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Business Unit ABB Distribution Solutions

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Date 15.03.2018

# Firmware update release 1.1.3 for REC615 / RER615 control and protection relays

## Scope

The firmware update release 1.1.3 is for the following REC615 / RER615 products:

- REC615 IEC&CN version 1.1
- RER615 IEC&CN version 1.1

To verify that the firmware update applies to the protection relay version, ensure that the first and last two characters of the order code on the label on top of the human-machine interface (HMI) match the corresponding characters of the order code in Fig. 1.

```
Hxxxxxxxxxxxxxxxx1F
```

Fig 1. Order code of the REC615 / RER615 control and protection relays

To identify the current firmware revision of the REC615 / RER615 control and protection relay, please follow the pass in the local HMI menu as below:



Fig. 2 Current firmware revision of the REC615/RER615 control and protection relay

# Implemented improvements

This firmware update release includes usability improvements without changing the existing functionality of the product. The following improvements have been implemented:

#### **Protection**

· Improvement to intermittent earth-fault protection function in minimum operate current scaling.

<sup>&</sup>lt;sup>1</sup> The relay firmware update may also include some minor usability improvements not listed in this note.



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## Control

 Improvement to the synchrocheck function for preventing unexpected short-period reset of SYNC\_OK output. The reset could have been seen in some start-up situations with high load currents even when the synchronism conditions were fulfilled and voltages were aligned on both sides of the breaker.

## Communication

IEC 60850-5-104 communication has been improved in case IP address was set to 0.0.0.0.

#### HMI

• Improved Local HMI firmware to avoid some rare HMI freezing in very short and repetitive auxiliary power interruptions.

# **Update procedure**

Firmware updates represent an integral part of ABB's life cycle management of distribution protection and control relays. The updates ensure optimized usability throughout the relay's entire life cycle by offering the latest improvements. The ideal time for a firmware update would be during periodical testing or a maintenance break.

All REC615 / RER615 IEC&CN version 1.1 product deliveries dispatched later than 23<sup>rd</sup> of March 2018, include the stated relay firmware update 1.1.3.

Please note that ABB will not be liable for any direct or indirect costs related to the firmware update procedure. The update procedure shall be performed at the sole responsibility of the possessor of the installed base.