



Spectra RMS™ Molded Case Circuit Breakers

Rating Plug

FUNCTION

Spectra RMS™ circuit breaker frames are designed for use with UL listed field interchangeable rating plugs. These rating plugs are directly analogous to the interchangeable trip unit employed with thermal-magnetic designs. They serve the function of changing the per unit (1X) 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.

Spectra RMS™ motor circuit protectors use these rating plugs to change the adjustable instantaneous/tracking short-time pick-up values. They do *not* provide any low level overcurrent protection.

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 and may be cabled or bussed to the rating plug ampere rating. Several rating plugs exist for a particular sensor rating and each rating plug is keyed to fit a particular circuit breaker frame and sensor rating.

Table 1 outlines all the available rating plugs for the E, F, G 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:

Ampere Rating—The rating plug current rating in amperes.

Type—Identifies the Spectra RMS™ circuit breaker frame for which the rating plug is suitable.

Inst. Adj. Range—The value of short circuit current ($\pm 20\%$) which will cause the breaker to trip instantaneously, adjustable in discrete steps from LO to HI.

UL LABEL (Listing Mark)

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 frame that will accept that particular rating plug.

INSTALLATION

Before installing a rating plug into a Spectra RMS™ circuit breaker frame, inspect for physical damage.

STEP 1:

Verify that the rating plug **type** matches the type on the breaker frame label and that the Ampere Rating matches the desired continuous current rating (X).

STEP 2:

Grasp the rating plug by the thumb and forefinger and push it into the programmer. See Figure 2 for location. 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 rating plug type matches the type shown on the breaker frame label.

REMOVAL

To remove the rating plug it is recommended that a tool be used to minimize the risk of damage. A suitable removal tool is GE Cat. No. TRTOOL (AUGATT114-1 IC remover or equivalent). Squeeze the two rating plug tabs to release the lock and pull firmly upwards while maintaining pressure on the tabs. If no tool is available, grasp the two ends of the rating plug tabs with *two* small (1/8" maximum width blade) flat head screwdrivers and gently pry out.

NOTE: Protection to the breaker is maintained at a much lower rating (10%–50% of sensor rating) when the rating plug is pulled out. If the breaker is carrying more than 10% of the sensor rating load current when the rating plug is removed, the breaker may trip.

TABLE 1

Rating Plug Cat. No.	Sensor Rating (Amperes)	Rating Plug Rating (Amperes)	Circuit Breaker and Instantaneous Only Frames
SRPE7A3 SRPE7A7	7	3 7	SELA (Mag-Break®)
SRPE30A15 SRPE30A20 SRPE30A25 SRPE30A30	30	15 20 25 30	SEDA, SEHA SELA, SEPA
SRPE60A40 SRPE60A50 SRPE60A60	60	40 50 60	SEDA, SEHA SELA, SEPA
SRPE100A70 SRPE100A80 SRPE100A90 SRPE100A100	100	70 80 90 100	SEDA, SEHA SELA, SEPA
SRPE150A110 SRPE150A125 SRPE150A150	150	110 125 150	SEDA, SEHA SELA, SEPA
SRPF250A70 SRPF250A90 SRPF250A100 SRPF250A110 SRPF250A125 SRPF250A150 SRPF250A175 SRPF250A200 SRPF250A225 SRPF250A250	250	70 90 100 110 125 150 175 200 225 250	SFHA, SFLA SFPA

(CONTINUED)

TABLE 1 (CONTINUED)

Rating Plug Cat. No.	Sensor Rating (Amperes)	Rating Plug Rating (Amperes)	Circuit Breaker and Instantaneous Only Frames
SRPG400A125 SRPG400A150 SRPG400A175 SRPG400A200 SRPG400A225 SRPG400A250 SRPG400A300 SRPG400A350 SRPG400A400	400	125 150 175 200 225 250 300 350 400	SGDA, SGHA SGLA, SGPA
SRPG600A250 SRPG600A300 SRPG600A350 SRPG600A400 SRPG600A450 SRPG600A500 SRPG600A600	600	250 300 350 400 450 500 600	SGLA, SGHA SGPA
SRPK800A300 SRPK800A400 SRPK800A500 SRPK800A600 SRPK800A700 SRPK800A800	800	300 400 500 600 700 800	SKHA, SKLA SKPA
SRPK1200A600 SRPK1200A700 SRPK1200A800 SRPK1200A1000 SRPK1200A1200	1200	600 700 800 1000 1200	SKHA, SKLA SKPA

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 the GE Company.

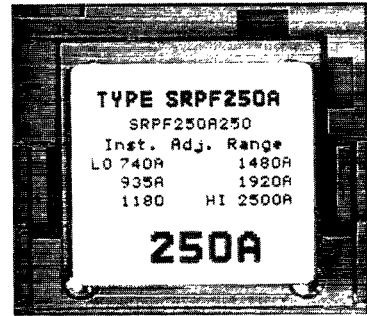


Figure 1

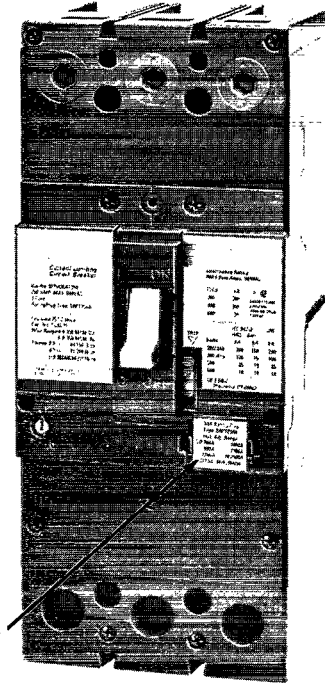


Figure 2



GE Electrical Distribution & Control

General Electric Company
41 Woodford Ave., Plainville, CT 06062