



# MicroVersaTrip<sup>®</sup> RMS-9 and Epic MicroVersaTrip<sup>™</sup> Rating Plug

For J/K, Power Break<sup>®</sup> and  
AKR Circuit Breaker Frames

## FUNCTION

The MicroVersaTrip<sup>®</sup> RMS-9 and Epic MicroVersaTrip<sup>™</sup> trip units are designed for use with UL listed field interchangeable rating plugs. These rating plugs serve the function of changing the per unit (100) continuous current rating of a breaker. A circuit breaker frame equipped with a suitable rating plug will have a long time trip value equal to the ampere rating marked on the rating plug.

For example, a breaker frame with a 1200 amp sensor and an 800A rating plug will have an 800 amp continuous current (long-time) rating.

Several rating plugs exist for a particular sensor rating and each rating plug is keyed for a particular sensor rating.

Table 1 outlines all the available rating plugs for the AKR and Power Break<sup>®</sup> families and Table 2 lists all available plugs for the J and K frame breakers.

## FRONT LABEL (FIGURE 1)

The front plate label shown in Figure 1 is visible when the rating plug is installed. The items displayed are as follows:

- |                                |   |
|--------------------------------|---|
| <b>Sensor Rating (S)</b>       | The ampere rating of the corresponding breaker frame  |
| <b>Rating Plug Amperes (X)</b> | The rating plug continuous current rating in amps   |
| <b>Pickup</b>                  | The long-time pickup LED lights (LED) will begin to flash when the breaker approaches 95% of long-time pickup. When the breaker load reaches 100% of the long time pickup, the LED will remain on continuously. |
| <b>Test</b>                    | NOTE: the Pickup light will not come on during a test run with the Test Kit.<br><br>The test jack receptacle is used with Cat. No. TVRMS test kit for overcurrent and ground fault functional testing.          |

## UL LABEL

This label is mounted on the side of the rating plug and is not visible with the rating plug installed. The label lists the breaker frames that will accept that particular rating plug.

## INSTALLATION

Before installing a rating plug into a MicroVersaTrip<sup>®</sup> RMS-9 or Epic MicroVersaTrip<sup>™</sup> trip unit, inspect for physical damage.

Step 1: Verify that the rating plug catalog number matches the desired continuous current rating (X) and the sensor rating (S) shown on the breaker frame.

Step 2: Grasp the rating plug by the thumb and forefinger and push it into the programmer. Proper engagement will be verified by a "click".

DO NOT ATTEMPT TO PUSH THE RATING PLUG INTO THE PROGRAMMER IF RESISTANCE IS FELT. YOU MAY HAVE THE WRONG RATING PLUG FOR THE FRAME/SENSOR RATING. STOP IMMEDIATELY AND VERIFY THAT THE BREAKER SENSOR "S" AND THE RATING PLUG "S" ARE THE SAME VALUE.

## REMOVAL

To remove rating plug, grasp the two ends of the rating plug tabs with two small (1/8" maximum width blade) flat head screwdrivers (see Figures 1 and 2) and gently pry out.

NOTE: PROTECTION TO THE BREAKER IS MAINTAINED AT A MUCH LOWER RATING (25% OF SENSOR RATING) WHEN THE RATING PLUG IS PULLED OUT. If the breaker is carrying more than 25% of the sensor rating load current when the rating plug is removed, the breaker may trip.

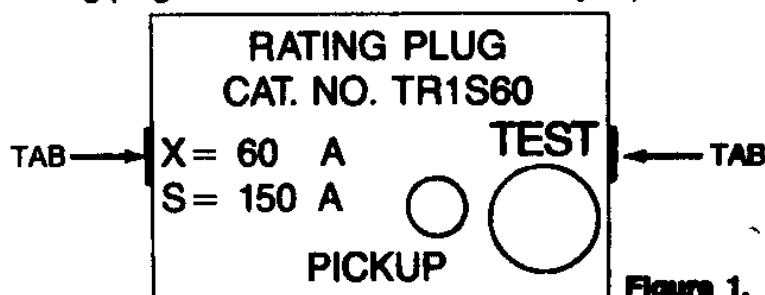


Figure 1.

GENERAL  ELECTRIC

**Table 1**  
Available Rating Plugs for GE Type AKR  
and Power Break® Frames

RATING PLUG CAT. NO.	SENSOR RATING (AMPERES)	RATING PLUG RATING (AMPERES)	BREAKER FRAMES
TR1S80, TR1S80, TR1S100, TR1S125, TR1S150	150	60 80 100 125 150	AKR30S, AKR30H
TR2S100, TR2S150, TR2S200	200	100 150 200	TP82
TR4S150, TR4S200, TR4S225, TR4S250, TR4S300, TR4S400	400	150 200 225 250 300 400	TP84, AKR30H, AKR30S
TR8S300, TR8S400, TR8S500, TR8S600, TR8S700, TR8S800	800	300 400 500 600 700 800	TP88, AKR30S, AKR30H, AKR50, AKR50H
TR10S400, TR10S600, TR10S800, TR10S1000	1000	400 600 800 1000	TP1610, TP2510
TR16S600, TR16S800, TR16S1000, TR16S1200, TR16S1600	1600	600 800 1000 1200 1600	AKR50, AKR50H, TP1616
TR20S750, TR20S800, TR20S1000, TR20S1200, TR20S1600, TR20S2000	2000	750 800 1000 1200 1600 2000	TP2020, TP2520, AKRT50H
TR25S1600, TR25S2000, TR25S2500	2500	1600 2000 2500	TP2525
TR30S2000, TR30S2500, TR30S3000	3000	2000 2500 3000	TP3030
TR32S1200, TR32S1600, TR32S2400, TR32S3200	3200	1200 1600 2400 3200	AKR75
TR40S1600, TR40S2000, TR40S2500, TR40S3000, TR40S4000	4000	1600 2000 2500 3000 4000	AKR100, TP4040

NOTE: TP (stationary) frames shown are also available as TC (draw-out), THP (Hi-Break), and THC (Hi-Break® draw-out) i.e., rating plug TR2S100 is suitable for TP82, THP82, TC82, and THC82 frames.

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These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to GE.

GEH-5371B 0867 PSA

**Table 2**  
Available Rating Plugs for  
J and K Frames

RATING PLUG CAT. NO.	SENSOR RATING (AMPERES)	RATING PLUG RATING (AMPERES)	BREAKER FRAMES
TR1S80J, TR1S80J, TR1S100J, TR1S125J, TR1S150J	150	60 80 100 125 150	TJH1S,SS, TJL1S,SS
TR3S150J, TR3S200J, TR3S225J, TR3S250J, TR3S300J	300	150 200 225 250 300	TJH3S,SS, TJL3S,SS
TR4S150J, TR4S200J, TR4S225J, TR4S250J, TR4S300J, TR4S400J	400	150 200 225 250 300 400	TJH4S,SS, TJL4S,SS
TR6S300J, TR6S400J, TR6S450J, TR6S500J, TR6S600J	600	300 400 450 500 600	TJH6S,SS, TJL6S,SS
TR8S300K, TR8S400K, TR8S500K, TR8S600K, TR8S700K, TR8S800K	800	300 400 500 600 700 800	TKH8S,SS, TKL8S,SS
TR12S600K, TR12S800K, TR12S1000K, TR12S1200K	1200	600 800 1000 1200	TKH12S,SS, TKL12S,SS

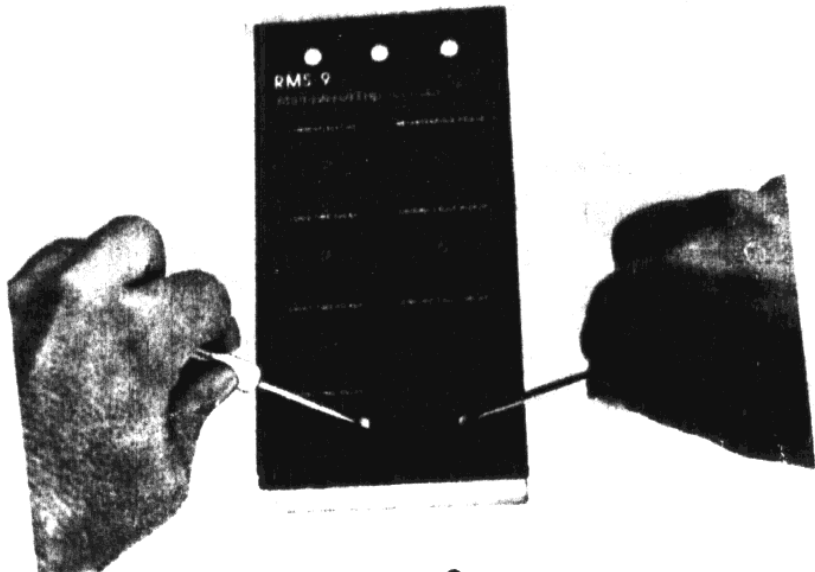


Figure 2.

For further information, call or write your local GE sales office, or:  
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Plainville, Connecticut 06062

Outside the US and Canada, write:  
GE Construction Equipment Export Operation  
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