

GFCI15TR/GFCI20TR Serie - Tamper Resistant

Specification Grade

15A/20A, 125VAC, Class A Rated

Catalog No: _____

Project Name: _____

The GFCITR Tamper Resistant Ground Fault Circuit Interrupter (TRGFCI) is UL943 Compliant for use in a circuit of AC 60Hz, 125VAC, 20A current, and offers electric shock protection and prevent the risks of electrical fire caused by ground fault current from electrical equipment's damaged insulation and prevent the double grounding of load and line neutral.

END-OF-LIFE FUNCTION: These devices provide a set of circuits that are capable of performing an automatic check on main components of a circuit interrupting device when the circuit interrupting device is properly powered and the device is at a tripped state it determines whether these main components function properly. The automatic end of life detection and warn functions, when the GFCI fails, the red LED will Auto-warn to remind user. (Prevents line load reversal, miss-wiring) GFCI cannot be reset and does not allow power to the outlet if wired incorrectly.

This device can be installed in the common wall. It has the advantages of being well designed, easy installation, safety and UL certification and are designed for use in retail, office, education, hospitality/lodging, institution, multiple dwelling and residential applications.

Technical Specifications

Technical Performance

| | Parameter Value |
|------------------------|------------------------|
| Operating Temperature: | Between -35°C and 66°C |
| Rated Voltage: | 125VAC |
| Supply Voltage Range | 102~132VAC |
| Frequency: | 60Hz |
| Rated Current: | 20A |
| Rated Leakage Current: | From 5mA + 1mA |
| Trip Time : | 0.025 Seconds |
| Trip Threshold: | 4~6mA |

Material Composition

| | Parameter Value |
|----------------------------------|-------------------------------|
| Securing Screws: | Standard Parts |
| Housing: | Polycarbonate |
| Line Side Terminal Screws: | Plated Steel |
| MOV Insulation Film: | Polyester Film |
| Small Stationary Contact: | Copper & Silver Contact |
| Mounting Yoke: | Zinc - Plated Steel |
| Wall Plate: | Polycarbonate |
| Face Plate: | Polycarbonate |
| RESET Button Assembly: | Polycarbonate |
| Reset Spring: | 72A Steel Wire |
| TEST Parts: | Polycarbonate |
| Big Stationary Contact Assembly: | Copper & Silver Contact |
| Middle Bracket: | Polycarbonate |
| PCB Assembly: | Electrical Parts, PCB, Copper |
| Trip Spring: | 72A Steel Wire |
| In-Line Screw Parts: | Plated Steel |

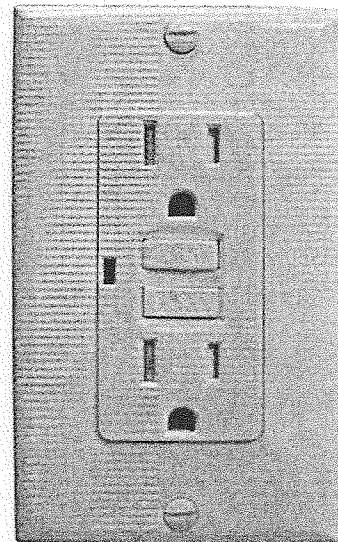
FEATURES: Exceeds UL943 (2008) and CUL943 (2008) technical requirements.

- Class A rated GFCI
- Automatic end-of-life detection and warn functions, when GFCI fails, the red LED will auto-warn to remind user.
- Prevents Line reversal miss-wire: GFCI cannot be reset and will not allow power to the outlet if wired incorrectly.
- Operating temperature range from -35°C to 66°C.
- Surge protection can endure 6000V, 10000A current inrush instantaneously.
- Over 3000 times operational life.
- Resist shock, heat, corrosion and moisture.
- Safe-lock design, assure state of fixing while trip.
- Overload and anti-jamming abilities.
- Compatible with other devices fitted with ground fault protection.
- Permanent electro-magnetic motion.
- Standard appearance, size, assure convenience of installation.
- Wiring screw has new improved tension disc construction, suitable for #10 - #14AWG copper wire reliable connect.
- Green grounding screw for grounding. Allows easy installation and distinguish ability.
- Popular colors available in White, Ivory, Almond, Brown and Gray.

Product Compliance

The TRGFCI complies with the standard of UL 943 & 948 with LED indicator and Automatic End - Of - Life detection and warning function. UL listed

Available Color: White, Ivory, Almond



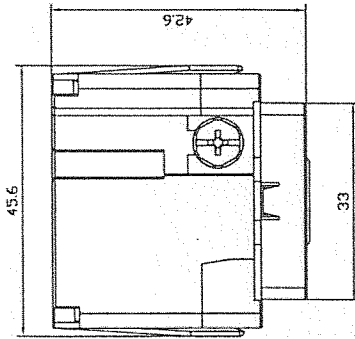
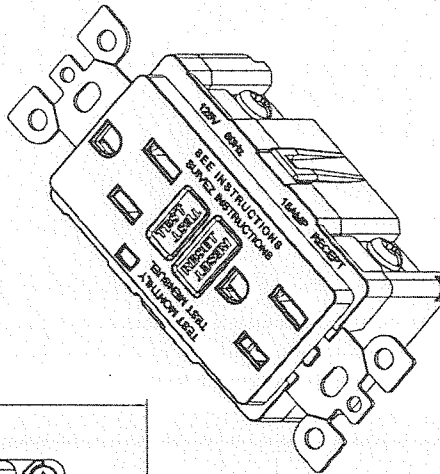
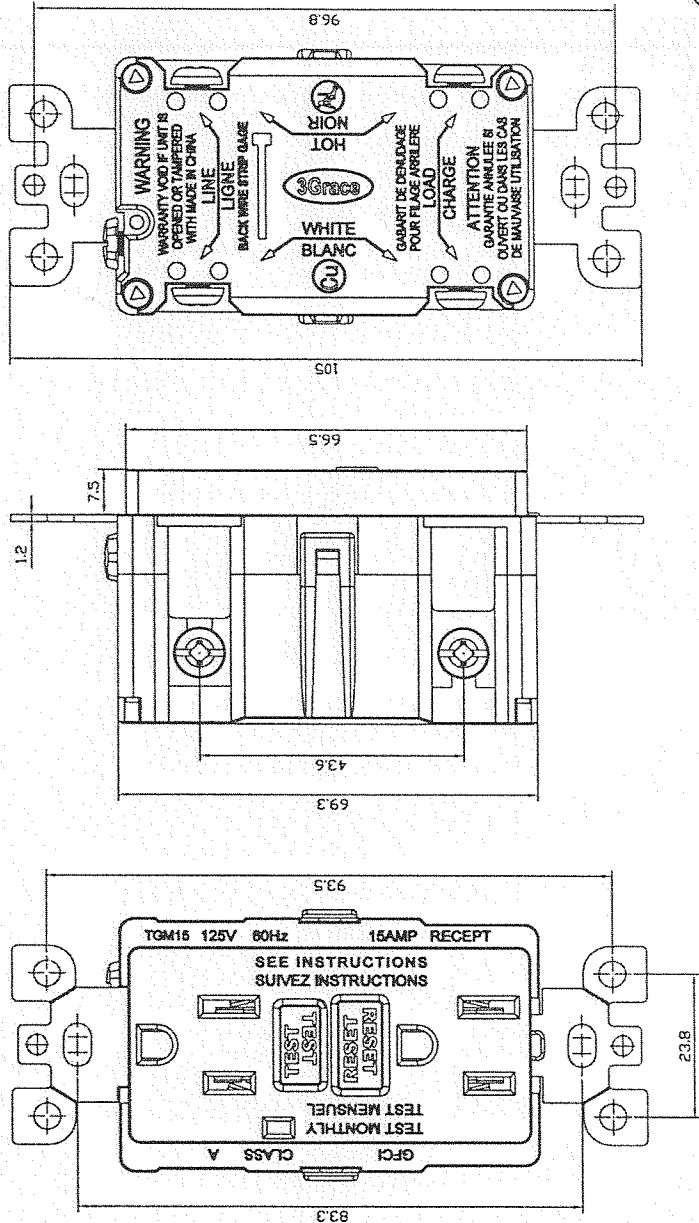
Specifications are subject to change without notice.

Warranty
1 Year

TM3.664.001WX

技术参数

1. 额定电压: 120V/60Hz.
2. 额定电流: 15A.
3. 额定接地故障动作电流: 4~6 (mA).
4. 额定中性接地最大分断时间:
0.025s.
5. 在受到150KHz~230MHz射频干扰时,
GFCI能正常工作.
6. 工作环境: 空气温度-35℃~66℃.



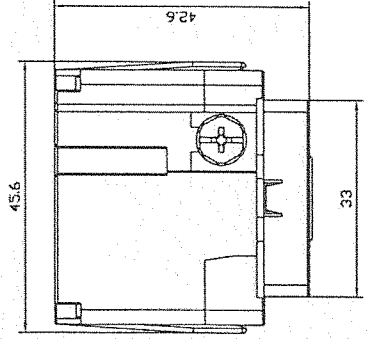
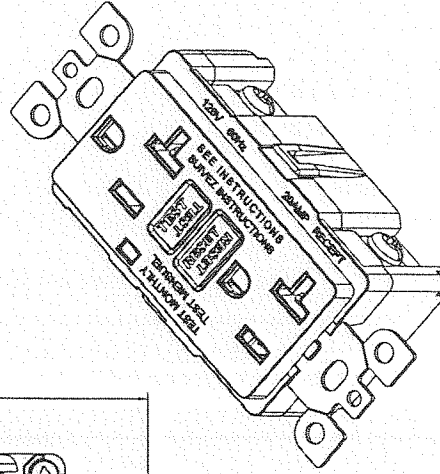
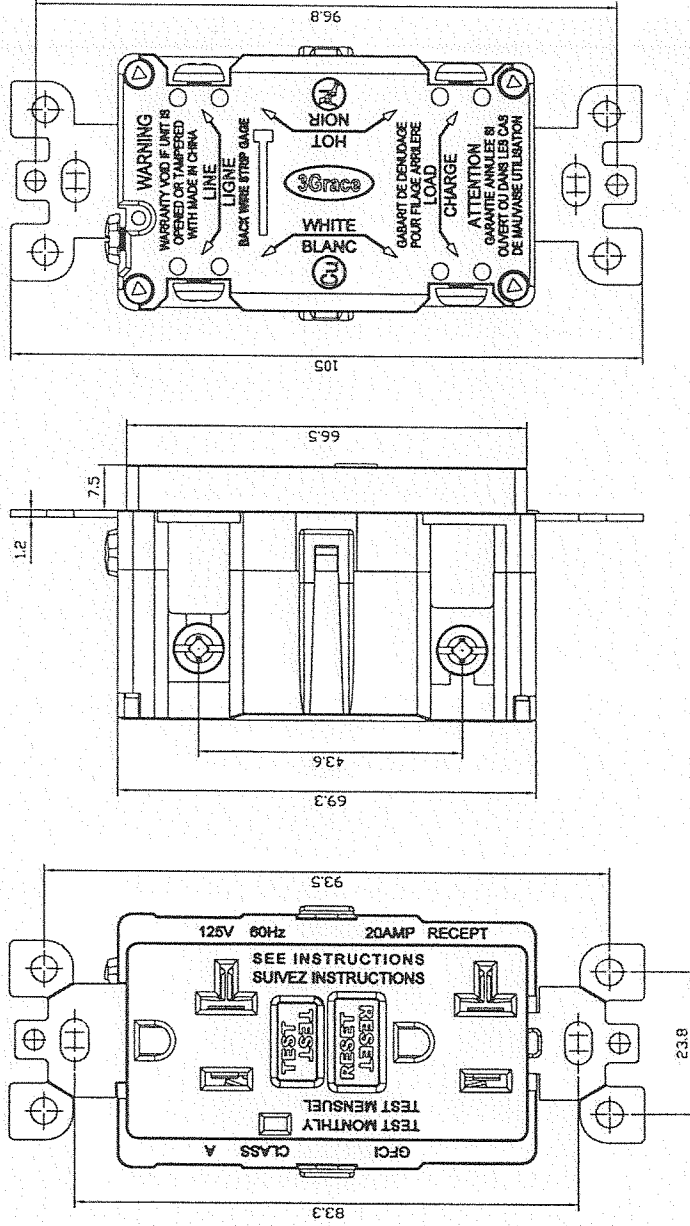
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| 浙江三蒙电气科技 | | TGM15外形图 | | TM3.664.001WX | |
| 图样标记 | 重量 | 比例 | 共1页 | 第1页 | 1:25:1 |
| 设计 | 校对 | 审核 | 批准 | 签字 | 日期 |
| 标区 | 标数 | 标文 | 标号 | 标字 | 标日 |

TM3. 664. 002WX

技术参数

1. 额定电压: 120V/60Hz.
2. 额定电流: 20A.
3. 额定接地故障动作电流: 4~6 (mA).
4. 额定中性接地最大分断时间:
0. 025s.
5. 在受到150KHz~230MHz射频干扰时,
GFCI能正常工作.
6. 工作环境: 空气温度-35℃~66℃.



| | | | |
|----------|-----|-----------------|---------|
| 浙江三蒙电气科技 | | TM3. 664. 002WX | |
| TGM20外形图 | | 比例 | |
| 图样 | 标记 | 重量 | 比例 |
| | | | 1:2.5:1 |
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Item:

TGM15 TGM20

TGMT15 TGMT20

Tamper Resistant & Wether Resistant.

Electrical Specifications

ANSI/NEMA: 5-15R, 5-20R ,WD-6 Dielectric Voltage Withstands
1500V per UL498 Current Interrupting: 10KA/6KV Temperature
Rise Max: 30C after 50 cycles OL at 150 pct rated current

Mechanical Specifications

Terminal ID Brass-Hot, Green-Ground, White-Neutral
Terminal Accommodation: 14-1 2 AWG Product ID
Ratings are permanently marked on device

Material Specifications

Face Material: Polycarbonate Body Material:
Polycarbonate Line Contacts: Brass
Double-Wipe .031 Thick Terminal Screws: Brass
8-32 Grounding Screw: Brass 8-32 Strap:
Zinc-Plated Steel .050 Thick Clamps: Zinc-Plated
Steel Ground Clip: Brass Internal Switch Contacts:
Silver & Tin Alloy Available Colors: White, Almond,
Ivory, Gray, Black,

Environmental Specifications

Flammability Rated: V-2 per UL94
Operating Temperature: -35C to 65C

Performance Data

Trip Level: 5mA plus or minus 1mA

AC Horsepower Ratings

At Rated Voltage 1-1 /2 HP

The end-of-life intellectual montitoring function

If no power output the GFCI reached its end of life.

Standards and Certifications

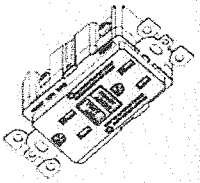
NEMA WD-6 ANSI WD-6 UL 498 File E243553
UL943-2006 requirements Class A File E229322
CSA C22.2 No. 42 File LR-57811 NOM 057

Product Specification

Product code: TS15

Description: 1.5 Amp GFCI with Self-Test Function

Performance Requirements: Contains the required Supervisory Circuit with the Auto-Monitoring Function as noted by UL943, effective June 29, 2015.



| Parameter | Symbol | Condition | Min. | Nom. | Max. | Comments. | Unit |
|--|---------|-----------------|------|-------|------|-----------|------|
| Input Voltage | VAC | | 102 | 120 | 132 | | VAC |
| Frequency | Hz | | / | 60 | / | | Hz |
| Front Receptacle Current | IAC | 120V AC Nominal | / | 15 | / | | A |
| Pass Through Current | IAC | 120V AC Nominal | / | 20 | / | | A |
| Trip Fault Current | IAC | 125V AC | 4 | | 6 | | mA |
| Trip Time | Seconds | | | 0.025 | | | s |
| Auto-Monitoring Function Test Power-up Test Interval | Seconds | | | 1 | | | s |
| Auto-Monitoring Function Test Repeat Test Interval | Minutes | | 1 | 5 | 10 | | m |
| Auto-Monitoring Function Test Detection and EOF LED Flash Rate | Hz | | 0.1 | 1 | 3 | | Hz |

Mechanical Requirements

| Parameter | Symbol | Schollum | Min. | Nom. | Max. | Comments. | Unit |
|-----------|--------|----------|------|-------|------|-----------|------|
| Length | L | / | | 105 | | | mm |
| Width | W | / | | 44.6 | | | mm |
| Height | Hz | / | | 42.6 | | | mm |
| Weight | WT | / | | 123.5 | | | g |

Material Requirements

| Part | Quantity (pcs) | Material/Description |
|------------------------|----------------|-------------------------|
| Front Receptacle color | 1 | White |
| Back enclosure color | 1 | Grey |
| End of life indicator | 1 | High Brightness Red LED |