

# TC MOBILE I/O X200 AC - SMS relay



2903806

<https://www.phoenixcontact.com/us/products/2903806>

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SMS relay and signaling module, monitor digital values via cellular network and switch relay outputs remotely, communication via SMS and GPRS (e-mail transmission, app), supply voltage range 93 V ... 250 V AC.

## Product description

The compact TC MOBILE I/O X200 AC signaling system is the successor to the PSI-MODEM-SMS-RELAY/6 DI/4DO/AC SMS relay (Order No. 2313513) and is used to monitor analog and digital values via the cellular network and switch relay outputs remotely. A USB connection to a computer and a web browser is all that is needed for configuration. The device features numerous helpful software functions, such as cellular diagnostics, sending of log books via e-mail, and different user roles.

## Your advantages

- Notification via SMS on change of status at input
- SMS status query of all inputs and outputs
- SMS relay for remote control of outputs
- Alarm generation on voltage failure via SMS
- GSM mobile phone network: 850, 900, 1800, and 1900 MHz
- Switching of outputs for a predefined time
- Communication via SMS and e-mail
- Configuration via USB and web browser
- Compact design also for domestic installations (4 HP, DIN 43880)
- Mounting on DIN rail or on the wall

## Commercial data

Item number	2903806
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DNC423
GTIN	4046356768849
Weight per piece (including packing)	252 g
Weight per piece (excluding packing)	236.8 g
Customs tariff number	85176200
Country of origin	DE

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## Technical data

### Notes

#### Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.
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### Product properties

Product type	Signaling system
MTTF	792 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	378 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	153 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)

### Electrical properties

Maximum power dissipation for nominal condition	5.145 W
Mains type	Cellular communication

#### Supply

Supply voltage range	93 V AC ... 250 V AC (47.5 Hz ... 63 Hz)
Typical current consumption	15 mA (230 V AC)
Max. current consumption	25 mA

### Input data

#### Digital

Description of the input	Digital input
Number of inputs	4
Switching level "0" signal	0 V AC ... 50 V AC
Switching level "1" signal	90 V AC ... 250 V AC

### Output data

#### Switching

Output name	Relay output
Number of outputs	4
Contact switching type	N/O contact
Minimum switching voltage	5 V
Maximum switching voltage	125 V DC 250 V AC
Limiting continuous current	5 A
Switching power	750 VA
Electrical service life	150000 switching cycles (5 A / 30 V DC) 150000 switching cycles (3 A / 120 V AC)

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30000 cycles (5 A / 250 V AC)

## Connection data

### Supply

Conductor cross-section, flexible, with ferrule, without plastic sleeve	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.20 mm <sup>2</sup> ... 2.50 mm <sup>2</sup>
Conductor cross-section, rigid	0.20 mm <sup>2</sup> ... 2.50 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 14
Stripping length	6.50 mm
Tightening torque	0.5 Nm ... 0.6 Nm (5-7 lbs-in, screw terminal blocks)

## Interfaces

Web server	yes
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### Data: USB 2.0

Connection method	Mini-USB type B, 5-pos.
Transmission length	≤ 3 m (only for configuration and diagnostics)

### Wireless

Interface description	GSM / GPRS
Frequency range	850 MHz (2 W (EGSM))
	900 MHz (2 W (EGSM))
	1800 MHz (1 W (EGSM))
	1900 MHz (1 W (EGSM))
GPRS	Multislot Class 10

## Dimensions

Width	72 mm
Height	90 mm
Depth	62 mm

## Material specifications

Color (Upper housing part)	light gray (RAL 7035)
Color (Lower housing part)	black (RAL 9005)
Material (Housing)	Polycarbonate

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (SMS mode only, note the derating information in the technical documentation for data connection)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	2000 m

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Permissible humidity (operation)	0 % ... 95 %
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## Approvals

### CE

Certificate	CE-compliant
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### ATEX

Identification	Ⓜ II 3 G Ex nA nC IIC T4 Gc X
Note	Please follow the special installation instructions in the documentation!

### Wireless approval USA, FCC

Note	Part 15.107(a), 15.109(a)
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### Corrosive gas test

Identification	ISA-S71.04-1985 G3 Harsh Group A
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### Wireless approval, Europe

Note	RED 2014/53/EU
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## EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
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### Electrostatic discharge

Standards/regulations	EN 61000-4-2
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### Electrostatic discharge

Contact discharge	± 6 kV
Discharge in air	± 8 kV
Indirect discharge	± 6 kV
Comments	Criterion B

### Electromagnetic HF field

Standards/regulations	EN 61000-4-3
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### Electromagnetic HF field

Frequency range	26 MHz ... 6 GHz
Field intensity	10 V/m
Comments	Criterion A

### Fast transients (burst)

Standards/regulations	EN 61000-4-4
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### Fast transients (burst)

Input	± 2 kV (Unshielded supply line)
Signal	± 2 kV (Shielded signal line)
Comments	Criterion B

### Surge current load (surge)

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Standards/regulations	EN 61000-4-5
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## Surge current load (surge)

Input	± 1 kV (Symmetrical, unshielded supply line) ± 2 kV (Asymmetrical, unshielded supply line)
Signal	± 1 kV (Data line, asymmetrical)
Comments	Criterion B

## Conducted interference

Standards/regulations	EN 61000-4-6
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## Conducted interference

Frequency range	0.15 MHz ... 80 MHz
Comments	Criterion A
Voltage	10 V

## Voltage dips

Standards/regulations	EN 61000-4-11
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## Emitted interference

Emitted radio interference in acc. with EN 55011	Class B, area of application: Industry and residential
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## Criteria

Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

## Standards and regulations

Standards/regulations	EN 50360
Standards/regulations	EN 50121-4

## Mounting

Mounting type	DIN rail mounting
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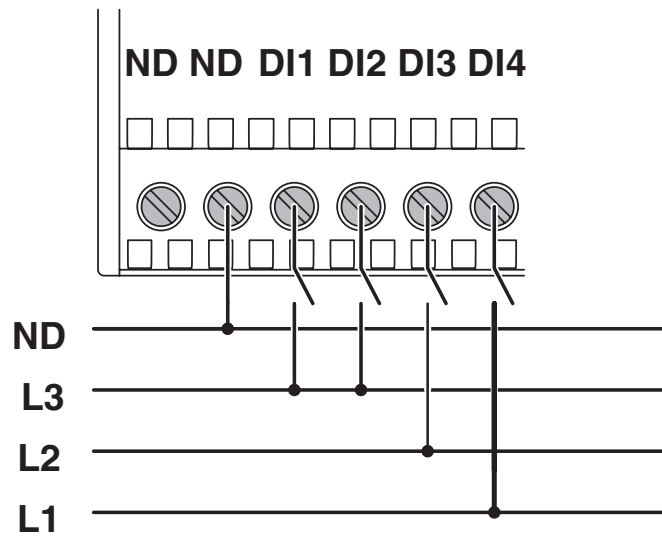


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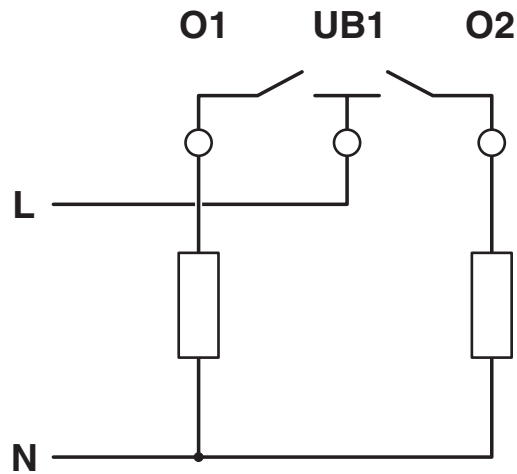
## Drawings

Connection diagram



## Digital inputs

Connection diagram



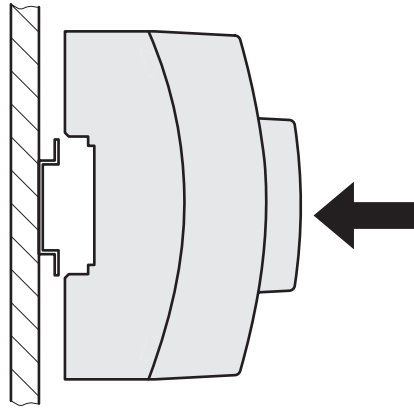
## Floating relay contacts

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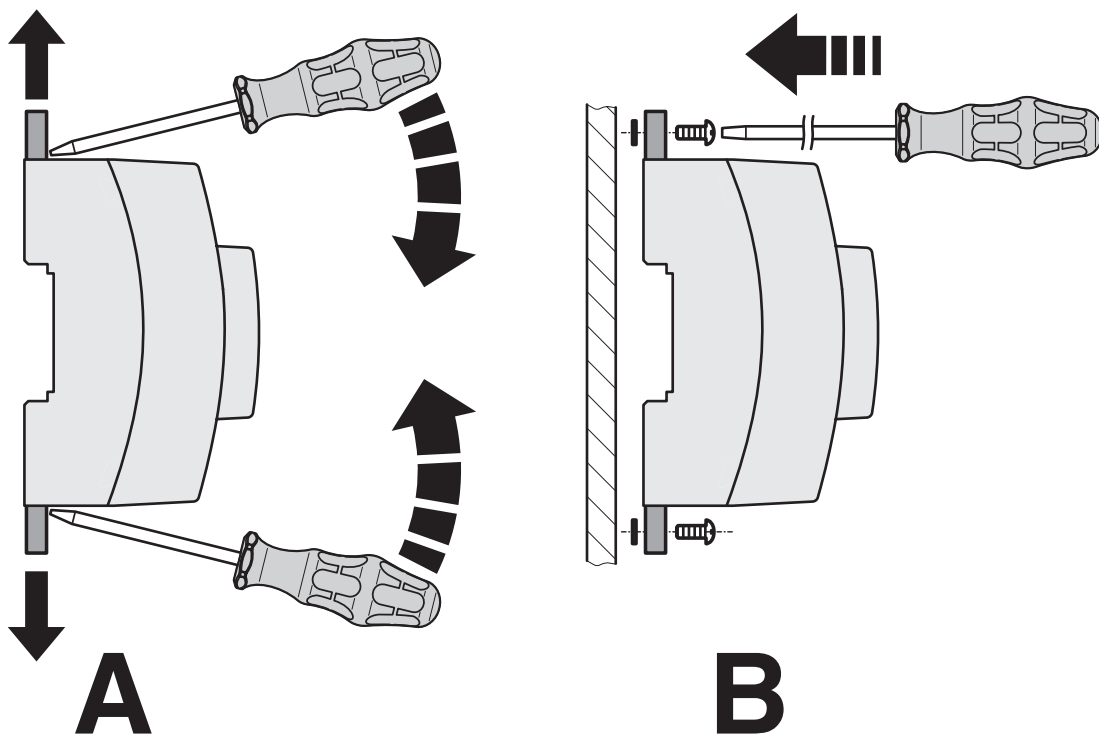
<https://www.phoenixcontact.com/us/products/2903806>

Schematic diagram



DIN rail mounting

Schematic diagram



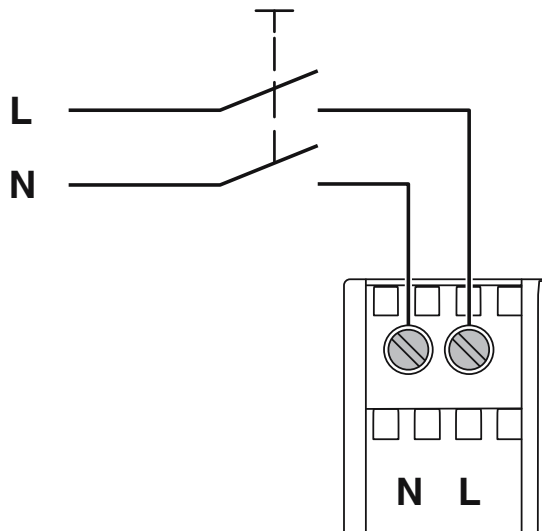
Panel mounting

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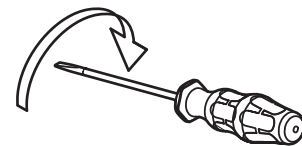
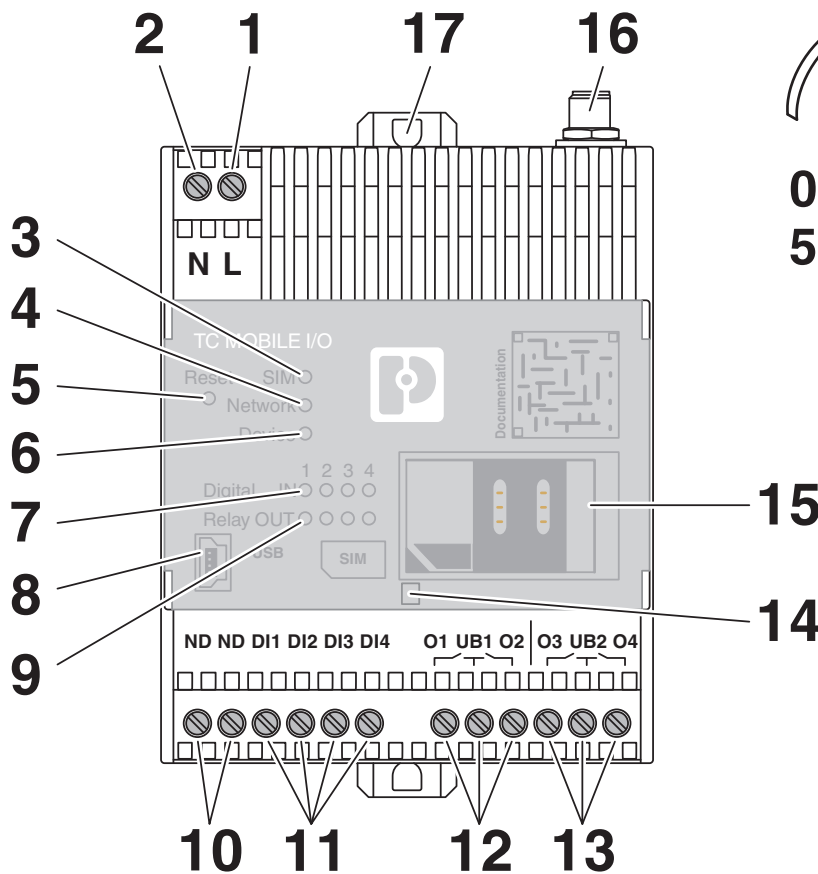
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Schematic diagram



Connecting the supply voltage

Schematic diagram



**0,5-0,6 Nm**  
**5-7 lb In**

Front view

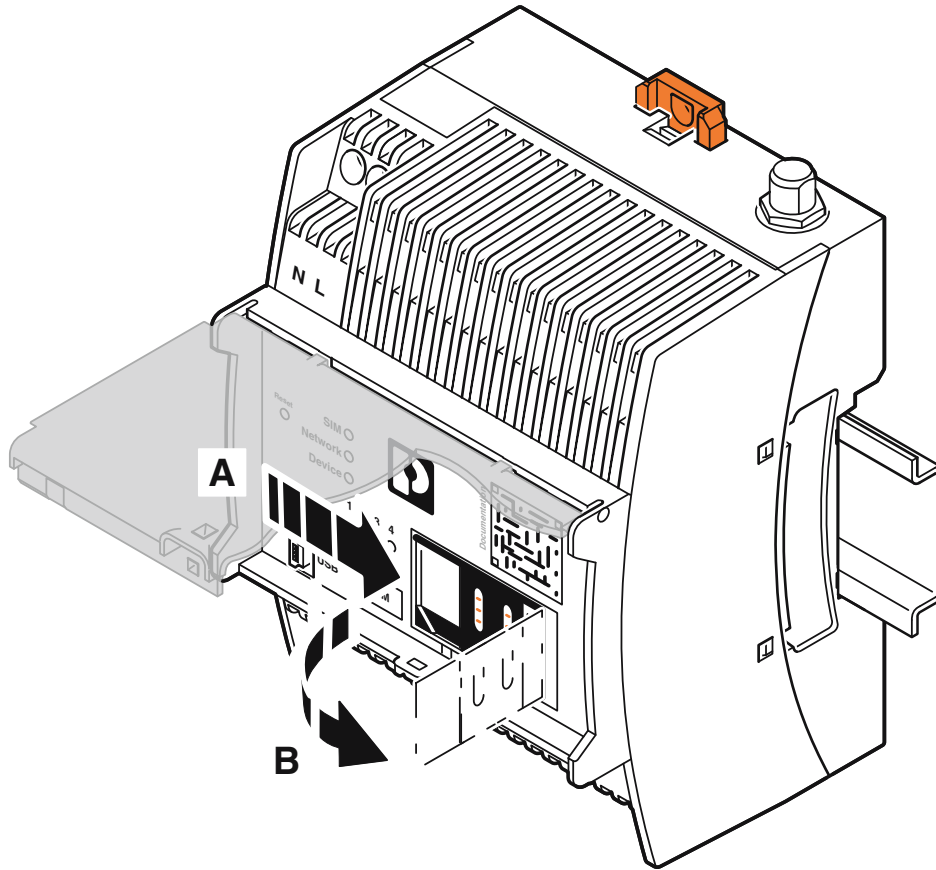
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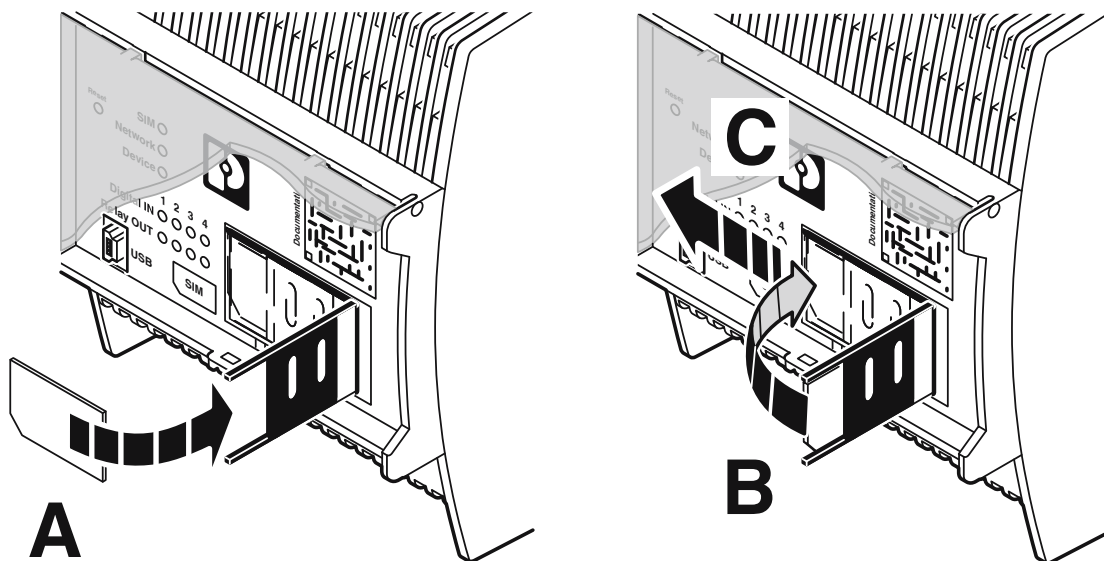
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Schematic diagram



Insert the SIM card

Schematic diagram



Insert the SIM card

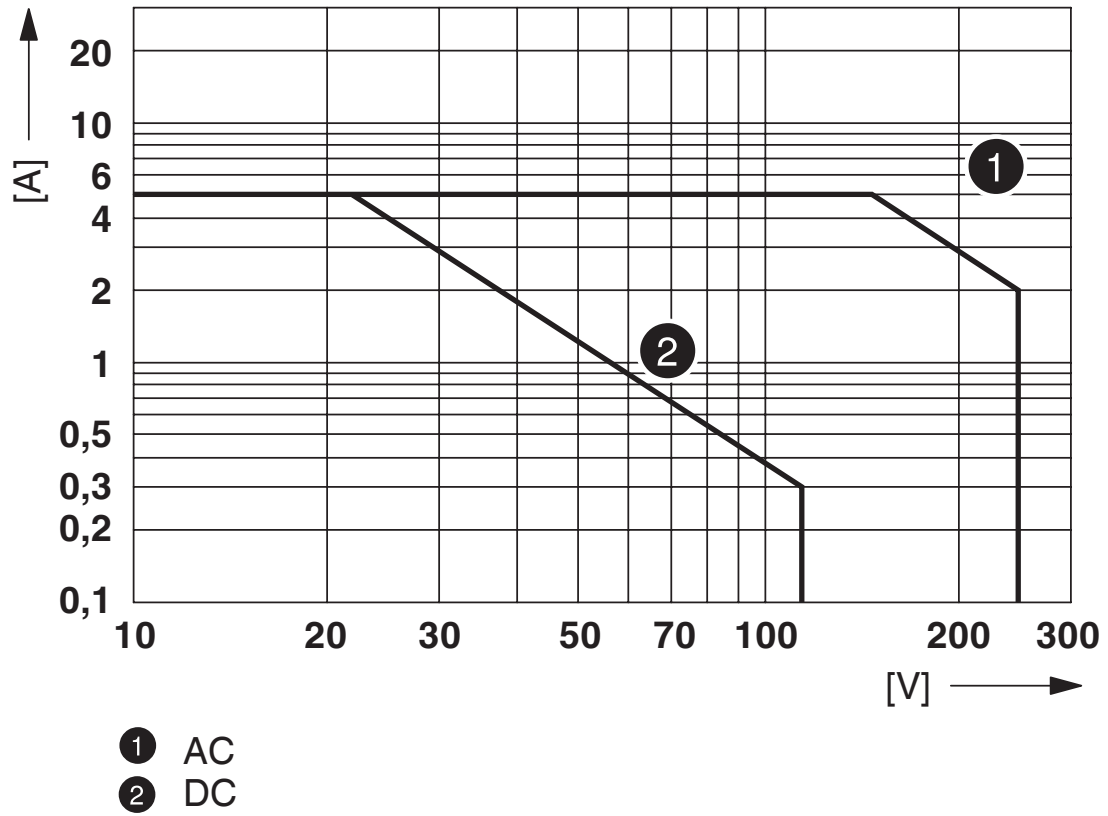
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Diagram



Relay, max. load switching capacity, resistive load

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## Classifications

### UNSPSC

UNSPSC 21.0	32151600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

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