

Power Relay 430

- 1 pole 16 A or 2 pole 10 A in NO, CO and NC versions
- DC- and AC-coil
- 4 kV / 8 mm coil-contact
- PCB mounting or quick connect terminals
- Mounting brackets or snap mounting
- Product in accordance to IEC60335-1
- RoHS compliant (Directive 2002/95/EC)
as per product date code 0349

Applications

Motors, electro valves



F0257-A

Approvals

1 pole: REG.-Nr. A548, 2 pole: REG.-Nr. A516, **us** E214025
Technical data of approved types on request

Contact data	1-pole	2-pole
Contact configuration	1CO, 1NO, 1NC	2CO, 2NO, 2NC
Contact set	single contact	single contact
Type of interruption	micro disconnection	micro disconnection
Rated current	16 A	10 A
Rated voltage / max.switching voltage AC	240/400 VAC	240/400 VAC
Maximum breaking capacity AC	4000 VA	2500 VA
Limiting making capacity, max 4 s, duty factor 10%	25 A	15 A
Contact material	AgCu3, AgCdO	AgCu3, AgCdO
Mechanical endurance	> 2,5x10 ⁵ cycles	
Rated frequency of operation with / without load	15 / 600 min ⁻¹	

Contact ratings

Type	Load	Cycles
1 pole	16 A, 250 VAC, resistive	2,5x10 ⁵
2 pole	10 A, 250 VAC, resistive	2,5x10 ⁵

Coil data

Rated coil voltage range	DC coil	6...110 VDC
	AC coil	6...240 VAC
Coil power	DC coil	1 W
	AC coil	1,8 VA
Operative range		2

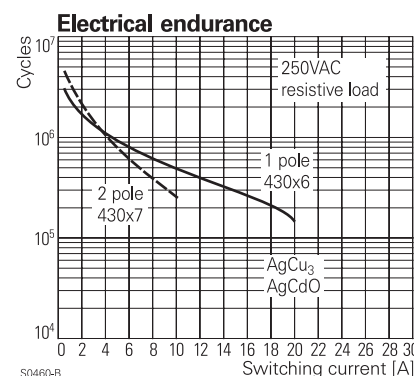
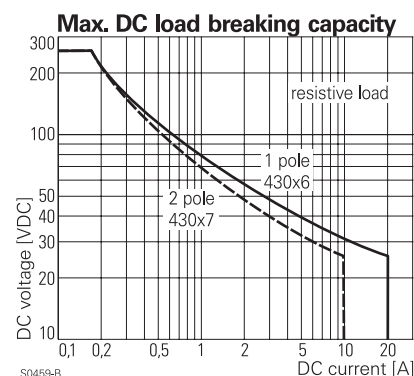
Coil versions, DC-coil

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
03	60	42.0	4.5	7500±10%	480

Coil versions, AC-coil 50Hz

Coil code	Rated voltage VAC	Operate voltage VAC	Release voltage VAC	Coil resistance Ohm	Rated coil power VA
03	24	18.0	3.6	200±10%	1.8
05	60	45.0	9.0	1250±10%	1.8
06	110	83.0	16.0	4500±10%	1.8
07	230	170.0	35.0	17500±10%	1.8
03	60	42.0	4.5	7500±10%	1.8

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



Power Relay 430 (Continued)

Insulation

Dielectric strength coil-contact circuit	4000 V _{rms}
open contact circuit	1000 V _{rms}
Clearance / creepage coil-contact circuit	≥ 8/8 mm
adjacent contact circuits	≥ 3/4 mm
Material group of insulation parts	≥ IIIa
Tracking index of relay base	PTI 380M
Insulation to IEC 60664-1	
Type of insulation coil-contact circuit	reinforced
open contact circuit	functional
adjacent contact circuits	basic
Rated insulation voltage	250 V
Pollution degree	3
Rated voltage system	230/400 V
Overvoltage category	III

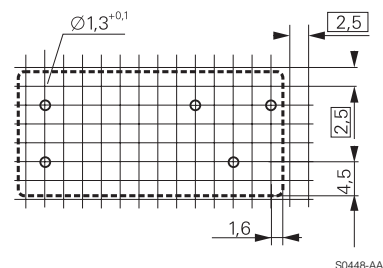
Other data

RoHS - Directive 2002/95/EC	compliant as per product date code 0349
Ambient temperature range	-20...+70°C
Operate- / release time	typ. 18 / 3 ms
Bounce time NO / NC contact	typ. 3 ms
Category of protection	RTI - dust protected
Mounting	pcb, mounting brackets, snap mounting, DIN rail
Resistance to soldering heat	270°C / 10 s
Relay weight	32 g
Packaging unit	50 pcs

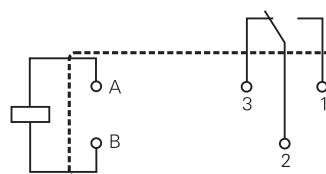
PCB layout / terminal assignment

Bottom view on solder pins

PCB version, 1 CO contact

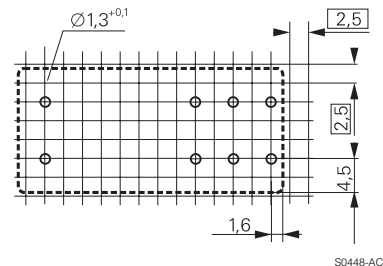


S0448-AA

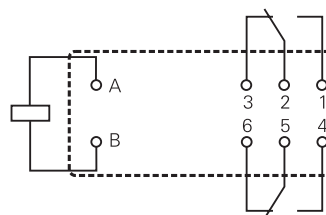


S0448-AB

PCB version, 2 CO contacts



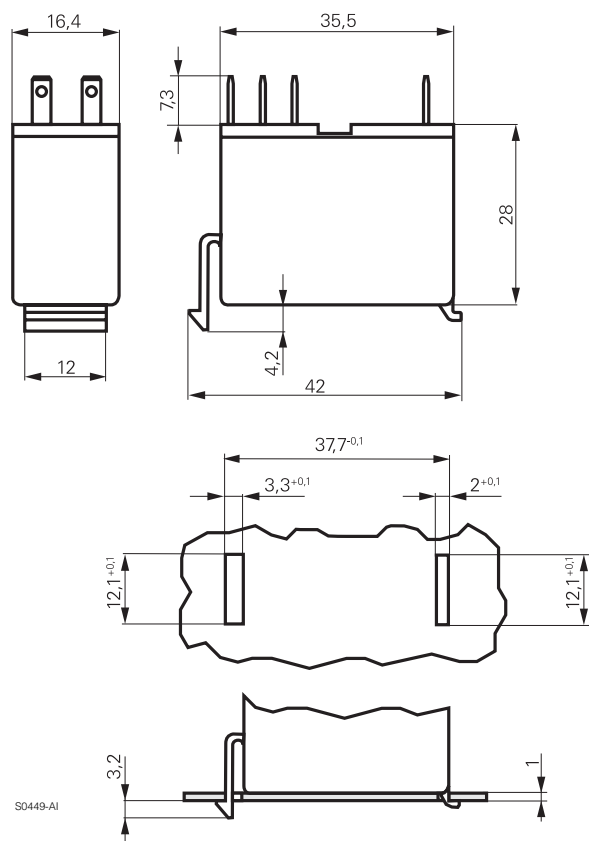
S0448-AC



S0448-AD

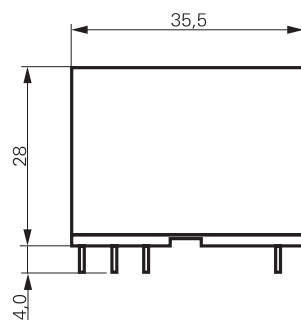
Dimensions

Snap mounting



S0449-AI

Dimensions



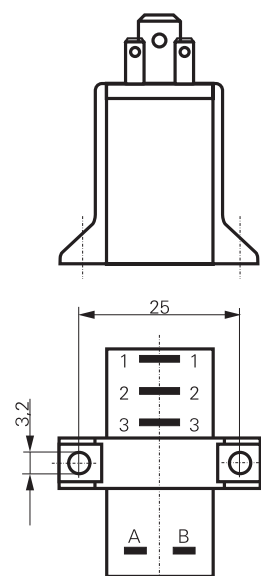
S0449-AA

Power Relay 430 (Continued)

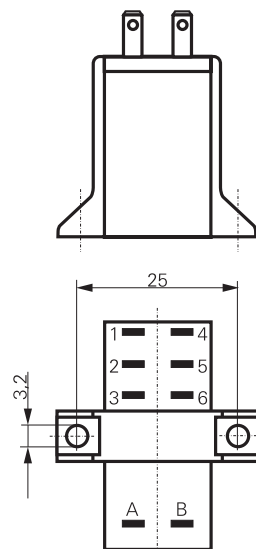
Dimensions

Mounting brackets

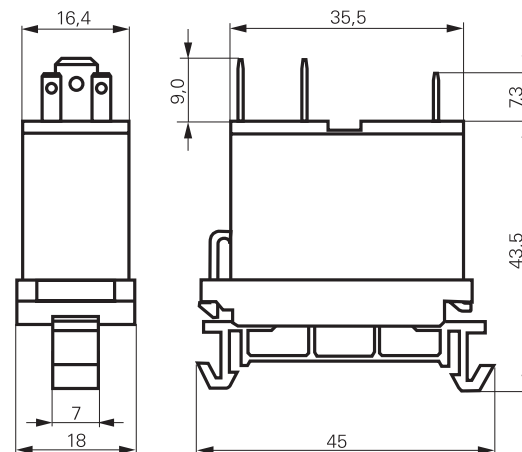
DIN-rail mount



S0449-AC



S0449-AE



S0449-AK

Product key

0 4 3 0

Type

Mounting

0 PCB version
1 mounting brackets

2 snap mounting
5 DIN-rail mounting

Version

6 1 pole
7 2 pole

Coil

Coil code: please refer to coil versions table

Contact material

0 AgCu 3
1 AgCdO

Contact configuration

1 1 NO contact
2 1 NC contact
3 1 CO contact
4 2 NO contacts
5 2 NC contacts
6 2 CO contacts

Other types on request

Product key	Version	Cont-material	Cont.configuration	Coil	Coil	Part number
0430 16 0911 00	mounting brackets	AgCdO	1 NO contact	DC-coil	12 VDC	8-1415430-1
0430 16 1011 00					24 VDC	8-1415430-3
0430 16 1013 00			1 CO contact			8-1415430-5
0430 17 0916 00			2 CO contacts		12 VDC	0-1415404-1
0430 17 1016 00	snap mounting 1.0mm plate			AC-coil	24 VDC	0-1415404-4
0430 26 0713 00			1 CO contact		220 VAC	2-1415404-3
0430 27 0716 00			2 CO contacts			2-1415404-8