

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : Rolled Steel Three-Phase		Product code : 14593685 Catalog # : 00118ET3EBM56CFL-S			
Frame : 56C Output : 1 HP (0.75 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 230/460 V Rated current : 2.94/1.47 A L. R. Amperes : 25.3/12.6 A LRC : 8.6x(Code M) No load current : 1.78/0.890 A Rated speed : 1765 rpm Slip : 1.94 % Rated torque : 2.98 ft.lb Locked rotor torque : 280 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1232 sq.ft.lb Design : B		Locked rotor time : 34s (cold) 19s (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> : 52.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 47.6 lb			
Output	50%	75%	100%	Foundation loads Max. traction : 93 lb Max. compression : 140 lb	
Efficiency (%)	82.5	84.0	85.5		
Power Factor	0.52	0.66	0.75		
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6204 ZZ	6203 ZZ		
Sealing	:	V'Ring	V'Ring		
Lubrication interval	:	-	-		
Lubricant amount	:	-	-		
Lubricant type	:	Mobil Polyrex EM			
Notes USABLE @208V 3.25A SF 1.00 SFA 3.25A					
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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Checked by					
Date	10/04/2020			Page 1 / 6	Revision

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### Brake information

Voltage: 208-230/460//190/380 V  
Brake Torque: 5.90 ft.lb

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Date	10/04/2020				

# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

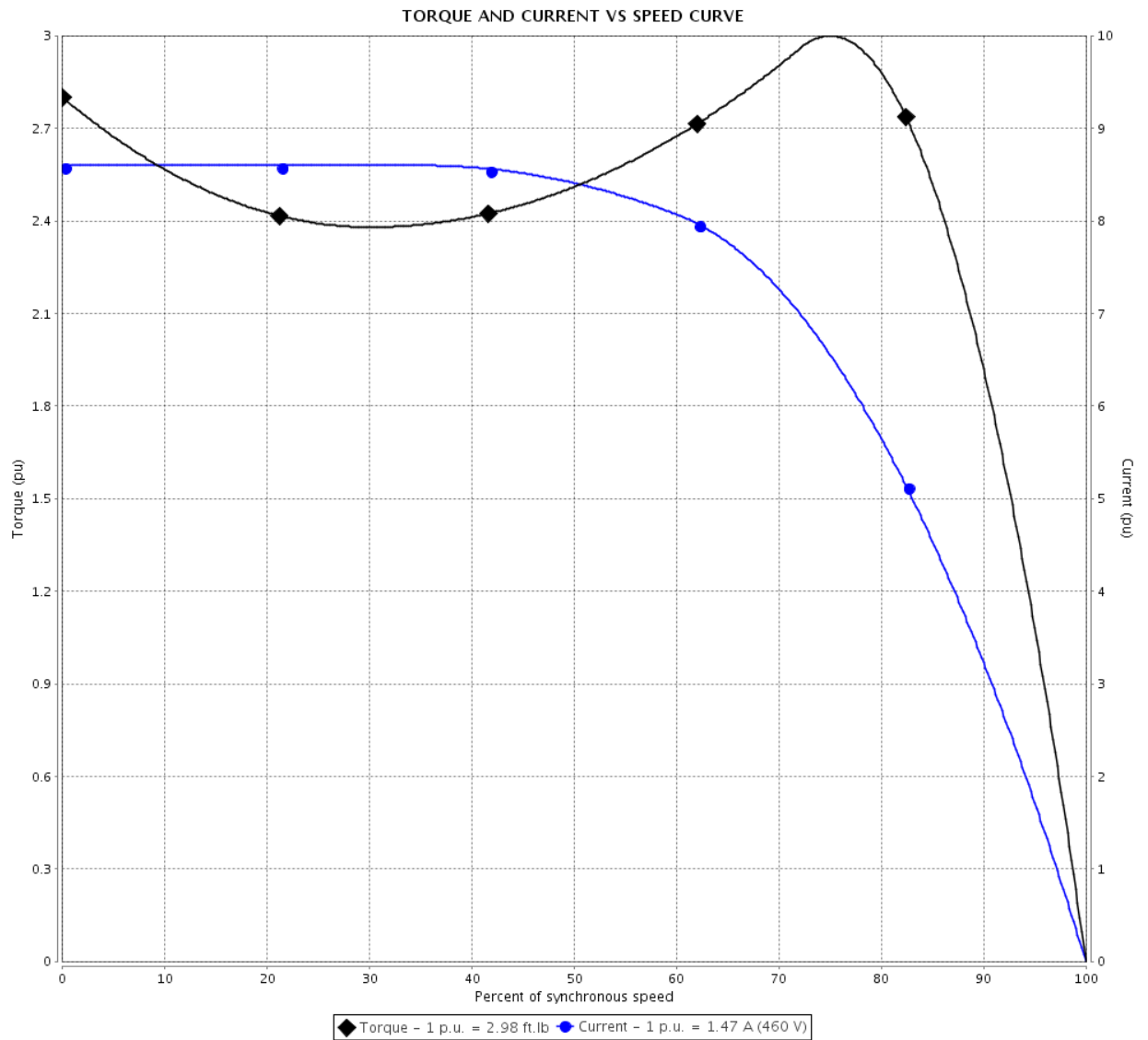
Product line : Rolled Steel Three-Phase

Product code :

14593685

Catalog # :

00118ET3EBM56CFL-S



Performance : 230/460 V 60 Hz 4P

Rated current : 2.94/1.47 A  
 LRC : 8.6  
 Rated torque : 2.98 ft.lb  
 Locked rotor torque : 280 %  
 Breakdown torque : 300 %  
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.1232 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : B

Locked rotor time : 34s (cold) 19s (hot)

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Subject to change without notice

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

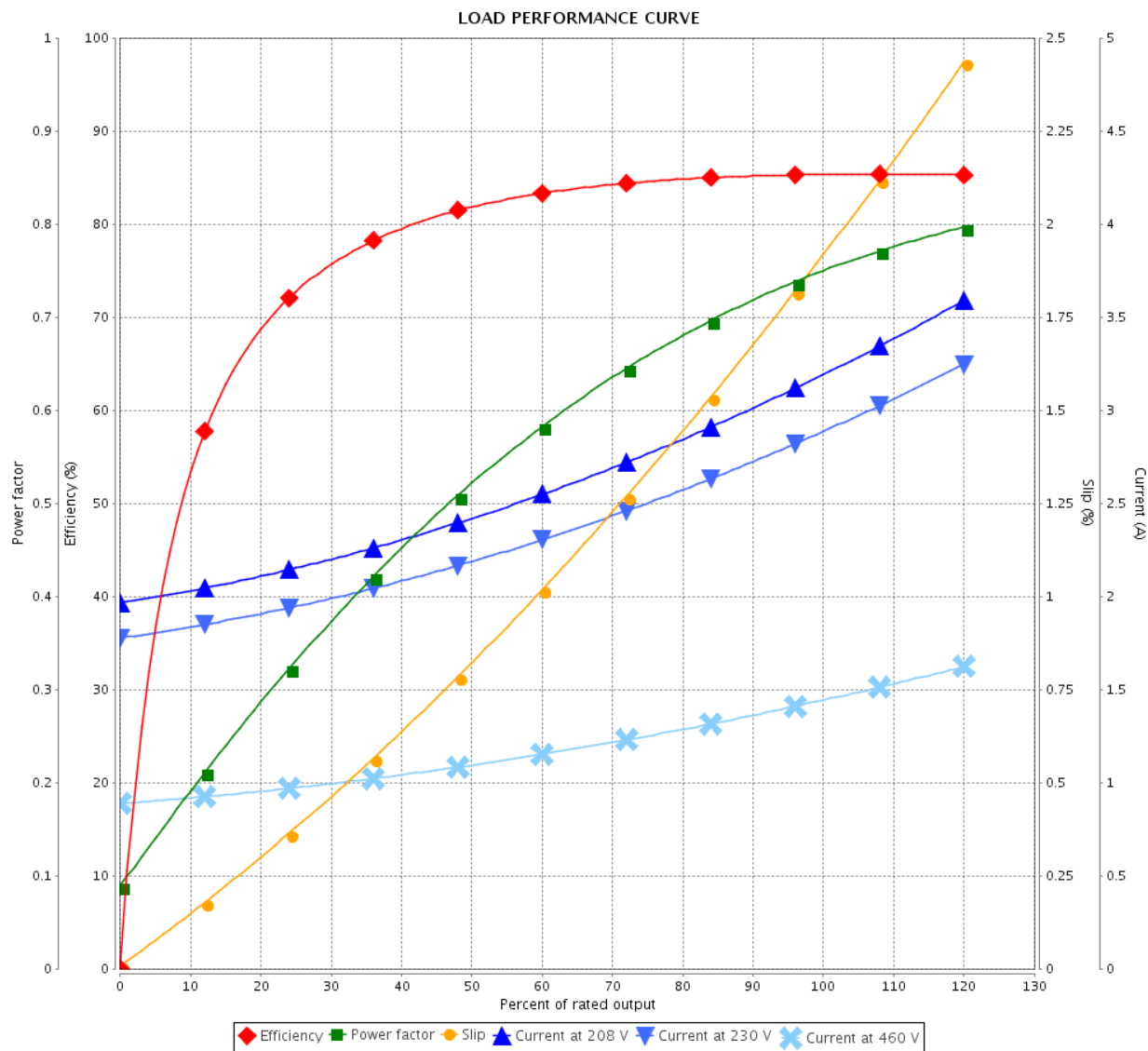
Product line : Rolled Steel Three-Phase

Product code :

14593685

Catalog # :

00118ET3EBM56CFL-S



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Rated current : 2.94/1.47 A  
 LRC : 8.6  
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 Rated speed : 1765 rpm

Moment of inertia (J) : 0.1232 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : B

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# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

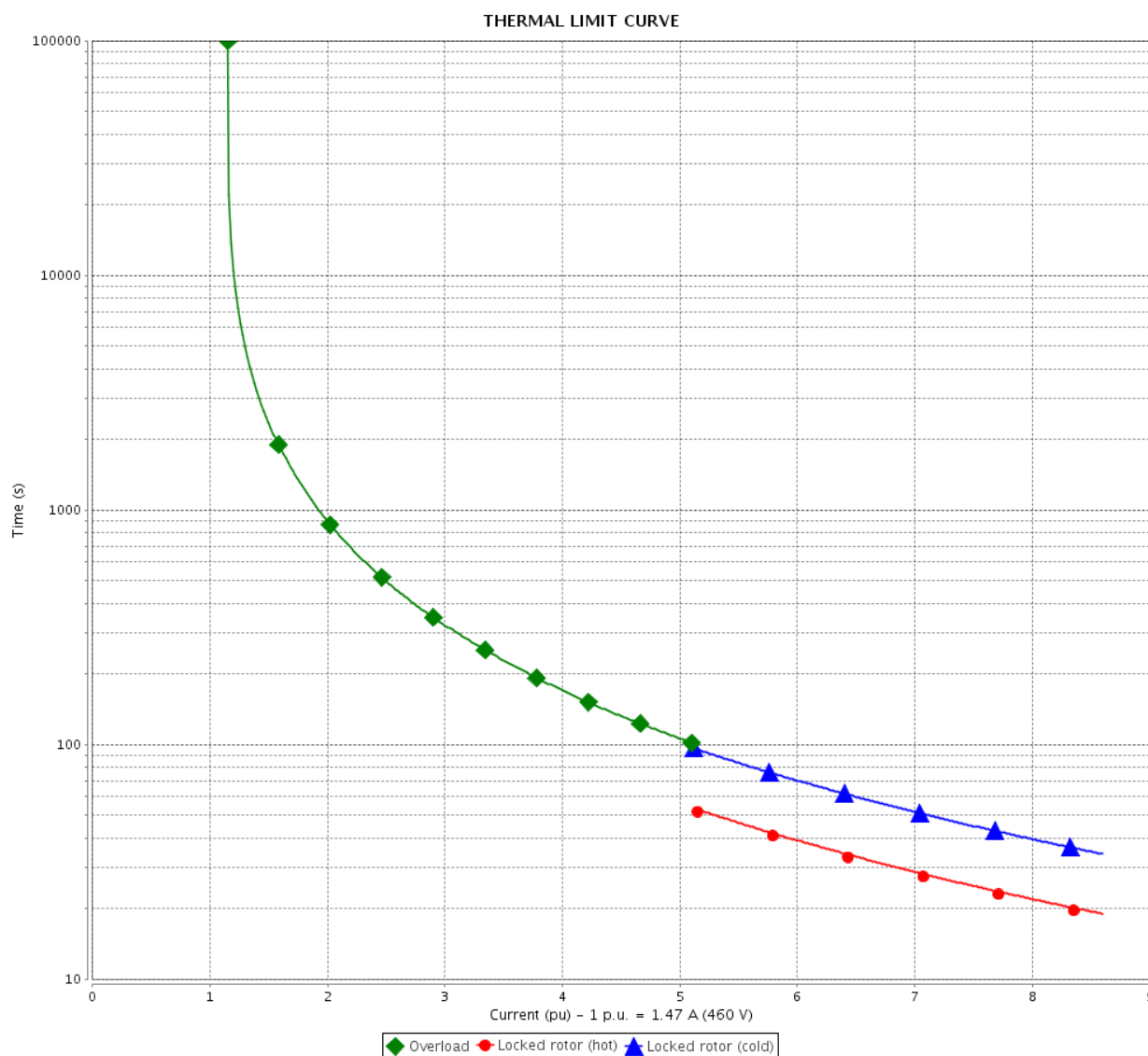
Product line : Rolled Steel Three-Phase

Product code :

14593685

Catalog # :

00118ET3EBM56CFL-S



Performance : 230/460 V 60 Hz 4P

Rated current : 2.94/1.47 A  
 LRC : 8.6  
 Rated torque : 2.98 ft.lb  
 Locked rotor torque : 280 %  
 Breakdown torque : 300 %  
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.1232 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : B

Heating constant

Cooling constant

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		Revision		

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

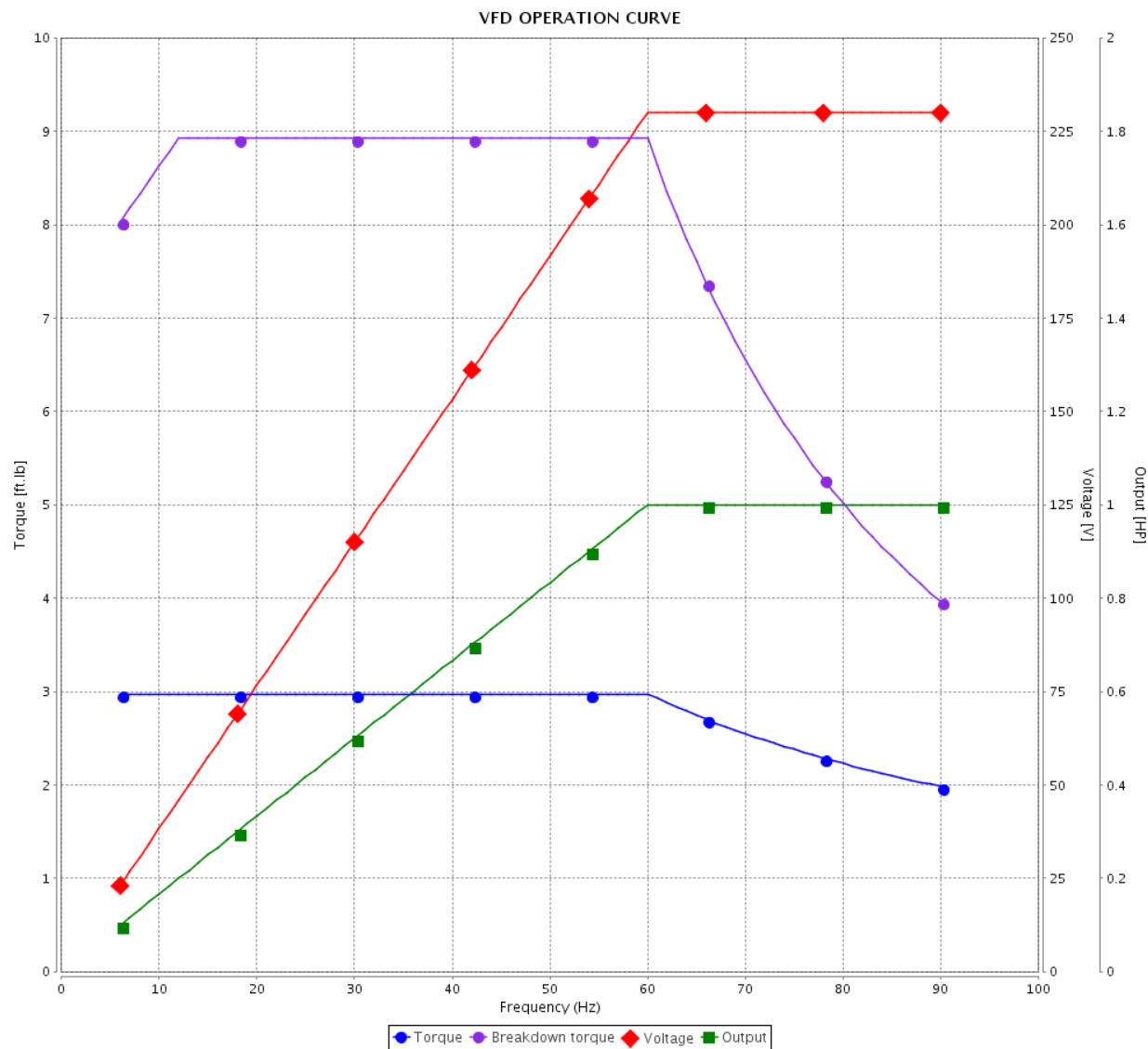
Product line : Rolled Steel Three-Phase

Product code :

14593685

Catalog # :

00118ET3EBM56CFL-S

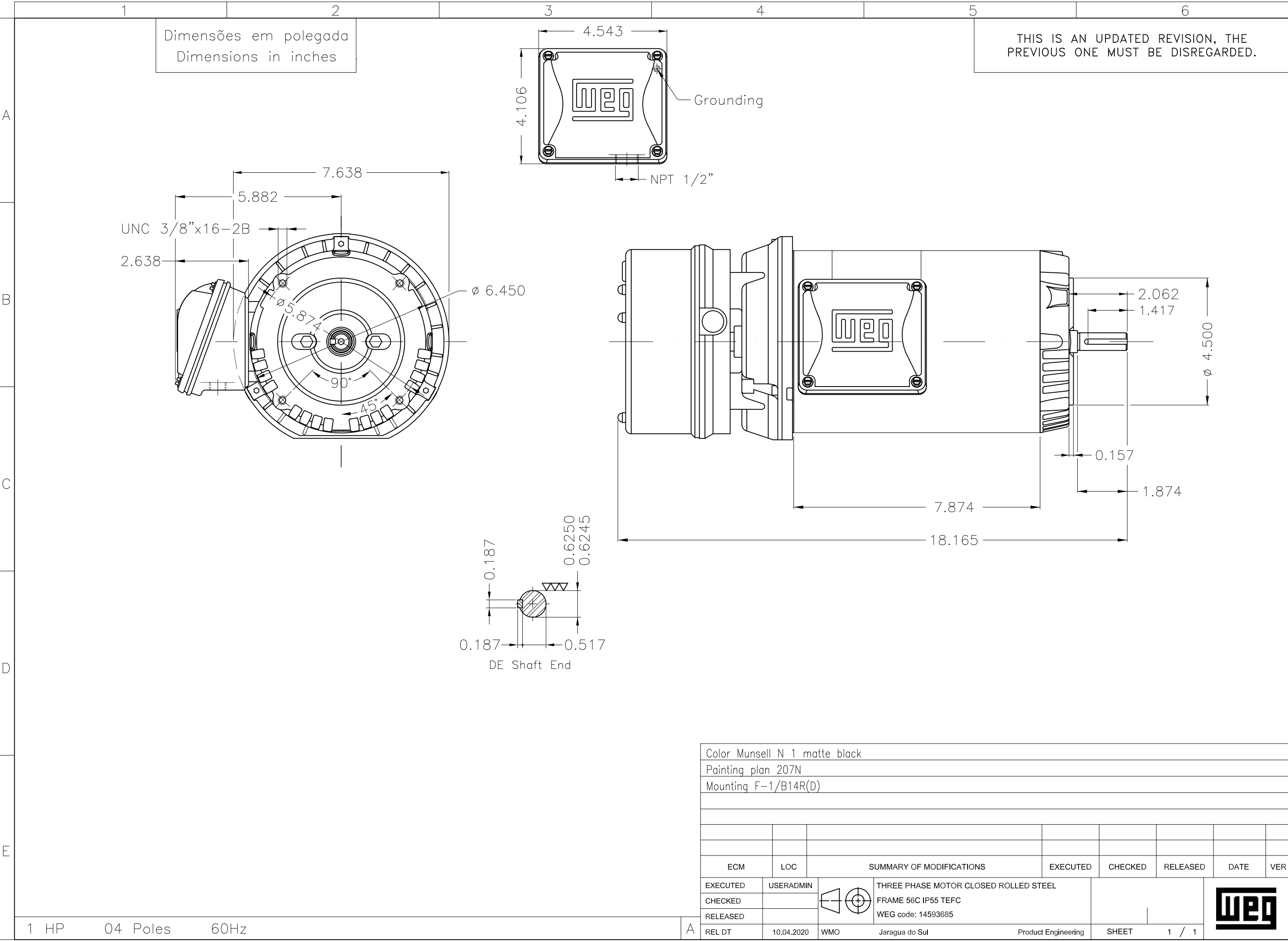


Performance : 230/460 V 60 Hz 4P

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 Rated torque : 2.98 ft.lb  
 Locked rotor torque : 280 %  
 Breakdown torque : 300 %  
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.1232 sq.ft.lb  
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 Insulation class : F  
 Service factor :  
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 Design : B

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**NEMA**  
**Premium**

**UL** C<sup>3</sup>PT9  
US LISTED  
FOR SAFE AREA

**SP** C<sup>3</sup>PT9  
US  
Energy Verified

MADE IN MEXICO

**MAT: 14593685 CC029A**

**W01.TE0IC0X0X**

**MODEL 00118ET3EBM56CFL-S**  
**02ABR2019**

**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>FR</b>	<b>56C</b>	<b>HP(KW)</b>	<b>1.0(0.75)</b>	<b>Hz</b>	<b>60</b>
<b>V</b>	<b>230/460</b>		<b>RPM</b>	<b>1765</b>		
<b>A</b>	<b>2.94/1.47</b>		<b>DUTY CONT.</b>			
<b>SFA</b>	<b>3.38/1.69</b>		<b>CODE M</b>	<b>DES B</b>	<b>IP55</b>	
<b>SF</b>	<b>1.15</b>	<b>INS CL F AT</b>	<b>80K</b>	<b>AMB 40°C</b>	<b>ENCL</b>	<b>TEFC</b>
<b>PF</b>	<b>0.75</b>		<b>NEMA NOM.EFF. 85.5%</b>			

**ALT 1000 m.a.s.l. USABLE @ 208V 3.25A SF1.00**

**ALTERNATE RATING: 1.0HP 50Hz 190-220/380-415V SF1.00**  
**3.40-3.06/1.70-1.62A 1450RPM EFF 82.9% (IE3) IEC 60034-1**



INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

**For safe area-Inverter duty For 60Hz use on VPWM 1000:1 VT, 5:1 CT**

**DE: 6204-ZZ ODE: 6203-ZZ MOBIL POLYREX EM**

**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.

