Single & duplex tamper resistant self-test GFCI receptacles

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

Description

2-pole, 3-wire grounding
15A, 125V/AC
20A, 125V/AC

5-15R   5-20R   **TR** TAMPER RESISTANT

Design features

- Provides compliance with 2014 NEC Article 406.12
- Durable impact-resistant thermoplastic face and back body is virtually unbreakable
- "TR" designation provides visual identification that device has tamper resistant shutters preventing the insertion of foreign objects
- Terminal screws are backed out and ready to wire
- Extra-long and extra-wide mounting straps
- Patented built-in wire stripper for #14 and #12 wire (#12 and #10 for TR817, TR877, 9508TR, 9507TR, TR6350, TR6350) to speed installation
- Side-wire terminals accept up to #10 solid or stranded wire
- Push-in terminals accept #14 solid wire (TR270, TR1107 & 9500TR duplex devices only)

TR270

TR6352

TR1107

TRSGF15

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Table 1. Residential grade, single & duplex

Catalog no.	Description	Rating A	V/AC	NEMA	Color suffix
☐ TR270__	Duplex receptacle	15	125	5-15R	A, B, BK, LA, V, W
☐ TR270-9__	Duplex receptacle, auto grounding	15	125	5-15R	A, B, LA, V, W
☐ TR1107__	Decorator duplex receptacle	15	125	5-15R	A, B, GY, LA, V, W
☐ TR1107-9__	Decorator duplex receptacle, auto grounding	15	125	5-15R	A, BK, LA, V, W
☐ 9505TR__	Aspire duplex receptacle	15	125	5-15R	DS, SG, WS
☐ 9507TR__	Aspire single receptacle	15	125	5-15R	DS, SG, WS
☐ 9508TR__	Aspire single receptacle	20	125	5-20R	DS, SG, WS
☐ 9510TR__	Aspire duplex receptacle	20	125	5-20R	DS, SG, WS

Table 2. Commercial grade, single & duplex

Catalog no.	Description	Rating A	V/AC	NEMA	Color suffix
☐ TR817__	Single receptacle	15	125	5-15R	A, B, BK, GY, LA, V, W
☐ TRBR15__	Duplex receptacle	15	125	5-15R	A, B, BK, GY, LA, V, W
☐ TR6250__	Decorator single receptacle	15	125	5-15R	A, B, BK, GY, LA, V, W
☐ TR6252__	Decorator duplex receptacle	15	125	5-15R	A, B, BK, GY, LA, V, W
☐ TR1877__	Single receptacle	20	125	5-20R	A, B, BK, LA, V, W
☐ TRBR20__	Duplex receptacle	20	125	5-20R	A, B, BK, GY, LA, RD, V, W
☐ TR6350__	Decorator single receptacle	20	125	5-20R	A, B, BK, GY, LA, V, W
☐ TR6352__	Decorator duplex receptacle	20	125	5-20R	A, B, BK, GY, LA, V, W

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Table 3. Specification grade duplex

Catalog no.	Description	Rating A	V/AC	NEMA	Color suffix
☐ TRSGF15__	Duplex GFCI	15	125	5-15R	A, B, BK, GY, LA, V, W
☐ 9566TRS__	ASPIRE duplex GFCI	15	125	5-15R	DS, SG, WS
☐ TR8200__	Hospital grade duplex receptacle	15	125	5-15R	B, GY, RD, V, W
☐ TRSGFH15__	Tamper resistant hospital grade GFCI	15	125	5-15R	B, GY, V, LA, RD,W
☐ TRSGF20__	Duplex GFCI	20	125	5-20R	A, B, BK, GY, LA, V, W
☐ 9569TRS__	ASPIRE duplex GFCI	20	125	5-20R	DS, SG, WS
☐ TR8300__	Hospital grade duplex receptacle	20	125	5-20R	B, GY, RD, V, W
☐ TRSGFH20__	Tamper resistant hospital grade GFCI	20	125	5-20R	B, GY, V, LA, RD,W

Applications

Tamper resistant receptacles contain a UL listed safety shutter system that prevents the insertion of foreign objects into receptacles. The safety shutters will open only upon insertion of a 2-prong or 3-prong plug. Installing these receptacles ensures compliance with 2014 NEC Article 406.12. Areas of application include: new residential construction; remodel/retrofit residential construction; apartment buildings; condominiums and townhouses; hotels, motels, inns and suites with kitchenettes; retirement communities, nursing homes and assisted living facilities. (Note: 2014 NEC Article 406.12 applies to new construction only).

Table 4. Specifications

Catalog no.	TR270, TR1107, 9500TR series	TR817, TR1877, TRBR TR6200, TR6300 series	TRSGF, 9560TRS series	TR8200, TR8300 series
Receptacle type	**Residential grade duplex & single**	**Commercial grade duplex & single**	**Specification grade duplex GFCI**	**Hospital grade duplex**
Wiring type	Back & side wire 9509TR, 9510TR (except 9507 push & side wire)	Back & side wire (except TR817/TR1877 side wire only)	Back & side wire	Back & side wire
Testing & code compliance	• cULus Listed to UL498, file no. E15058 • UL certified to CSA C22.2, no. 42 • NOM/ANSI certified.	• cULus Listed to UL498, file no. E15058 • UL certified to CSA C22.2, no. 42 • NOM/ANSI certified • TRBR UL verified to Fed. Spec. WC-596G	• cULus Listed to UL498, file no. E60120 • cUL certified to CSA C22.2, no. 42 • Meets all UL943 (GFCI) and UL498 (receptacles) requirements • NOM/ANSI certified.	• Listed to UL498, file no. E140596 • UL verified to Fed. Spec. WC-596 • UL certified to CSA C22.2, no. 42, file no. LR16063.
Environmental specifications	**Flammability:** Meets UL 94 requirements; TR1107, TR270, 9505TR V0 rated; 9507TR, 9508TR, 9510TR V2 rated **Temperature rating:** -TR1107, TR270, 9505TR -20ºC to 60ºC (-4°F to 140°F); 9507TR, 9508TR, 9510TR - 20ºC to 70ºC (-4°F to 158°F)	**Flammability:** Meets UL 94 requirements; V2 rated **Temperature rating:** -20ºC to 70ºC (-4°F to 158°F)	**Flammability:** Meets UL 94 requirements; V2 rated **Temperature rating:** -35ºC to 66ºC (-31°F to 150.8°F)	**Flammability:** Meets UL 94 requirements; V2 rated **Temperature rating:** -40ºC to 60ºC (-40°F to 140°F)
Electrical specifications	**Dielectric voltage:** Withstands 2000V per UL 498 **Current interrupting:** Yes, at full-rated current **Temperature rise:** Max. 30ºC (86°F) after 100 cycles of overload @ 150% of rated current (DC)	**Dielectric voltage:** Withstands 2000V per UL 498 **Current interrupting:** Yes, at full-rated current **Temperature rise:** Standard - max. 30ºC (86°F) after 100 cycles of overload @ 150% of rated current (DC). Fed. Spec. - max. 30ºC (86°F) after 250 cycles of overload @ 200% of rated current (DC)	**Dielectric voltage:** Withstands 2000V per UL 498 **Current interrupting:** Yes, at full-rated current **Temperature rise:** Max. 30ºC (86°F) after 100 cycles of overload @ 150% of rated current (DC)	**Dielectric voltage:** Withstands 2000V per UL 498 **Current interrupting:** Yes, at full-rated current **Temperature rise:** Max. 30ºC (86°F) after 50 cycles of overload at 250% of rated current (DC)
Mechanical specifications	**Terminal accommodation:** #14 - 10 AWG **Voltage ratings:** Permanently marked on device	**Terminal accommodation:** #14 - 10 AWG **Voltage ratings:** Permanently marked on device	**Terminal accommodation:** #14 - 10 AWG **Voltage ratings:** Permanently marked on device	**Terminal accommodation:** #14 - 10 AWG **Voltage ratings:** Permanently marked on device

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Table 5. Materials

Catalog no.	TR270, TR1107, 9500TR series	TR817, TR1877, TRBR TR6200, TR6300 series	TRSGF, 9560TRS series	TR8200, TR8300 series
Receptacle type	**Residential grade duplex & single**	**Commercial grade duplex & single**	**Specification grade duplex GFCI**	**Hospital grade duplex**
Body top & bottom	TR1107, TR270, 9505TR - PVC 9507TR, 9508TR - nylon 9510TR - PVC top, nylon bottom	Thermoplastic, nylon	Top - polypropylene Bottom - thermoplastic, PVC	Thermoplastic, nylon
Strap	Galvanized steel TR1107, TR270, 9505TR Nickel-plated steel 9507TR, 9508TR, 9510TR.	Galvanized steel	Galvanized steel	Brass
Contacts	Brass alloy	Brass alloy	Brass alloy	Nickel-plated brass
Terminal screws	Brass/nickel-plated steel	Brass/nickel-plated steel	Brass/nickel-plated steel	Brass/nickel-plated steel
Terminal clamps	Brass-plated 9507TR, 9508TR; steel 9510TR	Steel (TR817/TR1877 N/A)	Steel brass-plated	Nickel-plated brass

Table 6. GFCI status indicator

Test indicator RED LED	Test indicator AMBER LED	Diagnosis	Color suffix
OFF	OFF	Device is functioning properly OR branch circuit may have no power	Manually depress TEST button to trip device. **Amber** light should come ON • If **Amber** light does <u>not</u> come ON, check if there is power to the branch • If **Amber** light does come ON, manually depress the RESET button to restore power to the device • If GFCI does not reset, replace GFCI • If GFCI does reset, device is functioning properly
OFF	**ON**	Device is in tripped state	Manually depress the RESET button to restore power to the device • If GFCI does not reset, replace GFCI
Blinking	OFF	Device's "end of life" indication OR device is in reset state	Manually depress TEST button to trip device. **Amber** light should come ON • If **Amber** light does <u>not</u> come ON, check if there is power to the branch • If **Amber** light does come ON, manually depress the RESET button to restore power to the device • If it does not reset, and/or the blinking continues, replace GFCI
Blinking	**ON**	Device's "end of life" indication OR device is in tripped state	Manually depress the RESET button to restore power to the device • If it does not reset, and/or the blinking continues, replace GFCI

Table 7. Color ordering information

For ordering devices, include Cat. no. followed by the color code. Decorator series color options: A (Almond), B (Brown), BK (Black), GY (Gray), LA (Light Almond), V (Ivory), W (White) Designer series color options: AW (Alpine White), DS (Desert Sand), SG (Silver Granite), WS (White Satin)

Decorator series color options:

A	B	BK	GY	LA	V	W
Almond	Brown	Black	Gray	Lt. Almond	Ivory	White

Designer series color options:

AW	AW	DS	DS	SG	SG	WS	WS
Alpine White		Desert Sand		Silver Granite		White Satin	