

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase			
Product code :	14480918			
Catalog # :	00136ET3H143T-S			
Frame : 143/5T Output : 1 HP (0.75 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 575 V Rated current : 1.15 A L. R. Amperes : 8.99 A LRC : 7.8x(Code K) No load current : 0.560 A Rated speed : 3510 rpm Slip : 2.50 % Rated torque : 1.50 ft.lb Locked rotor torque : 200 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.0643 sq.ft.lb Design : B	Locked rotor time : 39s (cold) 22s (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 : 68.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 26.2 lb			
Output	25% 50% 75% 100%			
Efficiency (%)	70.4 72.0 77.0 78.5			
Power Factor	0.40 0.65 0.76 0.83			
Foundation loads				
Max. traction	: 26 lb			
Max. compression	: 52 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.				
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	14/04/2022		1 / 6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

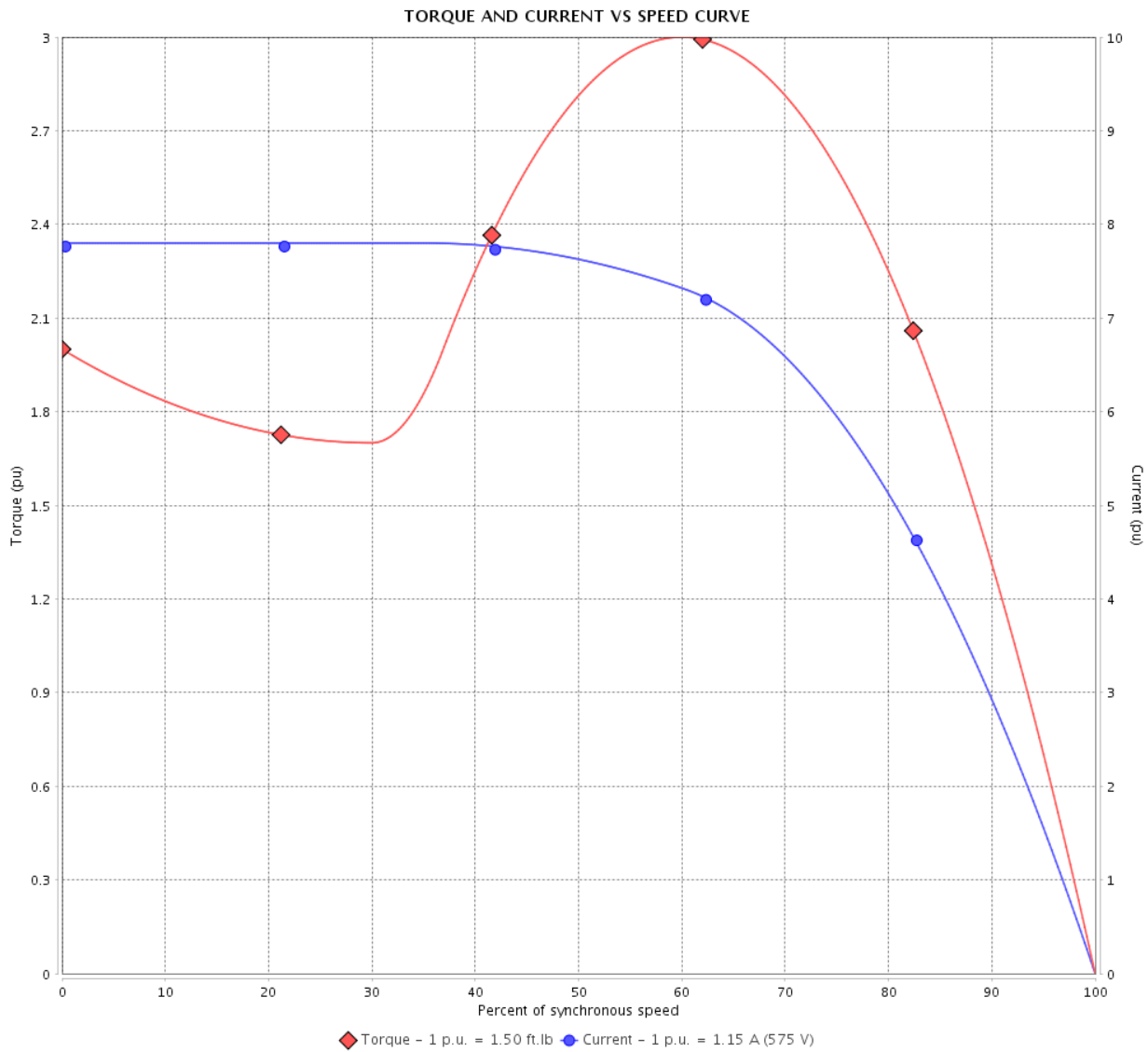


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14480918

Catalog # : 00136ET3H143T-S



Performance : 575 V 60 Hz 2P

Rated current	: 1.15 A	Moment of inertia (J)	: 0.0643 sq.ft.lb
LRC	: 7.8	Duty cycle	: Cont.(S1)
Rated torque	: 1.50 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: B

Locked rotor time : 39s (cold) 22s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 6	Revision
Checked by				
Date	14/04/2022			

LOAD PERFORMANCE CURVE

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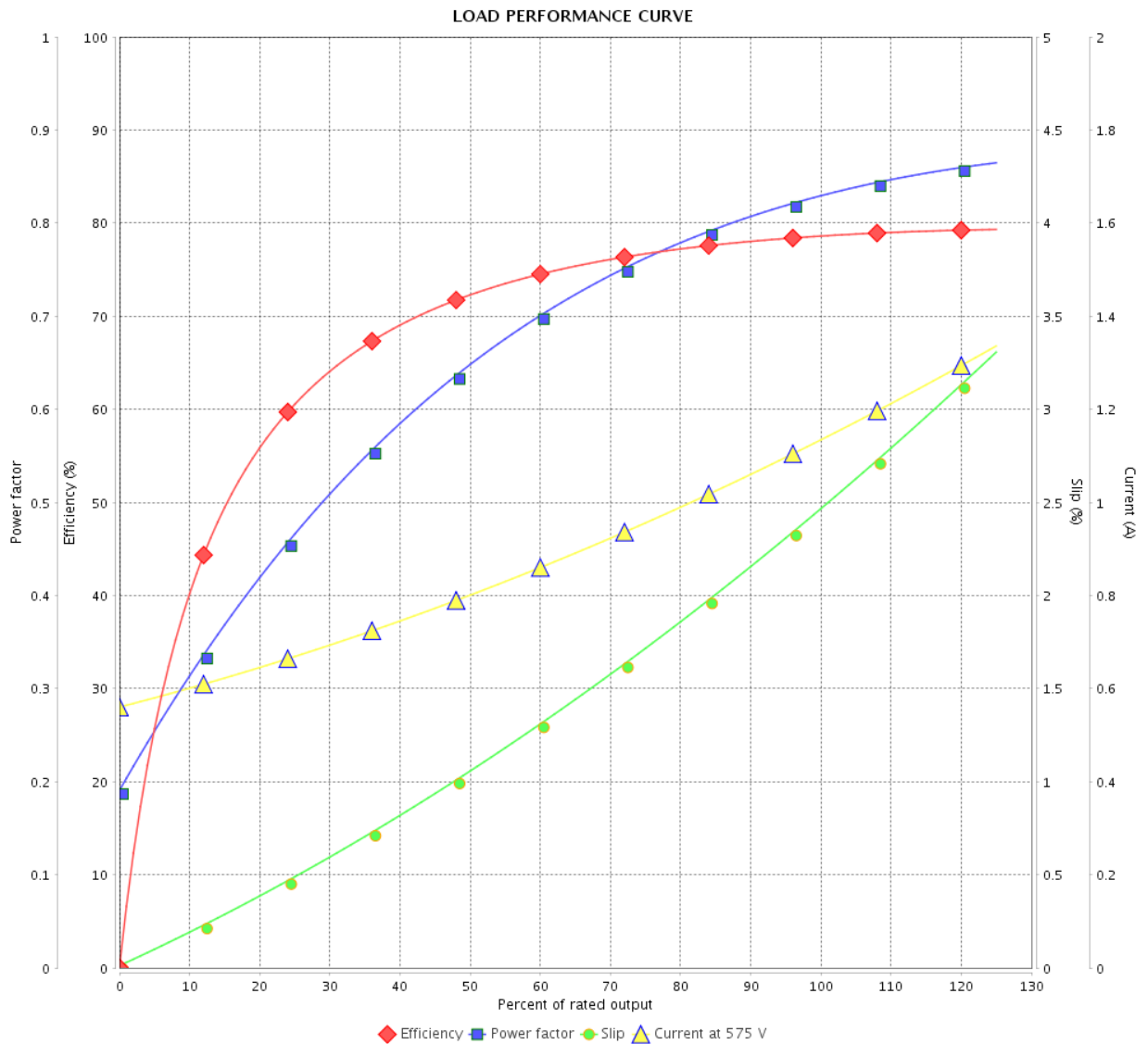


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Performance : 575 V 60 Hz 2P

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 Breakdown torque : 300 %
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 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by			3 / 6	
Date	14/04/2022			

THERMAL LIMIT CURVE

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Heating constant

Cooling constant

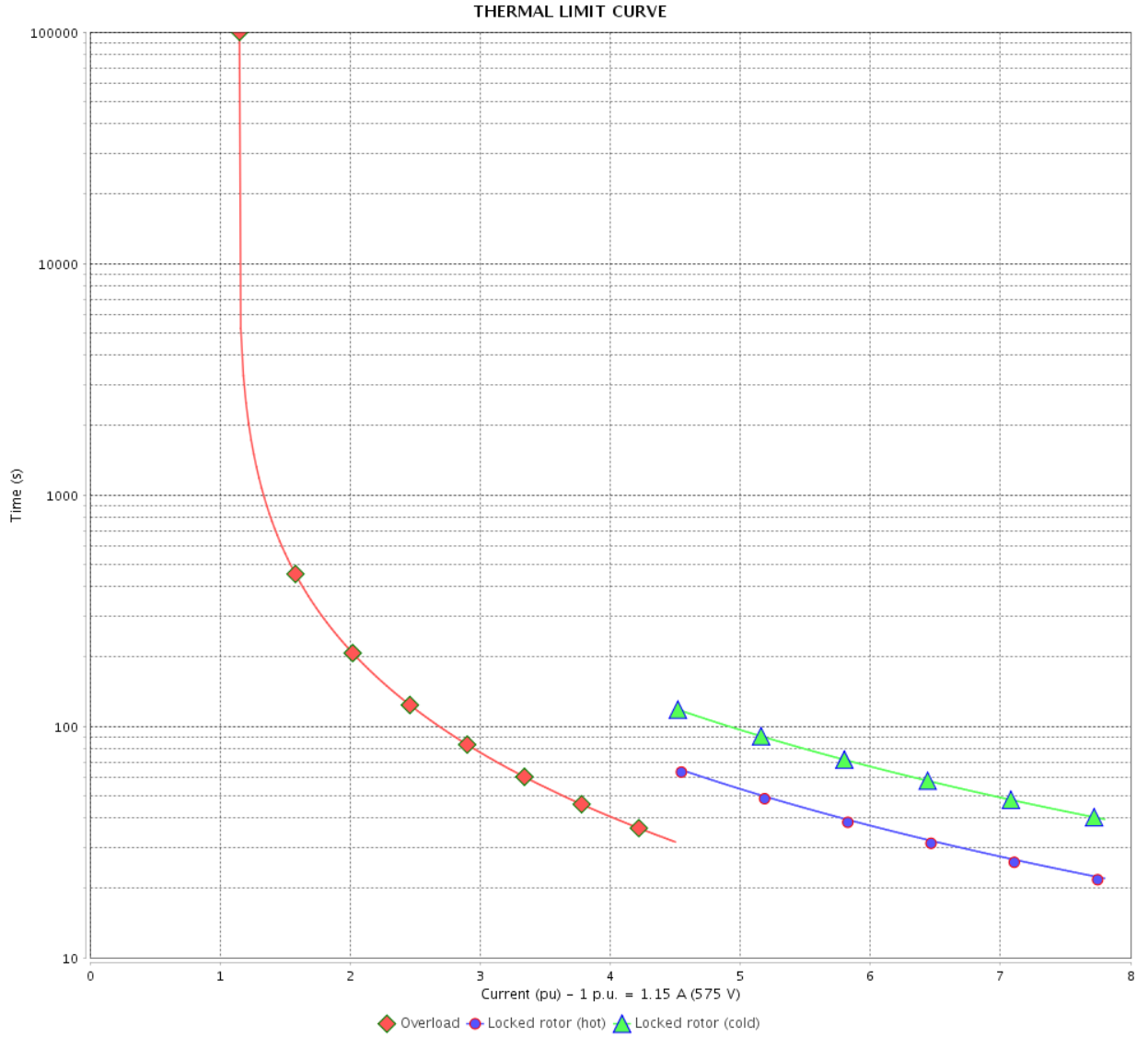
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	14/04/2022		4 / 6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 5 / 6		Revision
Checked by				
Date				

VFD OPERATION CURVE

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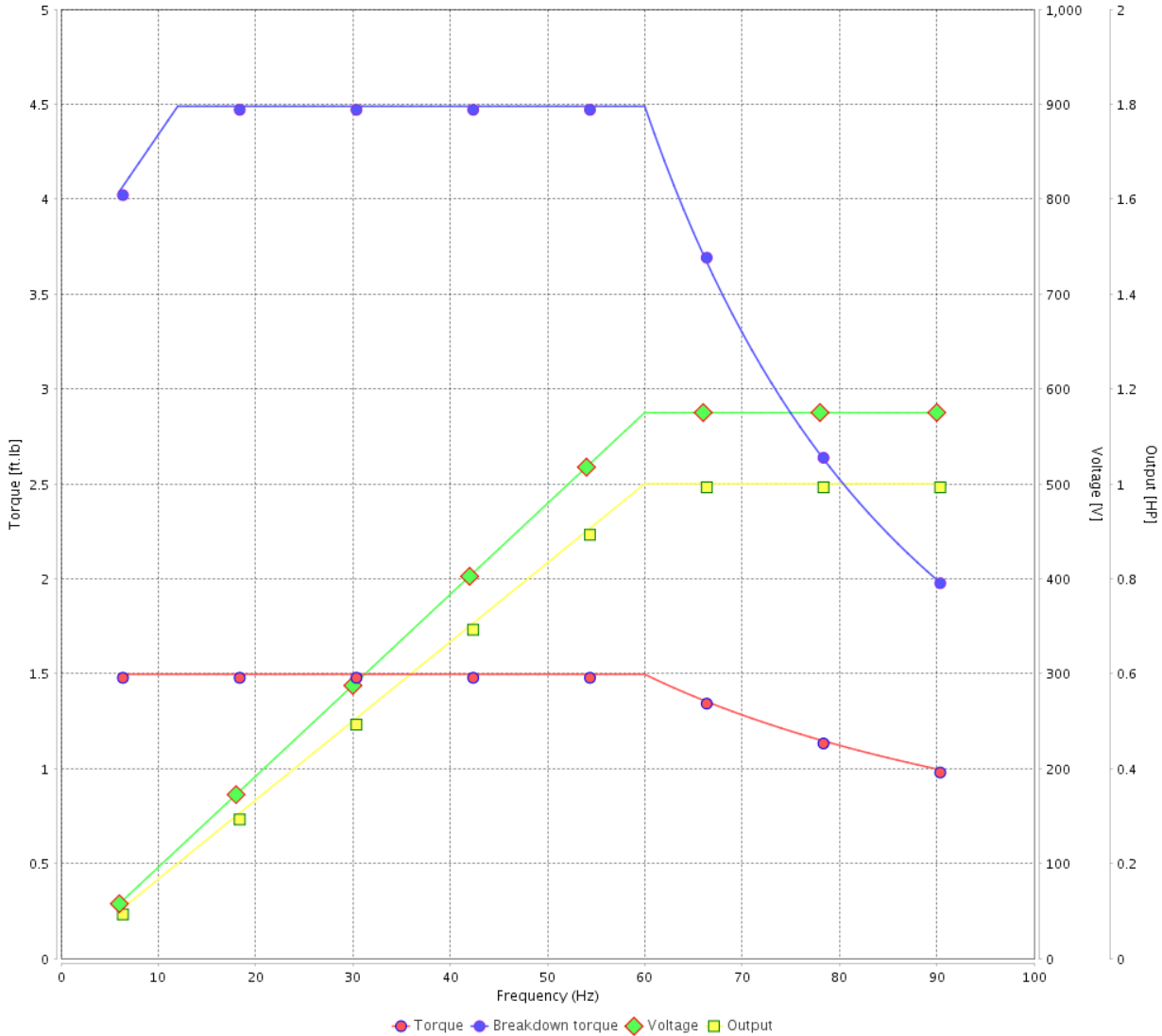
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VFD OPERATION CURVE

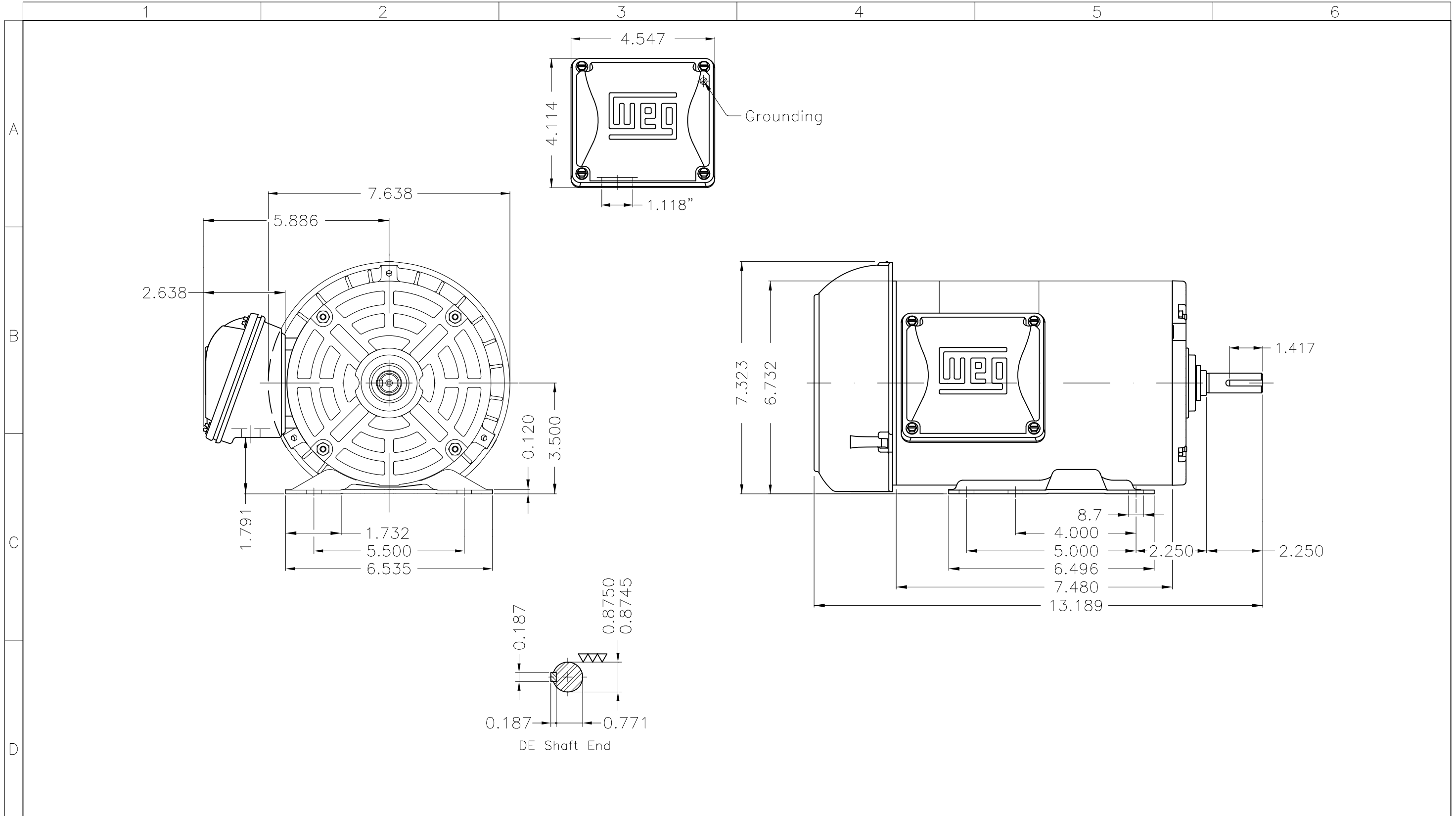


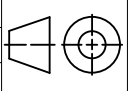

Performance : 575 V 60 Hz 2P

Rated current : 1.15 A
 LRC : 7.8
 Rated torque : 1.50 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 300 %
 Rated speed : 3510 rpm

Moment of inertia (J) : 0.0643 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
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Performed by			Page 6 / 6	Revision
Checked by				
Date	14/04/2022			



Color Munsell N 1 matte black						
Painting plan 207N						
Mounting F-1/B3R(D)						
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF. FRAME 143/5T IP55 TEFC		PREVIEW	WDD	
CHECKED						
RELEASED						
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1	

1 HP 02 Poles 60 Hz