

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :													
Product line : NEMA Premium Efficiency Three-Phase	Product code : 12793362 Catalog # : 01518ET3H254T-SG												
Frame : 254/6T Output : 15 HP (11 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 575 V Rated current : 14.6 A L. R. Amperes : 94.6 A LRC : 6.5x(Code G) No load current : 6.92 A Rated speed : 1770 rpm Slip : 1.67 % Rated torque : 44.5 ft.lb Locked rotor torque : 250 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 2.15 sq.ft.lb Design : B	Locked rotor time : 34s (cold) 19s (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 : 212 lb												
Output 25% 50% 75% 100% Efficiency (%) 90.8 91.0 92.4 92.4 Power Factor 0.39 0.64 0.76 0.82	Foundation loads Max. traction : 534 lb Max. compression : 746 lb												
Bearing type : Sealing : Lubrication interval : Lubricant amount : Lubricant type :	<table style="width:100%; border:none;"> <tr> <td style="text-align:center;"><u>Drive end</u></td> <td style="text-align:center;"><u>Non drive end</u></td> </tr> <tr> <td style="text-align:center;">6309 Z C3</td> <td style="text-align:center;">6208 Z C3</td> </tr> <tr> <td style="text-align:center;">V'Ring</td> <td style="text-align:center;">Without Bearing Seal</td> </tr> <tr> <td style="text-align:center;">20000 h</td> <td style="text-align:center;">20000 h</td> </tr> <tr> <td style="text-align:center;">13 g</td> <td style="text-align:center;">8 g</td> </tr> <tr> <td colspan="2" style="text-align:center;">Mobil Polyrex EM</td> </tr> </table>	<u>Drive end</u>	<u>Non drive end</u>	6309 Z C3	6208 Z C3	V'Ring	Without Bearing Seal	20000 h	20000 h	13 g	8 g	Mobil Polyrex EM	
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V'Ring	Without Bearing Seal												
20000 h	20000 h												
13 g	8 g												
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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Performed by													
Checked by			Page	Revision									
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



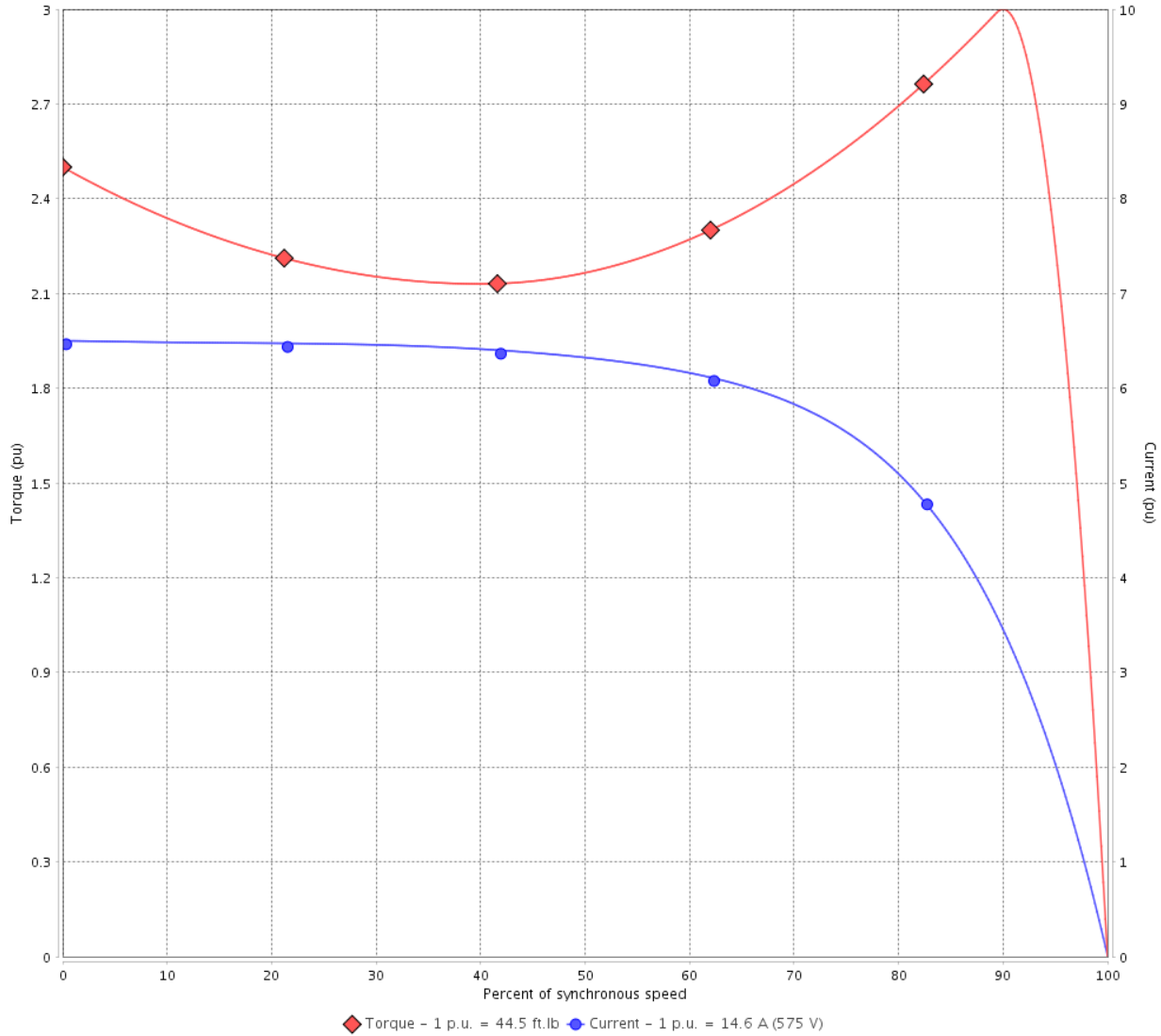
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12793362

Catalog # : 01518ET3H254T-SG

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 4P

Rated current	: 14.6 A	Moment of inertia (J)	: 2.15 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 44.5 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

Locked rotor time : 34s (cold) 19s (hot)

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Date	13/04/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

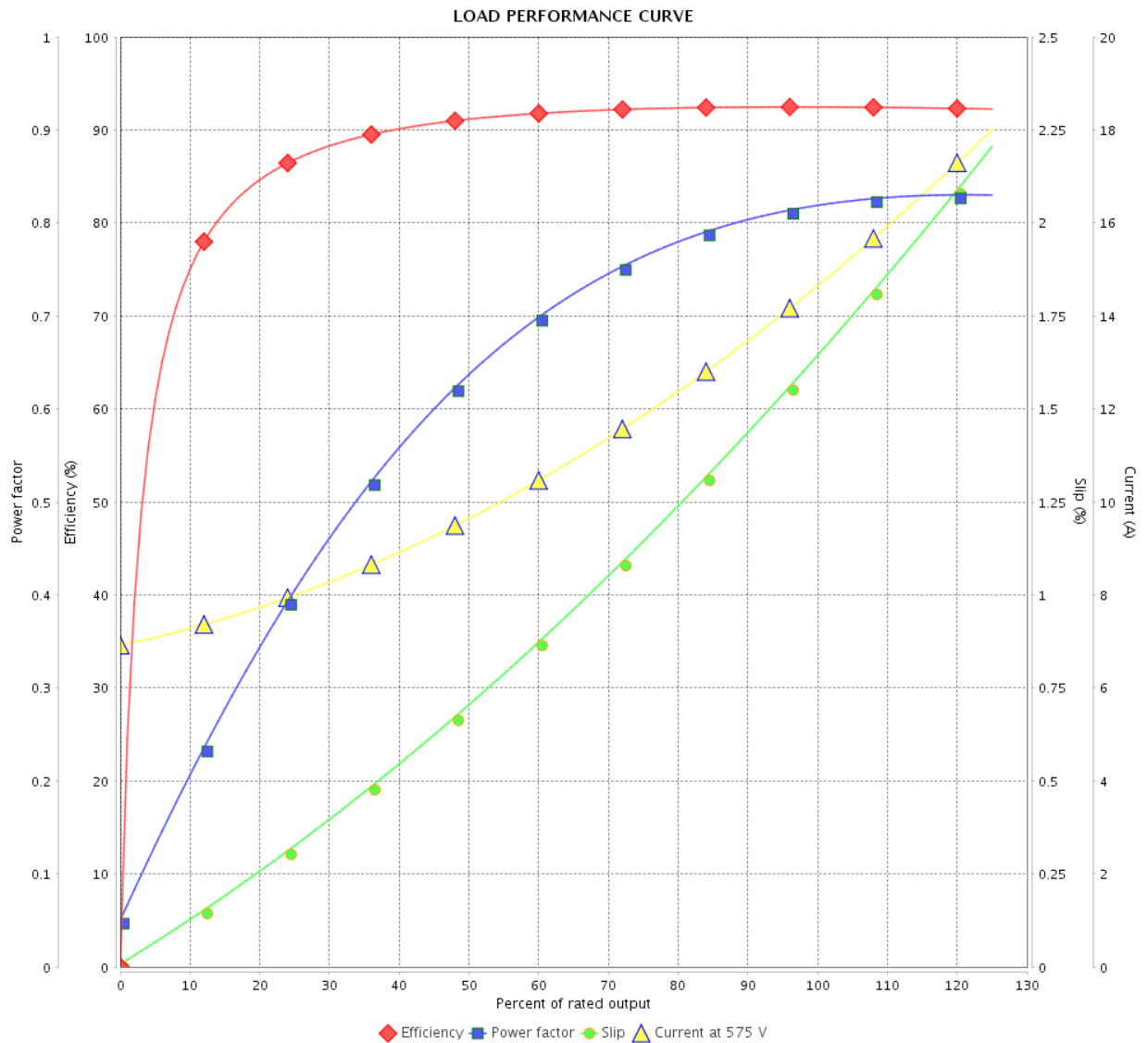


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THERMAL LIMIT CURVE

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Heating constant

Cooling constant

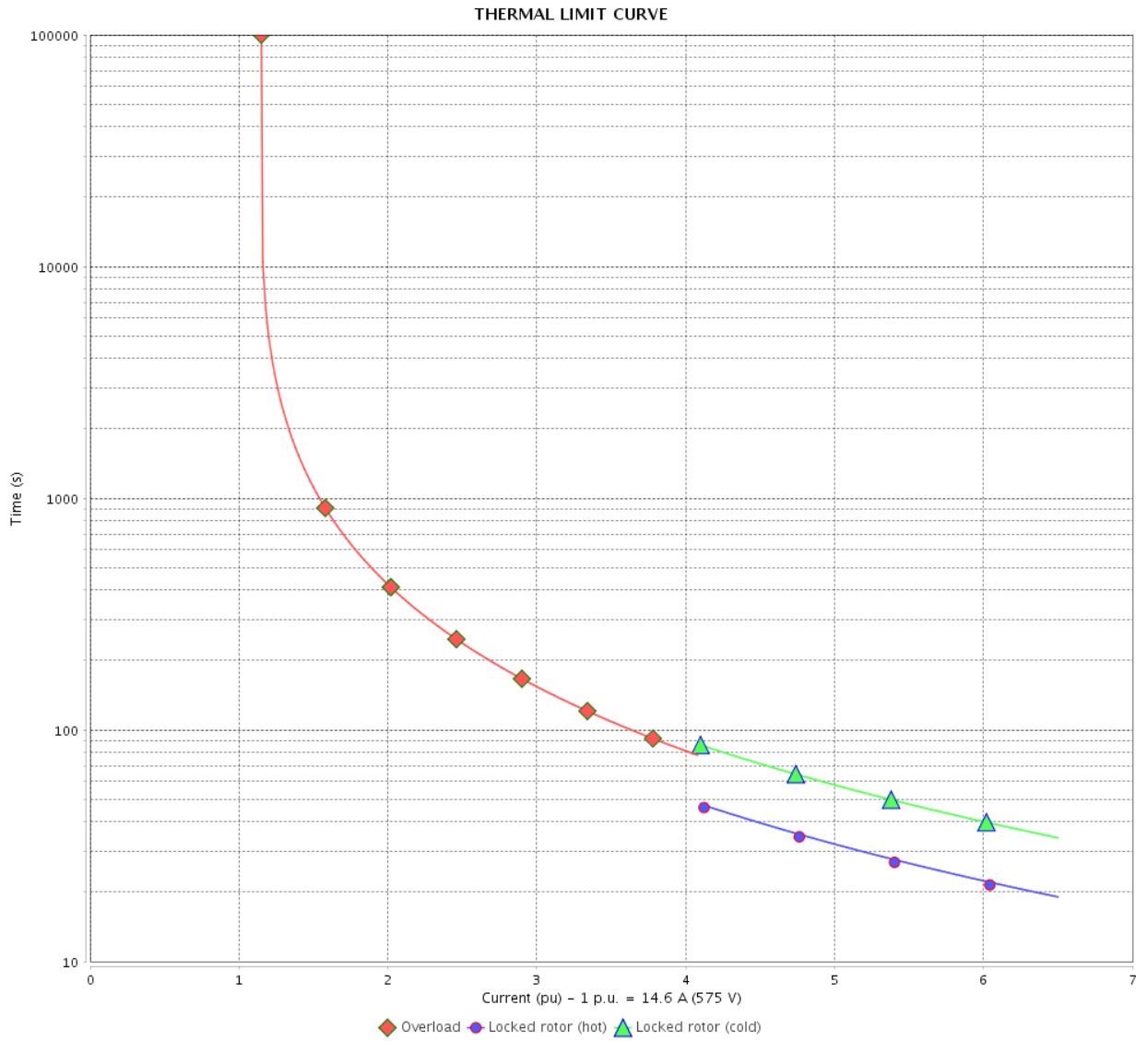
Rev.	Changes Summary	Performed	Checked	Date
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



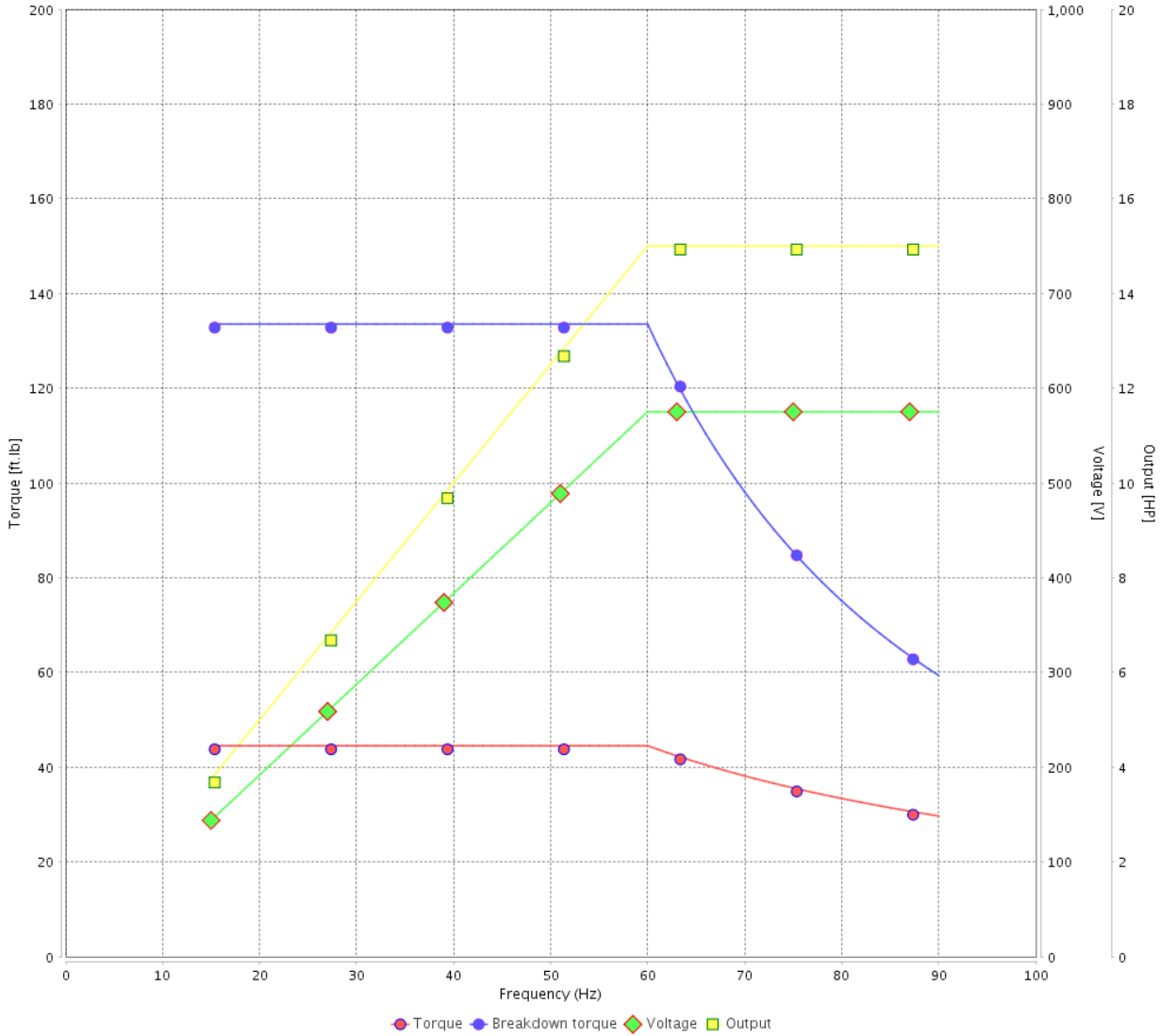
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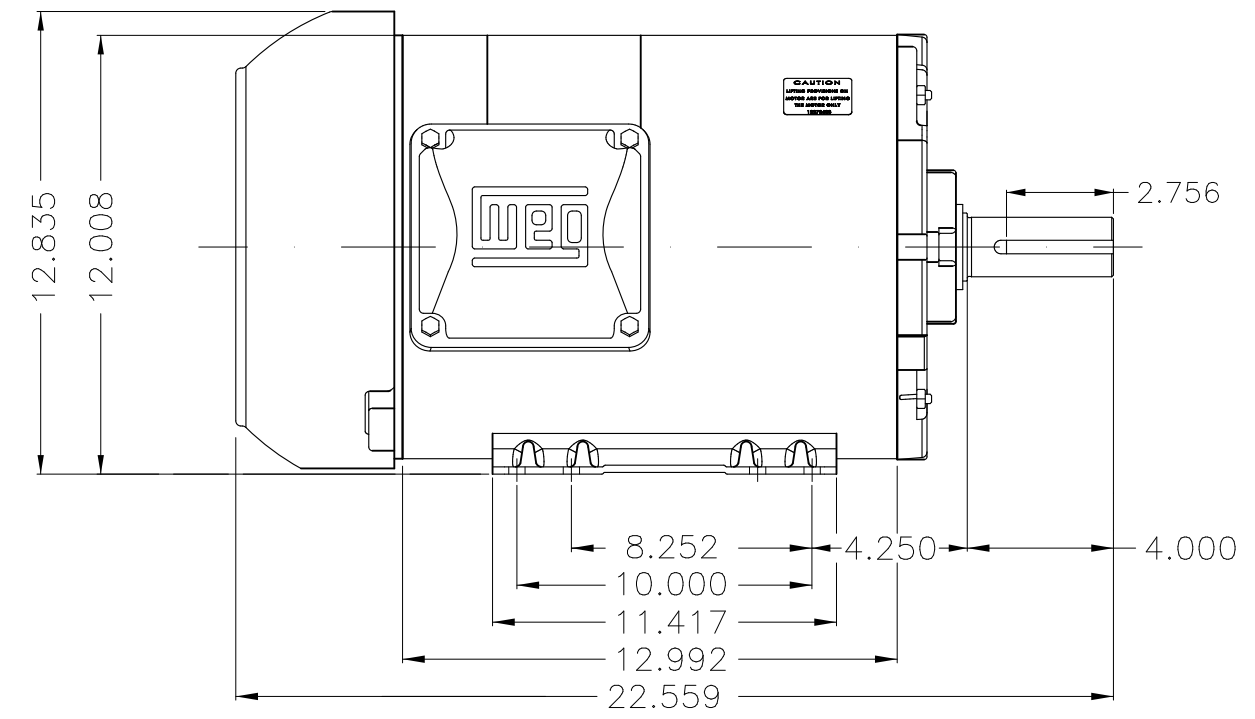
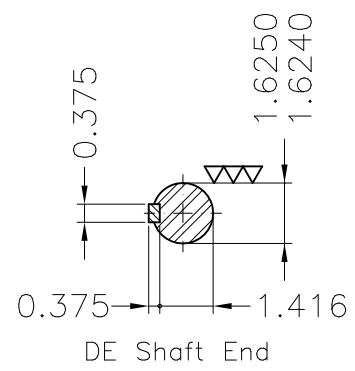
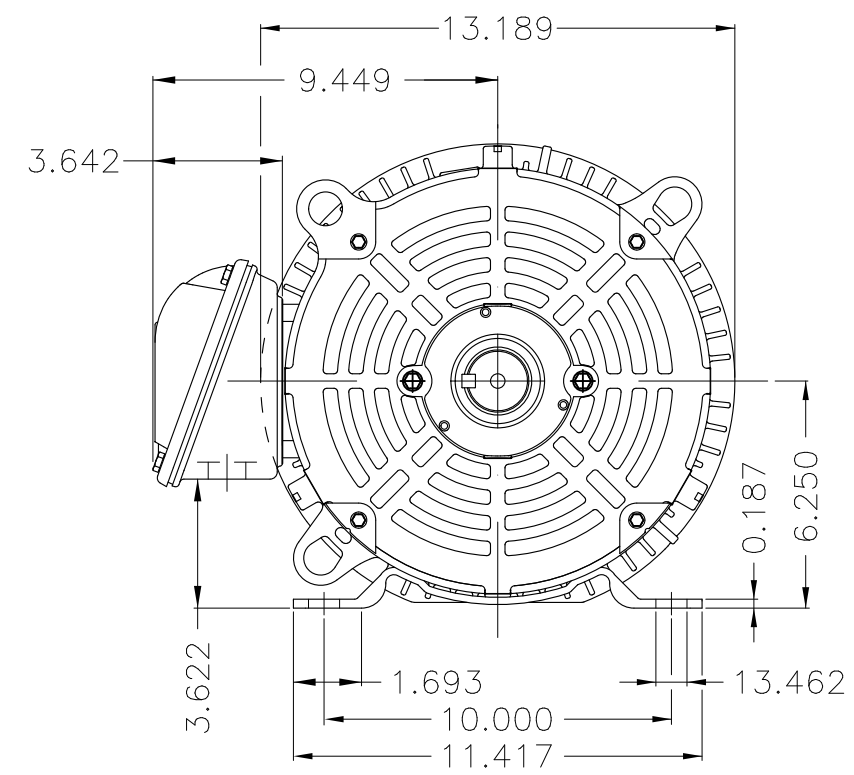
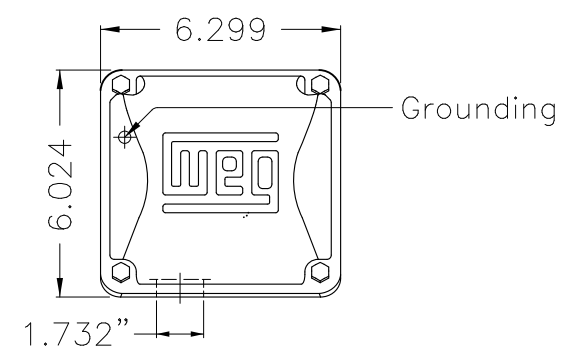
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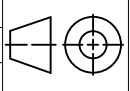
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1 2 3 4 5 6

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	PIRWBUSER	 THREE PH. MOTOR ROLLED STEEL PREM. EFF. FRAME 254/6T IP55 TEFC					
CHECKED							
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1		

15 HP 04 Poles 60 Hz

PREVIEW
WDD



**NEMA**
Premium

MADE IN MEXICO

MAT: 12793362 CC029A

W01.TE0IC0X0N

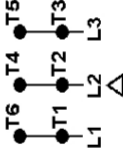
HT015504NPW01GR

03MAR2022 S/N:

PH 3	Hz 60	HP 15
FR 254/6T		KW 11
DUTY CONT.		V 575
ALT 1000 m.a.s.l		A 14.6
INS CL F AT 80K	IP55	SFA 16.8
AMB 40°C	DES B	SF 1.15
ENCL TEFC	CODE H	PF 0.82
		RPM 1770
		NEMA NOM. EFF 92.4%

Inverter duty motor For use on VPWM 1000:1 VT, 4:1 CT

DE 6309-Z-C3	ODE 6208-Z-C3	MOBIL POLYREX EM	20000h
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T1-BLU
T2-WHT
T3-ORG
T4-YEL
T5-BLK
T6-GRY

INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

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.

