

# Solid State Remote Power Controller E-1048-S7.. Protection, Switching and Monitoring of DC 24 V Systems



# Technical information

## Solid State Remote Power Controller E-1048-S7..

The solid state remote power controller E-1048-S7.. combines relay function, overcurrent protection and diagnostic functions. It has been designed for the connection to PLC outputs customary in the industry. The E-1048-S7.. protects the connected loads and lines against the consequences of overload and short circuit. Besides a switching function typical of a relay, the E-1048-S7.. is also suitable as a coupling relay for monitoring

the circuit with regard to wire break. The devices are operated on a power distribution module 17plus and they also fit into the smart power distribution system SVS16. The E-1048-S7.. easily allows control, protection and load circuit diagnosis and offers reduced wiring efforts.

**Protection, Switching and Monitoring  
3 functions = 1 component**

### Features

- 1 component / 3 functions:  
Protection, Switching and Monitoring
- Best possible load protection
- Ambient temperatures up to 60 °C, no derating
- Remotely controllable
- Plug-in design suitable for
  - power distribution module 17 plus
  - power distribution system SVS16

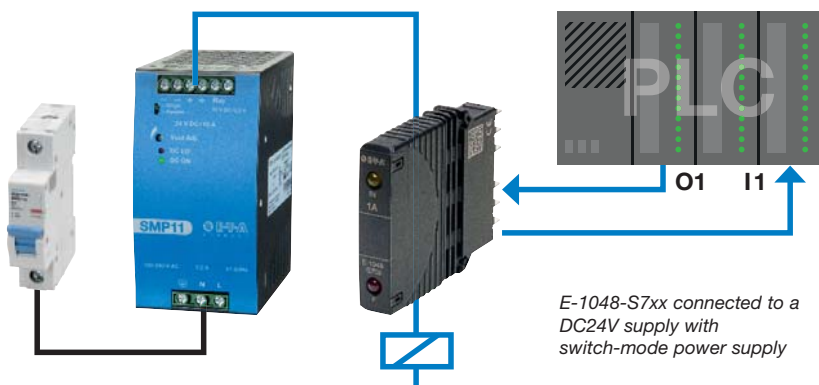
### Technical data

Operating voltage $U_B$	DC 24 V (18...32 V)
Current ratings $I_N$	1 A, 2 A, 4 A, 5 A
Voltage drop	< 0.1 V
Overload disconnection	typically 1.5 x $I_N$
Trip times	max. 200 ms
Switching frequency	max. 100 Hz
Signalling	relay contact N/O (failure indication – wire break, overload, short circuit)
Temperature range	0...60 °C
Mounting method	pluggable into Module 17plus or SVSxx

### Benefits

- **Increases machine run times** through detection of errors and their diagnosis
- **Reduces components** by offering 3 functions in a single unit
- **Saves space** through compact design, one device for 3 functions
- **Saves time** as it requires less wiring time
- **Saves costs** as it helps reducing single components

### Application example



*E-1048-S7xx connected to a DC24V supply with switch-mode power supply*



*Three functions - one component: the E-1048-S7xx made by E-T-A provides protection, switching and monitoring.*



*The power distribution module 17plus or the power distribution system SVS16 additionally help minimising wiring time.*



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