

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase			
Product code :	12674790			
Catalog # :	00118OT3P143T-S			
Frame : 143/5T Output : 1 HP (0.75 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 200 V Rated current : 3.47 A L. R. Amperes : 27.8 A LRC : 8.0x(Code L) No load current : 2.20 A Rated speed : 1760 rpm Slip : 2.22 % Rated torque : 2.98 ft.lb Locked rotor torque : 290 % Breakdown torque : 360 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1101 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. Cooling method : IC01 - ODP Mounting : F-1 Rotation <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 52.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 34.6 lb			
Output	25%    50%    75%    100%			
Efficiency (%)	79.9    81.5    84.0    85.5			
Power Factor	0.29    0.51    0.65    0.73			
Foundation loads				
Max. traction	: 76 lb			
Max. compression	: 111 lb			
Bearing type	: <u>Drive end</u> 6205 ZZ <u>Non drive end</u> 6203 ZZ			
Sealing	: Without Bearing Seal      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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# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage



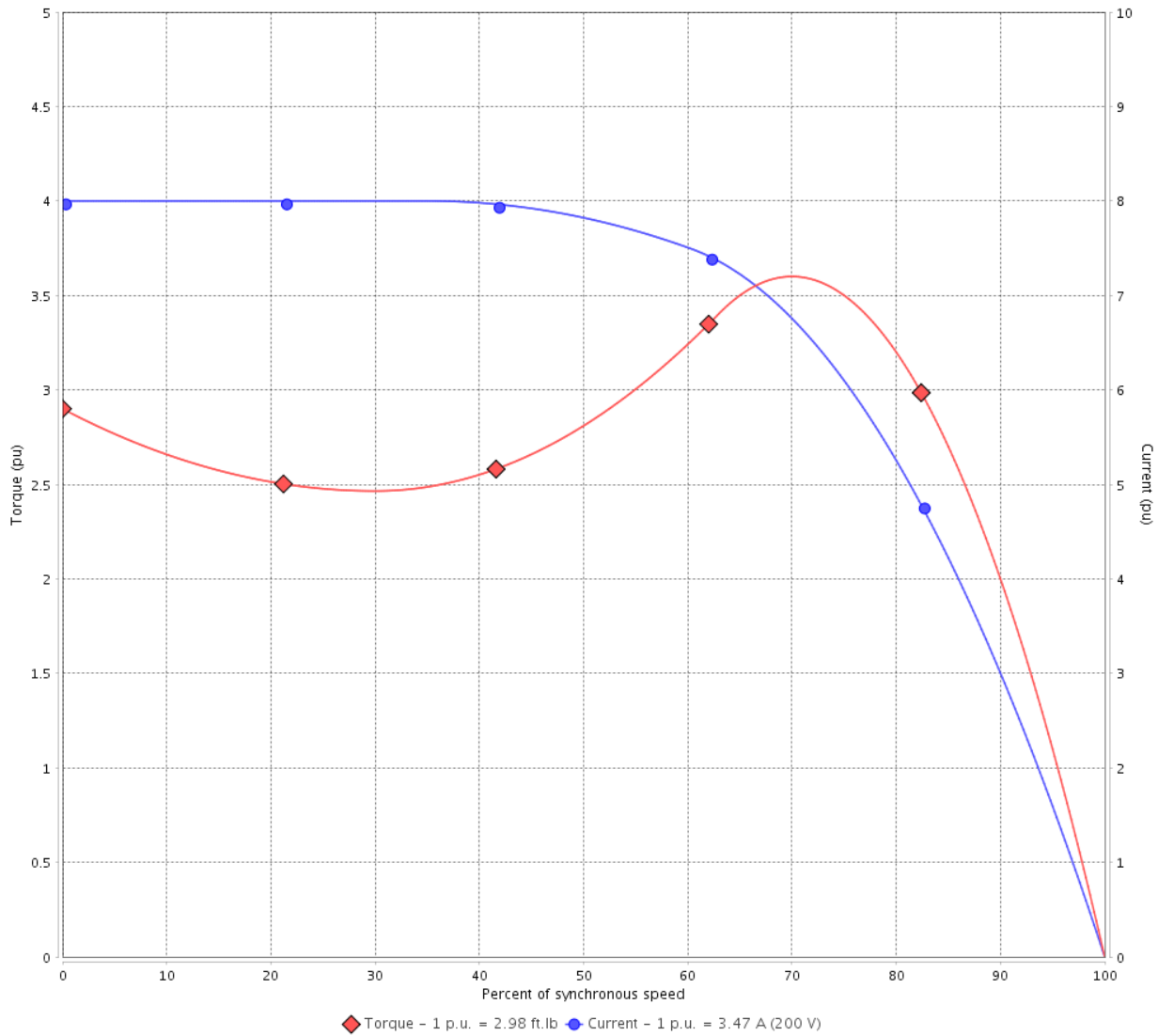
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12674790

Catalog # : 001180T3P143T-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 200 V 60 Hz 4P

Rated current	: 3.47 A	Moment of inertia (J)	: 0.1101 sq.ft.lb
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 2.98 ft.lb	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.15
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm	Design	: B

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

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

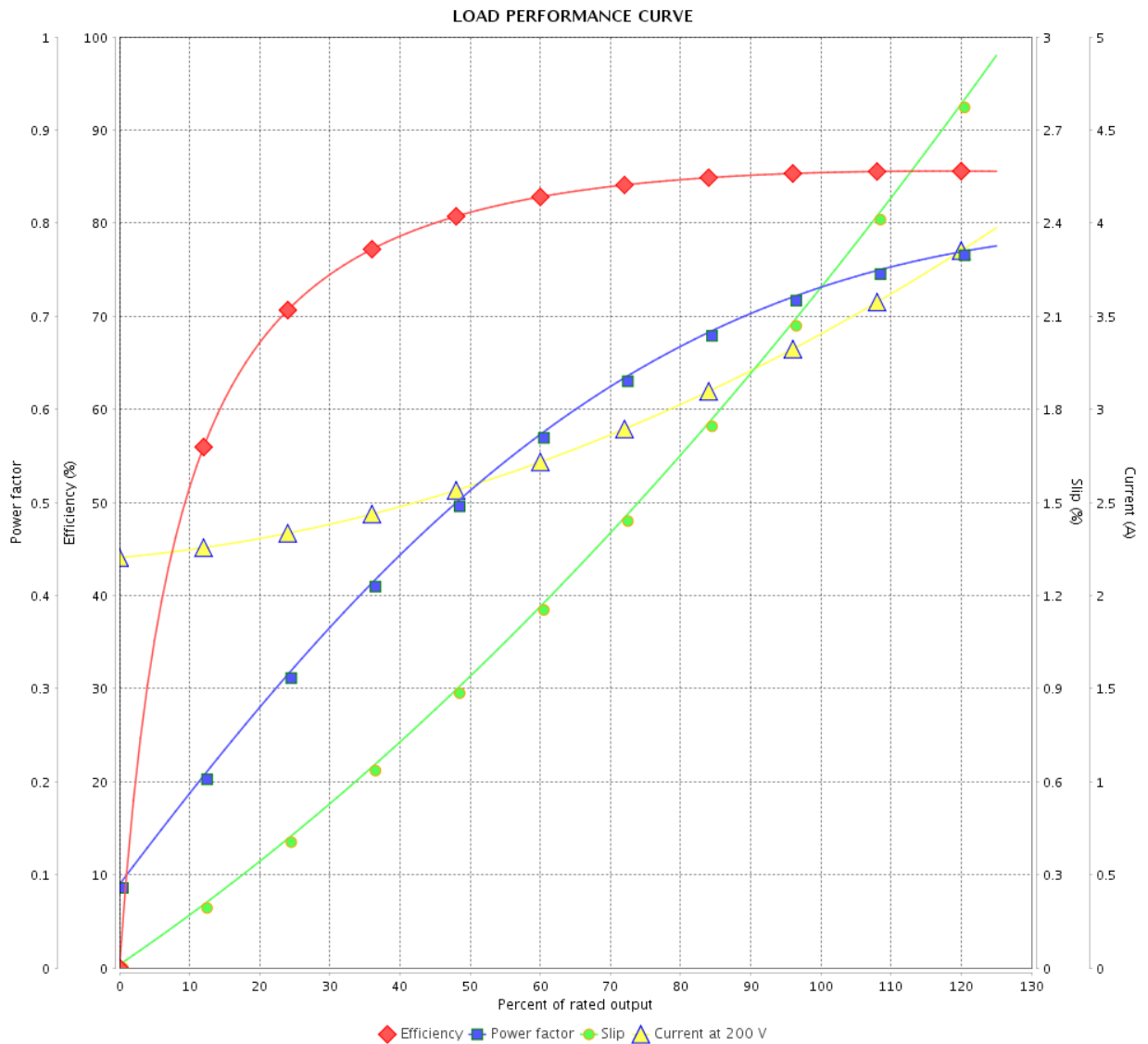


Customer : \_\_\_\_\_

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12674790

Catalog # : 00118OT3P143T-S



Performance : 200 V 60 Hz 4P

Rated current : 3.47 A  
 LRC : 8.0  
 Rated torque : 2.98 ft.lb  
 Locked rotor torque : 290 %  
 Breakdown torque : 360 %  
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.1101 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 :

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Product code : 12674790  
Catalog # : 00118OT3P143T-S

Performance : 200 V 60 Hz 4P

Rated current	: 3.47 A	Moment of inertia (J)	: 0.1101 sq.ft.lb
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 2.98 ft.lb	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.15
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm	Design	: B

Heating constant

Cooling constant

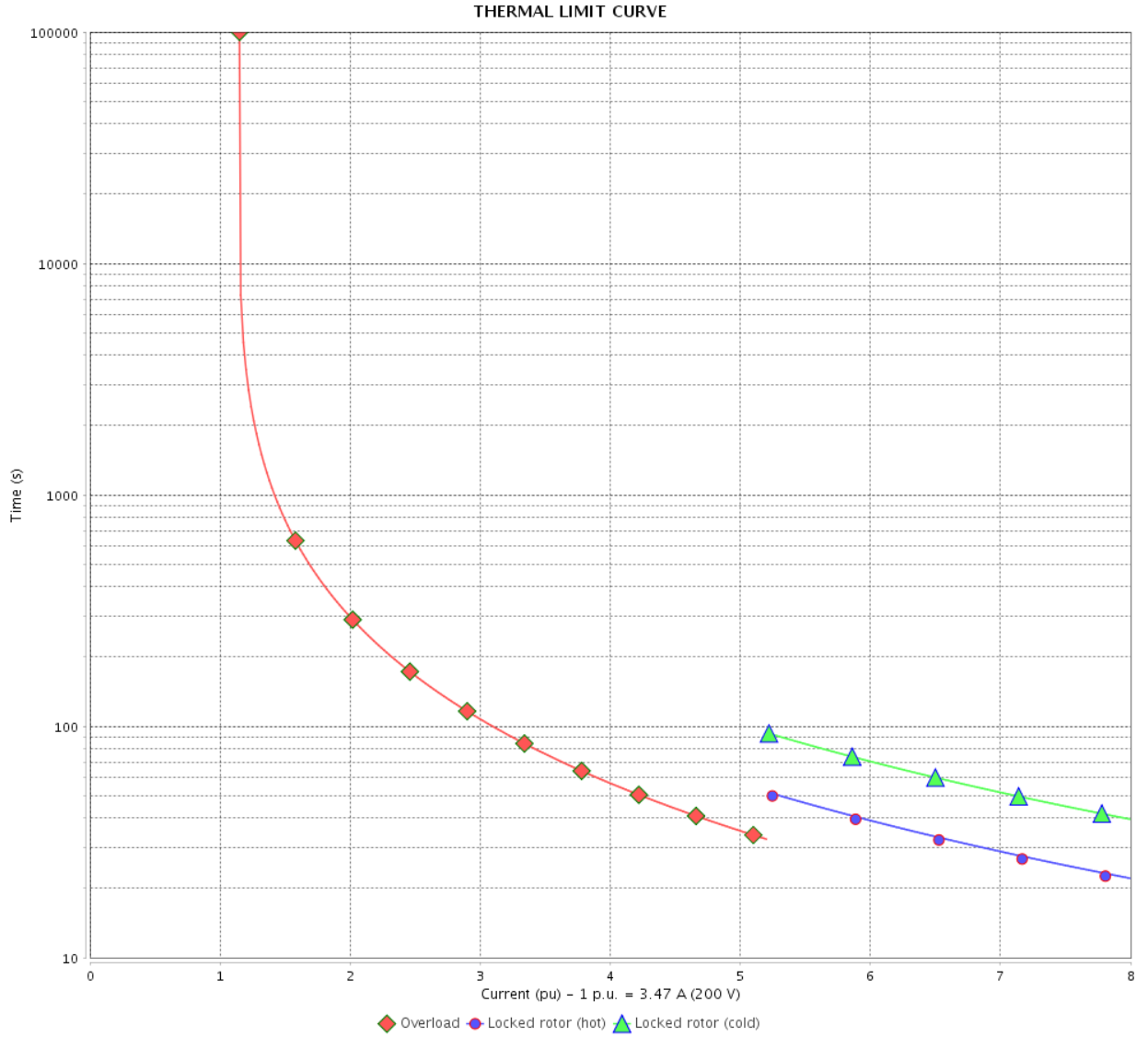
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_



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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

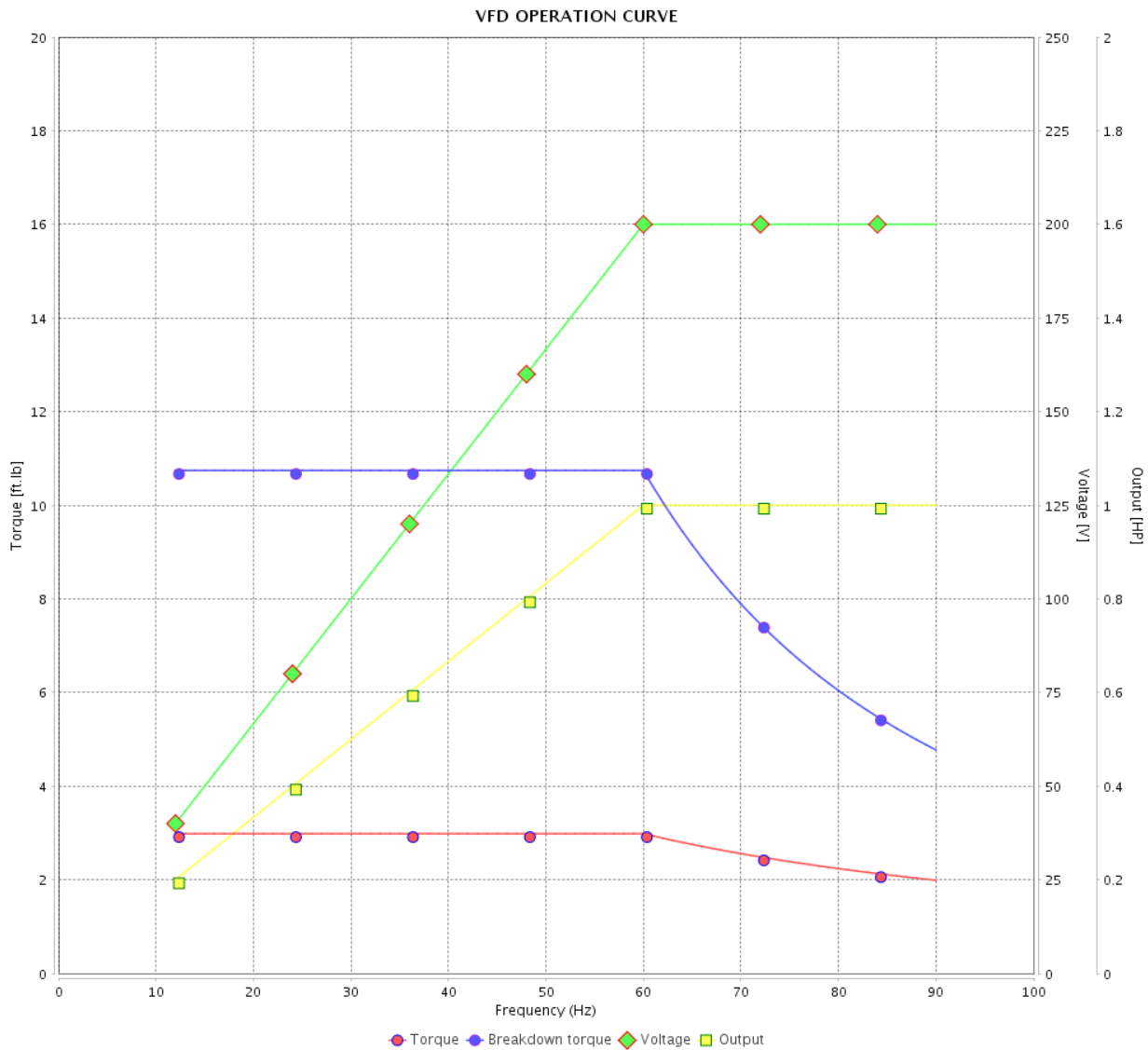


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12674790

Catalog # : 00118OT3P143T-S



Performance : 200 V 60 Hz 4P

Rated current : 3.47 A  
 LRC : 8.0  
 Rated torque : 2.98 ft.lb  
 Locked rotor torque : 290 %  
 Breakdown torque : 360 %  
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.1101 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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1 2 3 4 5 6

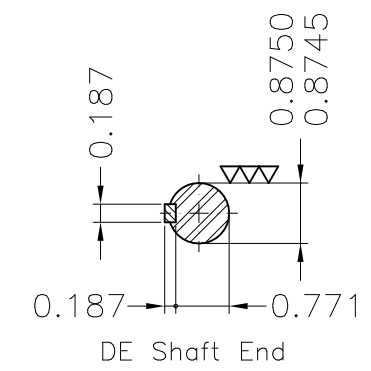
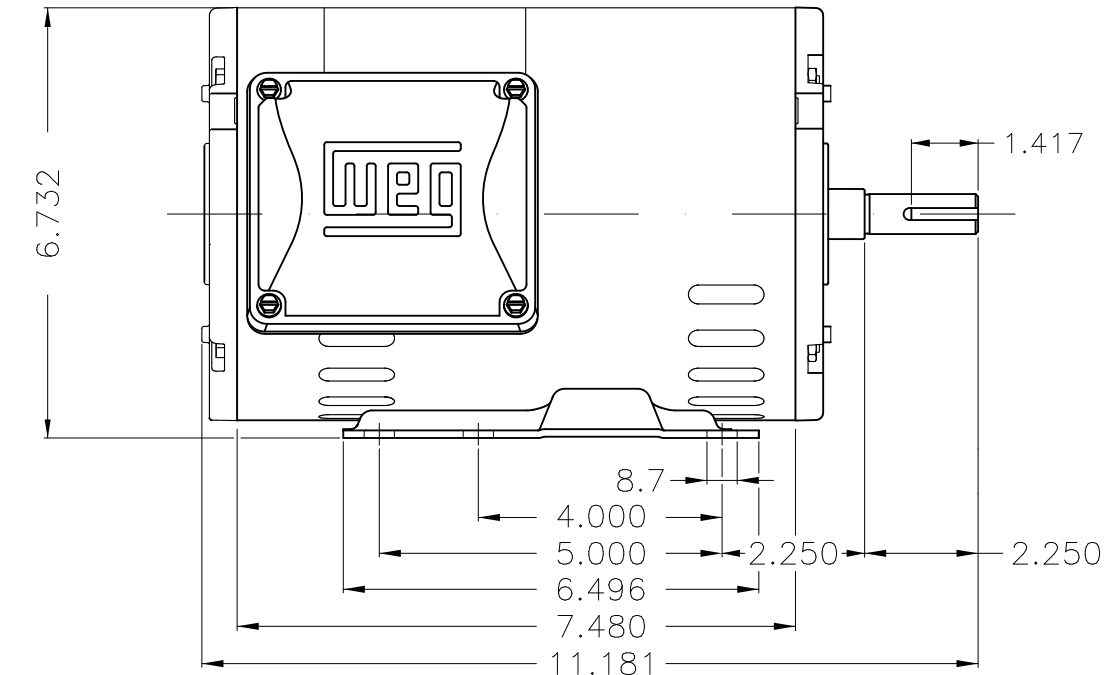
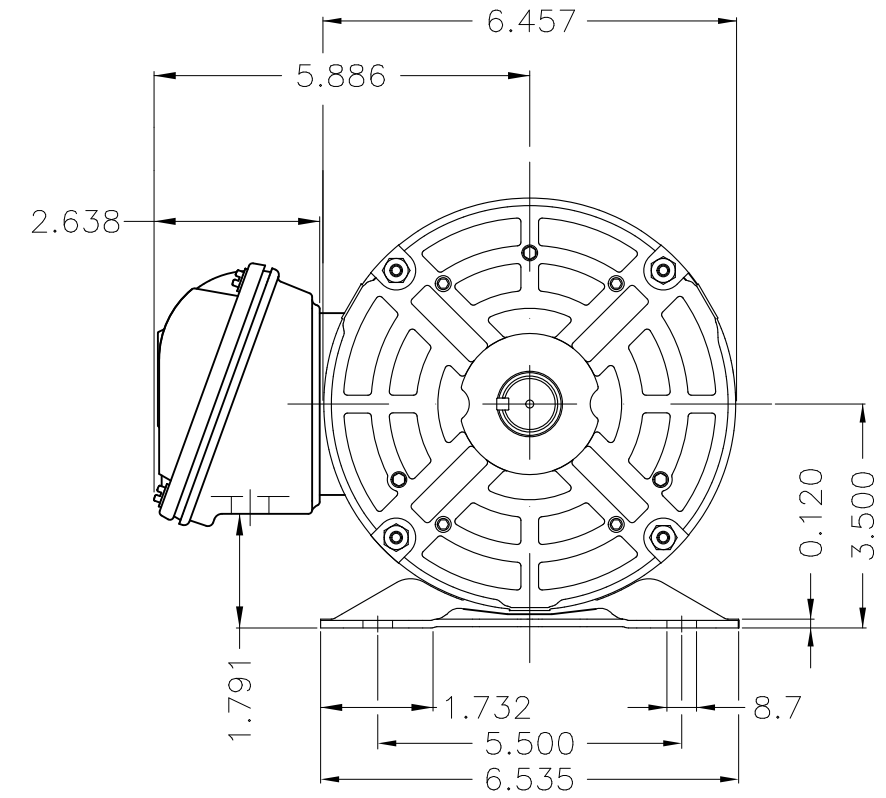
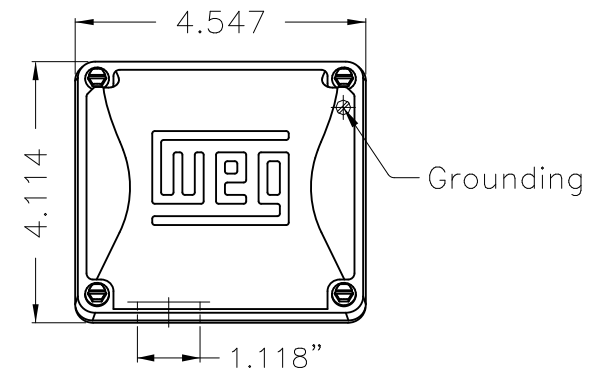
A

B


C

D

E



Dimensions in inches

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.					PREVIEW	WDD	SHEET	1 / 1	
CHECKED		FRAME 143/5T IP21 ODP									
RELEASED											
REL DT.		WMO	Jaragua do Sul	Product Engineering							

1 HP 04 Poles 60 Hz

A

XME A3

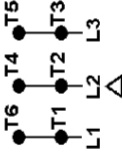
**NEMA  
Premium**

MADE IN BRAZIL

**MAT: 12674790 CC029A**  
**W01.T00IC0X0N**  
**MODEL 001180T3P143T-S**  
**23MAR2022 B/N:**

PH 3	Hz 60	HP 1.0
FR 143/5T		KW 0.75
DUTY CONT.		V 200
ALT 1000 m.a.s.l.		A 3.47
INS CL F AT 80K		SFA 3.99
AMB 40°C	DES B	SF 1.15
ENCL ODP	CODE L	PF 0.73
		RPM 1760
		NEMA NOM. EFF 85.5%

Inverter duty motor For use on VPWM 1000:1 VT, 5:1 CT	
DE 6205-ZZ	ODE 6203-ZZ MOBIL POLYREX EM



T1-BLU  
 T2-WHT  
 T3-ORG  
 T4-YEL  
 T5-BLK  
 T6-GRY

**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.

