

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: NEMA Premium Efficiency Three-Phase		Product code :	14305421	
				Catalog # :	00736ET3H213T-SG	
Frame : 213/5T Output : 7.5 HP (5.5 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 575 V Rated current : 6.94 A L. R. Amperes : 52.7 A LRC : 7.6x(Code H) No load current : 2.65 A Rated speed : 3530 rpm Slip : 1.94 % Rated torque : 11.2 ft.lb Locked rotor torque : 260 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.5496 sq.ft.lb Design : B			Locked rotor time : 27s (cold) 15s (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 <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 70.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 133 lb			
Output		25%	50%	75%	100%	
Efficiency (%)		86.4	87.5	88.5	89.5	
Power Factor		0.49	0.76	0.85	0.89	
Foundation loads						
		Max. traction : 122 lb				
		Max. compression : 255 lb				
Bearing type		<u>Drive end</u>		<u>Non drive end</u>		
Sealing		6208 ZZ		6206 ZZ		
Lubrication interval		V'Ring		Without Bearing Seal		
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	12/04/2022				1 / 6	

# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



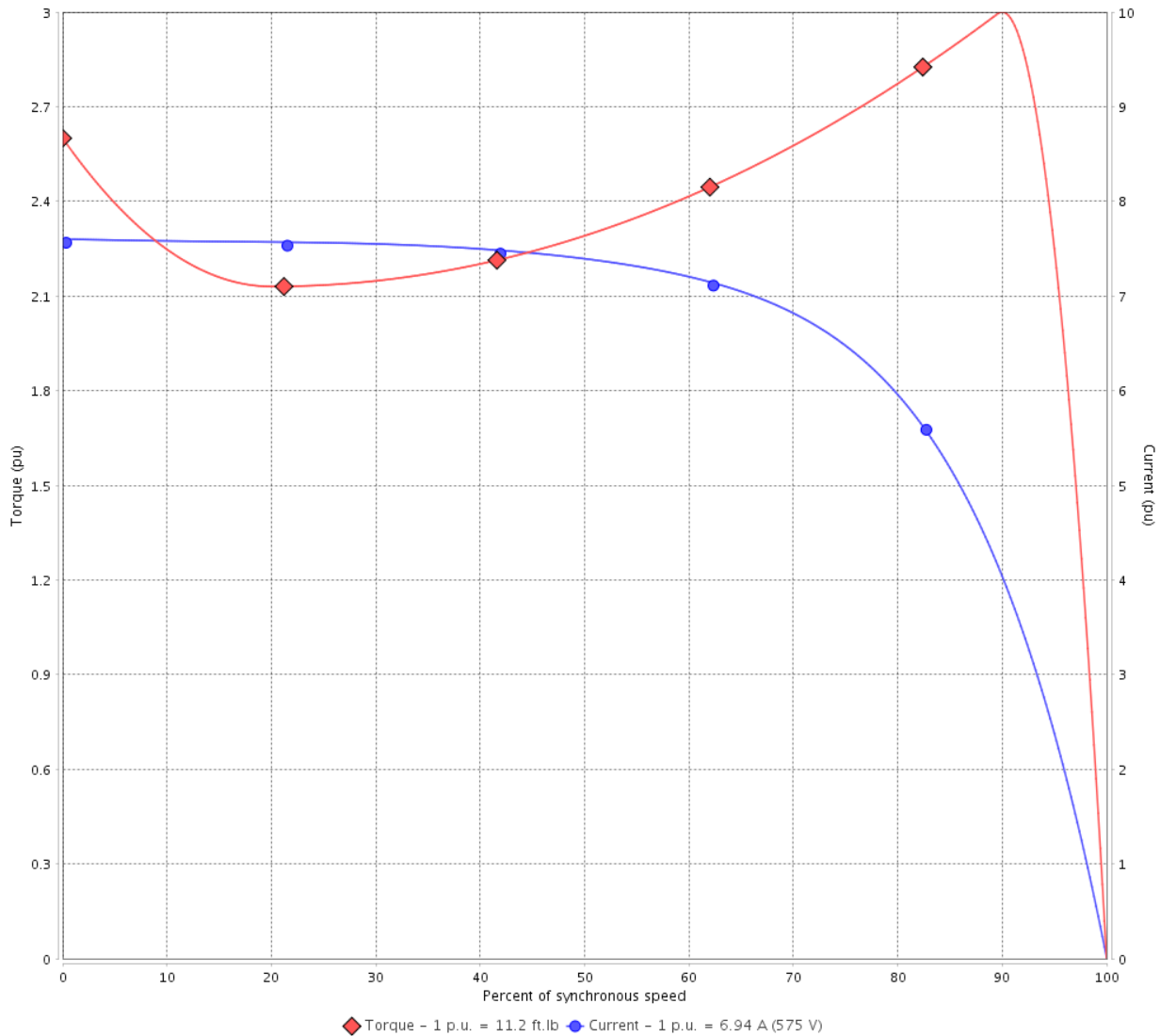
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14305421

Catalog # : 00736ET3H213T-SG

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 6.94 A	Moment of inertia (J)	: 0.5496 sq.ft.lb
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 11.2 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 6	Revision
Checked by				
Date	12/04/2022			

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

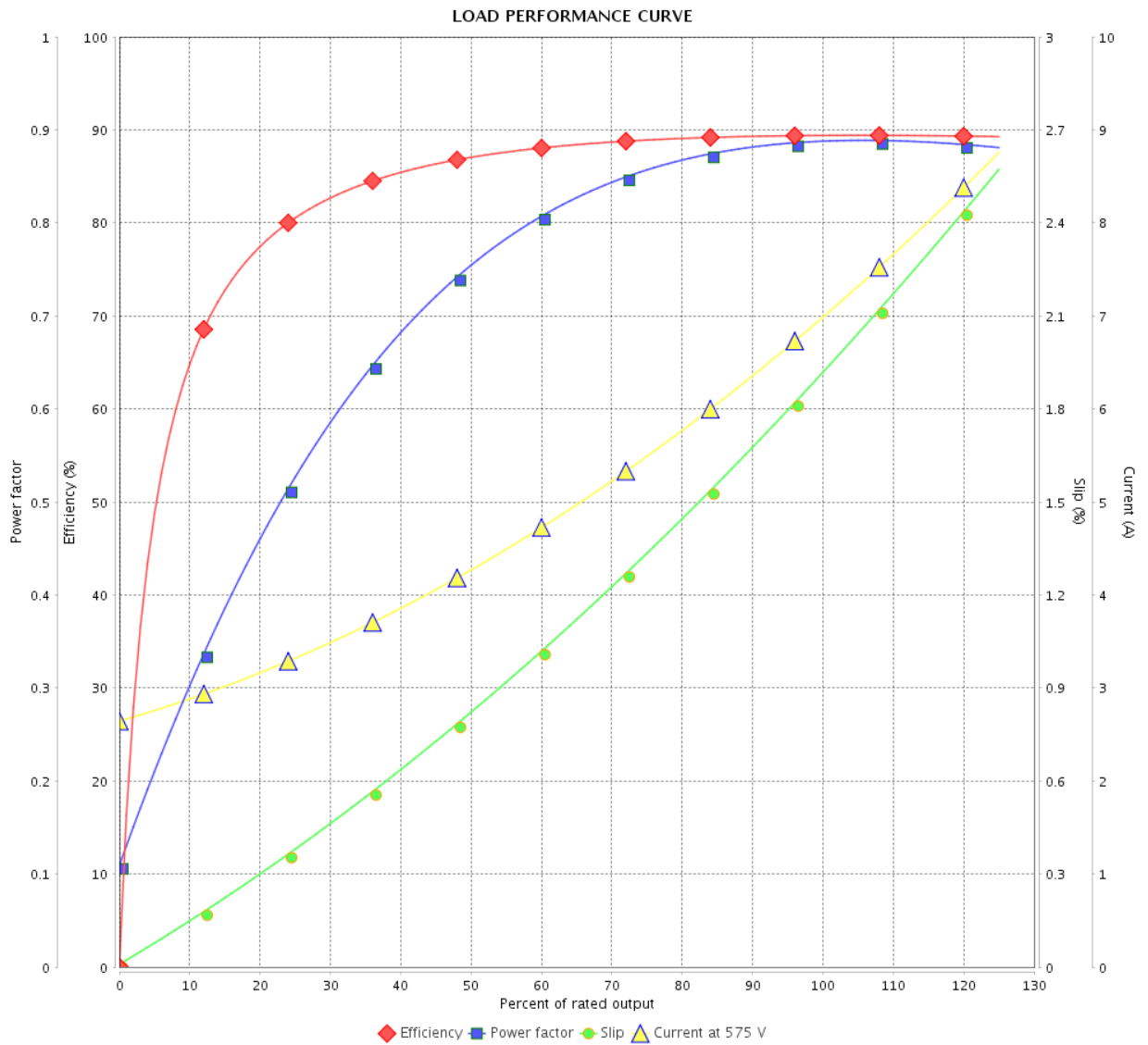


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14305421

Catalog # : 00736ET3H213T-SG



Performance : 575 V 60 Hz 2P

Rated current : 6.94 A  
 LRC : 7.6  
 Rated torque : 11.2 ft.lb  
 Locked rotor torque : 260 %  
 Breakdown torque : 300 %  
 Rated speed : 3530 rpm

Moment of inertia (J) : 0.5496 sq.ft.lb  
 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	12/04/2022			

# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase  
Product code : 14305421  
Catalog # : 00736ET3H213T-SG

Performance : 575 V 60 Hz 2P

Rated current	: 6.94 A	Moment of inertia (J)	: 0.5496 sq.ft.lb
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 11.2 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

Heating constant

Cooling constant

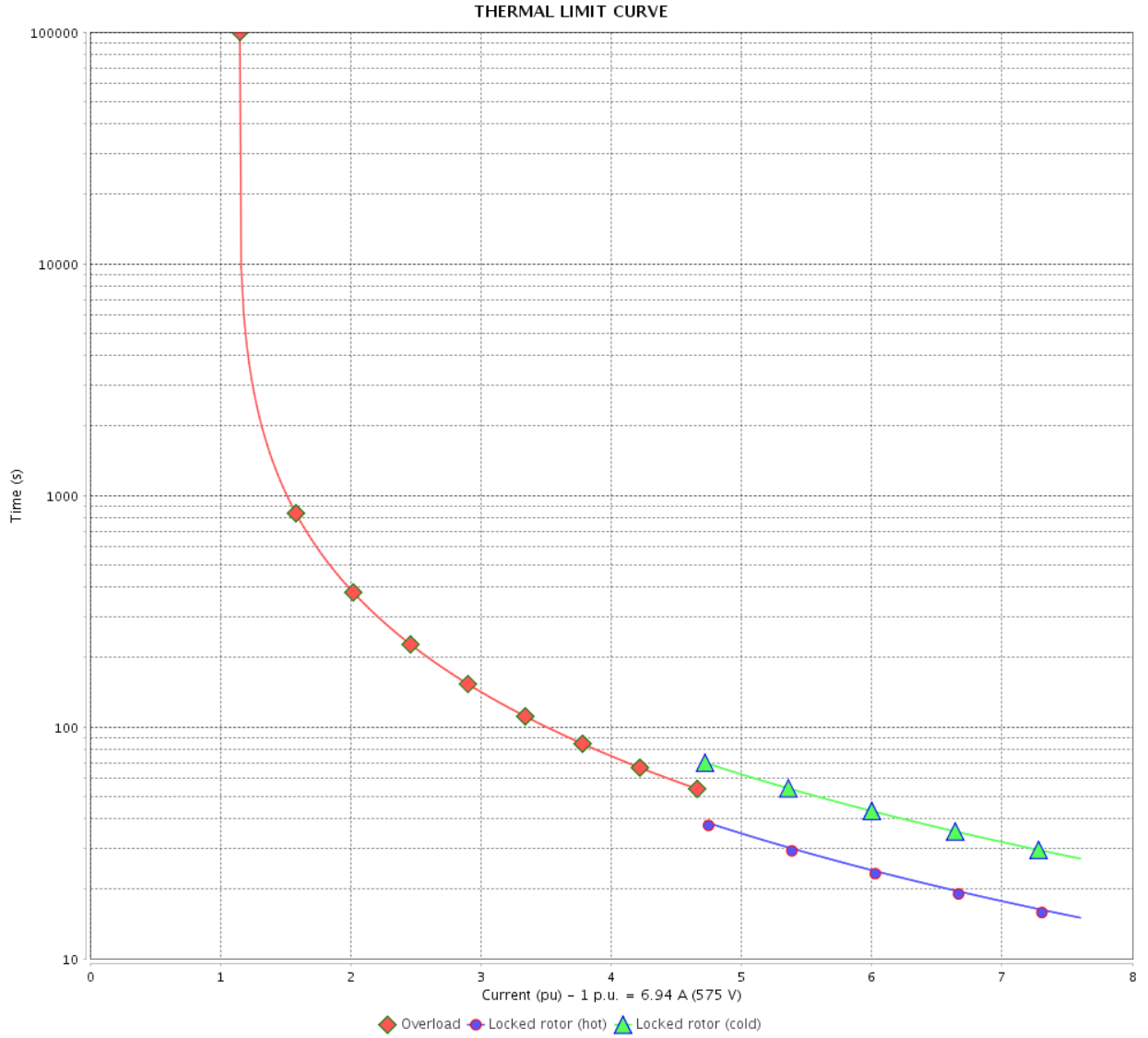
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	12/04/2022		4 / 6	

# 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

Three Phase Induction Motor - Squirrel Cage



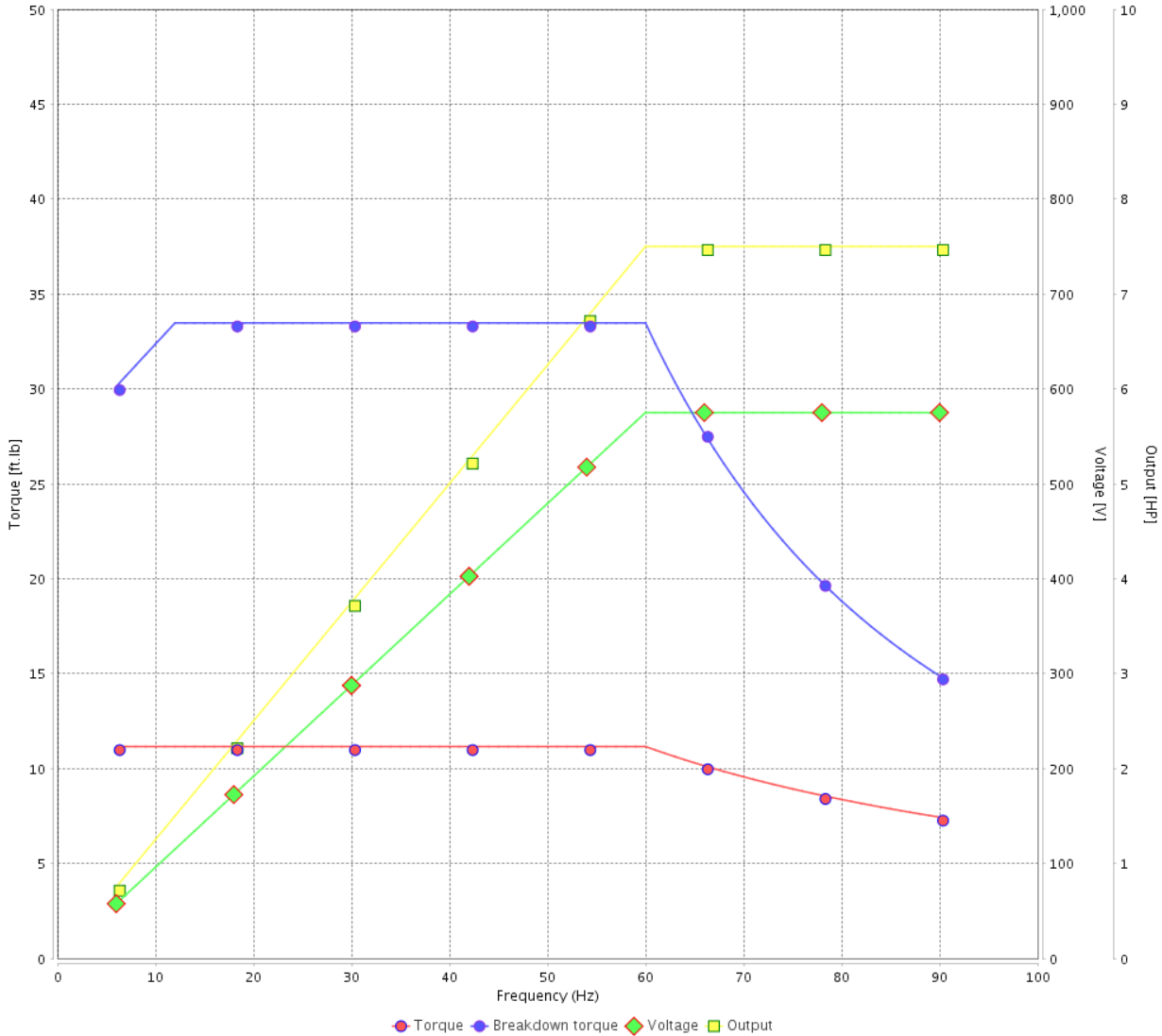
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14305421

Catalog # : 00736ET3H213T-SG

VFD OPERATION CURVE



Performance : 575 V 60 Hz 2P

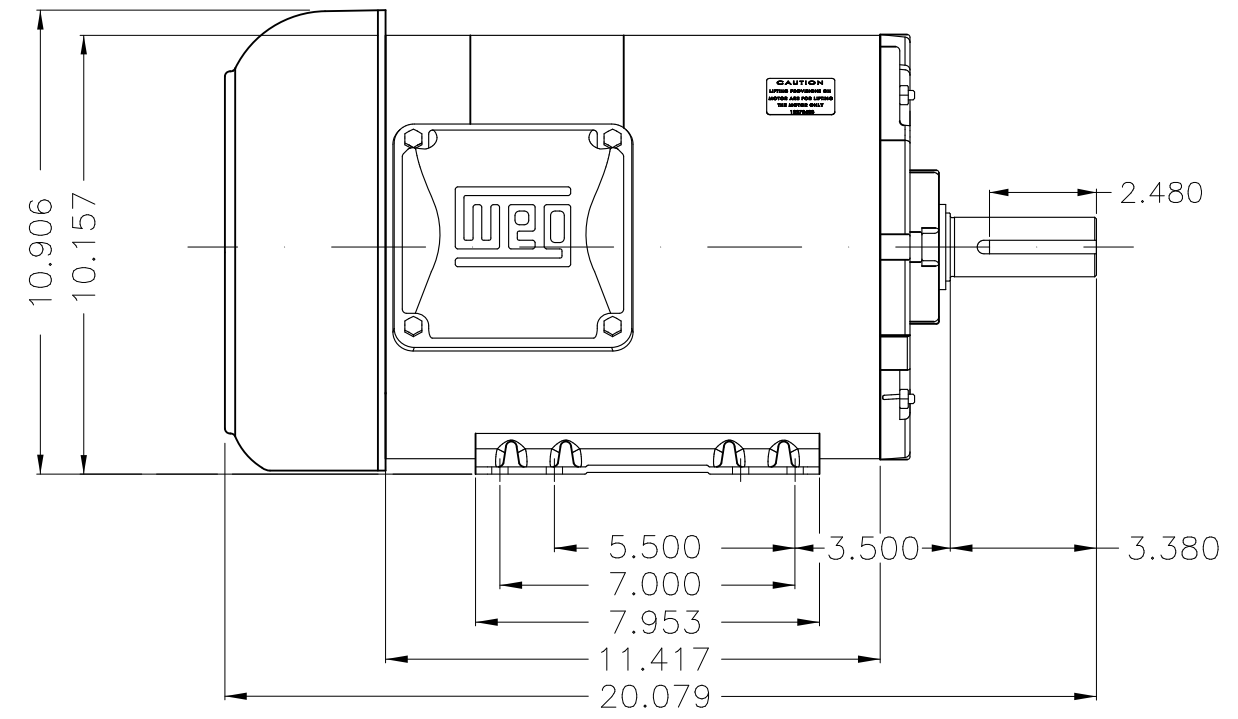
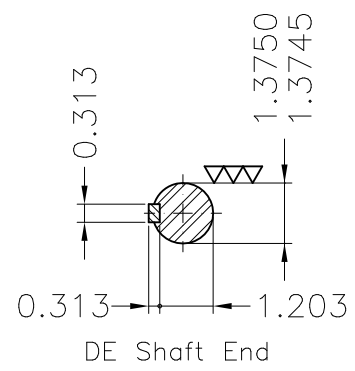
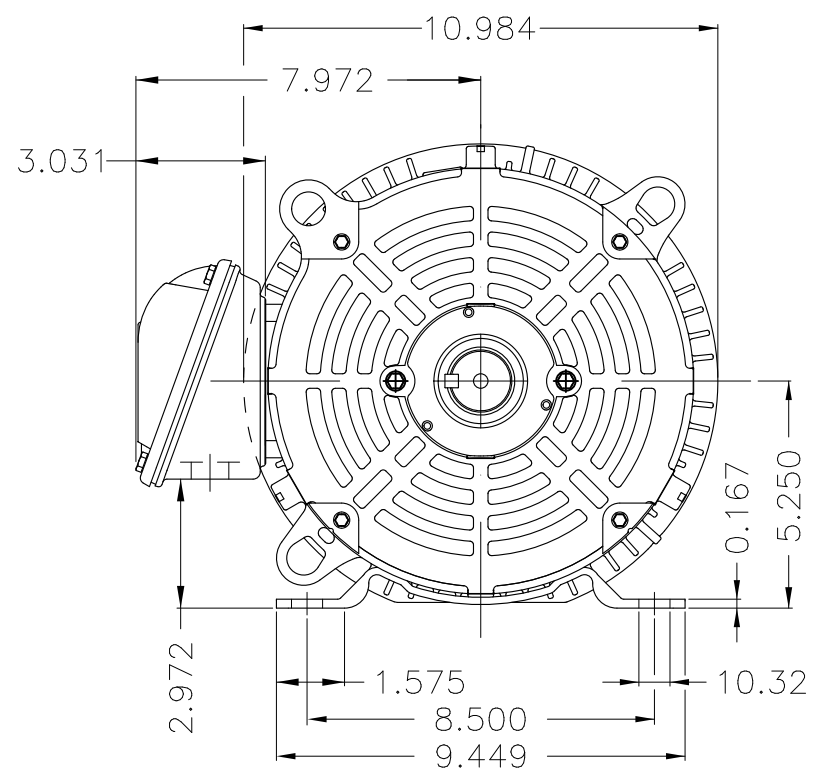
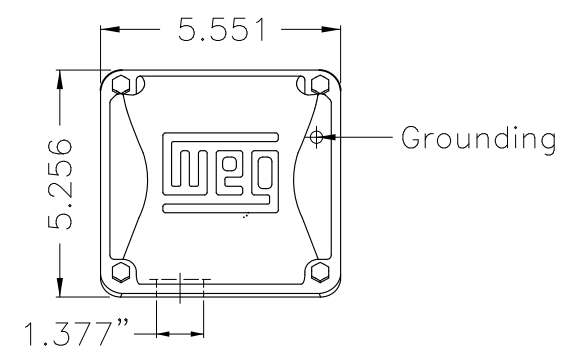
Rated current : 6.94 A  
 LRC : 7.6  
 Rated torque : 11.2 ft.lb  
 Locked rotor torque : 260 %  
 Breakdown torque : 300 %  
 Rated speed : 3530 rpm

Moment of inertia (J) : 0.5496 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

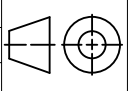
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 6 / 6	Revision
Checked by				
Date	12/04/2022			

1 2 3 4 5 6


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 213/5T IP55 TEFC					
CHECKED							
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET		1 / 1	

7.5 HP 02 Poles 60 Hz

**A** PREVIEW WDD 

Dimensions in inches XME A3

**WEG**  
**NEMA**  
**Premium**3PT9  
C US LISTED

Energy Verified

MADE IN MEXICO

MAT: 14305421 CC029A

W01.TE0IC0X0N

MODEL 00736ET3H213T-SG

01ABR2020 S/N:

PH 3 FR 213/5T |HP(kW) 7.5(5.5)| Hz 60

V 575 RPM 3530

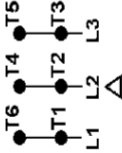
A 6.94 DUTY CONT.

SFA 7.98 CODE H DES B IP55

SF 1.15 INS CL F ΔT 80K AMB 40°C ENCL TEFC

ALT 1000 m.a.s.l. NEMA NOM.EFF. 89.5% PF 0.89

ALTERNATE RATING:



INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

Inverter duty motor For use on VPWM 1000:1 VT, 10:1 CT

DE: 6208-ZZ ODE: 6206-ZZ MOBIL POLYREX EM

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.

