

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :																
Product line	: Premium Efficiency Three-Phase															
Product code :	14799005															
Catalog # :	00158ET3H56C-S															
Frame : 56HC Output : 1.5 HP (1.1 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 575 V Rated current : 1.62 A L. R. Amperes : 13.3 A LRC : 8.2x(Code K) No load current : 0.867 A Rated speed : 1750 rpm Slip : 2.78 % Rated torque : 4.50 ft.lb Locked rotor torque : 270 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1101 sq.ft.lb Design : B	Locked rotor time : 37s (cold) 21s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 52.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 38.1 lb															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Output</td> <td>25%</td> <td>50%</td> <td>75%</td> <td>100%</td> </tr> <tr> <td>Efficiency (%)</td> <td>85.2</td> <td>85.5</td> <td>86.5</td> <td>86.5</td> </tr> <tr> <td>Power Factor</td> <td>0.35</td> <td>0.59</td> <td>0.72</td> <td>0.79</td> </tr> </table>	Output	25%	50%	75%	100%	Efficiency (%)	85.2	85.5	86.5	86.5	Power Factor	0.35	0.59	0.72	0.79	Foundation loads Max. traction : 113 lb Max. compression : 151 lb
Output	25%	50%	75%	100%												
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Bearing type : Sealing : Lubrication interval : Lubricant amount : Lubricant type :	<table style="width:100%;"> <tr> <td style="text-align:center;"><u>Drive end</u></td> <td style="text-align:center;"><u>Non drive end</u></td> </tr> <tr> <td style="text-align:center;">6204 ZZ</td> <td style="text-align:center;">6202 ZZ</td> </tr> <tr> <td style="text-align:center;">V'Ring</td> <td style="text-align:center;">Without Bearing Seal</td> </tr> <tr> <td style="text-align:center;">-</td> <td style="text-align:center;">-</td> </tr> <tr> <td style="text-align:center;">-</td> <td style="text-align:center;">-</td> </tr> <tr> <td colspan="2" style="text-align:center;">Mobil Polyrex EM</td> </tr> </table>	<u>Drive end</u>	<u>Non drive end</u>	6204 ZZ	6202 ZZ	V'Ring	Without Bearing Seal	-	-	-	-	Mobil Polyrex EM				
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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.															
Rev.	Changes Summary	Performed	Checked	Date												
Performed by																
Checked by			Page	Revision												
Date	12/04/2022		1 / 5													

TORQUE AND CURRENT VS SPEED CURVE

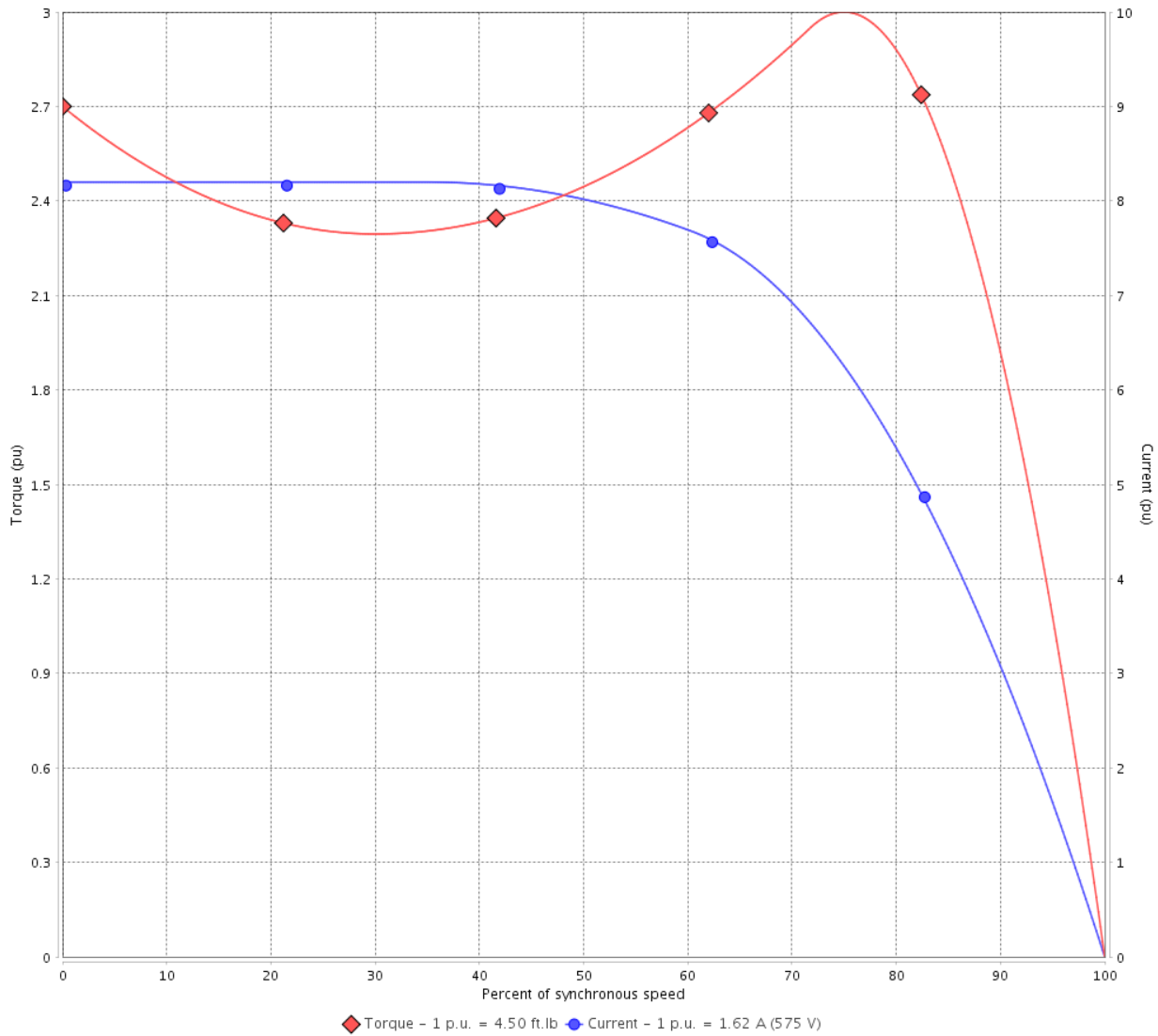
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 14799005
 Catalog # : 00158ET3H56C-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 4P

Rated current	: 1.62 A	Moment of inertia (J)	: 0.1101 sq.ft.lb
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 4.50 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

Locked rotor time : 37s (cold) 21s (hot)

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Date	12/04/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

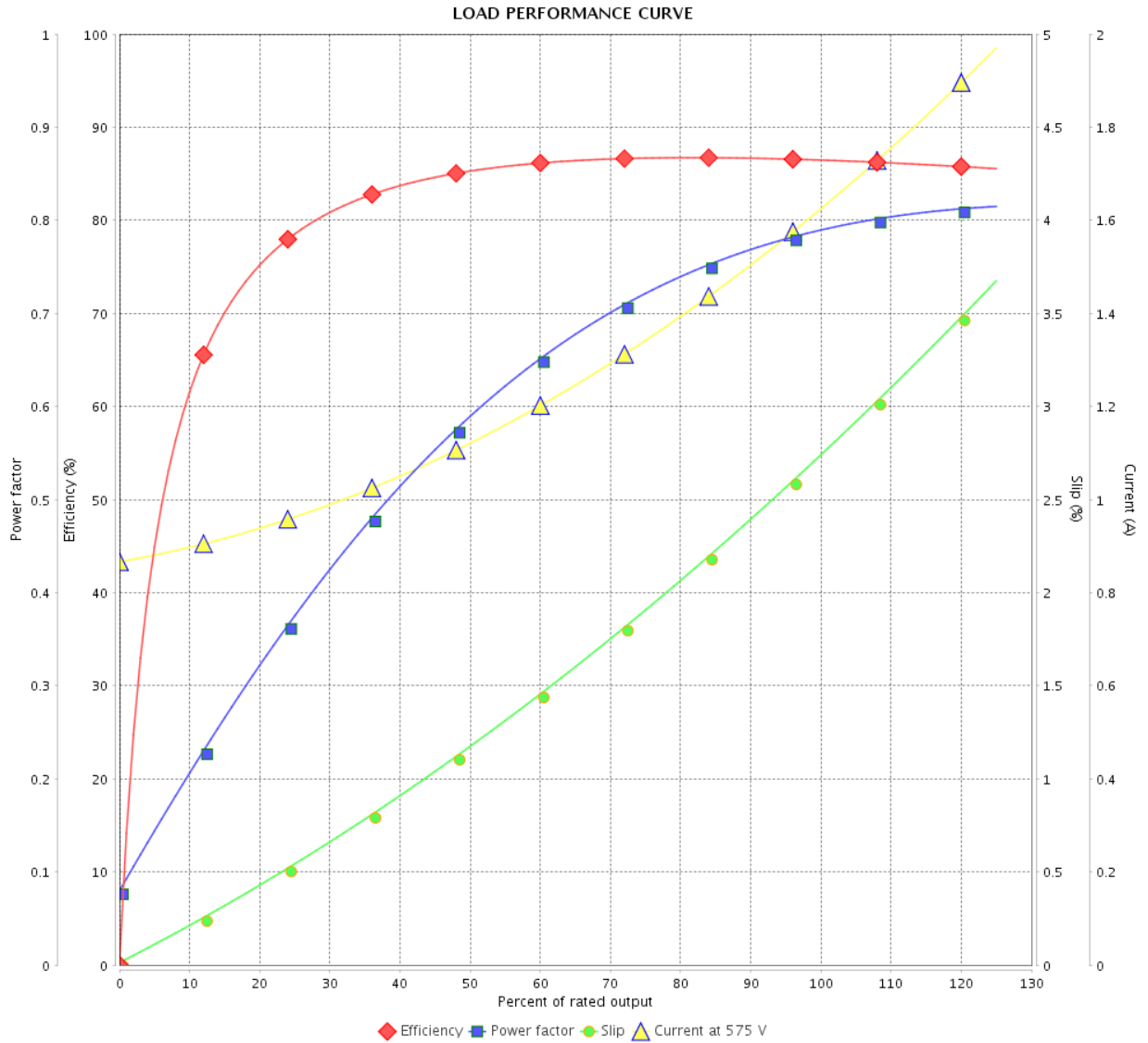
Product line : Premium Efficiency Three-Phase

Product code :

14799005

Catalog # :

00158ET3H56C-S



Performance : 575 V 60 Hz 4P

Rated current : 1.62 A
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 Insulation class : F
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 Temperature rise : 80 K
 Design : B

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Performed by			Page	Revision
Checked by				
Date				

THERMAL LIMIT CURVE

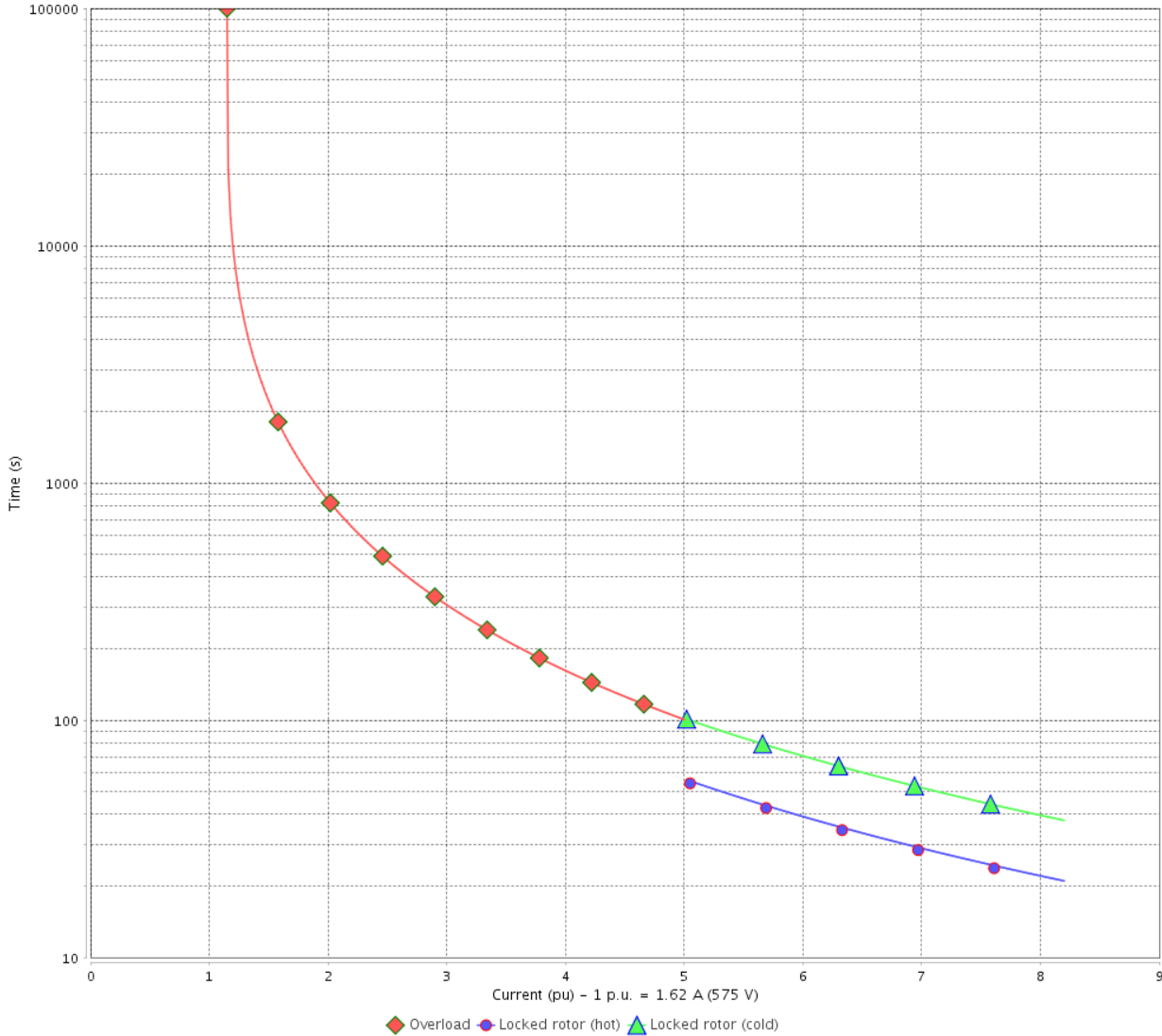
Three Phase Induction Motor - Squirrel Cage



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Heating constant

Cooling constant

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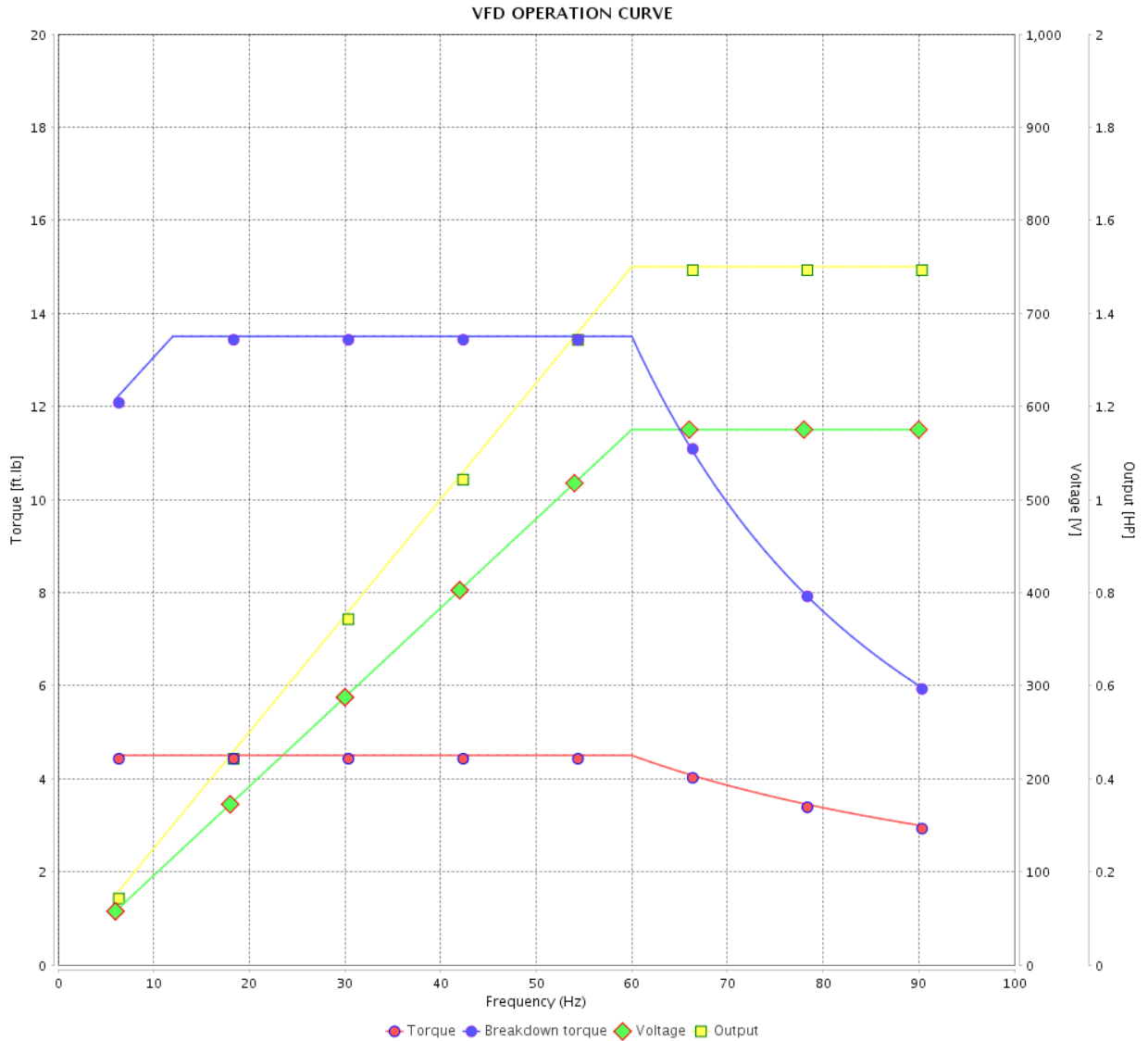
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

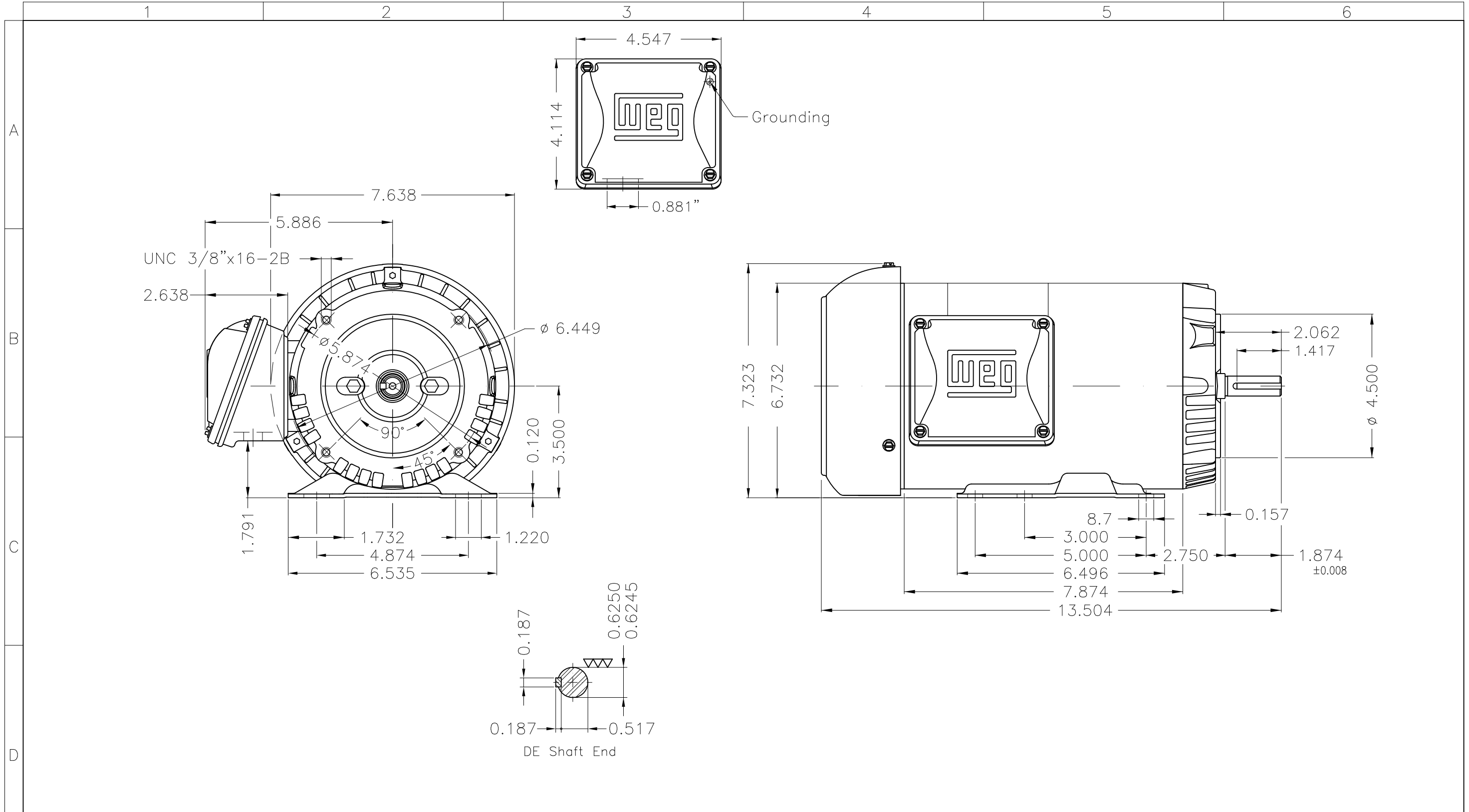
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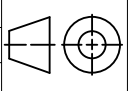
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Date	12/04/2022			



Fan cover - steel plate
 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	PIRWUSER	 THREE PH. MOTOR ROLLED STEEL PREM. EFF. FRAME 56HC IP55 TEFC					
CHECKED							
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1		

1.5 HP 04 Poles 60 Hz

Dimensions in inches XME A3



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NEMA
Premium



MADE IN MEXICO

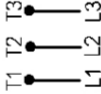
MAT: 14799005 CC029A
W01.TE0IC0X0X
MODEL 00158ET3H56C-S
28OCT2021 B/N:

For 60Hz: Class I, Zone 2, IIC
Class I, Div.2, Gr. A,B,C,D - T3
Div 2 Inverter Duty (SF1.00)
CT 2:1/VT 1000:1

PH 3	Hz 60	HP 1.5
FR 56HC		KW 1.1
DUTY CONT.		V 575
ALT 1000 m.a.s.l.		A 1.62
INS CL F AT 80K	IP55	SFA 1.86
AMB 40°C	DES B	SF 1.15
ENCL TEFC	CODE K	PF 0.79
		RPM 1750
		NEMA NOM. EFF 86.5%

For safe area-inverter duty motor For use on VPWM 1000:1 VT, 5:1 CT

DE 6204-ZZ ODE 6202-ZZ MOBIL POLYREX EM



T1-BLU

T2-WHT

T3-ORG



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.

