

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: NEMA Premium Efficiency Three-Phase		Product code : 12712287	
				Catalog # : 06018ET3H364JP-W22	
Frame	: 364/5JP		Locked rotor time	: 27s (cold) 15s (hot)	
Output	: 60 HP (45 kW)		Temperature rise	: 80 K	
Poles	: 4		Duty cycle	: Cont.(S1)	
Frequency	: 60 Hz		Ambient temperature	: -20°C to +40°C	
Rated voltage	: 575 V		Altitude	: 1000 m.a.s.l.	
Rated current	: 57.3 A		Protection degree	: IP55	
L. R. Amperes	: 355 A		Cooling method	: IC411 - TEFC	
LRC	: 6.2x(Code G)		Mounting	: F-1	
No load current	: 20.8 A		Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1780 rpm		Noise level ²	: 67.0 dB(A)	
Slip	: 1.11 %		Starting method	: Direct On Line	
Rated torque	: 177 ft.lb		Approx. weight ³	: 903 lb	
Locked rotor torque	: 220 %				
Breakdown torque	: 240 %				
Insulation class	: F				
Service factor	: 1.25				
Moment of inertia (J)	: 22.4 sq.ft.lb				
Design	: B				
Output	25%	50%	75%	100%	
Efficiency (%)	93.5	94.1	94.5	95.0	
Power Factor	0.46	0.71	0.80	0.83	
Foundation loads					
Max. traction : 1002 lb					
Max. compression : 1906 lb					
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6314 C3	6314 C3		
Sealing	:	Lip Seal	Lip Seal		
Lubrication interval	:	12000 h	12000 h		
Lubricant amount	:	27 g	27 g		
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



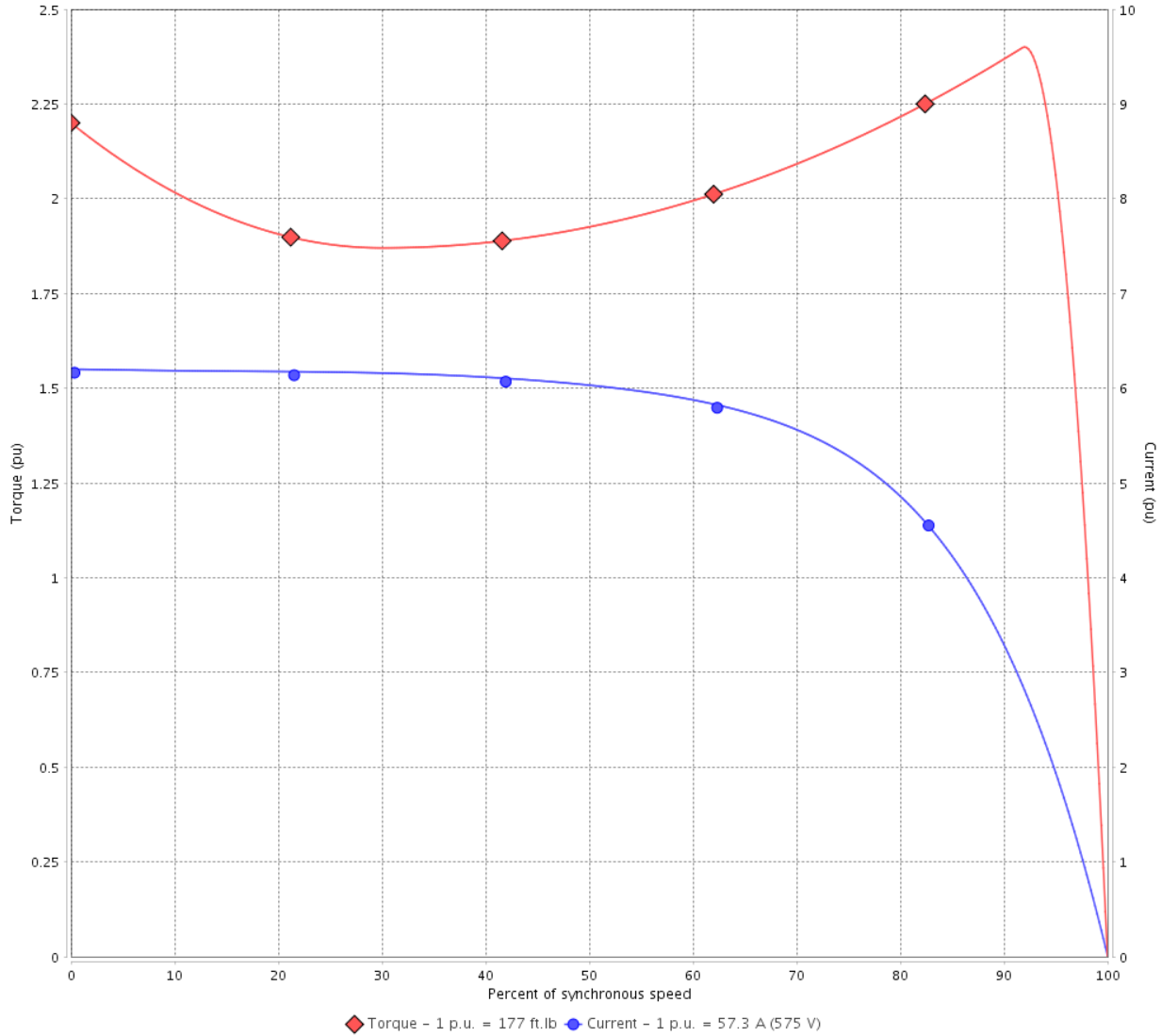
Customer :

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TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 4P

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LRC	: 6.2	Duty cycle	: Cont.(S1)
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Breakdown torque	: 240 %	Temperature rise	: 80 K
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Locked rotor time : 27s (cold) 15s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

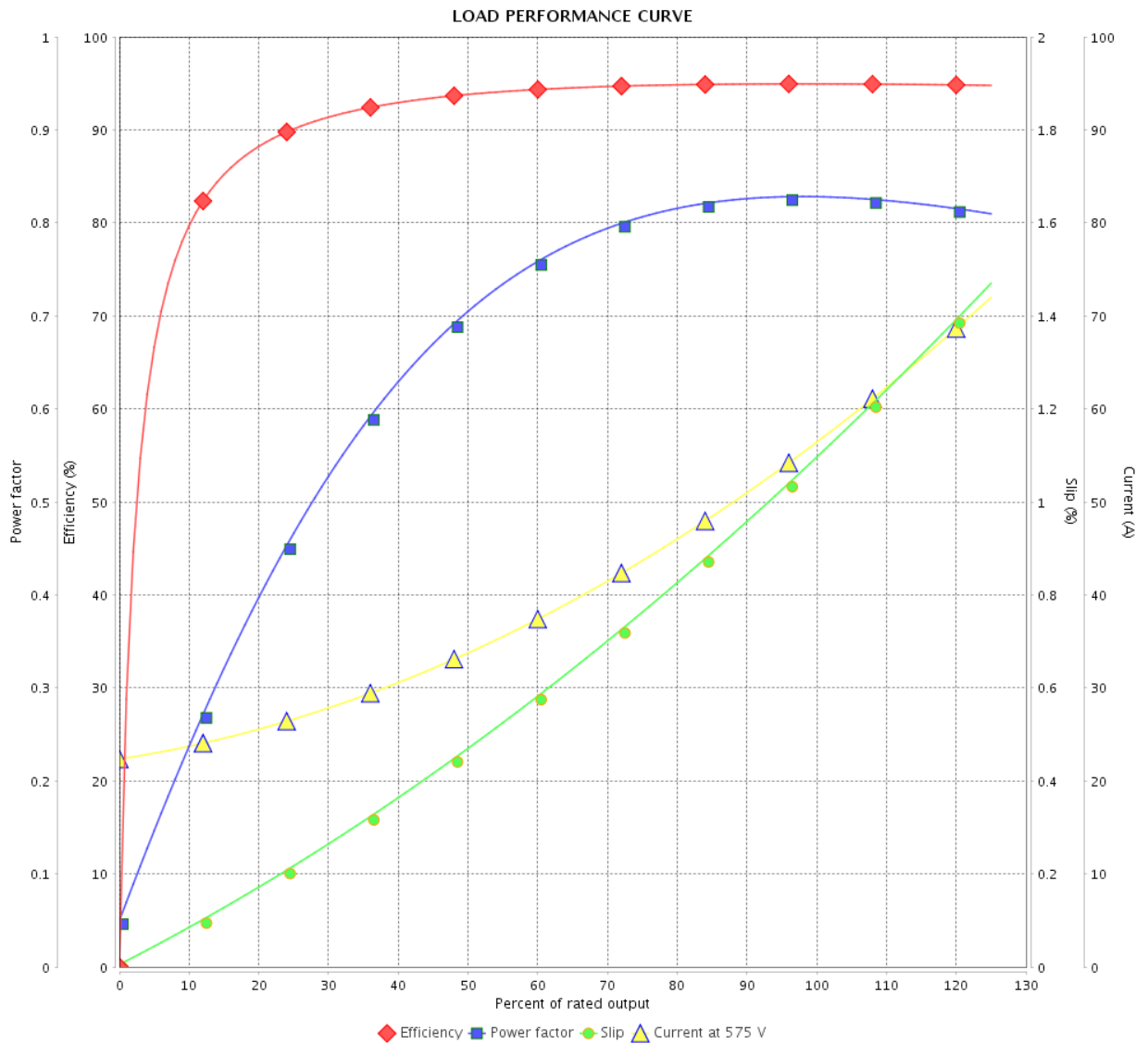


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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

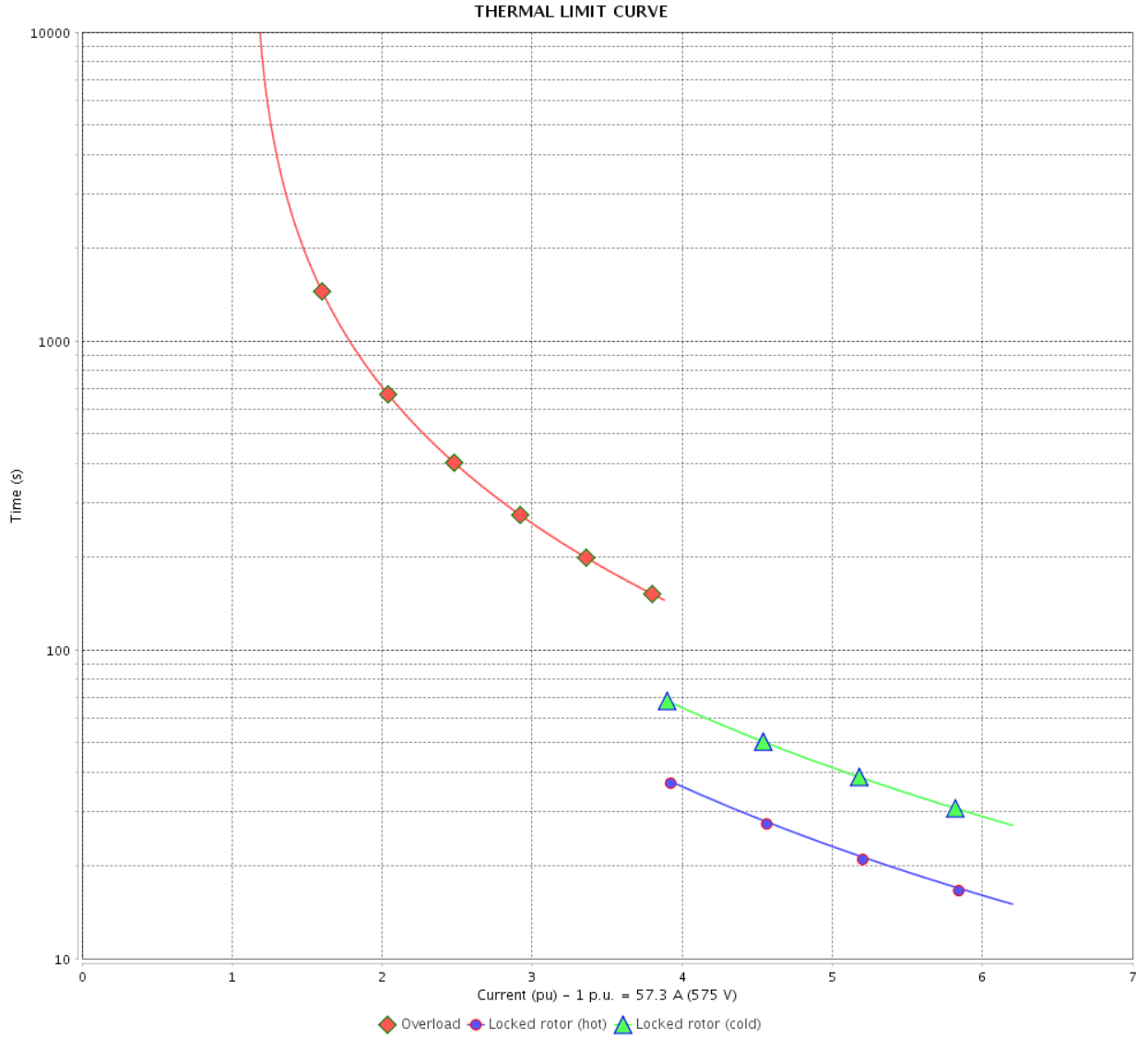
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



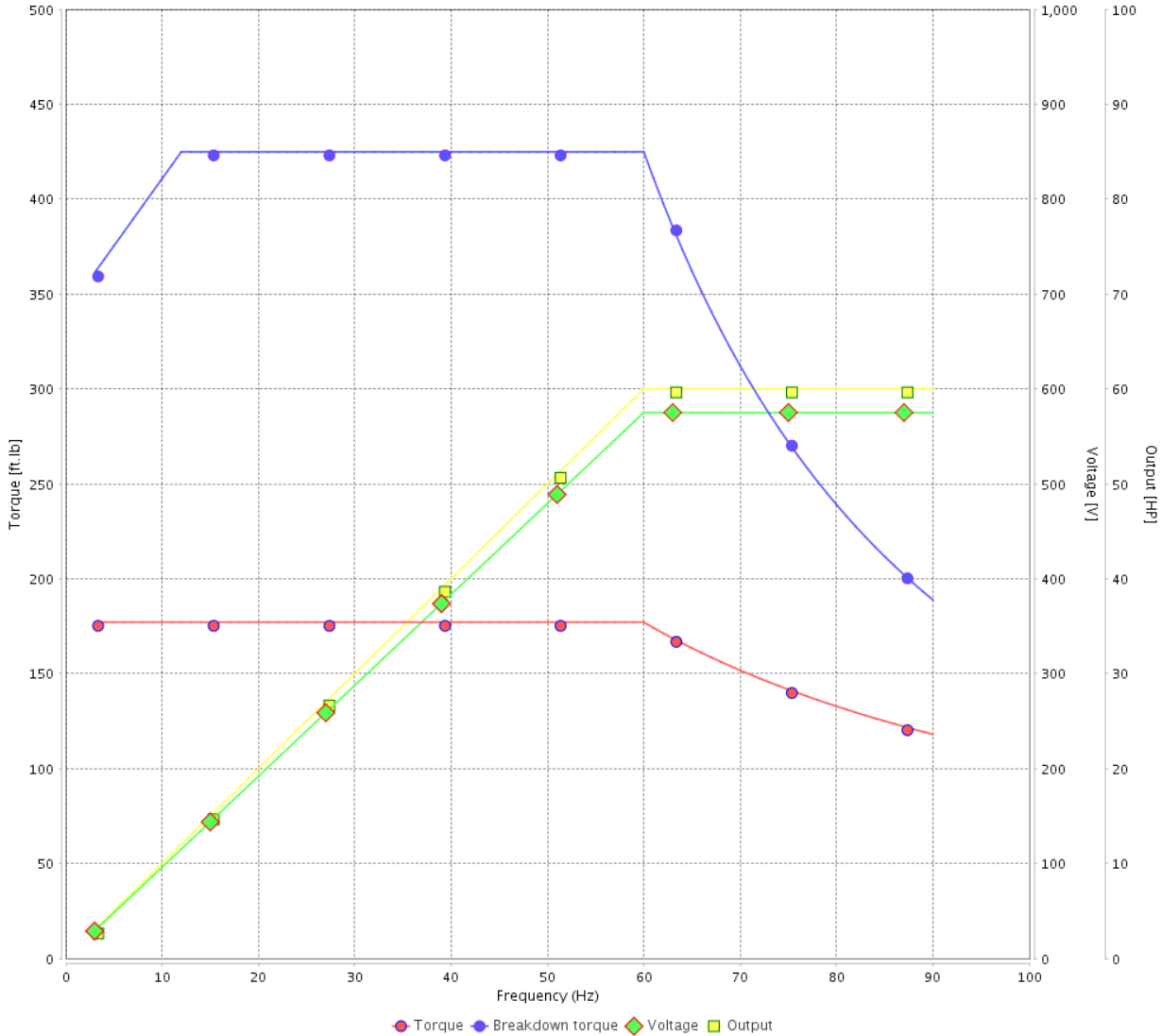
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VFD OPERATION CURVE



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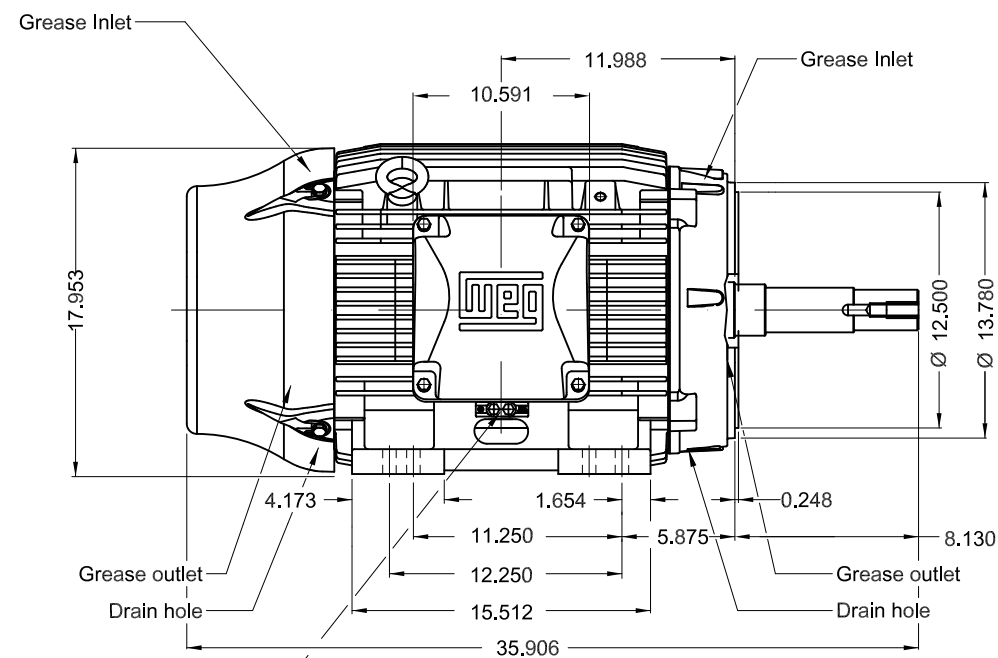
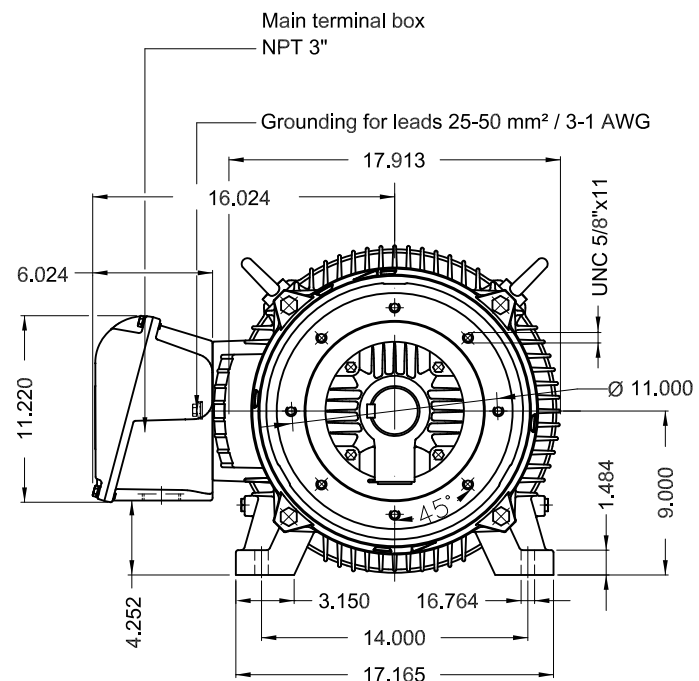
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1 2 3 4 5 6

A

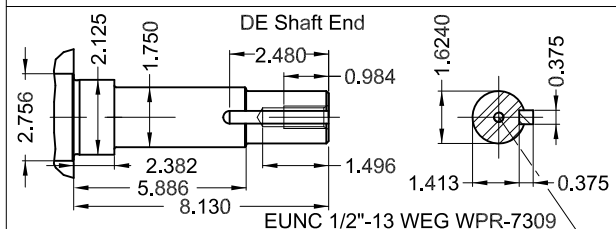
B

C



Grounding for leads 25-185 mm² / 3AWG-350MCM

D

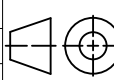


E

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

60 HP 04 Poles 60 Hz

A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWUSER	 THREE PH. MOTOR JM/JP/JET PUMP W22 PREM. EFF. FRAME 364/5JP IP55 TEFC					
CHECKED							
RELEASED							
REL DT.	WMO		Jaragua do Sul	Product Engineering	SHEET	1 / 1	

PREVIEW
 WDD



Dimensions in inches

XME A3