

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | |
|--|--|-----------|---------|----------|
| Customer : | | | | |
| Product line | : NEMA Premium Efficiency Three-Phase | | | |
| Product code : | 12717830 | | | |
| Catalog # : | 00718ET3H213T-W22 | | | |
| Frame : 213/5T Output : 7.5 HP (5.5 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 575 V Rated current : 7.34 A L. R. Amperes : 52.1 A LRC : 7.1x(Code H) No load current : 3.52 A Rated speed : 1765 rpm Slip : 1.94 % Rated torque : 22.3 ft.lb Locked rotor torque : 220 % Breakdown torque : 310 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 1.34 sq.ft.lb Design : B | Locked rotor time : 36s (cold) 20s (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 : 58.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 165 lb | | | |
| Output | 25% 50% 75% 100% | | | |
| Efficiency (%) | 88.6 89.5 91.0 91.7 | | | |
| Power Factor | 0.40 0.66 0.76 0.82 | | | |
| Foundation loads | | | | |
| Max. traction | : 308 lb | | | |
| Max. compression | : 472 lb | | | |
| Bearing type | : <u>Drive end</u> 6308 ZZ <u>Non drive end</u> 6207 ZZ | | | |
| Sealing | : V'Ring V'Ring | | | |
| 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 | | | | |
| Checked by | | | Page | Revision |
| Date | 13/04/2022 | | 1 / 6 | |

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



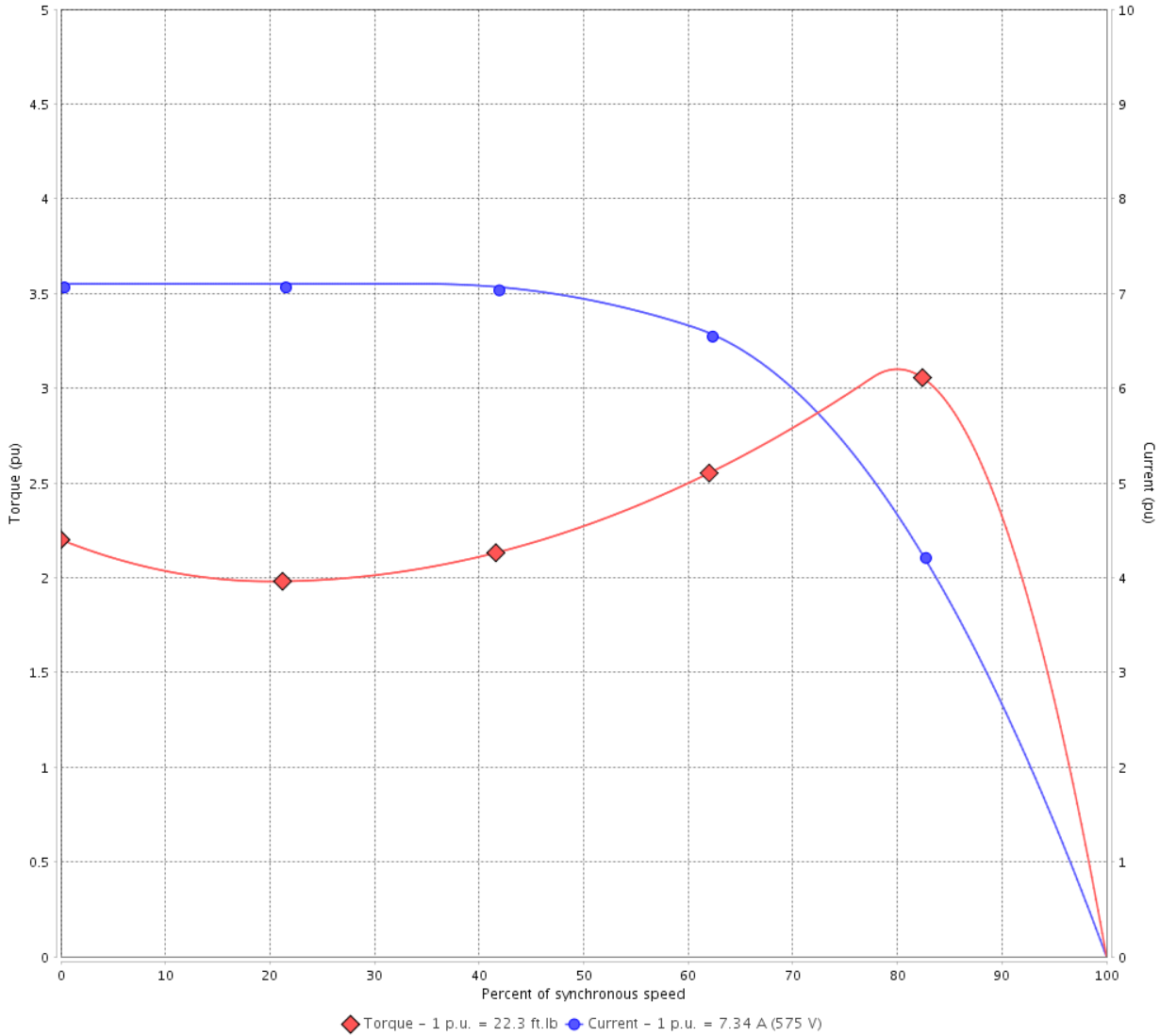
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12717830

Catalog # : 00718ET3H213T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 4P

| | | | |
|---------------------|--------------|-----------------------|-----------------|
| Rated current | : 7.34 A | Moment of inertia (J) | : 1.34 sq.ft.lb |
| LRC | : 7.1 | Duty cycle | : Cont.(S1) |
| Rated torque | : 22.3 ft.lb | Insulation class | : F |
| Locked rotor torque | : 220 % | Service factor | : 1.25 |
| Breakdown torque | : 310 % | Temperature rise | : 80 K |
| Rated speed | : 1765 rpm | Design | : B |

Locked rotor time : 36s (cold) 20s (hot)

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| | | | | |
| Performed by | | | Page 2 / 6 | Revision |
| Checked by | | | | |
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

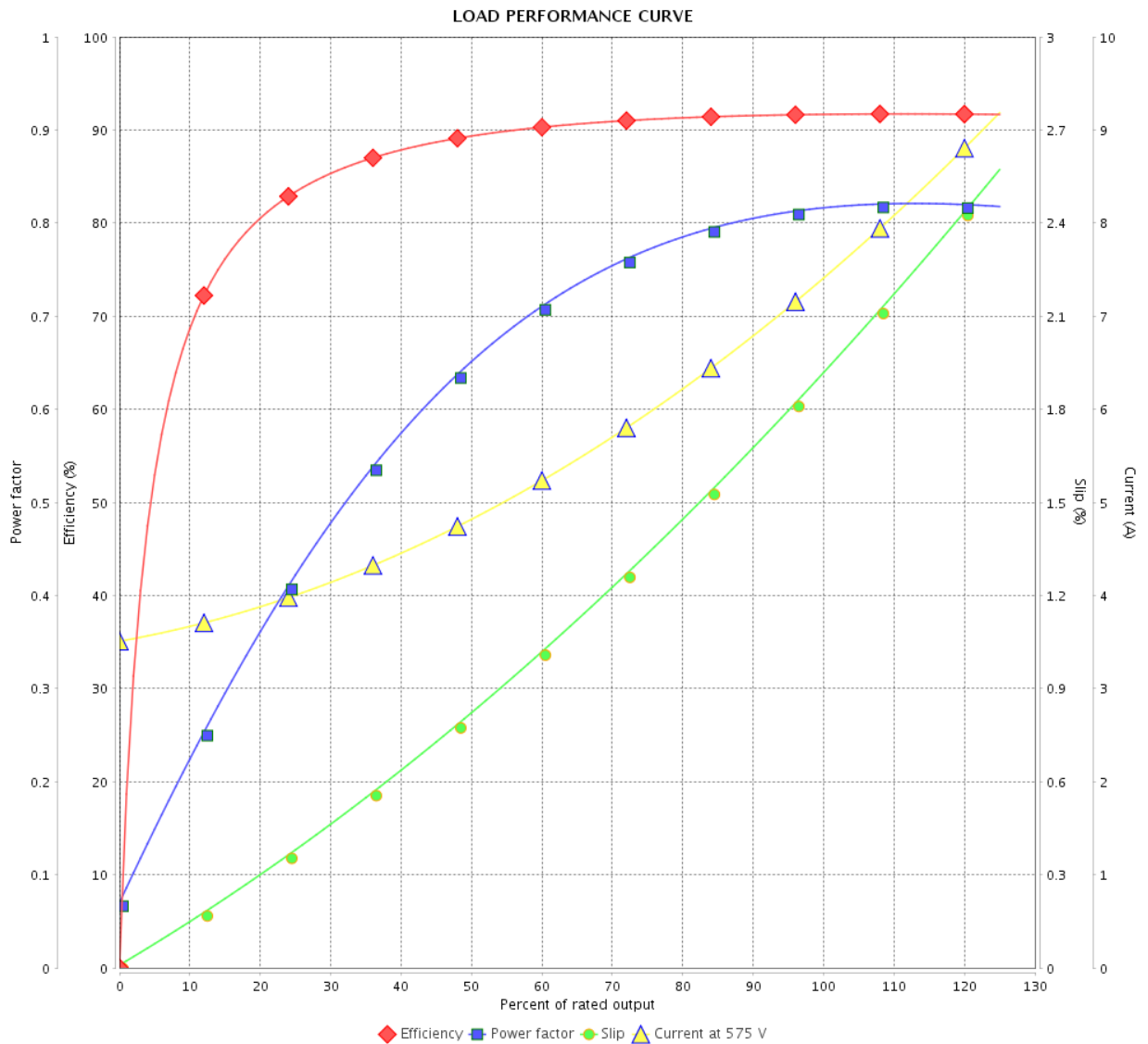


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12717830

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Performance : 575 V 60 Hz 4P

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 Insulation class : F
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|--------------|-----------------|------------|---------|----------|
| | | | | |
| Performed by | | Page | | Revision |
| Checked by | | 3 / 6 | | |
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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| Breakdown torque | : 310 % | Temperature rise | : 80 K |
| Rated speed | : 1765 rpm | Design | : B |

Heating constant

Cooling constant

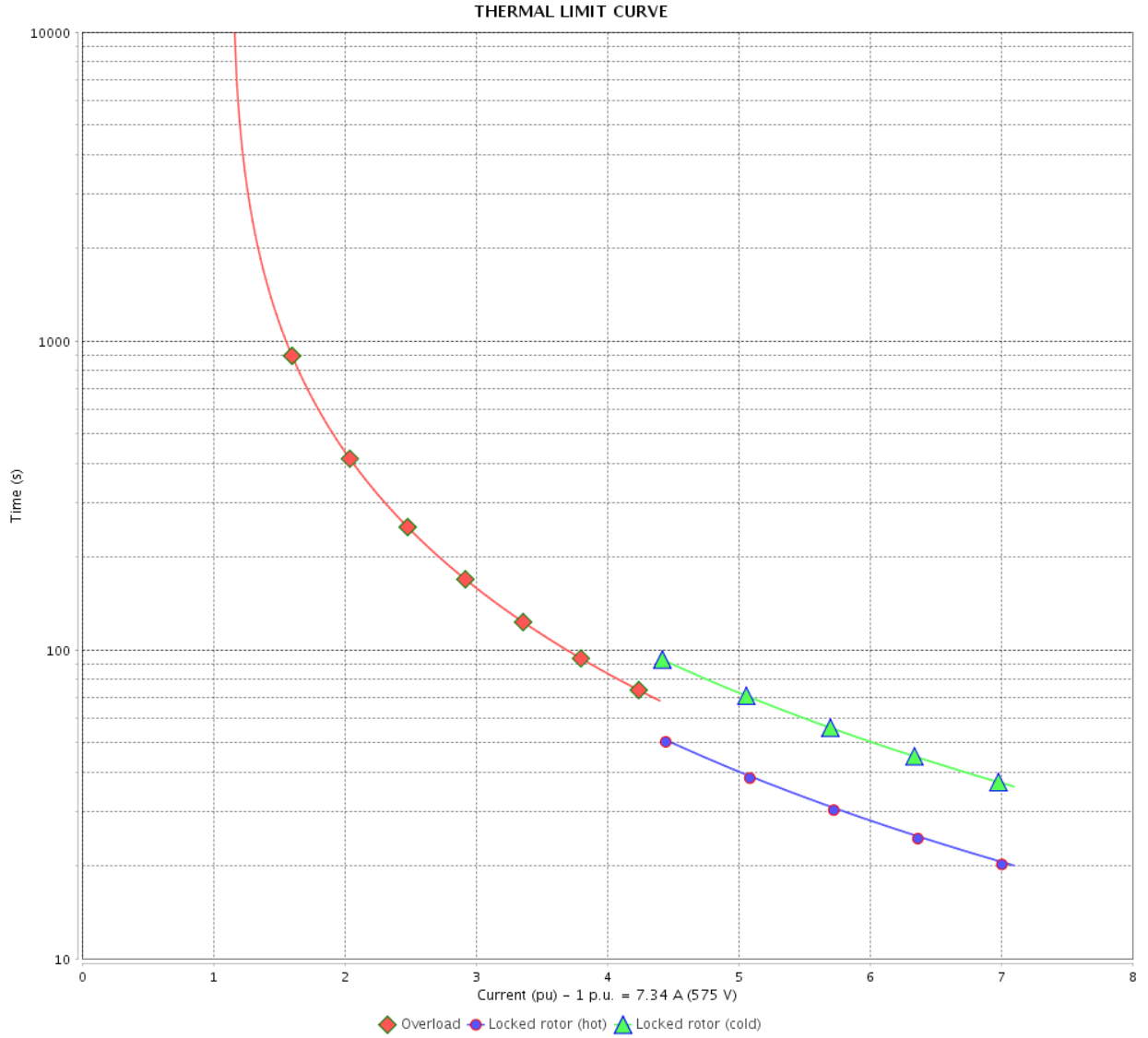
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| Checked by | | | Page | Revision |
| Date | 13/04/2022 | | 4 / 6 | |

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



| Rev. | Changes Summary | Performed | Checked | Date |
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| | | | | |
| Performed by | | Page 5 / 6 | | Revision |
| Checked by | | | | |
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



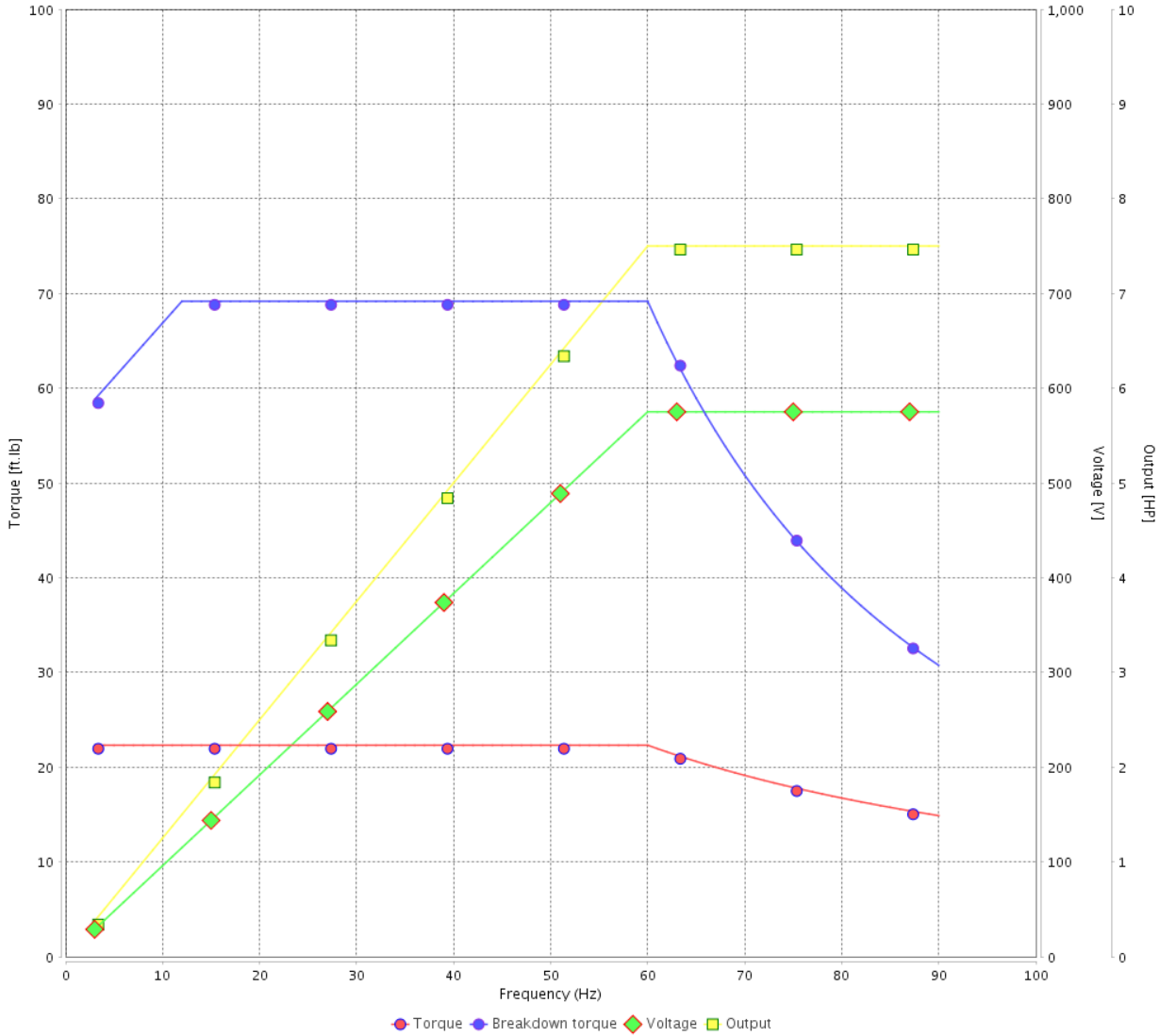
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VFD OPERATION CURVE



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 Rated torque : 22.3 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 310 %
 Rated speed : 1765 rpm

Moment of inertia (J) : 1.34 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

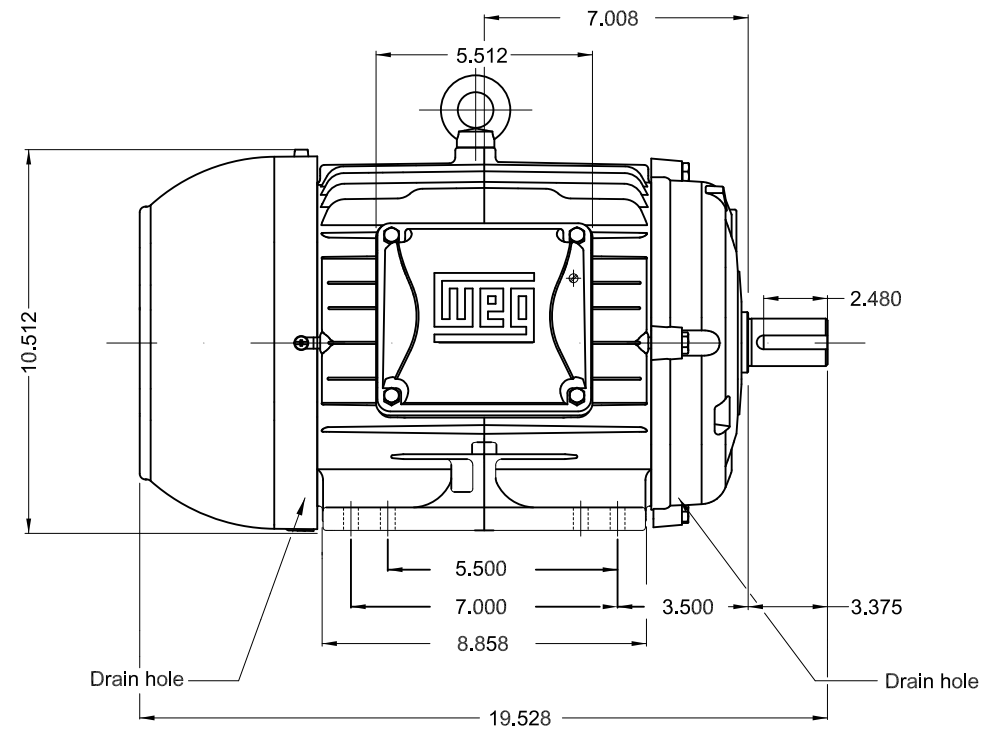
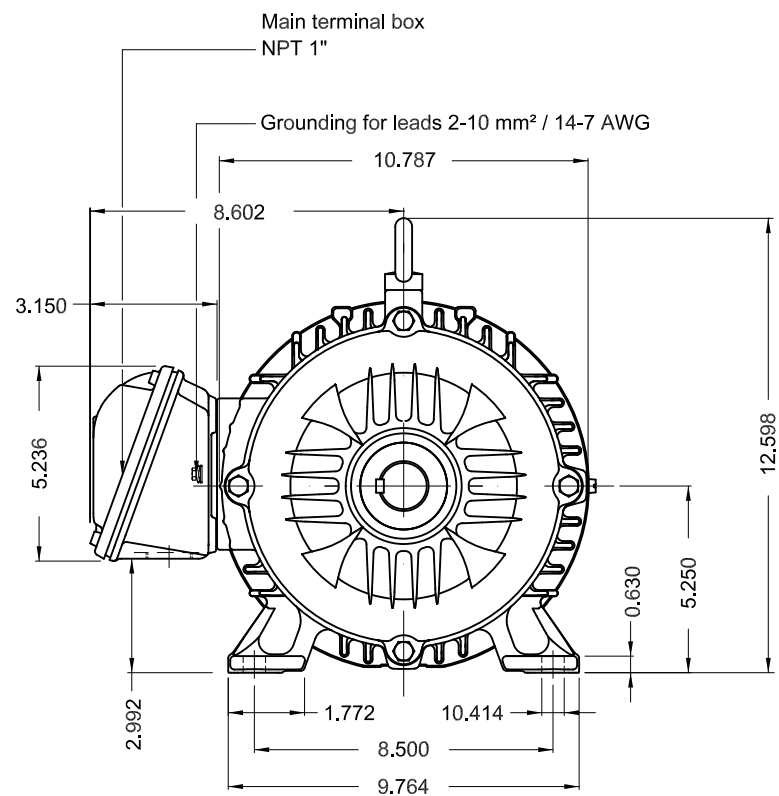
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1 2 3 4 5 6

A

B

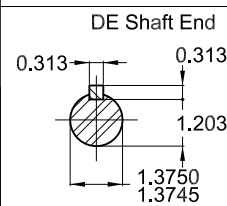
C



D

E

Color RAL 5009
 Painting plan 207A
 Mounting NEMA F-1
 Mounting B3R(D)



7.5 HP 04 Poles 60 Hz A

| ECM | LOC | SUMMARY OF MODIFICATIONS | EXECUTED | CHECKED | RELEASED | DATE | VER |
|----------|-----------|--------------------------------|---------------------|---------|----------|------|-----|
| EXECUTED | PIRWBUSER | THREE PH. MOTOR W22 PREM. EFF. | | | | | |
| CHECKED | | FRAME 213/5T IP55 TEFC | | | | | |
| RELEASED | | | | | | | |
| REL DT. | WMO | Jaragua do Sul | Product Engineering | SHEET | 1 / 1 | | |

PREVIEW
 WDD



MADE IN BRAZIL
12717830



MODEL 00718ET3H213T-W22

Inverter Duty Motor
Severe Duty



Class I, Div 2, Gr A, B, C and D - T3
Class I, Zone 2, IIC - T3
Class II, Div 2, Gr F and G - T4
For use on PWM: Gr. A, B, C, D and F,
VT 1000:1, CT 20:1, 1.00SF - T3A



FOR SAFE AREA
Mod. TE1BFOXON
CC029A

PH3 60Hz Fr. 213/5T 1000m.a.s.l. IP55 TEFC 165lb

V 575

A 7.34

HP 7.5

kW 5.5

SF 1.25

SFA 9.18

RPM 1765

PF 0.82

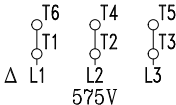
AMB 40°C

INS cl. F DT80K

NEMA NOM EFF 91.7%

DUTY CONT.

DES B Code H



MOBIL POLYREX EM

