

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :																			
Product line : JM Pump NEMA Premium Efficiency Three-Phase	Product code : 12676950																		
	Catalog # : 00536OT3H182JM-S																		
Frame : 182/4JM Output : 5 HP (3.7 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 575 V Rated current : 4.88 A L. R. Amperes : 37.1 A LRC : 7.6x(Code J) No load current : 2.06 A Rated speed : 3510 rpm Slip : 2.50 % Rated torque : 7.48 ft.lb Locked rotor torque : 190 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1386 sq.ft.lb Design : B	Locked rotor time : 21s (cold) 12s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Cooling method : IC01 - ODP Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 65.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 62.9 lb																		
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Output</td> <td>25%</td> <td>50%</td> <td>75%</td> <td>100%</td> </tr> <tr> <td>Efficiency (%)</td> <td>85.2</td> <td>85.5</td> <td>86.5</td> <td>86.5</td> </tr> <tr> <td>Power Factor</td> <td>0.45</td> <td>0.73</td> <td>0.83</td> <td>0.88</td> </tr> </table>	Output	25%	50%	75%	100%	Efficiency (%)	85.2	85.5	86.5	86.5	Power Factor	0.45	0.73	0.83	0.88	Foundation loads Max. traction : 112 lb Max. compression : 175 lb			
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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



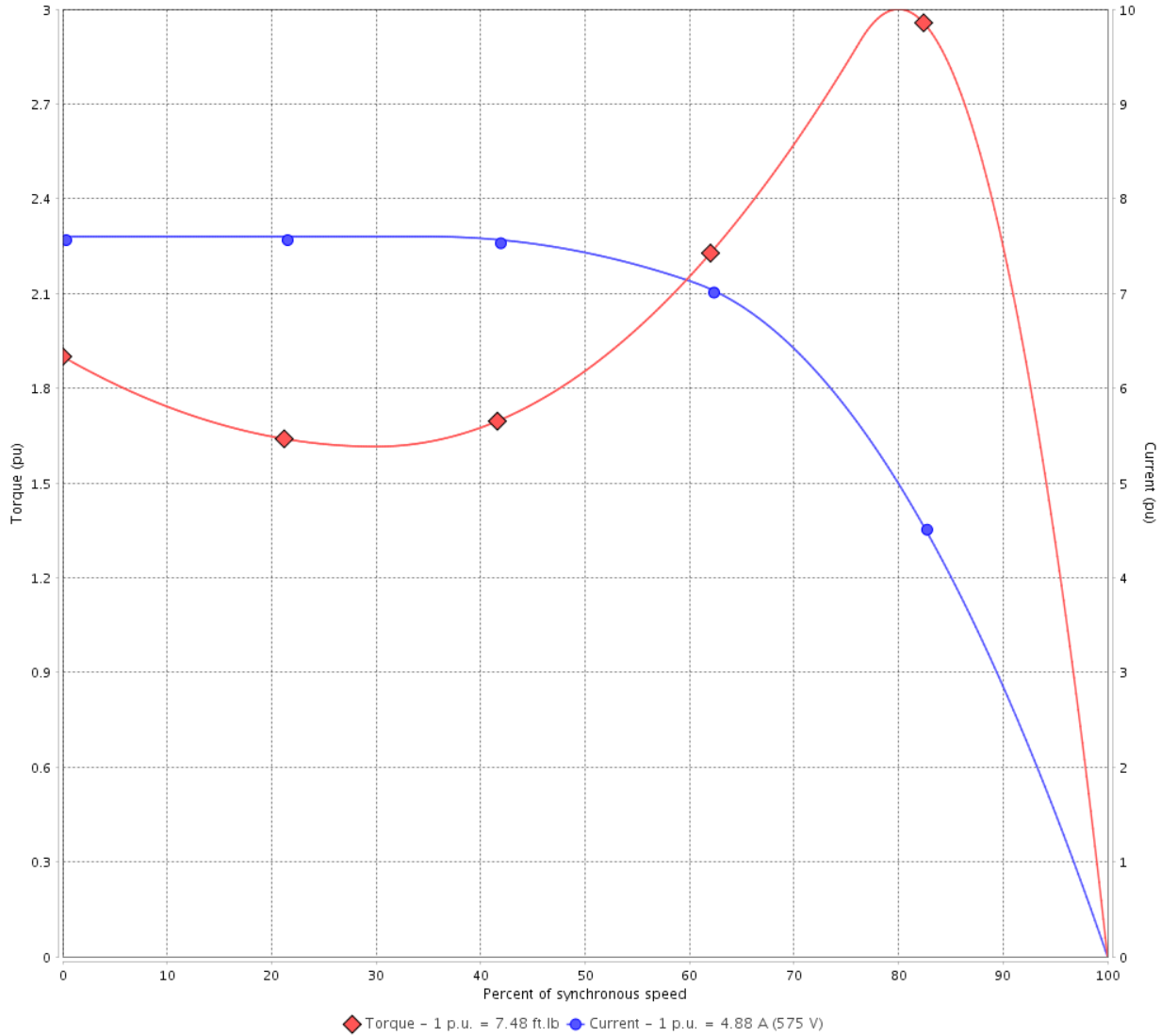
Customer :

Product line : JM Pump NEMA Premium Efficiency Three-Phase

Product code : 12676950

Catalog # : 00536OT3H182JM-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 4.88 A	Moment of inertia (J)	: 0.1386 sq.ft.lb
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 7.48 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: B

Locked rotor time : 21s (cold) 12s (hot)

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Date	13/04/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

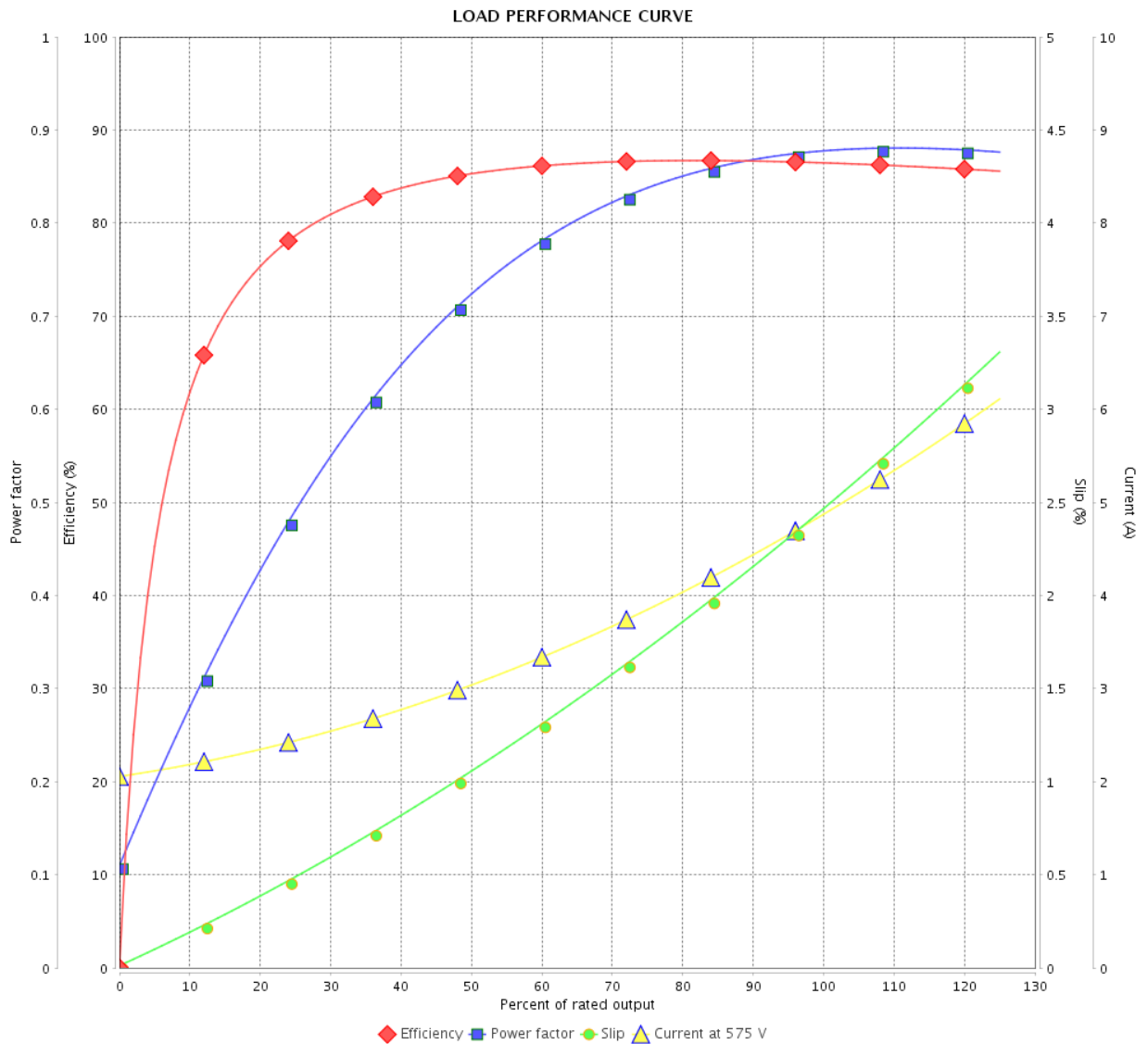


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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

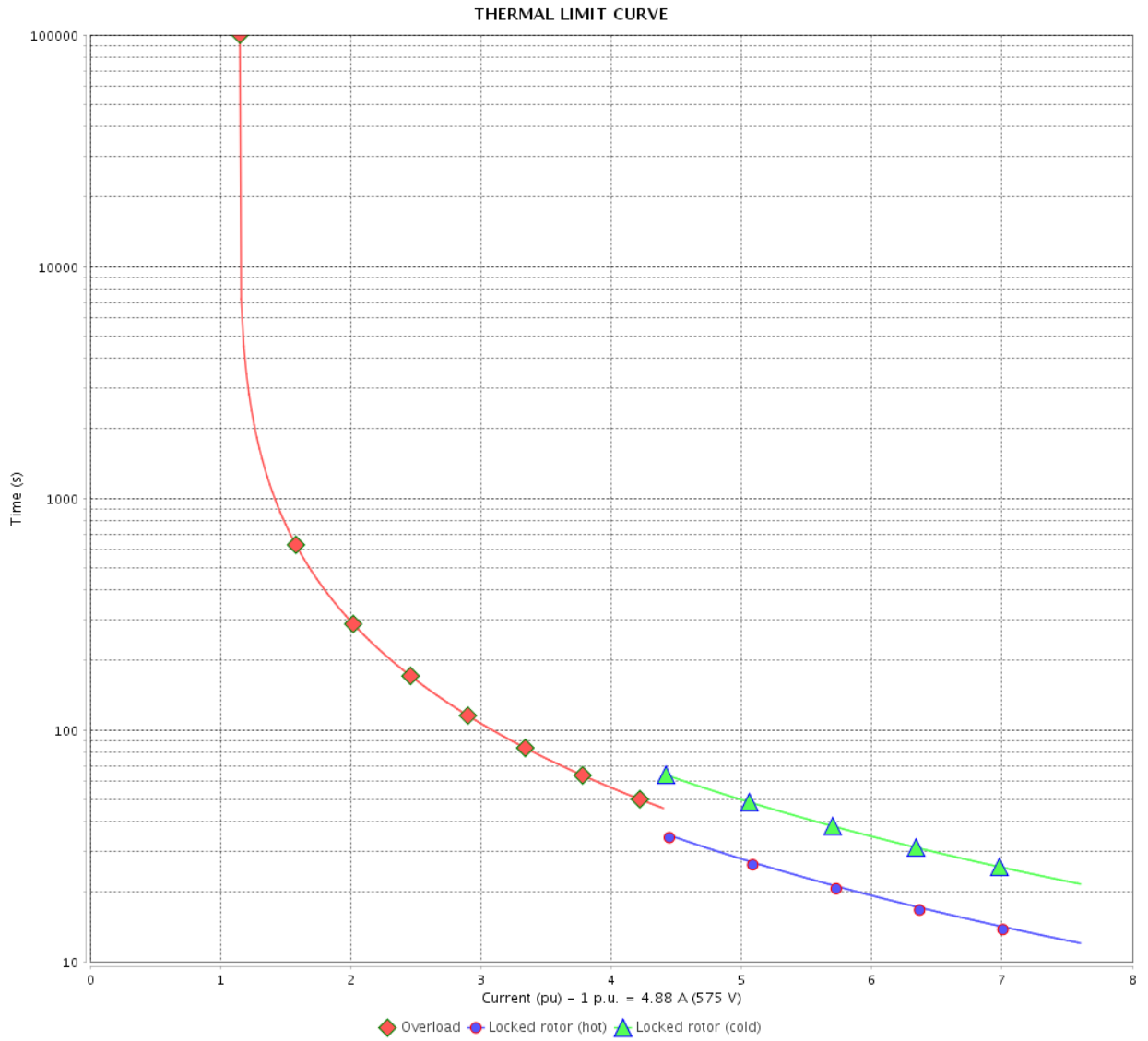
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



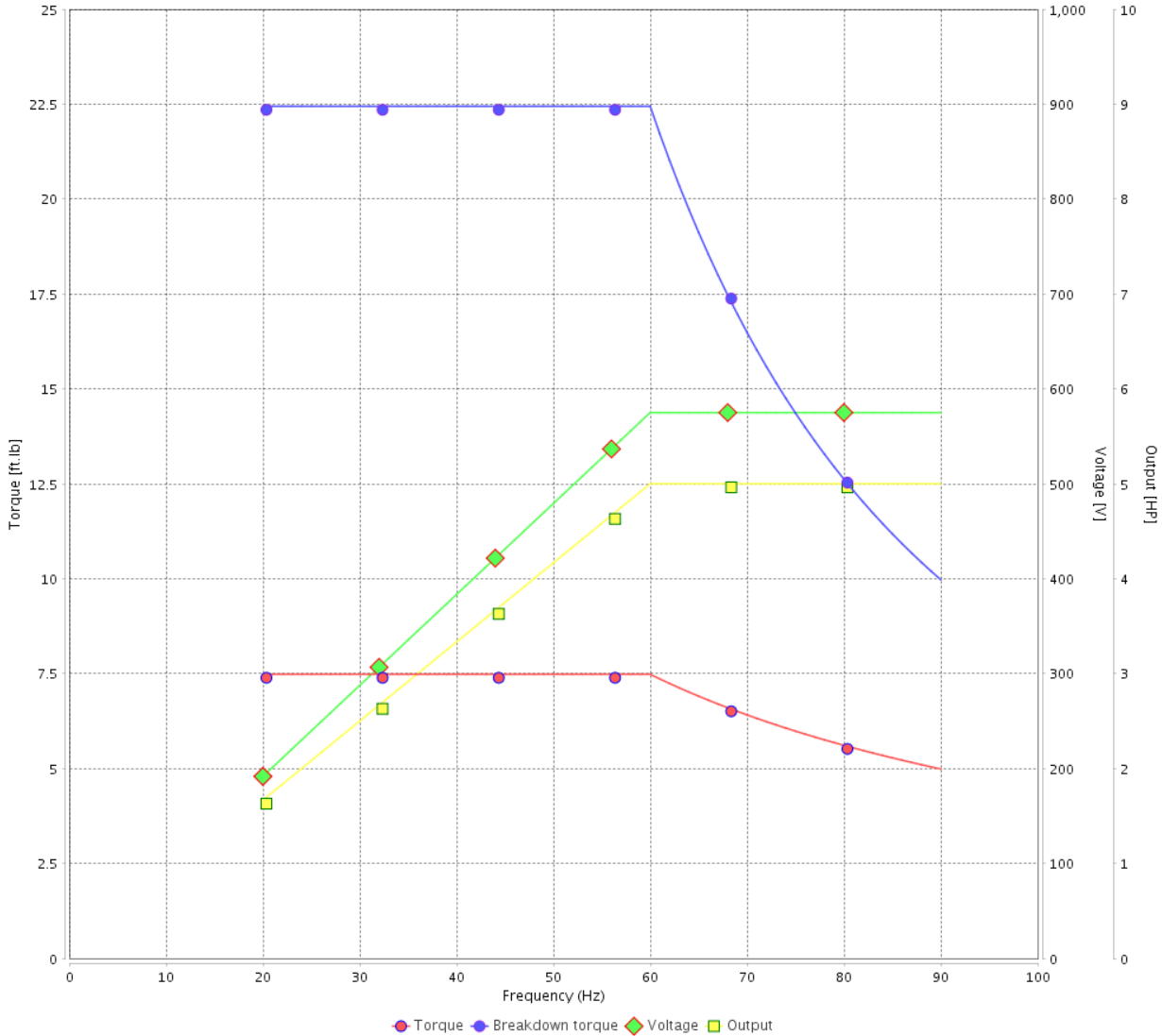
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1 2 3 4 5 6

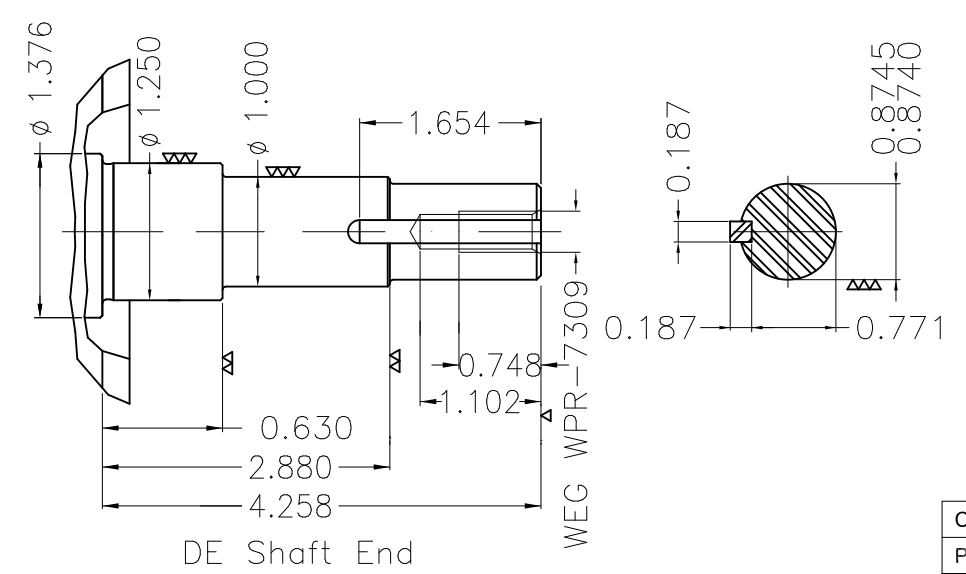
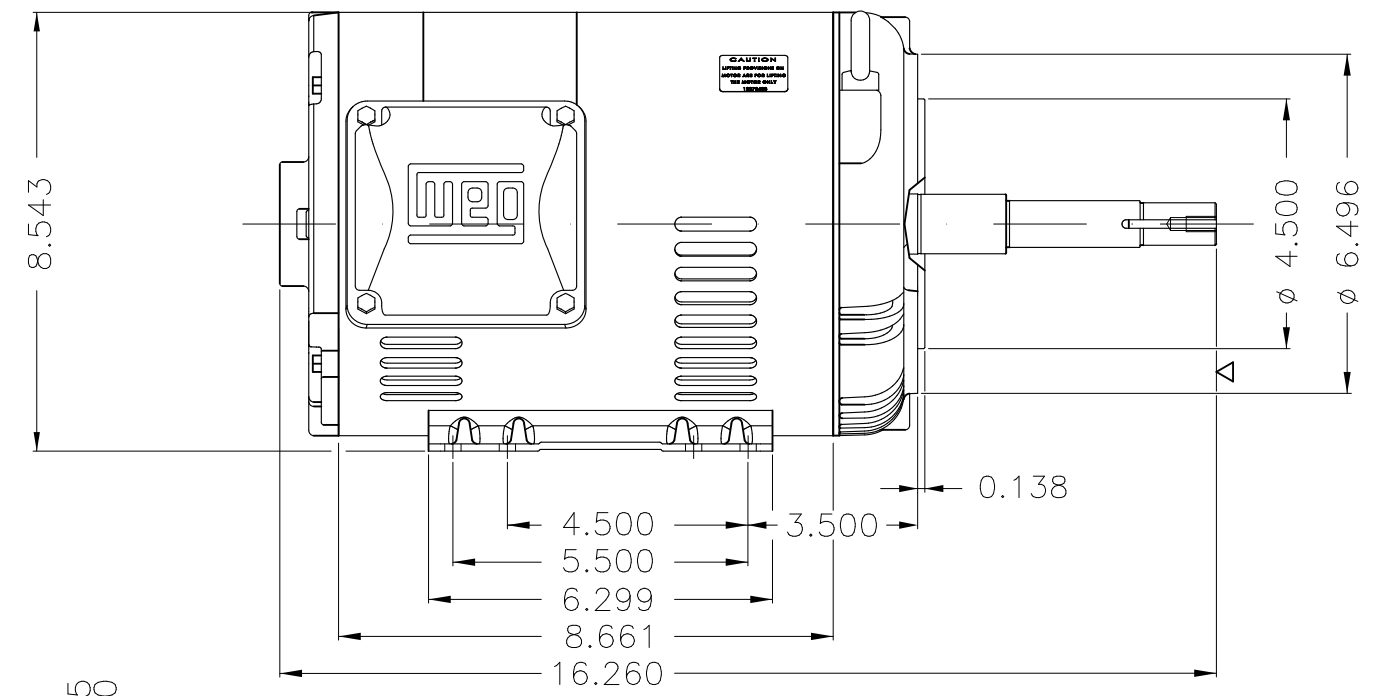
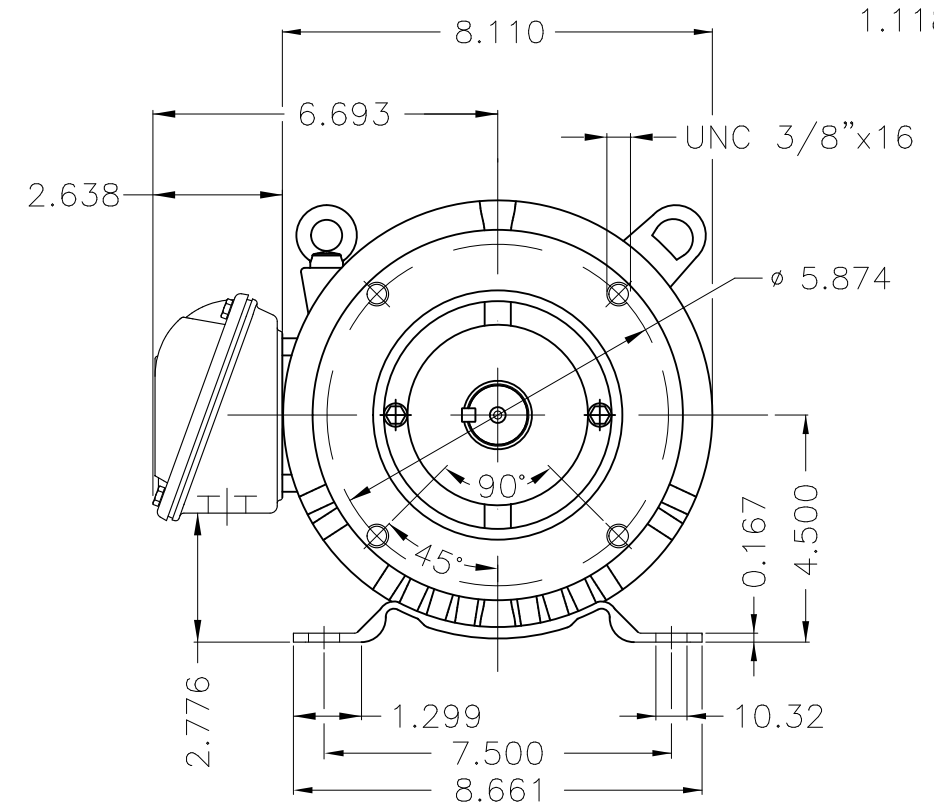
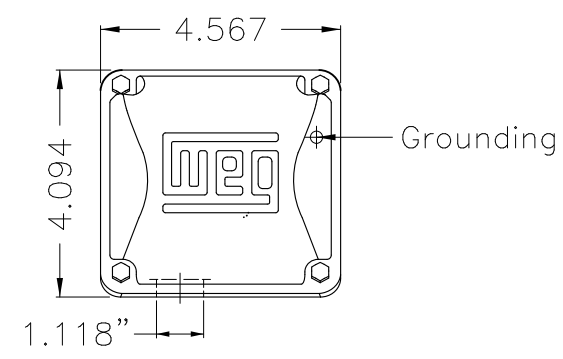
A

B

C

D

E



EUNC 3/8"-16 WEG WPR-7309

DE Shaft End

Color Munsell N 1 matte black
 Painting plan 207N
 Mounting F-1/B34R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR ROLLED STEEL CLOSE COUPLED PUMP JN TYPE PSEF 107					
CHECKED		FRAME 182/4JM IP21 ODP					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	WDD	SHEET	1 / 1	

5 HP 02 Poles 60 Hz





NEMA
Premium



3PT9



Energy Verified

MADE IN MEXICO

MAT: 12676950 CC029A

W01.T00IC0X0N

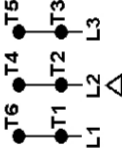
JM005502DPNPW01

10JAN2022 S/N:

PH 3	Hz 60	HP 5.0
FR 182/4JM		KW 3.7
DUTY CONT.		V 575
ALT 1000 m.a.s.l		A 4.88
INS CL F AT 80K		SFA 5.61
AMB 40°C	DES B	SF 1.15
ENCL ODP	CODE J	PF 0.88
		RPM 3510
		NEMA NOM. EFF 86.5%

Inverter duty motor For use on VPWM 1000:1 VT, 3:1 CT

DE 6207-ZZ ODE 6205-ZZ MOBIL POLYREX EM



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.

