

# TC MOBILE I/O X300 AC - Signaling system



2903808

<https://www.phoenixcontact.com/us/products/2903808>

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Compact signaling system for cellular networks to monitor digital values as well as to switch relay outputs remotely. Communication is via the ODP protocol to an ODP server using GPRS. Supply voltage range of 93 V ... 250 V AC.

## Your advantages

- GPRS messaging system for remote control of outputs
- Alarm generation on voltage failure via SMS
- GSM mobile phone network: 850, 900, 1800, and 1900 MHz
- Communication via ODP protocol
- Data transmission either online or as historical values with time stamp
- 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	2903808
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNC423
GTIN	4046356768863
Weight per piece (including packing)	244.3 g
Weight per piece (excluding packing)	244.3 g
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	662 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	333 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	142 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	40 mA (230 V AC)
Max. current consumption	60 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>
Single conductor/terminal point, rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Single-wire/terminal point, flexible	0.2 mm <sup>2</sup> ... 2.5 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

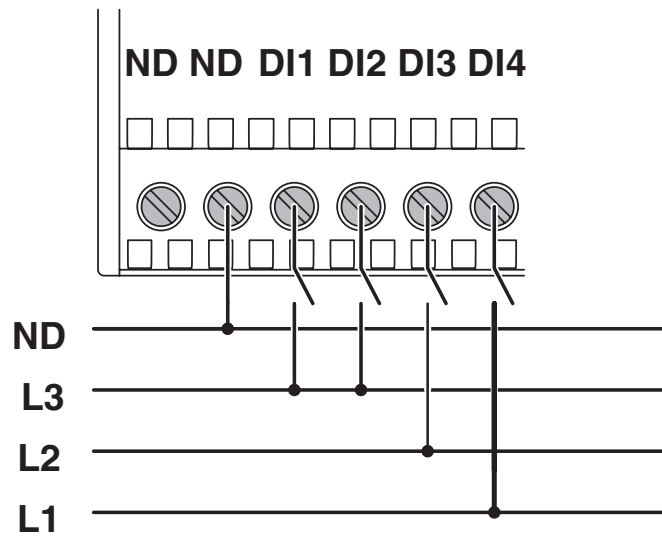
Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

## Standards and regulations

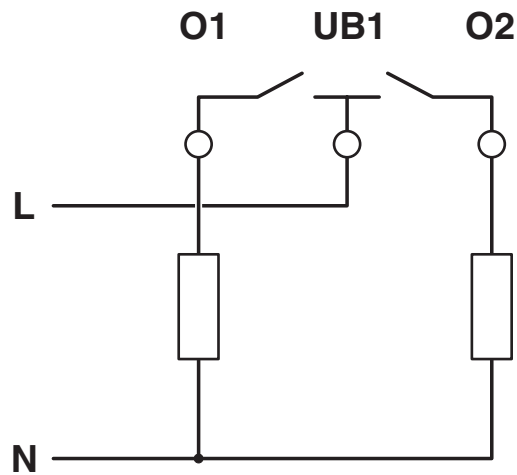
Standards/regulations	EN 50360
Standards/regulations	EN 50121-4

## Drawings

Connection diagram



Connection diagram

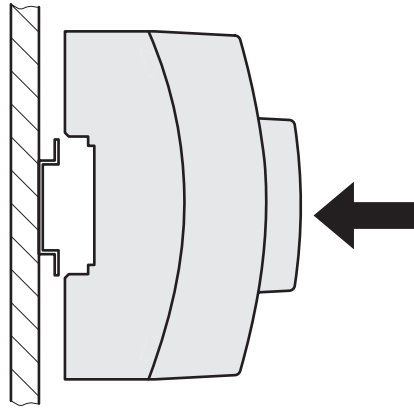


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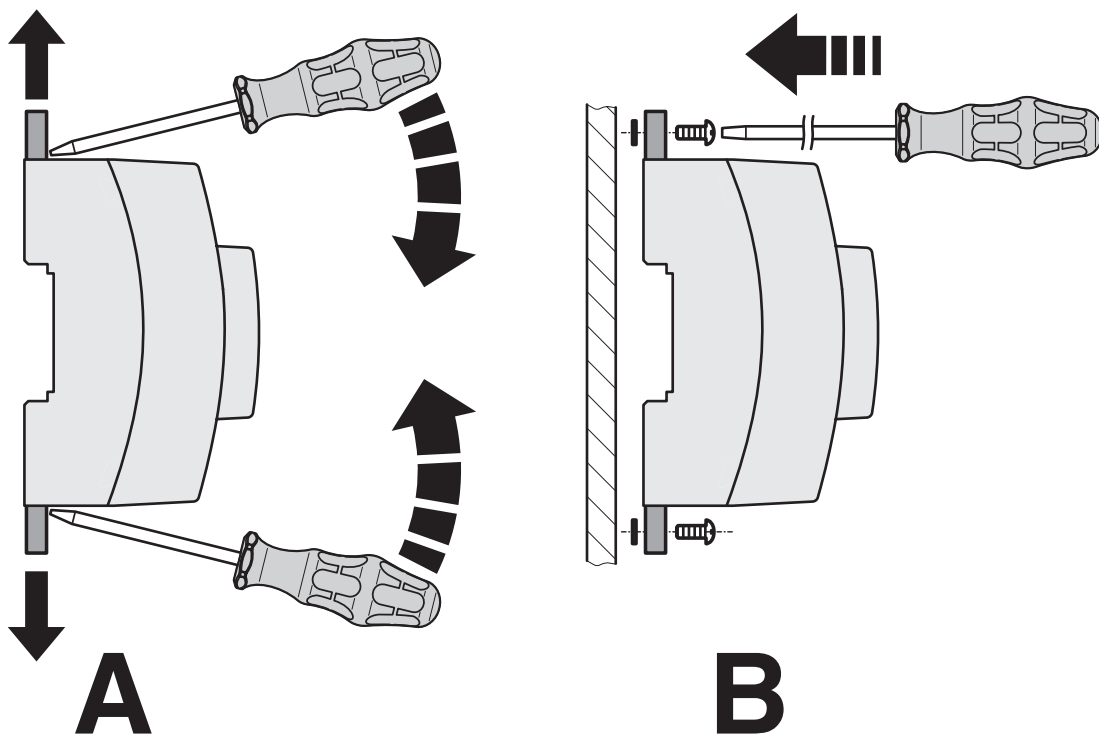
<https://www.phoenixcontact.com/us/products/2903808>

Schematic diagram



DIN rail mounting

Schematic diagram



Panel mounting

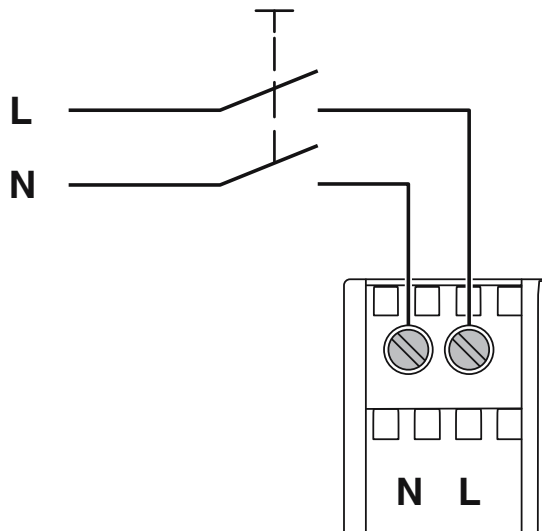
# TC MOBILE I/O X300 AC - Signaling system



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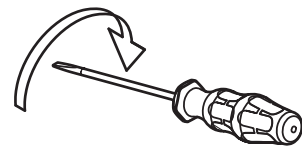
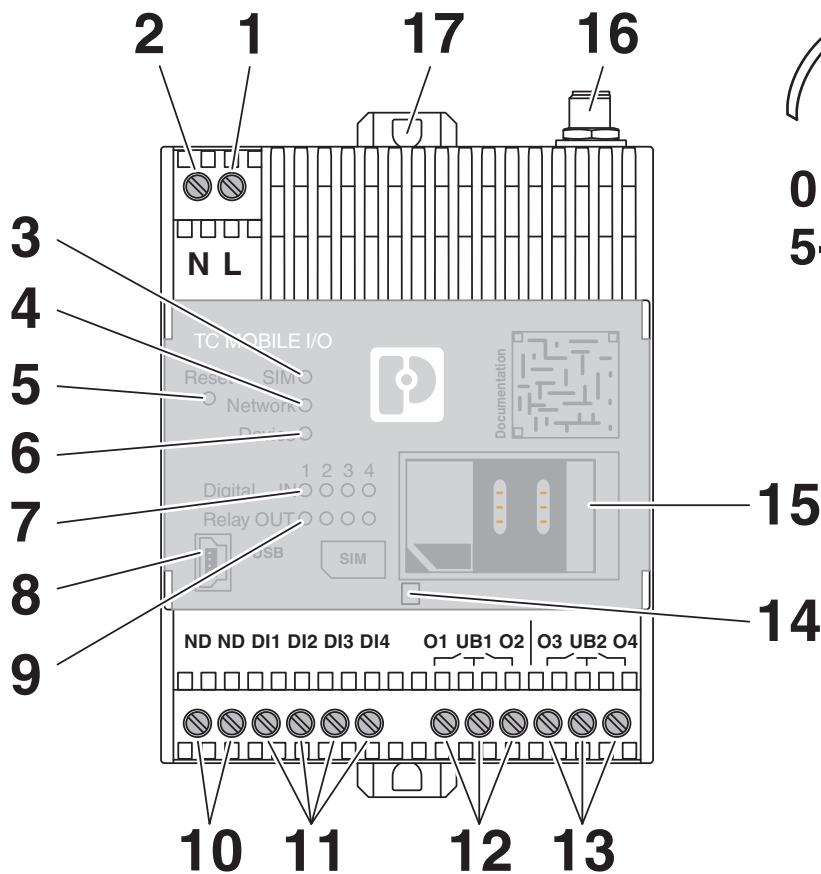
<https://www.phoenixcontact.com/us/products/2903808>

Schematic diagram



Connecting the supply voltage

Schematic diagram



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

Front view

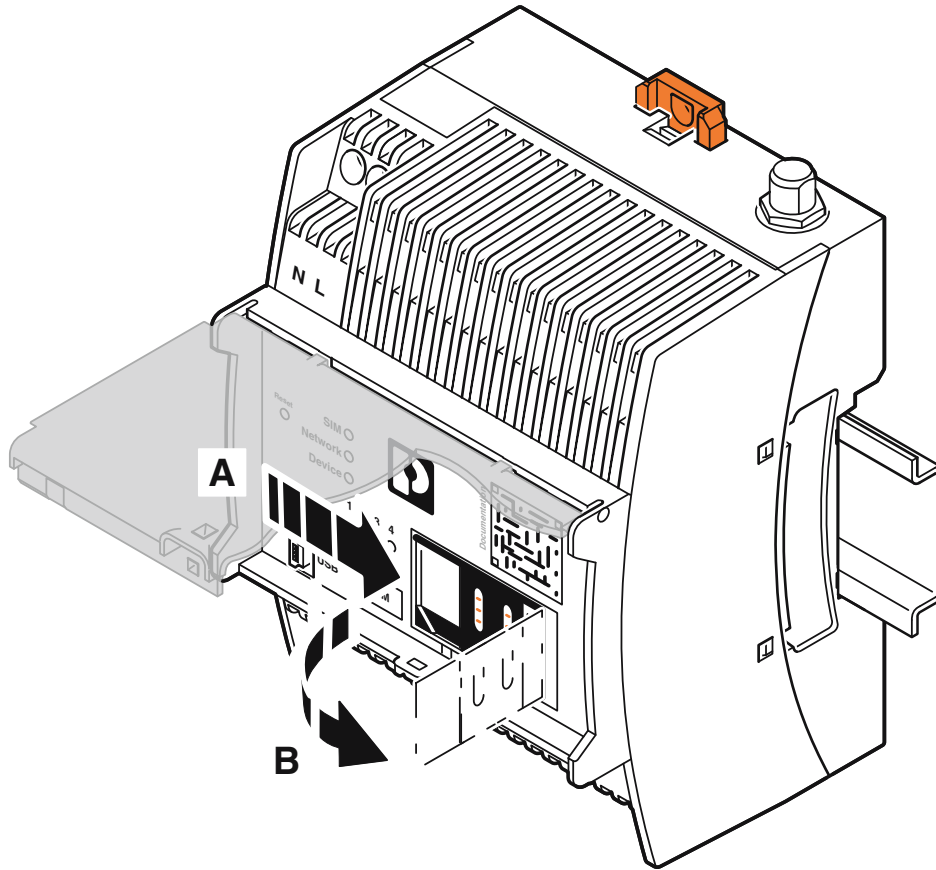
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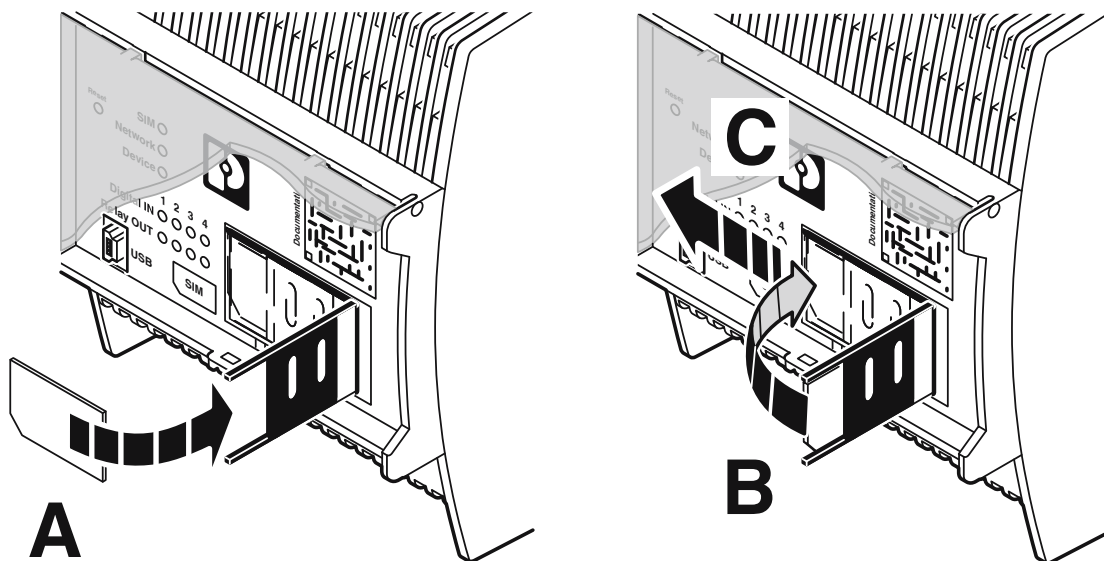
<https://www.phoenixcontact.com/us/products/2903808>

Schematic diagram



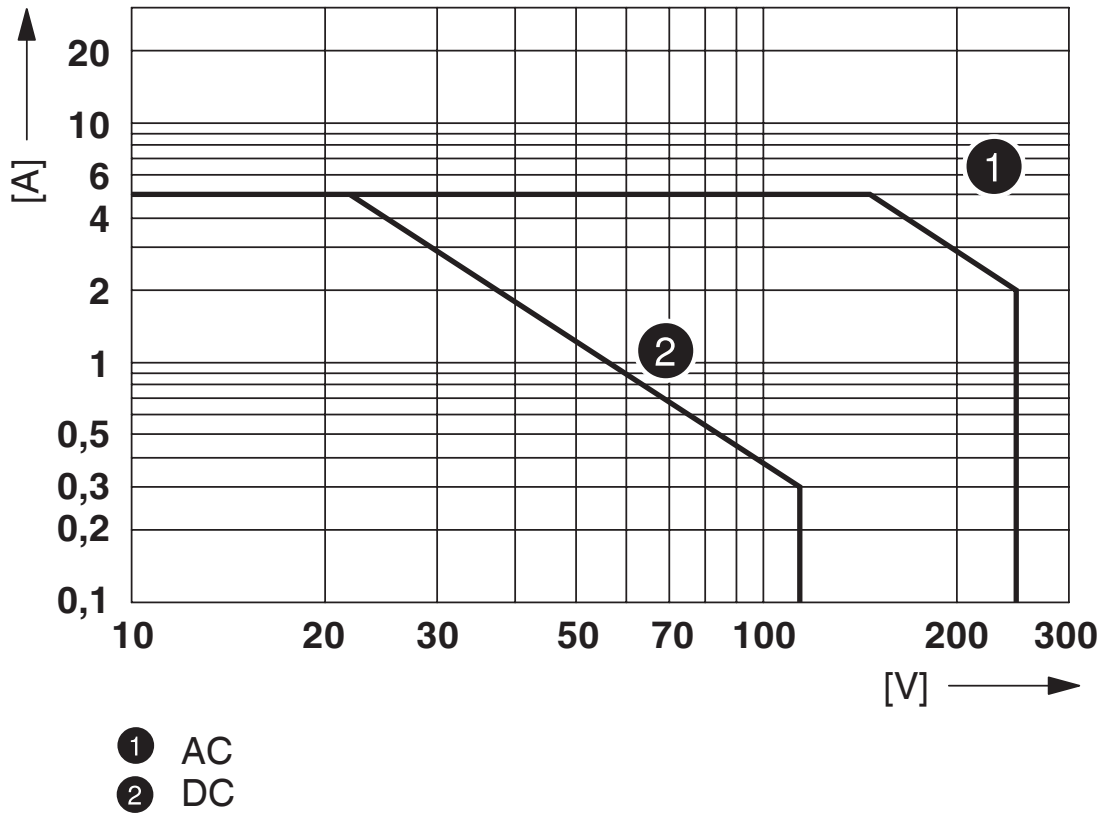
Insert the SIM card

Schematic diagram



Insert the SIM card

Diagram



Relay, max. load switching capacity, resistive load

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## Classifications

### ECLASS

ECLASS-13.0

27242608

### ETIM

ETIM 9.0

EC001604

### 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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