

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :																			
Product line	: NEMA Premium Efficiency Three-Phase																		
Product code :	13506429																		
Catalog # :	04036ET3H286JP-W22																		
Frame : 284/6JP Output : 40 HP (30 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 575 V Rated current : 36.6 A L. R. Amperes : 289 A LRC : 7.9x(Code J) No load current : 9.71 A Rated speed : 3540 rpm Slip : 1.67 % Rated torque : 59.3 ft.lb Locked rotor torque : 220 % Breakdown torque : 300 % Insulation class : F Service factor : 1.00 Design : A	Locked rotor time : 18s (cold) 10s (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 : 72.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 437 lb																		
Output	25% 50% 75% 100%																		
Efficiency (%)	0.000 91.7 92.4 92.4																		
Power Factor	0.00 0.80 0.86 0.89																		
Foundation loads																			
Max. traction	: 558 lb																		
Max. compression	: 994 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>6311 C3</td> <td>6211 C3</td> </tr> <tr> <td>Sealing :</td> <td>V'Ring</td> <td>V'Ring</td> </tr> <tr> <td>Lubrication interval :</td> <td>14000 h</td> <td>17000 h</td> </tr> <tr> <td>Lubricant amount :</td> <td>18 g</td> <td>11 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 :	6311 C3	6211 C3	Sealing :	V'Ring	V'Ring	Lubrication interval :	14000 h	17000 h	Lubricant amount :	18 g	11 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															
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



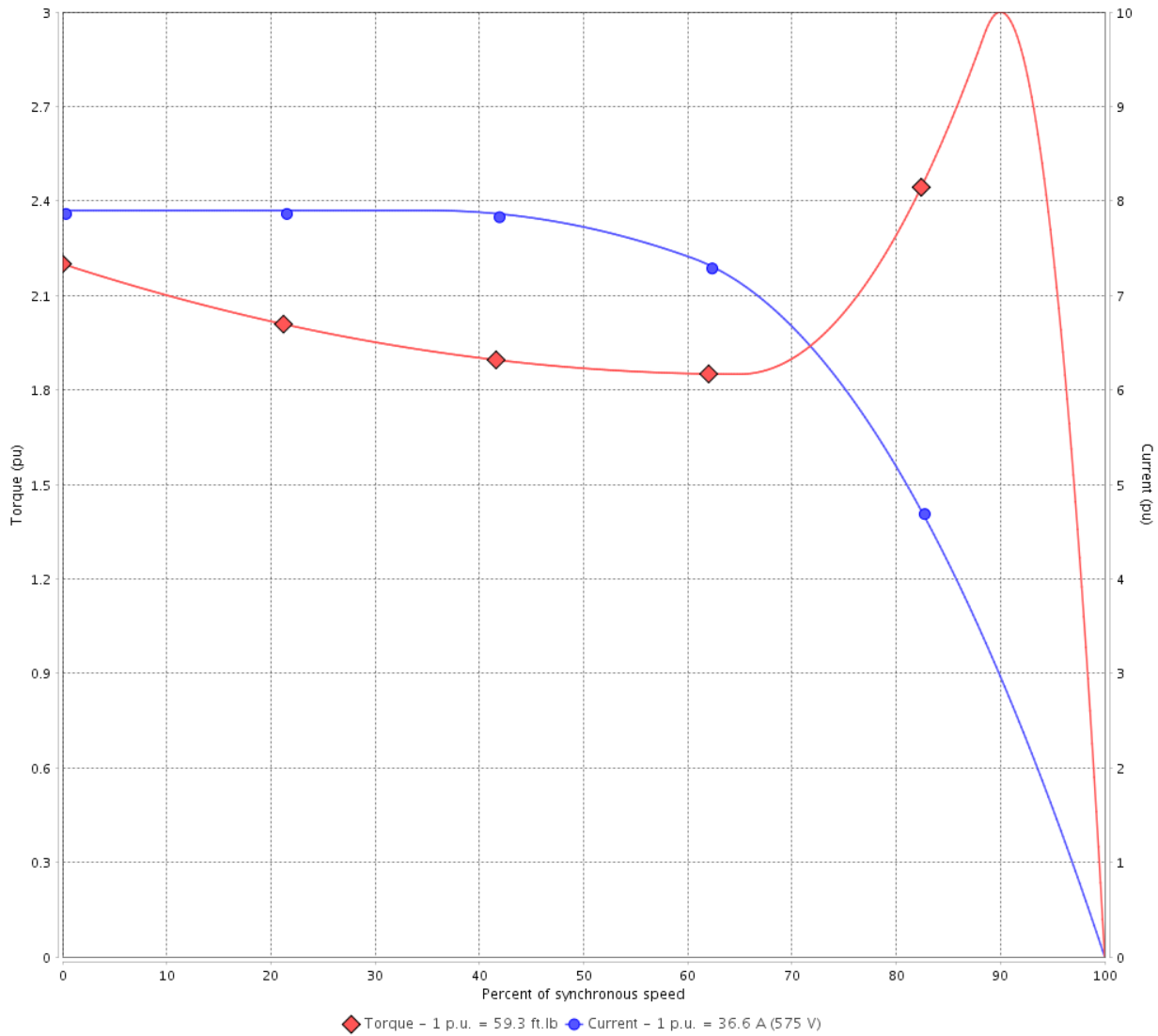
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 36.6 A	Moment of inertia (J)	
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 59.3 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3540 rpm	Design	: A

Locked rotor time : 18s (cold) 10s (hot)

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LOAD PERFORMANCE CURVE

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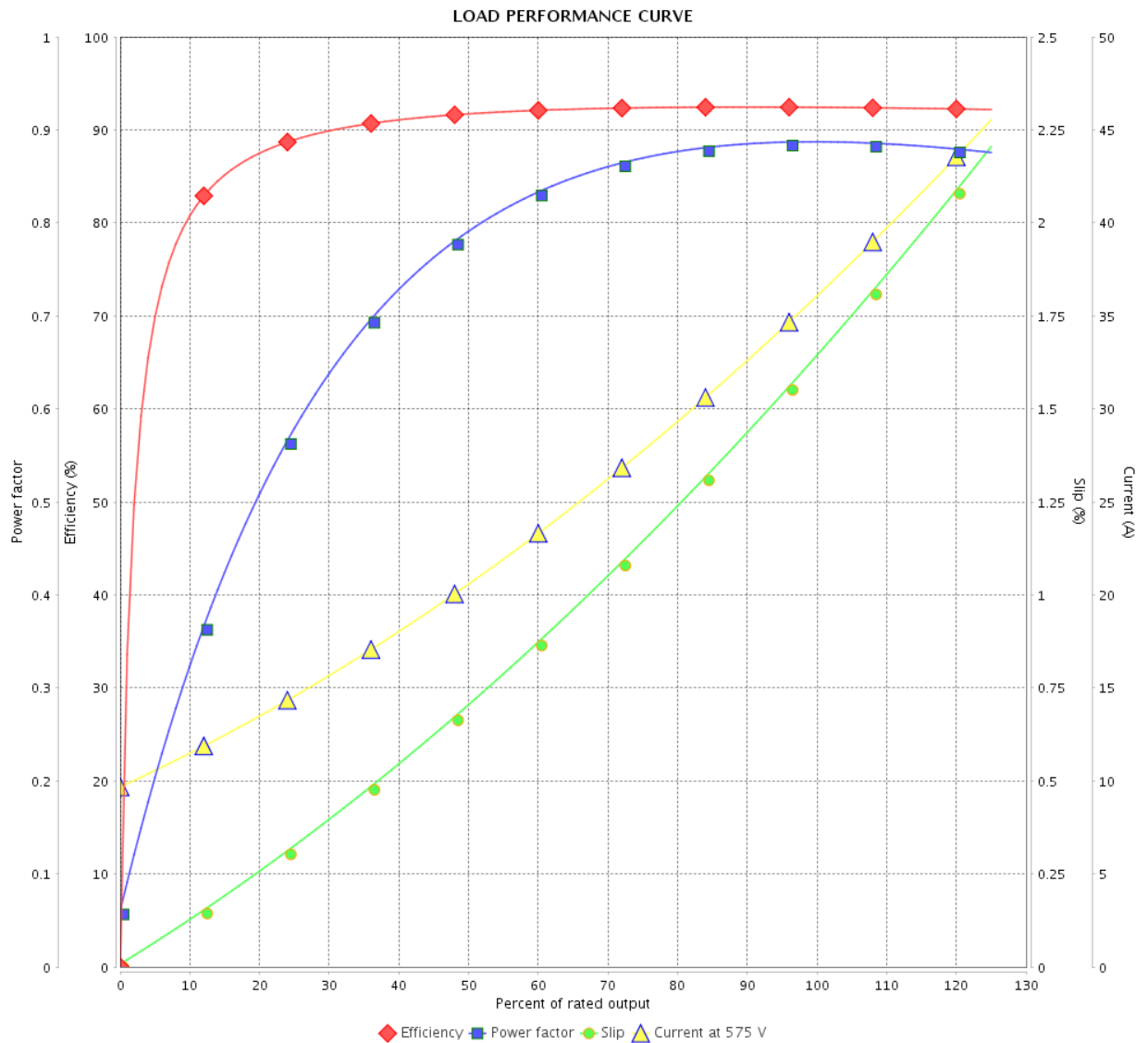


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Moment of inertia (J)
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : A

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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

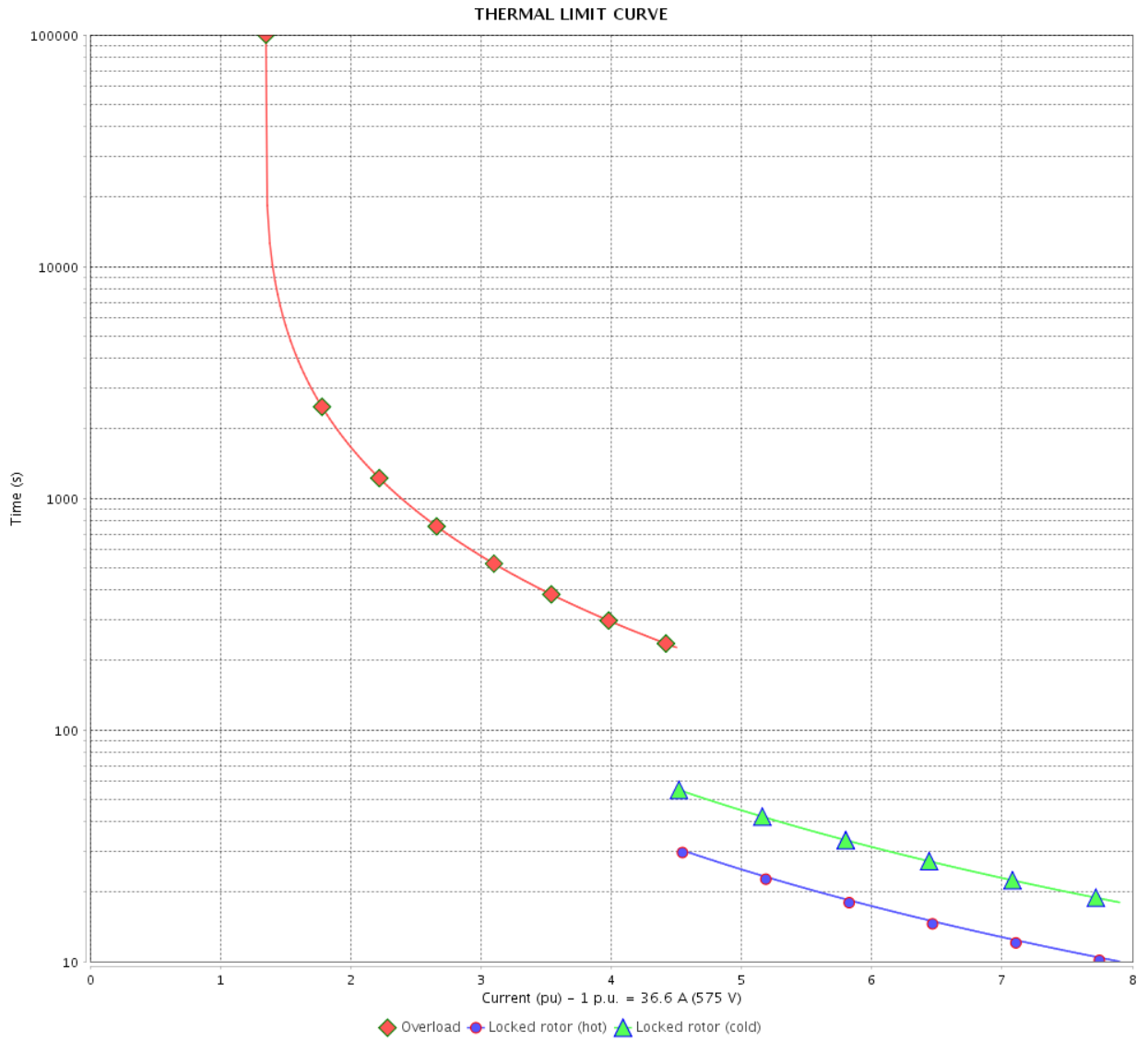
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



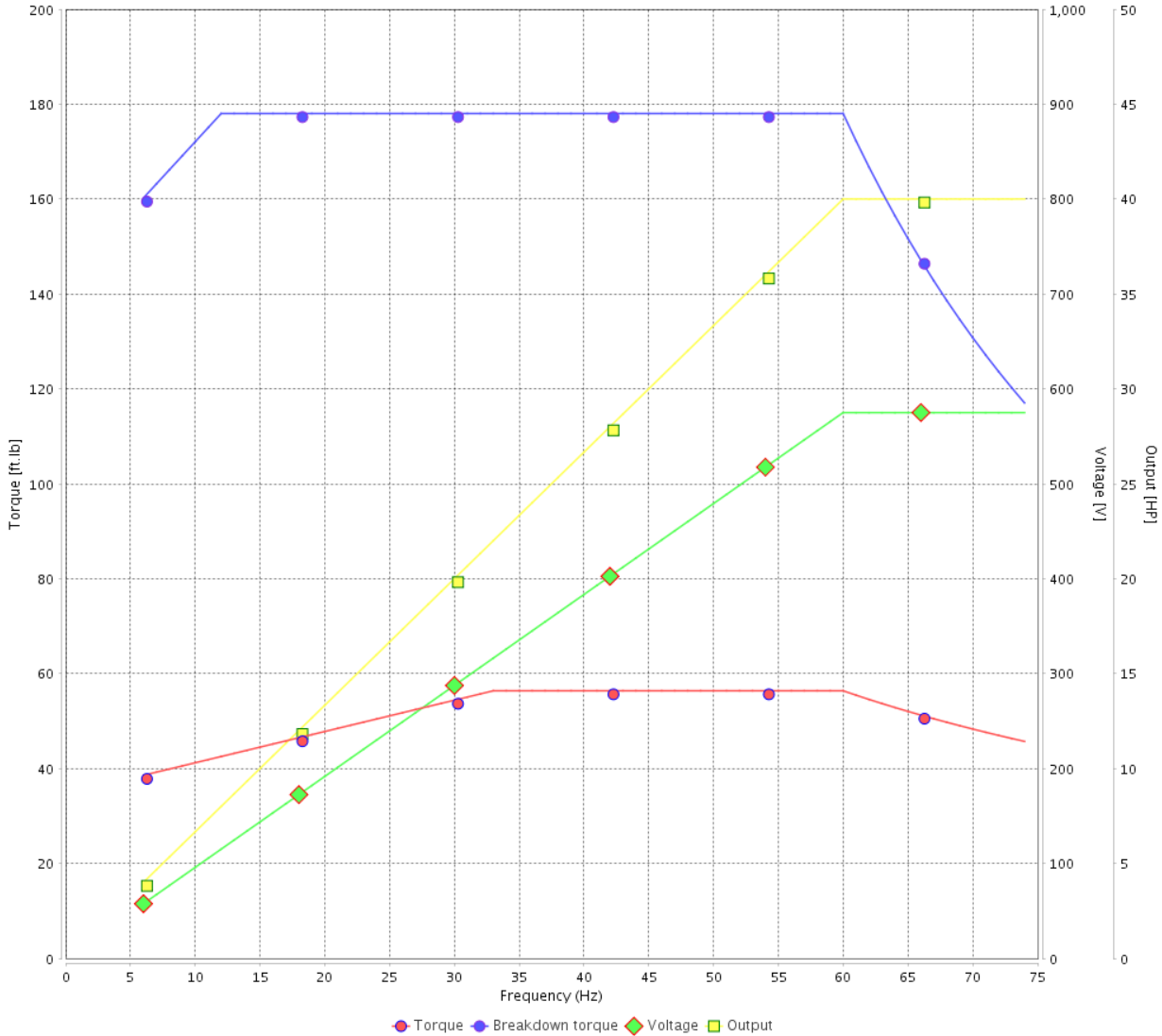
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 Service factor : 1.00
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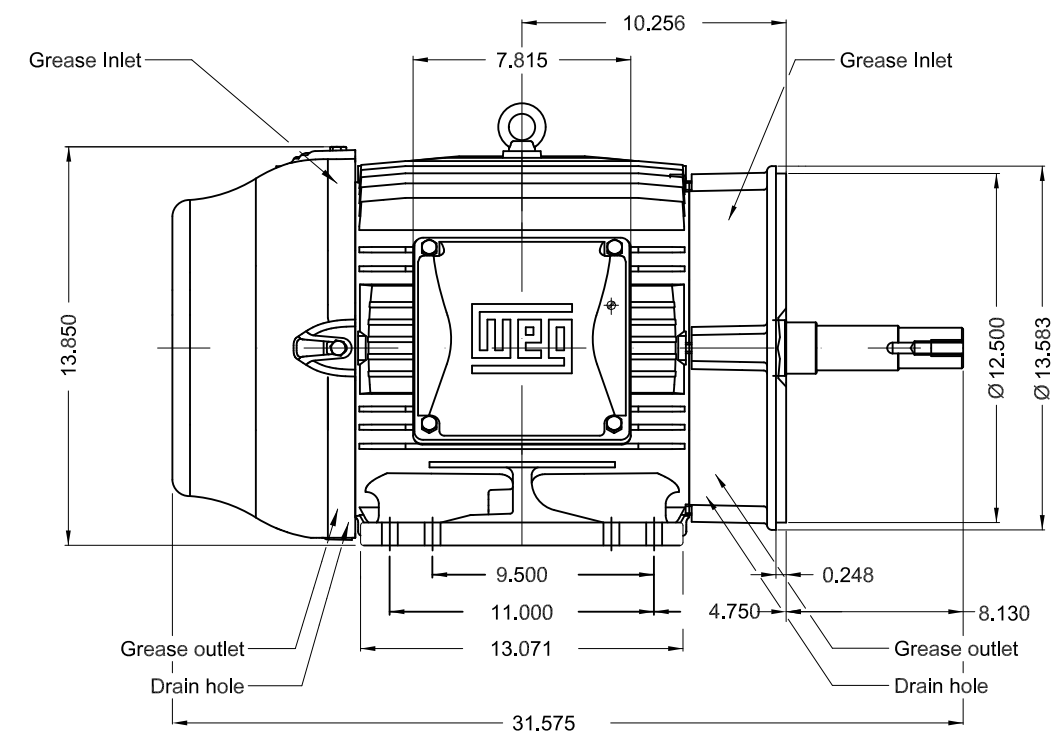
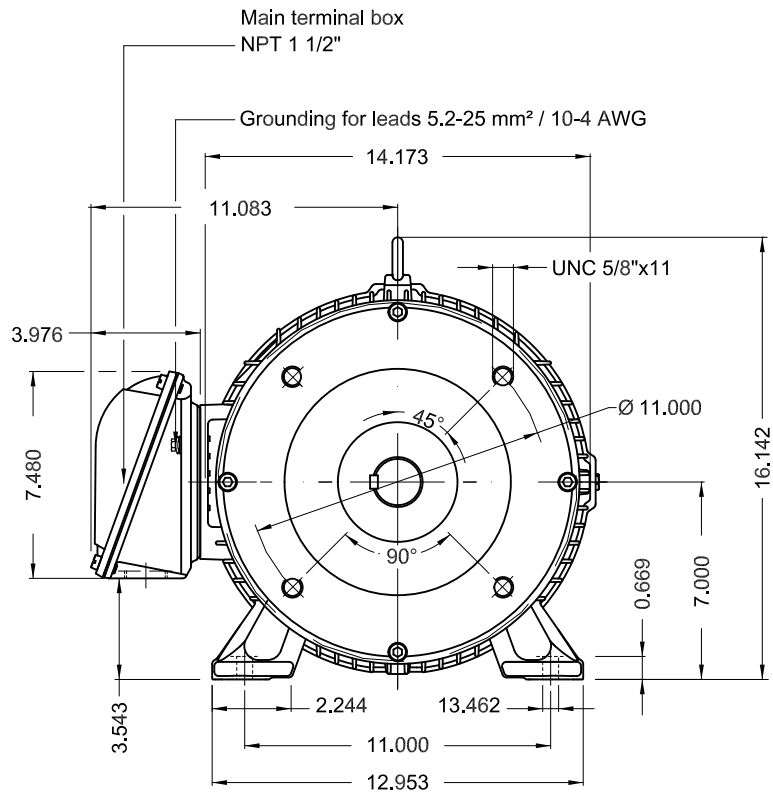
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1 2 3 4 5 6

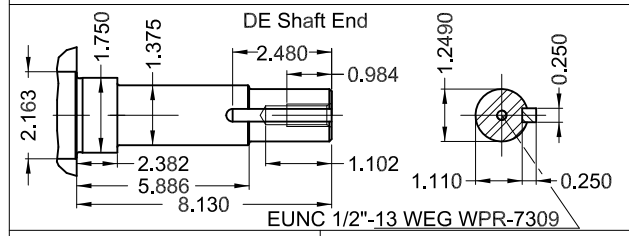
A

B

C



D



E

Design A
Color RAL 5009
Painting plan 203A
Service factor 1.0
Mounting NEMA F-1
Mounting B34R(D)

40 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.			<p>PREVIEW</p> <p>WDD</p>		SHEET	1 / 1
CHECKED			FRAME 284/6JP IP55 TEFC						
RELEASED									
REL DT.			WMO	Jaragua do Sul	Product Engineering				

Dimensions in inches

XME A3