

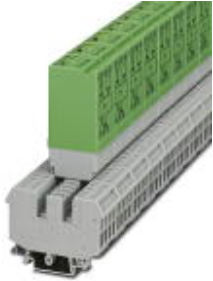


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Especialistas en Automatización

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Solid-state relays - ST-OV4- 24DC/ 24DC/1-PRO - 2905572

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Plug-in power protective circuit solid-state relay, with signal logic, can be plugged into 4-pos. basic terminal blocks, input: 24 V DC, output: short-circuit-proof, 18 - 36 V DC/1 A

Why buy this product

- Reliable detection and indication of an open circuit on the load side
- Time-dependent overload shutdown for reliable protection against continuous overloads
- Fast short circuit shutdown with simultaneous current limitation
- Feedback in the event of an error
- Brief inrush peaks are ignored
- After an overload or short-circuit has been triggered, a defined reset of the control voltage must be carried out



Key Commercial Data

Packing unit	10 STK
GTIN	 4 017918 107604

Technical data

Dimensions

Width	27 mm
Height	63.5 mm
Depth	114 mm

Ambient conditions

Ambient temperature (operation)	0 °C ... 60 °C
Ambient temperature (storage/transport)	0 °C ... 70 °C

Input data

Nominal input voltage U_N	24 V DC \pm 50%
Switching threshold "0" signal, voltage	5 V DC
Switching threshold "1" signal voltage	8.5 V DC

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Technical data

Input data

Typical input current at U_N	6.5 mA
Typical response time	300 μ s
Typical turn-off time	700 μ s
Status display	Yellow LED
Operating voltage display	Yellow LED
Type of protection	Protection against polarity reversal
Protective circuit/component	Polarity protection diode
Transmission frequency	100 Hz

Output data

Output voltage range	18 V DC ... 36 V DC
Limiting continuous current	1 A (see derating curve)
Min. load current	1 mA
Current limitation at short-circuits	approx. 25 A
Voltage drop at max. limiting continuous current	300 mV
Output circuit	3-conductor, ground-referenced
Indication	Red LED
Type of protection	Protection against polarity reversal
	Free-wheeling diode
Protective circuit/component	Damping diode
Output voltage range	5 V DC ... 36 V DC
Limiting continuous current	50 mA
Voltage drop at max. limiting continuous current	\leq 1.5 V
Output circuit	2-wire, floating
Type of protection	Protection against polarity reversal
Protective circuit/component	Polarity protection diode

General

Test voltage input/output	2.5 kV AC
Test voltage output/output	2.5 kV AC
Mounting position	any
Assembly instructions	In rows with zero spacing
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage/insulation	Basic insulation

Standards and Regulations

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	EN 50178
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Rated surge voltage/insulation	Basic insulation

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Classifications

eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27371014

ETIM

ETIM 2.0	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC001504
ETIM 5.0	EC002055

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121542
UNSPSC 11	39121542
UNSPSC 12.01	39121542
UNSPSC 13.2	39121542

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approvals submitted

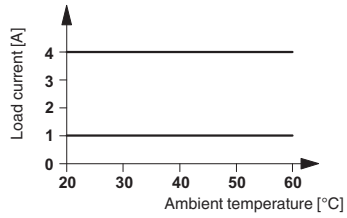
Approval details

EAC

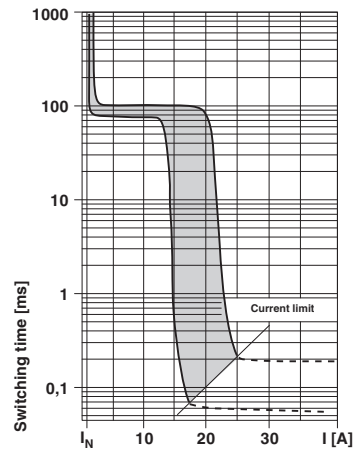
Drawings

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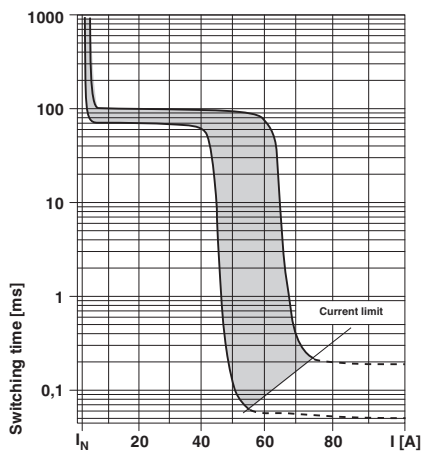
Diagram



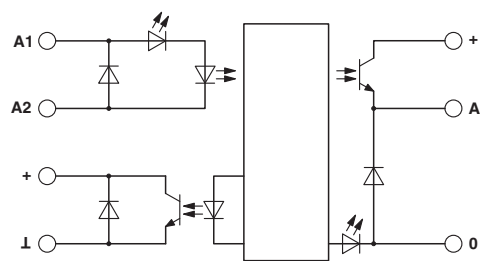
Diagram



Diagram



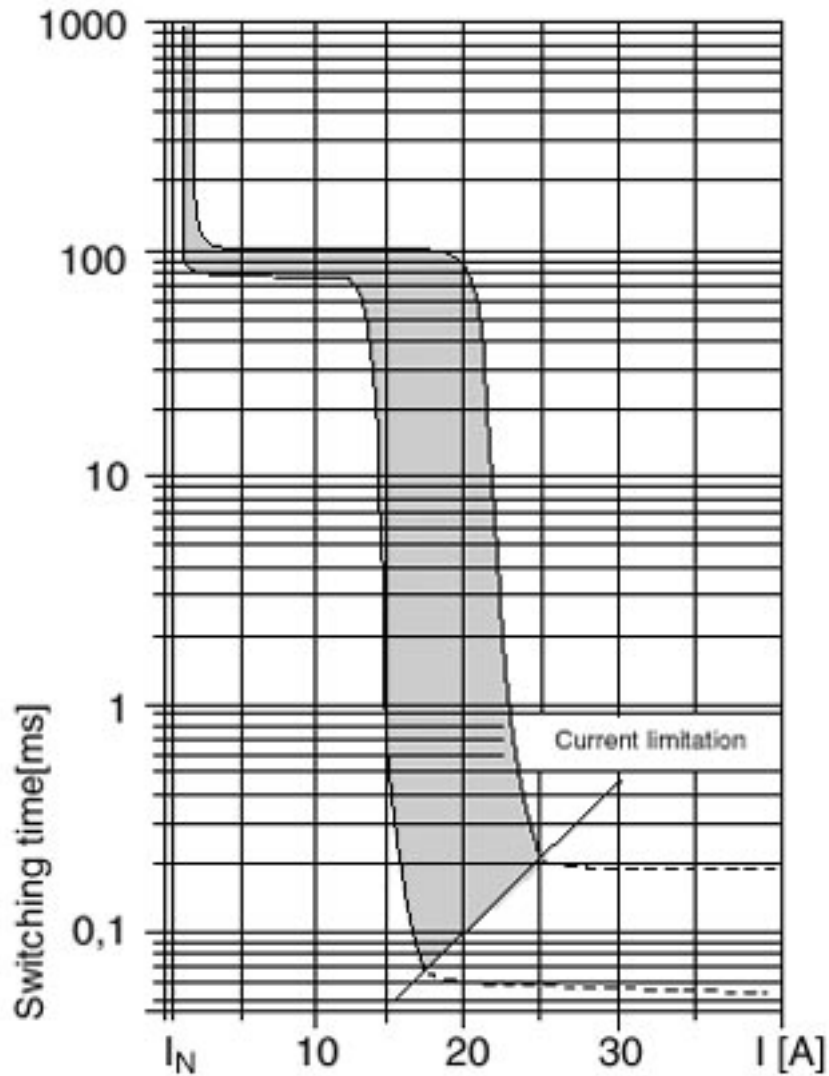
Circuit diagram



1 = protection and signal logic

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Diagram



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Product	Code	Reference	Product link
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