

Solid-state relays - ST-OV3-120AC/220DC/1 - 2903163

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Plug-in power solid-state relay, with LED and protective circuit in input and output circuits, input: 120 V AC, output: 15 - 220 V DC/max. 1 A, can be plugged into basic terminal blocks

The illustration shows version ST-OV
3- 5 DC/220 DC/1



Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 078959
Weight per Piece (excluding packing)	58.58 g
Custom tariff number	85364900
Country of origin	Germany

Technical data

Dimensions

Width	20.8 mm
Height	33 mm
Depth	66.5 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Input data

Nominal input voltage U_N	120 V AC ± 20 %
Switching threshold "0" signal, voltage	≤ 10.5 V
Switching threshold "1" signal voltage	≥ 29 V
Typical input current at U_N	5 mA

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Technical data

Input data

Typical response time	4 ms
Typical turn-off time	35 ms
Transmission frequency	10 Hz

Output data

Output voltage range	15 V DC ... 220 V DC
Limiting continuous current	1 A (see derating curve)
Surge current	2 A (t = 1 s)
Peak offstate voltage	220 V DC (Collector-emitter reverse voltage)
Voltage drop at max. limiting continuous current	1.2 V
Output circuit	2-wire, floating
Type of protection	Reverse polarity protection
	Surge protection
Protective circuit/component	Polarity protection diode

General

Test voltage input/output	2.5 kV AC
Mounting position	any
Standards/regulations	DIN VDE 0110

Standards and Regulations

Standards/regulations	DIN VDE 0110
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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	27371604

ETIM

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



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Classifications

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

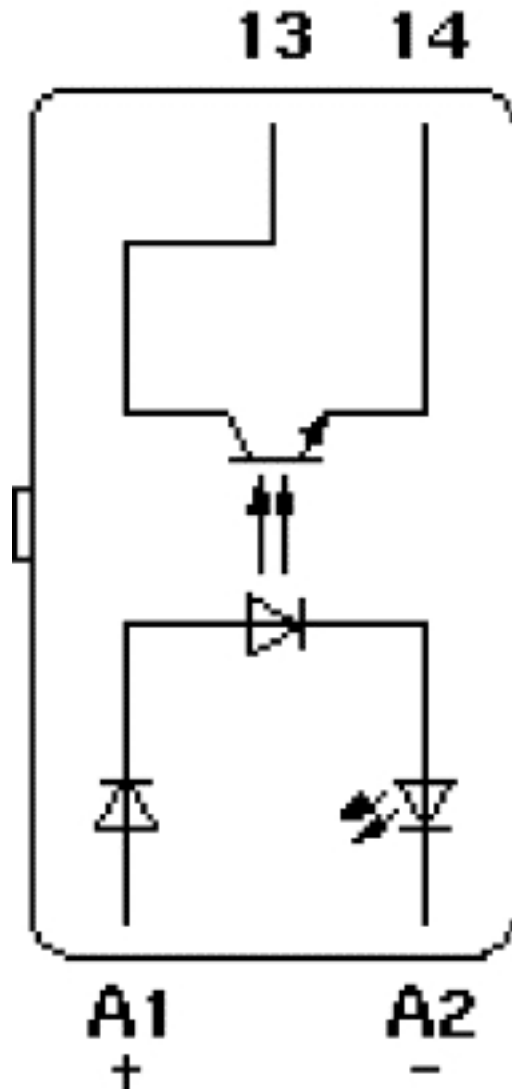
Approval details

EAC

Drawings

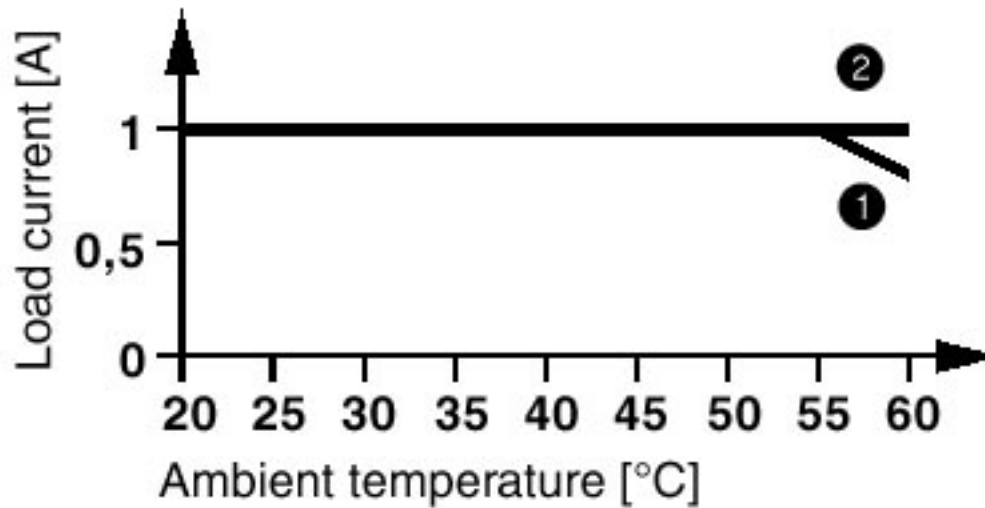
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Circuit diagram



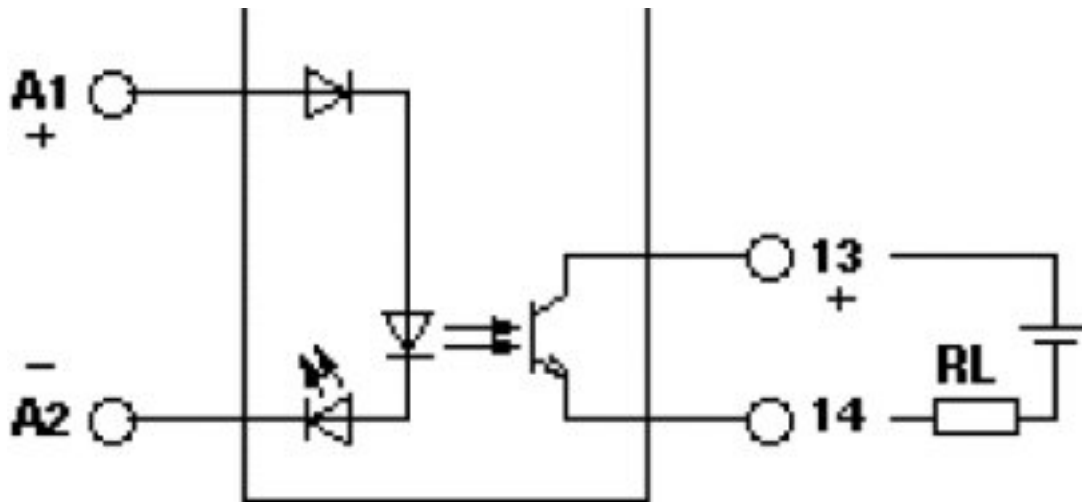
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Diagram



- ① mounted in rows with zero spacing.
- ② power optocouplers mounted in rows, ≥ 20 mm.

Circuit diagram



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