

# ST-OE3-220DC/ 24DC/500 - Solid-state relay



2911168

<https://www.phoenixcontact.com/us/products/2911168>

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Pluggable input optocoupler, with light indicator and protection circuits in the input and output circuits, input: 220 V DC, output: short-circuit resistant, 12-35 V DC/max. 500 mA, can be plugged on basic termination blocks

The figure shows version ST-OE 3- 5 DC/24DC/500

## Commercial data

Item number	2911168
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DK61B1
GTIN	4017918079581
Weight per piece (including packing)	22.82 g
Weight per piece (excluding packing)	22.82 g
Customs tariff number	85364900
Country of origin	DE

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## Technical data

### Product properties

Product type	Single solid-state relay
Data management status	
Date of last data management	05.09.2025

### Electrical properties

Test voltage (Input/output)	2.5 kV AC (Input/output)
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### Input data

Nominal input voltage $U_N$	220 V DC
Input voltage range in reference to $U_N$	0.9 ... 1.1
Input voltage range	198 V DC ... 242 V DC
Switching threshold "0" signal in reference to $U_N$	$\leq 0.4$
Switching threshold "1" signal in reference to $U_N$	$\geq 0.8$
Typical input current at $U_N$	8 mA
Typical response time	50 $\mu$ s
Typical turn-off time	200 $\mu$ s
Status display	LED (yellow)
Protective circuit	Reverse polarity protection; Polarity protection diode RC element
Transmission frequency	300 Hz

### Output data

Design of digital output	electronic
Output voltage range	12 V DC ... 35 V DC
Limiting continuous current	500 mA
Current limitation at short-circuits	620 mA (continued short-circuit resistant)
Voltage drop at max. limiting continuous current	1.5 V
Output circuit	3-conductor, ground-referenced
Status display	LED (red)
Protective circuit	Reverse polarity protection; Polarity protection diode Free running; Freewheeling diode
Output resistor	approx. 50 k $\Omega$

### Dimensions

Width	20.8 mm
Height	33 mm
Depth	66.5 mm

### Material specifications

Color	green (RAL 6021)
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## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

Standards/regulations	DIN VDE 0110
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## Mounting

Mounting position	any
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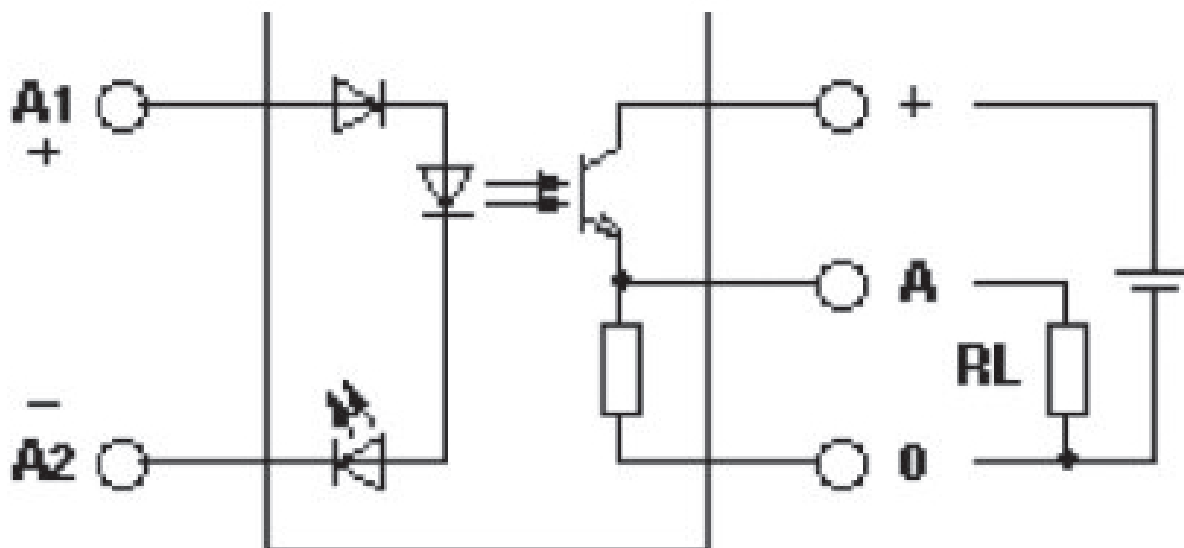


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## Drawings

Circuit diagram



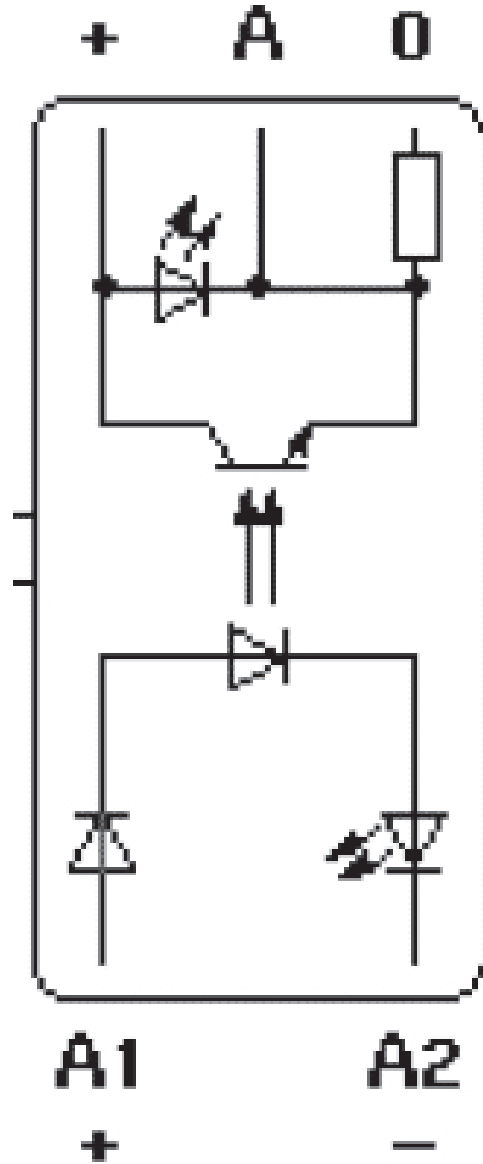
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Circuit diagram



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## Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	
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	No substance above 0.1 wt%
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