

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase			
Product code :	14831276			
Catalog # :	00118ET3H143TC-S			
Frame : 143/5TC 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 : 38.9 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	: 58 lb			
Max. compression	: 97 lb			
Bearing type	: <u>Drive end</u> 6205 ZZ <u>Non drive end</u> 6203 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.				
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Performed by				
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



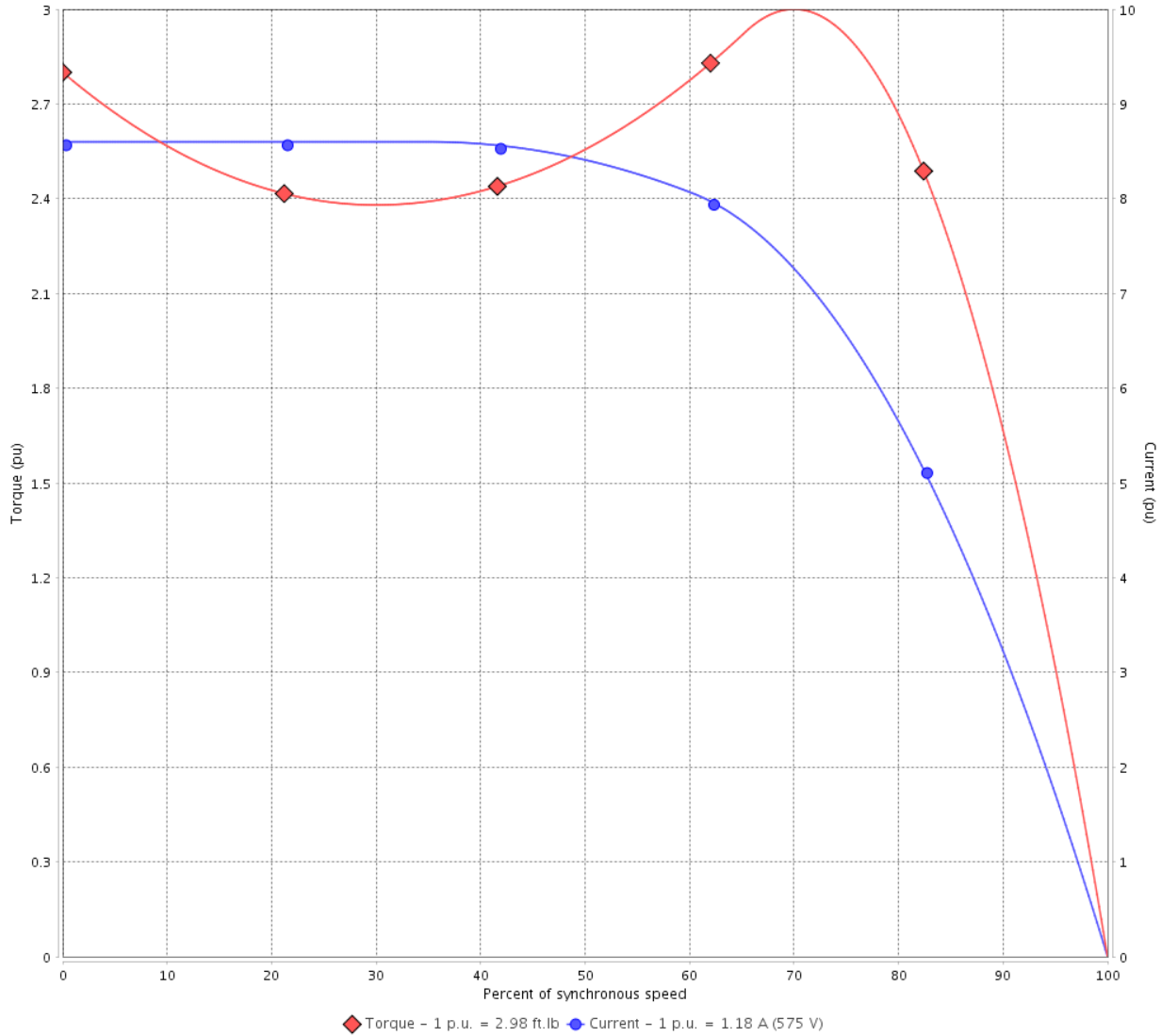
Customer :

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Catalog # : 00118ET3H143TC-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)

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LOAD PERFORMANCE CURVE

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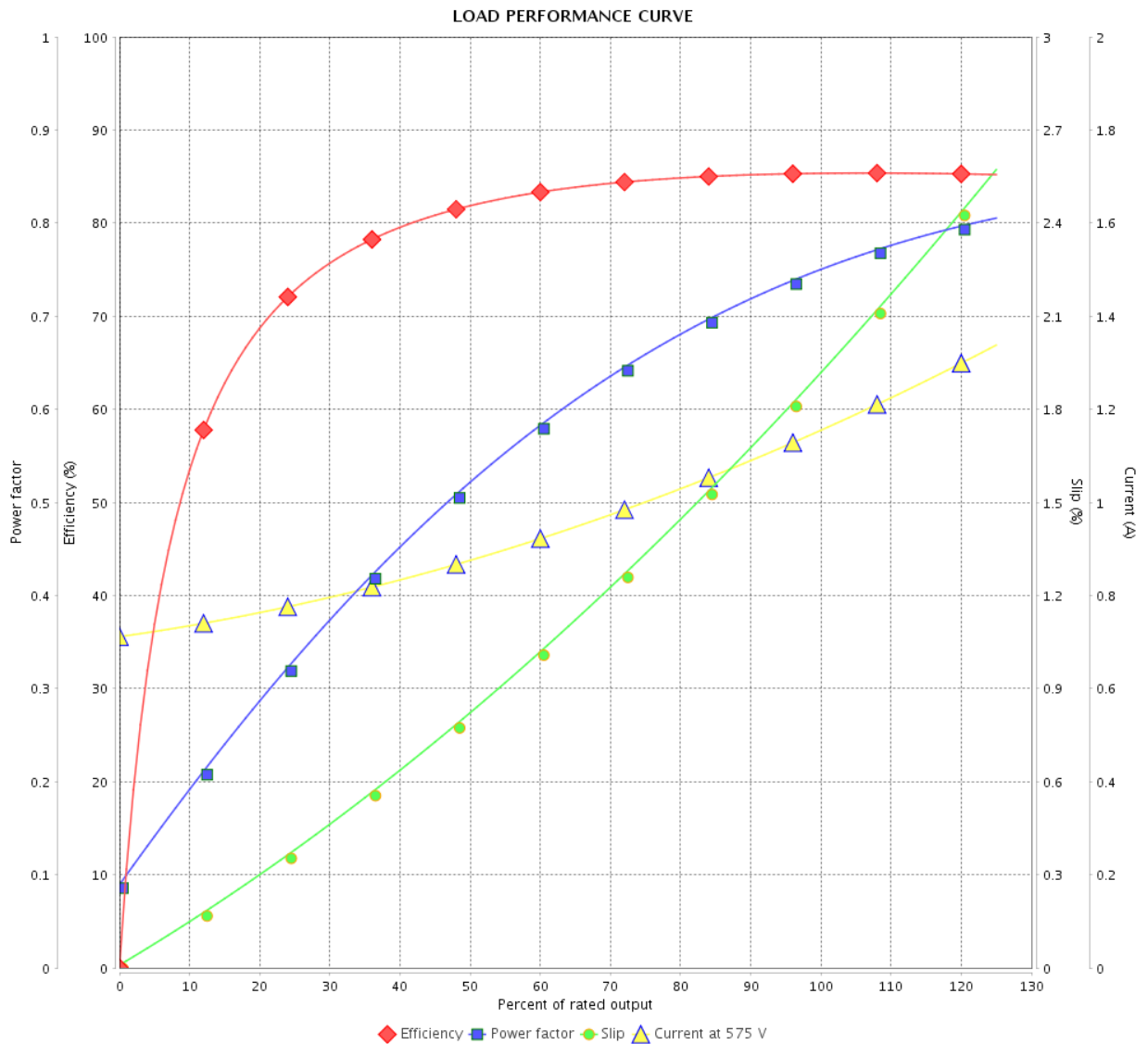


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 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

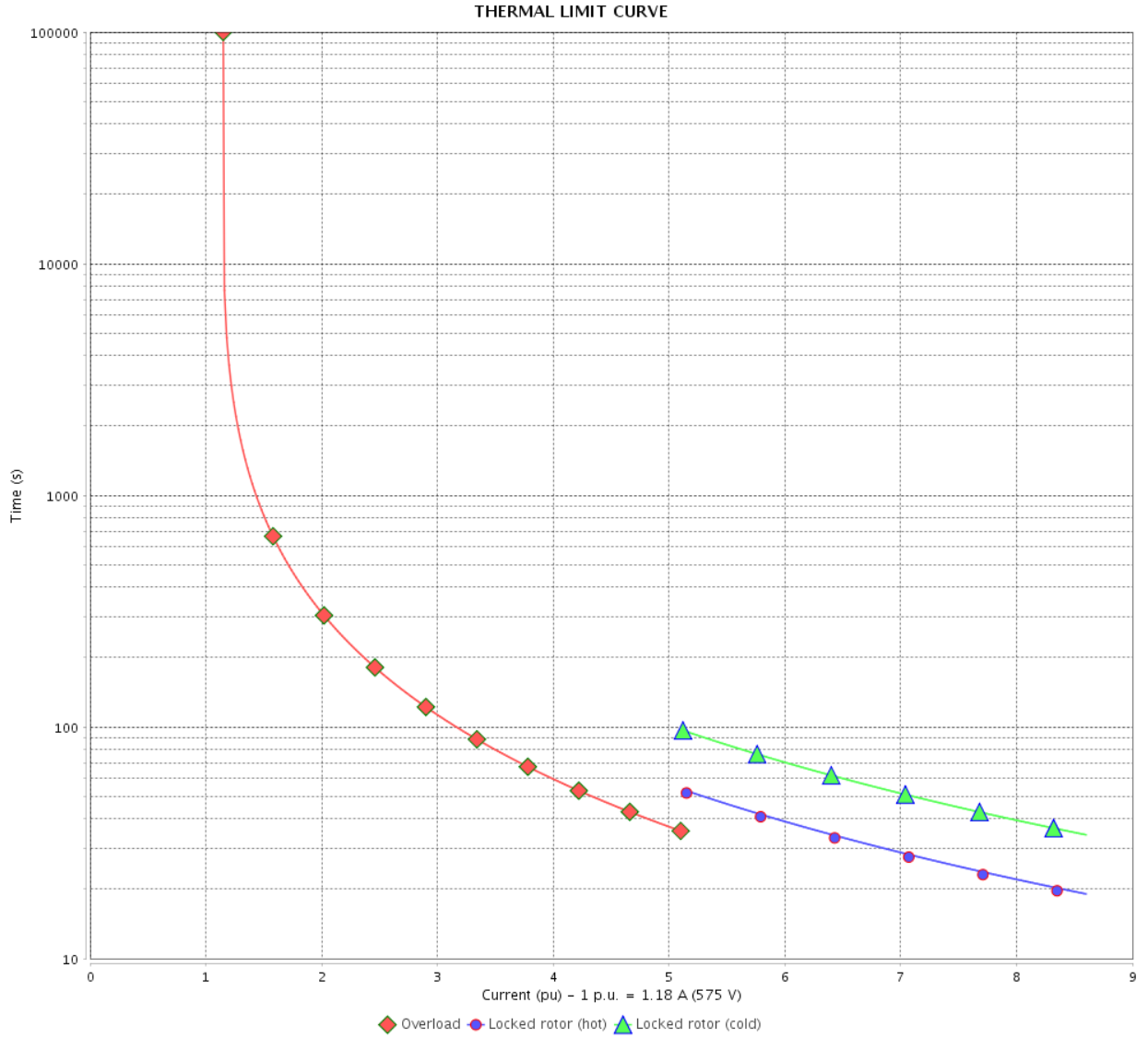
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



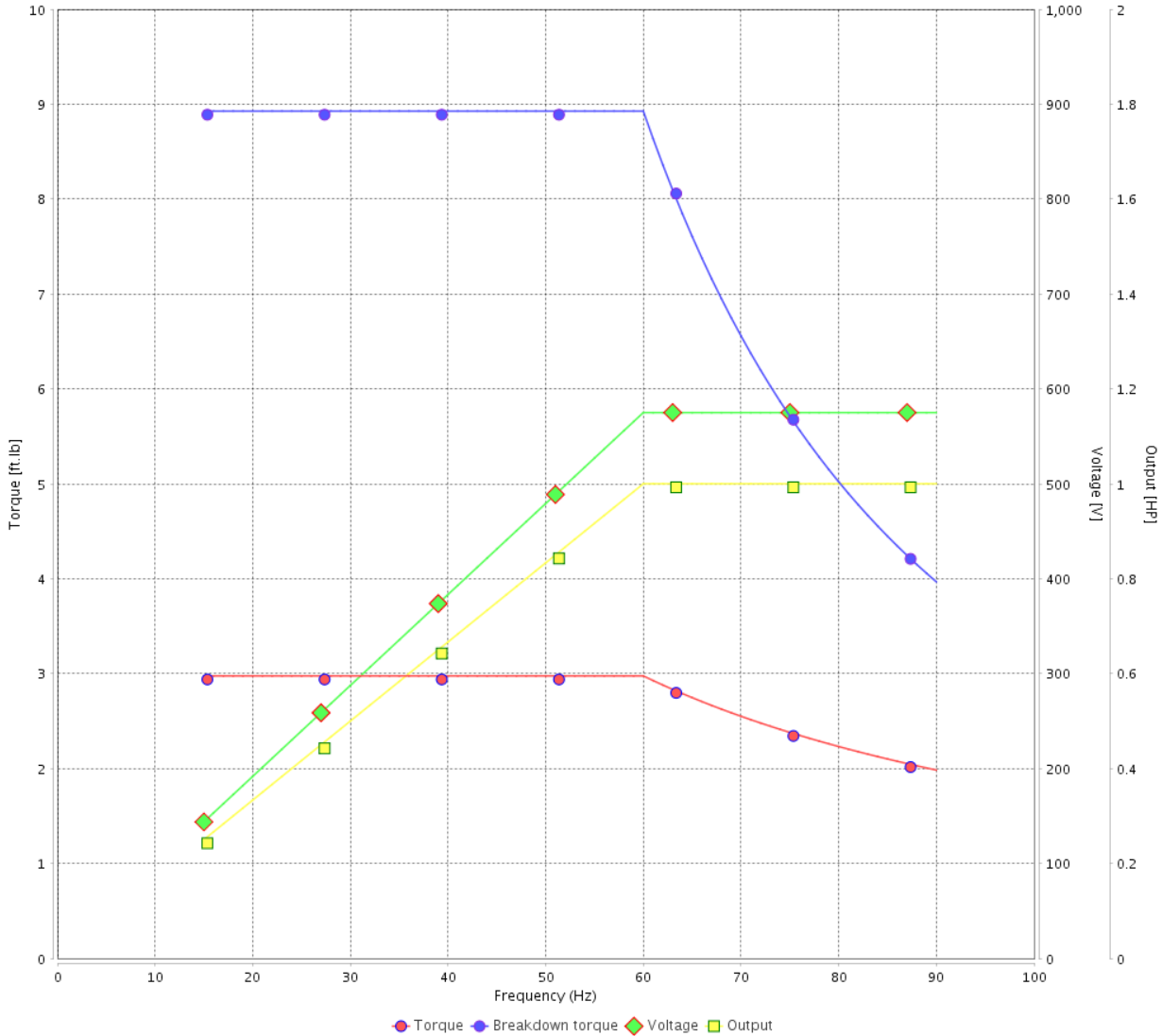
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VFD OPERATION CURVE

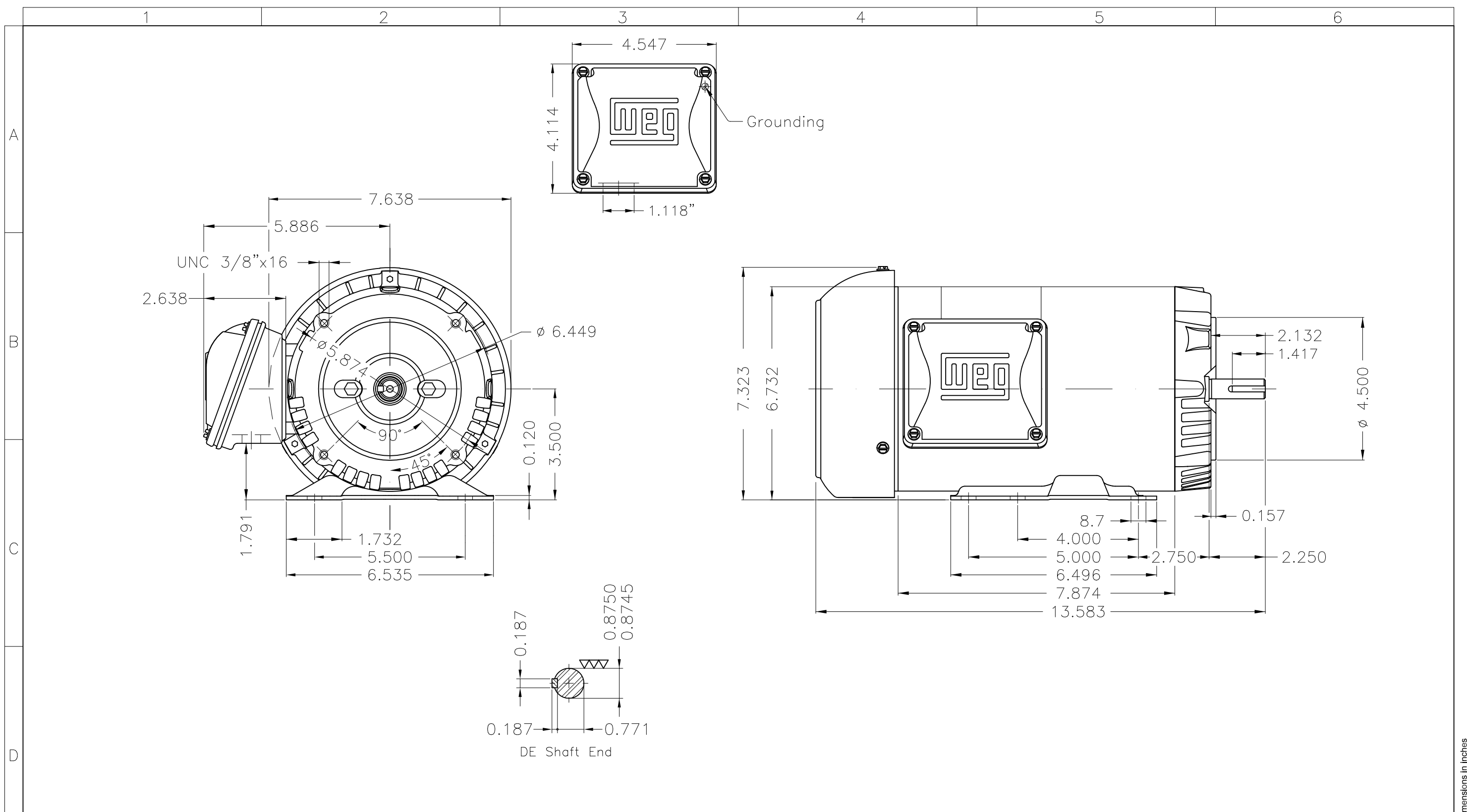


Performance : 575 V 60 Hz 4P

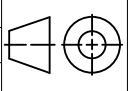
Rated current : 1.18 A
 LRC : 8.6
 Rated torque : 2.98 ft.lb
 Locked rotor torque : 280 %
 Breakdown torque : 300 %
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.1232 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
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Fan cover - steel plate
 Color Munsell N 1 matte black
 Painting plan 207N
 Mounting F-1/B34R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	 THREE PH. MOTOR ROLLED STEEL PREM. EFF. FRAME 143/5TC IP55 TEFC					
CHECKED							
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET		1 / 1	

PREVIEW
 WDD



1 HP 04 Poles 60 Hz

Dimensions in inches XME A3



NEMA
Premium



MADE IN MEXICO

MAT: 14831276 CC029A

W01.TE0IC0X0N

MODEL 00118ET3H143TC-S



23FEB2022 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 143/5TC		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, 4:1 CT

DE 6205-ZZ ODE 6203-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.

