User Guide Setup and Test

RELT Reduced Energy Let Through feature



The following slides provide a step-bystep guide for implementing RELT settings and ensuring proper operation of the RELT function for Emax 2, XT7 and XT5 trip units.



Double click on i button to quickly identify the firmware version.



Before starting please confirm that the trip unit has a black front and is updated with a firmware version 3.10.00 or higher.

Previous firmware versions do not have the RELT activation Wizard functionality described in this document.

Install the RELT Ekip Signalling 2K-3 module in an available slot on the top of the circuit breaker.¹

Provide power to the Ekip Supply module (using 110-240V AC/DC or 24-48Vdc), or directly connect to the secondary terminal using 24Vdc (terminals K1 (+/L) and K2 (-/N).

Check if the module is recognized by the trip unit. If not , you will need to enable the local bus following these steps: (Display -> Settings -> Modules -> Local bus -> ON²).

 ¹ To mount this module on XT5, the DIN rail mountable Ekip cartridge accessory is required.
² By default Local Bus is set to OFF. Please note: version depicted below is a fixed type CB. The same identification is found on an adjustable _____ metal plate just below the secondary disconnect on the cassette.





RELT Ekip Signalling 2k-3 Ekip Supply

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¹ To mount this module on XT5, the DIN rail mountable Ekip cartridge accessory is required. ² By default Local Bus is set to OFF.

RELT configuration

Initial installation on a New Circuit Breaker

Install the RELT Ekip Signalling 2K-3 module in an available slot on the top of the circuit breaker.

Provide power to the Ekip Supply module.

If it is the first time that the circuit breaker is switched ON, a popup for basic settings will appear.

Click on Yes.





Install the RELT Ekip Signalling 2K-3 module in an available slot on the top of the circuit breaker.

Provide power to the Ekip Supply module.

If it is the first time that the circuit breaker is switched ON, a popup for basic settings will appear.

Click on Yes.





RELT Ekip Signalling 2k-3 Ekip Supply

Basic settings include common parameters such as:

- Language
- Date
- Time

Other parameters may also be present depending on the functionality present on the circuit breaker.

The RELT wizard is present on the last page.



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- Language
- Date
- Time

Other parameters may also be present depending on the functionality present on the circuit breaker.

The RELT wizard is present on the last page.

Click Yes



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Basic settings include common parameters such

- Date

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Other parameters may also be present depending on the functionality present on the circuit breaker.

The RELT wizard is present on the last page.

Chose your desired delay for RELT de-activation to give the operator time to leave the circuit breaker's vicinity.¹

¹ The default value is 15 seconds.





Basic settings include common parameters such as:

- Language
- Date
- Time

Other parameters may also be present depending on the functionality present on the circuit breaker.

The RELT wizard is present on the last page.

Chose your desired delay for RELT de-activation.

Click Yes, again.





Well done!

The RELT module is correctly installed and configured.



RELT configuration

Adding the RELT module/functionality on a previously configured circuit breaker

Enter the submenu for the 2I protection by navigating to the advanced menu.

Press the RELT Wizard button for self configuration.

Click Yes.





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Press the RELT Wizard button for self configuration.

Click Yes.





Enter the submenu for the 2I protection by navigating to the advanced menu.

Press the RELT Wizard button for self configuration.

Click Yes.

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Ekip Supply

Enter the submenu for the 2l protection by navigating to the advanced menu.

Press the RELT Wizard button for self configuration.

Click Yes.



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Enter the submenu for the 2l protection by navigating to the advanced menu.

Press the RELT Wizard button for self configuration.

Click Yes.





Enter the submenu for the 2l protection by navigating to the advanced menu.

Press the RELT Wizard button for self configuration.

Click Yes.

Chose your desired delay for RELT de-activation. In this scenario it will recall whatever value has been previously programmed.





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Enter the submenu for the 2l protection by navigating to the advanced menu.

Press the RELT Wizard button for self configuration.

Click Yes.

Chose your desired delay for RELT de-activation. In this scenario it will recall whatever value has been previously programmed.

Click Yes, again.





Well done!

The RELT module is correctly installed and configured.



Input and output testing

Input and output testing

Wire the I31 input of the RELT Ekip Signalling 2K-3 module with a switch of your choice.





Input and output testing

The light of Input I31 should be ON when the switch is closed.

This input activates the 2I protection confirmed by two alarms; text on the touchscreen and an indicator to the right.

Outputs O31 and O32 are used for external indication. When the 2I protection is activated both lights turn ON confirming that the trip unit has received the signal, properly processed the signal and the circuit is in good order.



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Documentation

Documentation 1/2





Emax 2 Installation Manual

LINK



Tmax XT IEC catalogue



Tmax XT IEC Technical Annex





Tmax XT UL catalogue

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Tmax XT UL Technical Annex



Documentation 2/2



RELT switch ABB Pilot Devices

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 Instruction sheet RELT Module
 Application wiring diagram
 RELT Brief Presentation

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