

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase Product code : 14272876
 Catalog # : 25036OT3H445TS-W40

Frame	: 444/5TS	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 250 HP (185 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	: 222 A	Protection degree	: IP23
L. R. Amperes	: 1490 A	Cooling method	: IC01 - ODP
LRC	: 6.7x(Code G)	Mounting	: F-1
No load current	: 57.6 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3570 rpm	Noise level ²	: 85.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 368 ft.lb	Approx. weight ³	: 1376 lb
Locked rotor torque	: 150 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 26.9 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	93.0	93.6	94.5	95.0	Max. traction	: 1567 lb
Power Factor	0.56	0.79	0.85	0.88	Max. compression	: 2942 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6212 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	14418 h	20000 h
Lubricant amount	:	27 g	13 g
Lubricant type	:	Mobil Polyrex EM	

Notes

<p>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.</p>	<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



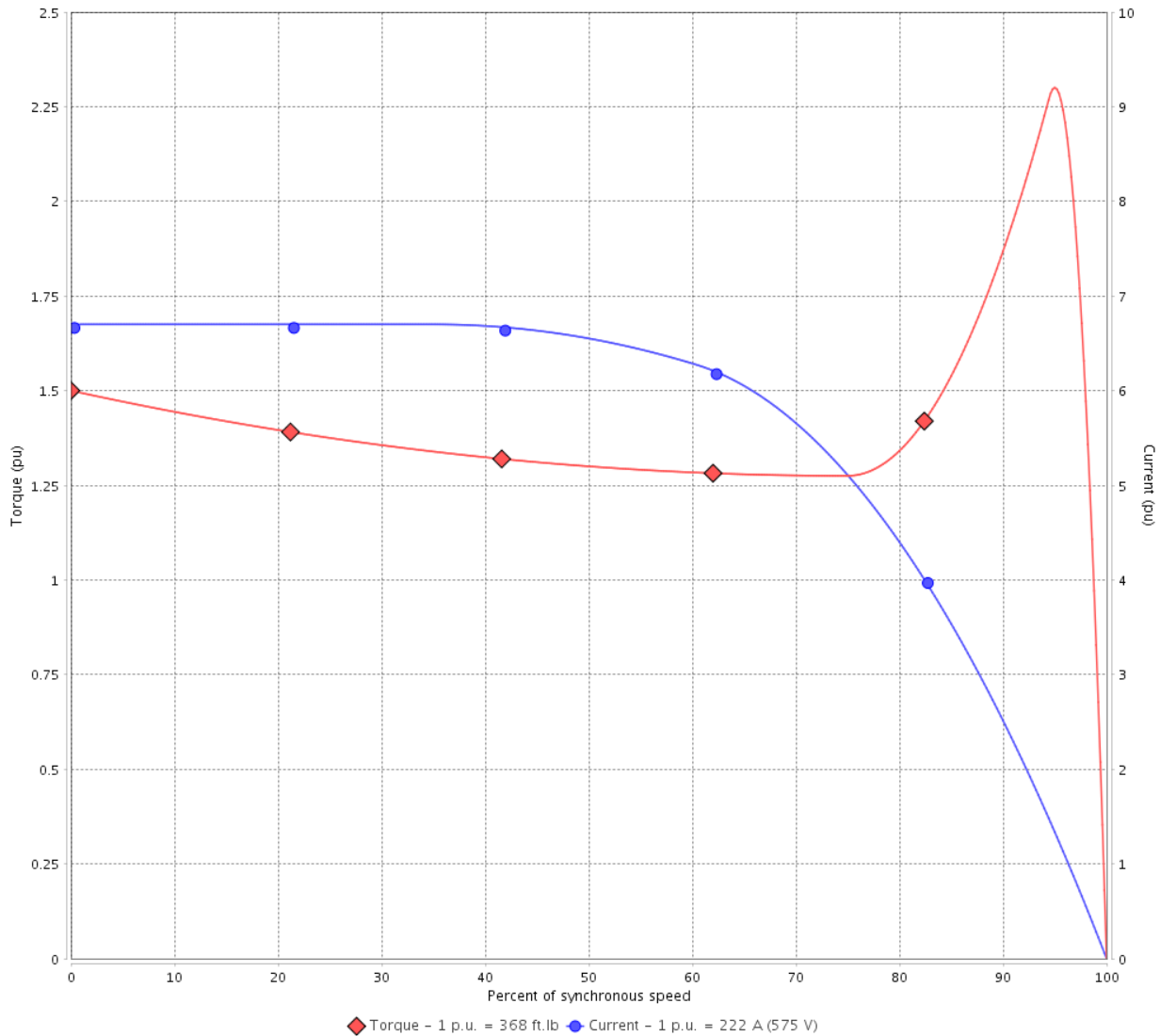
Customer :

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Three-Phase

Product code : 14272876

Catalog # : 25036OT3H445TS-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 2P

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Rated torque	: 368 ft.lb	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 3570 rpm	Design	: B

Locked rotor time : 28s (cold) 16s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

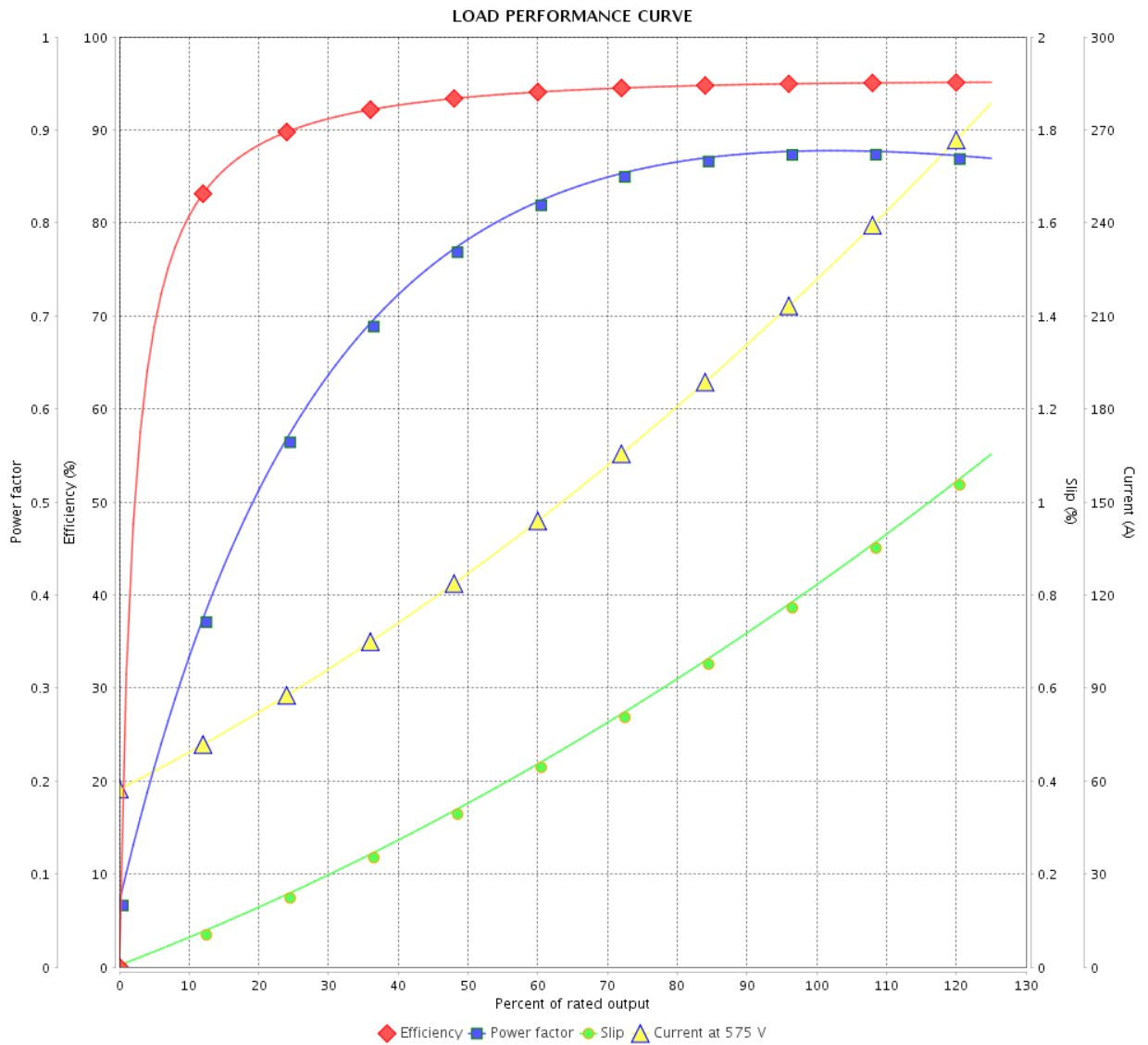


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THERMAL LIMIT CURVE

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Heating constant

Cooling constant

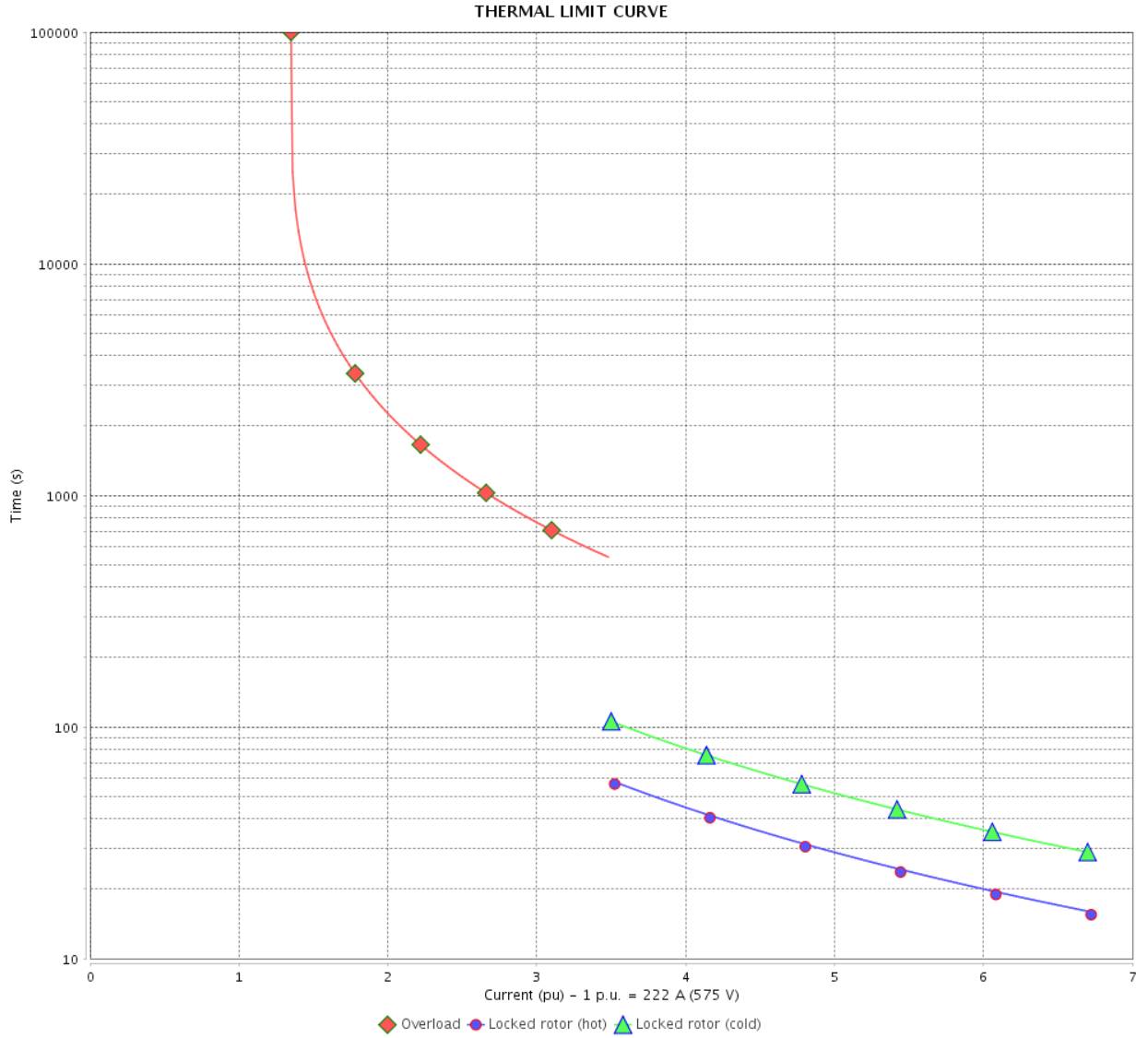
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



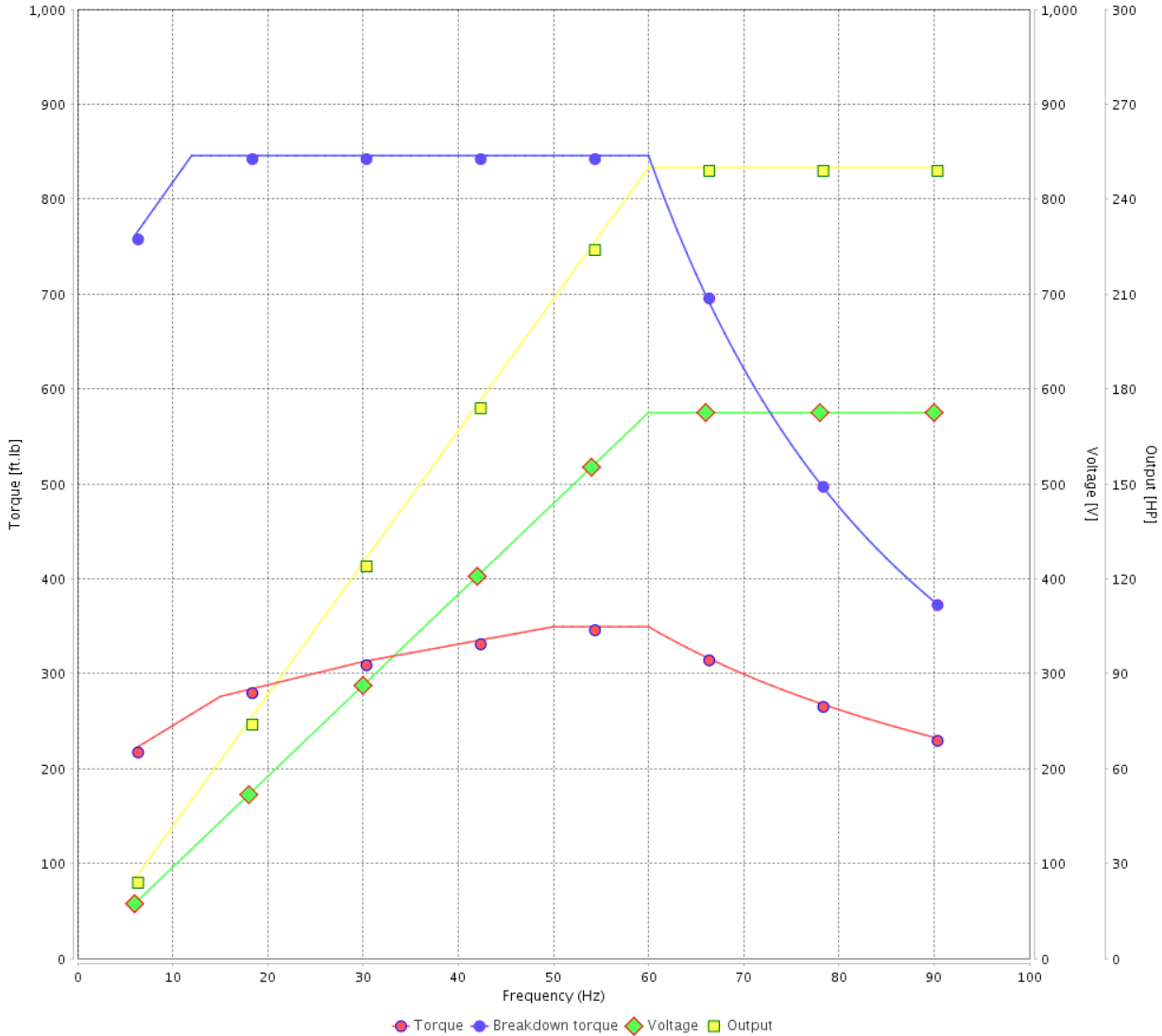
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VFD OPERATION CURVE

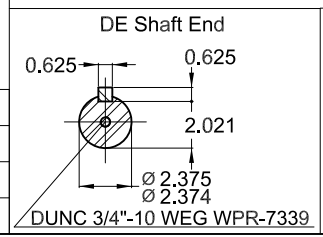
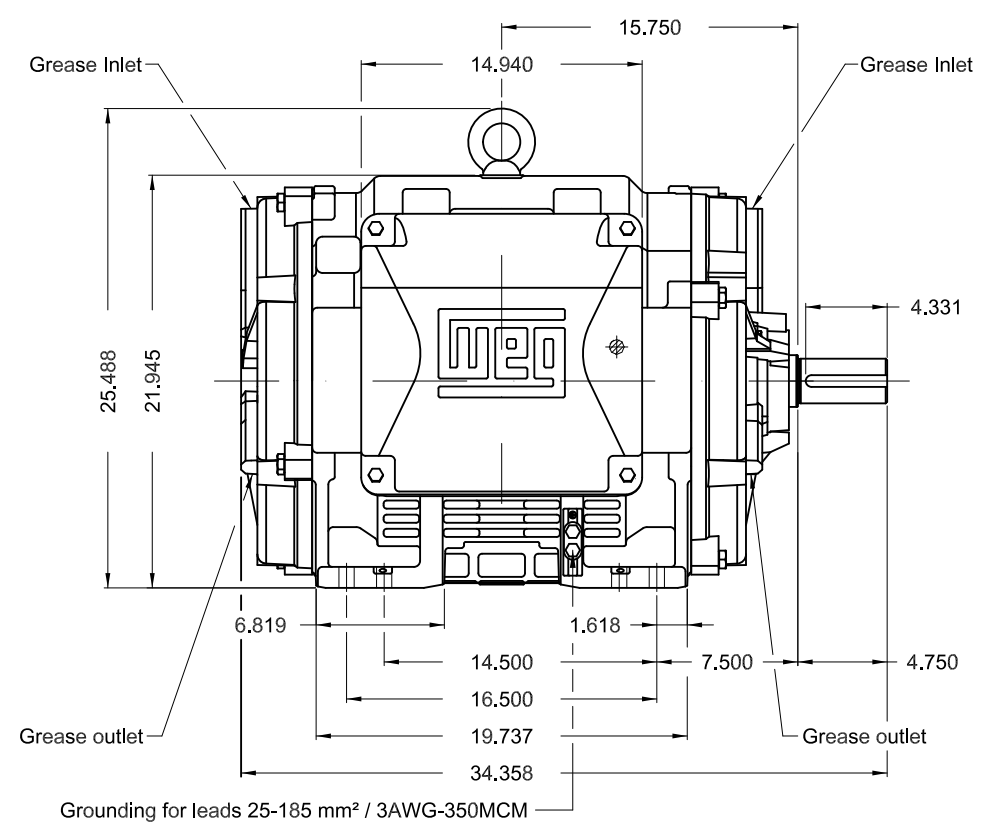
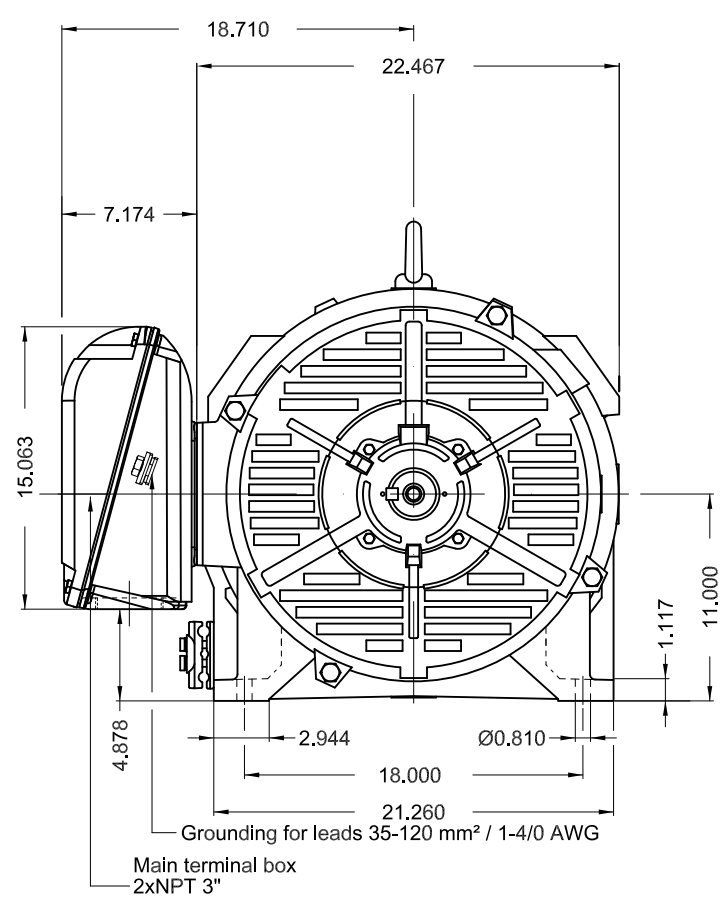


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Color RAL 5009
 Painting plan 203A
 Mounting NEMA F-1
 Mounting B3R(D)

250 HP 02 Poles 60 Hz A

1:10

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR W40 PREM. EFF.					
CHECKED		FRAME 444/5TS IP23 ODP					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1		

PREVIEW
WDD



MODEL 250360T3H445TS-W40
MADE IN BRAZIL
14272876

WEG **W40 NEMA**
CC029A Premium
Inverter Duty Motor

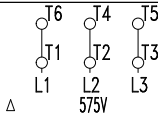


MOD.T01#FOXON



For use on PWM, VT 1000:1, CT 2:1, 1.0SF

PH 3	FR 444/5TS	HP(kW) 250(185)	Hz 60
V 575	A 222	IP23	
NEMA NOM EFF	95.0 %	RPM 3570	
ENCL ODP	DUTY CONT.	INS. CL. F Δ T 80 K	
PF 0.88	DES B	CODE G	AMB. 40°C
SF 1.15	SFA 255	ALT 1000 m.a.s.l.	



→ 6314-C3(27g)
→ 6212-Z-C3(13g)

MOBIL POLYREX EM
14418 h

1376 Lbs