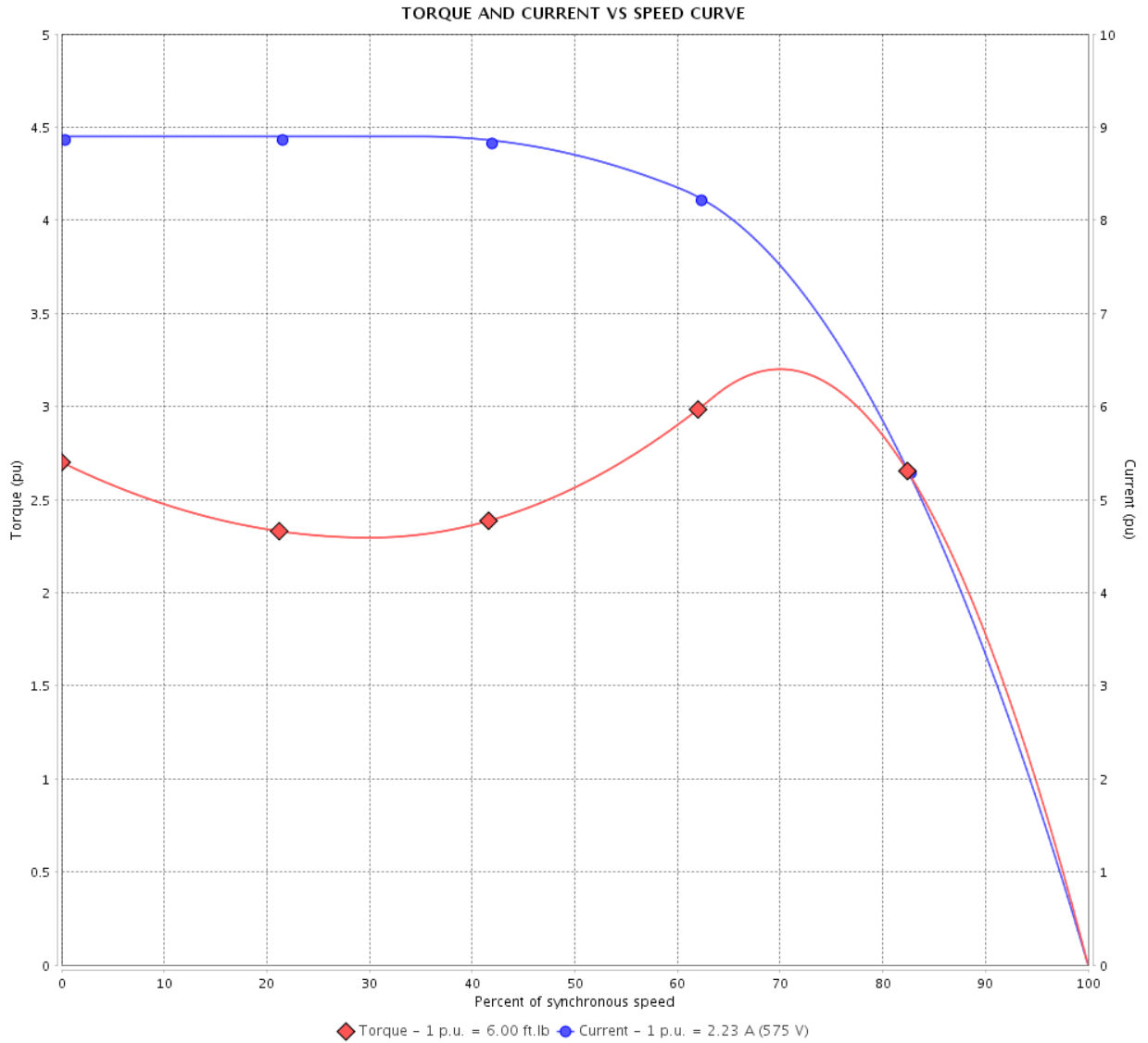
Three Phase Induction Motor - Squirrel Cage

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Product line : NEMA Premium Efficiency Three-Phase

Product code : 14369353

Catalog # : 00218XT3H145T



Performance : 575 V 60 Hz 4P

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LRC	: 8.9	Duty cycle	: Cont.(S1)
Rated torque	: 6.00 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

Locked rotor time : 19s (cold) 11s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



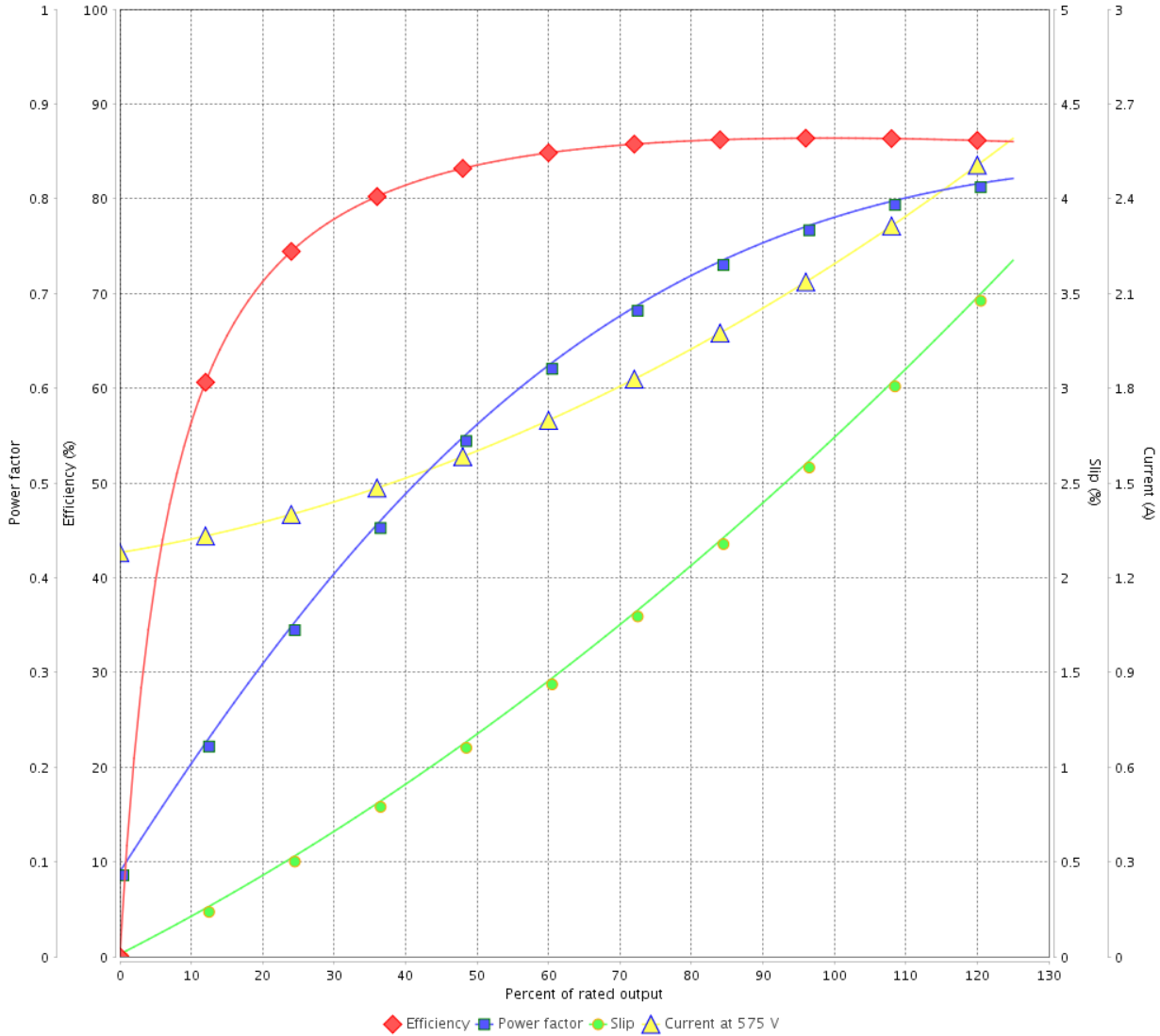
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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

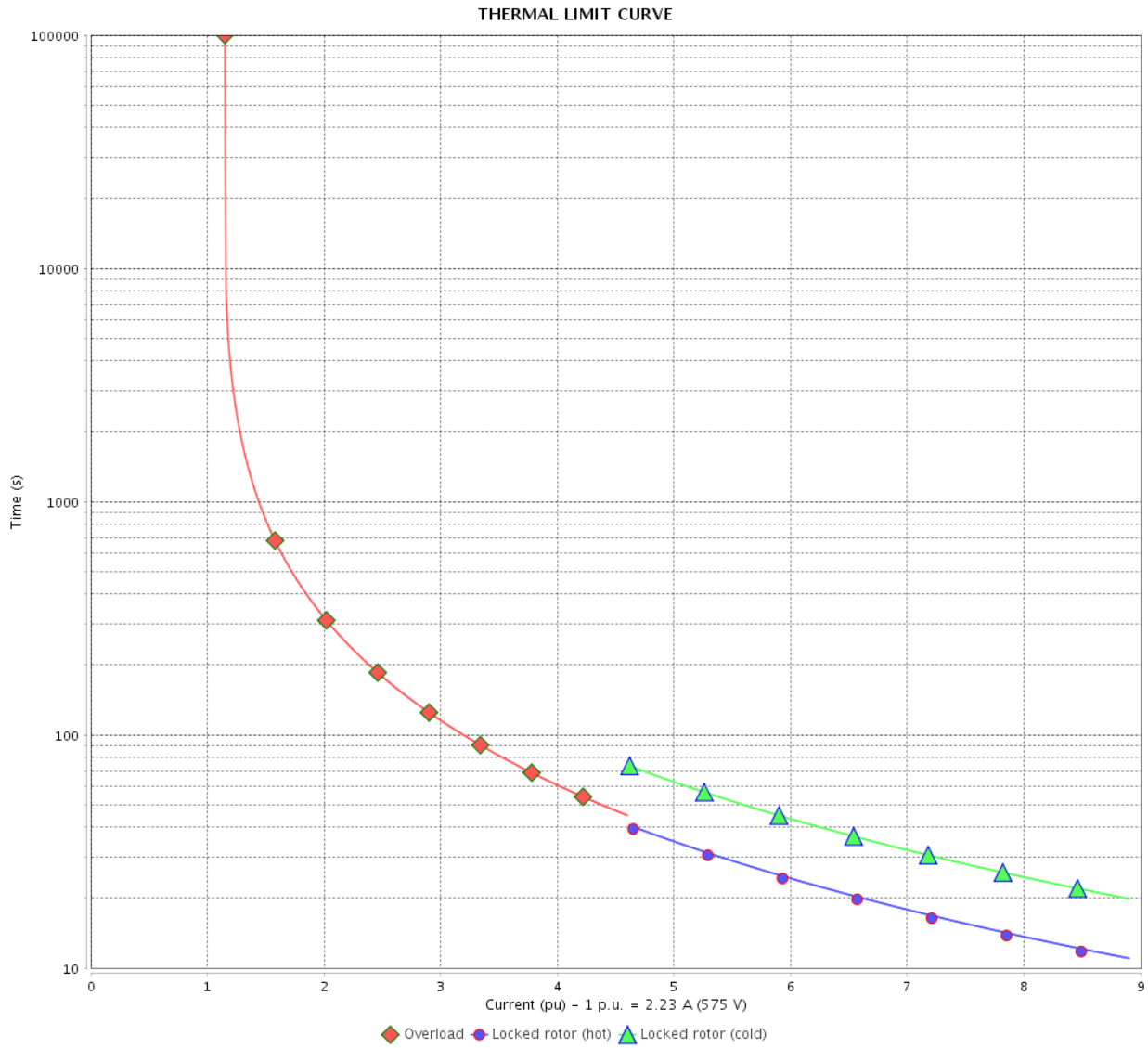
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

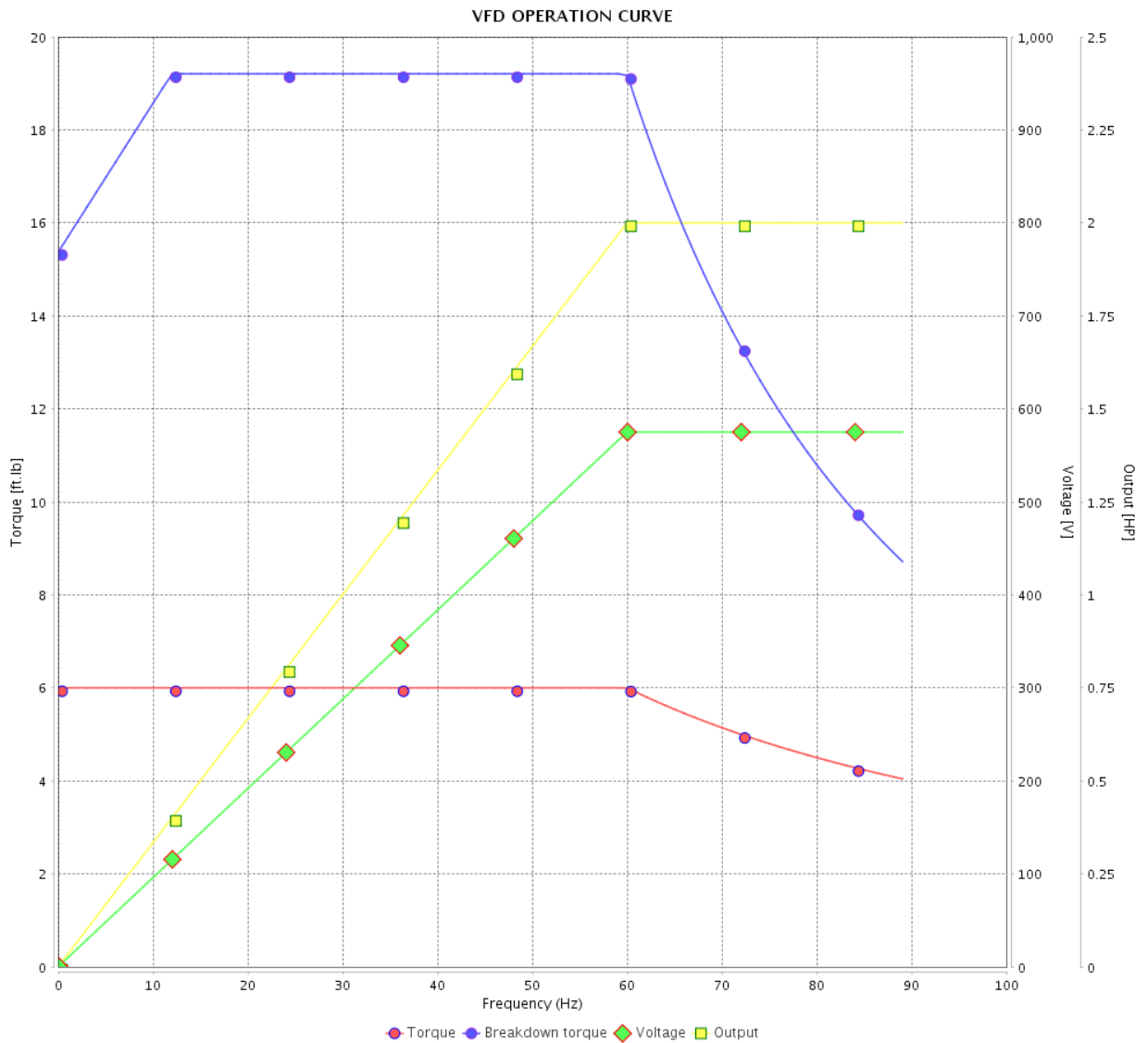


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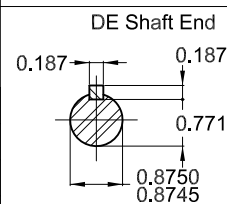
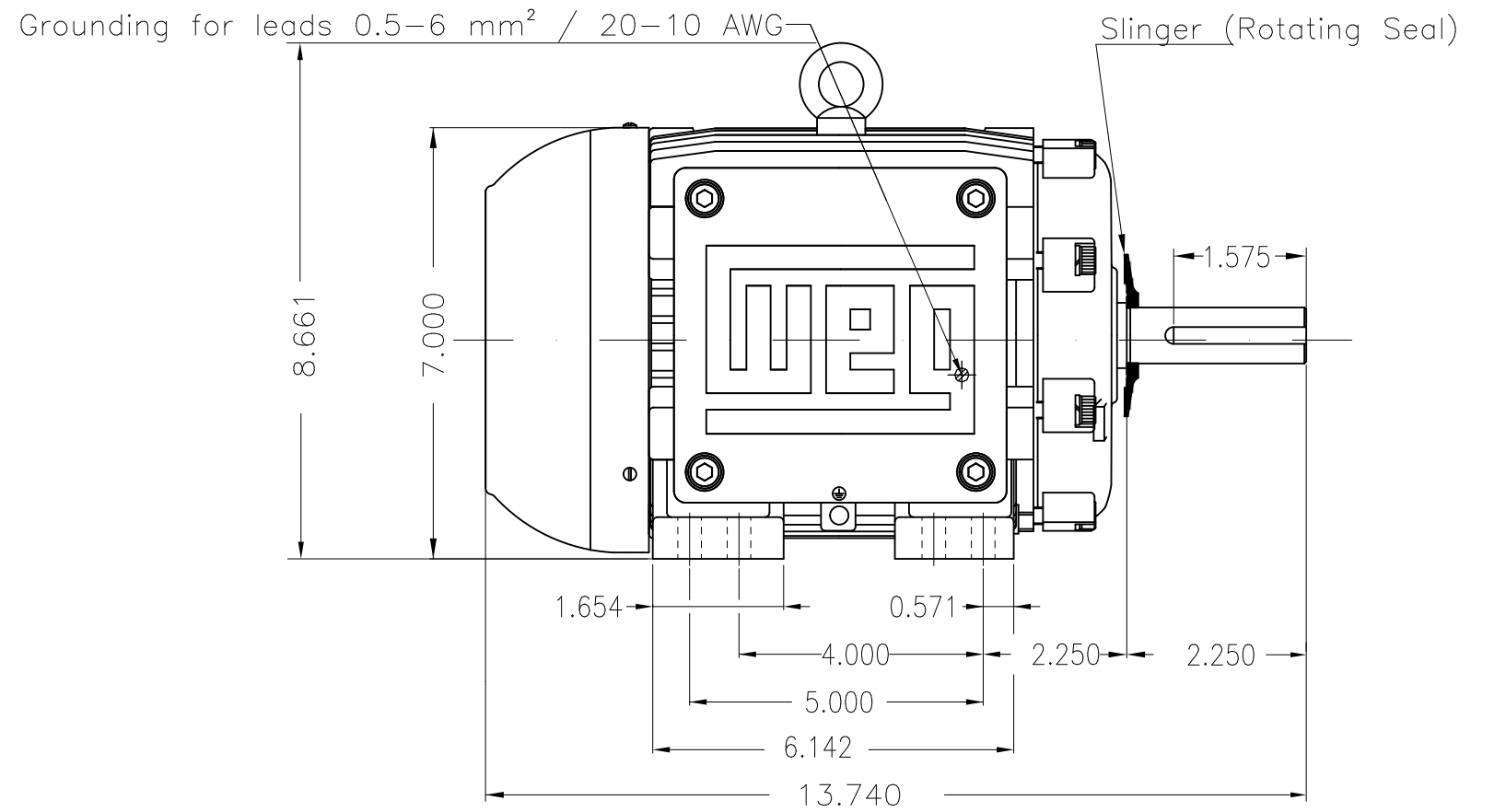
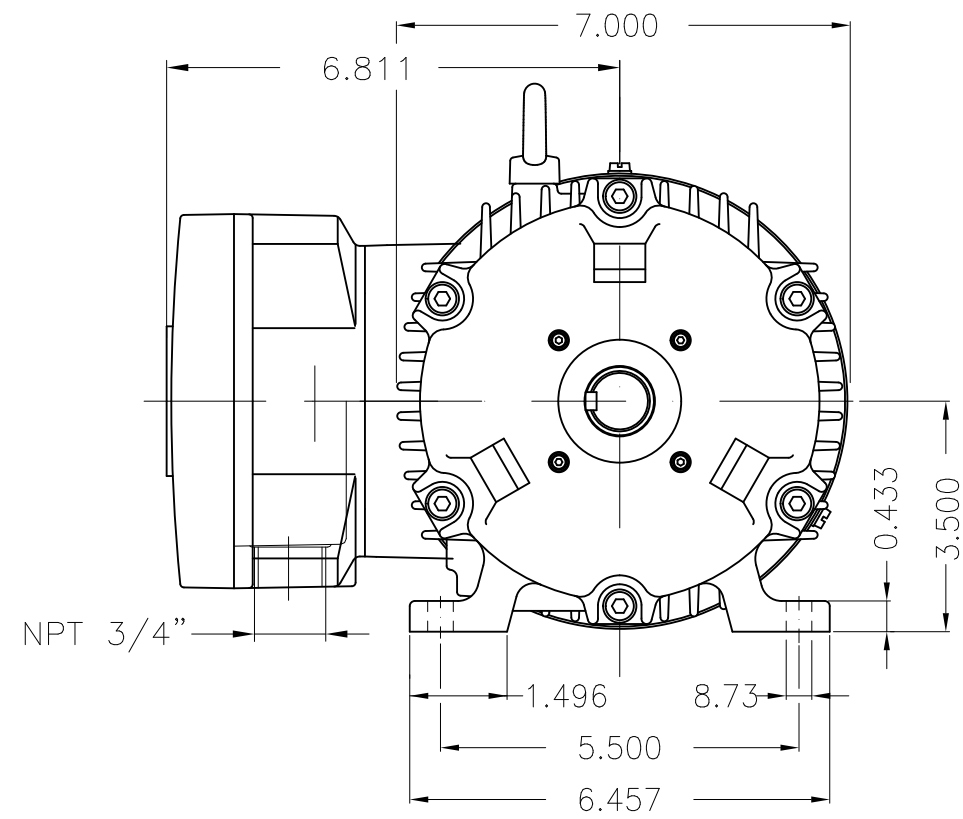


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Color RAL 5009
Painting plan 202P
Mounting NEMA F-1
Mounting B3R(D)

2 HP 04 Poles 60 Hz

Dimensions in inches

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR EXPLOSION PROOF PREM. EFF.					
CHECKED		FRAME 143/5T IP55 TEFC					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering				

PREVIEW
WDD



SHEET 1 / 1

MADE IN BRAZIL


W21X NEMA
Premium

14369353

CC029A

Inverter Duty Motor
Severe Duty


LISTED

MODEL 00218XT3H145T

PH 3 | FR 143/5T

HP(kW) 2.0(1.5)

HZ 60

IP55

V 575

A 2.23

RPM 1750

NEMA NOM EFF 86.5%

PF 0.78

SFA 2.56

DES B

INS CL F Δ T 80 K | SF 1.15

ENCL TEFC

DUTY CONT.

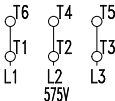
CODE L

ALT 1000

m.a.s.l.

AMB 40°C

AMB 55°C SF1.0



→ 6205-2RS MOBIL POLYREX EM

→ 6204-2RS

73 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.