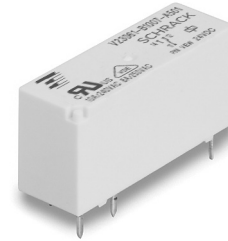


## Miniature Power PCB Relay MSR V23061

- 1 pole 8/10A, 1form C (CO) or 1 form A (NO) contact
- High inrush currents with AgSnO<sub>2</sub> contacts (TV4 0 65A)
- 4kV/8mm coil-contact
- Reinforced insulation (protection class II)
- Ambient temperature up to 85°C at 8A
- Plastic materials according to IEC 60335-1 (domestic appliances)



### Typical applications

HVAC, interface technology, PLC's, power supplies, TV-/monitor control, domestic appliances, Hi-Fi products, timers.



### Approvals

VDE Cert. No. 40017849, UL E214025

Technical data of approved types on request.

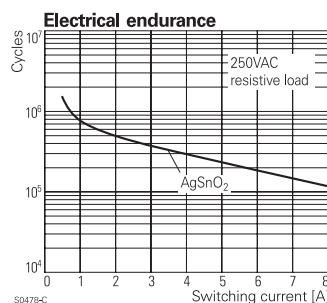
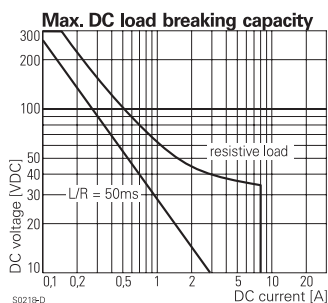
### Contact Data

|                                           |                                |
|-------------------------------------------|--------------------------------|
| Contact arrangement                       | 1 form C (CO) or 1 form A (NO) |
| Rated voltage                             | 250VAC                         |
| Max. switching voltage                    | 400VAC                         |
| Rated current                             |                                |
| versions A,B                              | 8A                             |
| versions C, D                             | 10A                            |
| Limiting making current, max 4s, df 10%   | 15A                            |
| version A302, max 20ms                    | 65A                            |
| Breaking capacity max.                    | 2000VA                         |
| Contact material                          | AgSnO <sub>2</sub> , AgNi90/10 |
| Frequency of operation, with/without load | 6/1200min-1                    |
| Operate/release time max.                 | 10/5ms                         |
| Bounce time max., form A/form B           | 3/10ms                         |

### Contact ratings

| Type              | Contact | Load                               | Cycles              |
|-------------------|---------|------------------------------------|---------------------|
| <b>IEC 61810</b>  |         |                                    |                     |
| V23061-A1***-A302 | A (NO)  | 8A, 250VAC, cosφ=1, 85°C           | 100x10 <sup>3</sup> |
| V23061-C2***-A802 | A (NO)  | 10A, 250VAC, cosφ=1, 85°C          | 100x10 <sup>3</sup> |
| V23061-C2***-A802 | A (NO)  | 5A, 250VAC, cosφ=1, 105°C          | 100x10 <sup>3</sup> |
| <b>UL 508</b>     |         |                                    |                     |
| V23061-A1***-A302 | A (NO)  | TV4, Tungsten, 120VAC, 40°C        | 25x10 <sup>3</sup>  |
| V23061-A1***-A302 | A (NO)  | Pilot duty, A300, 40°C             | 6x10 <sup>3</sup>   |
| V23061-C2***-A802 | A (NO)  | 10A, 240VAC, general purpose, 40°C | 30x10 <sup>3</sup>  |
| <b>EN60730-1</b>  |         |                                    |                     |
| V23061-A1***-A302 | A (NO)  | 2(2)A, 250VAC, 85°C                | 100x10 <sup>3</sup> |
| V23061-C2***-A802 | A (NO)  | 4(4)A, 250VAC, 85°C                | 100x10 <sup>3</sup> |

Mechanical endurance, DC coil 10x10<sup>6</sup> operations



### Coil Data

|                                     |                  |
|-------------------------------------|------------------|
| Coil voltage range                  | 3 to 60VDC       |
| Operative range, IEC 61810          | 2                |
| Coil insulation system according UL | classA or classF |

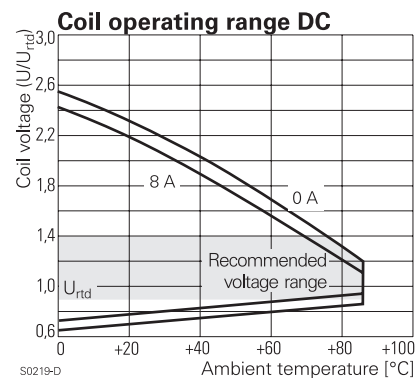
### Coil versions, DC coil

| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance Ω±10% <sup>1)</sup> | Rated coil power mW |
|-----------|-------------------|---------------------|---------------------|-------------------------------------|---------------------|
| 001       | 3                 | 2.1                 | 0.3                 | 40                                  | 225                 |
| 002       | 5                 | 3.4                 | 0.5                 | 118                                 | 212                 |
| 003       | 6                 | 4.1                 | 0.6                 | 165                                 | 218                 |
| 004       | 9                 | 6.1                 | 0.9                 | 364                                 | 223                 |
| 005       | 12                | 8.2                 | 1.2                 | 652                                 | 221                 |
| 007       | 24                | 16.3                | 2.4                 | 2270                                | 254                 |
| 009       | 48                | 32.6                | 4.8                 | 8790                                | 262                 |
| 010       | 60                | 40.8                | 6.0                 | 15265 <sup>1)</sup>                 | 236                 |

1) Coil resistance ±15%.

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

Other coil voltages on request.



### Insulation Data

|                                    |                     |
|------------------------------------|---------------------|
| Initial dielectric strength        |                     |
| between open contacts              | 1000V <sub>ms</sub> |
| between contact and coil           | 4000V <sub>ms</sub> |
| Clearance/creepage                 |                     |
| between contact and coil           | ≥8/8mm              |
| Material group of insulation parts | IIIa                |

**Miniature Power PCB Relay MSR V23061** (Continued)

**Other Data**

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at [www.te.com/customersupport/rohssupportcenter](http://www.te.com/customersupport/rohssupportcenter)

Ambient temperature - 40 to +85°C

Category of environmental protection  
IEC 61810 RTII - flux proof,  
RTIII - wash tight

Vibration resistance (functional)  
form A (NO) / form B (NC) 10/4g

Vibration resistance (destructive)  
form A (NO) / form B (NC) 20/5g

Shock resistance (destructive) 100g

Terminal type PCB-THT

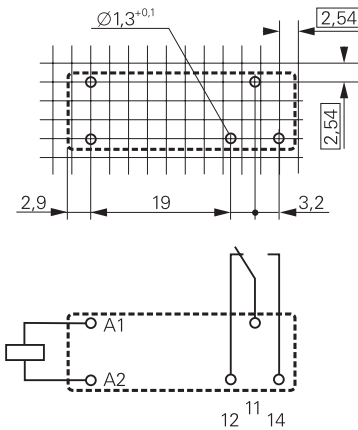
Weight 11g

Resistance to soldering heat THT  
IEC 60068-2-20 RTII: 270°C/10s  
RTIII: 260°C/5s

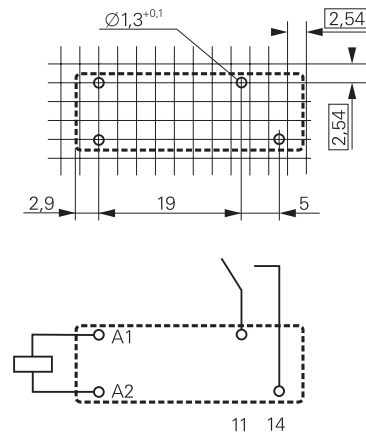
Packaging/unit tube/20 pcs., box/500 pcs.

**PCB layout / terminal assignment**

1 form C, 1 CO contact, 3.2mm

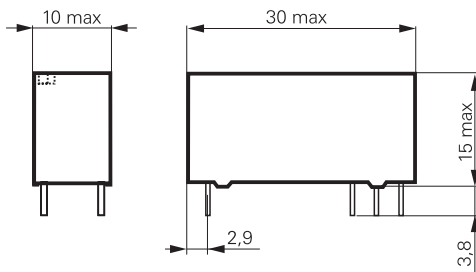


1 form A, 1 NO contact, 5mm

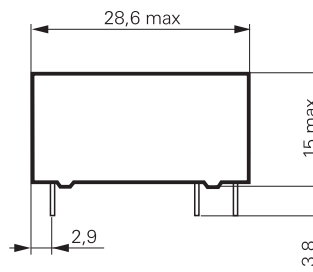


**Dimensions**

1 form C, 1 CO contact, 3.2mm



1 form A, 1 NO contact, 5mm



**Miniature Power PCB Relay MSR V23061** (Continued)

**Product code structure**

Typical product code

**V23061**
**-A**
**1**
**007**
**-A**
**3**
**02**
**Type**
**V23061**

Miniature Power PCB Relay MSR

**Version**

- A** 1 form A contact (1 NO), UL-class A
- B** 1 form C contact (1 CO), UL-class A
- C** 1 form A contact (1 NO), UL-class F
- D** 1 form C contact (1 CO), UL-class F

**Version**

- 1** Wash tight
- 2** Flux proof

**Coil**

Coil-code: please refer to coil versions table

**Contact system**

- A** Standard

**Contact material**

- 3** AgSnO<sub>2</sub>
- 8** AgNi 90/10

**Contact information**

- 01** 1 form C (CO) contact
- 02** 1 form A (NO) contact

Other types on request

| Product code      | Version    | Contacts     | Contact material   | Coil  | Part Number |
|-------------------|------------|--------------|--------------------|-------|-------------|
| V23061-A1002-A302 | Wash tight | 1 form A     | AgSnO <sub>2</sub> | 5VDC  | 1393222-4   |
| V23061-A1003-A302 |            | 1 NO contact |                    | 6VDC  | 1393222-9   |
| V23061-A1005-A302 |            |              |                    | 12VDC | 2-1393222-0 |
| V23061-A1007-A302 |            |              |                    | 24VDC | 3-1393222-9 |
| V23061-B1002-A301 |            | 1 form C     |                    | 5VDC  | 7-1393222-2 |
| V23061-B1005-A301 |            | 1 CO contact |                    | 12VDC | 9-1393222-1 |
| V23061-B1007-A301 |            |              |                    | 24VDC | 1-1393223-7 |
| V23061-B1009-A301 |            |              |                    | 48VDC | 3-1393223-7 |
| V23061-C2001-A802 | Flux proof | 1 form A     | AgNi 90/10         | 3VDC  | 5-1416200-3 |
| V23061-C2002-A802 |            | 1 NO contact |                    | 5VDC  | 5-1416200-4 |
| V23061-C2003-A802 |            |              |                    | 6VDC  | 5-1416200-5 |
| V23061-C2004-A802 |            |              |                    | 9VDC  | 5-1416200-6 |
| V23061-C2005-A802 |            |              |                    | 12VDC | 5-1416200-0 |
| V23061-C2007-A802 |            |              |                    | 24VDC | 5-1416200-8 |
| V23061-C2009-A802 |            |              |                    | 48VDC | 6-1416200-0 |
| V23061-C2010-A802 |            |              |                    | 60VDC | 6-1416200-1 |
| V23061-D2001-A801 |            | 1 form C     |                    | 3VDC  | 6-1416200-2 |
| V23061-D2002-A801 |            | 1 CO contact |                    | 5VDC  | 6-1416200-3 |
| V23061-D2003-A801 |            |              |                    | 6VDC  | 6-1416200-4 |
| V23061-D2004-A801 |            |              |                    | 9VDC  | 6-1416200-5 |
| V23061-D2005-A801 |            |              |                    | 12VDC | 6-1416200-6 |
| V23061-D2007-A801 |            |              |                    | 24VDC | 6-1416200-7 |
| V23061-D2009-A801 |            |              |                    | 48VDC | 6-1416200-9 |
| V23061-D2010-A801 |            |              |                    | 60VDC | 7-1416200-0 |

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)