

**Cradle W Relay V23005**

- Highly reliable
- Great variety of contact arrangements and materials to meet specific applications
- Contacts for signal loads and currents up to 5A
- For AC operating only
- Neutral, monostable

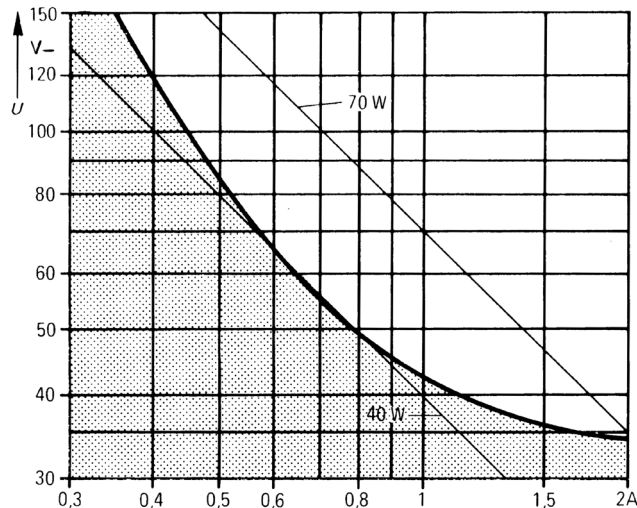


Typical applications  
Operation of the coil with alternating voltage, machine controls

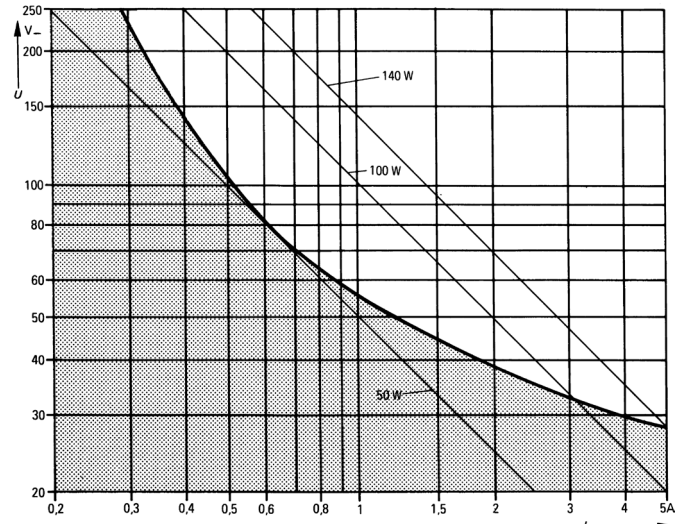
**Contact Data**

| Product code block 3  | B104/B110   | B604/B610                 | C104/C110                 | C404/C410                 | F104 to F107              |
|---|---|---------------------------|---------------------------|---------------------------|---------------------------|
| Contact arrangement   | max. 4 form C (4CO) contacts, 2 form B (2 NC) contacts or 2 form A (2 NO) contacts (see product code table) |                           |                           |                           |                           |
| Max. switching voltage                                      | 150VDC  | 36VDC                     | 150VDC                    | 36VDC                     | 250VDC                    |
|   | 125VAC  | 30VAC                     | 125VAC                    | 30VAC                     | 250VAC                    |
| Rated current   | 2A  | 0.2A                      | 2A                        | 0.2A                      | 5A                        |
| Limiting continuous current at max. ambient temperature     | 2A  | 2A                        | 2A                        | 2A                        | 5A                        |
|   | 35 to 70W   | 5W, 5VA                   | 35 to 70W                 | 5W, 5VA                   | 50 to 140W                |
| Breaking capacity see DC load breaking capacity curve below | 50VA  |                           | 50VA                      |                           | 500VA                     |
| Contact material  | silver, gold-flashed  | gold F                    | silver, gold-flashed      | gold F                    | silver, gold-flashed      |
| Contact style   | single contact  | single contact            | bifurcated contacts       | bifurcated contacts       | single contact            |
| Frequency of operation, without load, max.                  | 20 ops./s   | 20 ops./s                 | 20 ops./s                 | 20 ops./s                 | 20 ops./s                 |
| Mechanical endurance  | app. 10 <sup>7</sup> ops.   | app. 10 <sup>7</sup> ops. | app. 10 <sup>7</sup> ops. | app. 10 <sup>7</sup> ops. | app. 10 <sup>8</sup> ops. |

**Max. DC breaking capacity, contact sets B1xx, C1xx**



**Max. DC breaking capacity, contact sets F1xx**



**Cradle W Relay V23005** (Continued)

**Coil Data**

|                            |                           |
|----------------------------|---------------------------|
| Magnetic system            | neutral                   |
| Coil voltage range         | 6 to 220 VAC (50Hz/ 60Hz) |
| Operative range, IEC 61810 | 1                         |
| Operating voltage          | 80% of rated coil voltage |
| Rated coil power, typ.     | 1.15VA                    |
| Max. coil temperature      | 100°C                     |
| Thermal resistance         | 35K/W                     |

**Coil versions, AC coil**

| Coil code | Rated voltage VAC | Operate voltage VAC | Coil resistance $\Omega \pm 15\%$ | Rated coil power VA <sup>1)</sup> |
|-----------|-------------------|---------------------|-----------------------------------|-----------------------------------|
| 015       | 6                 | 4.8                 | 8                                 | 1.15                              |
| 017       | 12                | 9.6                 | 40                                | 1.15                              |
| 021       | 18                | 14.4                | 108                               | 1.15                              |
| 010       | 24                | 19.2                | 170                               | 1.15                              |
| 009       | 42                | 33.6                | 550                               | 1.15                              |
| 019       | 48                | 38.4                | 620                               | 1.15                              |
| 008       | 60                | 48                  | 1000                              | 1.15                              |
| 007       | 110               | 88                  | 3200                              | 1.15                              |
| 004       | 220               | 176                 | 14000                             | 1.15                              |

1) Typical value.

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

**Insulation Data** B1xx, B6xx, C1xx, C4xx F1xx

|  |  |                        |
|--|--|------------------------|
| Initial dielectric strength between coil and frame | 500VAC <sub>rms</sub> at rated voltages $\leq 60V$<br>2000VAC <sub>rms</sub> at rated voltages $> 60V$ |                        |
| between contact and contact                        | 500VAC <sub>rms</sub>  | 1000VAC <sub>rms</sub> |
| between contact and frame                          | 500VAC <sub>rms</sub>  | 1000VAC <sub>rms</sub> |
| Initial insulation resistance, at 500 VDC          | $> 10^6 \Omega$  |                        |

**Other Data**

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

|  |  |
|--|--|
| Ambient temperature                            | -40 to + 70°C  |
| Category of environmental protection IEC 61810 | RT I - dust protected  |
| Degree of protection, IEC 60529                | IP 40  |
| Terminal type                                  | solder terminals, suitable for plug-in-and socket connection plus screw fixing |

|                     |   |
|---------------------|---|
| Weight              | V23003-A0xxx Size I approx. 35g<br>V23003-B0xxx Size II approx. 40g |
| Washing             | not recommended   |
| Ultrasonic cleaning | not recommended   |
| Packaging unit      | 5 pcs.  |

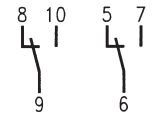
**Accessories**

For details see datasheet Cradle Relay, Accessories and Mounting

**Terminal assignment**

**Size I**

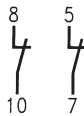
2 form C (2 CO)  
V23005-xxxx-Bx04  
V23005-xxxx-Cx04



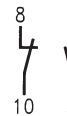
2 form A (2 NO)  
V23005-xxxx-F105



2 form B (2 NC)  
V23005-xxxx-F107

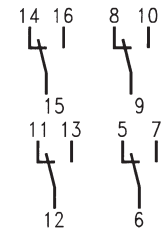


1 form A + 1 form B  
(1 NO + 1 NC)  
V231005-xxxx-F106

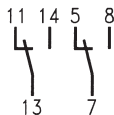


**Size II**

4 form C (4 CO)  
V231005-xxxx-Bx10  
V231005-xxxx-Cx10



2 form C (2 CO)  
V231005-xxxx-F104

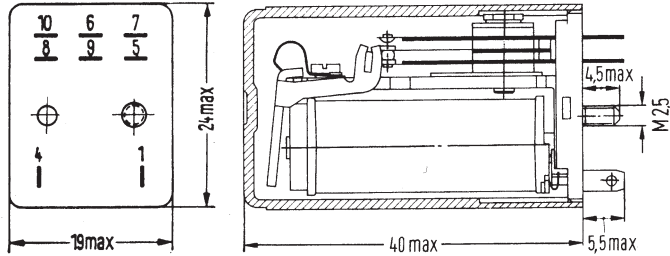


Coil terminals: 1, 4

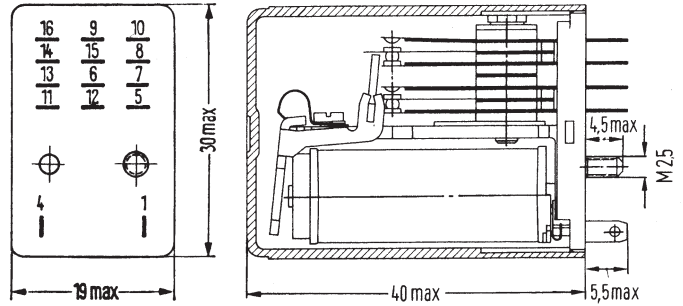
**Cradle W Relay V23005** (Continued)

**Dimensions**

V23005-A0xx, size I type



V23005-B0xx, size II type



**Product code structure**

Typical product code **V23005 -B0 004 -F104**

|                            |   |  |                                   |
|----------------------------|---|--|-----------------------------------|
| <b>Type</b>                | V23005 Cradle W Relay                                   |  |                                   |
| <b>Size</b>                | A0 Size I, dust protected<br>B0 Size II, dust protected |  |                                   |
| <b>Coils</b>               | Coil code: please refer to coil versions table          |  |                                   |
| <b>Contact style</b>       | B1 Single contacts<br>C1 Bifurcated contacts            | B6 Single contacts<br>C4 Bifurcated contacts | F1 Single contacts                |
| <b>Contact arrangement</b> | 04 2 form C, 2 CO<br>10 4 form C, 4 CO                  | 05 2 form A, 1 NO<br>12 6 form A, 6 NO       | 06 1 form A+ 1 form B, 1 NO+ 1 NC |

Other types on request

**Cradle W Relay V23005** (Continued)

| Product code                           | Version           | Coil   | Arrangement           | Contacts   | Enclosure      | PartNumber  |
|--|-------------------|--------|-----------------------|------------|----------------|-------------|
| <b>V23005-AXXXX, standard, size I</b>  |                   |        |                       |            |                |             |
| V23005-A0017-B104                      | Standard, size I  | 12VAC  | 2 form C (2 CO)       | Single     | Dust protected | 1-1393816-8 |
| V23005-A0021-C104                      | Standard, size I  | 18VAC  | 2 form C (2 CO)       | Bifurcated | Dust protected | 2-1393816-0 |
| V23005-A0010-B104                      | Standard, size I  | 24VAC  | 2 form C (2 CO)       | Single     | Dust protected | 1-1393816-7 |
| V23005-A0009-B104                      | Standard, size I  | 42VAC  | 2 form C (2 CO)       | Single     | Dust protected | 1-1393816-5 |
| V23005-A0019-B104                      | Standard, size I  | 48VAC  | 2 form C (2 CO)       | Single     | Dust protected | 1-1393816-9 |
| V23005-A0008-B104                      | Standard, size I  | 60VAC  | 2 form C (2 CO)       | Single     | Dust protected | 1-1393816-4 |
| V23005-A0007-B104                      | Standard, size I  | 110VAC | 2 form C (2 CO)       | Single     | Dust protected | 1393816-8   |
| V23005-A0007-B604                      | Standard, size I  | 110VAC | 2 form C (2 CO)       | Single     | Dust protected | 1-1393816-0 |
| V23005-A0007-C104                      | Standard, size I  | 110VAC | 2 form C (2 CO)       | Bifurcated | Dust protected | 1-1393816-1 |
| V23005-A0004-B104                      | Standard, size I  | 220VAC | 2 form C (2 CO)       | Single     | Dust protected | 1393816-1   |
| V23005-A0004-B604                      | Standard, size I  | 220VAC | 2 form C (2 CO)       | Single     | Dust protected | 1393816-3   |
| V23005-A0004-C104                      | Standard, size I  | 220VAC | 2 form C (2 CO)       | Bifurcated | Dust protected | 1393816-4   |
| <b>V23005-AXXXX, 5A, size I</b>        |                   |        |                       |            |                |             |
| V23005-A0009-F106                      | 5A, size I        | 42VAC  | 1 A + 1 B (1 NO+1 NO) | Single     | Dust protected | 1-1393816-6 |
| V23005-A0007-F105                      | 5A, size I        | 110VAC | 2 form A (2 NO)       | Single     | Dust protected | 1-1393816-2 |
| V23005-A0007-F106                      | 5A, size I        | 110VAC | 1 A + 1 B (1 NO+1 NO) | Single     | Dust protected | 1-1393816-3 |
| V23005-A0004-F105                      | 5A, size I        | 220VAC | 2 form A (2 NO)       | Single     | Dust protected | 1393816-6   |
| V23005-A0004-F106                      | 5A, size I        | 220VAC | 1 A + 1 B (1 NO+1 NO) | Single     | Dust protected | 1393816-7   |
| <b>V23005-BXXXX, standard, size II</b> |                   |        |                       |            |                |             |
| V23005-B0017-B110                      | Standard, size II | 12VAC  | 4 form C (4 CO)       | Single     | Dust protected | 4-1393816-5 |
| V23005-B0010-B110                      | Standard, size II | 24VAC  | 4 form C (4 CO)       | Single     | Dust protected | 4-1393816-0 |
| V23005-B0010-C110                      | Standard, size II | 24VAC  | 4 form C (4 CO)       | Bifurcated | Dust protected | 4-1393816-1 |
| <b>V23005-B0010-C410</b>               |                   |        |                       |            |                |             |
| V23005-B0009-B110                      | Standard, size II | 42VAC  | 4 form C (4 CO)       | Single     | Dust protected | 3-1393816-7 |
| V23005-B0009-C110                      | Standard, size II | 42VAC  | 4 form C (4 CO)       | Bifurcated | Dust protected | 3-1393816-8 |
| V23005-B0008-B110                      | Standard, size II | 60VAC  | 4 form C (4 CO)       | Single     | Dust protected | 3-1393816-5 |
| V23005-B0007-B110                      | Standard, size II | 110VAC | 4 form C (4 CO)       | Single     | Dust protected | 3-1393816-0 |
| V23005-B0007-B610                      | Standard, size II | 110VAC | 4 form C (4 CO)       | Single     | Dust protected | 3-1393816-1 |
| V23005-B0007-C110                      | Standard, size II | 110VAC | 4 form C (4 CO)       | Bifurcated | Dust protected | 3-1393816-2 |
| V23005-B0007-C410                      | Standard, size II | 110VAC | 4 form C (4 CO)       | Bifurcated | Dust protected | 3-1393816-3 |
| V23005-B0004-B110                      | Standard, size II | 220VAC | 4 form C (4 CO)       | Single     | Dust protected | 2-1393816-2 |
| V23005-B0004-B610                      | Standard, size II | 220VAC | 4 form C (4 CO)       | Single     | Dust protected | 2-1393816-4 |
| V23005-B0004-C110                      | Standard, size II | 220VAC | 4 form C (4 CO)       | Bifurcated | Dust protected | 2-1393816-5 |
| V23005-B0004-C410                      | Standard, size II | 220VAC | 4 form C (4 CO)       | Bifurcated | Dust protected | 2-1393816-6 |
| <b>V23005-BXXXX, 5A, size II</b>       |                   |        |                       |            |                |             |
| V23005-B0015-F104                      | 5A, size II       | 6VAC   | 2 form C (2 CO)       | Single     | Dust protected | 4-1393816-4 |
| V23005-B0017-F104                      | 5A, size II       | 12VAC  | 2 form C (2 CO)       | Single     | Dust protected | 4-1393816-6 |
| V23005-B0010-F104                      | 5A, size II       | 24VAC  | 2 form C (2 CO)       | Single     | Dust protected | 4-1393816-3 |
| V23005-B0009-F104                      | 5A, size II       | 42VAC  | 2 form C (2 CO)       | Single     | Dust protected | 3-1393816-9 |
| V23005-B0008-F104                      | 5A, size II       | 60VAC  | 2 form C (2 CO)       | Single     | Dust protected | 3-1393816-6 |
| V23005-B0007-F104                      | 5A, size II       | 110VAC | 2 form C (2 CO)       | Single     | Dust protected | 3-1393816-4 |
| V23005-B0004-F104                      | 5A, size II       | 220VAC | 2 form C (2 CO)       | Single     | Dust protected | 2-1393816-8 |

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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А