

E-T-A Smart Power Relay E-1048-S6xx

For switching, protecting and monitoring 24 V DC systems



Technical information

E-T-A Smart Power Relay E-1048-S6xx

Looking for a practical solution for reliable switching and protection plus monitoring of PLC-controlled loads in DC 24 V systems? The E-T-A Smart Power Relay E-1048-S6xx is ideally suited to use with resistive, inductive and lamp loads and combines various functions such as detection of overload, short circuit and wire break all in a single unit helping prevent costly catastrophic damages or system downtimes. As a purely electronic coupling relay the E-1048-S6xx is only

12.5 mm wide, features wear-free operation and perfectly fits into the E-T-A terminal block type 17-P10-Si for rail mounting. The E-1048-S6 is available in current ratings from 0.5 through 4 A. Remote ON or OFF operation is optionally available as well as various types of status indication (visual and electronic). The combination of several functions in a single unit helps reduce termination spots, wiring time and minimizes potential malfunction sources.

Technical Data

Load circuit

Operating voltage	DC 24 V (18...36 V)
Current ratings	0.5 A/1 A/2 A/4 A
Voltage drop	0.15 V/0.3 V/ 0.1 V/0.2 V
Overload disconnection	approx. 1.5 (\pm 0.3) times rated current after approx. 100 ms
Short circuit disconnection delay	< 250 μ s

Control circuit

Operating voltage	DC 24 V
Input	0...5 V DC: load circuit OFF 8.5...36 V DC: load circuit ON
Input current	1...10 mA (8.5 V...36 V)
Max. switching frequency	500 Hz

Fault indication output F	output F+/F- conductive (opto coupler) - in the event of wire break in the load circuit - after short circuit/overload disconnection
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General

Temperature range	0 °C...60 °C
Blade terminals	6.3 x 0.8 mm
Mounting	on E-T-A socket type 17-P10-Si



The E-1048-S6xx offers 3 functions in a single unit: electronic relay, electronic overcurrent protection, diagnostic functions.

Features and benefits

- 3 functions in a single unit:
 - electronic relay
 - electronic overcurrent protection
 - status indication and diagnostic functions
- Remote ON and OFF control
- CE logo in accordance with EMC directive
- Ease of mounting with socket type 17-P10-Si



E-T-A Elektrotechnische Apparate GmbH
Industriestraße 2-8 · 90518 ALTDORF
GERMANY
Phone +49 09187 10-0 · Fax +49 09187 10-397
E-Mail: info@e-t-a.de · www.e-t-a.com/e