

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :																			
Product line	: NEMA Premium Efficiency Three-Phase																		
Product code :	15533472																		
Catalog # :	00736ET3H213JP-W22																		
Frame : 213/5JP Output : 7.5 HP (5.5 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 575 V Rated current : 7.01 A L. R. Amperes : 50.5 A LRC : 7.2x(Code H) No load current : 2.40 A Rated speed : 3530 rpm Slip : 1.94 % Rated torque : 11.2 ft.lb Locked rotor torque : 210 % Breakdown torque : 300 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.4665 sq.ft.lb Design : B	Locked rotor time : 36s (cold) 20s (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 : 155 lb																		
Output	50% 75% 100%																		
Efficiency (%)	87.5 89.5 89.5																		
Power Factor	0.75 0.84 0.88																		
Foundation loads																			
Max. traction : 111 lb																			
Max. compression : 266 lb																			
	<table border="0"> <tr> <td></td> <td style="text-align: center;"><u>Drive end</u></td> <td style="text-align: center;"><u>Non drive end</u></td> </tr> <tr> <td>Bearing type :</td> <td>6309 Z C3</td> <td>6207 ZZ</td> </tr> <tr> <td>Sealing :</td> <td>V'Ring</td> <td>V'Ring</td> </tr> <tr> <td>Lubrication interval :</td> <td>19000 h</td> <td>40000 h</td> </tr> <tr> <td>Lubricant amount :</td> <td>13 g</td> <td>0 g</td> </tr> <tr> <td>Lubricant type :</td> <td colspan="2" style="text-align: center;">Mobil Polyrex EM</td> </tr> </table>		<u>Drive end</u>	<u>Non drive end</u>	Bearing type :	6309 Z C3	6207 ZZ	Sealing :	V'Ring	V'Ring	Lubrication interval :	19000 h	40000 h	Lubricant amount :	13 g	0 g	Lubricant type :	Mobil Polyrex EM	
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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



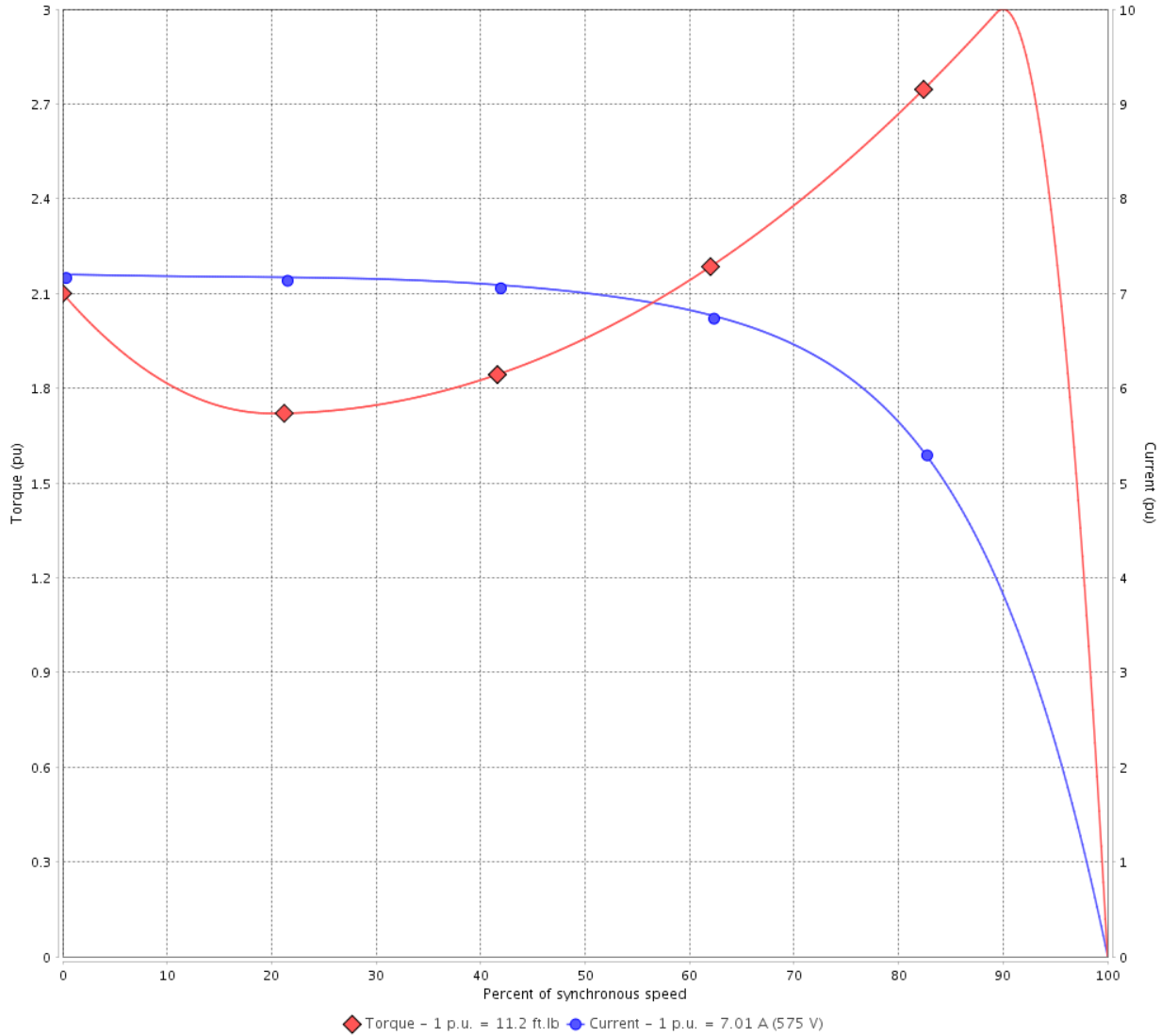
Customer :

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TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 7.01 A	Moment of inertia (J)	: 0.4665 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 11.2 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

Locked rotor time : 36s (cold) 20s (hot)

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Checked by				
Date	12/04/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

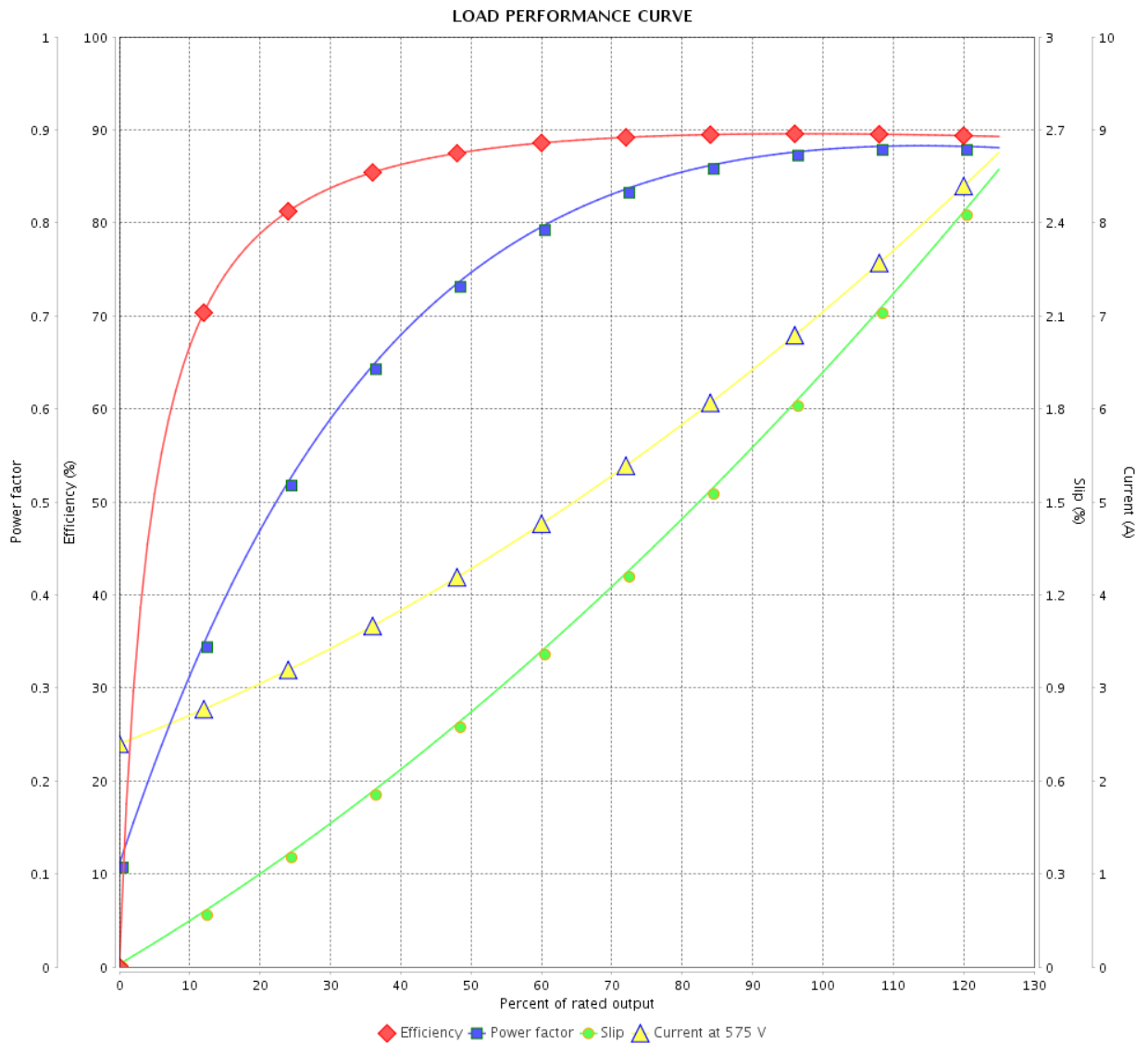


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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

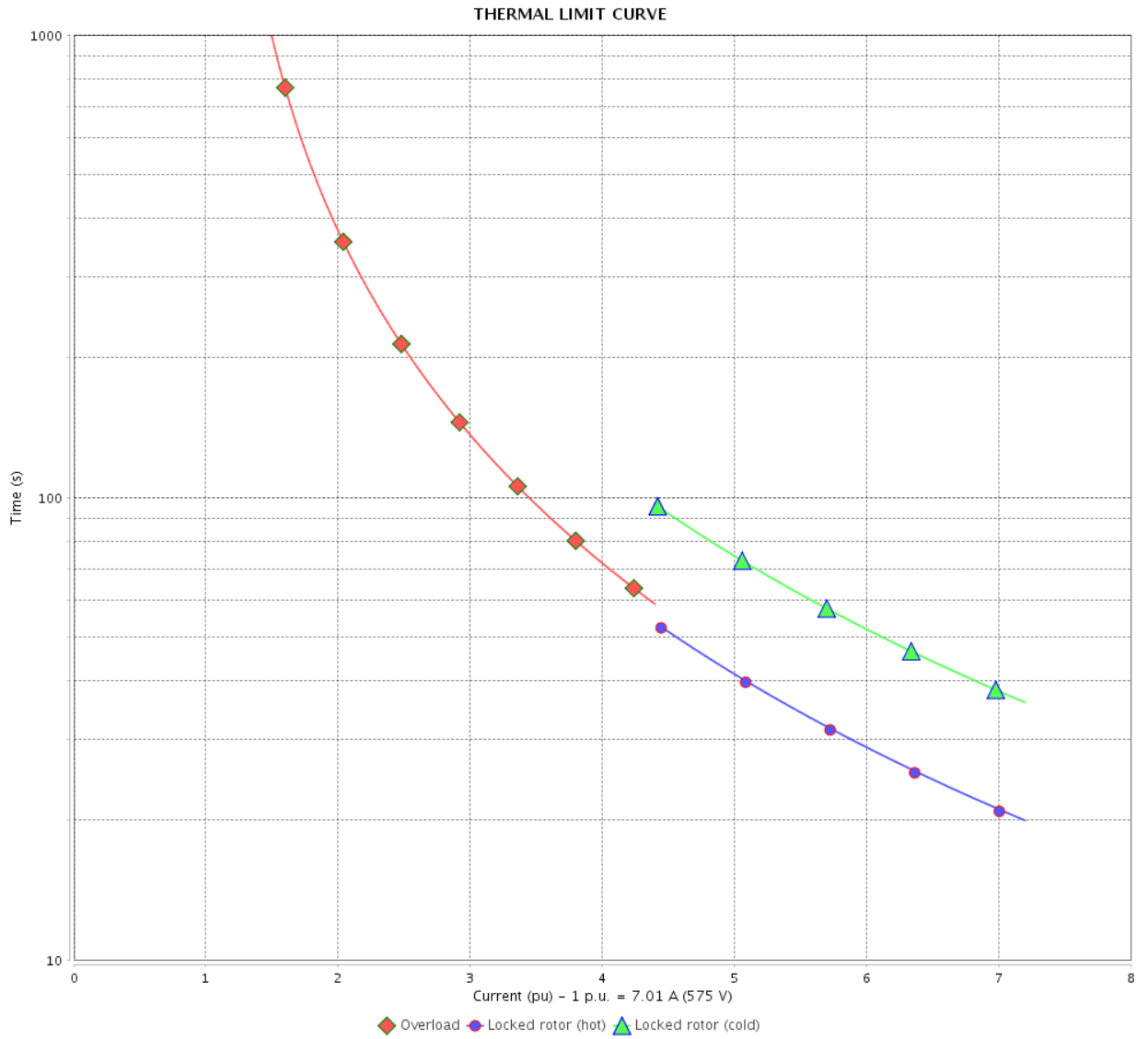
Rev.	Changes Summary	Performed	Checked	Date
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



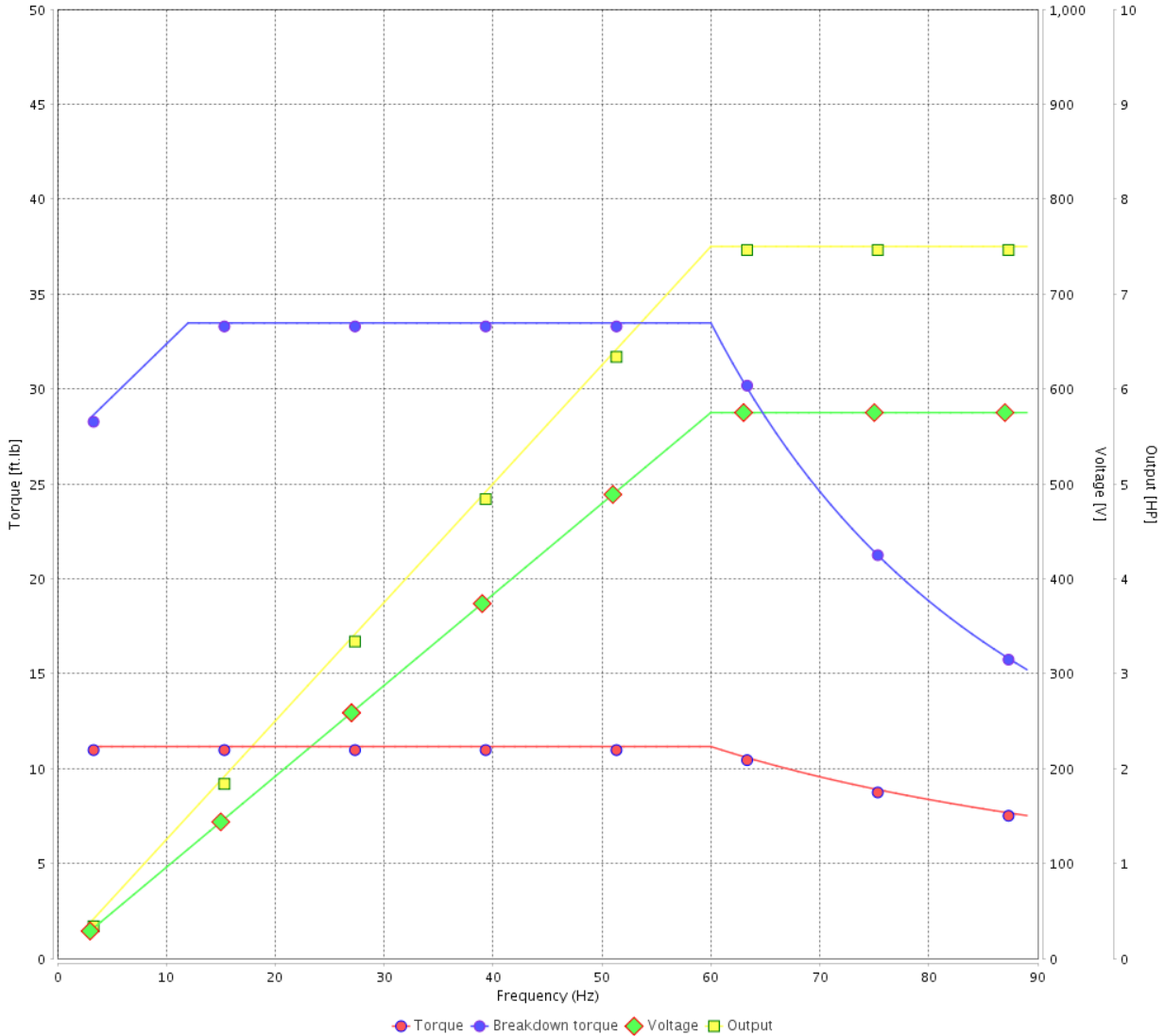
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 Temperature rise : 80 K
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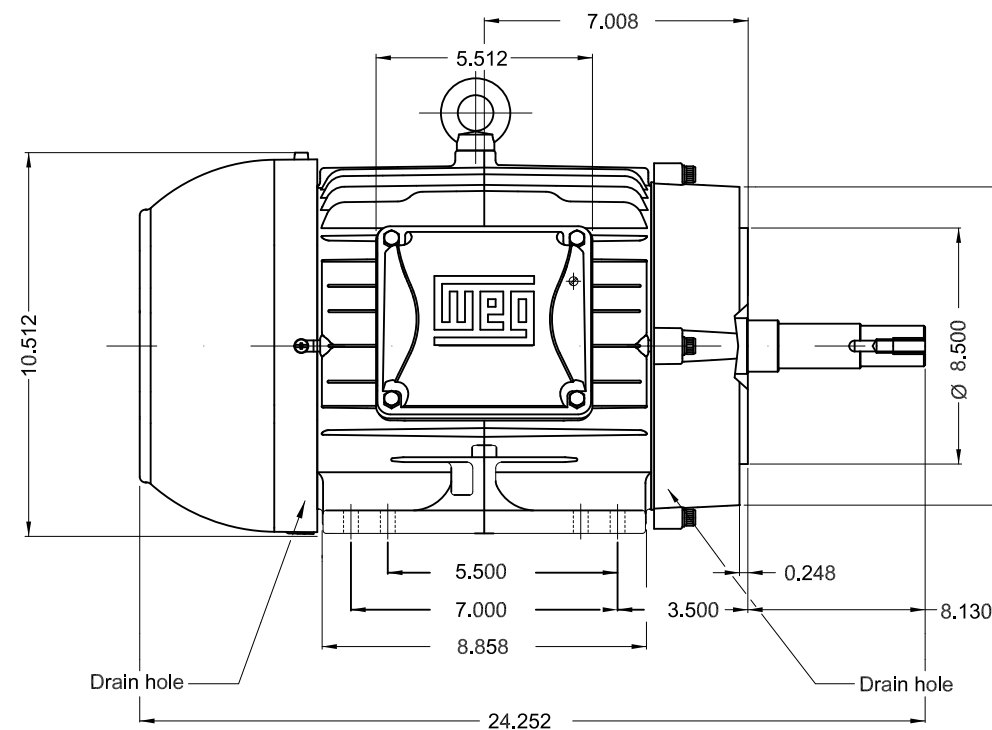
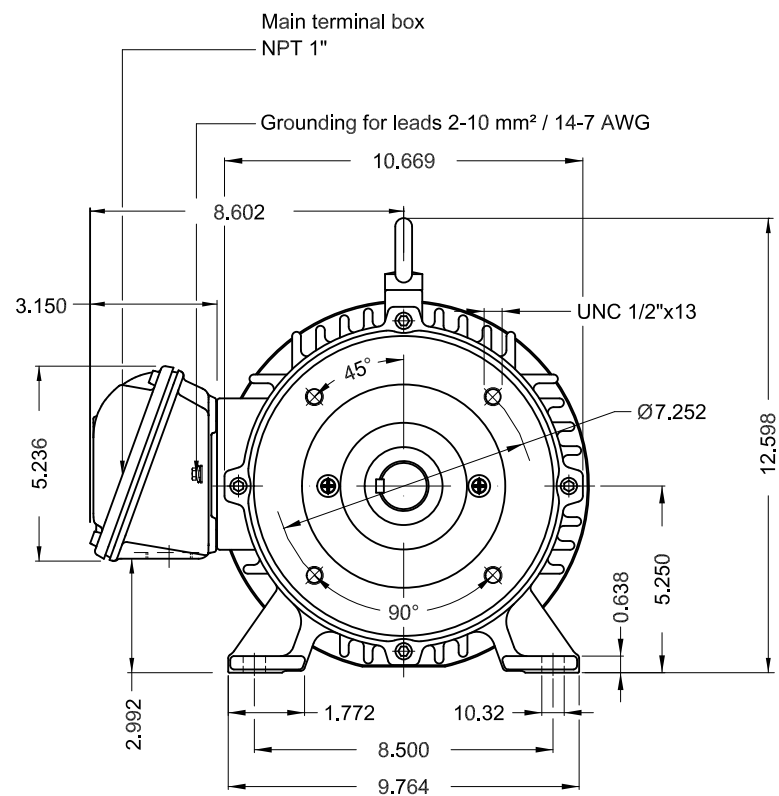
Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
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Date	12/04/2022			

1 2 3 4 5 6

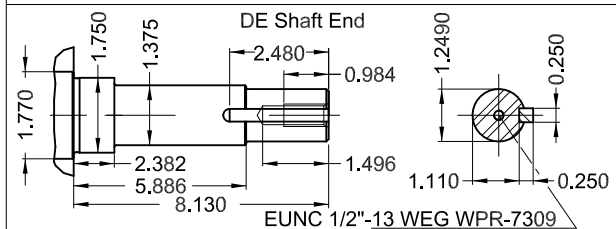
A

B

C



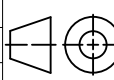
D



E

Color RAL 5009
 Painting plan 207A
 Mounting NEMA F-1
 Mounting B34R(D)

7.5 HP 02 Poles 60 Hz A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	 THREE PH. MOTOR JM/JP/JET PUMP W22 PREM. EFF. FRAME 213/5JP IP55 TEFC					
CHECKED							
RELEASED							
REL DT.	WMO		Jaragua do Sul	Product Engineering	SHEET	1 / 1	

PREVIEW
 WDD



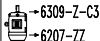
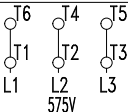
Dimensions in inches XME A3

**W22**
CC029A® Inverter Duty Motor
Severe Duty

15533472

MADE IN BRAZIL MODEL 00736ET3H213JP-W22

PH 3	FR 213/5JP	HP(kW) 7.5(5.5)	Hz 60	SF 1.25	PF 0.88
V 575	A 7.01	RPM 3520	INS. CL.F	ΔT 80 K	
NEMA NOM EFF 89.5 %			DES B	DUTY CONT.	
ENCL TEFC			IP55	SFA 8.76	ALT 1000 m.a.s.l.
					CODE H

MOBIL POLYREX EM
13 g 19000 h

165 Lbs

Class I, Div 2, Gr. A, B, C and D - T3

Class I, Zone 2, IIC - T3

Class II, Div 2, Gr. F and G - T4

For use on PWM, Gr. A, B, C, D and F

VT 1000:1, CT 20:1, 1.0SF, T3A

FOR SAFE AREA
MOD.TE1BFOXON