

DEH-41318 Installation Instructions

EntelliGuard® TU Rating Plugs

For Power Break®, Power Break® II, AKR, WavePro®, EntelliGuard® G / microEntelliGuard™ Circuit Breakers and Trip Unit Conversion Kits

Function

EntelliGuard TU 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.

The available rating plugs for the AKR, Power Break, WavePro and EntelliGuard families are listed in Table 1. Not all sensors listed in Table 2 are available in all circuit breakers.

Table 1. Rating plug catalog numbers

GTP0060U0101	GTP1100U1225
GTP0080U0101	GTP1200U1232
GTP0100U0103	GTP1500U1640
GTP0125U0103	GTP1600U1640
GTP0150U0104	GTP1900U2050
GTP0200U0204	GTP2000U2050
GTP0225U0306	GTP2200U2550
GTP0250U0407	GTP2400U2564
GTP0300U0408	GTP2500U2564
GTP0350U0408	GTP3000U3064
GTP0400U0410	GTP3200U3264
GTP0450U0612	GTP3600U4064
GTP0500U0613	GTP4000U4064
GTP0600U0616	GTP5000U5064
GTP0700U0816	GTP6000U6064
GTP0750U0820	GTP1600K4040*
GTP0800U0820	GTP2000K4040*
GTP0900U1020	GTP3000K4040*
GTP1000U1025	GTP4000K4040*

* For use with ITE 4000A conversion kits ONLY

Front Label



Figure 1. Front of rating plug, showing label

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

Rating Plug Amps (X) The rating plug continuous current in amperes

Catalog Number GTP1100U1225

In this example:

GTP = EntelliGuard TU trip unit rating plug
1100 = The rating plug continuous current in amperes
U = Universal Trip Plug (Use K for ITE 400A sensor conversion kit)

12 = Smallest sensor that accepts this plug (1200A)

25 = Largest sensor that accepts this plug (2500A)

Table 2. Catalog number sensor rating designations

Sensor Designation	Sensor Rating
01	150A
02	200A
03	225A
04	400A
06	600A
07	630A
08	800A
10	1000A
12	1200A
13	1250A
16	1600A
20	2000A
25	2500A
30	3000A
32	3200A
40	4000A
50	5000A
60	6000A
64	6400A

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 an EntelliGuard TU 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 and is suitable for the circuit breaker's sensor based on the minimum and maximum sensor rating defined on the rating plug's catalog number.
2. Hold the rating plug between the thumb and forefinger, then push it into the trip unit. Proper engagement is verified by an audible and tactile click.

CAUTION: Do not attempt to push the rating plug into the trip unit if there is resistance.

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.



Figure 2. Rating plug removal

NOTE: Protection to the breaker is maintained at the minimum rating plug value for a particular sensor when the rating plug is removed.

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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 the GE Company.

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