

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase			
Product code :	12799396			
Catalog # :	00712OT3H254T-SG			
Frame : 254/6T Output : 7.5 HP (5.5 kW) Poles : 6 Frequency : 60 Hz Rated voltage : 575 V Rated current : 8.16 A L. R. Amperes : 41.6 A LRC : 5.1x(Code F) No load current : 4.29 A Rated speed : 1175 rpm Slip : 2.08 % Rated torque : 33.5 ft.lb Locked rotor torque : 200 % Breakdown torque : 229 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 2.00 sq.ft.lb Design : B	Locked rotor time : 66s (cold) 37s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Cooling method : IC01 - ODP Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 59.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 187 lb			
Output	25% 50% 75% 100%			
Efficiency (%)	88.2 88.5 90.2 90.2			
Power Factor	0.33 0.56 0.68 0.75			
Foundation loads				
Max. traction	: 276 lb			
Max. compression	: 463 lb			
Bearing type	: <u>Drive end</u> 6309 Z C3 <u>Non drive end</u> 6208 Z C3			
Sealing	: Without Bearing Seal Without Bearing Seal			
Lubrication interval	: 20000 h 20000 h			
Lubricant amount	: 13 g 8 g			
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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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



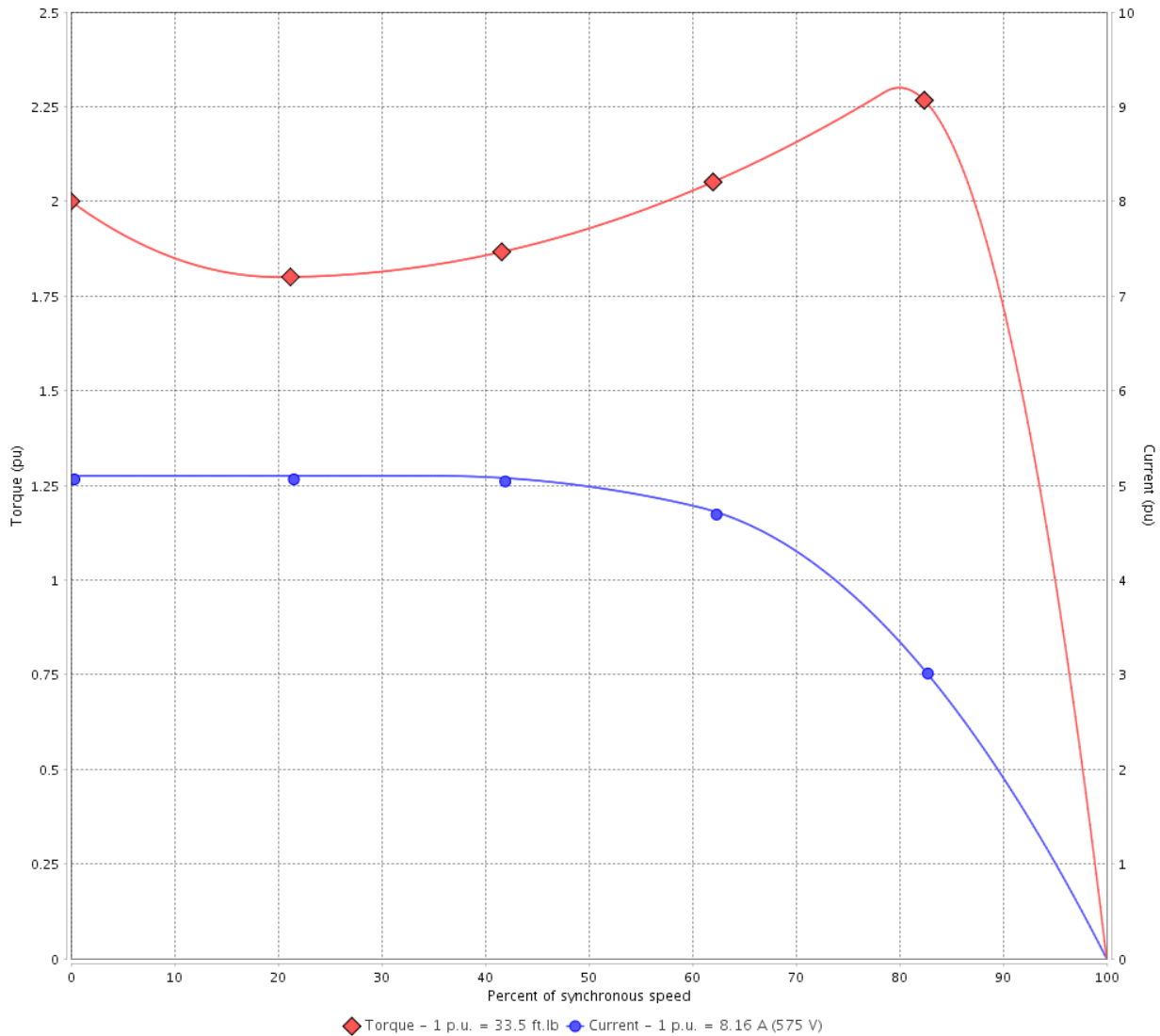
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12799396

Catalog # : 007120T3H254T-SG

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 6P

Rated current	: 8.16 A	Moment of inertia (J)	: 2.00 sq.ft.lb
LRC	: 5.1	Duty cycle	: Cont.(S1)
Rated torque	: 33.5 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 1175 rpm	Design	: B

Locked rotor time : 66s (cold) 37s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

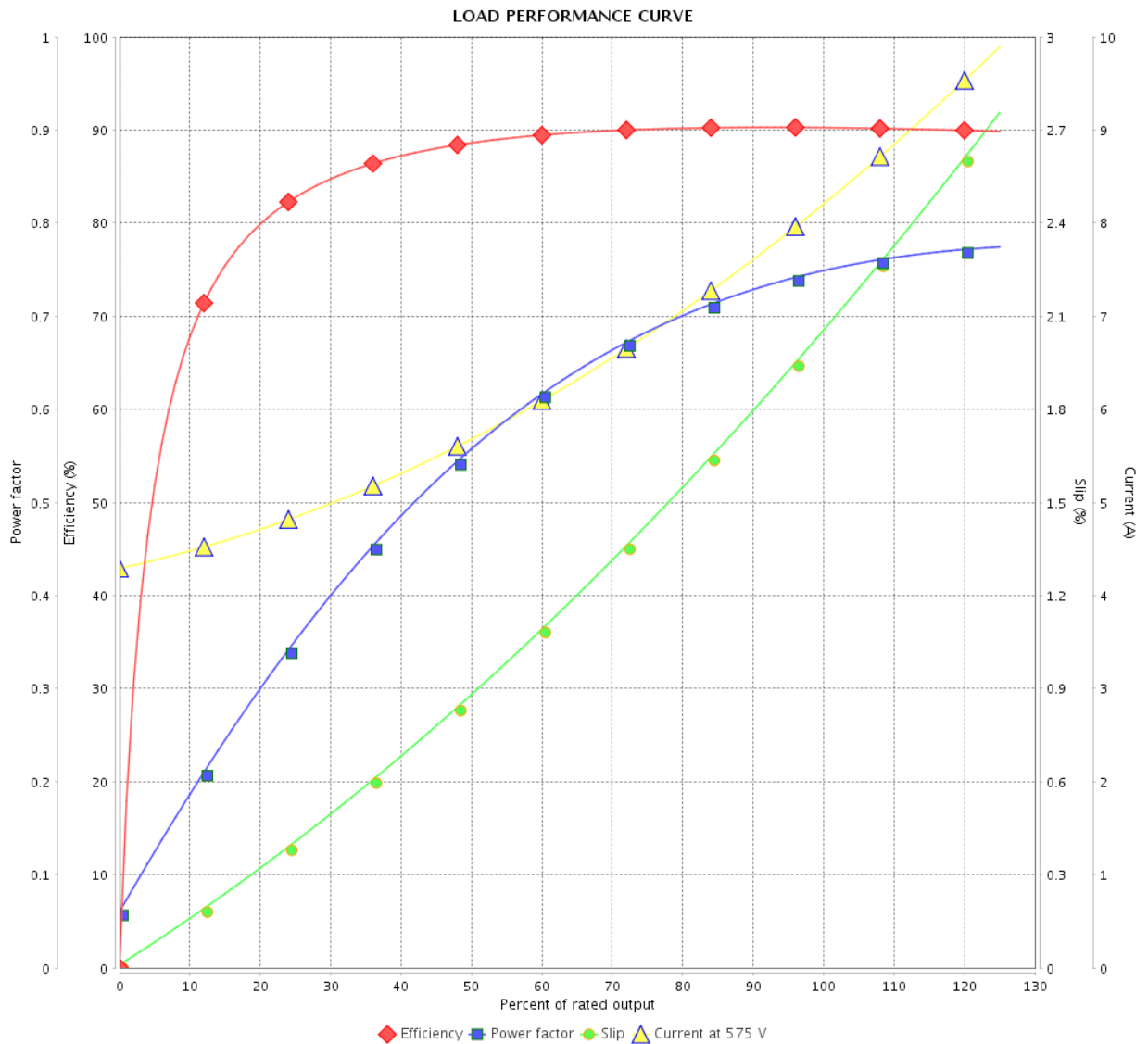


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12799396

Catalog # : 007120T3H254T-SG



Performance : 575 V 60 Hz 6P

Rated current : 8.16 A
 LRC : 5.1
 Rated torque : 33.5 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 1175 rpm

Moment of inertia (J) : 2.00 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 12799396
Catalog # : 00712OT3H254T-SG

Performance : 575 V 60 Hz 6P

Rated current	: 8.16 A	Moment of inertia (J)	: 2.00 sq.ft.lb
LRC	: 5.1	Duty cycle	: Cont.(S1)
Rated torque	: 33.5 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 1175 rpm	Design	: B

Heating constant

Cooling constant

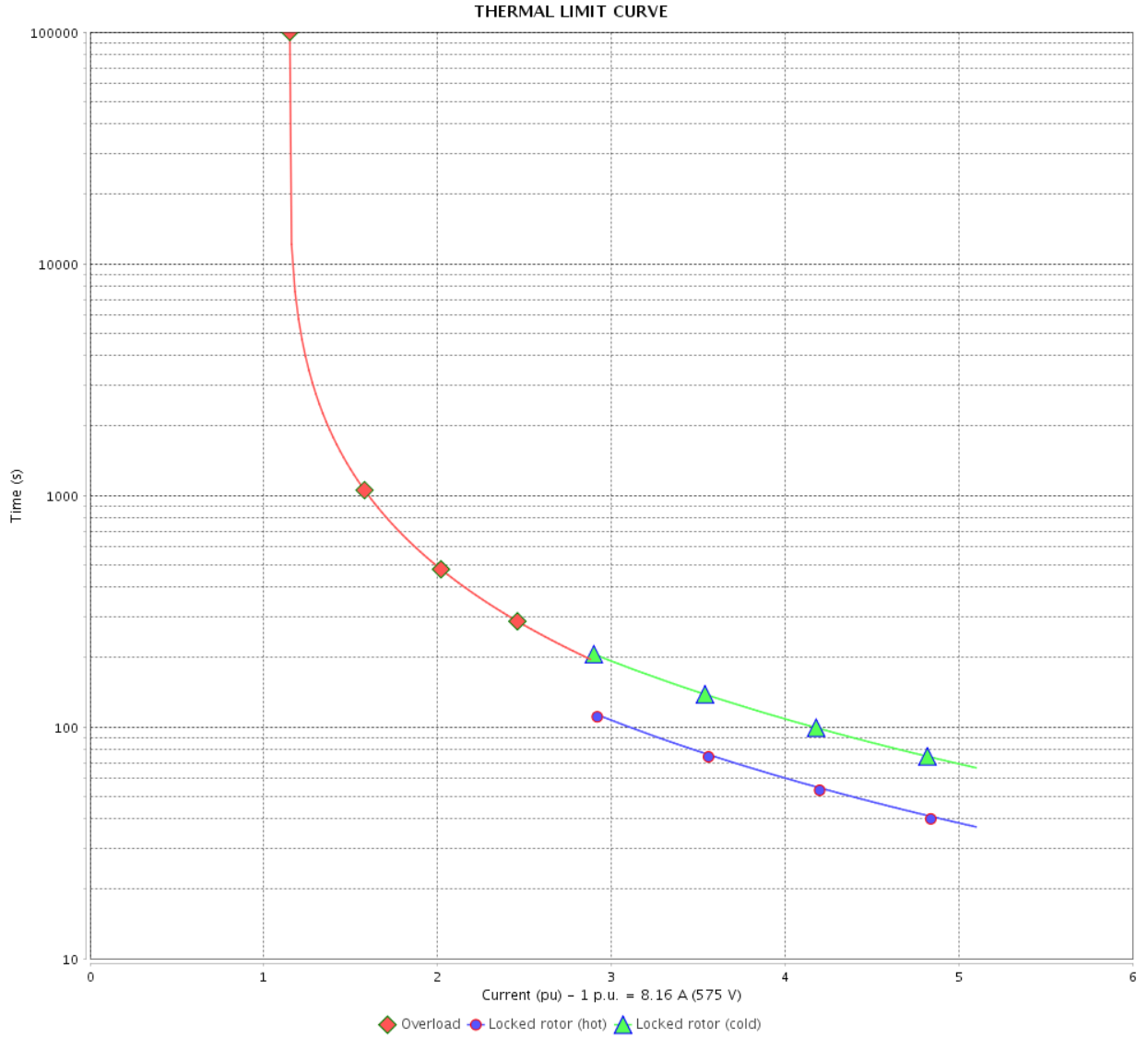
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Checked by				
Date				
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



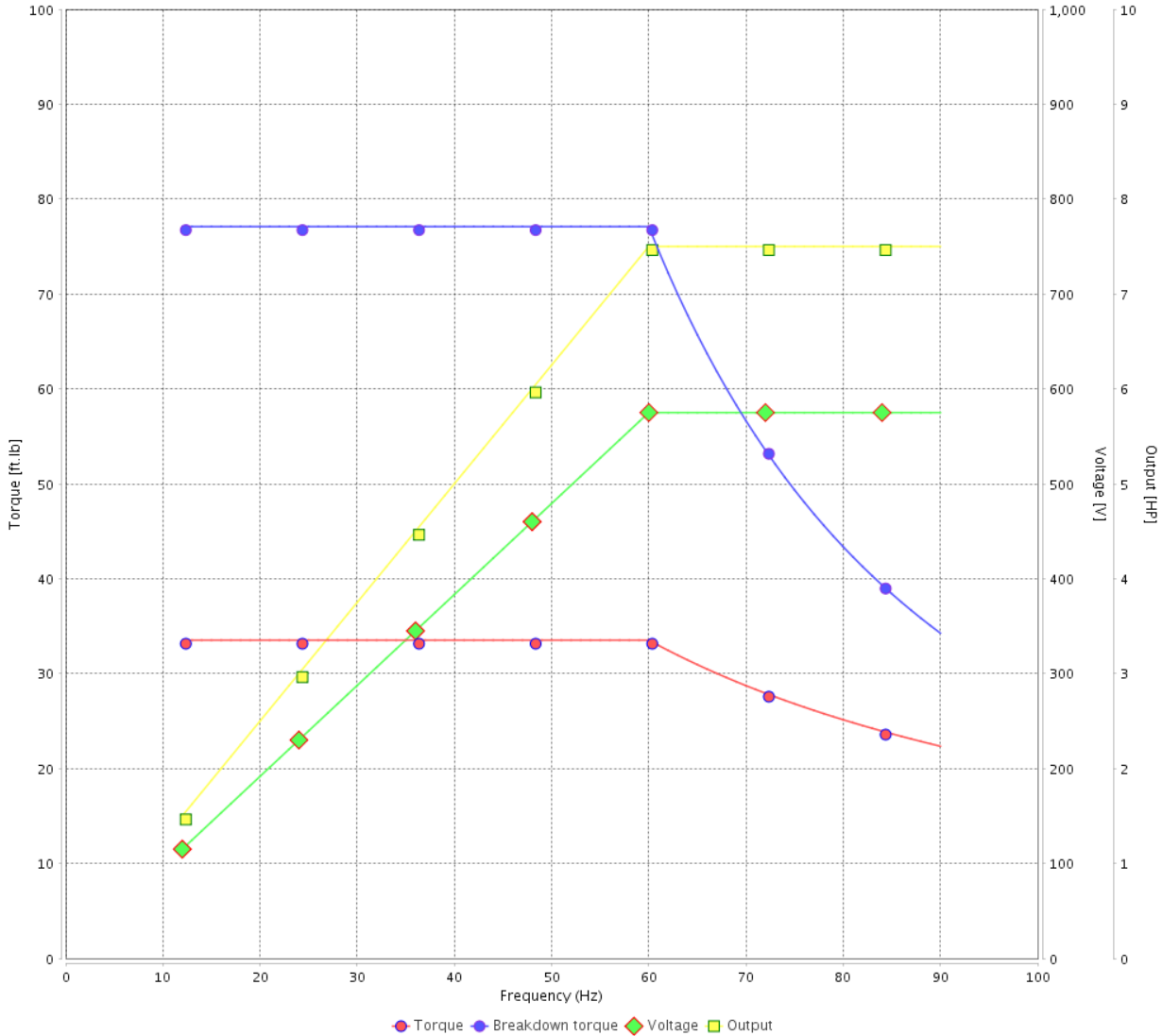
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12799396

Catalog # : 007120T3H254T-SG

VFD OPERATION CURVE



Performance : 575 V 60 Hz 6P

Rated current : 8.16 A
 LRC : 5.1
 Rated torque : 33.5 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 1175 rpm

Moment of inertia (J) : 2.00 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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Date	13/04/2022			

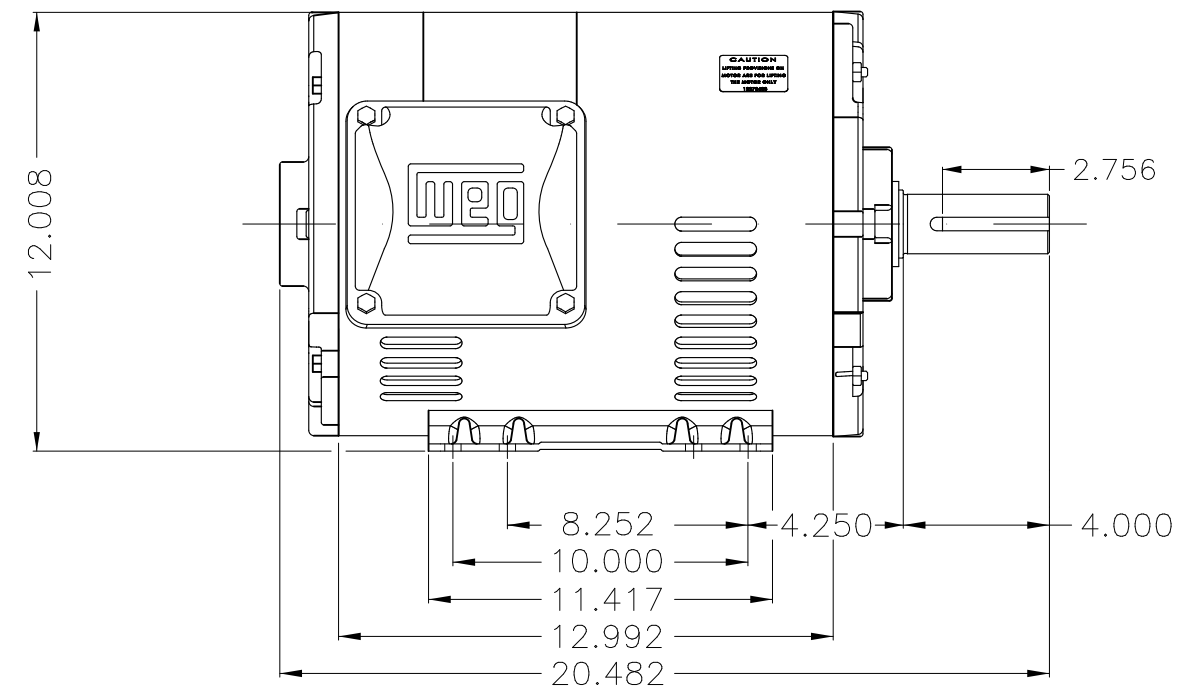
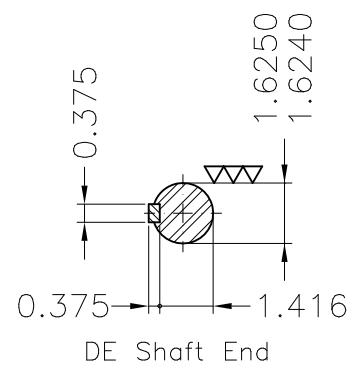
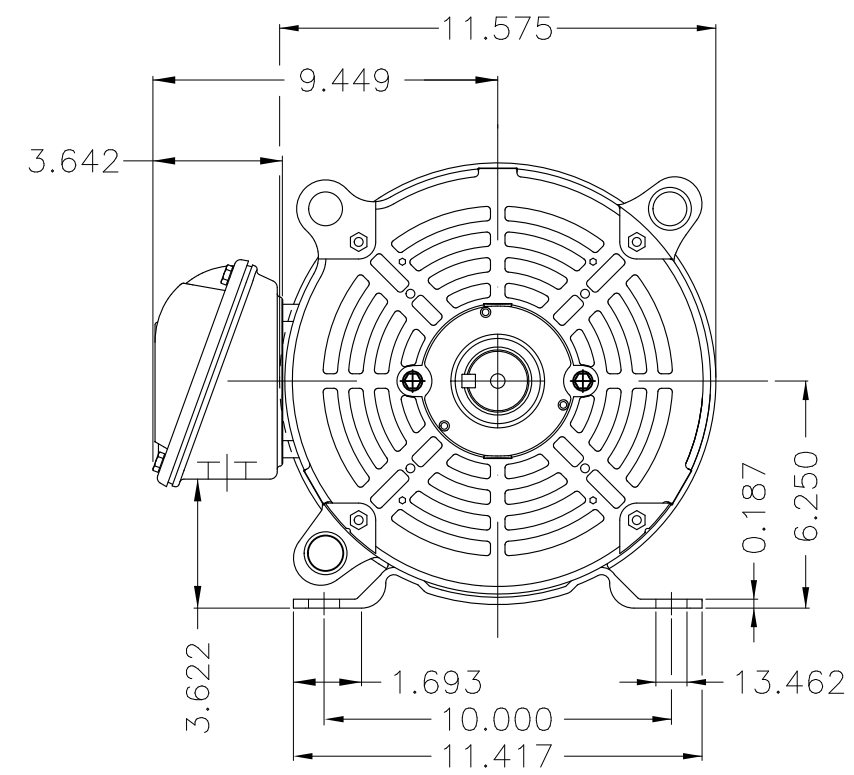
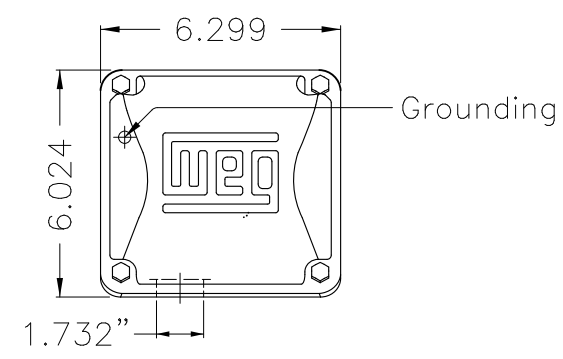
A

B

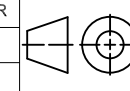
C

D

E



- Bearing cap
- Internal AEGIS ground ring on the DE
- 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	PIRWUSER	 THREE PH. MOTOR ROLLED STEEL PREM. EFF. FRAME 254/6T IP21 ODP					
CHECKED							
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET		1 / 1	

7.5 HP 06 Poles 60 Hz

A

PREVIEW
WDD

