

# **Electronics**

### **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

SCHRACK

### **Approvals**

1 pole: REG.-Nr. A548, 2 pole: REG.-Nr. A516, c 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	r 10% 25 A	15 A
Contact material	AgCu3, AgCdO	AgCu3, AgCdO
Mechanical endurance	> 2,5x1	0 <sup>5</sup> cycles
Rated frequency of operation with / without lo	ad 15 / 6	00 min <sup>-1</sup>

Contact ratings

Contac	i ratingo	
Туре	Load	Cycles
1 pole	16 A, 250 VAC, resistive	2,5x10 <sup>5</sup>
2 pole	10 A, 250 VAC, resistive	2,5x10 <sup>5</sup>

Coil data	
Rated coil voltage range DC coil	6110 VDC
AC coil	6240 VAC
Coil power DC coil	1 W
AC coil	1,8 VA
Operative range	2

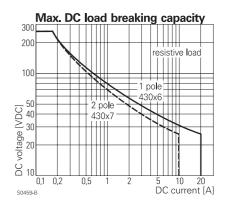
Coil versions, DC-coil

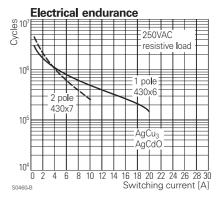
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Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	voltage resistance	
	VDČ	VDČ	VDC	Ohm	mW
09	12	7.8	0.6	145±10%	993
10	24	15.6	1.2	580±10%	993
11	48	31.2	2.4	2200±10%	1047
13	110	71.5	5.5	13000±10%	931
03	60	42.0	4.5	7500±10%	480
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Coil versions, AC-coil 50Hz

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	oltage voltage re		power
	VAC	VAC	VAC	Ohm	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)

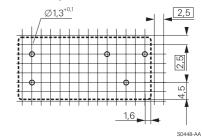
Insulation	
Dielectric strength coil-contact circuit	4000 V <sub>rms</sub>
open contact circuit	1000 V <sub>rms</sub>
Clearance / creepage coil-contact circuit	≥ 8/8 mm
adjacent contact circuits	≥ 3/4 mm
Material group of insulation parts	≥ IIIa
Tracking index of relay base	PTI 380M
Insulation to IEC 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

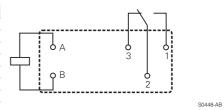
Other data	
RoHS - Directive 2002/95/EC	compliant as per product date code 0349
Ambient temperature range	-20+70°C
Operate- / release time	typ. 18 / 3 ms
Bounce time NO / NC contact	typ. 3 ms
Category of protection	RTI - dust protected
Mounting	pcb, mounting brackets, snap mounting, DIN rail
Resistance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

# **PCB layout / terminal assignment**Bottom view on solder pins

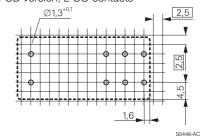
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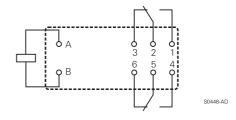
### PCB version, 1 CO contact



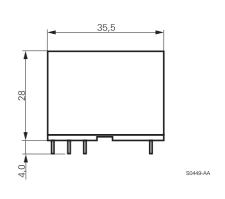


PCB version, 2 CO contacts



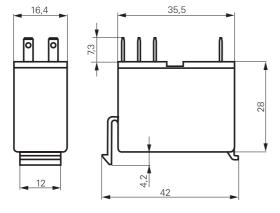


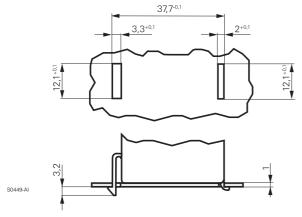
### **Dimensions**



### **Dimensions**

Snap mounting









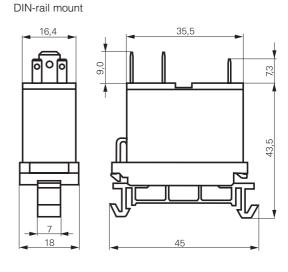
# **Electronics**

S0449-AC

### Power Relay 430 (Continued)

# Dimensions Mounting brackets | Dimensions |

S0449-AE



Product key 4 3 0 0 0 0 Type Mounting 0 PCB version snap mounting DIN-rail mounting mounting brackets Version 6 1 pole 2 pole Coil Coil code: please refer to coil versions table Contact material O AgCu 3 AgCdO Contact configuration 1 NO contact 2 NO contacts 1 NC contact 5 2 NC contacts 1 CO contact 6 2 CO contacts 3

S0449-AK

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					24 VDC	0-1415404-4
0430 26 0713 00	snap mounting		1 CO contact	AC-coil	220 VAC	2-1415404-3
0430 27 0716 00	1.0mm plate		2 CO contacts			2-1415404-8

Other types on request