Catalog Number	Sensor Rating, Amps	Plug Rating	Breaker Frames
TR1B60		60	
TR1B80		80	AKR30
TR1B100	150	100	AKR30H
TR1B125		125	Conversion Kits
TR1B150		150	
TR2B100		100	SSD, SSF, SHD, SHF
TR2B150	200	150	TP82, THP82
TR2B200		200	TC82, THC82
TR225B100		100	
TR225B150	225	150	Conversion Kits
TR225B225		225	
TR4B150		150	SSD, SSF, SHD, SHF
TR4B200		200	AKR30, AKR30H
TR4B225	400	225	TP84, THP84
TR4B250		250	TC84, THC84
TR4B300		300	Conversion Kits
TR4B400		400	
TR6B300		300	
TR6B400		400	
TR6B450	600	450	Conversion Kits
TR6B500		500	
TR6B600		600	
TR8B300		300	
TR8B400		400	SSD, SSF, SHD, SHF
TR8B450		450	TP88, THP88
TR8B500	800	500	TC88, THC88
TR8B600		600	AKR30, AKR30H
TR8B700		700	AKR50S, AKR50H
TR8B800		800	
TR10B400		400	SSD, SSF, SHD, SHF
TR10B600		600	TC1610, THC1610
TR10B800	1000	800	TP1610, THP1610
TR10B1000		1000	TC2510, THC2510
			TP2510, THP2510
TR16B600		600	SSD, SSF, SHD, SHF
TR16B800		800	TC1610, THC1610
TR16B1000	1600	1000	AKR50H
TR16B1100		1100	TP1616, THP1616
TR16B1200		1200	Conversion Kits
TR16B1600		1600	
TR20B750		750	SSD, SSF, SHD, SHF
TR20B800		800	TC2020, THC2020
TR20B1000		1000	TC2520, THC2520
TR20B1200	2000	1200	TP2020, THP2020
TR20B1500		1500	TP2520, THP2520
TR20B1600		1600	AKRT50H
TR20B2000		2000	Conversion Kits

Catalog Number	Sensor Rating, Amps	Plug Rating	Breaker Frames
TR25B1600		1600	SSD, SSF, SFB
TR25B2000	2500	2000	SHD, SHF, SHB
TR25B2500		2500	TC2525, THC2525
			TP2525, THP2525
TR30B1200[2]		1200	SSD, SSF, SFB
TR30B1600[2]		1600	SHD, SHF, SHB
TR30B2000	3000	2000	TC3030, THC3030
TR30B2500		2500	TP3030, THP3030
TR30B3000		3000	Conversion Kits
TR32B1200		1200	
TR32B1600	3200	1600	AKR75, AKR75H
TR32B2400		2400	Conversion Kits
TR32B3200		3200	
TR40B1600		1600	SSD, SSF, SHD, SHF
TR40B2000		2000	TC4040, THC4040
TR40B2500	4000	2500	TP4040, THP4040
TR40B3000		3000	AKR100
TR40B3600[1]		3600	Conversion Kits
TR40B4000		4000	
TR50B3200		3200	
TR50B4000	5000	4000	AKR125
TR50B5000		5000	
TRK4B3000		3000	ITE K4000
TRK4B3200	4000	3200	Conversion
TRK4B4000		4000	Kits

[1] Not for use with Type AKR breakers.

[2] Conversion kits only.

Table 1. Rating plug catalog numbers.

Figure 2. Rating Plug removal.

These instructions do not cover all details or variations in equipment nor do they provide for every possible contingency that may be met in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise that are not covered sufficiently for the purchaser's purposes, the matter should be referred to your local GE ED&C Sales Office.

GE Industrial Systems

MicroVersaTrip Plus™ and MicroVersaTrip PM™ Rating Plugs

Power Break® and AKR Circuit Breakers
MicroVersaTrip Plus & PM Conversion Kits

Function

MicroVersaTrip Plus™ and MicroVersaTrip PM™ Trip Units are designed with UL-listed interchangeable Rating Plugs. These Rating Plugs change the per-unit (1X) continuous current rating of the breaker. A circuit breaker frame equipped with a suitable Rating Plug has a long-time trip value equal to the ampere rating marked on the Rating Plug.

For example, a breaker frame with a 1600 A sensor and an 800 A Rating Plug has an 800 A continuous current (long-time) rating.

Several Rating Plugs are available for each sensor rating and each Rating Plug is keyed for a particular sensor rating.

The available Rating Plugs for the AKR and Power Break® families are listed in Table 1.

Front Label

The front label, shown in Figure 1, is visible when the Rating Plug is installed. The items listed are:

|	
Sensor Rating (S)	The ampere rating of the corresponding breaker frame.
Rating Plug Amps (X)	The Rating Plug continuous current in amperes.
Test	The test-jack receptacle is used with Test Kit catalog number TVRMS2 for overcurrent and ground-fault functional testing.
Catalog Number	Follows the format TRppBqqqq, where pp refers to the sensor rating (S) and qqqq refers to the plug rating (X).
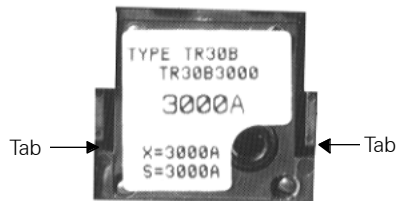
Figure 1. Front of Rating Plug, showing label.

UL Label

The UL label is mounted on the side of the Rating Plug and is not visible when the Rating Plug is installed. The label lists the circuit breaker frames that will accept that Rating Plug.

Installation

Before installing a Rating Plug into a MicroVersaTrip Plus or PM Trip Unit, inspect the plug for damage, then follow these steps:

1. Verify that the Rating Plug catalog number matches the desired continuous current rating (X) and the sensor rating (S) on the breaker frame.
2. Hold the Rating Plug between the thumb and forefinger, then push it into the Trip Unit. Proper engagement is verified by a click.

CAUTION: Do not attempt to push the Rating Plug into the Trip Unit if there is resistance. This may indicate the wrong Rating Plug for the sensor rating. Stop immediately and verify that the breaker sensor rating (S) and the Rating Plug nameplate "S=" value are the same.

Removal

The Rating Plug is seated firmly in the Trip Unit. As illustrated in Figure 1, there are tabs at the sides of the Rating Plug for removal. A Rating Plug Removal Tool, catalog number TRTOOL, also known as an integrated circuit (DIP) extractor, is required to remove the Rating Plug. Grasp the tabs of the Rating Plug with the tool, as illustrated in Figure 2. Be careful to hold the tabs and not the front cover, as the Rating Plug could be damaged otherwise. Gently pry the Rating Plug out by pulling away from the Trip Unit. A left–right wriggling motion assists the removal. Insure that the tabs are held securely until the Rating Plug is completely removed.

NOTE: Protection to the breaker is maintained at only 25% of the sensor rating when the Rating Plug is removed. If the breaker is carrying more than 25% of the sensor load rating, the breaker will trip after the time-delay setting.