

Current and voltage monitoring relays, single phase

Benefits and advantages

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Characteristics current monitoring relays

- Monitoring of DC and AC currents: 3 mA to 15 A ¹⁾
- TRMS measuring principle
- One device includes 3 measuring ranges
- Over- and undercurrent monitoring¹⁾
- ON or OFF delay configurable¹⁾
- Open- or closed circuit principle configurable¹⁾
- Latching function configurable¹⁾
- Thresholds for >I and/or <I adjustable¹⁾
- Fixed hysteresis of 5 %¹⁾
- Start-up delay T_v adjustable 0; 0.1 - 30 s¹⁾
- Tripping delay T_v adjustable 0; 0.1 - 30 s¹⁾
- 1 x 2 c/o contacts (common signal) or 2 x 1 c/o contact (separate signals for >I and <I) configurable¹⁾
- 22.5 mm width
- 3 LED's for status indication

¹⁾ depending on device

Characteristics voltage monitoring relays

- Monitoring of DC and AC voltages from 3 - 600 V
- TRMS measuring principle
- One device includes 4 measuring ranges: 3 - 30 V; 6 - 60 V; 30 - 300 V; 60 - 600 V
- Over- and undervoltage monitoring¹⁾
- ON or OFF delay configurable¹⁾
- Open- or closed circuit principle configurable¹⁾
- Latching function configurable¹⁾
- Threshold values for >U and/or <U adjustable¹⁾
- Fixed hysteresis of 5 %¹⁾
- Start-up delay T_v adjustable 0; 0.1 - 30 s¹⁾
- Tripping delay T_v adjustable 0; 0.1 - 30 s¹⁾
- 1 x 2 c/o contacts (common signal) or 2 x 1 c/o contact (separate signals for >U and <U) configurable¹⁾
- 22.5 mm width
- 3 LED's for status indication

Current monitoring, single-phase

The ABB current monitoring relays CM-SRS.xx reliably monitor the occurrence of currents that exceed or fall below the selected threshold value. The functions overcurrent or undercurrent monitoring can be pre-selected. Single- and multifunction devices for the monitoring of direct or alternating currents from 3 mA to 15 A are available.

Current window monitoring (I_{min} , I_{max})

The window monitoring relay CM-SFS.2x is available if the application requires the simultaneous monitoring of over- and undercurrents.

Voltage monitoring, single-phase

The ABB voltage monitoring relays CM-SRS.xx are used to monitor direct and alternating voltages within a range of 3-600 V. Over- or undervoltage detection can be preselected.

Voltage window monitoring (U_{min} , U_{max})

For the simultaneous detection of over- and undervoltages, the window monitoring relay CM-EFS.2 can be used.

Measuring & monitoring relays

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