

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :																			
Product line	: NEMA Premium Efficiency Three-Phase																		
Product code :	12845474																		
Catalog # :	01018OT3V215TC-S																		
Frame : 213/5TC Output : 10 HP (7.5 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 200/400 V Rated current : 28.5/14.3 A L. R. Amperes : 200/100 A LRC : 7.0x(Code H) No load current : 13.8/6.89 A Rated speed : 1770 rpm Slip : 1.67 % Rated torque : 29.7 ft.lb Locked rotor torque : 250 % Breakdown torque : 350 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.30 sq.ft.lb Design : B	Locked rotor time : 25s (cold) 14s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Cooling method : IC01 - ODP Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 59.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 132 lb																		
Output	25% 50% 75% 100%																		
Efficiency (%)	89.4 90.2 91.0 91.7																		
Power Factor	0.38 0.64 0.77 0.83																		
Foundation loads																			
Max. traction	: 520 lb																		
Max. compression	: 652 lb																		
	<table style="width:100%; border: none;"> <tr> <td style="width: 50%;"></td> <td style="text-align: center;"><u>Drive end</u></td> <td style="text-align: center;"><u>Non drive end</u></td> </tr> <tr> <td>Bearing type :</td> <td style="text-align: center;">6208 ZZ</td> <td style="text-align: center;">6206 ZZ</td> </tr> <tr> <td>Sealing :</td> <td style="text-align: center;">Without Bearing Seal</td> <td style="text-align: center;">Without Bearing Seal</td> </tr> <tr> <td>Lubrication interval :</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Lubricant amount :</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Lubricant type :</td> <td colspan="2" style="text-align: center;">Mobil Polyrex EM</td> </tr> </table>		<u>Drive end</u>	<u>Non drive end</u>	Bearing type :	6208 ZZ	6206 ZZ	Sealing :	Without Bearing Seal	Without Bearing Seal	Lubrication interval :	-	-	Lubricant amount :	-	-	Lubricant type :	Mobil Polyrex EM	
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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.																			
Rev.	Changes Summary	Performed	Checked	Date															
Performed by																			
Checked by			Page	Revision															
Date	12/04/2022		1 / 6																

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



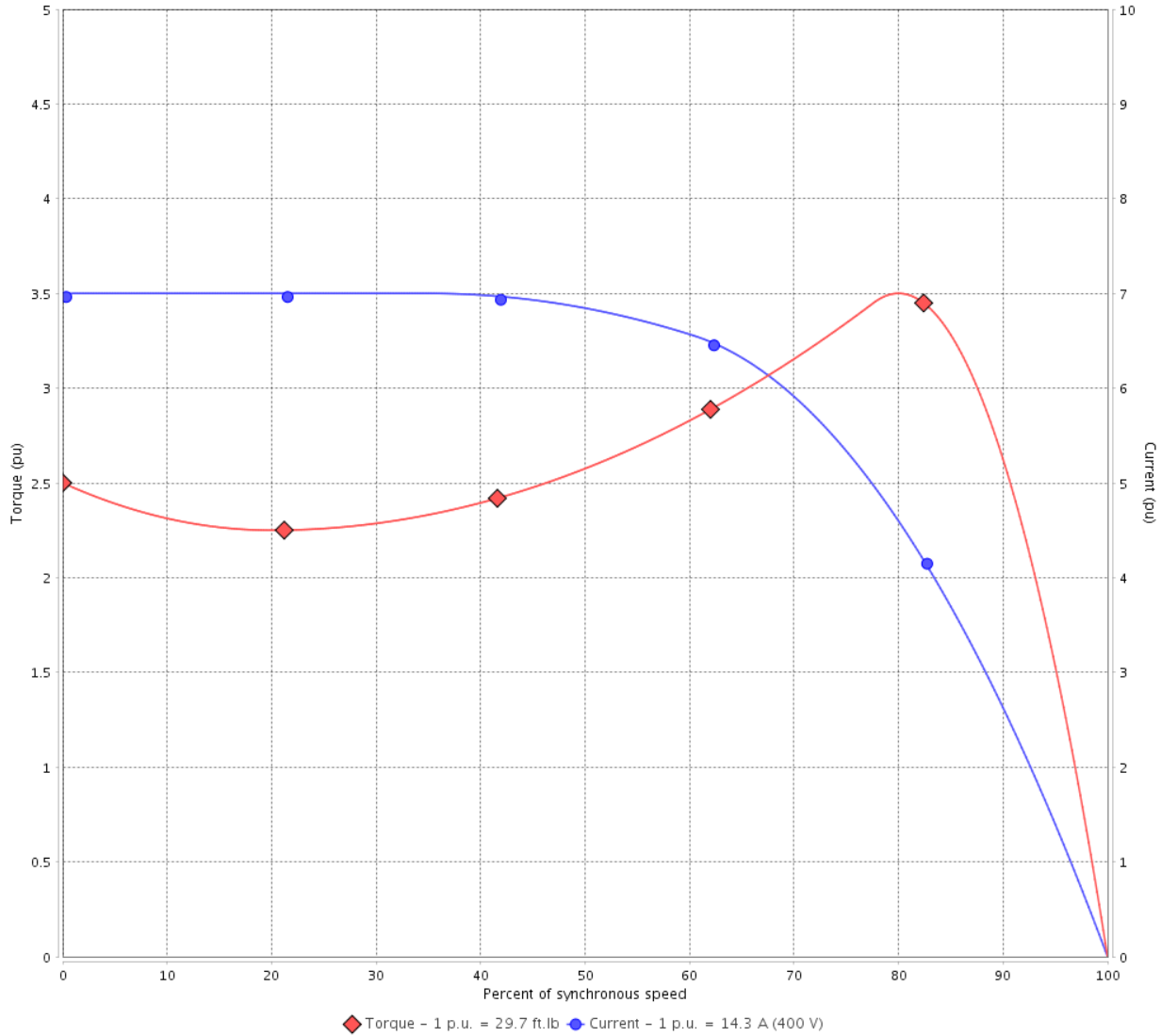
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12845474

Catalog # : 01018OT3V215TC-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 200/400 V 60 Hz 4P

Rated current	: 28.5/14.3 A	Moment of inertia (J)	: 1.30 sq.ft.lb
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 29.7 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

Locked rotor time : 25s (cold) 14s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

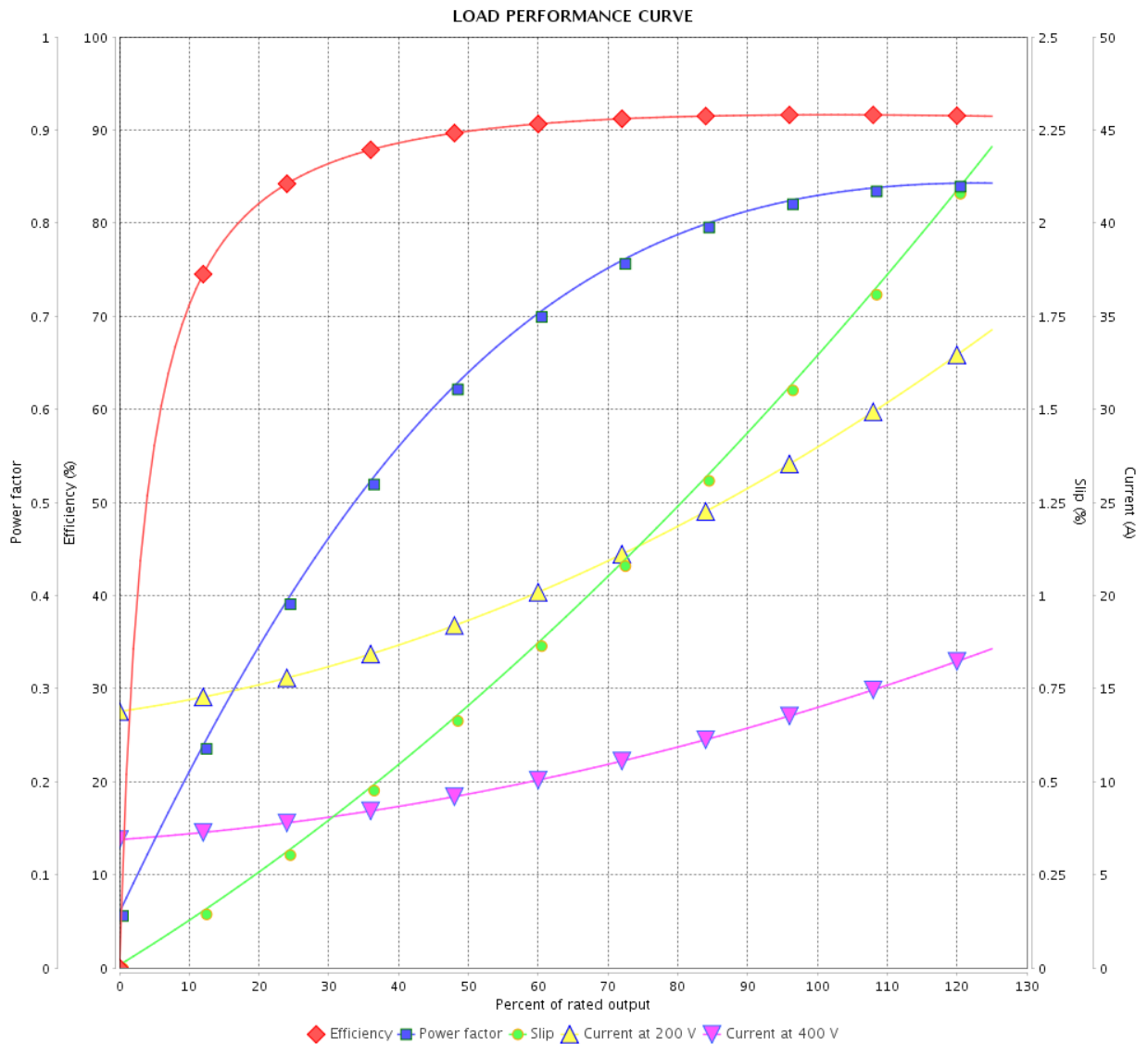


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Catalog # : 01018OT3V215TC-S



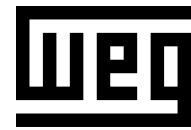
Performance : 200/400 V 60 Hz 4P

Rated current : 28.5/14.3 A
 LRC : 7.0
 Rated torque : 29.7 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 350 %
 Rated speed : 1770 rpm

Moment of inertia (J) : 1.30 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

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Heating constant

Cooling constant

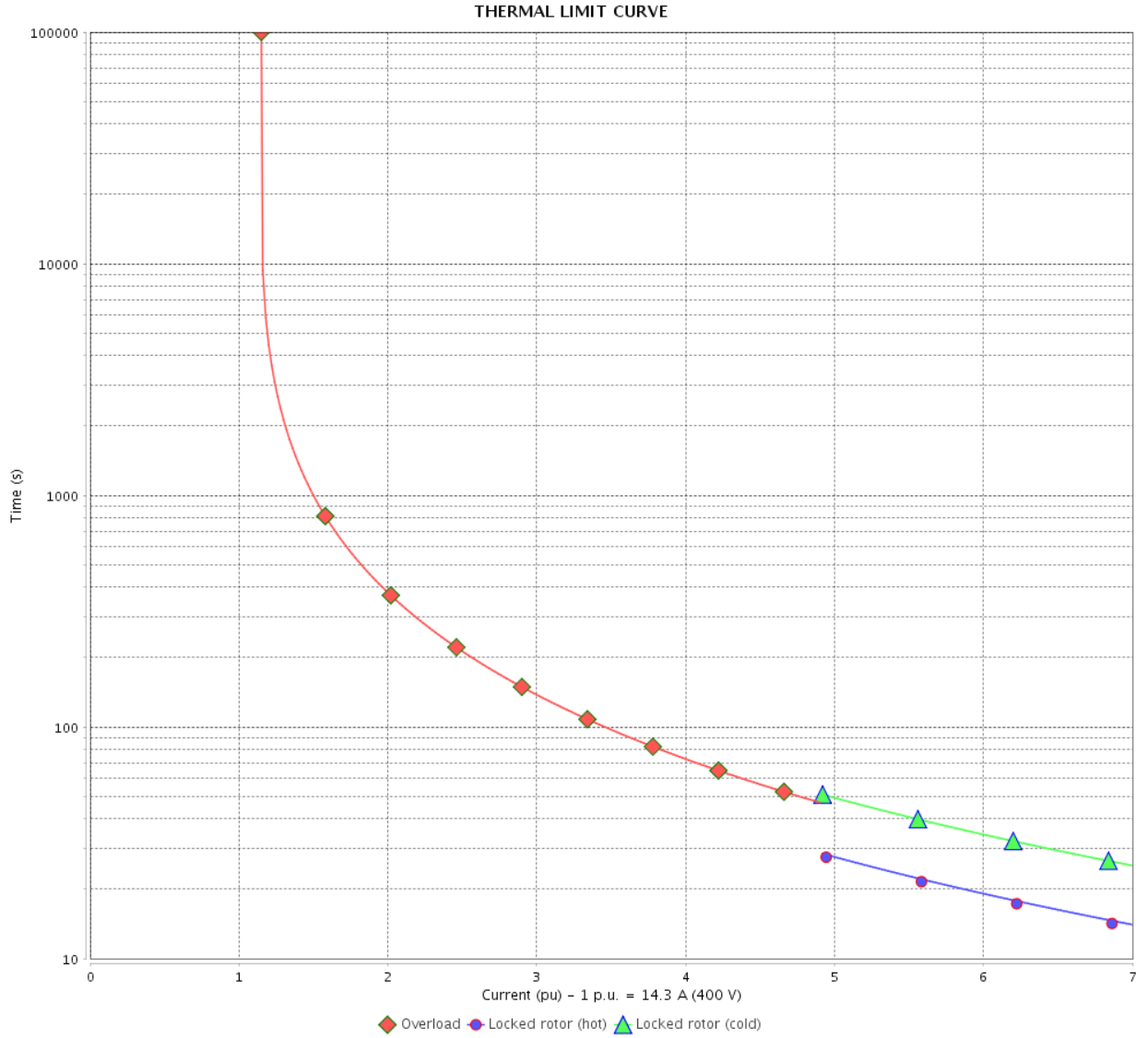
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



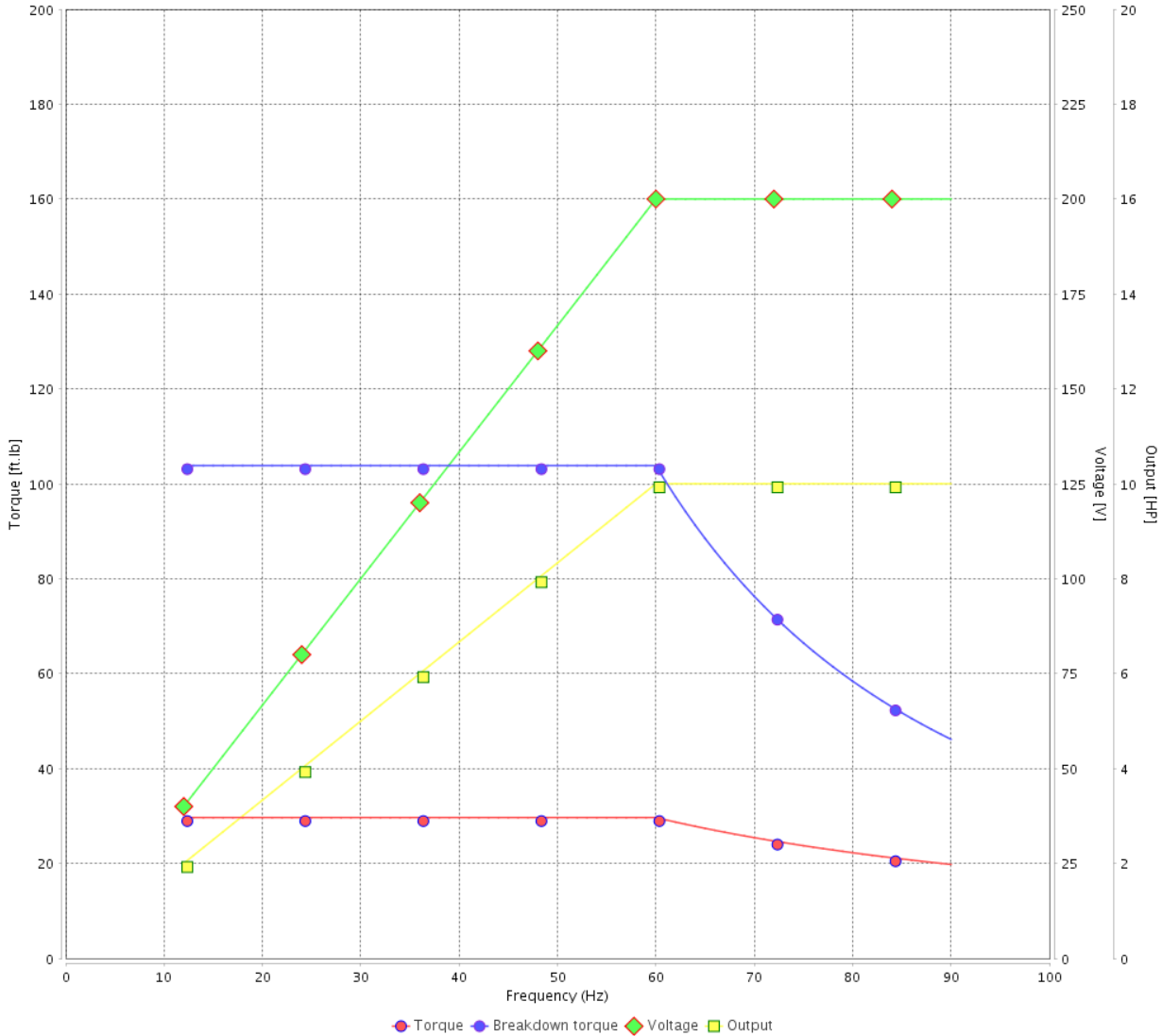
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Product code : 12845474

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VFD OPERATION CURVE

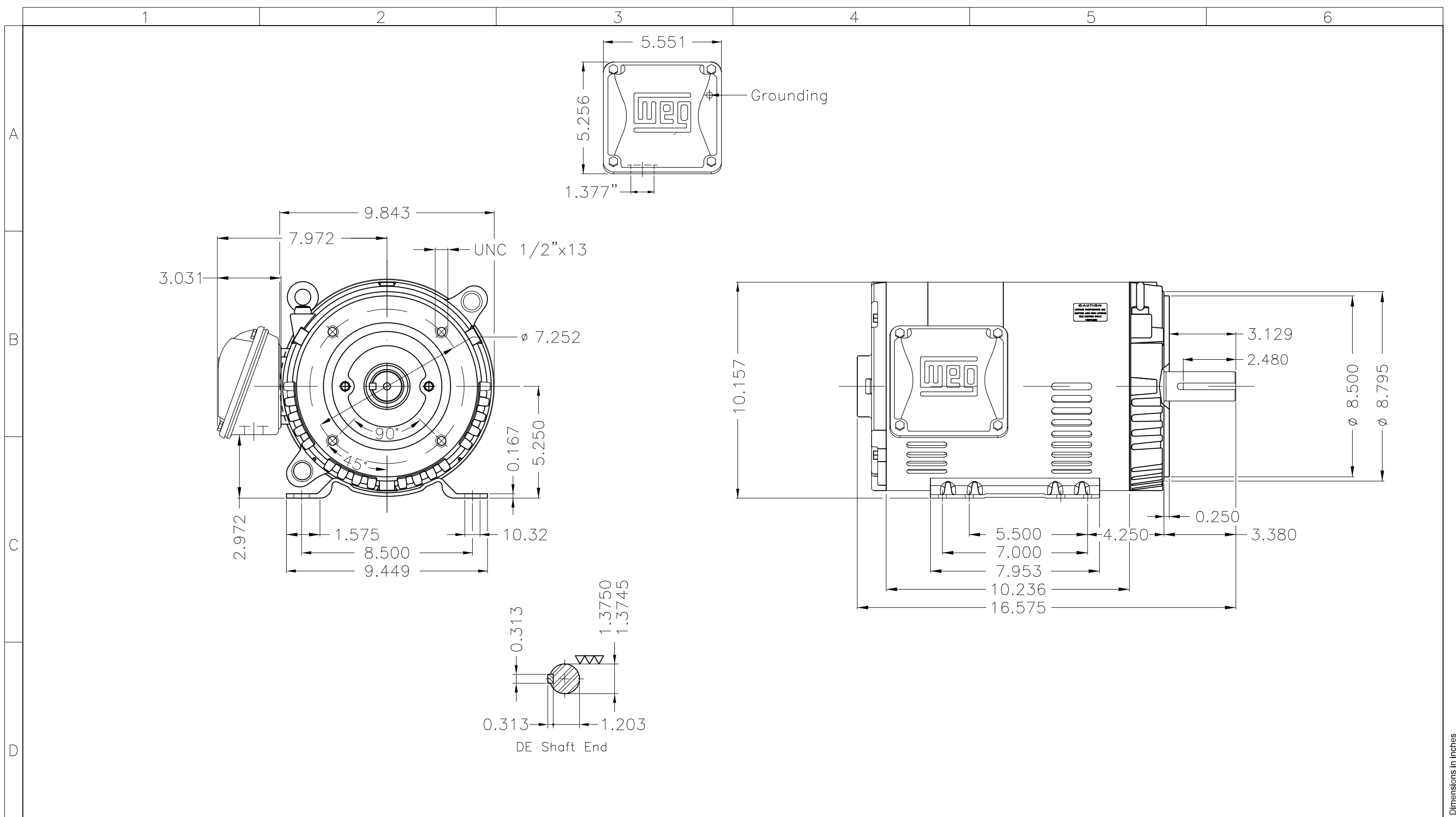



Performance : 200/400 V 60 Hz 4P

Rated current : 28.5/14.3 A
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Color Munsell N 1 matte black									
Painting plan 207N									
Mounting F-1/B34R(D)									
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF.				PREVIEW WDD			
CHECKED		FRAME 213/5TC IP21 ODP							
RELEASED									
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1				

10 HP 04 Poles 60 Hz

**NEMA
Premium**

MADE IN MEXICO

MAT: 12845474 CC029A

W01.T00IC0X0N

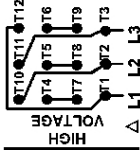
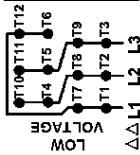
MODEL 010180T3V215TC-S

22MAR2022 S/N:

PH 3	Hz 60	HP 10
FR 213/5TC		KW 7.5
DUTY CONT.		V 200/400
ALT 1000 m.a.s.l.		A 28.5/14.3
INS CL F AT 80K		SFA 32.8/16.4
AMB 40°C	DES B	SF 1.15
ENCL ODP	CODE H	PF 0.83
		RPM 1770
		NEMA NOM. EFF 91.7%

Inverter duty motor For use on VPWM 1000:1 VT, 5:1 CT

DE 6208-ZZ	ODE 6206-ZZ	MOBIL POLYREX EM
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T1-BLU T2-WHT
 T3-ORG T4-YEL
 T5-BLK T6-GRY
 T7-PNK T8-RED
 T9-BRK RED
 T10-CURRY
 T11-GRN T12-VLT

INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION



WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical shocks. Disconnect power source before servicing unit.



AVERTISSEMENT: Le moteur doit être mis à la terre

conformément aux codes électriques locaux et nationaux afin d'éviter tout choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine.

