

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : _____																						
Product line : Premium Efficiency Three-Phase		Product code : 14797809		Catalog # : 00118ET3H56-S																		
Frame : 56 Output : 1 HP (0.75 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 575 V Rated current : 1.18 A L. R. Amperes : 10.1 A LRC : 8.6x(Code M) No load current : 0.712 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 ¹ : Both (CW and CCW) Noise level ² : 52.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 36.7 lb																					
Output	25%	50%	75%	100%																		
Efficiency (%)	81.0	82.5	84.0	85.5																		
Power Factor	0.30	0.52	0.66	0.75																		
Foundation loads																						
Max. traction : 69 lb																						
Max. compression : 106 lb																						
<table style="width:100%; border: none;"> <tr> <td style="width: 30%;"></td> <td style="text-align: center; border: none;"><u>Drive end</u></td> <td style="text-align: center; border: none;"><u>Non drive end</u></td> </tr> <tr> <td>Bearing type :</td> <td style="text-align: center; border: none;">6204 ZZ</td> <td style="text-align: center; border: none;">6202 ZZ</td> </tr> <tr> <td>Sealing :</td> <td style="text-align: center; border: none;">V'Ring</td> <td style="text-align: center; border: none;">Without Bearing Seal</td> </tr> <tr> <td>Lubrication interval :</td> <td style="text-align: center; border: none;">-</td> <td style="text-align: center; border: none;">-</td> </tr> <tr> <td>Lubricant amount :</td> <td style="text-align: center; border: none;">-</td> <td style="text-align: center; border: none;">-</td> </tr> <tr> <td>Lubricant type :</td> <td colspan="2" style="text-align: center; border: none;">Mobil Polyrex EM</td> </tr> </table>						<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	
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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			Date																		
Performed by				Page																		
Checked by				Revision																		
Date	14/04/2022			1 / 5																		

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase

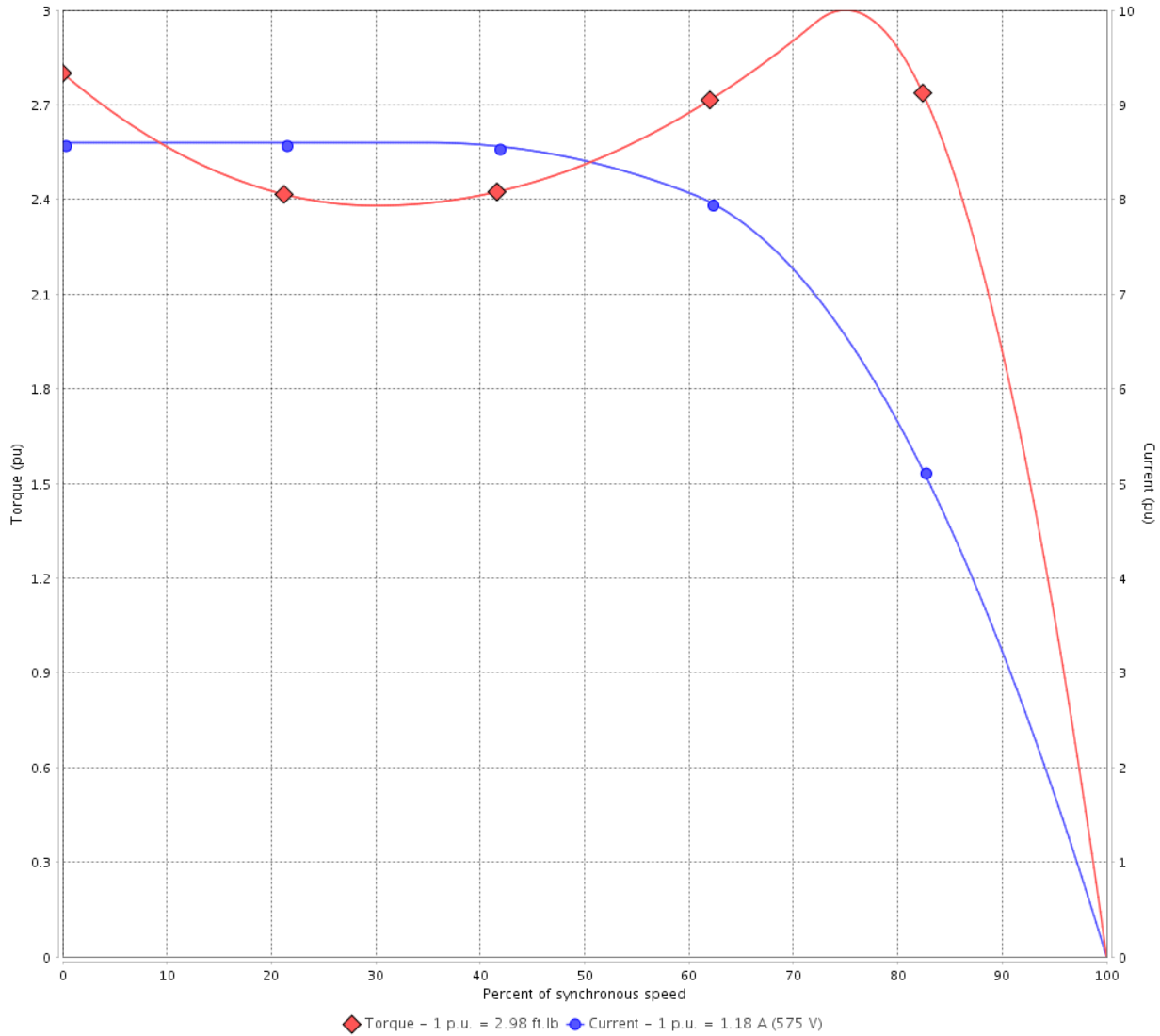
Product code :

14797809

Catalog # :

00118ET3H56-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 4P

Rated current	: 1.18 A	Moment of inertia (J)	: 0.1232 sq.ft.lb
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 2.98 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 5	Revision
Checked by				
Date	14/04/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

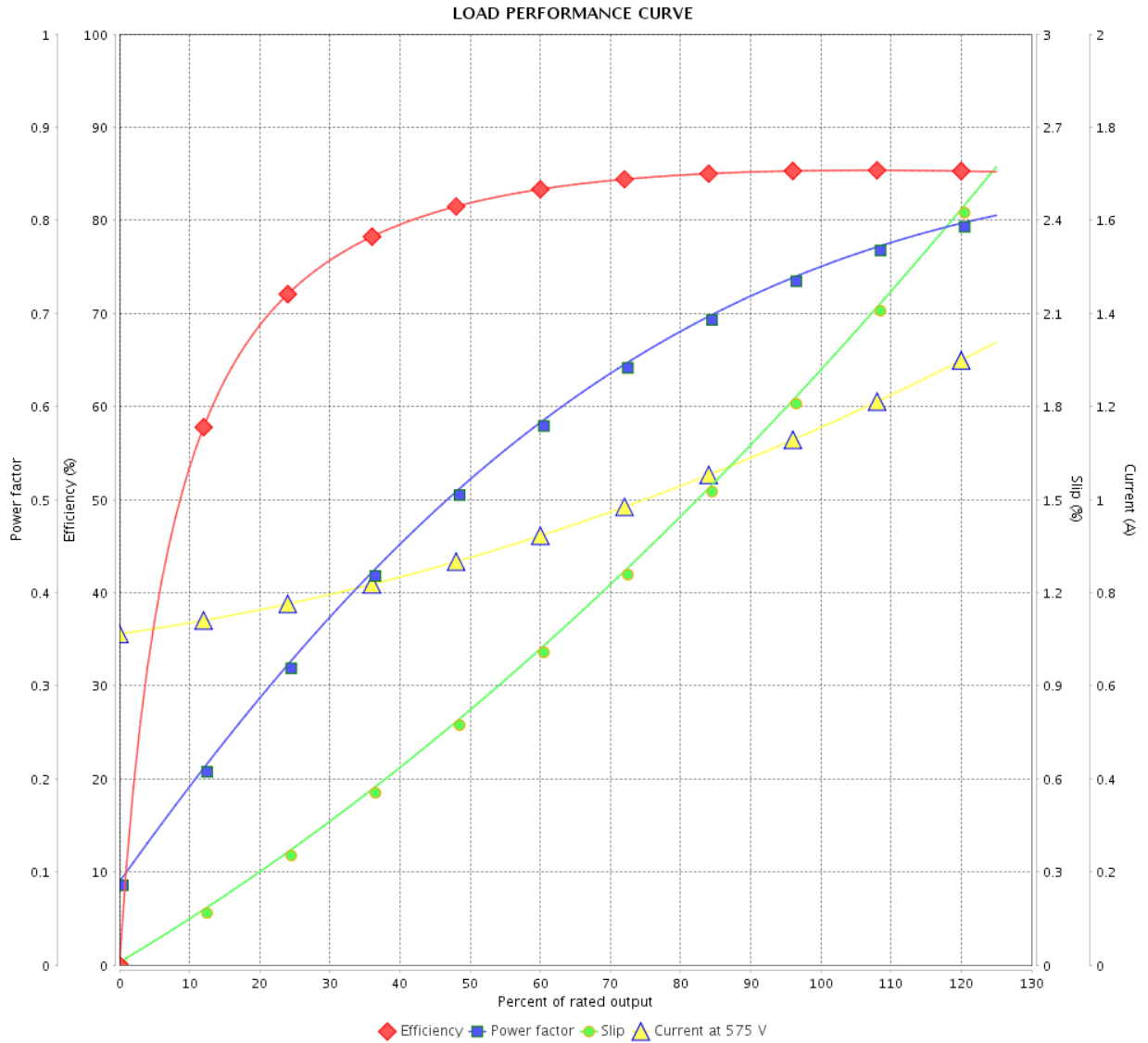
Product line : Premium Efficiency Three-Phase

Product code :

14797809

Catalog # :

00118ET3H56-S



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 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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Date				

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

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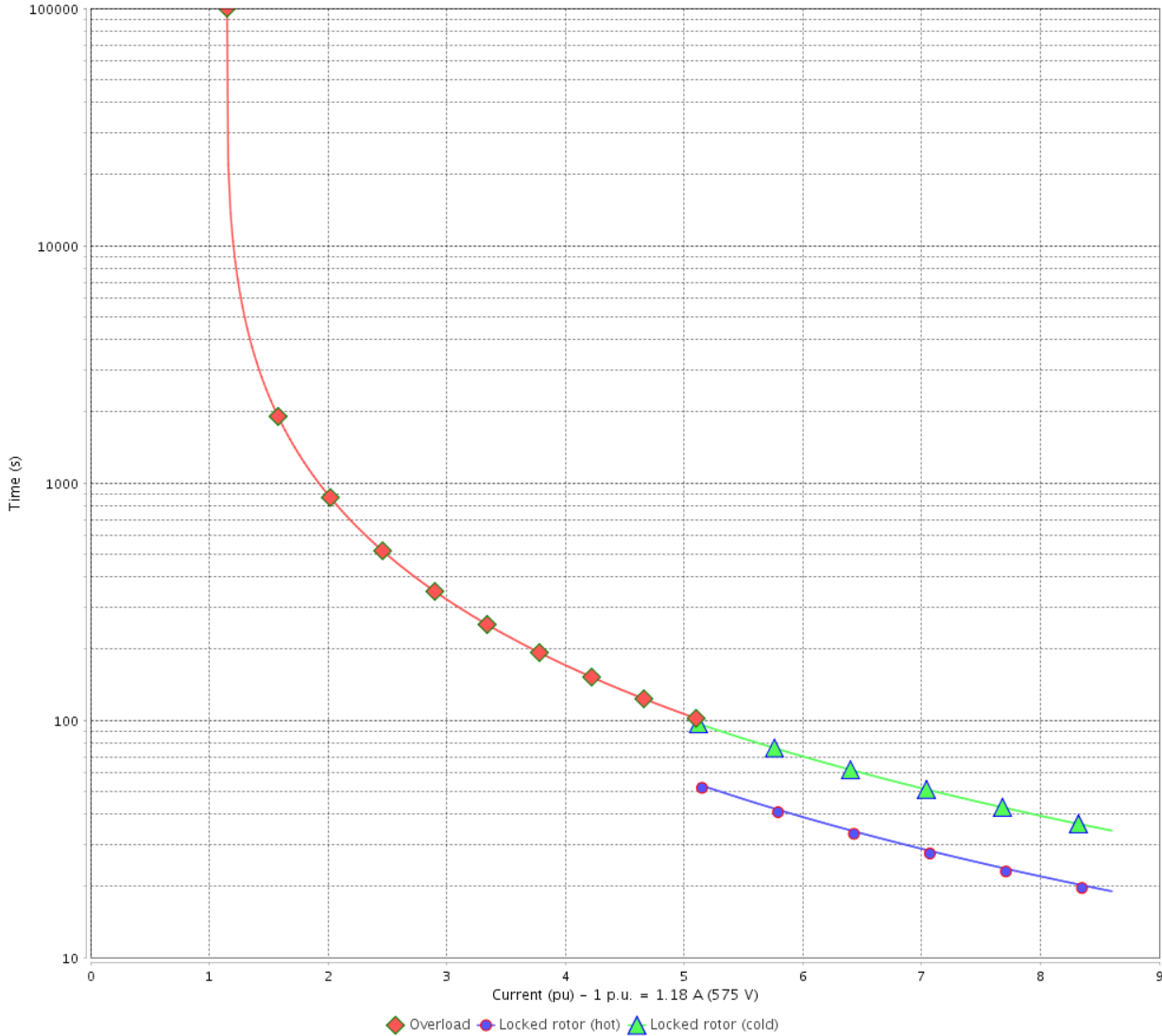
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00118ET3H56-S

THERMAL LIMIT CURVE



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 Temperature rise : 80 K
 Design : B

Heating constant

Cooling constant

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

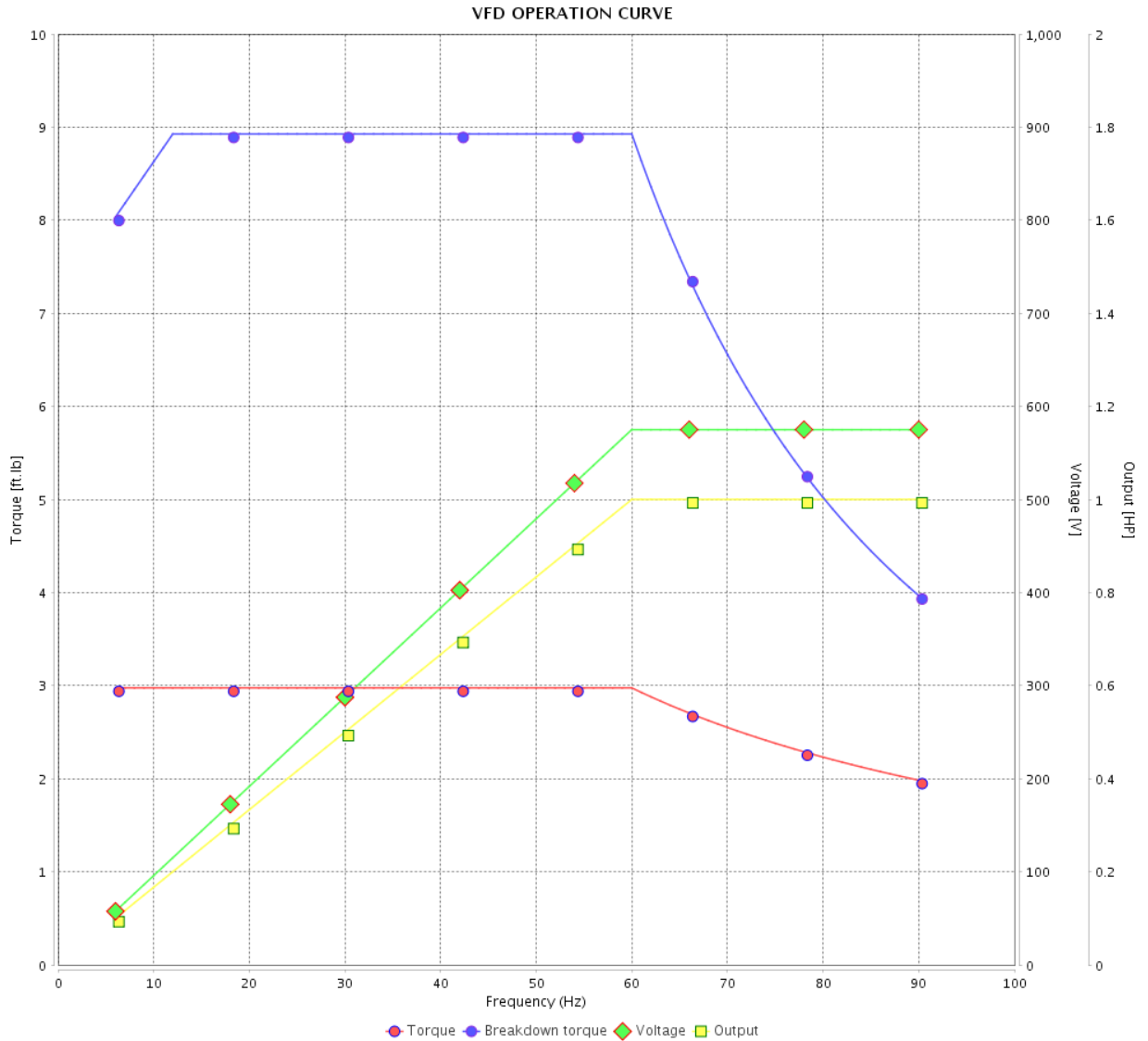
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

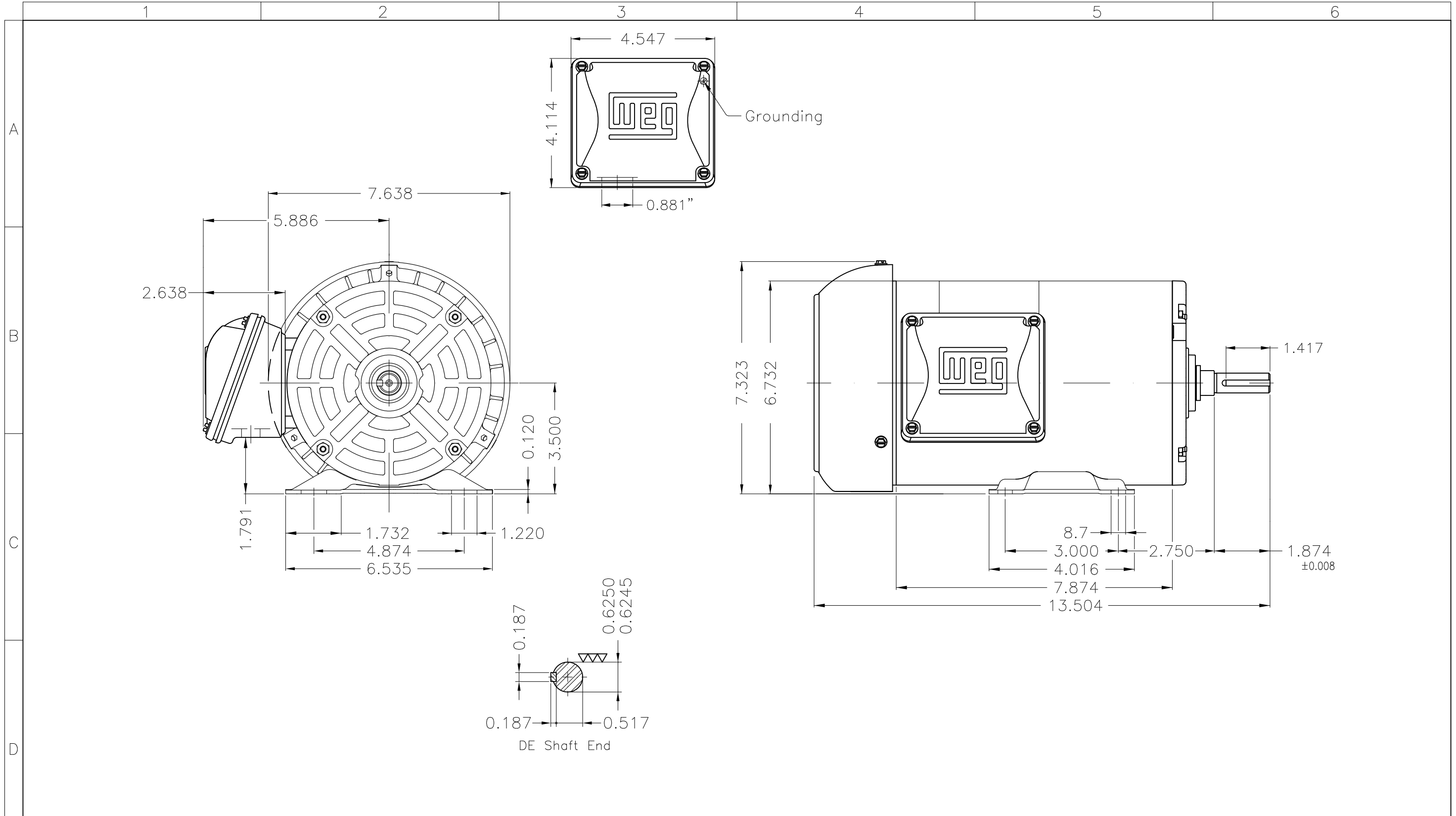
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Performed by			Page 5 / 5	Revision
Checked by				
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Dimensions in inches

Fan cover - steel plate											
Without coating											
Mounting F-1/B3R(D)											
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF.						PREVIEW WDD			
CHECKED		FRAME 56 IP55 TEFC									
RELEASED											
REL DT.		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1					

1 HP 04 Poles 60 Hz

A



NEMA
Premium



MADE IN MEXICO

MAT: 14797809 CC029A

W01.TE0IC0X0X

MODEL 00118ET3H56-S

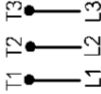
06JAN2022 B/N:

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 1.0
FR 56		KW 0.75
DUTY CONT.		V 575
ALT 1000 m.a.s.l.		A 1.18
INS CL F AT 80K	IP55	SFA 1.36
AMB 40°C	DES B	SF 1.15
ENCL TEFC	CODE M	PF 0.75
		RPM 1765
		NEMA
		NOM. EFF 85.5%

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.

