

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :																			
Product line	: NEMA Premium Efficiency Three-Phase																		
Product code :	12598736																		
Catalog # :	00718ET3H213JP-W22																		
Frame : 213/5JP Output : 7.5 HP (5.5 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 575 V Rated current : 7.34 A L. R. Amperes : 52.1 A LRC : 7.1x(Code H) No load current : 3.52 A Rated speed : 1765 rpm Slip : 1.94 % Rated torque : 22.3 ft.lb Locked rotor torque : 220 % Breakdown torque : 310 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 1.34 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 <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 58.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 173 lb																		
Output	25%    50%    75%    100%																		
Efficiency (%)	88.6    89.5    91.0    91.7																		
Power Factor	0.40    0.66    0.76    0.82																		
Foundation loads																			
Max. traction : 303 lb																			
Max. compression : 477 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>20000 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 :	20000 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	13/04/2022		1 / 6																

# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage



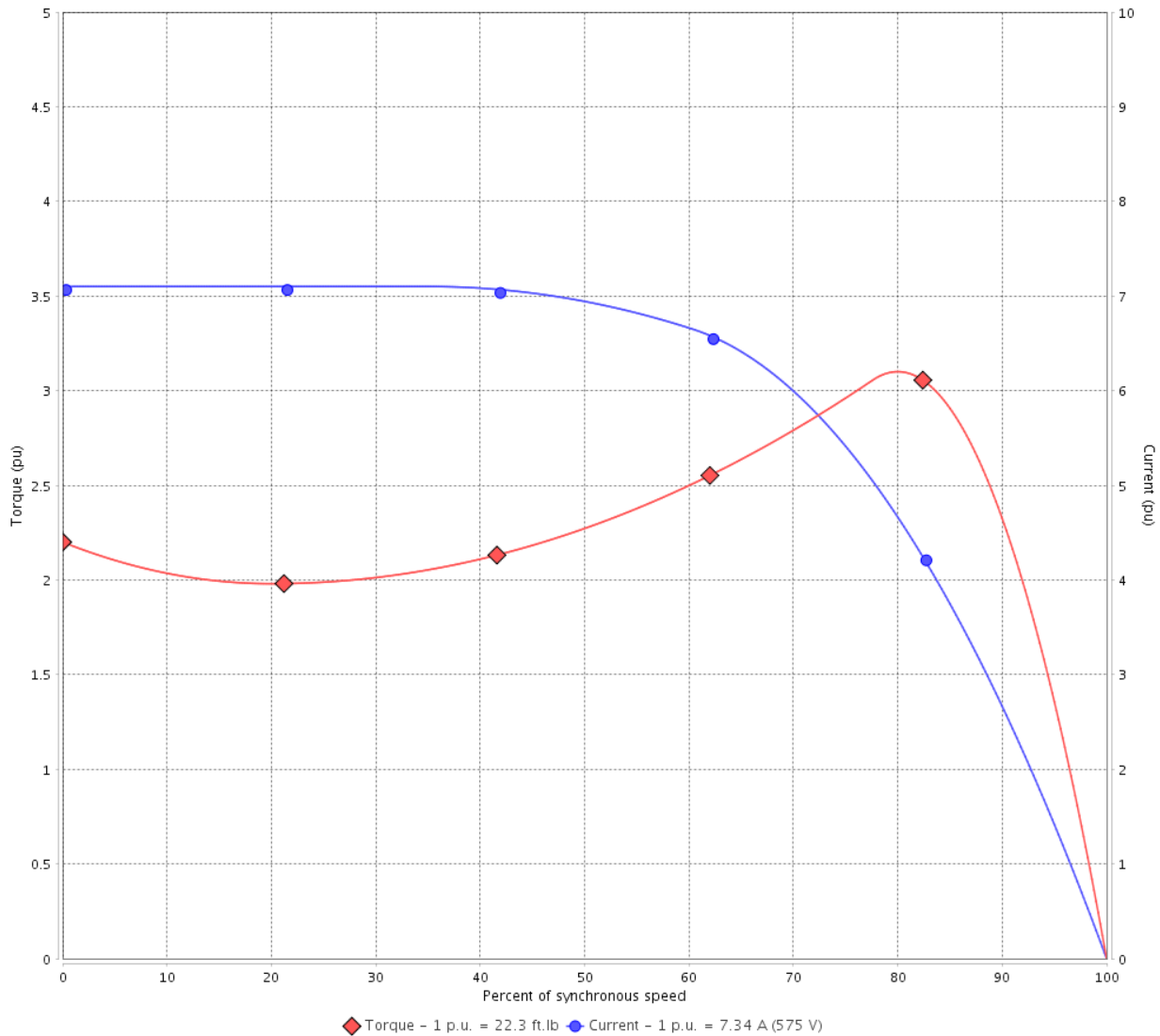
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12598736

Catalog # : 00718ET3H213JP-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 4P

Rated current	: 7.34 A	Moment of inertia (J)	: 1.34 sq.ft.lb
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 22.3 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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

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Performed by			Page 2 / 6	Revision
Checked by				
Date	13/04/2022			

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

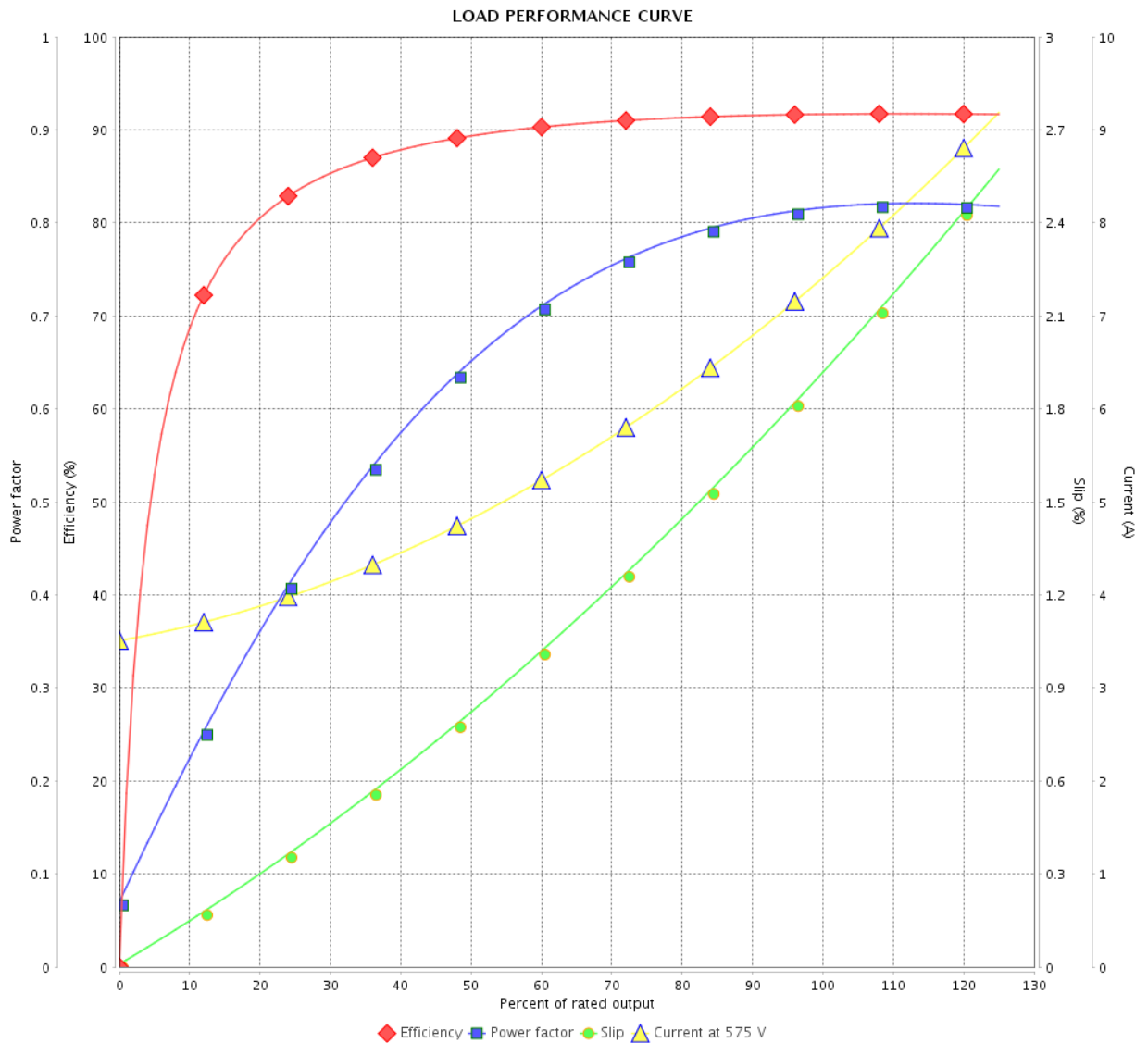


Customer : \_\_\_\_\_

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12598736

Catalog # : 00718ET3H213JP-W22



Performance : 575 V 60 Hz 4P

Rated current : 7.34 A  
 LRC : 7.1  
 Rated torque : 22.3 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 310 %  
 Rated speed : 1765 rpm

Moment of inertia (J) : 1.34 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

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Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

Heating constant

Cooling constant

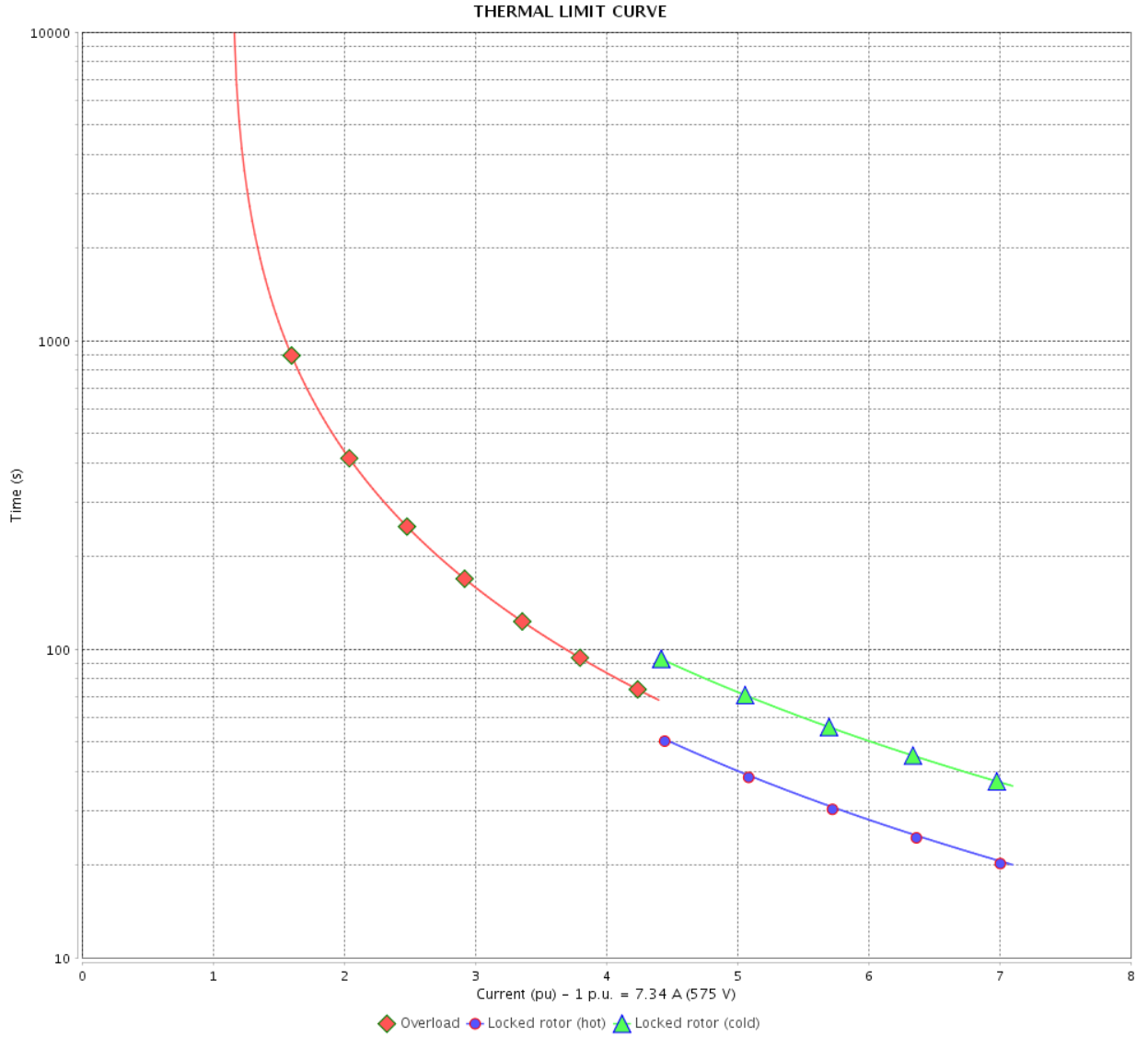
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



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Checked by				
Date				

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



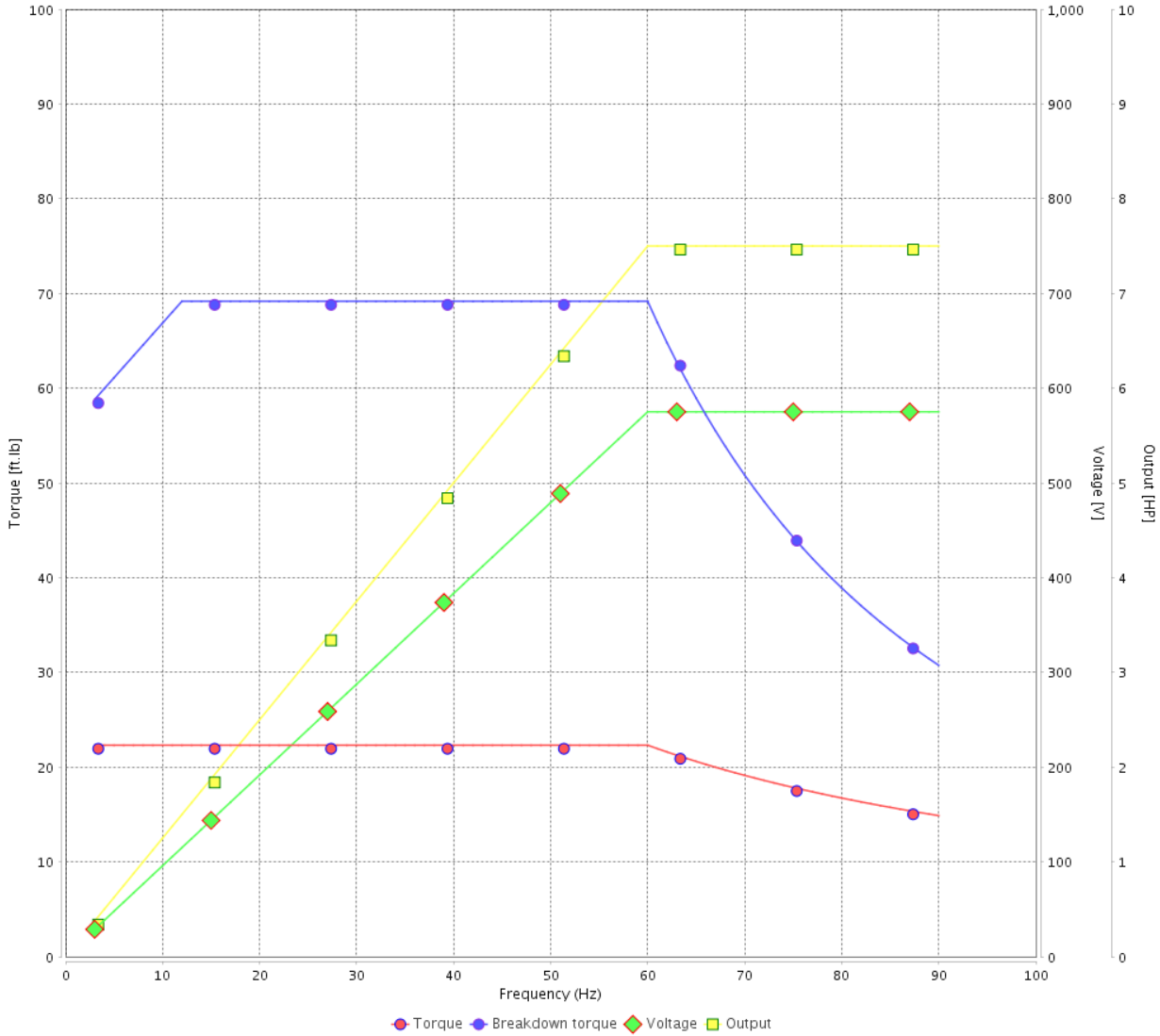
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Product line : NEMA Premium Efficiency Three-Phase

Product code : 12598736

Catalog # : 00718ET3H213JP-W22

VFD OPERATION CURVE



Performance : 575 V 60 Hz 4P

Rated current : 7.34 A  
 LRC : 7.1  
 Rated torque : 22.3 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 310 %  
 Rated speed : 1765 rpm

Moment of inertia (J) : 1.34 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

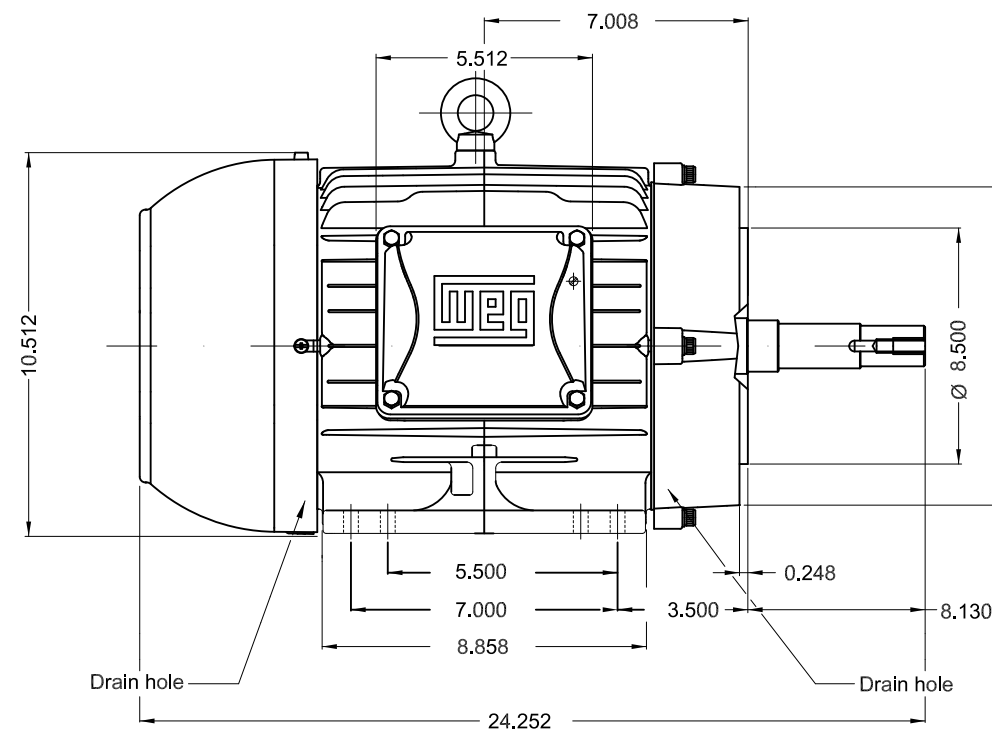
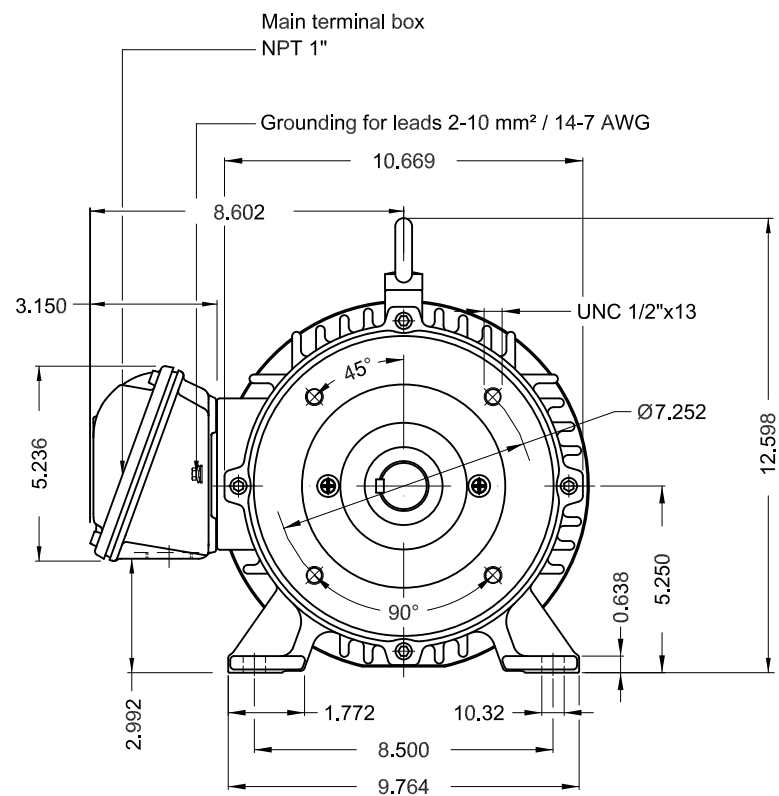
Rev.	Changes Summary	Performed	Checked	Date
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Date	13/04/2022			

1 2 3 4 5 6

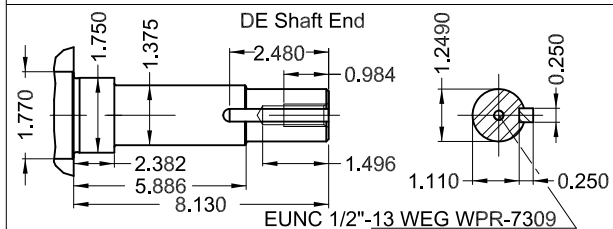
A

B

C



D



E

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

7.5 HP 04 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



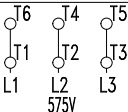
Dimensions in inches XME A3

**W22**  
CC029A**NEMA Premium***Inverter Duty Motor  
Severe Duty*

12598736

MADE IN BRAZIL JP007504NPW22

PH 3	FR 213/5JP	HP(kW) 7.5(5.5)	Hz 60	SF 1.25	PF 0.82
V 575	A 7.34	RPM 1765	INS. CL.F $\Delta$ T 80 K		
NEMA NOM EFF 91.7 %				DES B DUTY CONT.	
ENCL TEFC				IP55 SFA 9.18	
					ALT 1000 m.a.s.l.
					CODE H



→6309-Z-C3

→6207-ZZ

MOBIL POLYREX EM

13 g 20000 h

172

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

C US  
Energy Verified3PT9  
US LISTEDFOR SAFE AREA  
MOD.TE1BFOXON