

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: Premium Efficiency Three-Phase		Product code :	13484630	
				Catalog # :	00136ET3HW56-S	
Frame	: W56		Locked rotor time	: 18s (cold) 10s (hot)		
Output	: 1 HP (0.75 kW)		Temperature rise	: 80 K		
Poles	: 2		Duty cycle	: Cont.(S1)		
Frequency	: 60 Hz		Ambient temperature	: -20°C to +40°C		
Rated voltage	: 575 V		Altitude	: 1000 m.a.s.l.		
Rated current	: 1.20 A		Protection degree	: IP55		
L. R. Amperes	: 10.6 A		Cooling method	: IC411 - TEFC		
LRC	: 8.8x(Code M)		Mounting	: F-1		
No load current	: 0.638 A		Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 3435 rpm		Noise level <sup>2</sup>	: 65.0 dB(A)		
Slip	: 4.58 %		Starting method	: Direct On Line		
Rated torque	: 1.53 ft.lb		Approx. weight <sup>3</sup>	: 21.5 lb		
Locked rotor torque	: 360 %					
Breakdown torque	: 380 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.0254 sq.ft.lb					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	72.4	74.0	77.0	78.5	Max. traction : 46 lb	
Power Factor	0.38	0.63	0.75	0.80	Max. compression : 67 lb	
			<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:		6202 ZZ		6202 ZZ	
Sealing	:		V'Ring		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.			
Rev.	Changes Summary			Performed	Checked	Date
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# TORQUE AND CURRENT VS SPEED CURVE

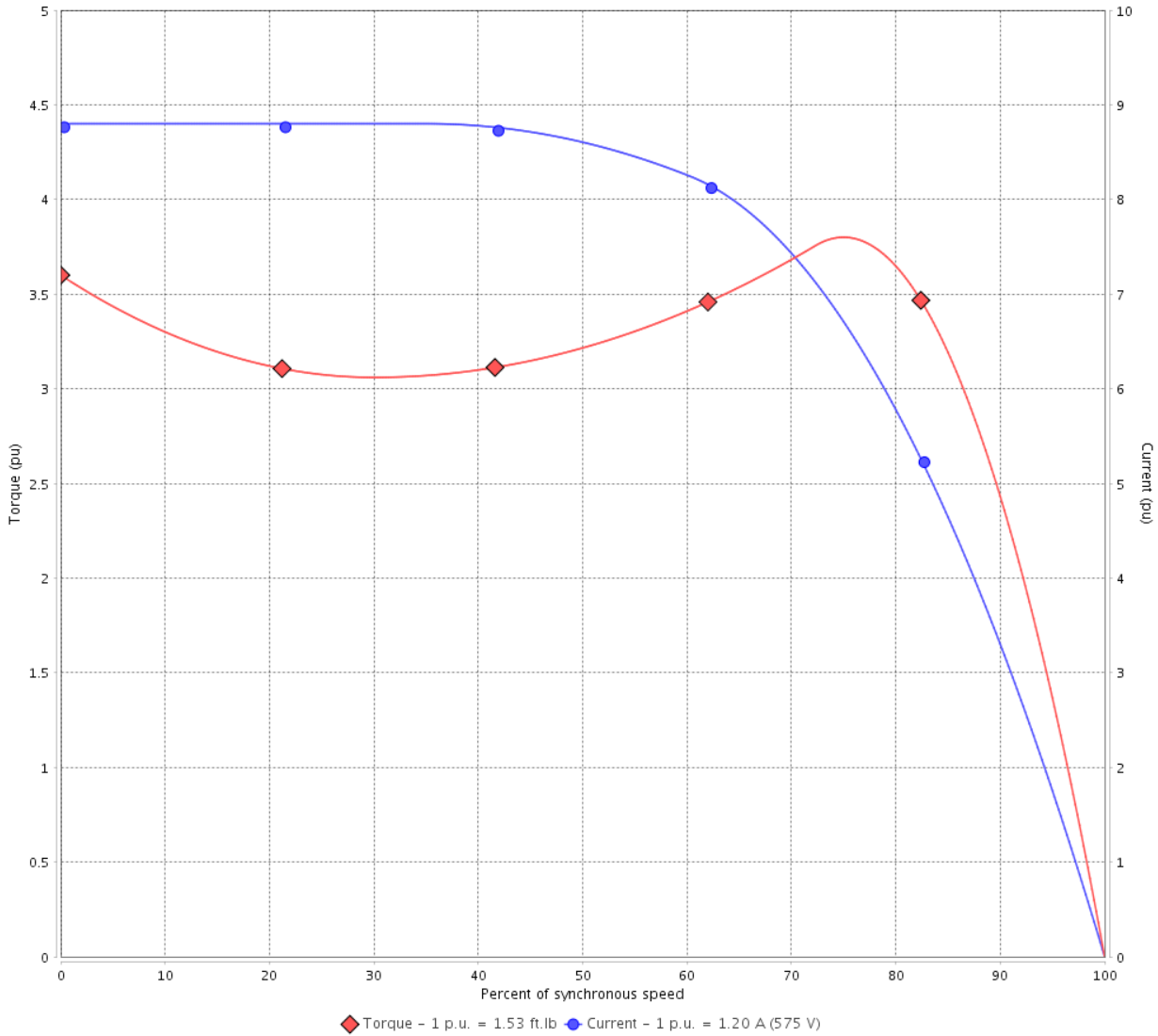
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase      Product code : 13484630  
 Catalog # : 00136ET3HW56-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 1.20 A	Moment of inertia (J)	: 0.0254 sq.ft.lb
LRC	: 8.8	Duty cycle	: Cont.(S1)
Rated torque	: 1.53 ft.lb	Insulation class	: F
Locked rotor torque	: 360 %	Service factor	: 1.15
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 3435 rpm		

Locked rotor time : 18s (cold) 10s (hot)

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Date	11/04/2022			

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



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

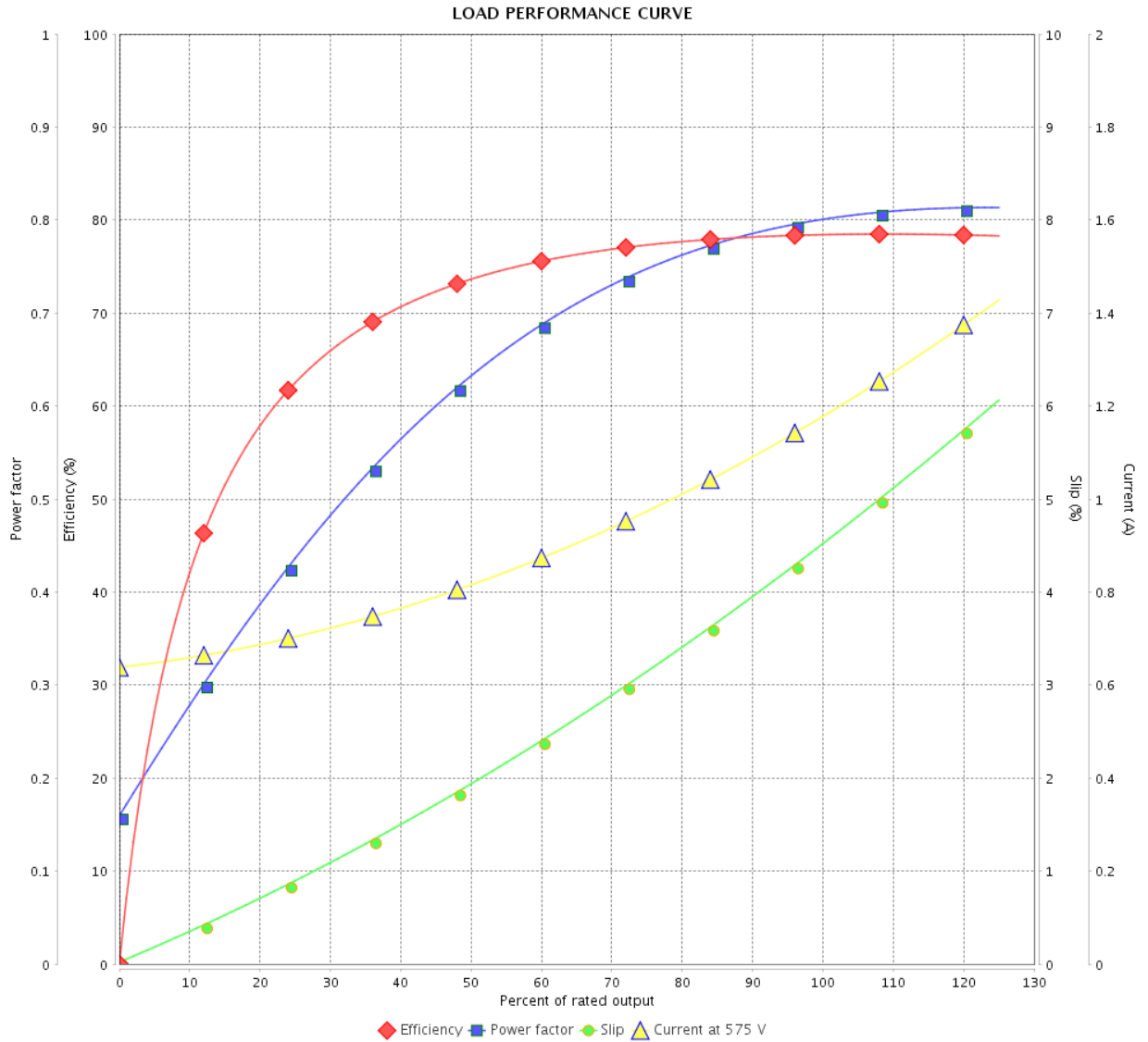
Product line : Premium Efficiency Three-Phase

Product code :

13484630

Catalog # :

00136ET3HW56-S



Performance : 575 V 60 Hz 2P

Rated current : 1.20 A  
 LRC : 8.8  
 Rated torque : 1.53 ft.lb  
 Locked rotor torque : 360 %  
 Breakdown torque : 380 %  
 Rated speed : 3435 rpm

Moment of inertia (J) : 0.0254 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase

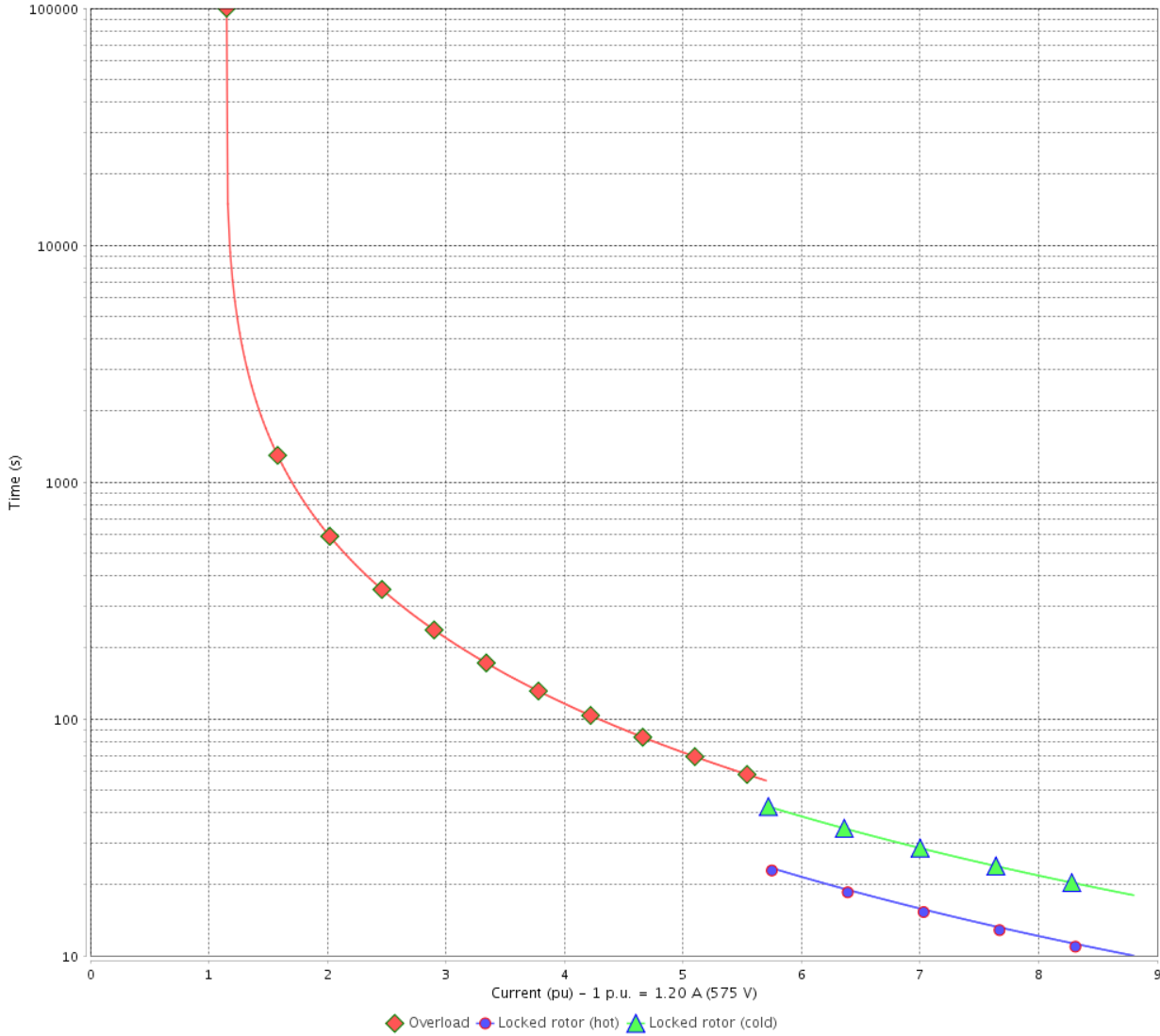
Product code :

13484630

Catalog # :

00136ET3HW56-S

THERMAL LIMIT CURVE



Performance : 575 V 60 Hz 2P

Rated current : 1.20 A  
 LRC : 8.8  
 Rated torque : 1.53 ft.lb  
 Locked rotor torque : 360 %  
 Breakdown torque : 380 %  
 Rated speed : 3435 rpm

Moment of inertia (J) : 0.0254 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

Heating constant

Cooling constant

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# VFD OPERATION CURVE

## Three Phase Induction Motor - Squirrel Cage



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

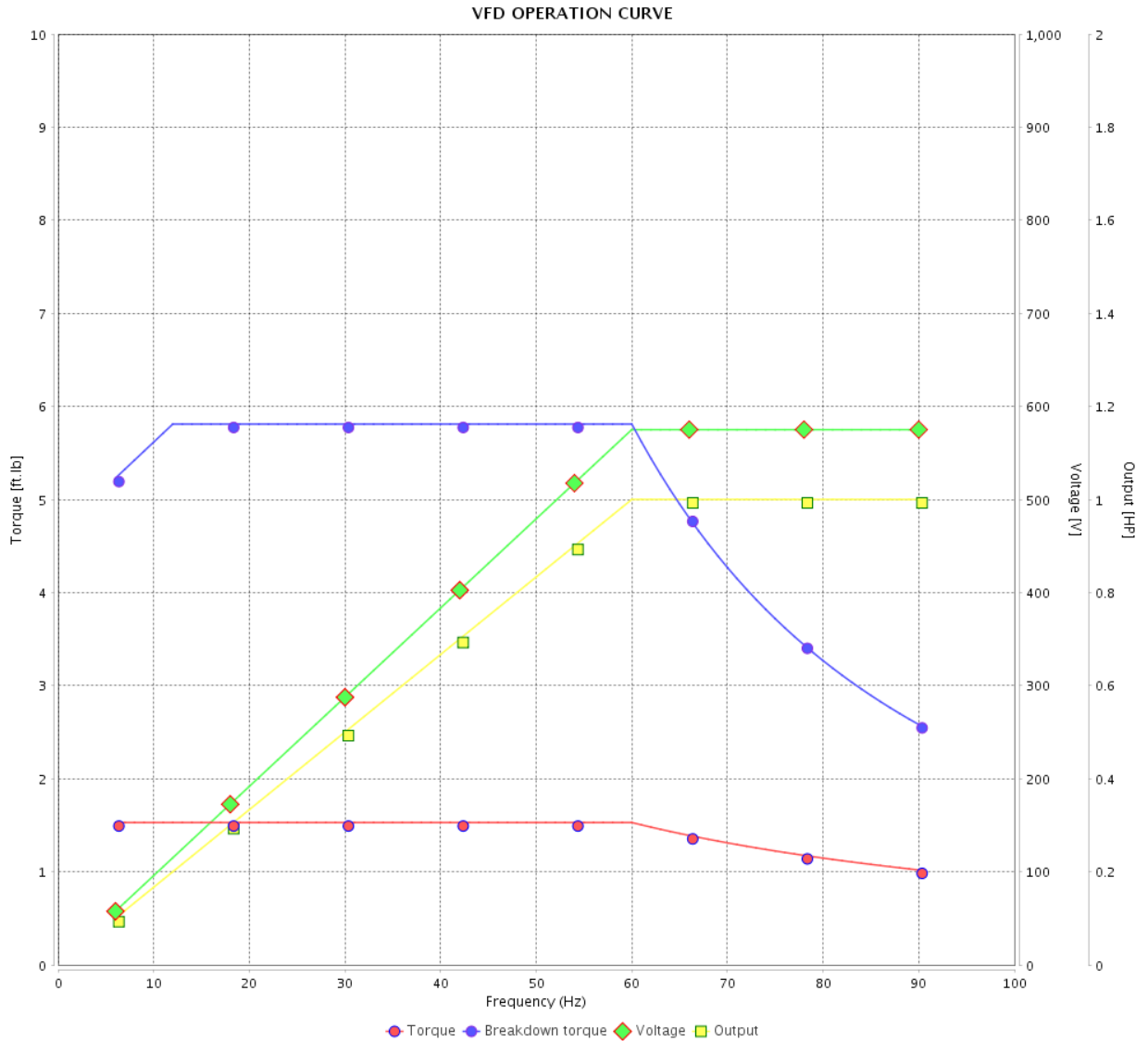
Product line : Premium Efficiency Three-Phase

Product code :

13484630

Catalog # :

00136ET3HW56-S



Performance : 575 V 60 Hz 2P

Rated current : 1.20 A  
 LRC : 8.8  
 Rated torque : 1.53 ft.lb  
 Locked rotor torque : 360 %  
 Breakdown torque : 380 %  
 Rated speed : 3435 rpm

Moment of inertia (J) : 0.0254 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
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Date	11/04/2022			

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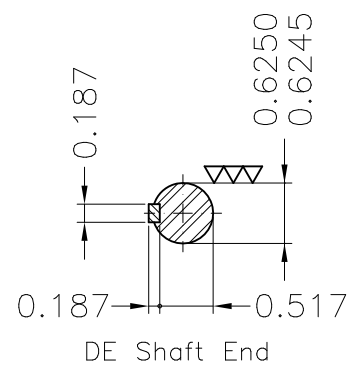
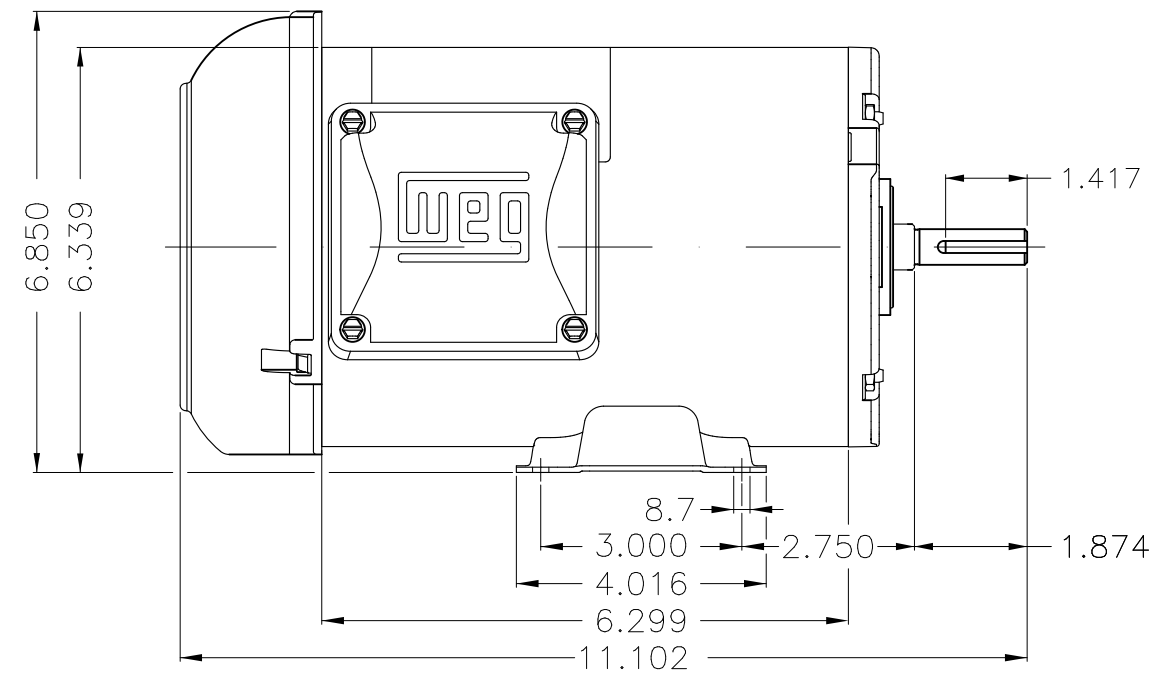
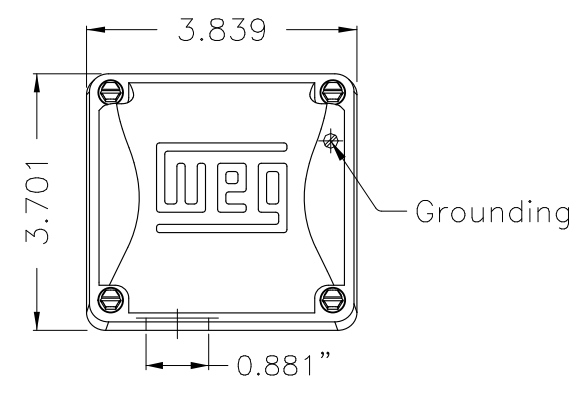
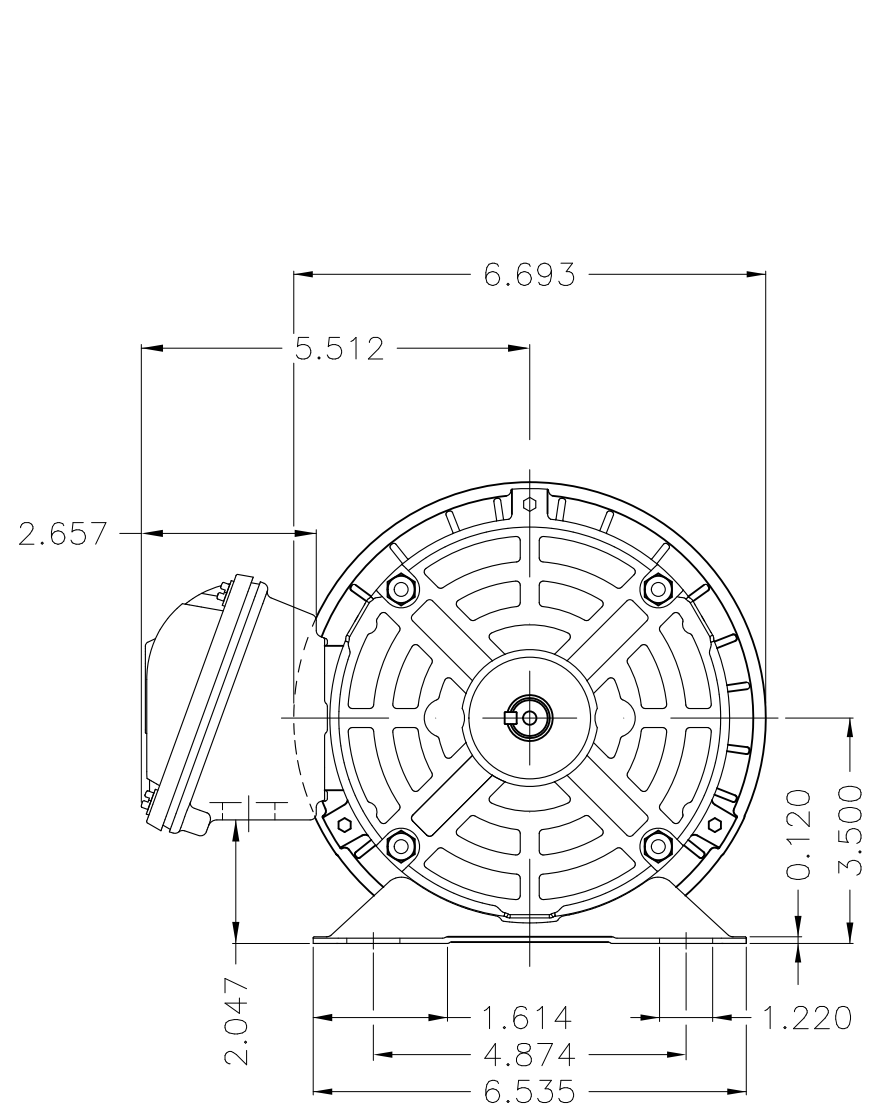
A

B


C

D

E



Dimensions in inches

Without coating										
Mounting F-1/B3R(D)										
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF.				PREVIEW	WDD	SHEET	1 / 1	
CHECKED		FRAME W56 IP55 TEFC								
RELEASED										
REL DT.		WMO	Jaragua do Sul	Product Engineering						

1 HP 02 Poles 60 Hz

A

XME A3



**NEMA**  
**Premium**



MADE IN BRAZIL

**MAT: 13484630**

**W01.TE0IC0X0X**

**MODEL 00136ET3HW56-S**

**16MAR2022 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 W58</b>		<b>KW 0.75</b>
<b>DUTY CONT.</b>		<b>V 575</b>
<b>ALT 1000 m.a.s.l.</b>		<b>A 1.20</b>
<b>INS CL F AT 80K</b>	<b>IP55</b>	<b>SFA 1.38</b>
<b>AMB 40°C</b>	<b>DES -</b>	<b>SF 1.15</b>
<b>ENCL TEFC</b>	<b>CODE M</b>	<b>PF 0.80</b>
		<b>RPM 3435</b>
		<b>NEMA NOM. EFF 78.5%</b>

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

**DE 6203-ZZ ODE 6202-ZZ MOBIL POLYREX EM**

T1 T2 T3  
  
L1 L2 L3  


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.

