

SPR10 T- Smart Protection Relay Switching and protecting with a single device



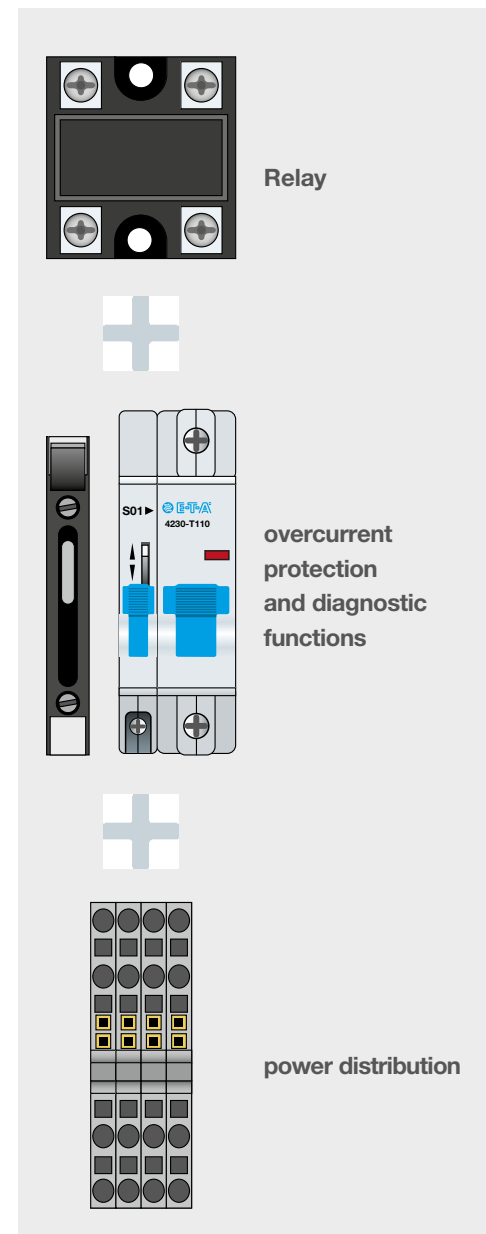
SPR10 T– Smart Protection Relay

A space-saving combination of switching and protecting

The **SPR10-T** extends the product group of solid state remote power controllers and was designed for DC 12 V and DC 24 V applications. Unlike conventional relays the **SPR10-T** offers overcurrent

protection as an integral feature. In addition, it indicates trippings not only via LED, but at the same time via a status output for further processing. Direct rail mounting allows quick and flexible

installation. In addition, the **SPR10-T** features integral power distribution. Wiring efforts are reduced to a minimum.



4 in 1

- Relay
- Overcurrent protection
- Diagnosis
- Power distribution

Applications in the following industries

- Automation
- Car production
- Machine construction
- Utility vehicles
- Steel industry

SPR10-T – Smart Protection Relay

With integral power distribution and diagnostic functions

By means of a control input, the **SPR10-T** can selectively be switched on or off and it can be reset after tripping. At a voltage between 8.5 V and 32 V at the control input, the load output connects through. At a control voltage of less than 5 V, the load output is blocked. Thus the device can provide various relay functions at a switching delay of only 1.5 ms. In the event of an overload, the electronic overcurrent protection intervenes. It will disconnect the faulty path within 30 ms at a 1.3 times rated current and higher. All

other circuits remain unaffected. This ensures systematic trouble-shooting.

In addition to the electronic trip curve, the **SPR10-T** has an integral blade fuse fitted. The fuse ensures physical isolation in a worst case scenario. All loads are reliably protected even in the event of extreme overcurrents.

With current ratings of 20 A and 25 A, the **SPR10-T** is perfectly suitable for powerful loads with a high current demand in the

DC 12 V and DC 24 V range. Despite its slim design of only 12.5 mm width, it accommodates cable cross sections of up to 10 mm² with wire end ferrules both for power input (UB), load for output (L+) and load return (0 V). The integral power distribution and the available busbars allow the **SPR10-T** to be used as a power distribution system.

Technical data

Rated voltage	DC 12 V/DC 24 V
Current ratings	20 A, 25 A
Operating voltage	DC 9 V ... 32 V
ON delay	1.5 ms
OFF delay	0.5 ms
Trip	at 1.3 x I _N
Trip time	typically 30 ms
Ambient temperature	-25 °C ... +60 °C
Cable cross section	max. 16 mm ²

Your benefits

- **Space-savings up to 70 %** by combining several components a single device
- **Reduced planning and wiring time** due to integral overcurrent protection
- **Enhances machine uptime** through clear failure detection and stable voltage supply



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