

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : JM Pump NEMA Premium Efficiency Three-Phase

Product code : 12922411

Catalog # : 00518OT3H184JM-SG

Frame : 182/4JM
Output : 5 HP (3.7 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 5.06 A
L. R. Amperes : 36.5 A
LRC : 7.2x(Code J)
No load current : 2.52 A
Rated speed : 1760 rpm
Slip : 2.22 %
Rated torque : 14.9 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 310 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.4003 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
Rotation¹ : Both (CW and CCW)
Noise level² : 55.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 88.9 lb

Output	25%	50%	75%	100%
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Efficiency (%)	87.5	88.5	88.5	89.5
Power Factor	0.38	0.63	0.76	0.82

Foundation loads

Max. traction : 251 lb
Max. compression : 340 lb

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: 6207 ZZ	: 6205 ZZ
Sealing	: Without Bearing Seal	: Without Bearing Seal
Lubrication interval	: -	: -
Lubricant amount	: -	: -
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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		1 / 6		
Date	12/04/2022			

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



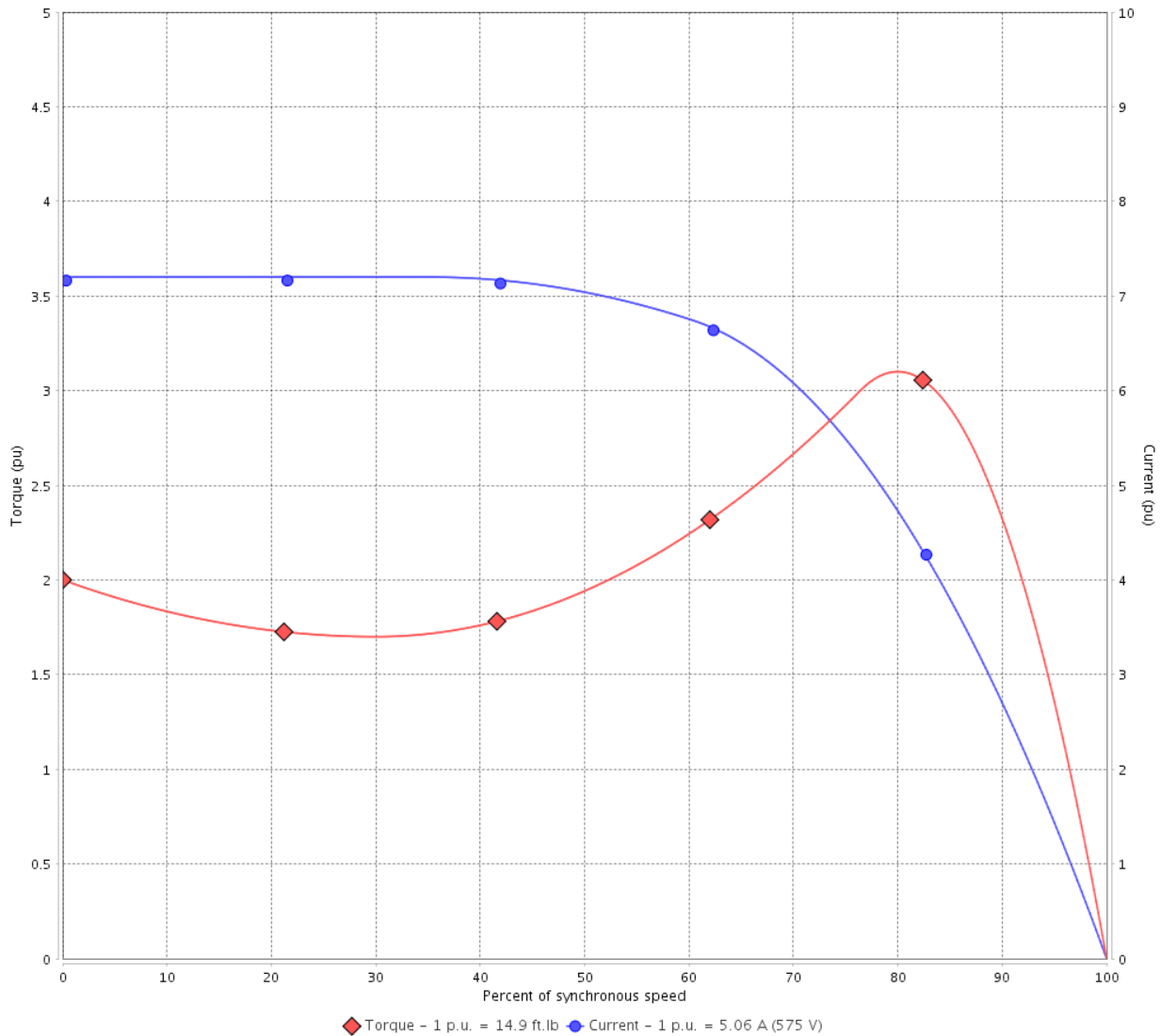
Customer :

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Efficiency Three-Phase

Product code : 12922411

Catalog # : 00518OT3H184JM-SG

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 4P

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Rated torque	: 14.9 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm	Design	: B

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 6	Revision
Checked by				
Date	12/04/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

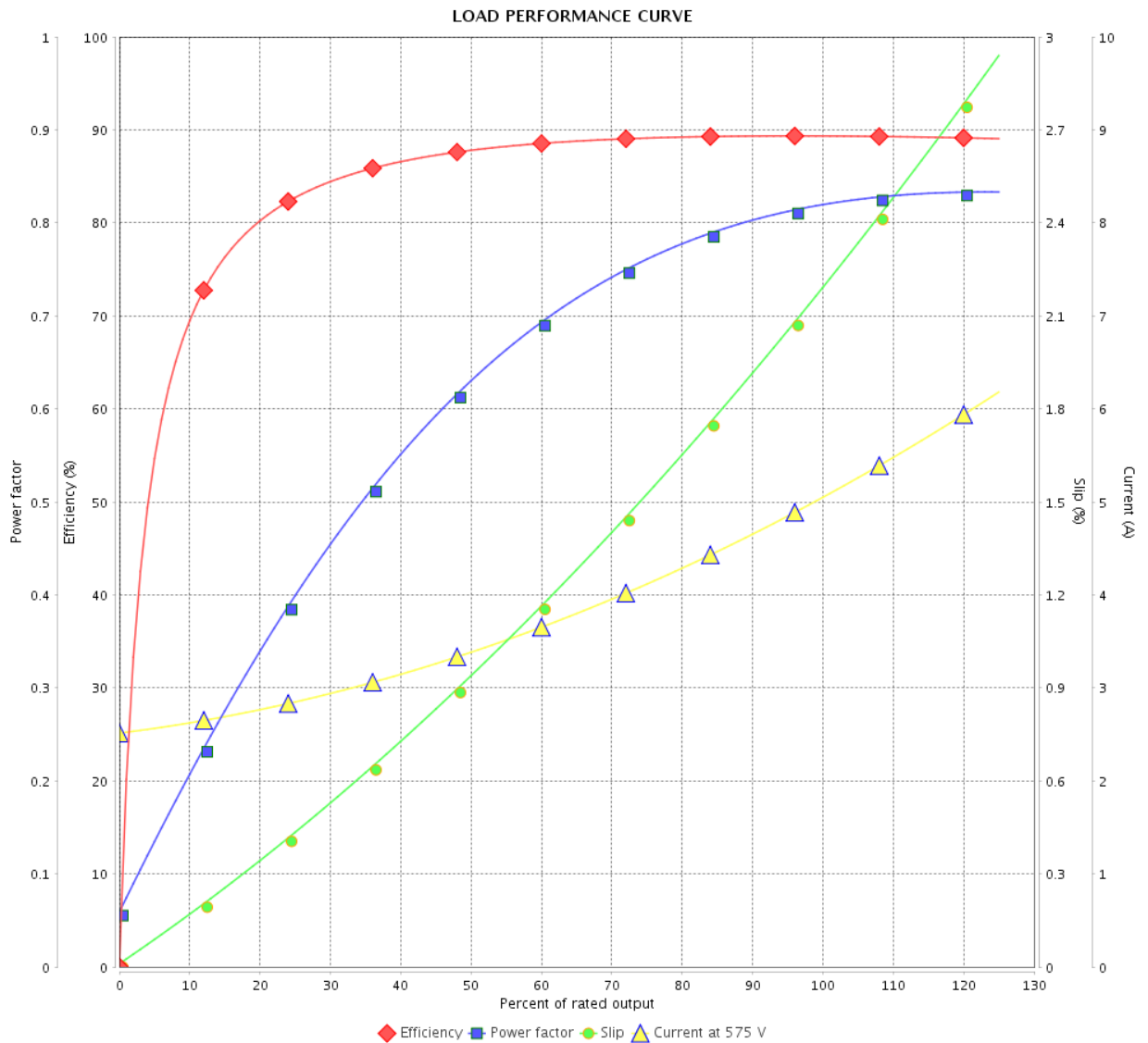


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Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by			3 / 6	
Date	12/04/2022			

THERMAL LIMIT CURVE



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Heating constant

Cooling constant

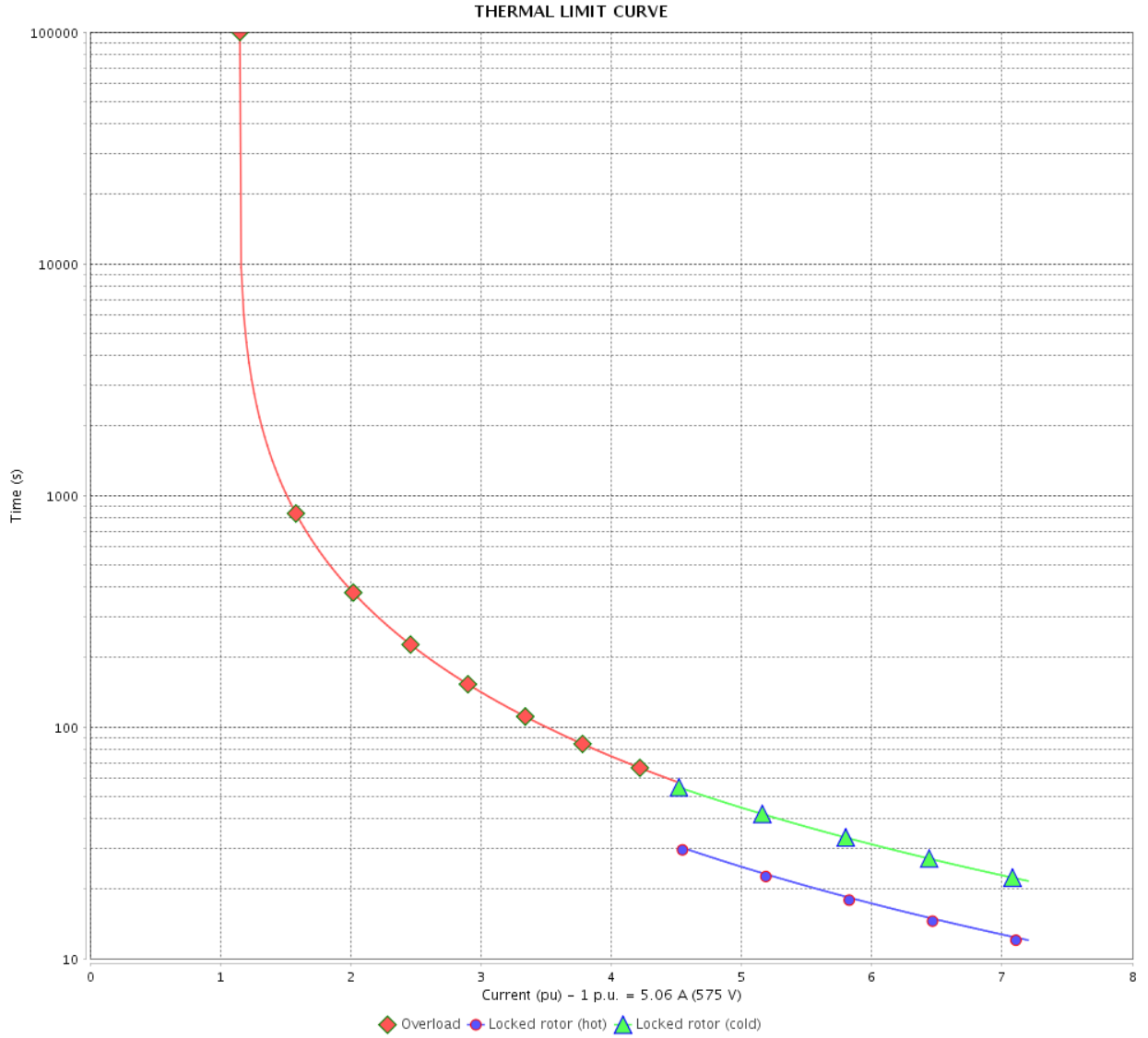
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	12/04/2022		4 / 6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 5 / 6		Revision
Checked by				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

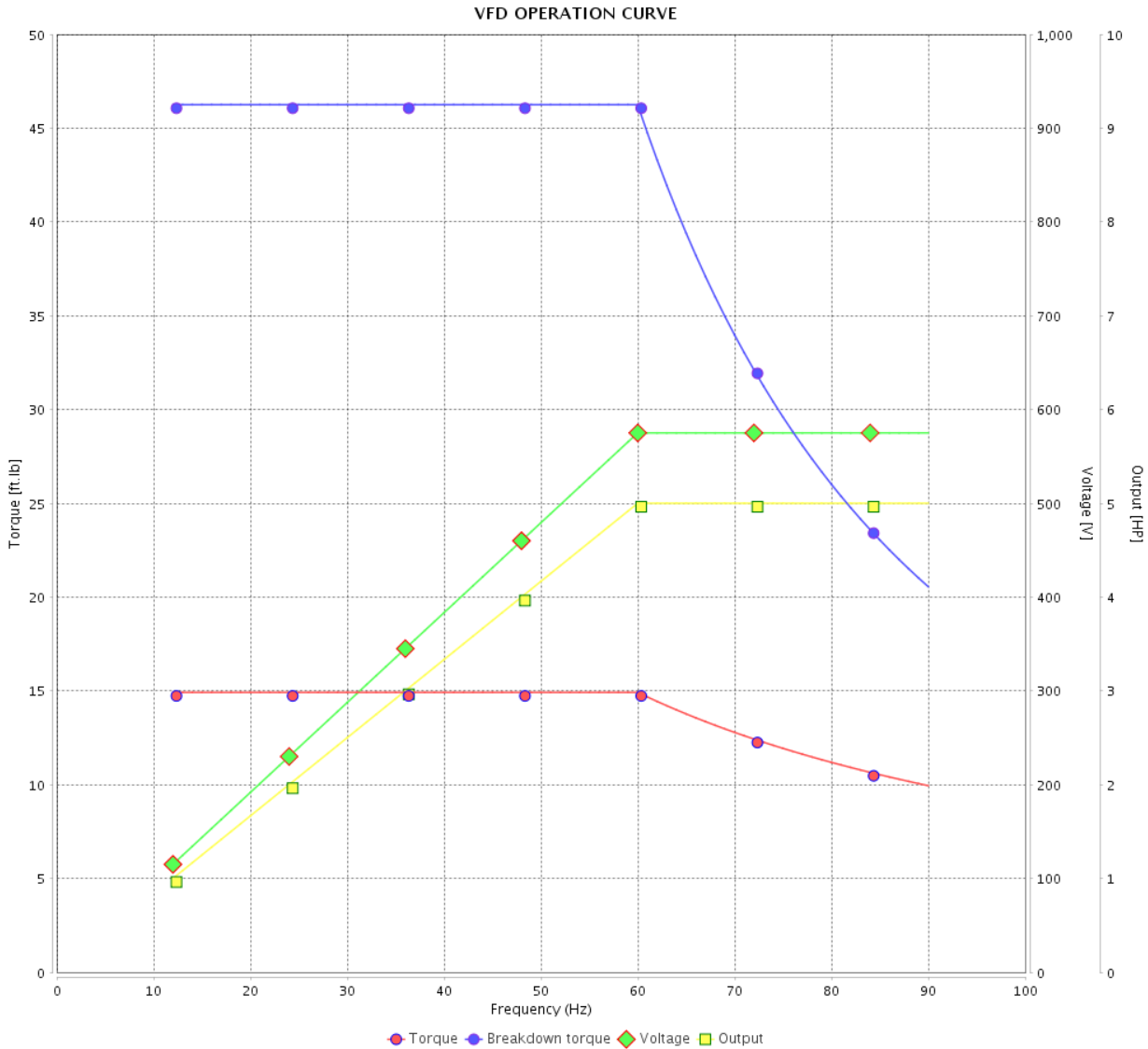


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1 2 3 4 5 6

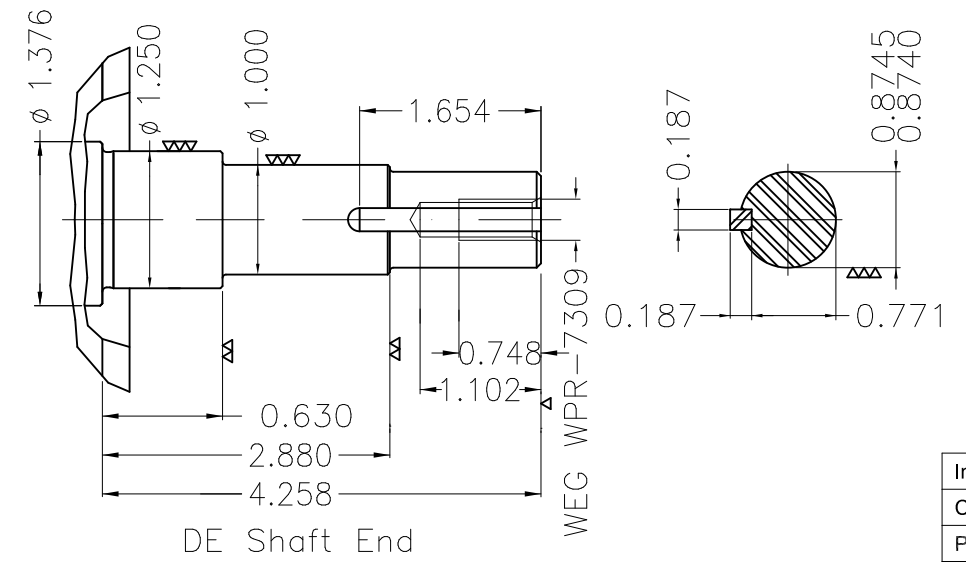
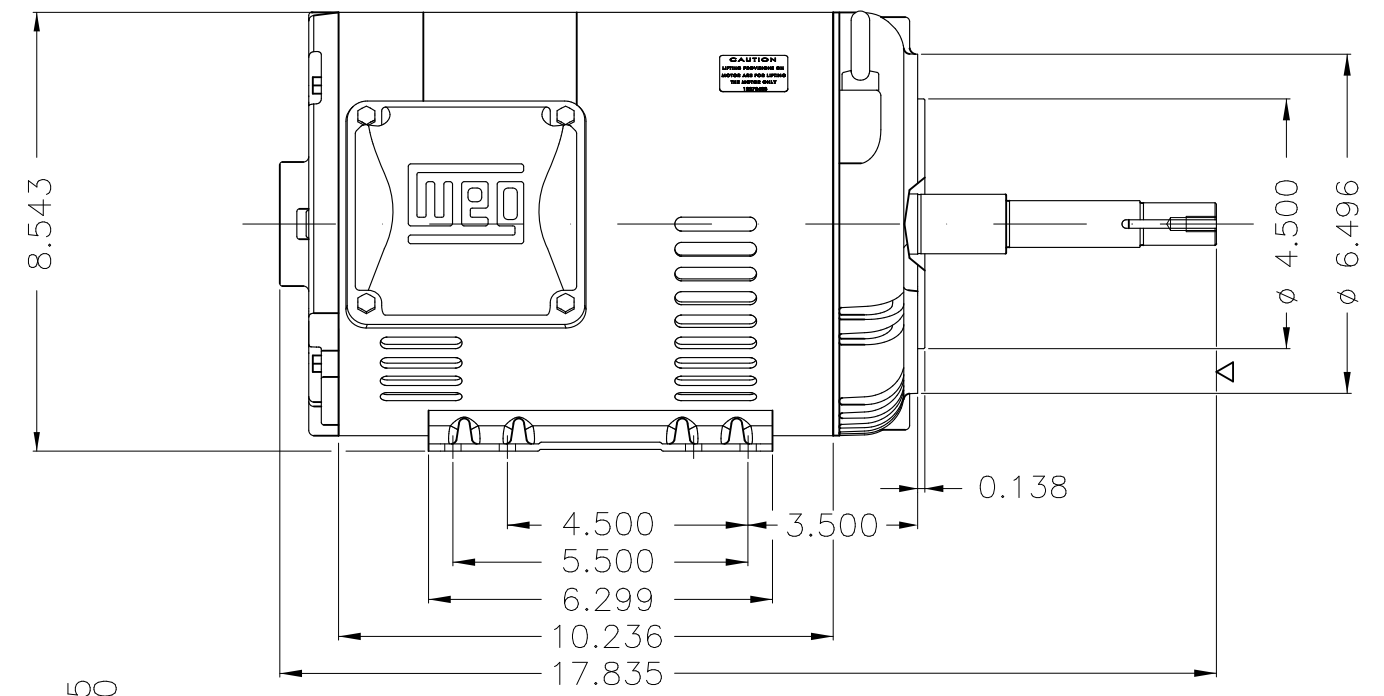
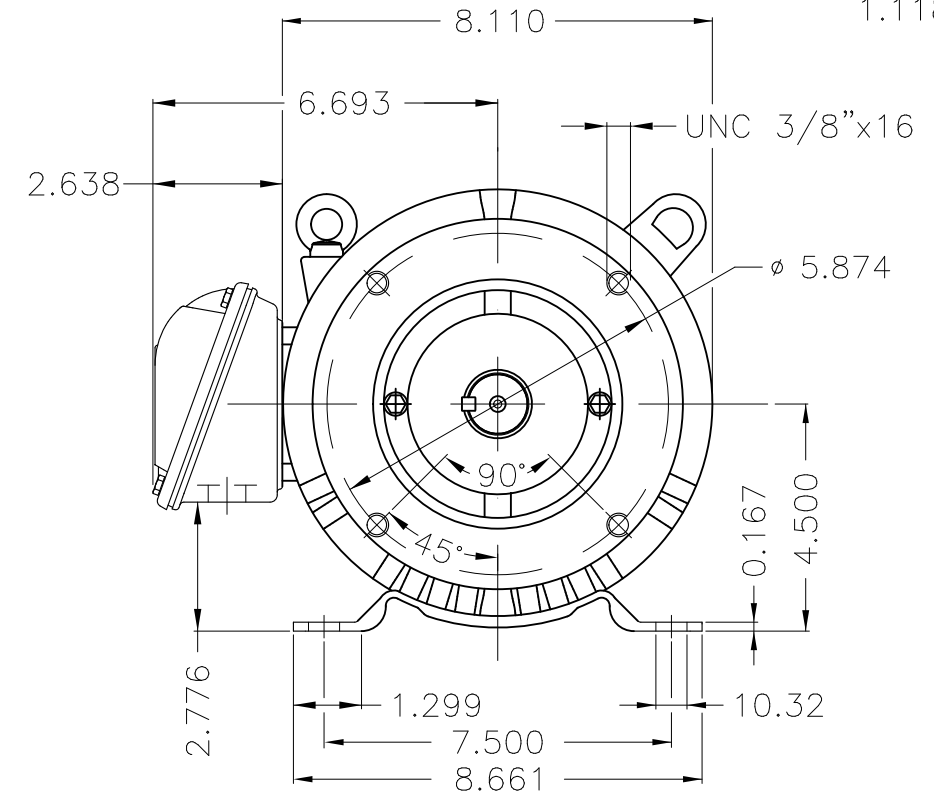
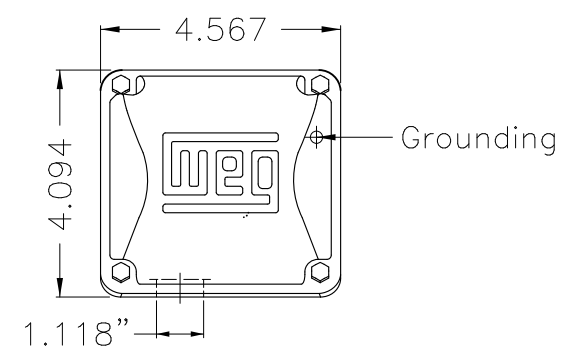
A

B

C

D

E



EUNC 3/8"-16 WEG WPR-7309

DE Shaft End

Internal AEGIS ground ring on the DE
 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	PIRWUSER	THREE PH. MOTOR ROLLED STEEL CLOSE COUPLED PUMP JN TYPE PSEF 575					
CHECKED		FRAME 182/4JM IP21 ODP					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	WDD	SHEET	1 / 1	

5 HP 04 Poles 60 Hz





NEMA
Premium



MADE IN MEXICO

MAT: 12922411 CC029A

W01.T00IC0X0N

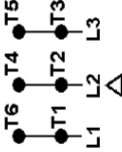
MODEL 005180T3H184JM-SG

01APR2022 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 5.06
INS CL F AT 80K		SFA 5.82
AMB 40°C	DES B	SF 1.15
ENCL ODP	CODE J	PF 0.82
		RPM 1760
		NEMA
		NOM. EFF 89.5%

Inverter duty motor For use on VPWM 1000:1 VT, 5:1 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.

