

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14281211
Catalog # : 06018OP3EFP364TS-W40

Frame	: 364/5TS	Locked rotor time	: 39s (cold) 22s (hot)
Output	: 60 HP (45 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 142/71.0 A	Protection degree	: IP23
L. R. Amperes	: 866/433 A	Cooling method	: IC01 - ODP
LRC	: 6.1x(Code G)	Mounting	: F-1
No load current	: 46.0/23.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1777 rpm	Starting method	: Direct On Line
Slip	: 1.28 %	Approx. weight ³	: 662 lb
Rated torque	: 177 ft.lb		
Locked rotor torque	: 180 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 12.8 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	92.9	93.0	93.6	93.6	Max. traction	: 1280 lb
Power Factor	0.49	0.73	0.82	0.85	Max. compression	: 1941 lb

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

Notes
USABLE @208V 157A SF 1.00 SFA 157A

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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Date	10/04/2020			
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

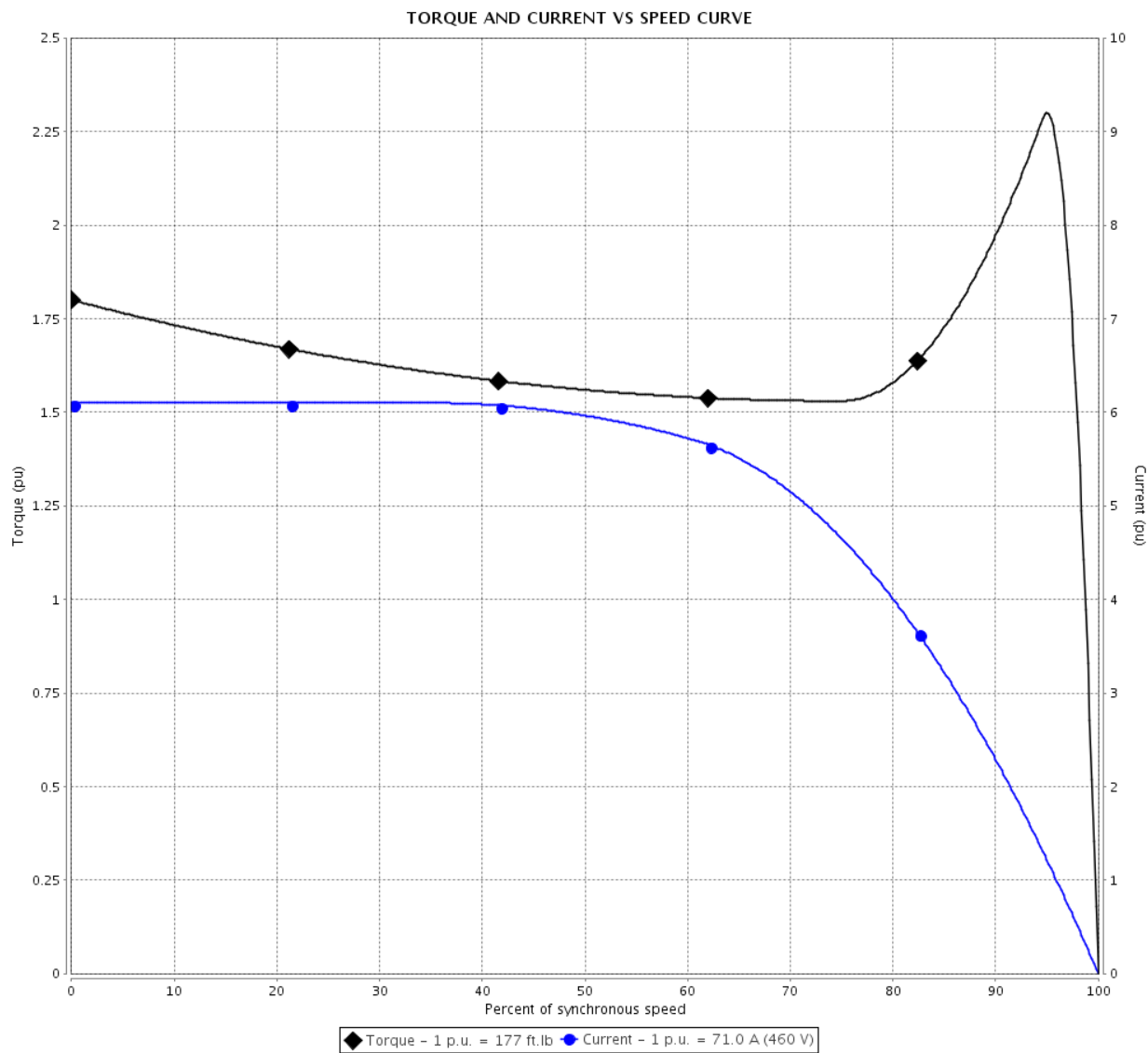
Product line : W40 High Efficiency Three-Phase

Product code :

14281211

Catalog # :

06018OP3EFP364TS-W40



Performance : 230/460 V 60 Hz 4P

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Breakdown torque : 229 %
Rated speed : 1777 rpm

Moment of inertia (J) : 12.8 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
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Temperature rise : 80 K
Design : B

Locked rotor time : 39s (cold) 22s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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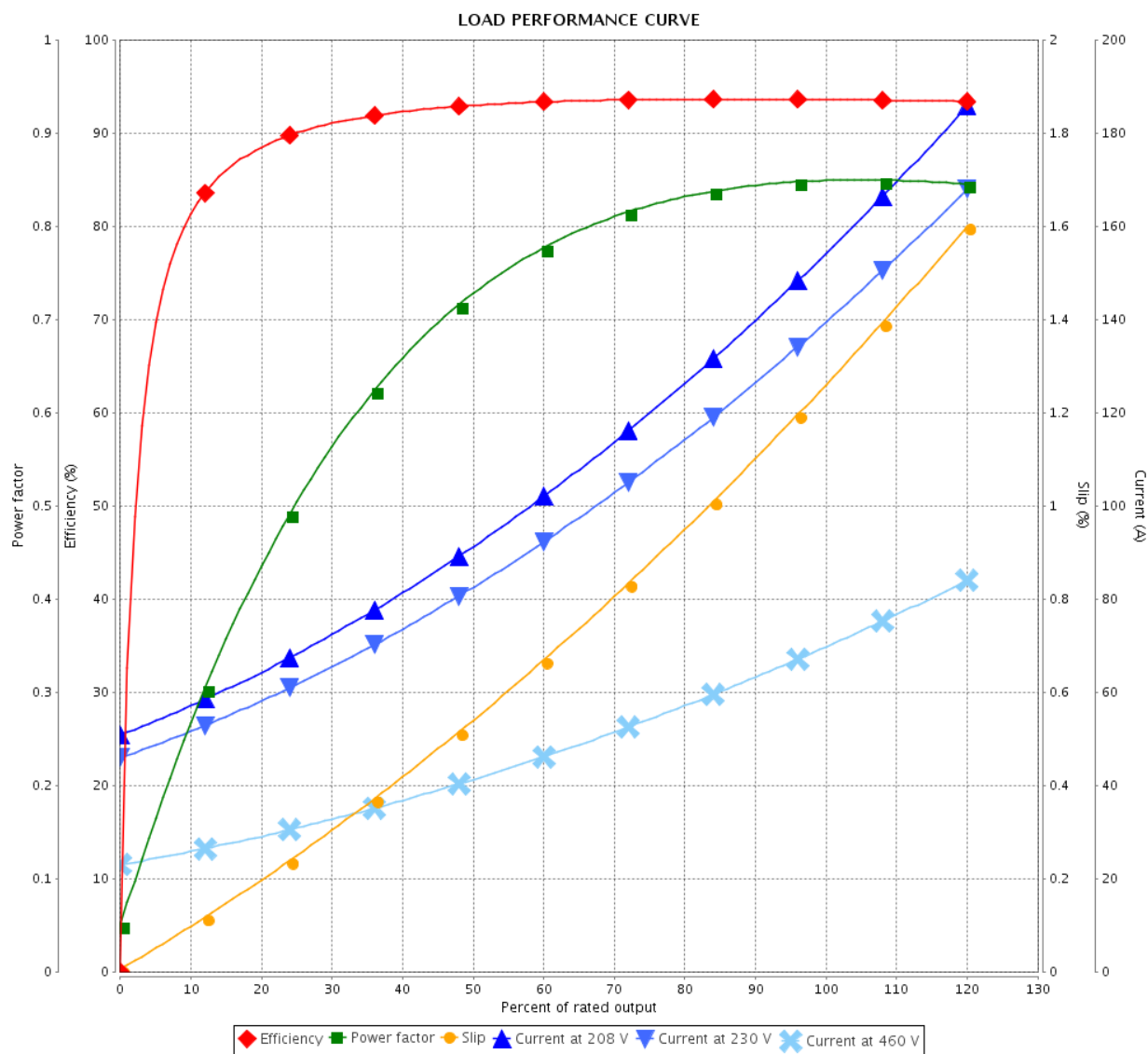
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

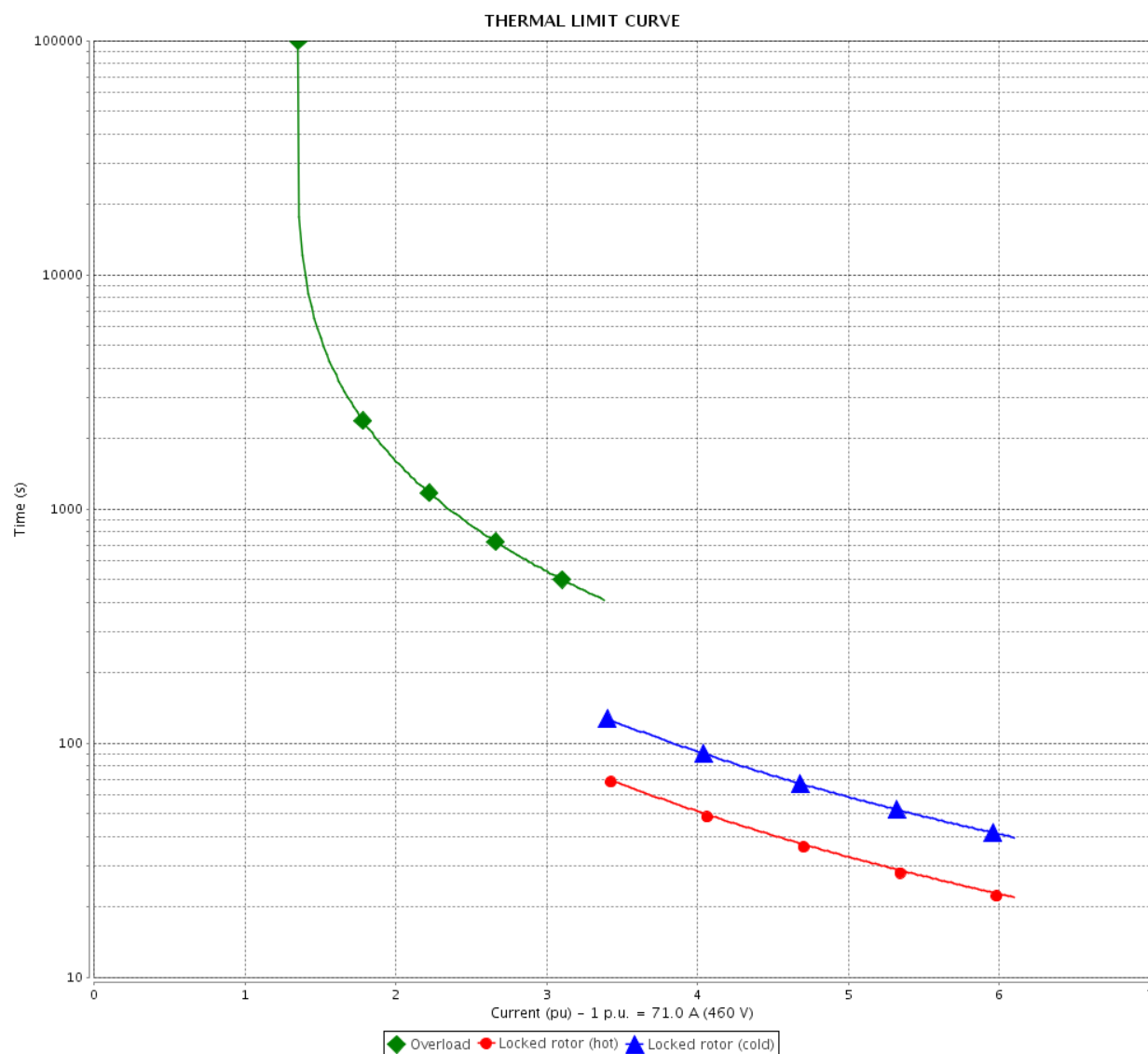
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 Temperature rise : 80 K
 Design : B

Heating constant

Cooling constant

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

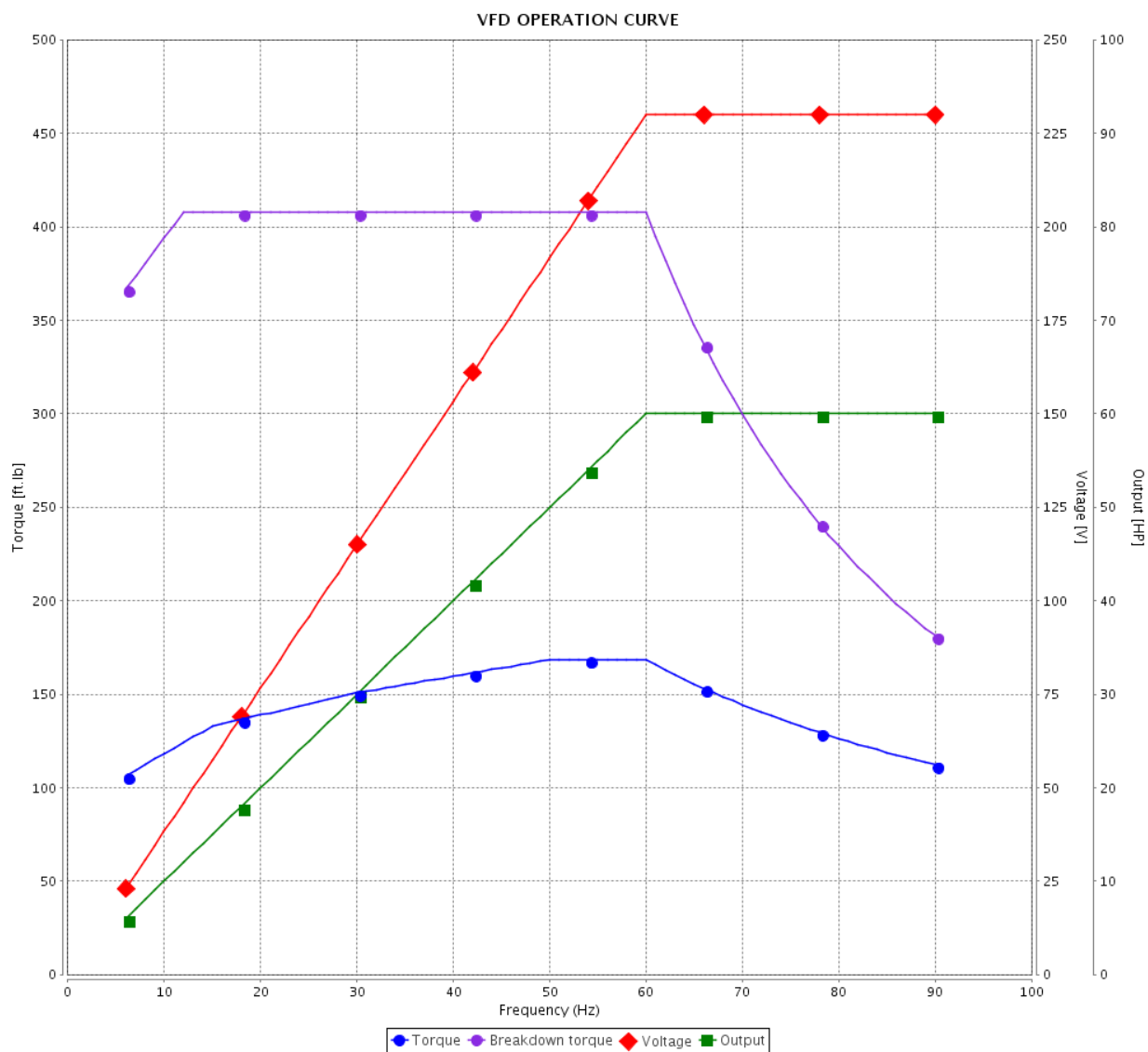
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Breakdown torque : 229 %

Rated speed : 1777 rpm

Moment of inertia (J)

: 12.8 sq.ft.lb

Duty cycle

: Cont.(S1)

Insulation class

: F

Service factor

: 1.15

Temperature rise

: 80 K

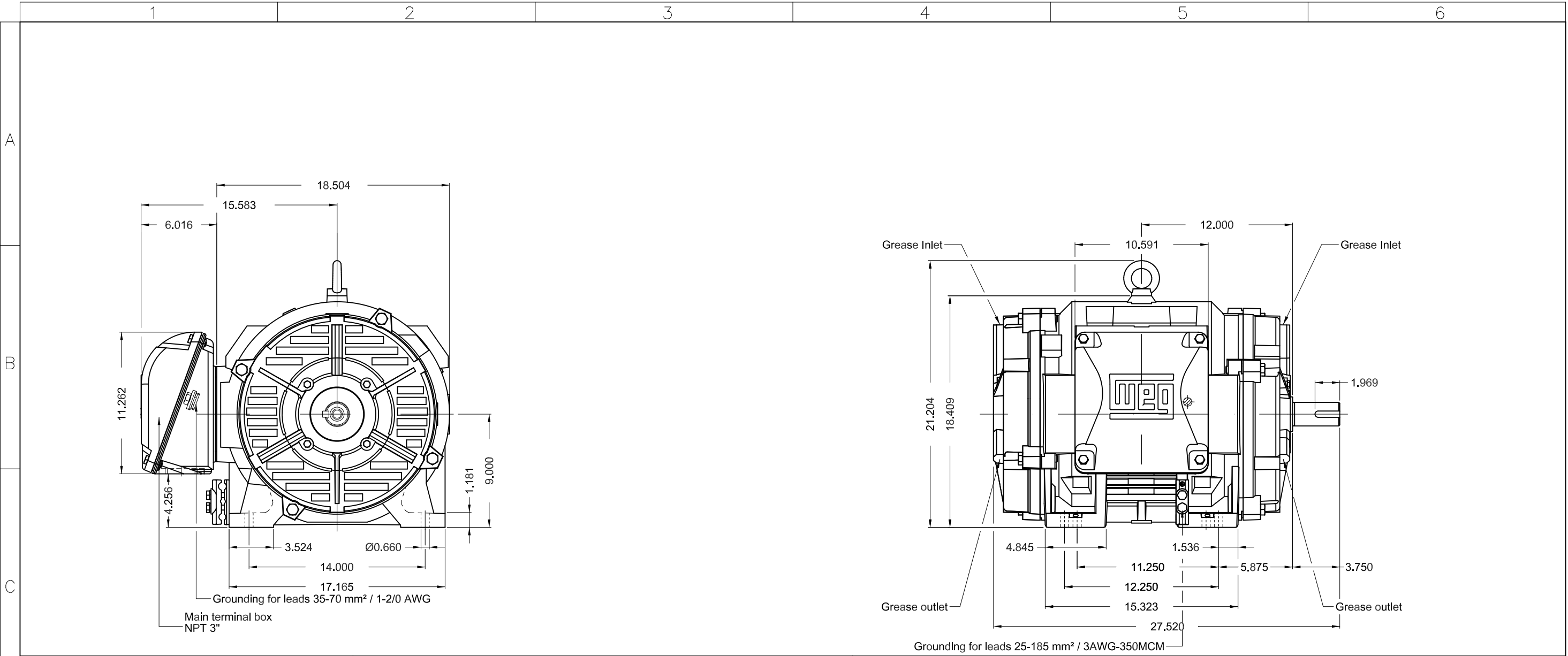
Design

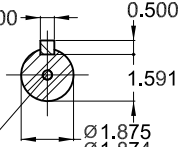
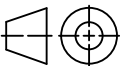

: B

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Subject to change without notice



D																
E	<div>TS shaft end</div> <div>Color RAL 3002</div> <div>Painting plan 203A</div> <div>Mounting NEMA F-1</div> <div>Mounting B3R(D)</div>	<div>DE Shaft End</div> <div></div> <div>DUNC 3/4"-10 WEG TBG-12</div>			60 HP 04 Poles 60Hz										A	
															1:8	
					ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER	
					EXECUTED	PIRWBUSER		THREE PHASE W40 MOTOR HIGH EFF FRAME 364/5TS IP23 ODP				PREVIEW WDD				
					CHECKED											
					RELEASED											
					REL DT.		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1					

MODEL 060180P3EFP364TS-W40

MADE IN BRAZIL

14281211



W40

CC029A

Inverter Duty Motor

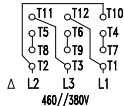
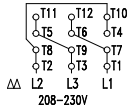


MOD.T01#FOX0H



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

PH 3	FR 364/5TS	HP(kW) 60.0(45.0)	Hz 60
V 230/460	A 142/71.0	RPM 1777	DES B
NEMA NOM EFF	93.6 %	INS. CL. F Δ T 80 K	IP23
ENCL ODP	DUTY	CONT.	AMB. 40°C
CODE G	PF 0.85	SF 1.15	SFA 163/81.6
USABLE @208V	157 A	SF 1.00	
60HP 45kW 50Hz 380V	85.8A 1470RPM	SF1.00 EFF 91.6%	



→ 6314-C3(27g)
→ 6212-Z-C3(13g)

MOBIL POLYREX EM
20000 h

ALT 1000 m.a.s.l. 661 Lbs