

## Power Relay 430 3mm

- 1 pole 16A, 1 form A (NO) contact
- Safety mains isolation
- Contact gap >3mm
- DC and AC coil
- 4kV/8mm 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 IEC 60335-1

### Typical applications

Domestic appliances, industrial appliances, industrial controls



F0256-B

### Approvals

VDE REG.-Nr. C820, UL E214024

Technical data of approved types on request

### Contact Data

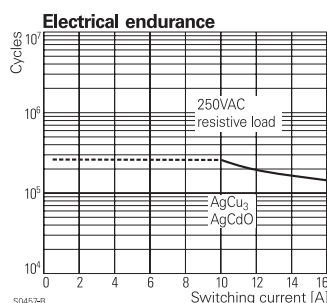
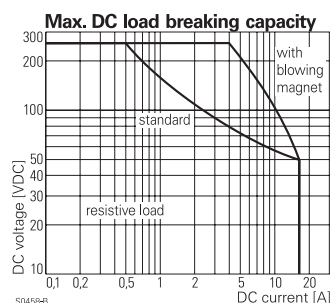
|                                                   |                           |
|---------------------------------------------------|---------------------------|
| Contact arrangement                               | 1 form A (NO)             |
| Contact gap                                       | >3mm                      |
| Rated voltage                                     | 250VAC                    |
| Max. switching voltage                            | 400VAC                    |
| Rated current                                     | 16A                       |
| Limiting making current, max 4 s, duty factor 10% | 25A                       |
| Breaking capacity max.                            | 4000VA                    |
| Contact material                                  | AgCu <sub>3</sub> , AgCdO |
| Contact style                                     | bifurcated contact        |
| Frequency of operation, with/without load         | 900/18000h <sup>-1</sup>  |

### Contact ratings

| Type             | Contact | Load                      | Cycles |
|------------------|---------|---------------------------|--------|
| <b>IEC 61810</b> |         |                           |        |
| 0430 .4 .. 0     | A (NO)  | 16A, 250VAC, cosφ=1, 70°C | 50x103 |
| 0430 .4 .. 1     | A (NO)  | 16A, 250VAC, cosφ=1, 70°C | 50x103 |

### Mechanical endurance

|         |                                 |
|---------|---------------------------------|
| DC coil | >250x10 <sup>3</sup> operations |
| AC coil | >250x10 <sup>3</sup> operations |



### Coil Data

|                            |             |
|----------------------------|-------------|
| Coil voltage range         |             |
| DC coil                    | 6 to 110VDC |
| AC coil                    | 6 to 240VAC |
| Operative range, IEC 61810 | 2           |

### Coil versions, DC coil

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

All figures are given for coil without pre-energization, at ambient temperature +23°C.

Other coil voltages on request.

### Coil versions, AC coil, 50Hz

| Coil code | Rated voltage VAC | Operate voltage VAC | Release voltage VAC | Coil resistance Ω±10% | Rated coil power VA |
|-----------|-------------------|---------------------|---------------------|-----------------------|---------------------|
| 23        | 24                | 18                  | 3.6                 | 145                   | 1.8                 |
| 25        | 60                | 45                  | 9                   | 950                   | 1.8                 |
| 26        | 110               | 83                  | 16                  | 3100                  | 1.8                 |
| 27        | 230               | 175                 | 35                  | 11400                 | 1.8                 |
| 28        | 240               | 185                 | 36                  | 13000                 | 1.8                 |

All figures are given for coil without pre-energization, at ambient temperature +23°C, 50Hz.

Other coil voltages on request.

### Insulation Data

|                                    |                      |
|------------------------------------|----------------------|
| Initial dielectric strength        |                      |
| between open contacts              | 2000V <sub>rms</sub> |
| between contact and coil           | 4000V <sub>rms</sub> |
| Clearance/creepage                 |                      |
| between contact and coil           | ≥8/8mm               |
| Material group of insulation parts | IIIa                 |
| Tracking index of relay base       | PTI250               |

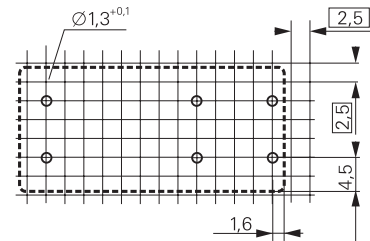
**Power Relay 430 3mm** (Continued)

**Other Data**

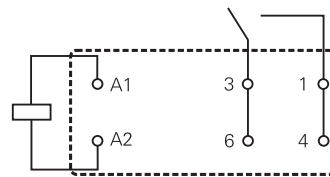
|                                                                                                                                                                                                                                       |                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at <a href="http://www.te.com/customersupport/rohssupportcenter">www.te.com/customersupport/rohssupportcenter</a> |                                                    |
| Resistance to heat and fire                                                                                                                                                                                                           | according EN60335, par.30                          |
| Ambient temperature                                                                                                                                                                                                                   | -20 to +70°C                                       |
| Category of environmental protection                                                                                                                                                                                                  | IEC 61810                                          |
| Shock resistance (destructive)                                                                                                                                                                                                        | RTI - dust protected<br>100g                       |
| Terminal type                                                                                                                                                                                                                         | PCB-THT, quick connect                             |
| Mounting                                                                                                                                                                                                                              | PCB, mounting brackets,<br>snap mounting, DIN rail |
| Weight                                                                                                                                                                                                                                | 32g                                                |
| Resistance to soldering heat THT                                                                                                                                                                                                      | IEC 60068-2-20<br>270°C/10s                        |
| Packaging unit                                                                                                                                                                                                                        | 50 pcs.                                            |

**PCB layout / terminal assignment**

Bottom view on solder pins



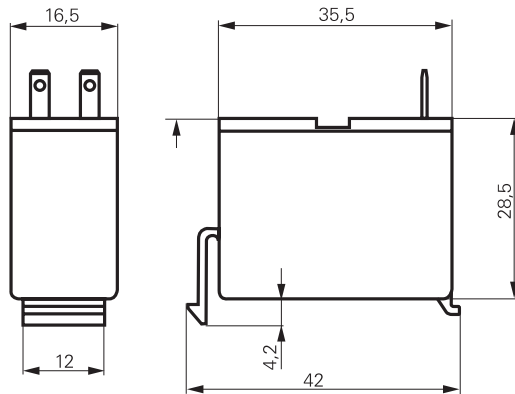
S0448-AE



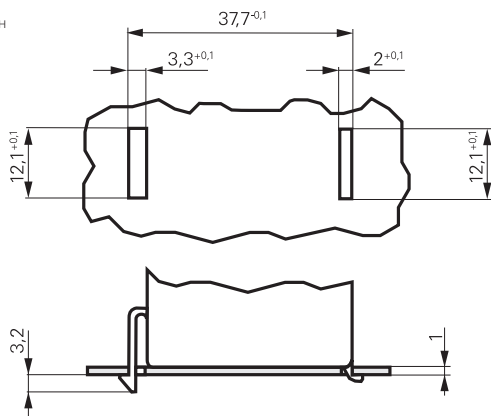
S0448-AF

**Dimensions**

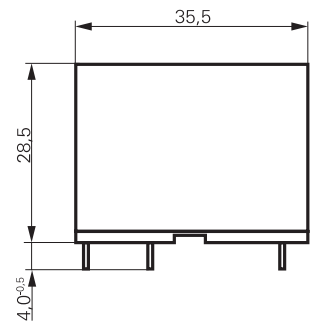
Snap mounting



S0449-CH



PCB mounting



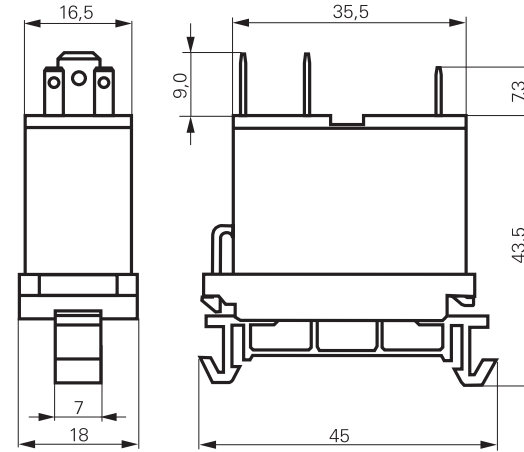
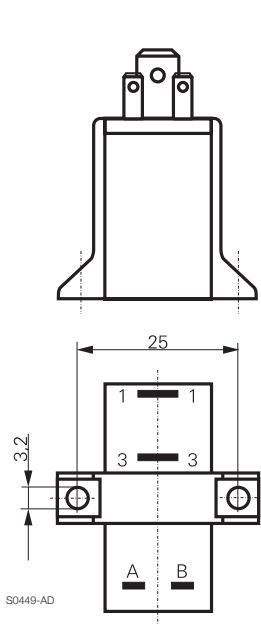
S0449-CB

**Power Relay 430 3mm** (Continued)

**Dimensions**

Mounting brackets

DIN-rail mount



**Product code structure**

Typical product code **0430 2 5 09 1 100**

|                                                |  |                     |  |
|------------------------------------------------|--|---------------------|--|
| <b>Type</b>                                    |  |                     |  |
| 0430 Power relay 430 3mm                       |  |                     |  |
| <b>Mounting</b>                                |  |                     |  |
| 0 PCB version                                  |  | 2 Snap mounting     |  |
| 1 Mounting brackets                            |  | 5 DIN-rail mounting |  |
| <b>Contact design</b>                          |  |                     |  |
| 4 Arc blowing magnet                           |  |                     |  |
| 5 Standard                                     |  |                     |  |
| <b>Coil</b>                                    |  |                     |  |
| Coil code: please refer to coil versions table |  |                     |  |
| <b>Contact material</b>                        |  |                     |  |
| 0 AgCu 3                                       |  | 1 AgCdO             |  |
| <b>Version</b>                                 |  |                     |  |
| 100 Standard                                   |  |                     |  |

Other types on request

| Product code    | Mounting      | Cont. material | Cont.arrangement | Coil    | Part number |
|-----------------|---------------|----------------|------------------|---------|-------------|
| 0430 25 0911 00 | Snap mounting | AgCdO          | 1 form A         | DC coil | 1-1415404-1 |
| 0430 25 1011 00 | 1.0mm plate   |                | 1 NO contact     |         | 1-1415404-3 |
| 0430 25 2811 00 |               |                |                  | AC coil | 1-1415404-6 |

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