

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer	: Automation Direct				
Product line	: Premium Efficiency Three-Phase		Product code :	14799100	
			Catalog # :	00218ET3E56-S	
Frame	: 56H		Locked rotor time	: 27s (cold) 15s (hot)	
Output	: 2 HP (1.5 kW)		Temperature rise	: 80 K	
Poles	: 4		Duty cycle	: Cont.(S1)	
Frequency	: 60 Hz		Ambient temperature	: -20°C to +40°C	
Rated voltage	: 230/460 V		Altitude	: 1000 m.a.s.l.	
Rated current	: 5.44/2.72 A		Protection degree	: IP55	
L. R. Amperes	: 44.6/22.3 A		Cooling method	: IC411 - TEFC	
LRC	: 8.2x(Code K)		Mounting	: F-1	
No load current	: 2.80/1.40 A		Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	: 1745 rpm		Noise level <sup>2</sup>	: 52.0 dB(A)	
Slip	: 3.06 %		Starting method	: Direct On Line	
Rated torque	: 6.02 ft.lb		Approx. weight <sup>3</sup>	: 42.4 lb	
Locked rotor torque	: 270 %				
Breakdown torque	: 300 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.1296 sq.ft.lb				
Design	: B				
Output	25%	50%	75%	100%	
Efficiency (%)	86.0	85.5	87.5	86.5	
Power Factor	0.35	0.60	0.73	0.80	
	Foundation loads				
			Max. traction	: 194 lb	
			Max. compression	: 237 lb	
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6204 ZZ	6202 ZZ		
Sealing	:	V'Ring	Without Bearing Seal		
Lubrication interval	:	-	-		
Lubricant amount	:	-	-		
Lubricant type	:	Mobil Polyrex EM			
Notes					
USABLE @208V 6.02A SF 1.00 SFA 6.02A					
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 : Automation Direct

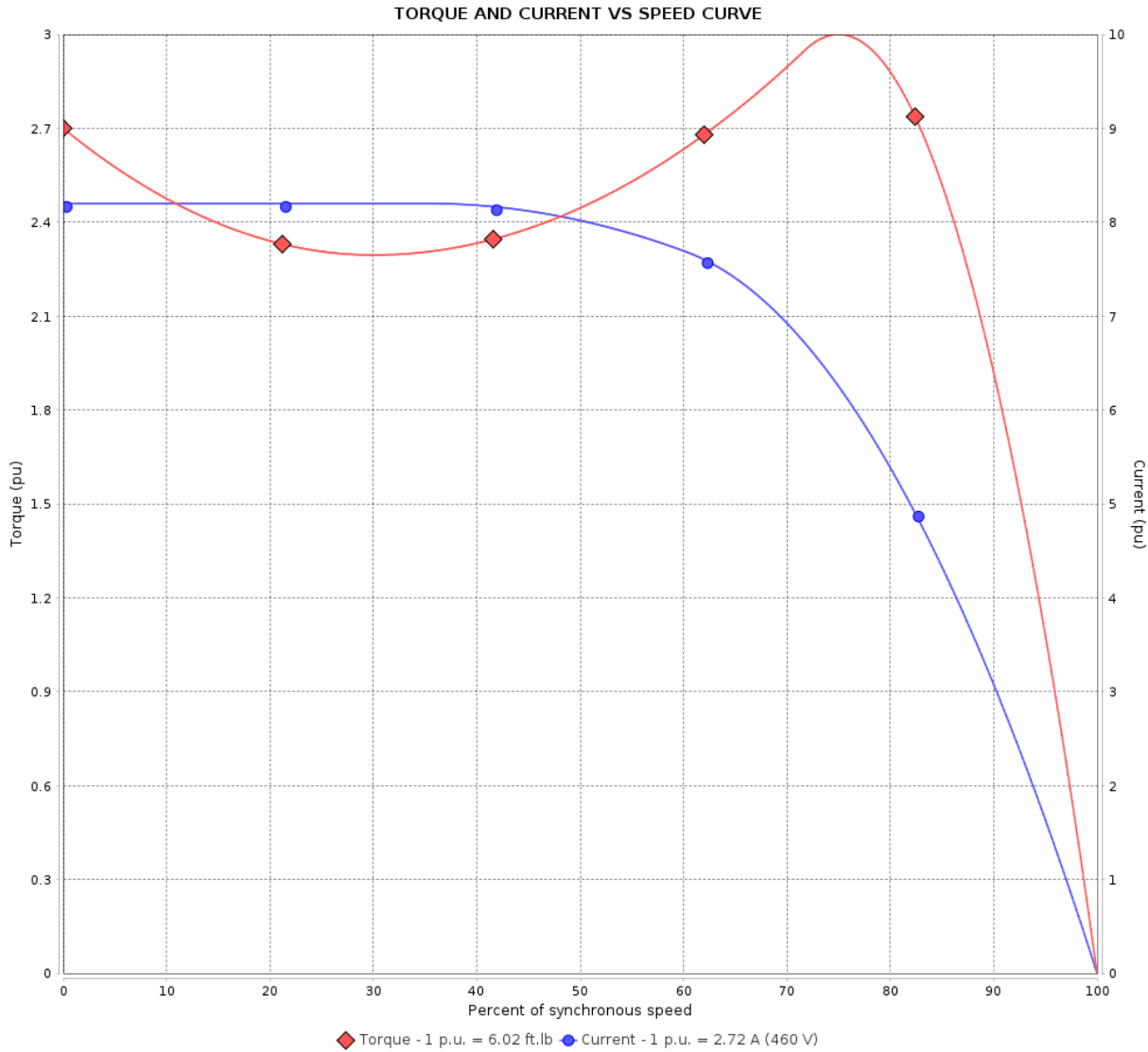
Product line : Premium Efficiency Three-Phase

Product code :

14799100

Catalog # :

00218ET3E56-S



Performance : 230/460 V 60 Hz 4P

Rated current : 5.44/2.72 A  
 LRC : 8.2  
 Rated torque : 6.02 ft.lb  
 Locked rotor torque : 270 %  
 Breakdown torque : 300 %  
 Rated speed : 1745 rpm

Moment of inertia (J) : 0.1296 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : B

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

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

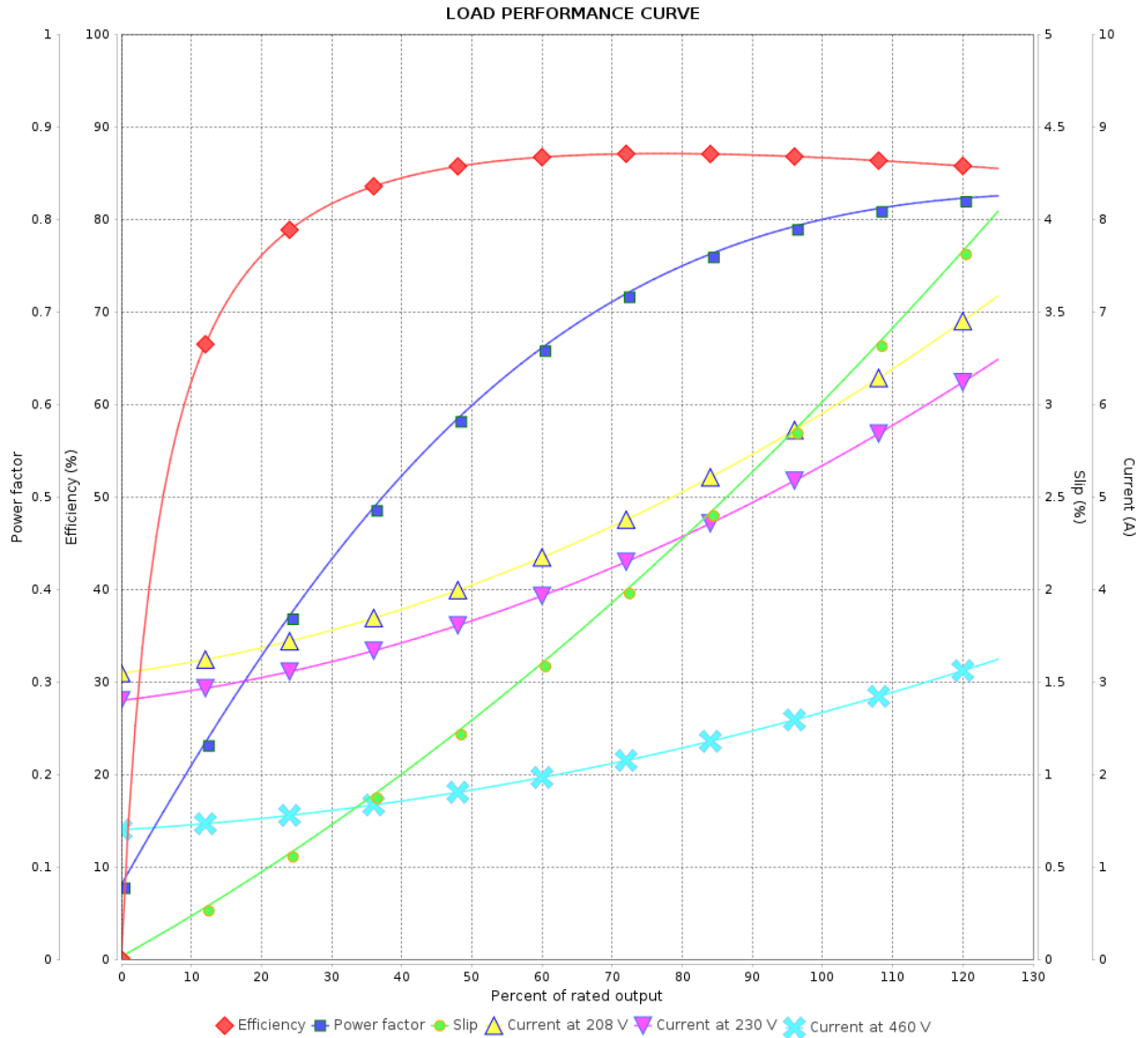


Customer : Automation Direct

Product line : Premium Efficiency Three-Phase

Product code :  
Catalog # :

14799100  
00218ET3E56-S



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# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



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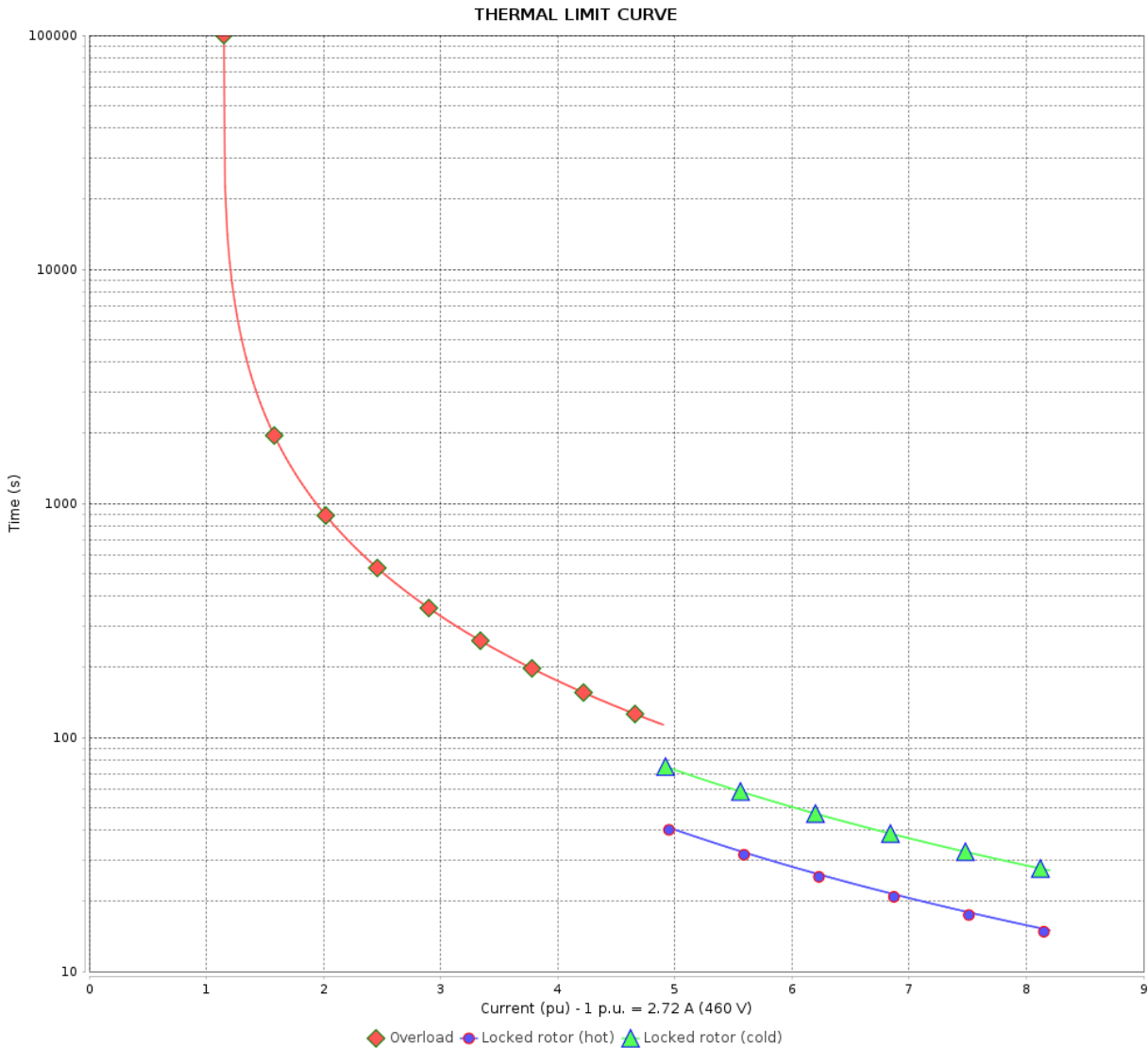
Product line : Premium Efficiency Three-Phase

Product code :

14799100

Catalog # :

00218ET3E56-S



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 Rated torque : 6.02 ft.lb  
 Locked rotor torque : 270 %  
 Breakdown torque : 300 %  
 Rated speed : 1745 rpm

Moment of inertia (J) : 0.1296 sq.ft.lb  
 Duty cycle : Cont.(S1)  
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 Service factor :  
 Temperature rise : 80 K  
 Design : B

Heating constant

Cooling constant

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Date				

# VFD OPERATION CURVE

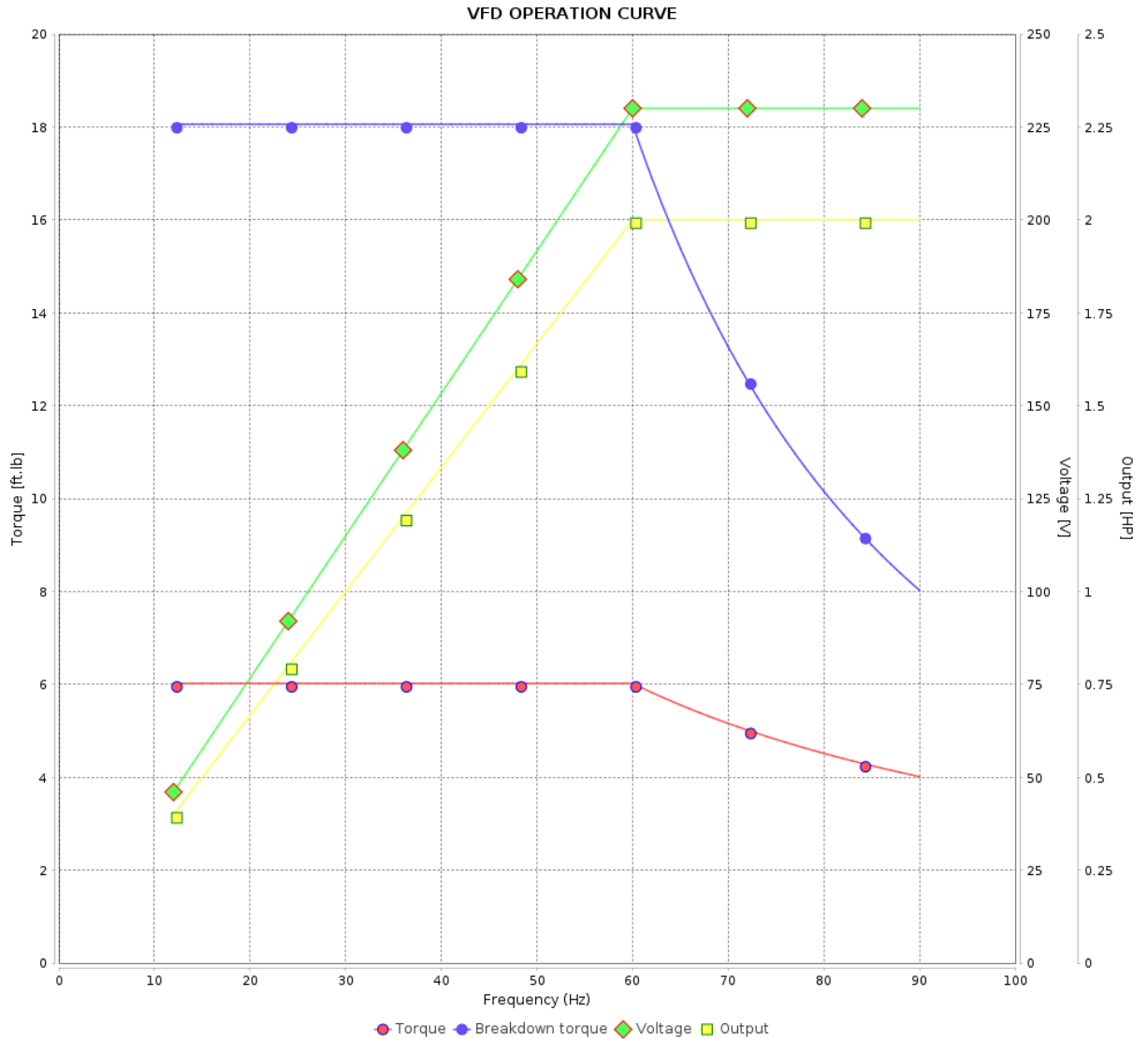
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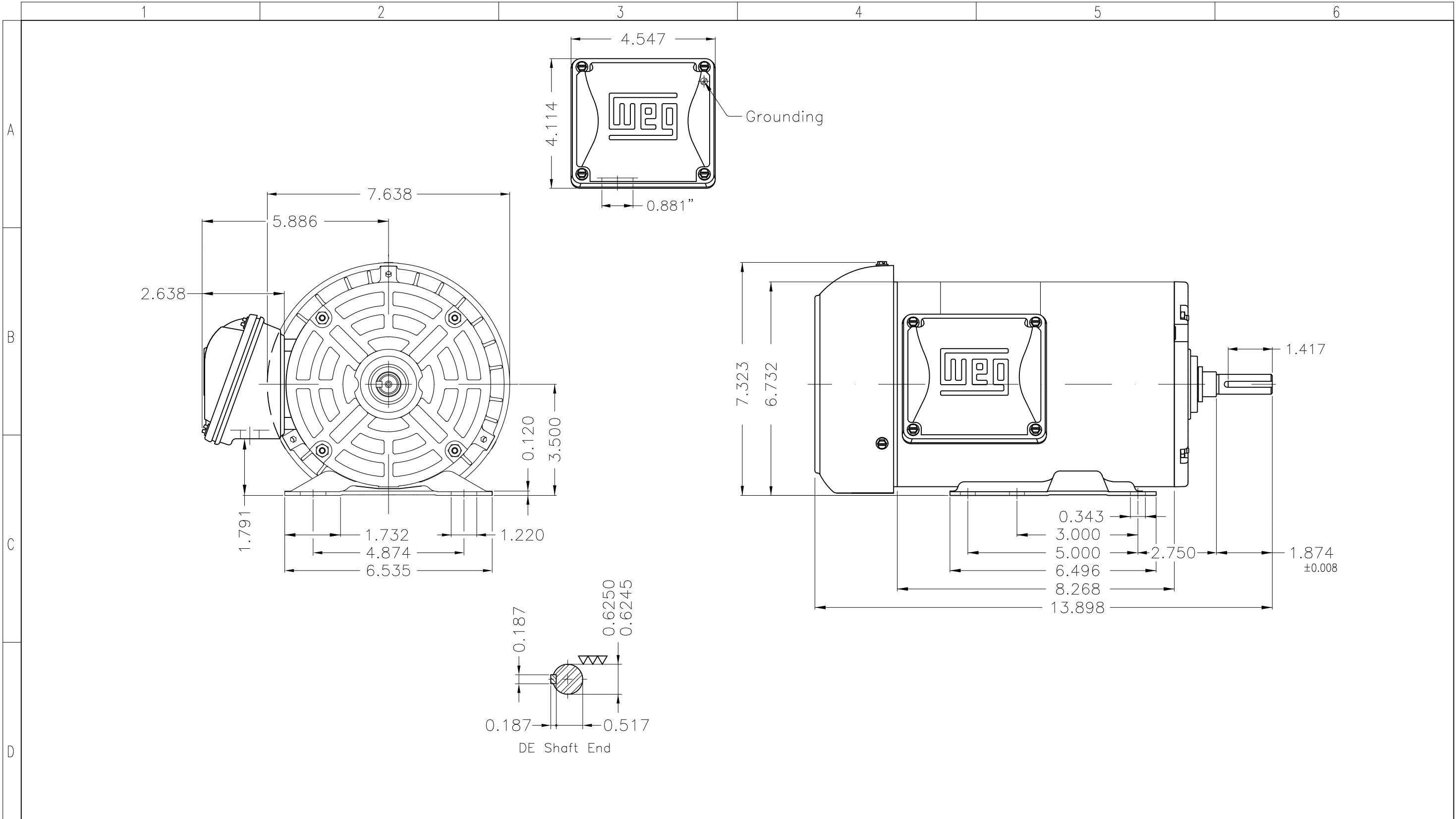


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Fan cover - steel plate										
Without coating										
Mounting B3D										
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF.				PREVIEW		WDD		
CHECKED		FRAME 56H IP55 TEFC				WDD		WEG		
RELEASED						SHEET		1 / 1		
REL DT.		WMO	Jaragua do Sul	Product Engineering						

2 HP 04 Poles 60 Hz



**NEMA**  
**Premium**



MADE IN MEXICO

**MAT: 14799100 CC029A**  
**W01.TE0IC0X0X**  
**MODEL 00218ET3E56-S**  
**02DEC2021 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 2.0
FR 56H		KW 1.5
DUTY CONT.		V 230/460
ALT 1000 m.a.s.l.		A 5.44/2.72
INS CL F AT 80K	IP55	SFA 6.26/3.13
AMB 40°C	DES B	SF 1.15
ENCL TEFC	CODE K	PF 0.80
USABLE @ 208V 6.02A		RPM 1745
SF1.00		NEMA NOM. EFF 86.5%

**ALTERNATE RATING: 2.0HP 50Hz 190-220/380-415V SF1.15**  
**6.50-5.79/3.25-3.07A 1415RPM EFF 82.6% (IE1) IEC 60034-1**

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

**DE 6204-ZZ ODE 6202-ZZ MOBIL POLYREX EM**



T1-BLU T2-WHT  
T3-ORG T4-YEL  
T5-BLK T6-GRY  
T7-PNK T8-RED  
T9-BRK RED

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.

