



# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



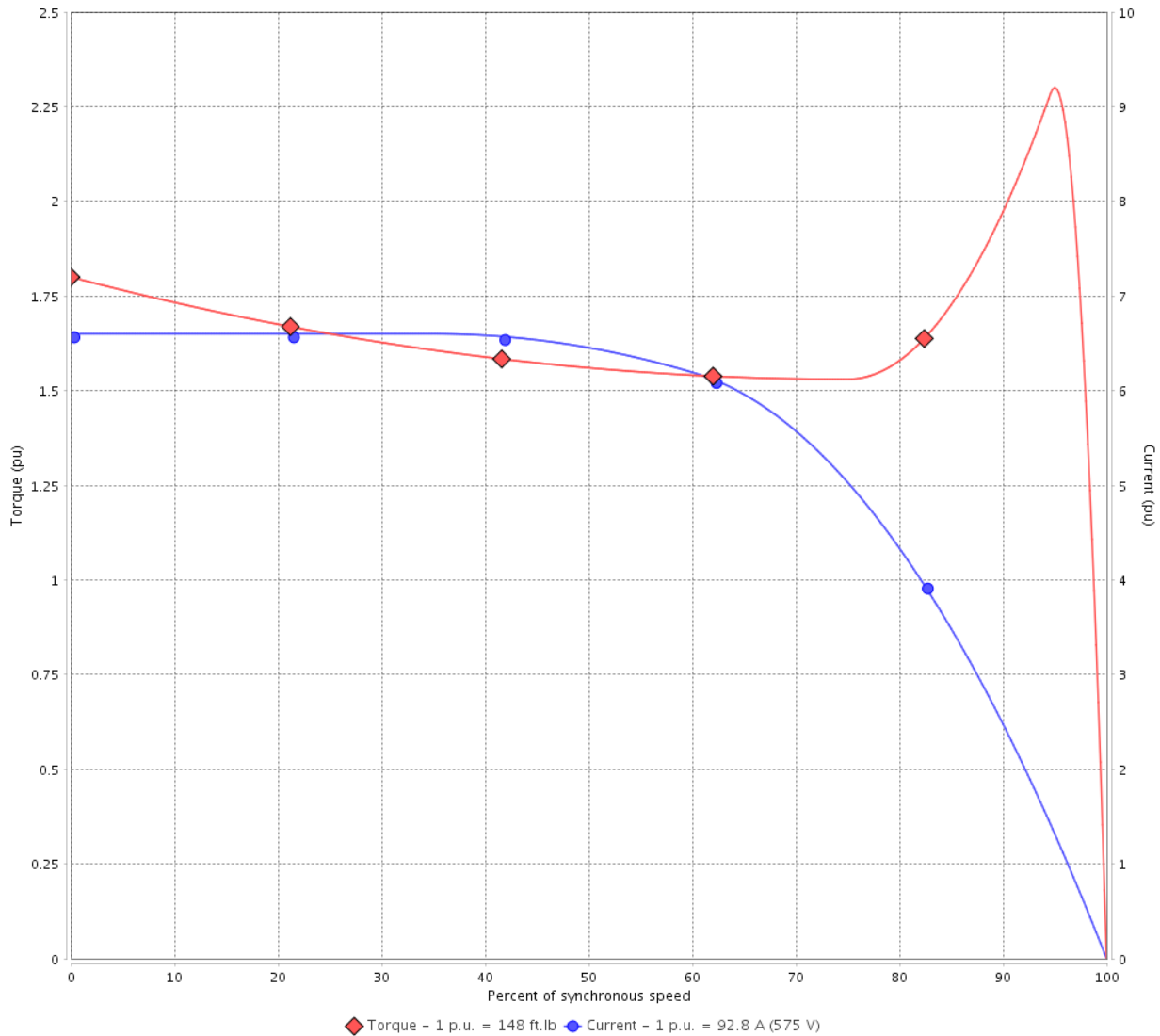
Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14272480

Catalog # : 100360T3H365TS-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 92.8 A	Moment of inertia (J)	: 7.20 sq.ft.lb
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 148 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.25
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 3555 rpm	Design	: B

Locked rotor time : 23s (cold) 13s (hot)

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Checked by				
Date	12/04/2022			

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

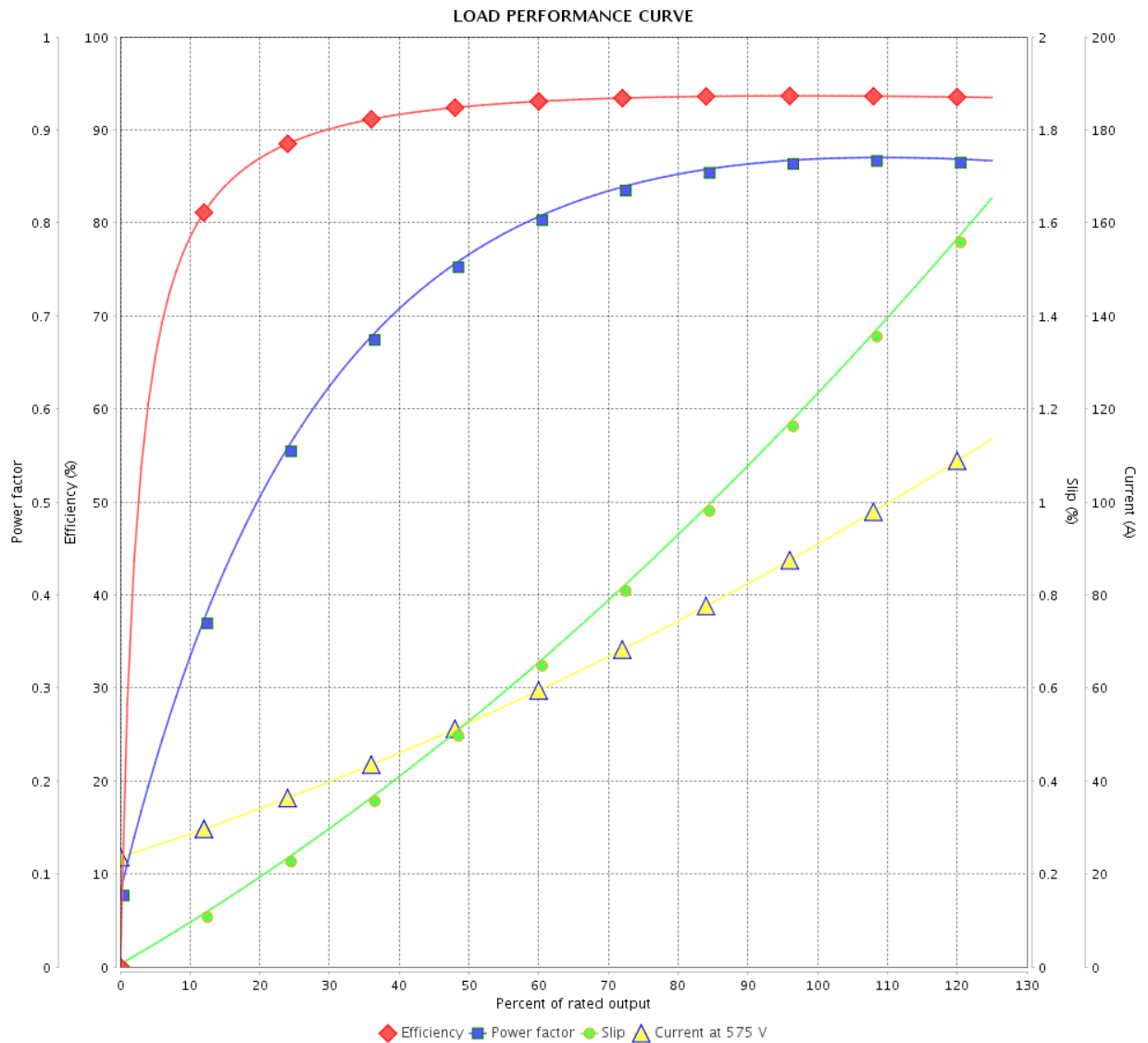


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 Design : B

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# THERMAL LIMIT CURVE



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Heating constant

Cooling constant

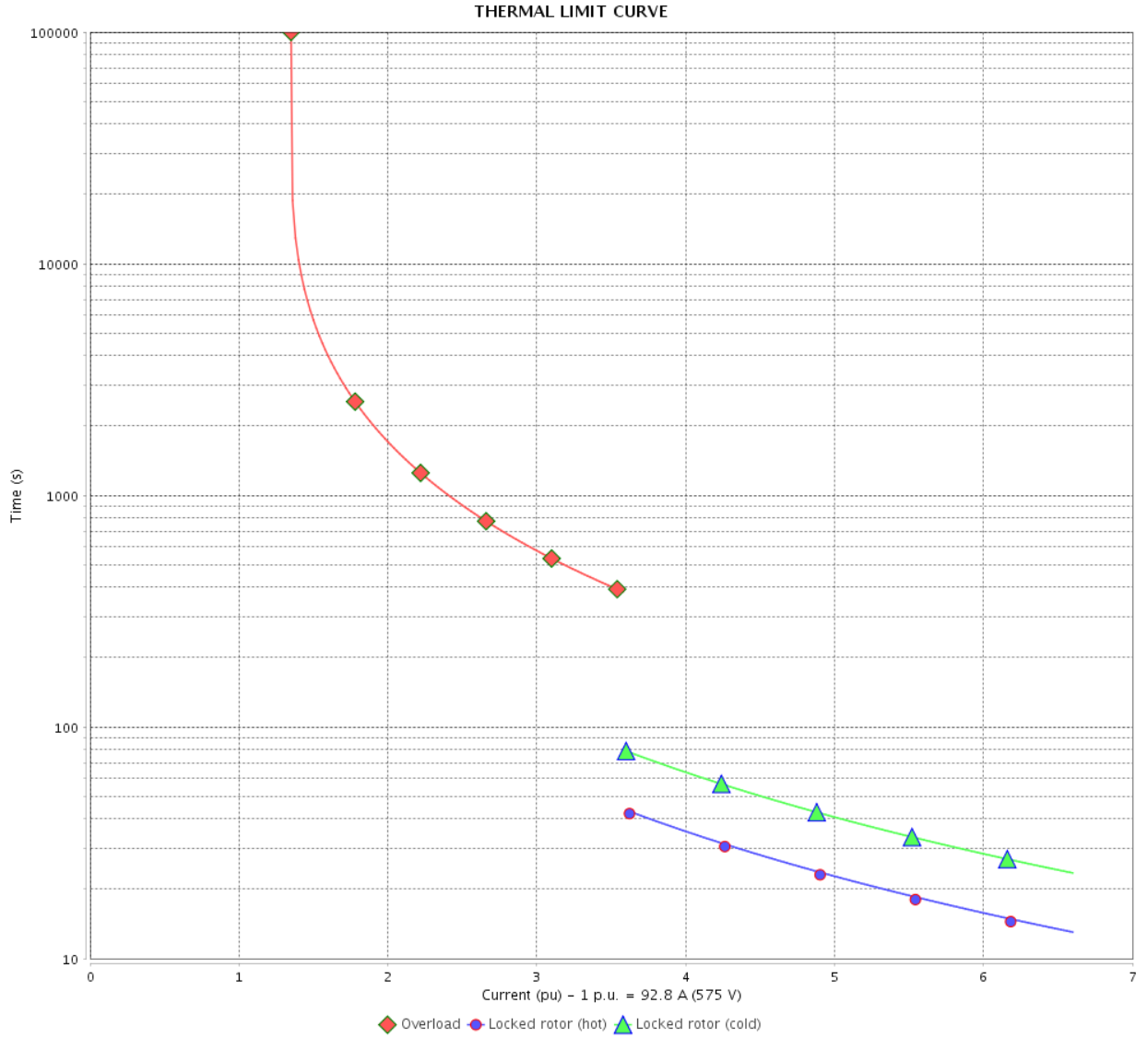
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Date	12/04/2022			

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_



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Date				

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



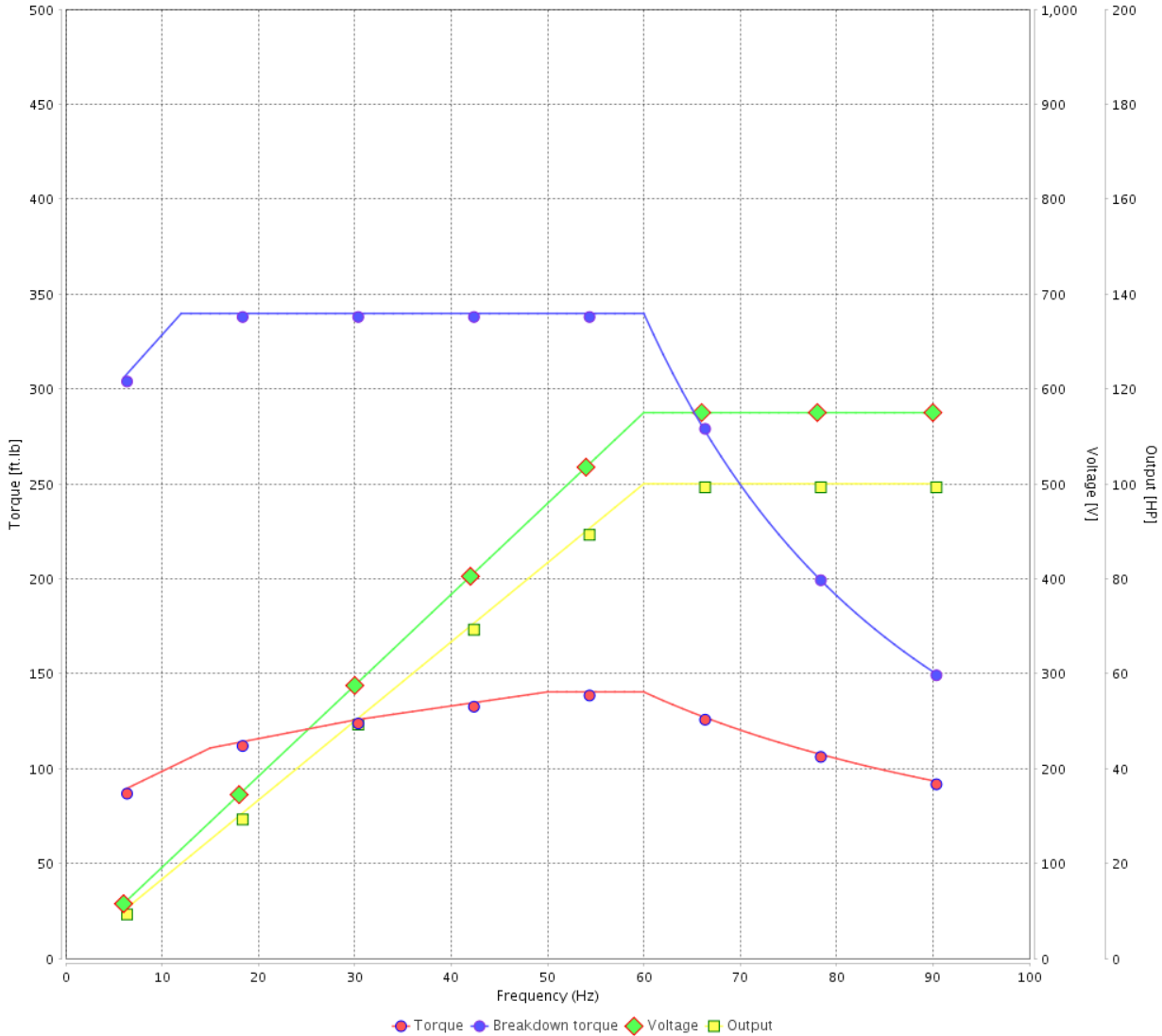
Customer : \_\_\_\_\_

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Three-Phase

Product code : 14272480

Catalog # : 10036OT3H365TS-W40

VFD OPERATION CURVE

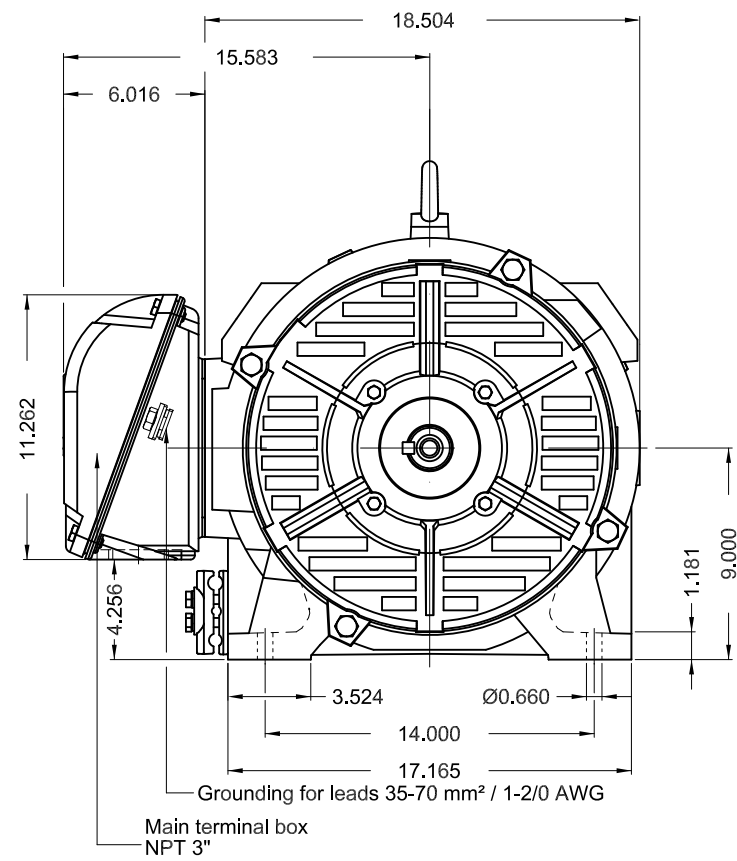


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Rated torque : 148 ft.lb  
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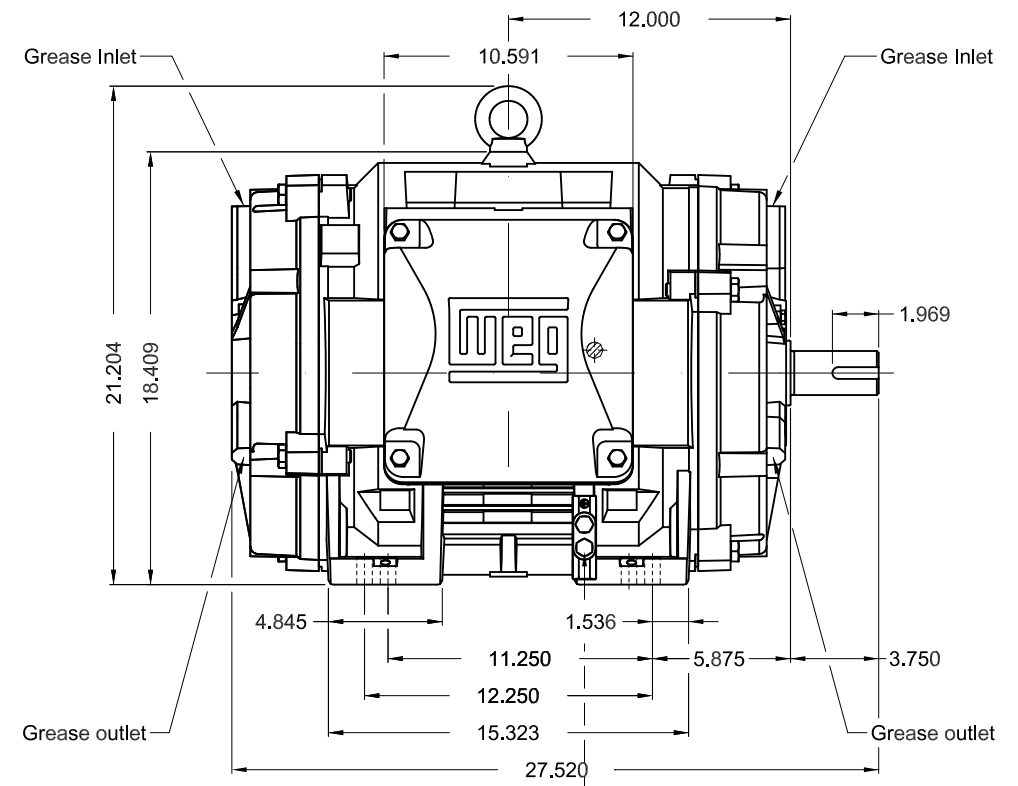
Moment of inertia (J) : 7.20 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
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Main terminal box  
NPT 3"

Grounding for leads 35-70 mm<sup>2</sup> / 1-2/0 AWG



Grounding for leads 25-185 mm<sup>2</sup> / 3AWG-350MCM

100 HP 02 Poles 60 Hz

A

1:8

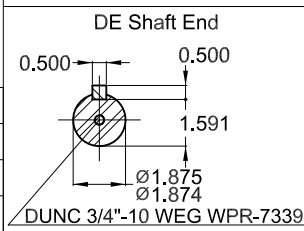
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWUSER	THREE PH. MOTOR W40 PREM. EFF.					
CHECKED		FRAME 364/5TS IP23 ODP					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering				

PREVIEW  
WDD



SHEET 1 / 1

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



DUNC 3/4"-10 WEG WPR-7339

MODEL 100360T3H365TS-W40  
MADE IN BRAZIL  
14272480

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

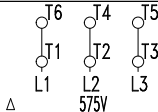


MOD.T01#FOXON



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

PH 3	FR 364/5TS	HP(kW) 100(75)		Hz 60
V 575		A 92.8		IP23
NEMA NOM EFF		93.6	%	RPM 3555
ENCL ODP	DUTY CONT.		INS. CL. F $\Delta$ T 80 K	
PF 0.87		DES B	CODE G	AMB. 40°C
SF 1.25	SFA 116		ALT 1000 m.a.s.l.	



→ 6314-C3(27g)  
→ 6212-Z-C3(13g)

MOBIL POLYREX EM  
14418 h

728 Lbs