



# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

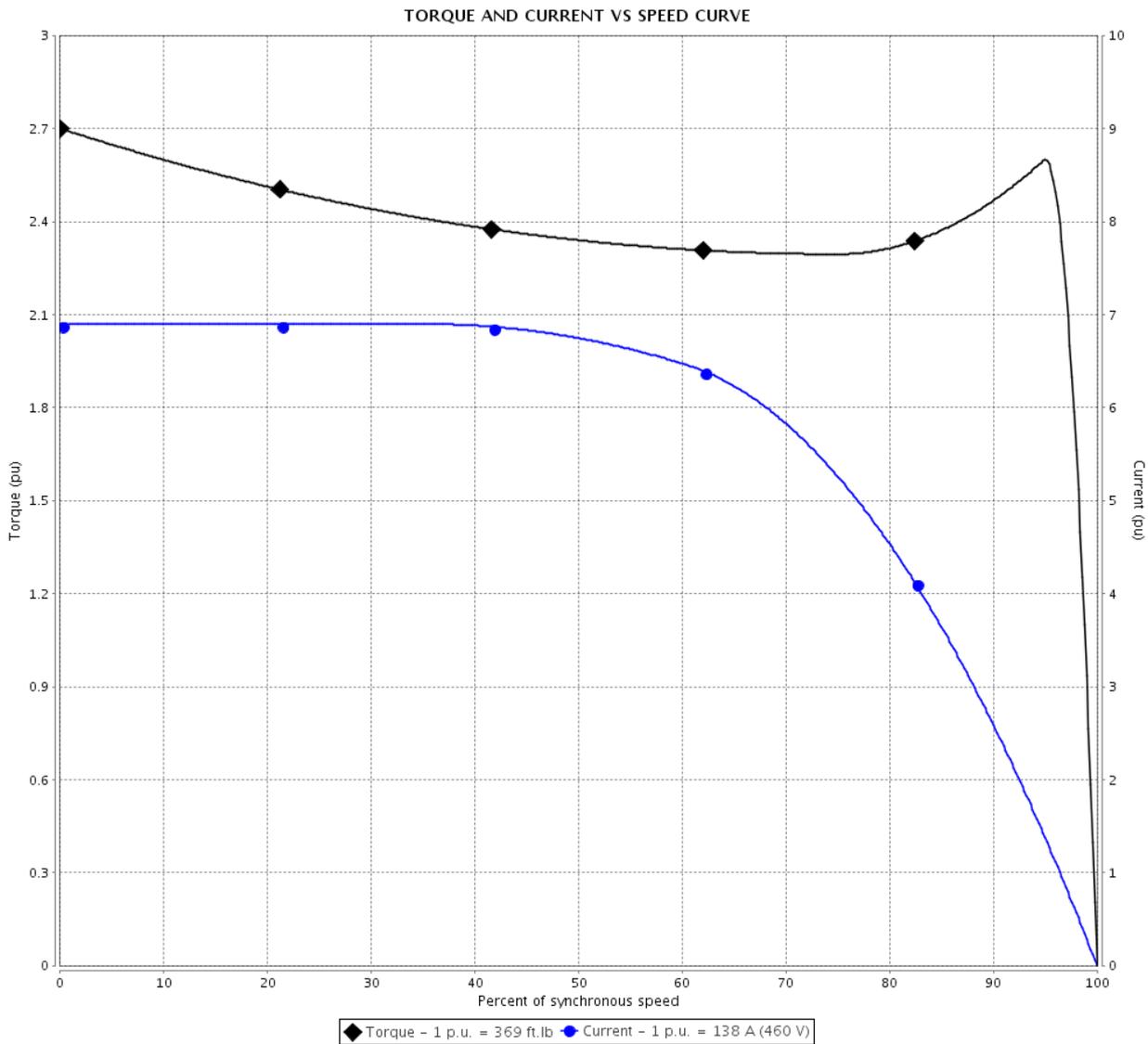


Customer :

Product line : W40 NEMA Premium Efficiency  
Three-Phase

Product code : 14284934

Catalog # : 12518OT3E405TSC-W40



Performance : 230/460 V 60 Hz 4P

Rated current	: 276/138 A	Moment of inertia (J)	: 25.5 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 369 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

Locked rotor time : 18s (cold) 10s (hot)

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Checked by				
Date	10/04/2020			

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

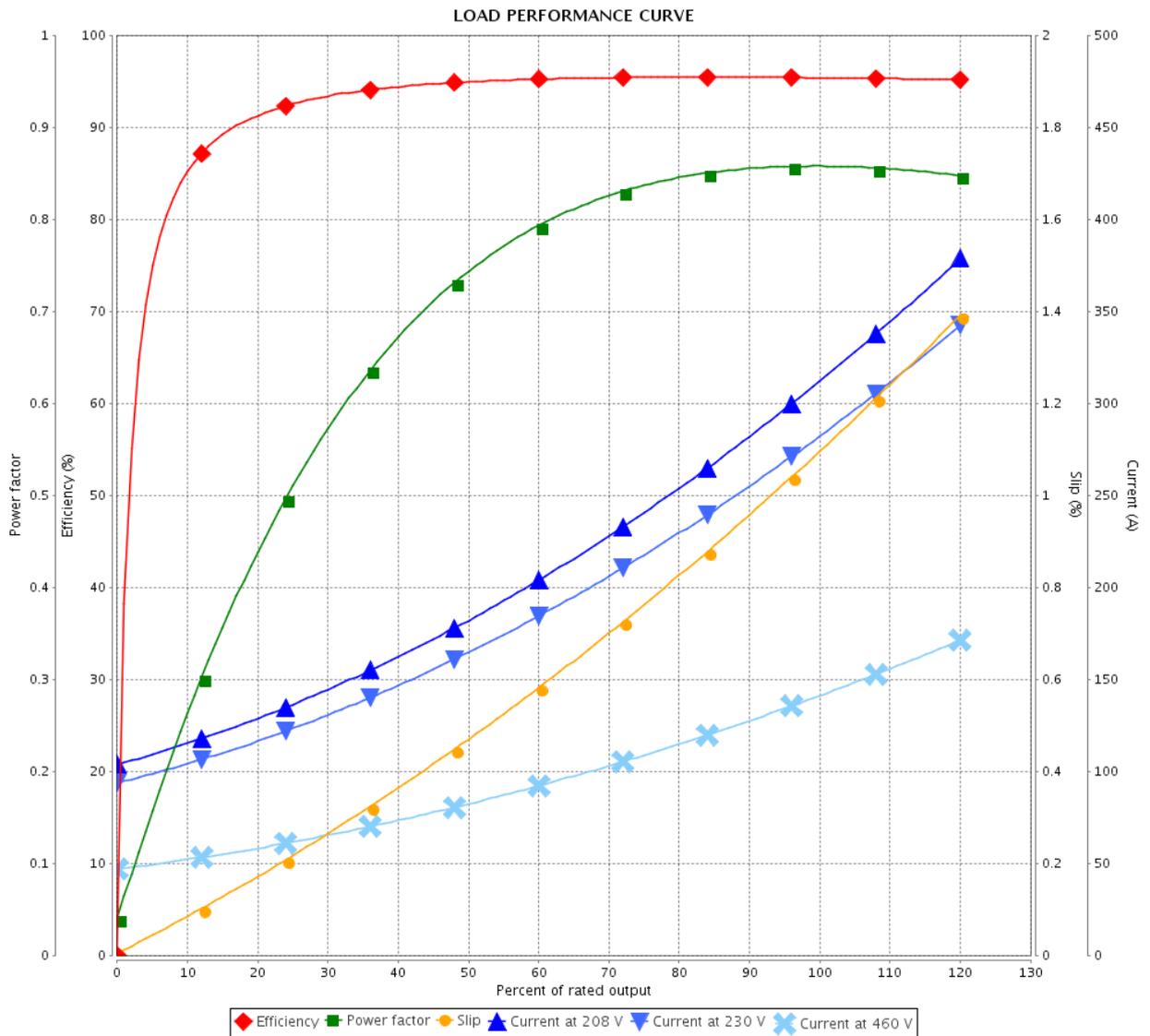


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Three-Phase

Product code : 14284934

Catalog # : 12518OT3E405TSC-W40



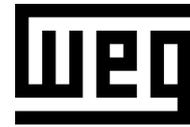
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 Design : B

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# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

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 Product code : 14284934  
 Catalog # : 12518OT3E405TSC-W40

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LRC : 6.9	Duty cycle : Cont.(S1)
Rated torque : 369 ft.lb	Insulation class : F
Locked rotor torque : 270 %	Service factor : 1.25
Breakdown torque : 260 %	Temperature rise : 80 K
Rated speed : 1780 rpm	Design : B

Heating constant

Cooling constant

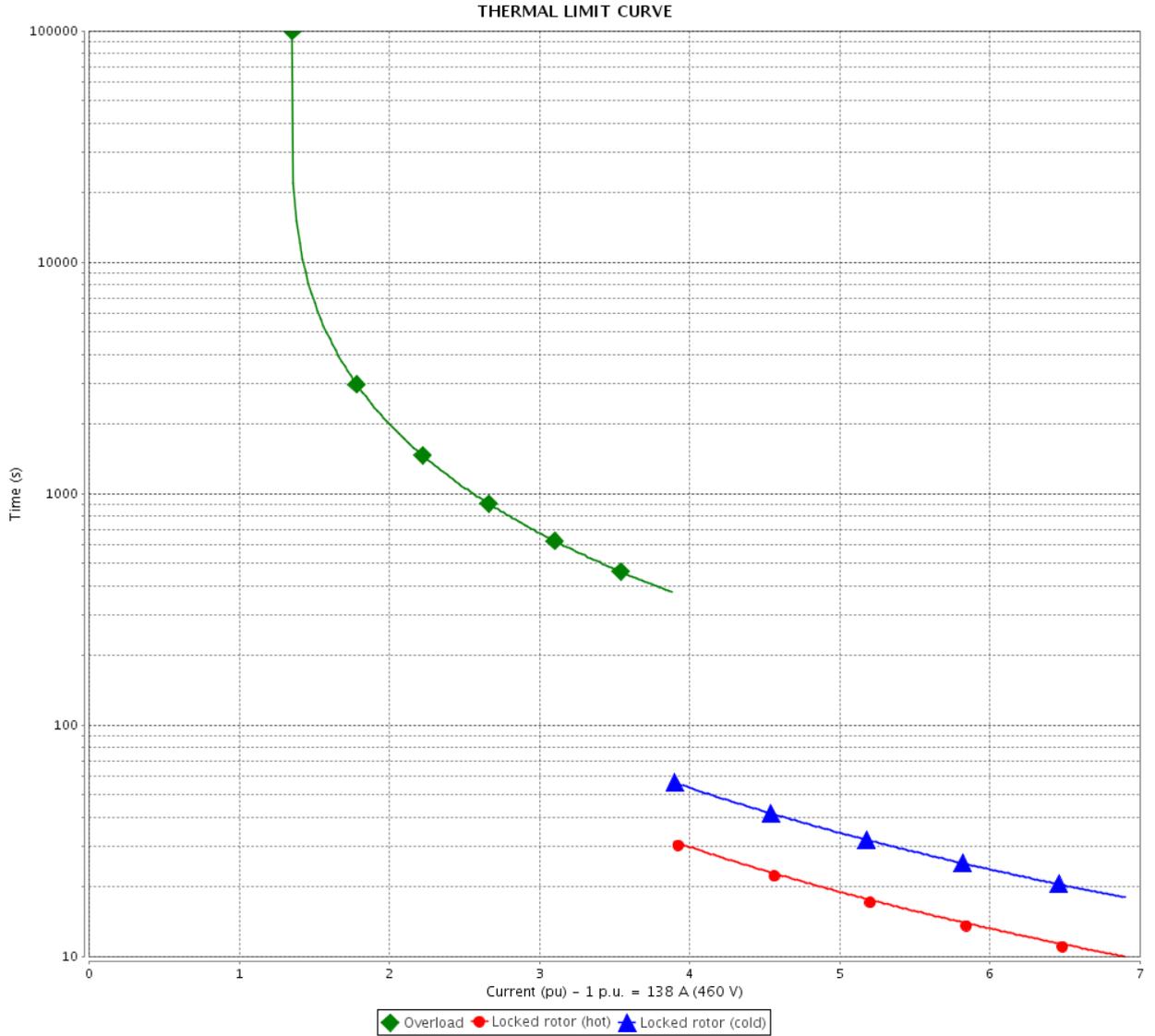
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date	10/04/2020			

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



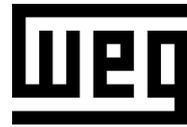
Customer : \_\_\_\_\_



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Date				

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

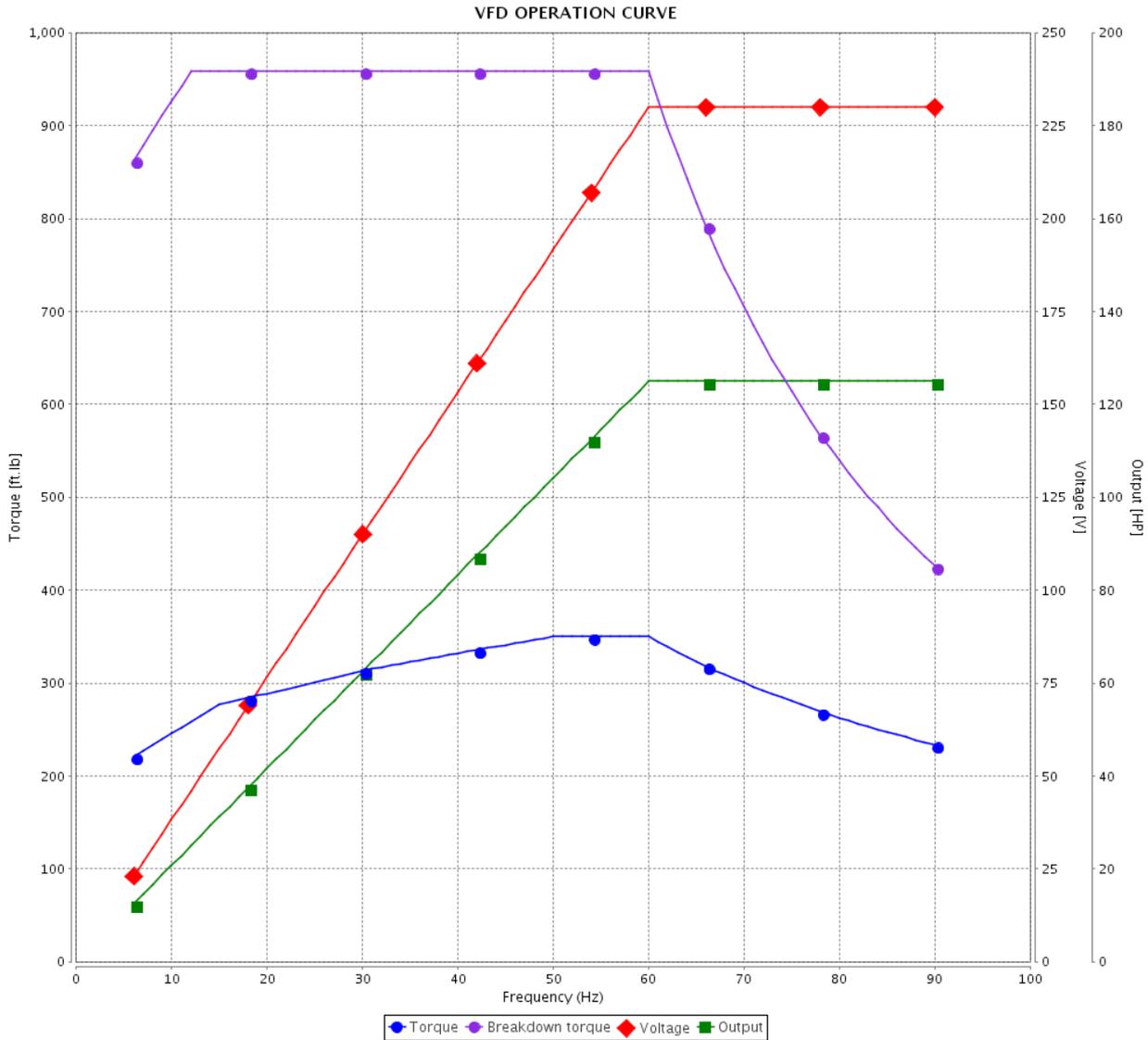


Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14284934

Catalog # : 12518OT3E405TSC-W40

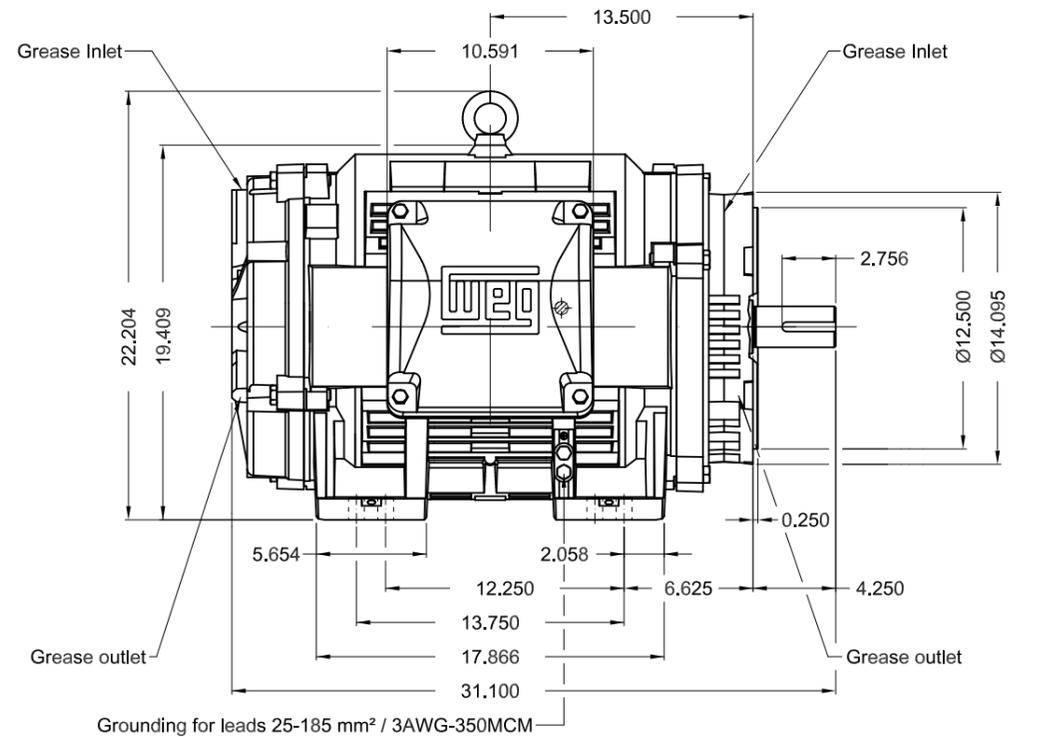
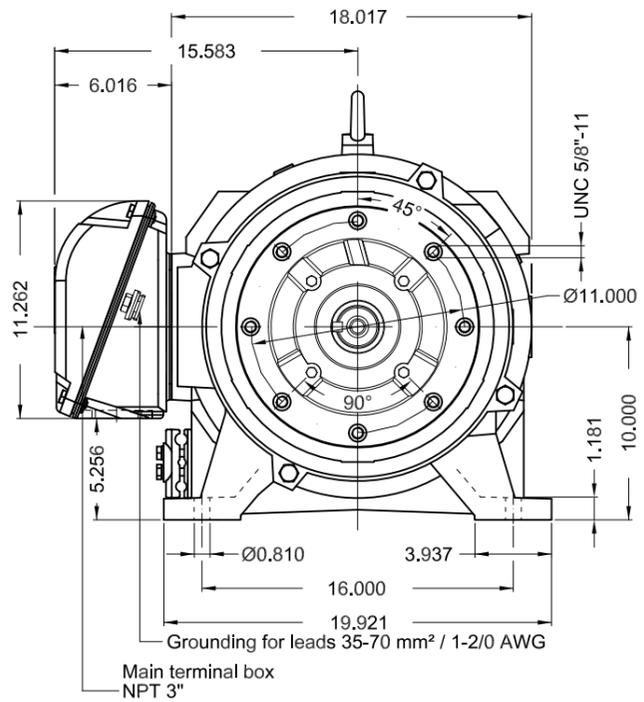


Performance : 230/460 V 60 Hz 4P

Rated current : 276/138 A  
 LRC : 6.9  
 Rated torque : 369 ft.lb  
 Locked rotor torque : 270 %  
 Breakdown torque : 260 %  
 Rated speed : 1780 rpm

Moment of inertia (J) : 25.5 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

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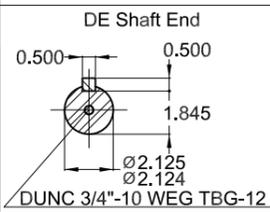
Grounding for leads 35-70 mm<sup>2</sup> / 1-2/0 AWG

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

125 HP 04 Poles 60Hz A

1:9

TS shaft end  
Color RAL 5009  
Painting plan 203A  
Mounting NEMA F-1  
Mounting B34R(D)



ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PHASE W40 MOTOR NEMA PREMIUM EFF					
CHECKED		FRAME 404/5TSC IP23 ODP					
RELEASED							
REL DT.		WMO Jaragua do Sul	Product Engineering	SHEET	1 / 1		

PREVIEW  
WDD



MODEL 125180T3E405TSC-W40  
MADE IN BRAZIL  
14284934

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

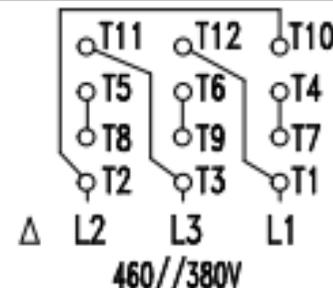
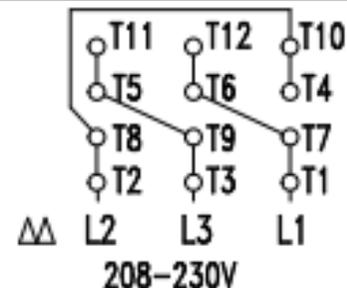


IEC 60034-1  
MOD.T01#FOXON



For 60Hz use on PWM, VT 1000:1, CT 2:1, 1.0SF

PH 3	FR 404/5TSC	HP(kW) 125.0(90.0)	Hz 60
V 230/460	A 276/138	RPM 1780	DES B
NEMA NOM EFF 95.4 %	INS. CL. F $\Delta$ T 80 K	IP23	
ENCL ODP	DUTY CONT.	AMB. 40°C	
CODE G	PF 0.86	SF 1.25	SFA 345/173
USABLE @208V 305 A	SF 1.15	SFA 351	
100HP 75kW 50Hz 380V 138A 1480RPM SF1.00 EFF 95.0% (IE3)	ALT 1000 m.a.s.l.	1041 Lbs	



→ 6314-C3(27g)  
→ 6212-Z-C3(13g)

MOBIL POLYREX EM  
20000 h