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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## 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 GRM
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 $\pm 20$ %
Switching threshold "0" signal, voltage	$\leq 10.5$ V
Switching threshold "1" signal voltage	$\geq 29$ 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	Protection against polarity reversal
	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

## 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	27371001

### ETIM

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

### UNSPSC

UNSPSC 6.01	30211916
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## Classifications

### UNSPSC

UNSPSC 7.0901	39121542
UNSPSC 11	39121542
UNSPSC 12.01	39121542
UNSPSC 13.2	39121542

## Approvals

### Approvals

Approvals

GOST / GOST

Ex Approvals

Approvals submitted

### Approval details

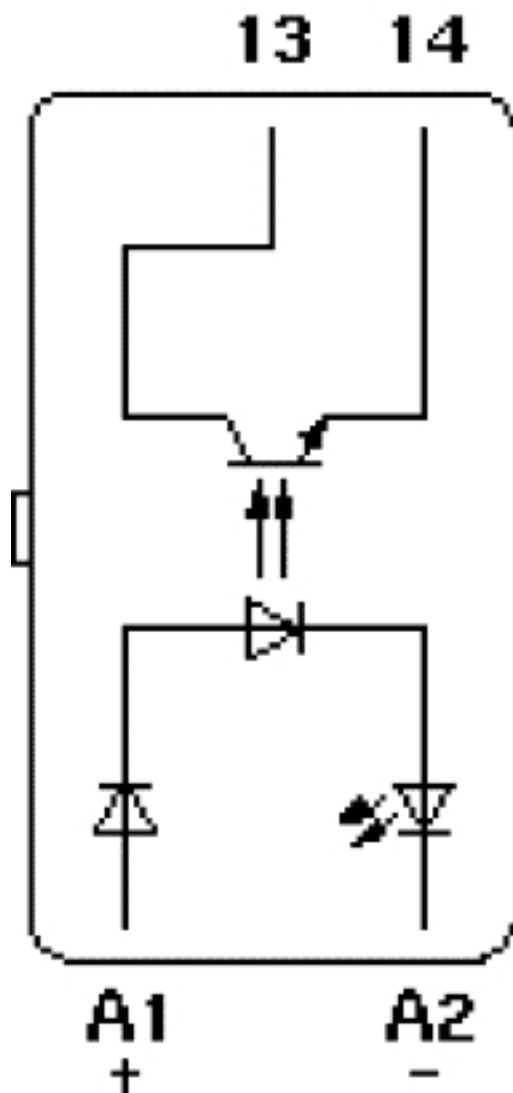
GOST 

GOST 

## Drawings

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

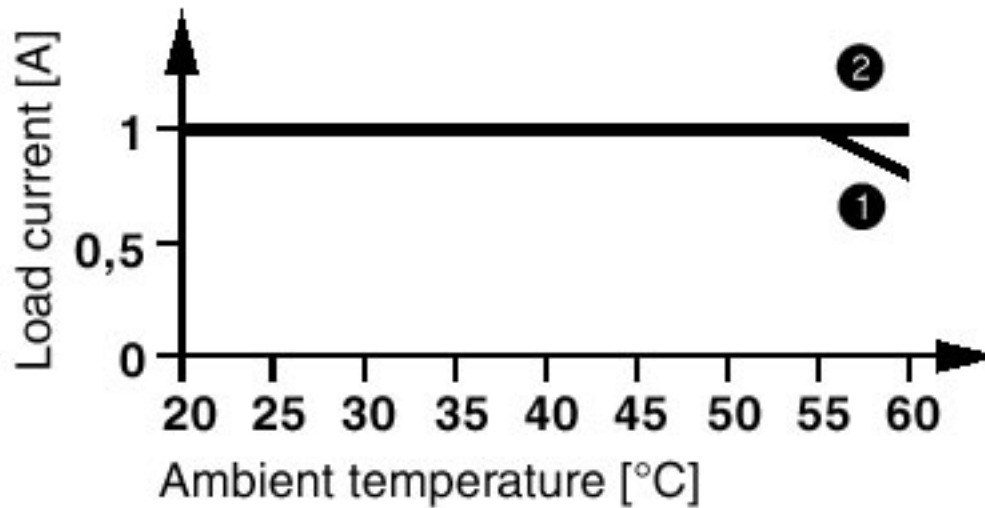
Circuit diagram





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Diagram



- ❶ mounted in rows with zero spacing.
- ❷ power optocouplers mounted in rows,  $\geq 20$  mm.

Circuit diagram

