

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

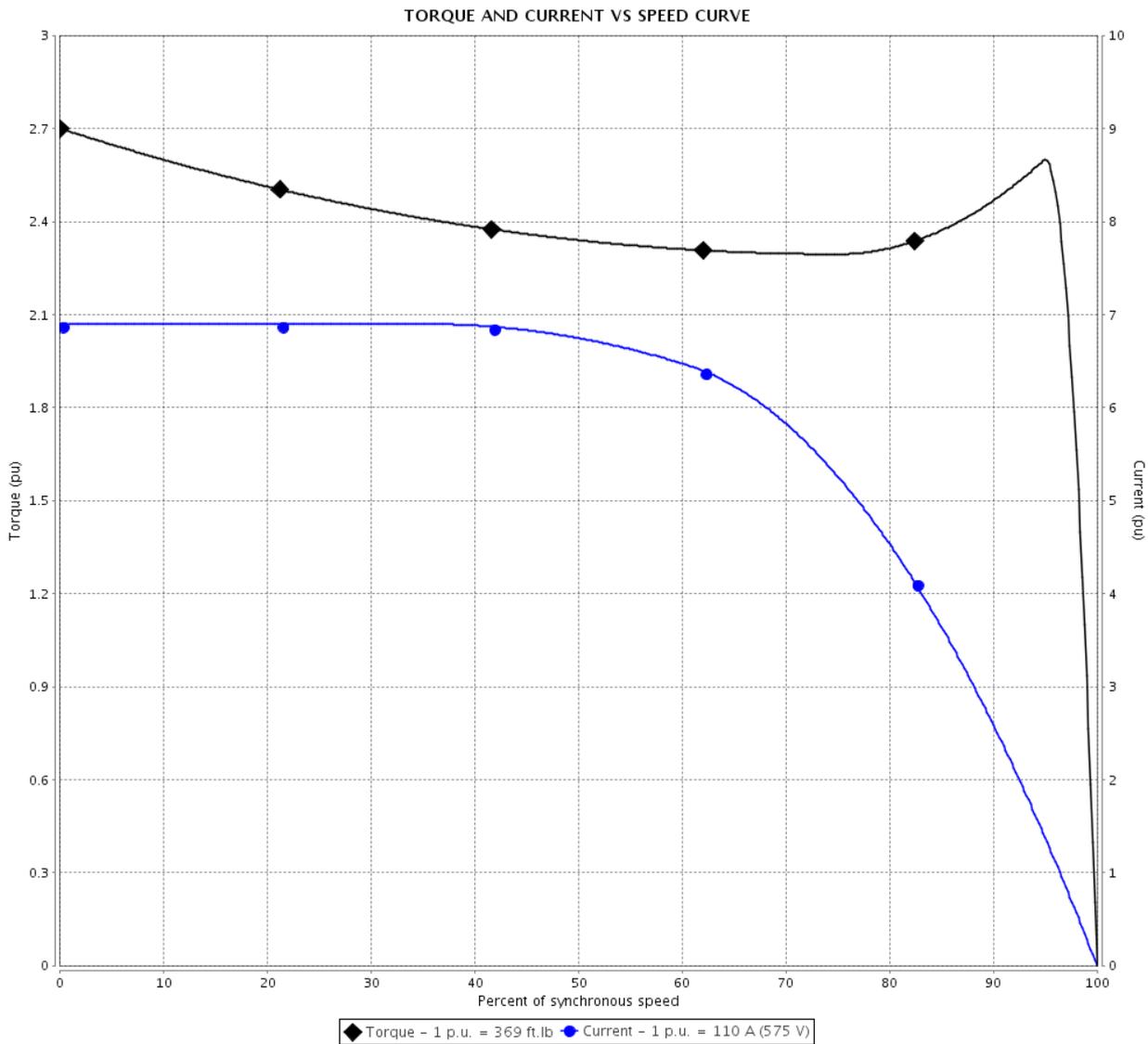


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 14272884

Catalog # : 12518OT3H405T-W40



Performance : 575 V 60 Hz 4P

| | | | |
|---------------------|-------------|-----------------------|-----------------|
| Rated current | : 110 A | Moment of inertia (J) | : 25.5 sq.ft.lb |
| LRC | : 6.9 | Duty cycle | : Cont.(S1) |
| Rated torque | : 369 ft.lb | Insulation class | : F |
| Locked rotor torque | : 270 % | Service factor | : 1.25 |
| Breakdown torque | : 260 % | Temperature rise | : 80 K |
| Rated speed | : 1780 rpm | Design | : B |

Locked rotor time : 18s (cold) 10s (hot)

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------------|----------|
| | | | | |
| Performed by | | | Page 2 / 6 | Revision |
| Checked by | | | | |
| Date | 10/04/2020 | | | |

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

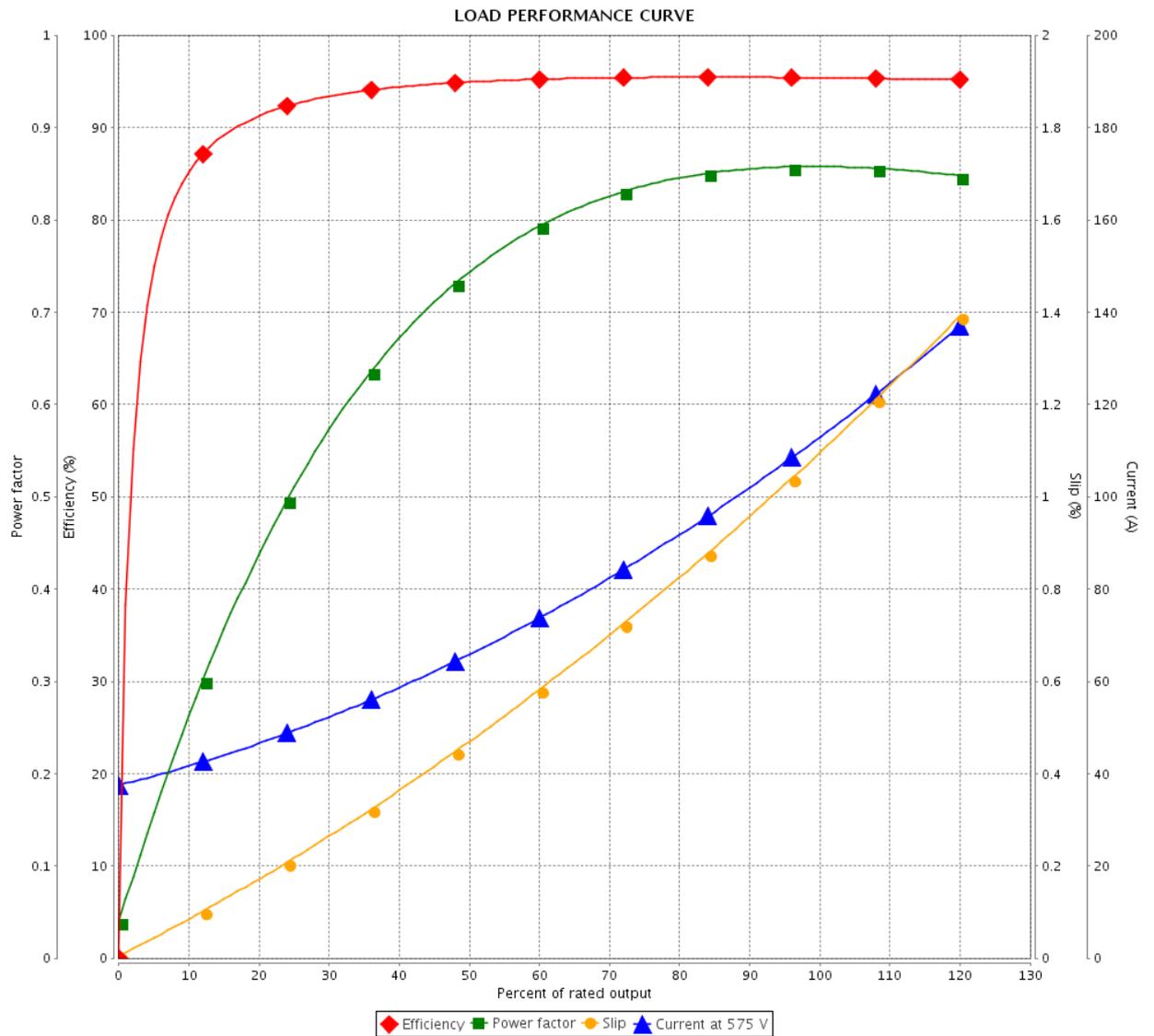


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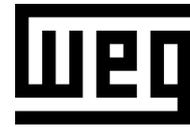
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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

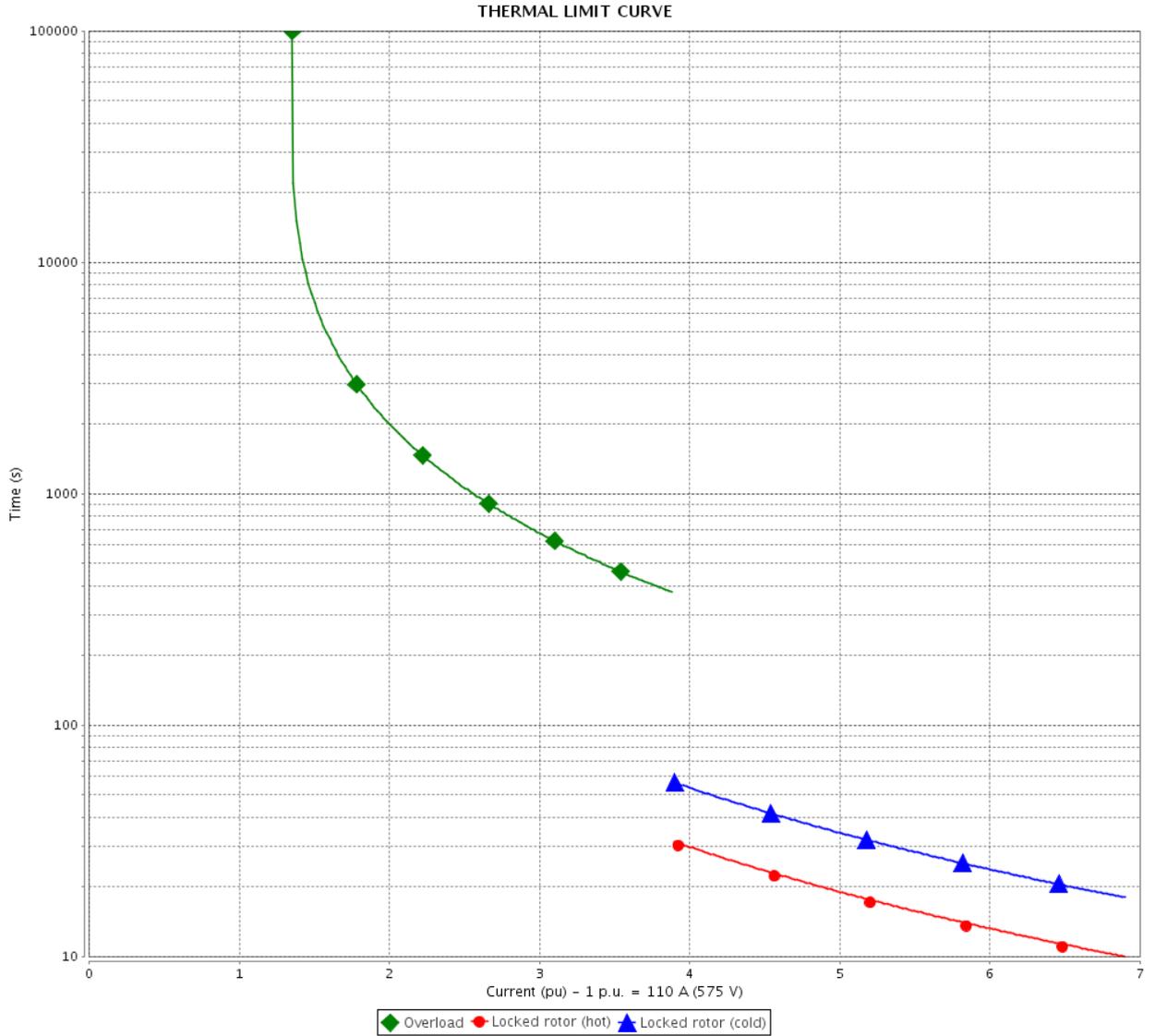
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THERMAL LIMIT CURVE

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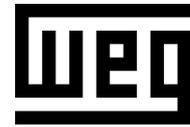
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

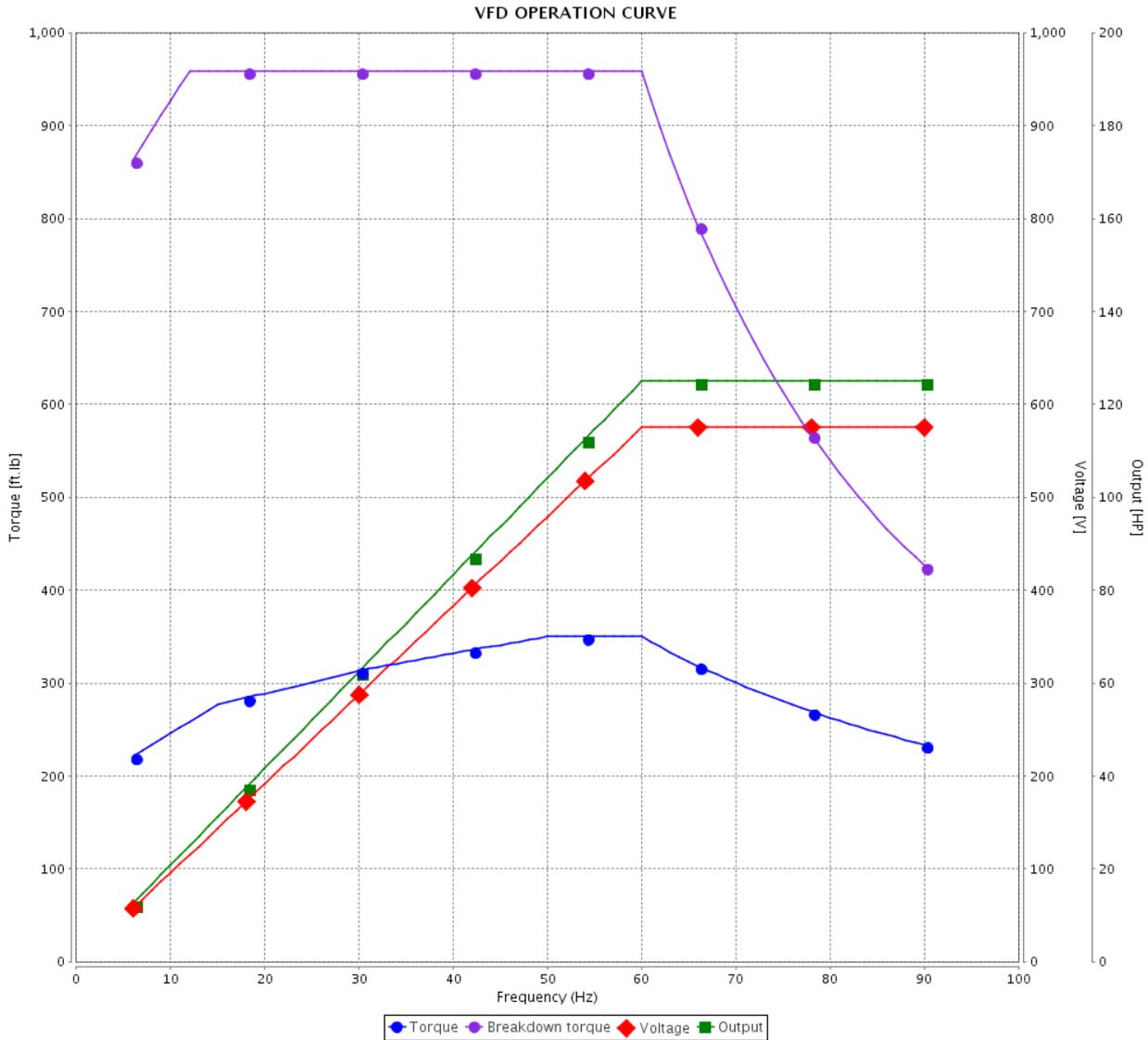


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Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14272884

Catalog # : 12518OT3H405T-W40

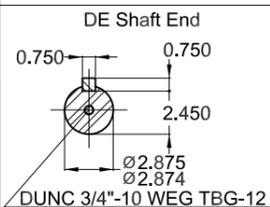
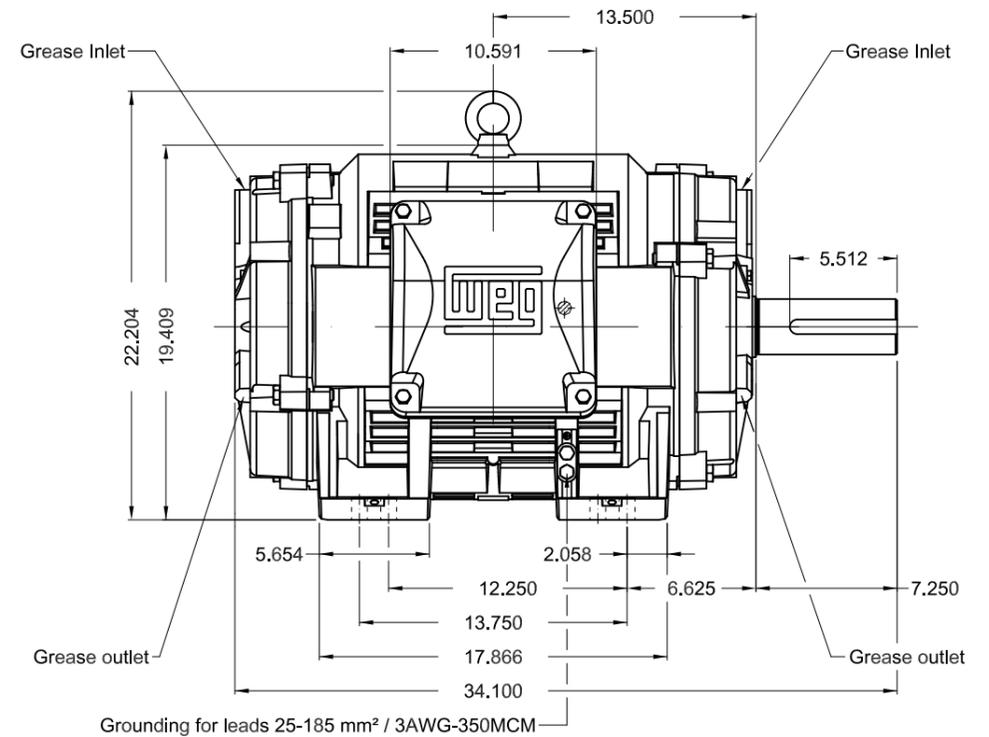
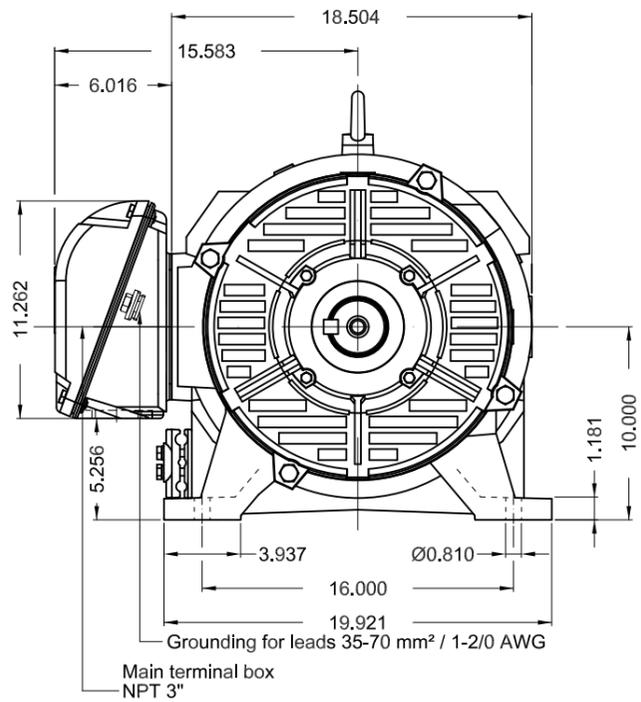


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Color RAL 5009
Painting plan 203A
Mounting NEMA F-1
Mounting B3R(D)

125 HP 04 Poles 60Hz

A

1:9

| ECM | LOC | SUMMARY OF MODIFICATIONS | EXECUTED | CHECKED | RELEASED | DATE | VER |
|----------|-----------|--|---------------------|---------|----------|-------|-----|
| EXECUTED | PIRWBUSER | THREE PHASE W40 MOTOR NEMA PREMIUM EFF | | | | | |
| CHECKED | | FRAME 404/5T IP23 ODP | | | | | |
| RELEASED | | | | | | | |
| REL DT. | | WMO Jaragua do Sul | Product Engineering | WDD | SHEET | 1 / 1 | |

PREVIEW
WDD





W40 NEMA
CC029A Premium

Inverter Duty Motor



MOD.T01#FOXON



For use on PWM, VT 1000:1, CT 2:1, 1.0SF

MODEL 125180T3H405T-W40
 MADE IN BRAZIL
 14272884

| | | | | |
|---------------------|------------|----------------------------|---|-----------|
| PH 3 | FR 404/5T | HP(kW) 125(90) | Hz 60 | |
| V 575 | A 110 | IP23 | | |
| NEMA NOM EFF 95.4 % | RPM 1780 | | | |
| ENCL ODP | DUTY CONT. | INS. CL. F ΔT 80 K | → 6316-C3(34g) MOBIL POLYREX EM → 6212-Z-C3(13g) 20000 h | |
| PF 0.86 | DES B | CODE G | | AMB. 40°C |
| SF 1.25 | SFA 138 | ALT 1000 m.a.s.l. | 1023 Lbs | |