

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :																
Product line	: Premium Efficiency Three-Phase															
Product code :	14786537															
Catalog # :	00112ET3H56CFL-S															
Frame : 56C Output : 1 HP (0.75 kW) Poles : 6 Frequency : 60 Hz Rated voltage : 575 V Rated current : 1.26 A L. R. Amperes : 7.33 A LRC : 5.8x(Code J) No load current : 0.810 A Rated speed : 1145 rpm Slip : 4.58 % Rated torque : 4.59 ft.lb Locked rotor torque : 229 % Breakdown torque : 280 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1597 sq.ft.lb Design : B	Locked rotor time : 55s (cold) 31s (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 <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 50.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 37.1 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>79.5</td> <td>80.0</td> <td>82.5</td> <td>82.5</td> </tr> <tr> <td>Power Factor</td> <td>0.28</td> <td>0.50</td> <td>0.63</td> <td>0.72</td> </tr> </table>	Output	25%	50%	75%	100%	Efficiency (%)	79.5	80.0	82.5	82.5	Power Factor	0.28	0.50	0.63	0.72	Foundation loads Max. traction : 107 lb Max. compression : 145 lb
Output	25%	50%	75%	100%												
Efficiency (%)	79.5	80.0	82.5	82.5												
Power Factor	0.28	0.50	0.63	0.72												
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	11/04/2022		1 / 5													

# TORQUE AND CURRENT VS SPEED CURVE

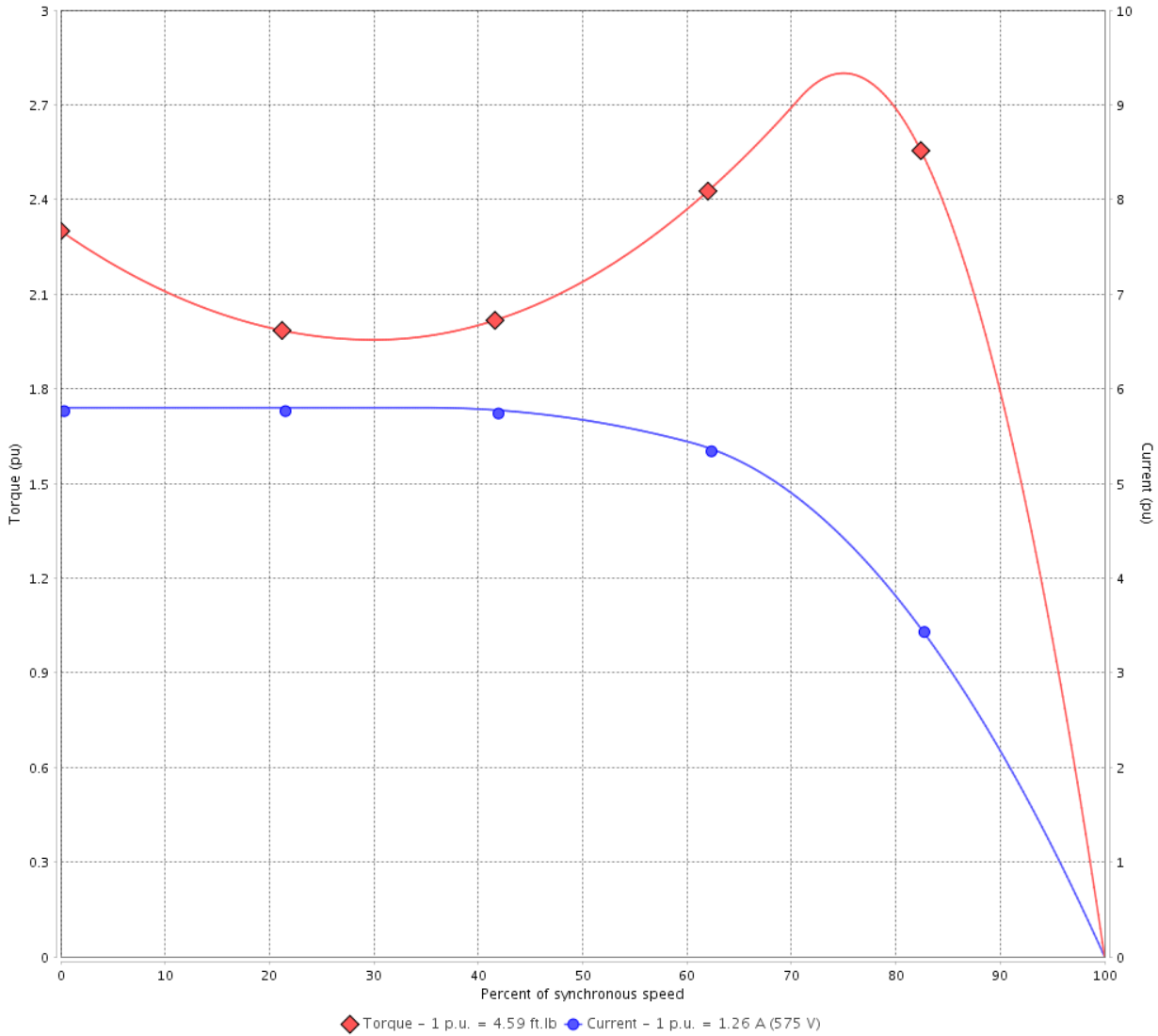
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase      Product code : 14786537  
 Catalog # : 00112ET3H56CFL-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 6P

Rated current	: 1.26 A	Moment of inertia (J)	: 0.1597 sq.ft.lb
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 4.59 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1145 rpm	Design	: B

Locked rotor time : 55s (cold) 31s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 5	Revision
Checked by				
Date	11/04/2022			

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

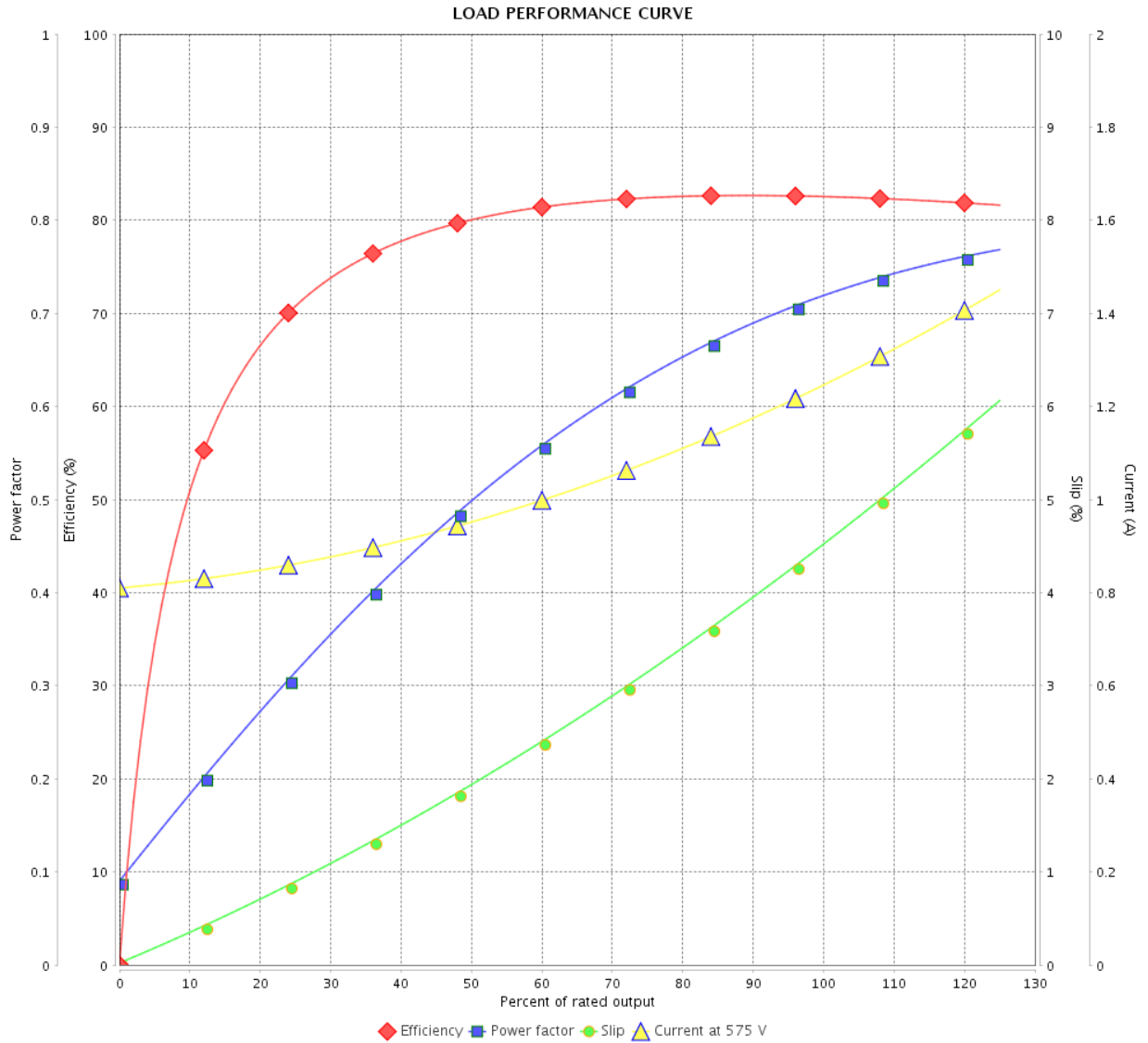
Product line : Premium Efficiency Three-Phase

Product code :

14786537

Catalog # :

00112ET3H56CFL-S



Performance : 575 V 60 Hz 6P

Rated current : 1.26 A  
 LRC : 5.8  
 Rated torque : 4.59 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 280 %  
 Rated speed : 1145 rpm

Moment of inertia (J) : 0.1597 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 3 / 5	Revision
Checked by				
Date	11/04/2022			

# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



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

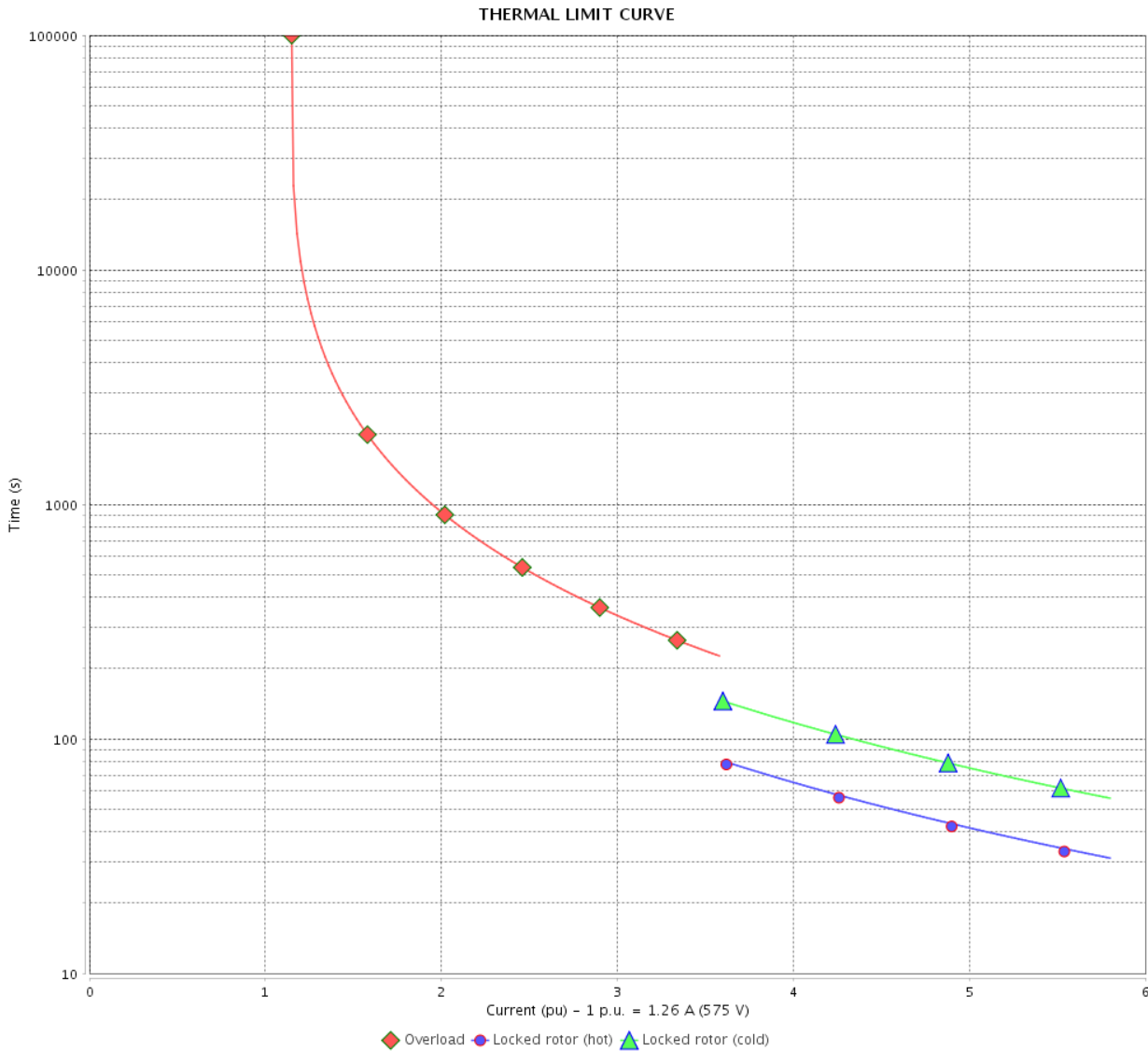
Product line : Premium Efficiency Three-Phase

Product code :

14786537

Catalog # :

00112ET3H56CFL-S



Performance : 575 V 60 Hz 6P

Rated current : 1.26 A  
 LRC : 5.8  
 Rated torque : 4.59 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 280 %  
 Rated speed : 1145 rpm

Moment of inertia (J) : 0.1597 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

Heating constant

Cooling constant

Rev.	Changes Summary	Performed	Checked	Date
Performed by	11/04/2022	Page		Revision
Checked by		4 / 5		
Date				

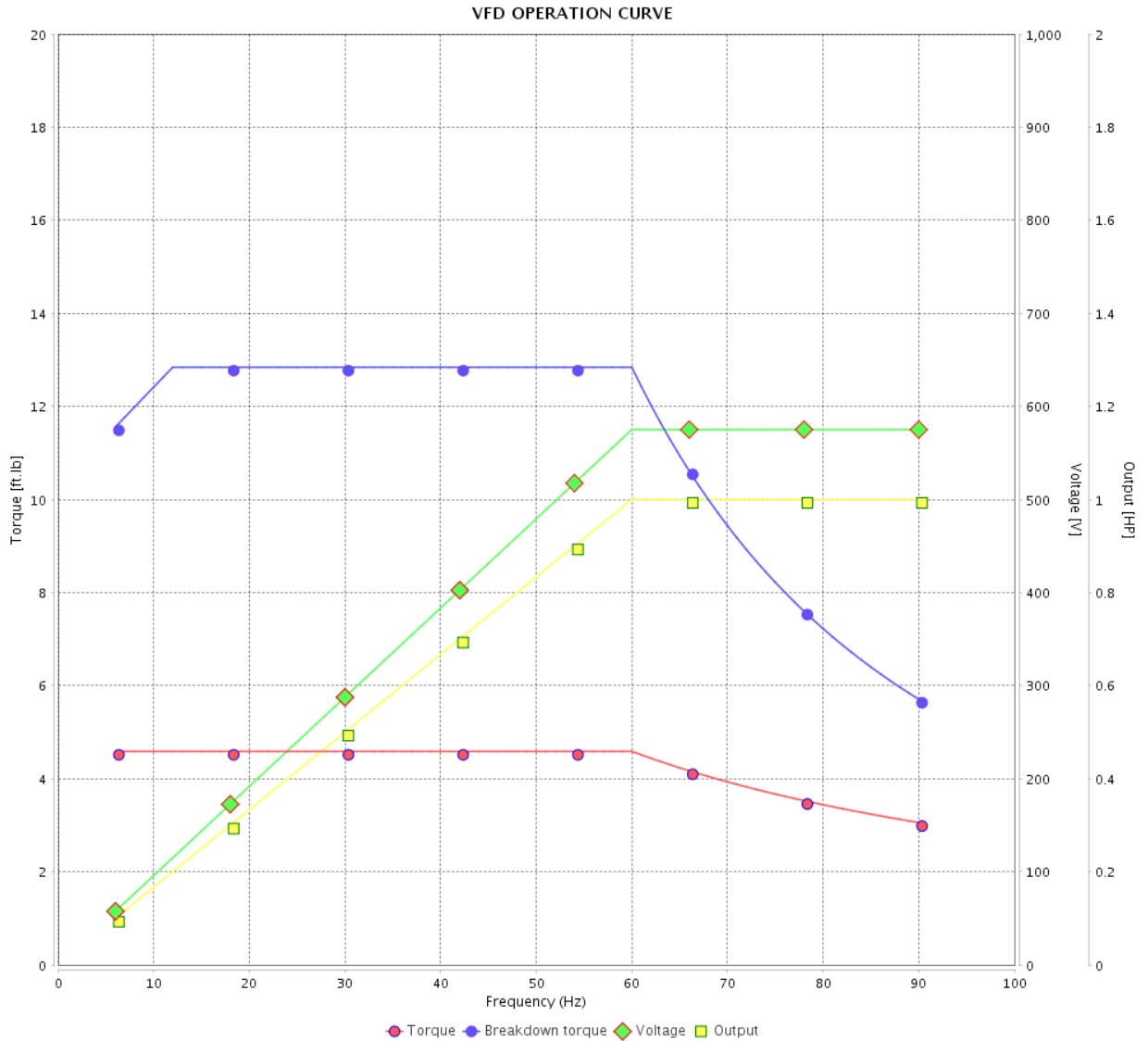
# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase      Product code : 14786537  
 Catalog # : 00112ET3H56CFL-S

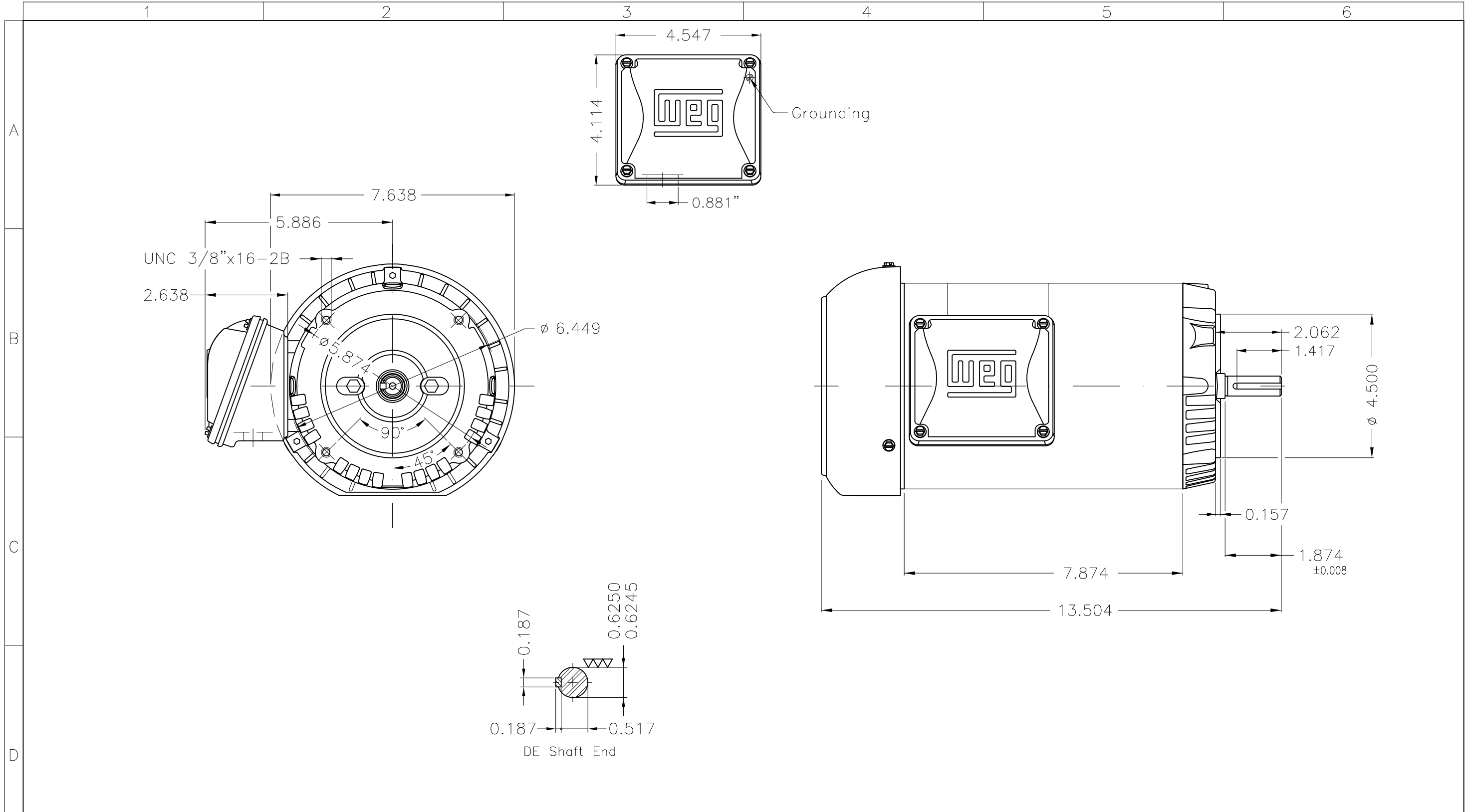


Performance : 575 V 60 Hz 6P

Rated current : 1.26 A  
 LRC : 5.8  
 Rated torque : 4.59 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 280 %  
 Rated speed : 1145 rpm

Moment of inertia (J) : 0.1597 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 5 / 5	Revision
Checked by				
Date	11/04/2022			



Dimensions in inches

Fan cover - steel plate  
 Color Munsell N 1 matte black  
 Painting plan 207N  
 Mounting F-1/B14R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF. FRAME 56C IP55 TEFC					
CHECKED							
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET 1 / 1			

**PREVIEW**  
WDD



1 HP 06 Poles 60 Hz



**NEMA**  
**Premium**



MADE IN MEXICO

**MAT: 14786537 CC029A**

**W01.TE0IC0X0X**

**MODEL 00112ET3H56CFL-S**

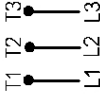
**25MAR2022 B/N:**

**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**

<b>PH 3</b>	<b>Hz 60</b>	<b>HP 1.0</b>
<b>FR 56C</b>		<b>KW 0.75</b>
<b>DUTY CONT.</b>		<b>V 575</b>
<b>ALT 1000 m.a.s.l.</b>		<b>A 1.26</b>
<b>INS CL F AT 80K</b>	<b>IP55</b>	<b>SFA 1.45</b>
<b>AMB 40°C</b>	<b>DES B</b>	<b>SF 1.15</b>
<b>ENCL TEFC</b>	<b>CODE J</b>	<b>PF 0.72</b>
		<b>RPM 1145</b>
		<b>NEMA</b>
		<b>NOM. EFF 82.5%</b>

**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.**

