

Power Relay 430 3 mm

- 1 pole 16 A, 1 NO contact
- Safety mains isolation
- Contact gap > 3 mm
- DC- and AC-coil
- 4 kV / 8 mm coil-contact, reinforced insulation (VDE 0700)
- PCB mounting or quick connect terminals
- Mounting brackets or snap mounting
- Version with arc blow magnet for high DC-loads
- Product in accordance to IEC60335-1



F0256-B

Applications

Domestic appliances, industrial appliances, industrial controls

Approvals

VDE REG.-Nr. C820, cULus E214024
Technical data of approved types on request

Contact data

Contact configuration	1NO
Contact set	bifurcated contact
Type of interruption	full disconnection
Rated voltage / max. switching voltage AC	250 / 400 VAC
Rated current	16 A
Maximum breaking capacity AC	4000 VA
Limiting making capacity, max 4 s, duty factor 10%	25 A
Contact material	AgCu ₃ , AgCdO
Contact gap	> 3 mm
Rated frequency of operation with / without load	15 / 300 min ⁻¹

Contact ratings

Type	Contact	Load	Ambient temp. [°C]	Cycles
IEC 61810				
0430 .4 .. 0	NO	16 A, 250 VAC, cosφ=1	70°C	50x10 ³
0430 .4 .. 1	NO	16 A, 250 VAC, cosφ=1	70°C	50x10 ³

Coil data

Rated coil voltage range DC coil	6...110 VDC
AC coil	6...240 VAC
Operative range to IEC 61810	2

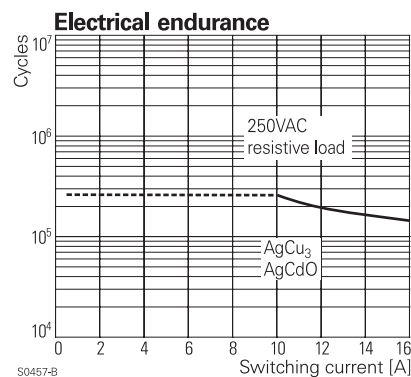
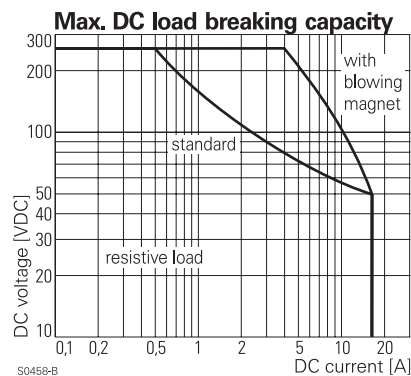
Coil versions, DC-coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power mW
09	12	7.8	0.6	145 ± 10%	993
10	24	15.6	1.2	580 ± 10%	993
11	48	31.2	2.4	2200 ± 10%	1047
13	110	71.5	5.5	13000 ± 10%	931

Coil versions, AC-coil 50Hz

Coil code	Rated voltage VAC	Operate voltage VAC	Release voltage VAC	Coil resistance Ohm	Rated coil power VA
23	24	18	3.6	145 ± 10%	1.8
25	60	45	9.0	950 ± 10%	1.8
26	110	83	16.0	3100 ± 10%	1.8
27	230	175	35.0	11400 ± 10%	1.8
28	240	185	36.0	13000 ± 10%	1.8

All figures are given for coil without preenergization, at ambient temperature +23°C
Other coil voltages on request



Power Relay 430 3 mm (Continued)

Insulation

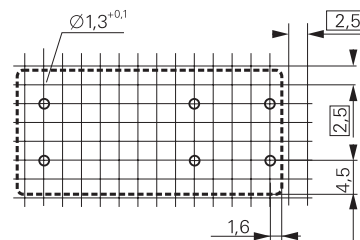
Dielectric strength coil-contact circuit	4000 V _{rms}
open contact circuit	2000 V _{rms}
Clearance / creepage coil-contact circuit	≥ 8 / 8 mm
Material group of insulation parts	IIIa
Tracking index of relay base	PTI 250
Insulation to IEC 61810-1	
Type of insulation coil-contact circuit	reinforced
open contact circuit	full disconnection 3 mm
Rated insulation voltage	250 V
Pollution degree	3
Rated voltage system	230 / 400 V
Overvoltage category	III

Other data

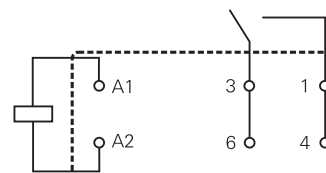
Mechanical endurance	> 2.5x10 ⁵ cycles	
Material		
RoHS - Directive 2002/95/EC	compliant as per product date code 0349	
Environment		
Ambient temperature range	-20...+70°C	
Shock resistance (destruction)	100 g	
Category of protection	RT I - dust protected	
Processing		
Mounting	pcb, mounting brackets, snap mounting, DIN rail	
Resistance to soldering heat	270°C / 10 s	
Relay weight	32 g	
Packaging unit	50 pcs	

PCB layout / terminal assignment

Bottom view on solder pins



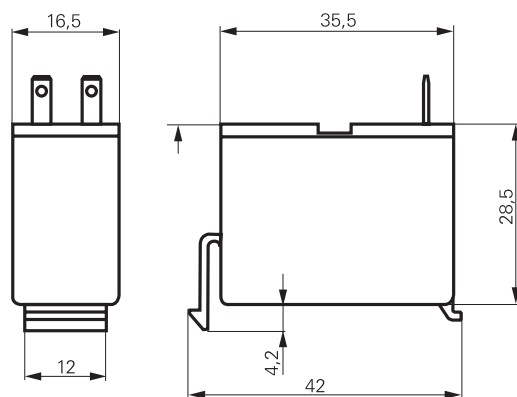
S0448-AE



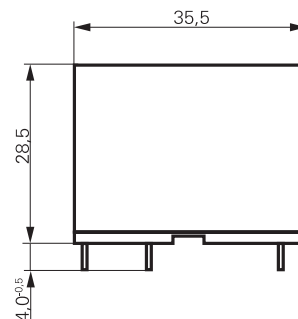
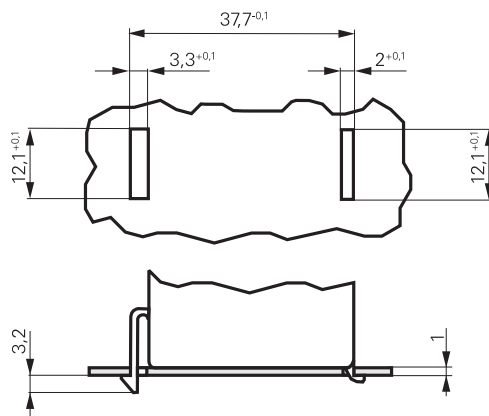
S0448-AF

Dimensions

Snap mounting



S0449-CH



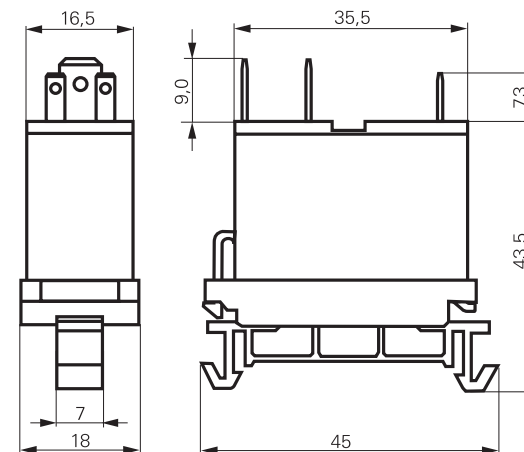
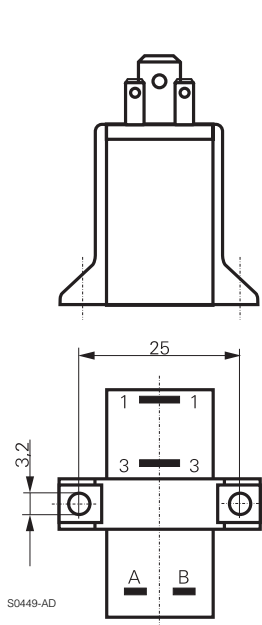
S0449-CB

Power Relay 430 3 mm (Continued)

Dimensions

Mounting brackets

DIN-rail mount



Product key

Typical product key

0430 2 5 09 1 100

Type

0430 Power relay 430 3 mm

Mounting

0 PCB version **2** snap mounting
1 mounting brackets **5** DIN-rail mounting

Contact design

4 arc blowing magnet
5 standard

Coil

Coil code: please refer to coil versions table

Contact material

0 AgCu 3 **1** AgCdO

Version

100 standard

Other types on request

Product key	Version	Cont-material	Cont.configuration	Coil	Coil	Part number
0430 25 0911 00	snap mounting	AgCdO	1 NO contact	DC-coil	12 VDC	1-1415404-1
0430 25 1011 00	1.0mm plate				24 VDC	1-1415404-3
0430 25 2811 00				AC-coil	240 VAC	1-1415404-6