VigiPacT RHB, type B Residual-Current Protection Relays

Functions

The VigiPacT RHB:

- Measures the residual current detected by the toroid.
- Displays the residual current.
- Trips the installation protection circuit breaker through an MN or MX release if the residual current exceeds the threshold I Δ N for a time greater than the delay Δ t.

The relay implements two insulations monitoring thresholds, one corresponding to a pre-alarm and another to an alarm.

Alarm Detection

The alarm threshold I alarm corresponds to an residual current that is dangerous for the installation.

An alarm is active when the measured residual current is greater than the set alarm threshold (I alarm) on toroid for a period of time greater than the set alarm delay (t alarm in milliseconds or seconds).

- When an alarm is active, AL1 and AL2 LEDs are switched on.
- When an alarm is detected, the residual current value in the LCD display blinks.

Pre-Alarm Detection

The pre-alarm threshold I pre-alarm corresponds to an earth leakage level that must be eliminated before being dangerous for the installation.

A pre-alarm is active when the measured residual current is greater than the set pre-alarm threshold for a period of time greater than the set pre-alarm trip delay (t pre-alarm in milliseconds or seconds).

- When a pre-alarm is active, AL1 LED is switched on.
- When a pre-alarm is detected, the residual current value in the LC display blinks.

Time Delays

Ton1 and Ton2 delay the alarm output through LEDs and relays.

- Ton1 time delay is related to pre-alarm
- Ton2 time delay is related to alarm.

RHB Installation

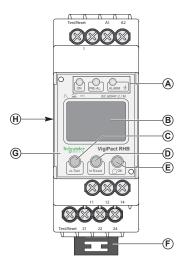
- On a DIN rail (flush mounted or in cublicle)
- Screwed on a plate (with optional kit LV..., sold separately)
- Install the connectors delivered with the RHB.

Compatibility with Toroids

■ VigiPacT RHB relays may only be used with closed toroid (B type).



VigiPacT RHB

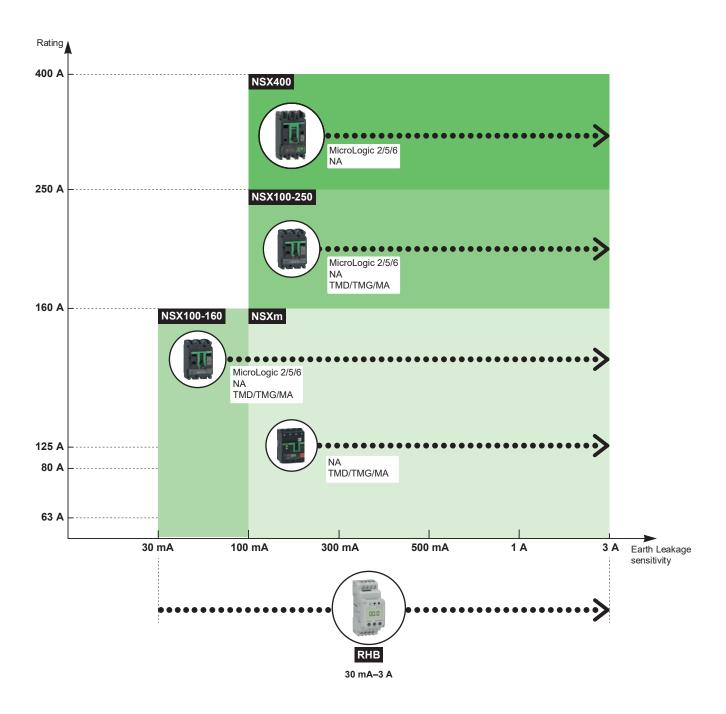


- A Status LEDs: On, Pre-alarm, Alarm
- **B** Multifunctional LCD display
- C Test/UP button
- D Reset/DOWN button
- E MENU/OK button
- F DIN clip
- G Lead-seal cover
- H QR code to access device information
- I Socket for toroid connection with the wiring kit



B type active closed toroid

Tested ComPacT NSX/NSXm & VigiPacT RHB combinations



Please see further information in our VigiPacT catalogue.