

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : JM Pump NEMA Premium Efficiency Three-Phase

Product code : 14218464

Catalog # : 00518ET3H184JM-SG

Frame : 182/4JM
 Output : 5 HP (3.7 kW)
 Poles : 4
 Frequency : 60 Hz
 Rated voltage : 575 V
 Rated current : 5.19 A
 L. R. Amperes : 36.3 A
 LRC : 7.0x(Code J)
 No load current : 2.75 A
 Rated speed : 1750 rpm
 Slip : 2.78 %
 Rated torque : 15.0 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 300 %
 Insulation class : F
 Service factor : 1.15
 Moment of inertia (J) : 0.3080 sq.ft.lb
 Design : B

Locked rotor time : 28s (cold) 16s (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
 Rotation¹ : Both (CW and CCW)
 Noise level² : 56.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 83.8 lb

Output	25%	50%	75%	100%
Efficiency (%)	88.2	88.5	89.5	89.5
Power Factor	0.35	0.60	0.73	0.80

Foundation loads
 Max. traction : 246 lb
 Max. compression : 329 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6207 ZZ	6205 ZZ
Sealing	:	V'Ring	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.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



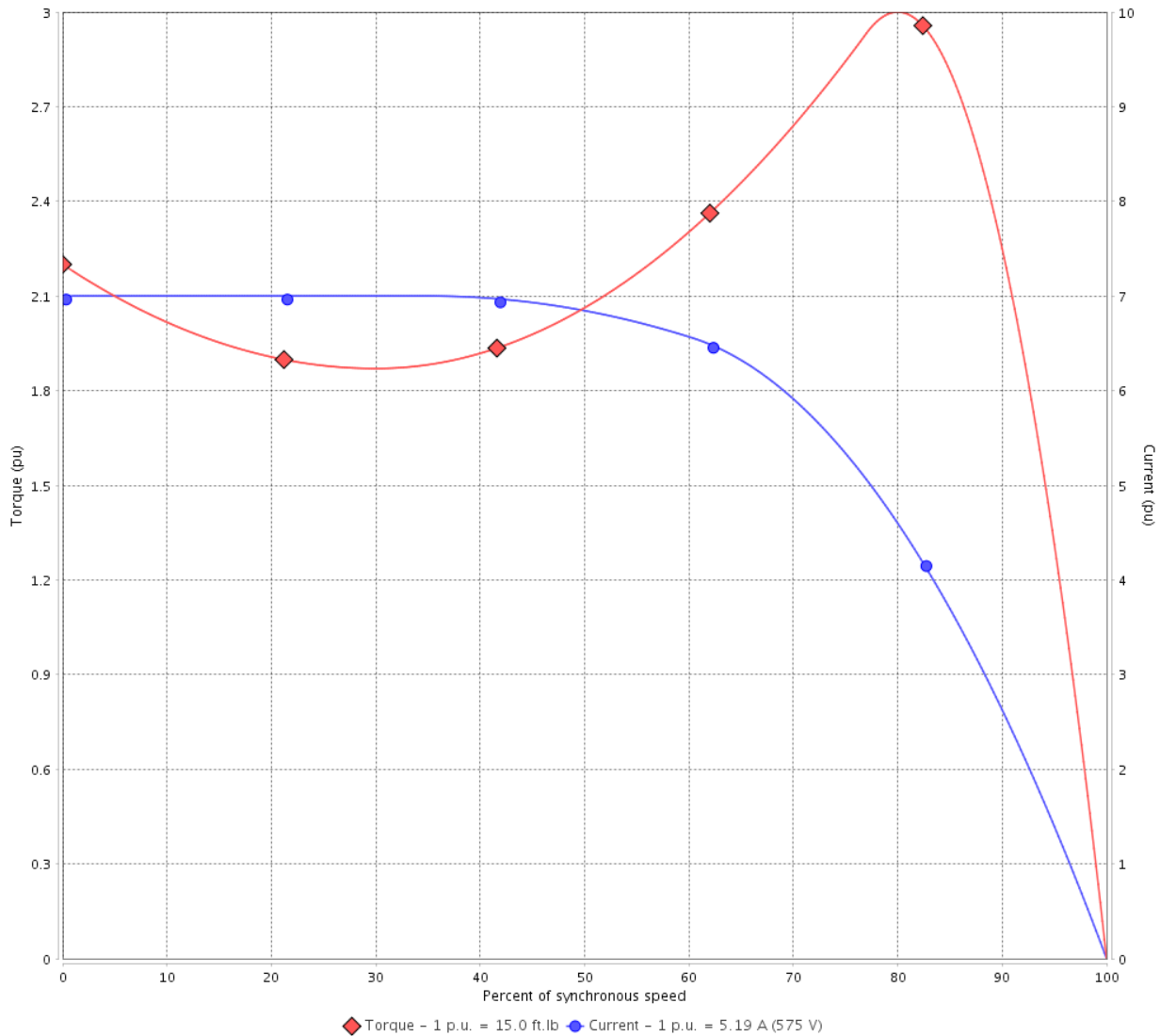
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Efficiency Three-Phase

Product code : 14218464

Catalog # : 00518ET3H184JM-SG

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 4P

Rated current	: 5.19 A	Moment of inertia (J)	: 0.3080 sq.ft.lb
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 15.0 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

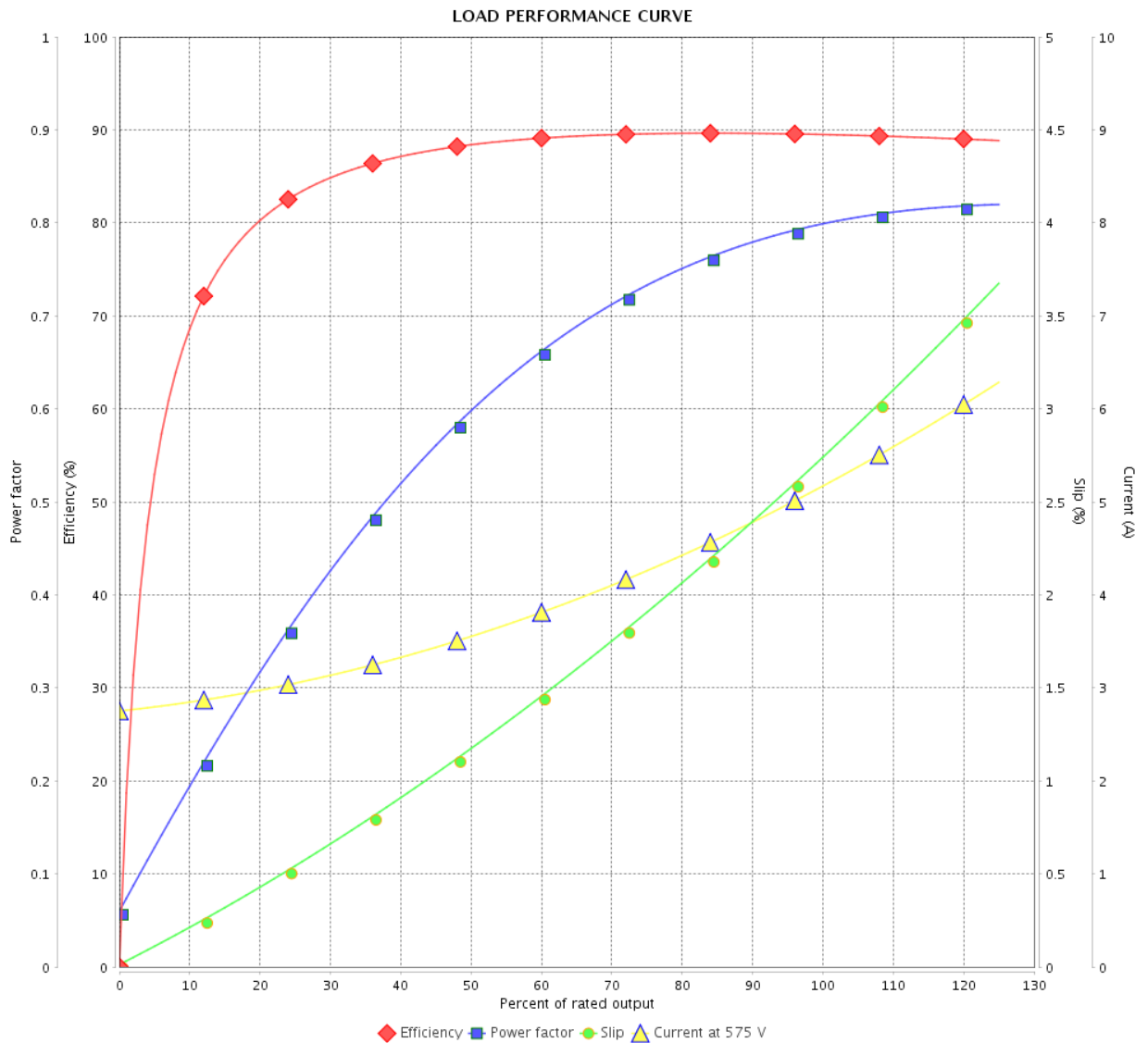


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THERMAL LIMIT CURVE



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Design : B

Heating constant

Cooling constant

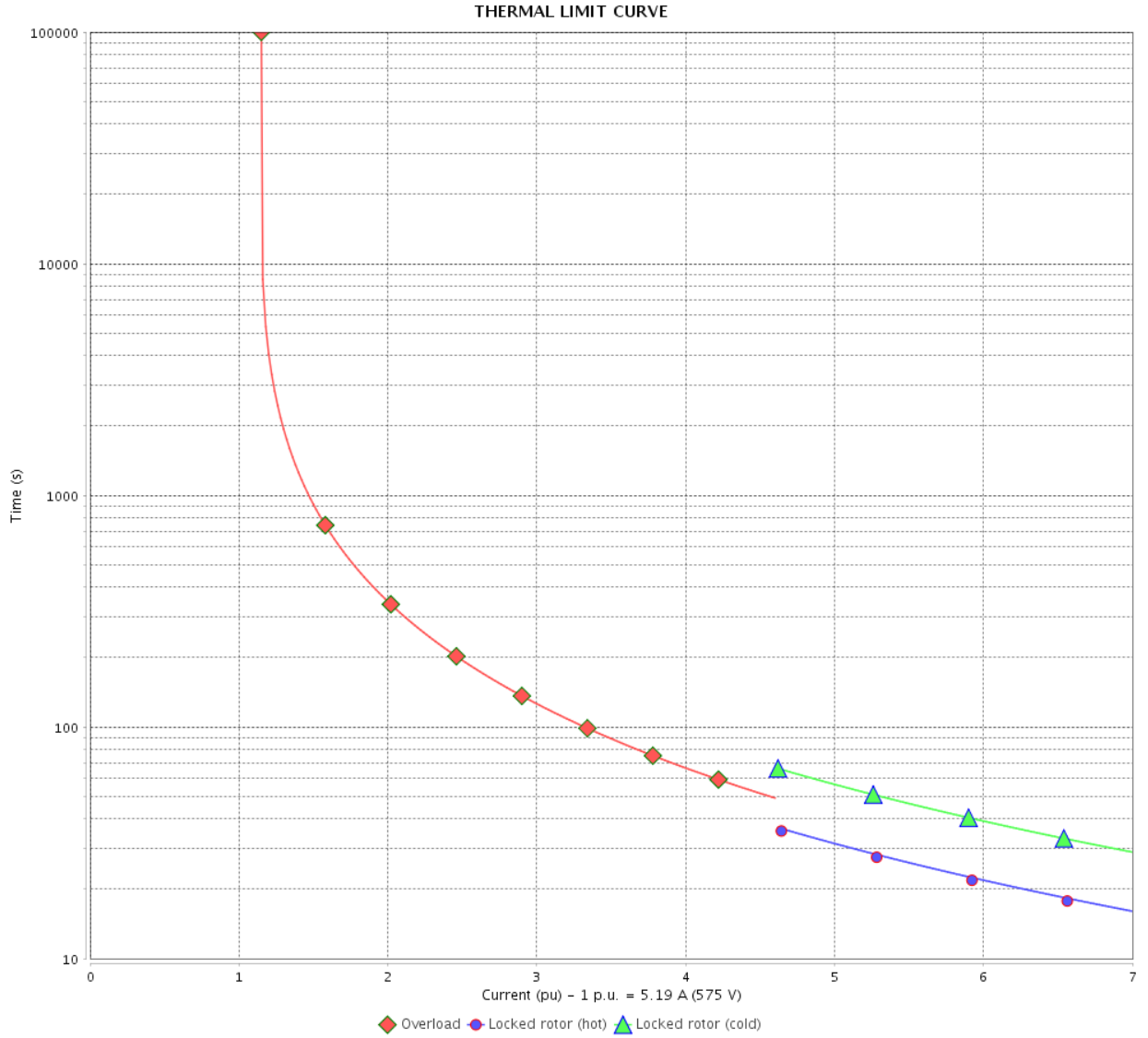
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



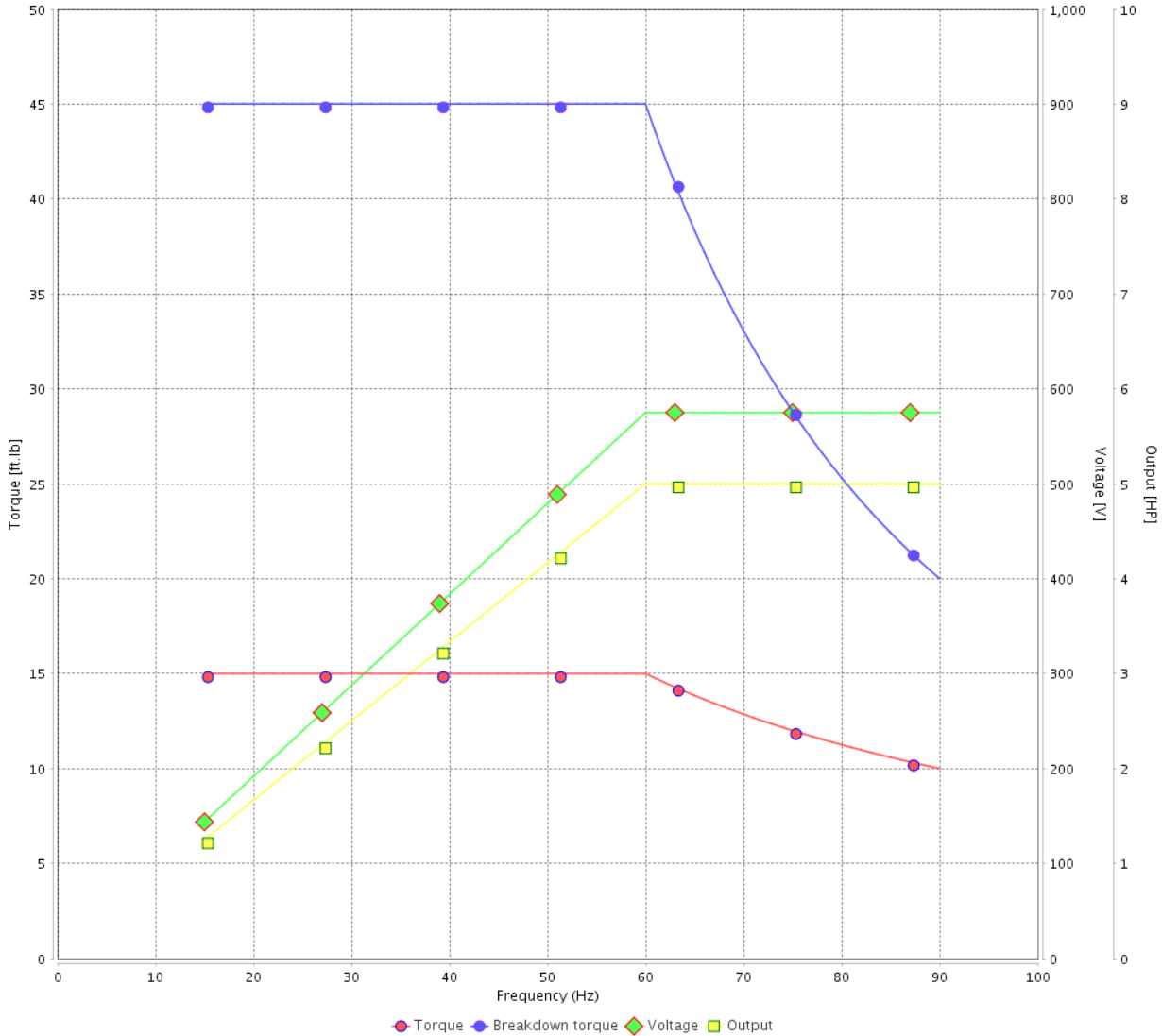
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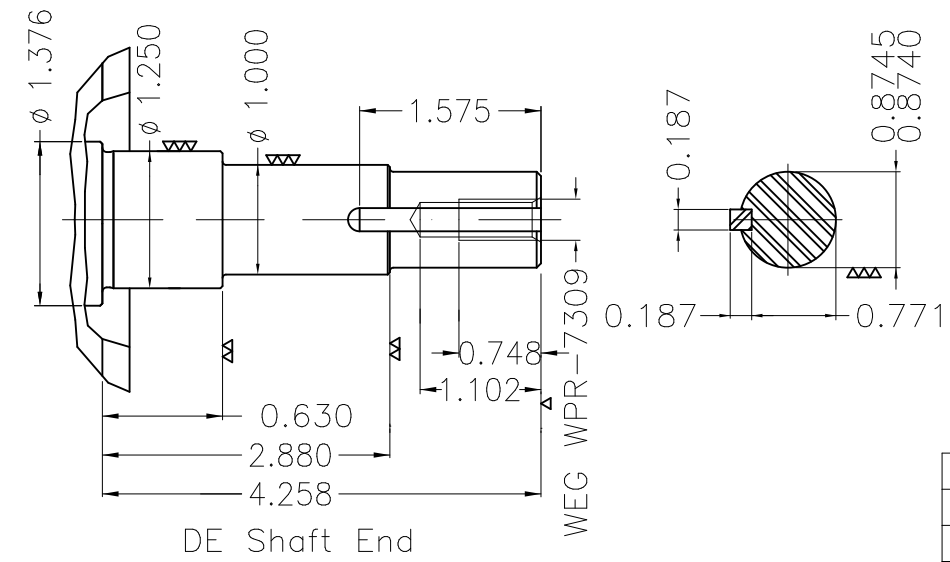
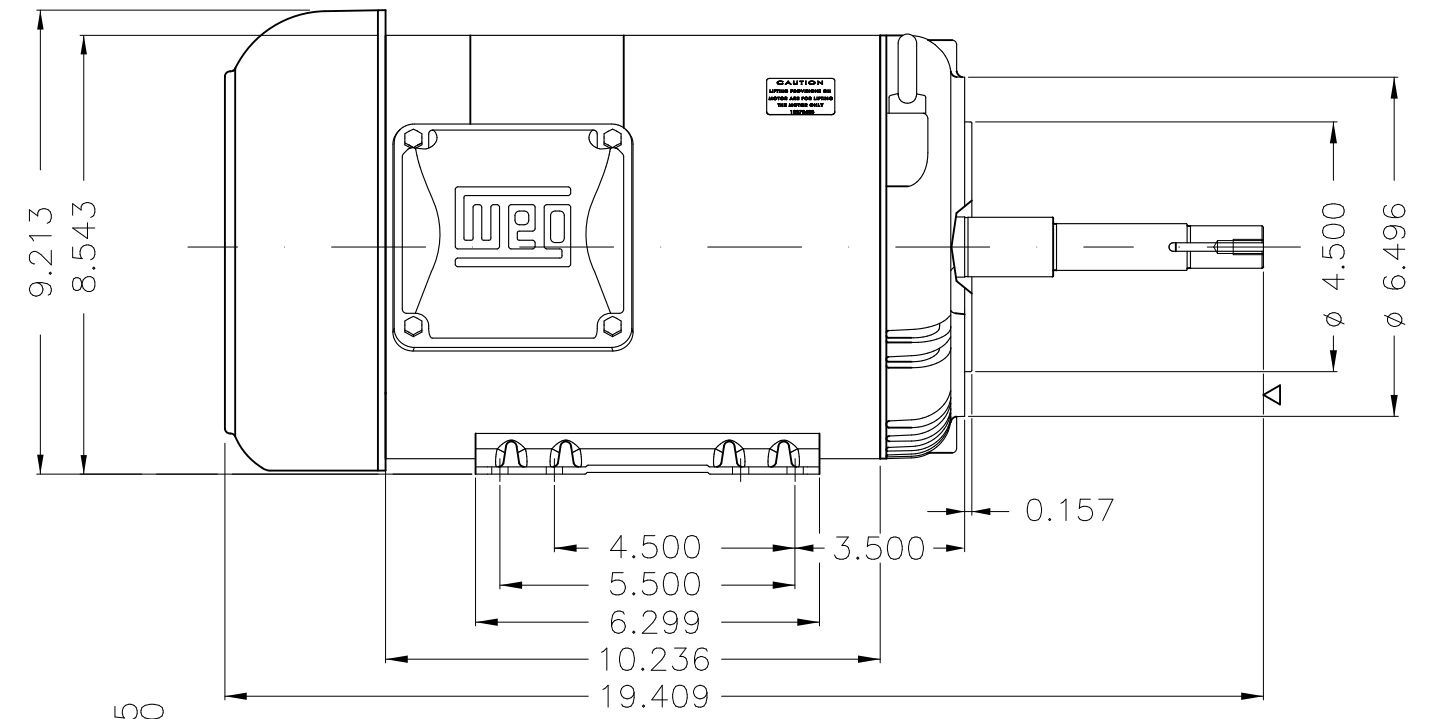
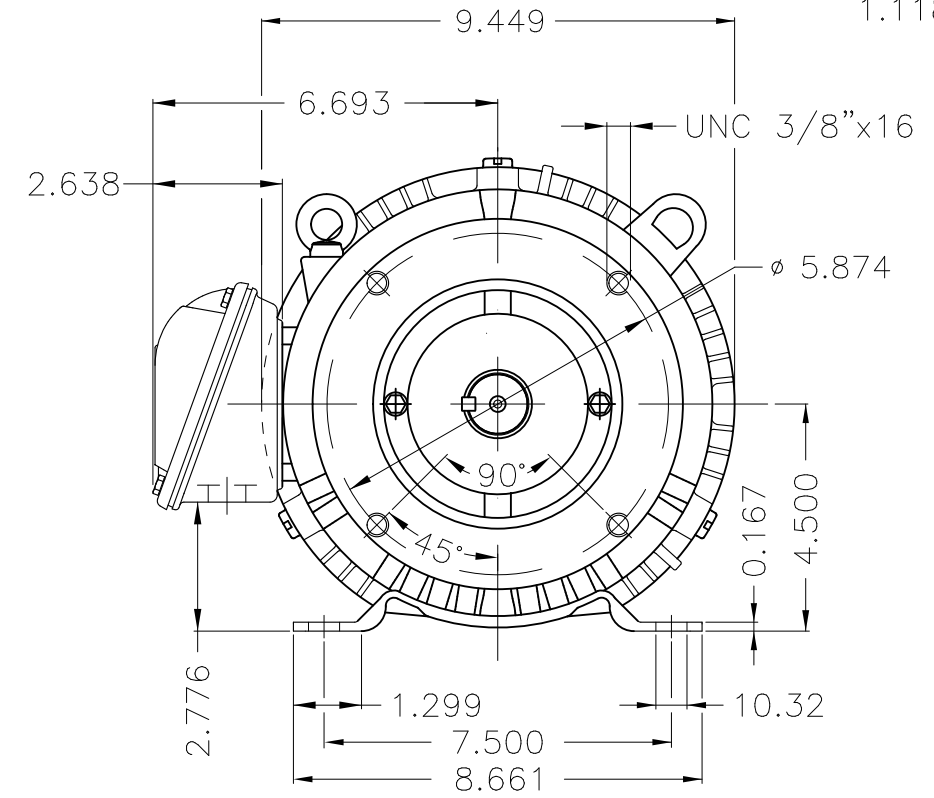
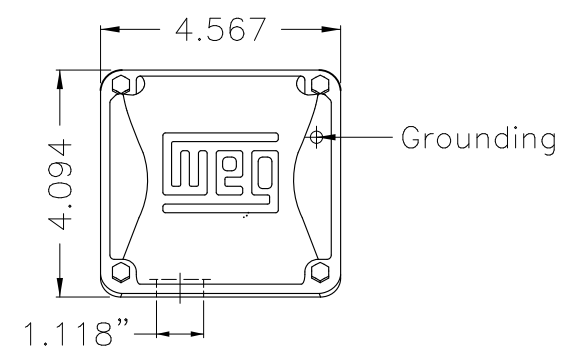
A

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	PIRBUSER	THREE PH. MOTOR ROLLED STEEL CLOSE COUPLED PUMP JN TYPE PSEF 575					
CHECKED		FRAME 182/4JM IP55 TEFC					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	WDD	SHEET	1 / 1	

5 HP 04 Poles 60 Hz





NEMA
Premium



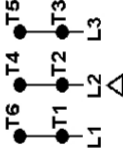
MADE IN MEXICO

MAT: 14218464 CC029A
W01.TE0IC0X0N
JM005504NPW01GR
14MAR2022 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 5.19
INS CL F AT 80K	IP55	SFA 5.97
AMB 40°C	DES B	SF 1.15
ENCL TEFC	CODE J	PF 0.80
		RPM 1750
		NEMA NOM. EFF 89.5%

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

