

# Power Relay 430 3 mm

1 pole 16 A, DC- and AC-coil



F0256-A

## Features

- 1 N/O contact
- Safety mains isolation
- Contact gap > 3 mm
- 4 kV / 8 mm coil-contact, protection class II (VDE 0700)
- PCB mounting or Faston connectors
- Mounting brackets or snap mounting
- Version with arc blow magnet for high DC-loads

## Applications

Domestic appliances, industrial appliances, industrial controls



Technical data of approved types on request

## Contact data

Configuration	1 N/O contact
Type of contact	single contact
Rated current	16 A
Rated voltage / max.breaking voltage AC	250 Vac / 400 Vac
Maximum breaking capacity AC	4000 VA
Make current (max. 4 s at duty cycle 10%)	25 A
Contact material	AgCdO, AgCu3
Contact gap	>3 mm

## Contact ratings

Type	Load	Operations
430x5	16 A, 250 Vac, resistive, 70 °C	1.5x10 <sup>5</sup>
430x5	10 A, 250 Vac, resistive, 105 °C	1.5x10 <sup>5</sup>

## Coil data

Nominal voltage	DC coil	6...110 Vdc
	AC coil	6...240 Vac
Nominal coil power	DC coil	1 W
	AC coil	1.8 VA
Operate category		2 / b

## Coil versions, DC coil

Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Maximum voltage Vdc	Coil resistance Ω	Coil current mA
09	12	7.8	0.6	15.6	145±10%	83.0
10	24	15.6	1.2	31.2	580±10%	41.0
11	48	31.2	2.4	62.4	2200±10%	22.0
13	110	71.5	5.5	143.0	13000±10%	9.0

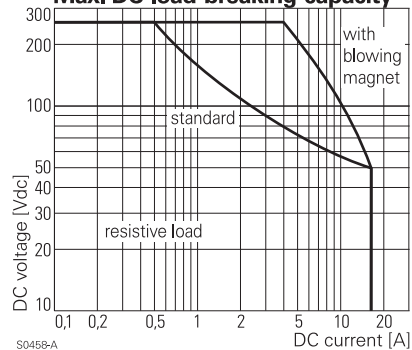
## Coil versions, AC coil

Coil code	Nominal voltage Vac	Pull-in voltage Vac	Release voltage Vac	Maximum voltage Vac	Coil resistance Ω	Coil current mA
23	24	18	3.6	27.0	145±10%	75.0
25	60	45	9.0	69.0	950±10%	30.0
26	110	83	16.0	127.0	3100±10%	16.0
27	230	175	35.0	253.0	11400±10%	9.0

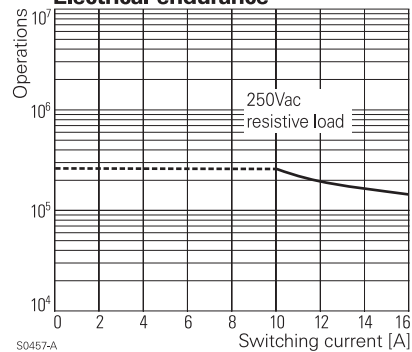
All figures are given for coil without preenergization, at ambient temperature +20°C

Other coil voltages on request

## Max. DC load breaking capacity



## Electrical endurance



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## Insulation

Dielectric strength	coil-contacts	4000 V <sub>rms</sub>
	open contact circuit	2000 V <sub>rms</sub>
Clearance / creepage		8 / 8 mm
Insulation to IEC 60664		
Voltage rating		250 V
Pollution degree		3
Overvoltage category		III
Insulation to VDE 0110b (2/79)		
Insulation category / reference voltage		C / 250
Tracking resistance of relay base		PTI 380H

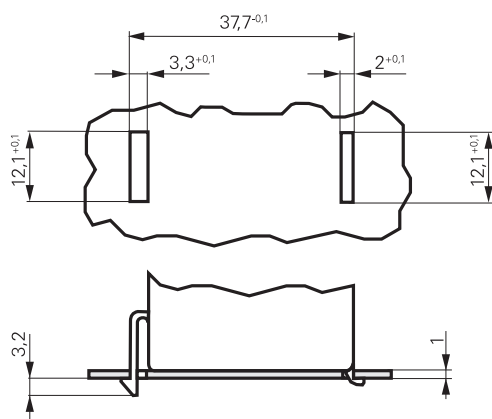
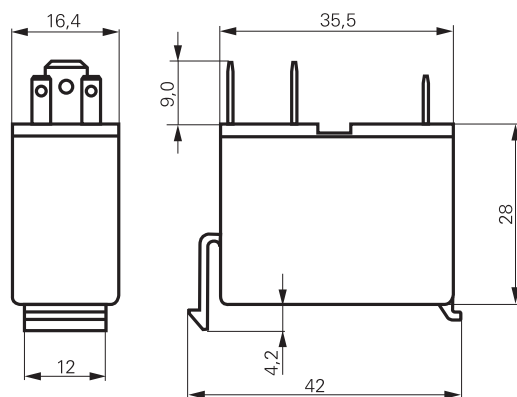
## Other data

Ambient temperature	-20...+70 °C
Mechanical life	>2.5x10 <sup>5</sup> operations
Max. switching rate at rated- / minimum load	15 min <sup>-1</sup> / 300 min <sup>-1</sup>
Operate- / release time	typ. 15 / 8 ms
Bounce time	typ. 4 ms
Shock resistance (destruction)	100 g
Category of protection (IEC 61810)	RT I - dust protected
Relay weight	32 g
Packaging unit	50 pcs.

## Dimensions

Snap mounting

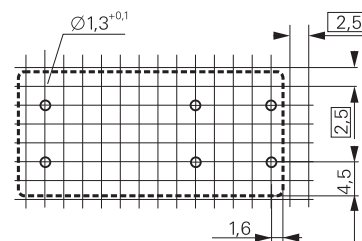
Dimensions in mm



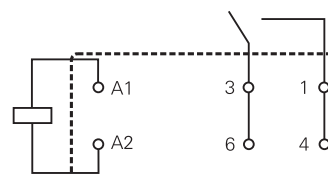
## PCB layout / terminal assignment

View on solder pins

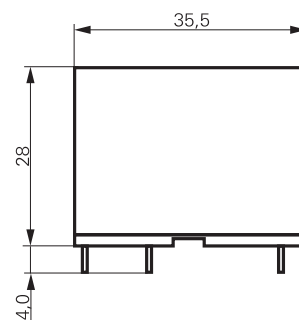
Dimensions in mm



S0448-AE



S0448-AF

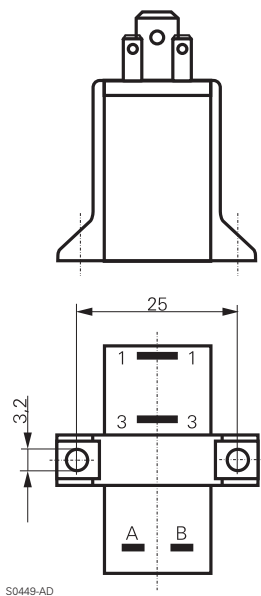


S0449-AB

# Power Relay 430 3 mm 1 pole 16 A, DC- and AC-coil

Dimensions
Mounting brackets

Dimensions in mm



## Product key

0

4

3

0

1

0

0

Type

Mounting

Contact design

Coil

Contact material

Other types on request

0

1

2

5

4

5

Coil code: Please refer to coil versions table

0

1

PCB version

mounting brackets

arc blowing magnet

standard

AgCu3

AgCdO

snap mounting

DIN rail mounting

Product key	Version	Cont-material	Cont-config.	Coil	Coil	Part number
0430 25 0911 00	snap mounting	AgCdO	1 N/O contact	DC-coil	12Vdc	1-1415404-1
0430 25 1011 00	1.0mm plate				24Vdc	1-1415404-3
0430 25 2811 00				AC-coil	240Vac	1-1415404-6