

Equipment and system safety through network monitoring New monitoring relays CM-SRS, CM-SFS and CM-ESS, CM-EFS for single-phase current and voltage monitoring

Each electrical load only permits current and voltage values within a certain tolerance range. If the limits are underrun or exceeded, safe operation of equipment and systems is often no longer ensured. With overvoltage heating takes place on the loads causing equipment damage or failure. With undervoltage there is the risk of undefined operating states in which some parts of the system still function, but others do not. Such faulty operation can lead to damage to the system. For this reason, current and voltage values in the network should be continually monitored, so that in the case of a fault, appropriate protective measures can be initiated.

With the new single-phase monitors in the CM-SRS, CM-SFS and CM-ESS, CM-EFS range, ABB is offering a selection of high performance devices with compact dimensions (only 22.5 mm installation width) for current and voltage monitoring in single-phase direct and alternating current networks. The new product range includes current and voltage monitoring relays with graded functionality. For example, there are devices available with one or two output relays, with measuring ranges up to 15 A and 600 V and with extensive parameterising of the functionality. Current and voltage monitoring relays which cover all common applications with reliable monitoring.

Characteristics of the ABB single-phase monitoring relays

- Multifunctional and single-functional devices
- Devices with 1 or 2 c/o contacts
- Measuring range up to 15 A / 600 V AC/DC
- Configurable monitoring of falling below or exceeding threshold values; or window monitoring*
- Open- or closed-circuit principle selectable*
- Adjustable ON or OFF-tripping delay (0; 0.1 - 30 s)*
- Adjustable start-up delay (0; 0.1 - 30 s)*
- Adjustable switching hysteresis 3 - 30 %*
- Single or wide-range supply voltage
- LEDs for status indication
- Adjustment of threshold values, switching hysteresis and times via direct reading scales
- Setting and operation via front-face operating controls
- Configurable latching function*
- 2 c/o contact devices, multifunction and window monitoring relays feature RMS measuring principle (any wave form)
- 1 c/o contact devices feature integration measuring principle

You can obtain further information from:

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