

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase			
Product code :	12674732			
Catalog # :	003180T3H182TC-S			
Frame : 182/4TC Output : 3 HP (2.2 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 575 V Rated current : 3.09 A L. R. Amperes : 25.9 A LRC : 8.4x(Code K) No load current : 1.66 A Rated speed : 1765 rpm Slip : 1.94 % Rated torque : 8.93 ft.lb Locked rotor torque : 220 % Breakdown torque : 330 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.3092 sq.ft.lb Design : B	Locked rotor time : 27s (cold) 15s (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 : 55.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 78.2 lb			
Output	25% 50% 75% 100%			
Efficiency (%)	86.4 87.5 88.5 89.5			
Power Factor	0.35 0.60 0.73 0.80			
Foundation loads				
Max. traction	: 149 lb			
Max. compression	: 227 lb			
Bearing type	: <u>Drive end</u> 6206 ZZ <u>Non drive end</u> 6205 ZZ			
Sealing	: Without Bearing Seal Without Bearing Seal			
Lubrication interval	: - -			
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
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.				
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



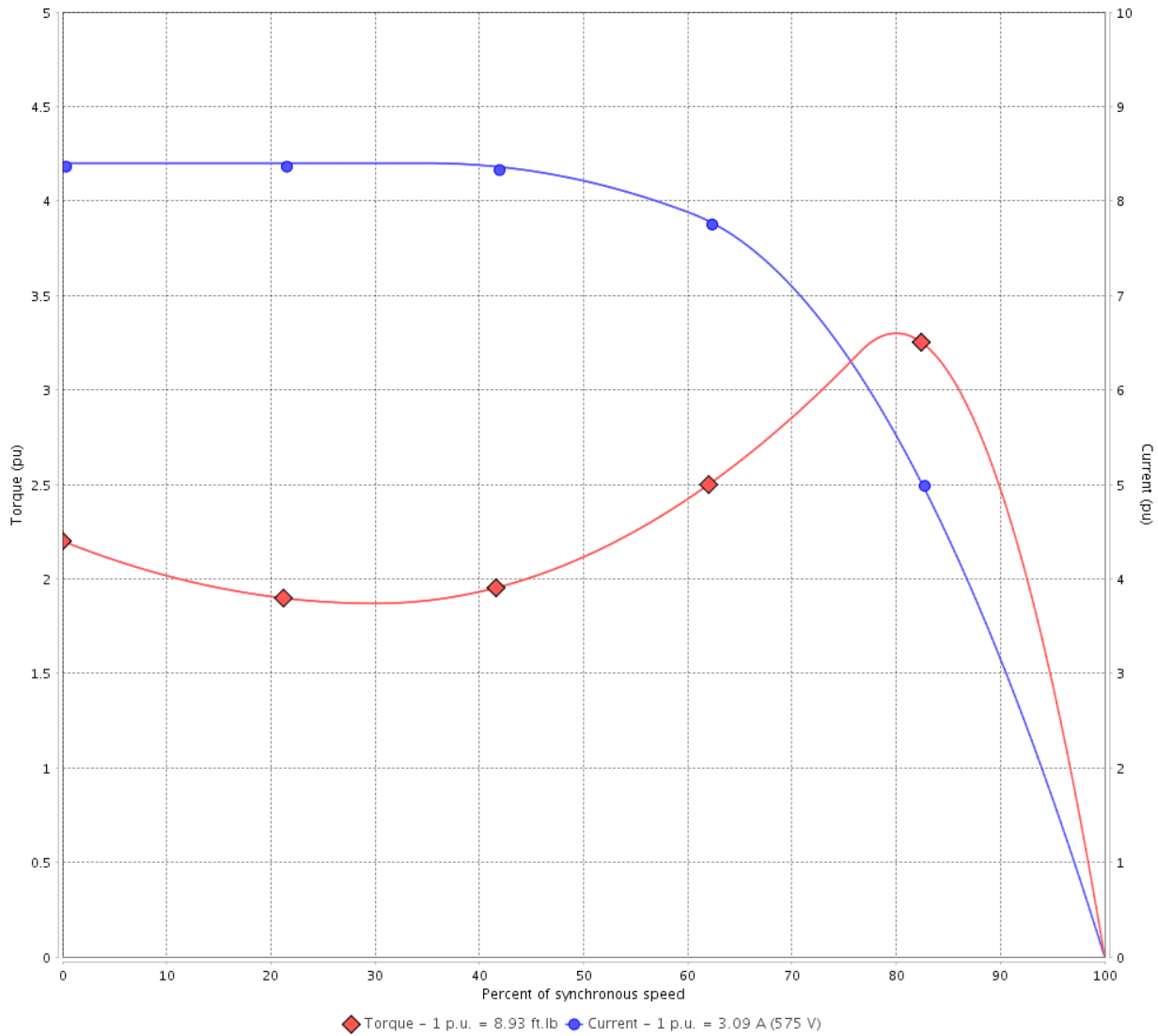
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12674732

Catalog # : 00318OT3H182TC-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 4P

Rated current	: 3.09 A	Moment of inertia (J)	: 0.3092 sq.ft.lb
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 8.93 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

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LOAD PERFORMANCE CURVE

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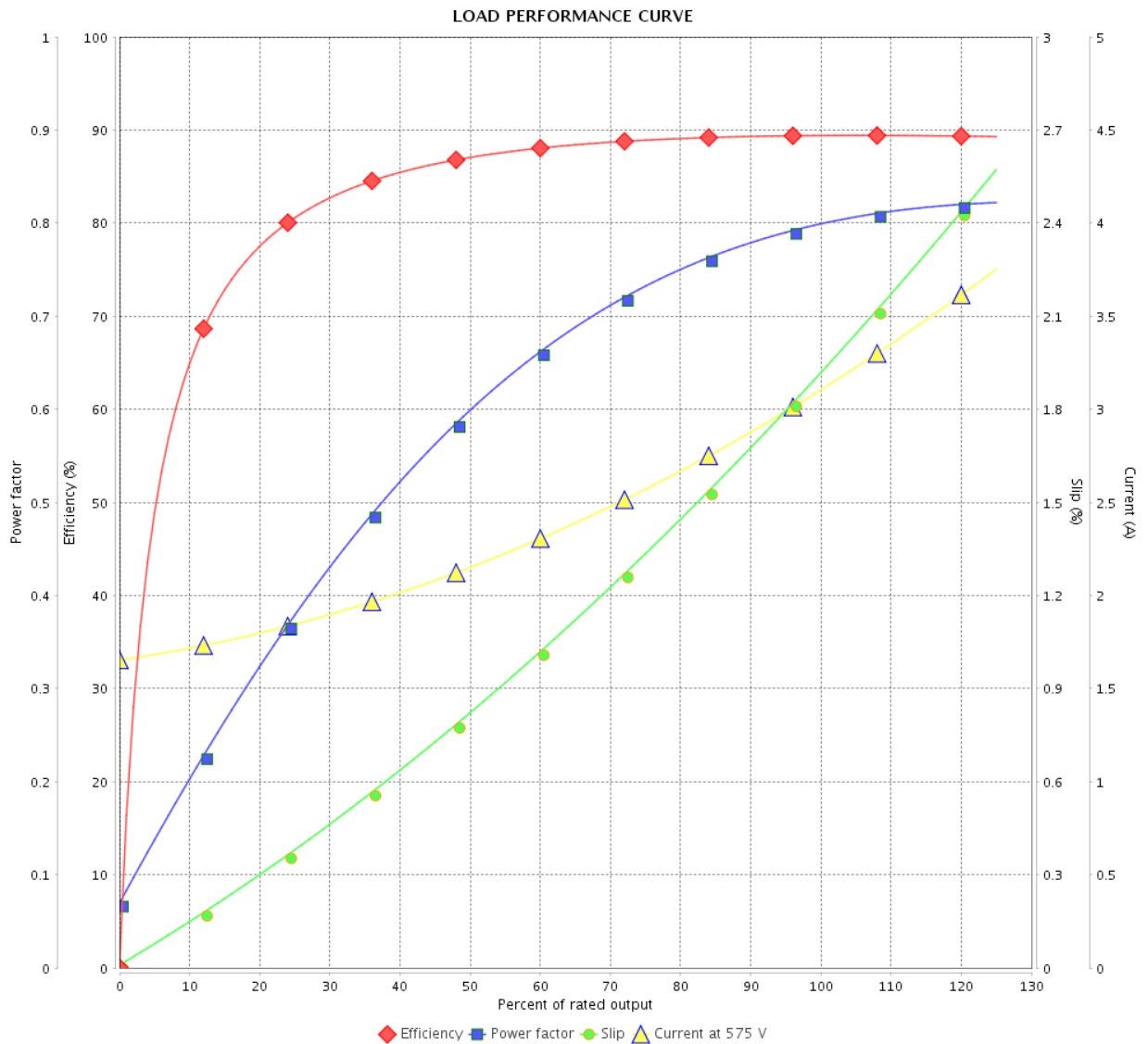


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 Breakdown torque : 330 %
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 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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THERMAL LIMIT CURVE

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Heating constant

Cooling constant

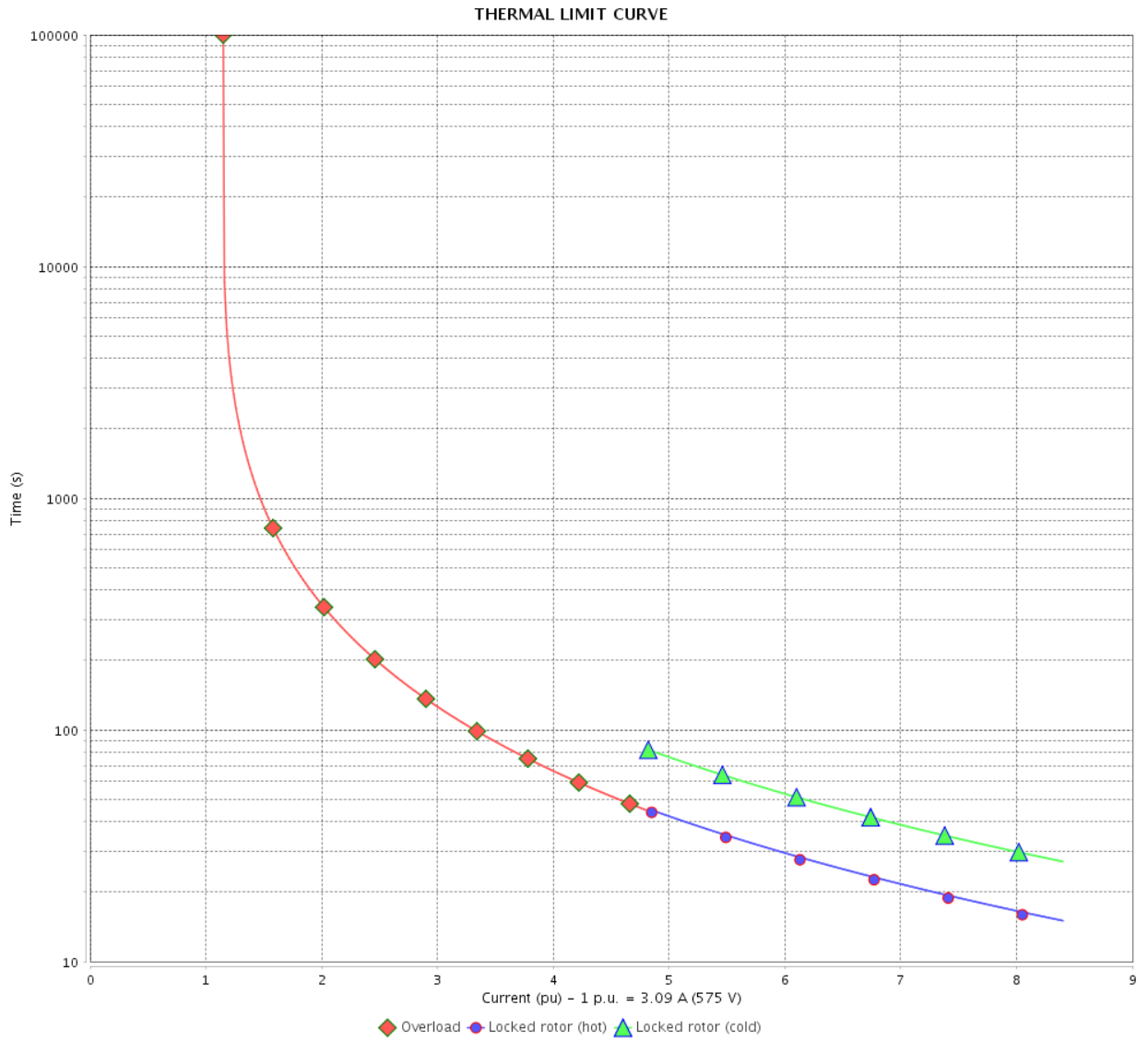
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

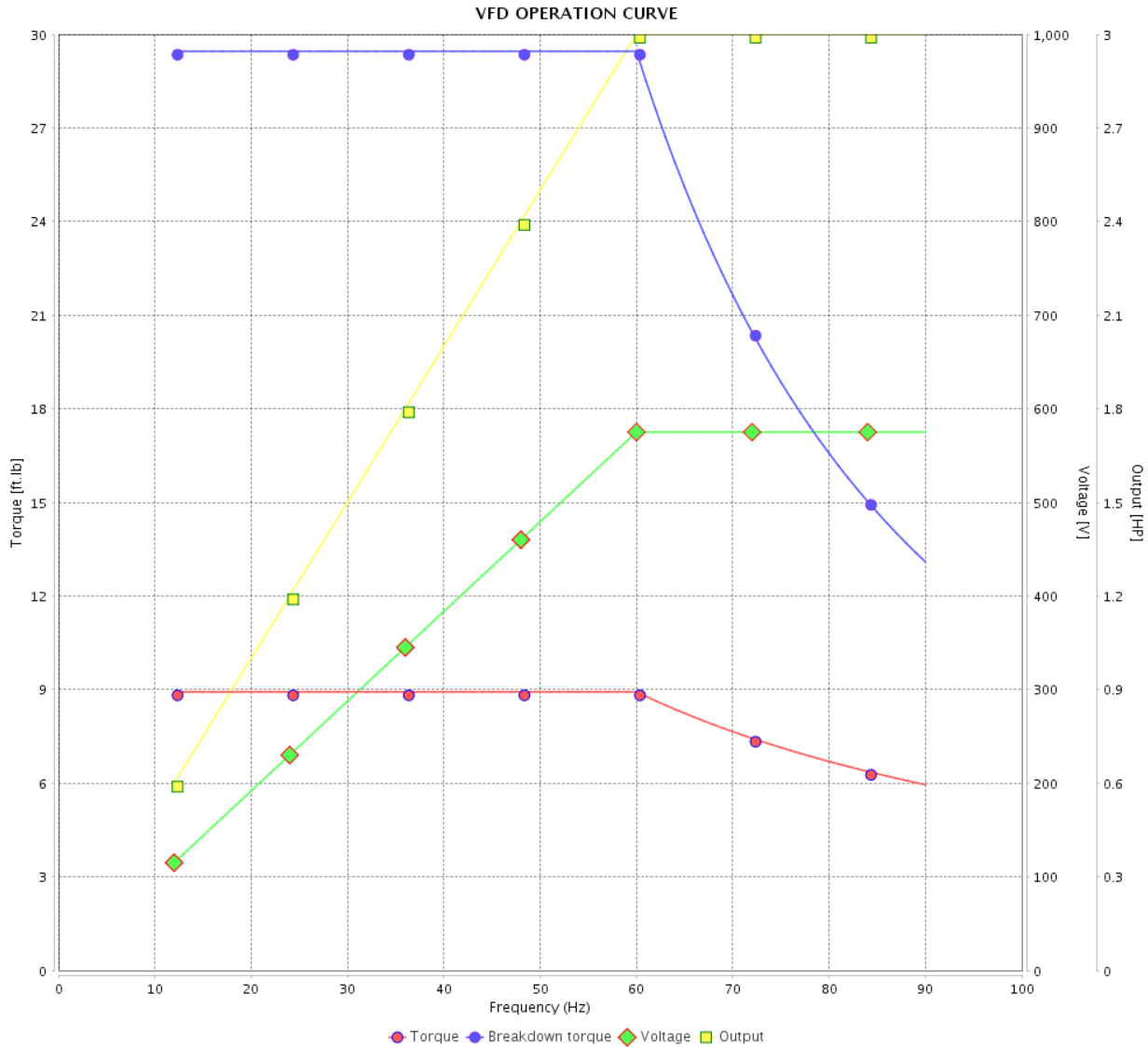


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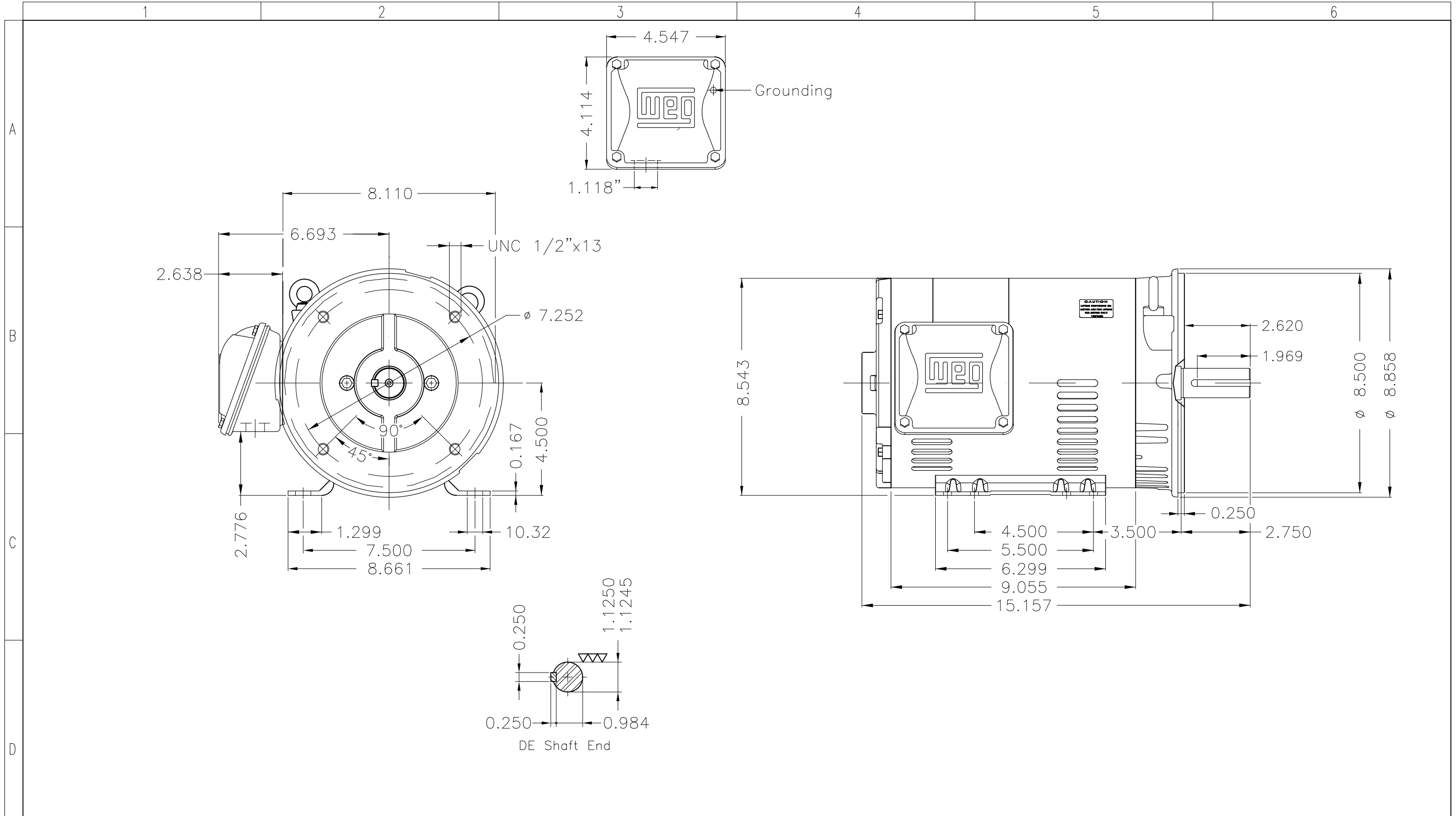


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Color Munsell N 1 matte black									
Painting plan 207N									
Mounting F-1/B34R(D)									
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF.			PREVIEW	WDD	SHEET	1 / 1	
CHECKED		FRAME 182/4TC IP21 ODP							
RELEASED									
REL DT.	WMO	Jaragua do Sul	Product Engineering						

3 HP 04 Poles 60 Hz

Dimensions in inches XME A3

**NEMA
Premium**

MADE IN MEXICO

MAT: 12674732 CC029A**W01.T00IC0X0N****MODEL 003180T3H182TC-S****18NOV2021 S/N:**

PH 3	Hz 60	HP 3.0
FR 182/4TC		KW 2.2
DUTY CONT.		V 575
ALT 1000 m.a.s.l.		A 3.09
INS CL F AT 80K		SFA 3.55
AMB 40°C	DES B	SF 1.15
ENCL ODP	CODE K	PF 0.80
		RPM 1765
		NEMA NOM. EFF 89.5%

Inverter duty motor For use on VPWM 1000:1 VT, 5:1 CT**DE 6206-ZZ ODE 6205-ZZ MOBIL POLYREX EM**

T1-BLU
T2-WHT
T3-ORG
T4-YEL
T5-BLK
T6-GRY

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.

