

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

Your advantages

- ✓ 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 pc
GTIN	
GTIN	4017918107604

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
Input voltage range in reference to U_N	0.5 ... 1.5

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Input data

Input voltage range	12 V DC ... 36 V DC
Switching threshold "0" signal, voltage	5 V DC
Switching threshold "1" signal voltage	8.5 V DC
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	Reverse polarity protection
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	Reverse polarity protection
	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	≤ 1.5 V
Output circuit	2-wire, floating
Type of protection	Reverse polarity protection
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

Standards and Regulations

Standards/regulations	IEC 60664
	EN 50178
Insulation	Basic insulation

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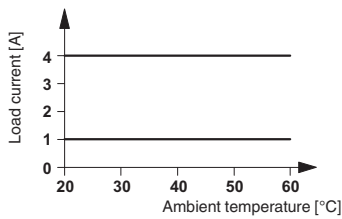
Technical data

Environmental Product Compliance

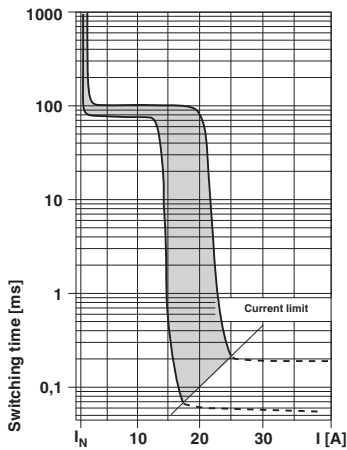
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

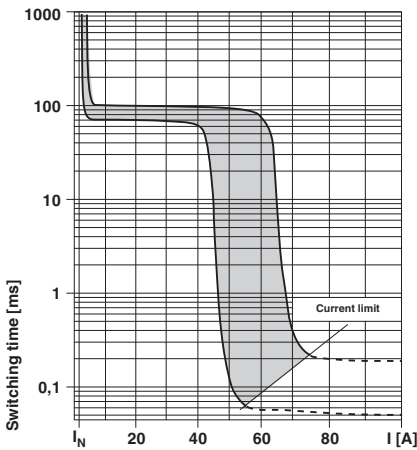
Diagram



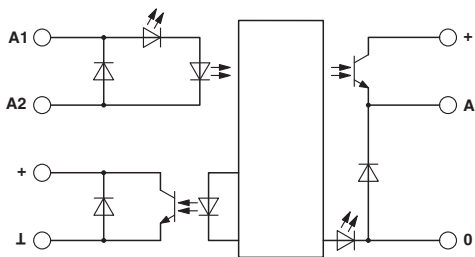
Diagram



Diagram



Circuit diagram



1 = protection and signal logic

Approvals

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EAC

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Approvals

Ex Approvals

Approval details

EAC



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