

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

Applications

Motors, electro valves



F0257-B

Approvals

VDE REG.-Nr. C820, cULus 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 voltage / max. switching voltage AC	250 / 400 VAC	
Rated current	16 A	10 A
Maximum breaking capacity AC	4000 VA	2500 VA
Limiting making capacity, max 4 s, duty factor 10%	25 A	15 A
Contact material	AgCu ₃ , AgCdO	AgCu ₃ , AgCdO
Rated frequency of operation with / without load	15 / 600 min ⁻¹	

Contact ratings

Type	Contact	Load	Ambient temp. [°C]	Cycles
IEC 61810				
0430 .6 .. 03	CO	16 A, 250 VAC, cosφ=1	70°C	50x10 ³
0430 .6 .. 13 & 11	NO	10 A, 250 VAC, cosφ=1	105°C	50x10 ³
0430 .7 .. 04 & 14	2 NO	10 A, 250 VAC, cosφ=1	70°C	50x10 ³
0430 .7 .. 06 & 16	2 CO	10 A, 250 VAC, cosφ=1	70°C	50x10 ³
0430 .7 .. 04	2 NO	6 A, 250 VAC, cosφ=1	105°C	50x10 ³
0430 .7 .. 06	2 CO	6 A, 250 VAC, cosφ=1	105°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

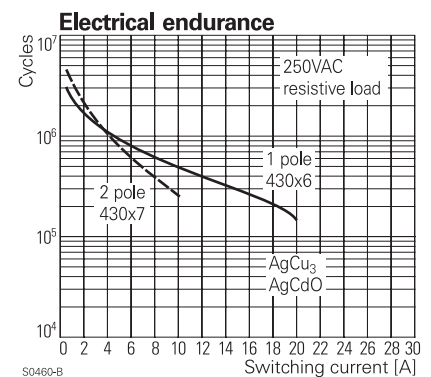
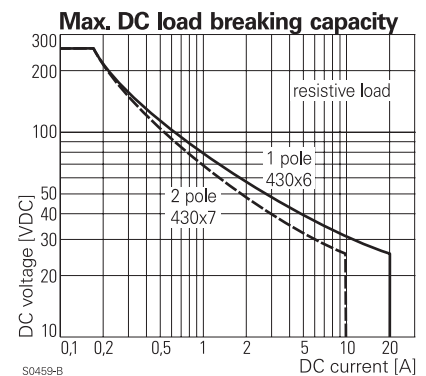
Coil versions, DC-coil

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
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

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 250
Insulation to IEC 61810-1	
Type of insulation coil-contact circuit	reinforced
open contact circuit	micro disconnection
adjacent contact circuits	basic
Rated insulation voltage	250 V
Pollution degree	3
Rated voltage system	230 / 400 V
Overvoltage category	III

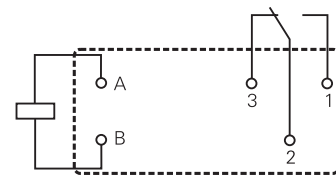
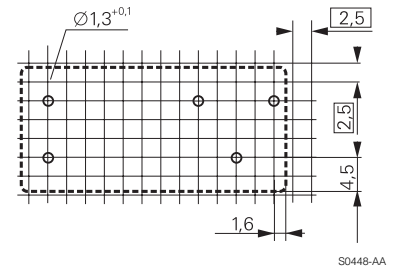
Other data

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
Category of protection	RTI - 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

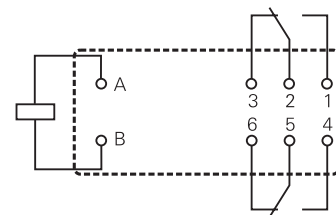
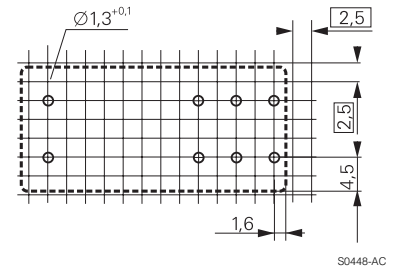
PCB layout / terminal assignment

Bottom view on solder pins

PCB version, 1 CO contact

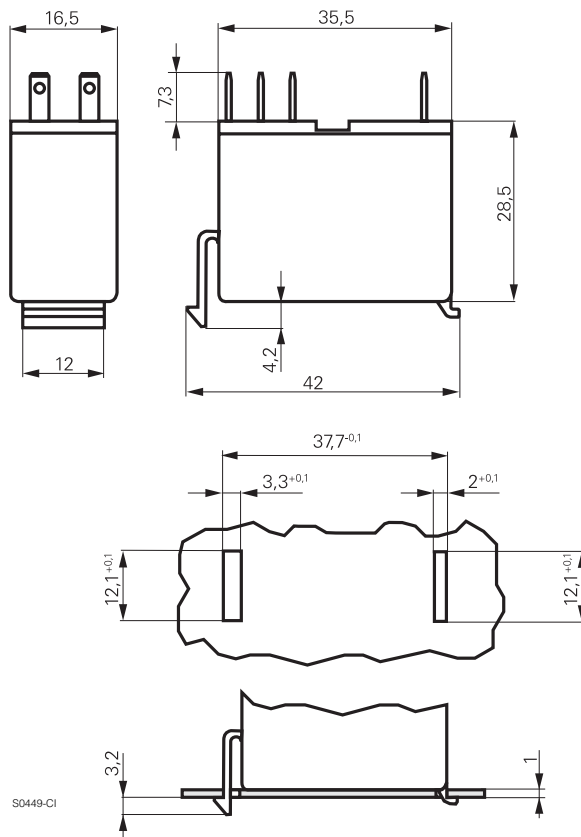


PCB version, 2 CO contacts

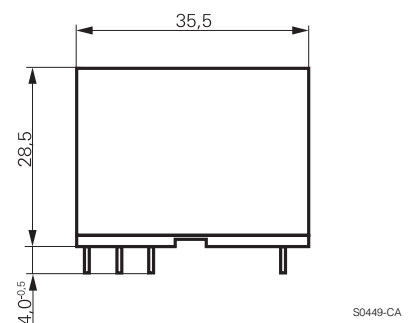


Dimensions

Snap mounting



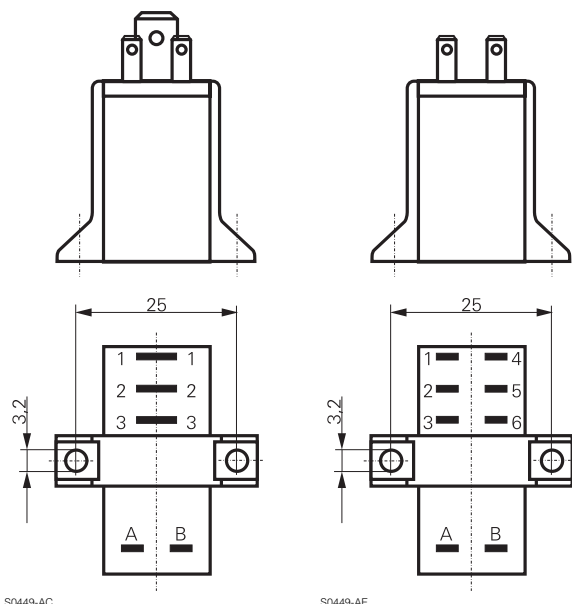
Dimensions



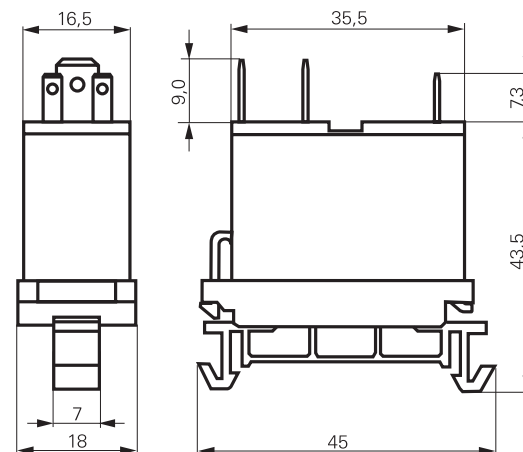
Power Relay 430 (Continued)

Dimensions

Mounting brackets



DIN-rail mount



S0449-CK

Product key

Typical product key

0430 1 6 09 1 1 00

Type

0430

Power relay 430

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 (1 form A)
2 1 NC contact (1 form B)
3 1 CO contact (1 form C)

4 2 NO contacts (2 form A)
5 2 NC contacts (2 form B)
6 2 CO contacts (2 form C)

Version

00 standard

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			1 NO contact		24 VDC	8-1415430-3
0430 16 1013 00			1 CO contact			8-1415430-5
0430 17 0916 00			2 CO contacts		12 VDC	1415404-1
0430 17 1016 00	snap mounting 1.0 mm plate		2 CO contacts	AC-coil	24 VDC	1415404-4
0430 26 0713 00			1 CO contact		220 VAC	2-1415404-3
0430 27 0716 00			2 CO contacts			2-1415404-8