# Cradle N Relay V23154/V23162

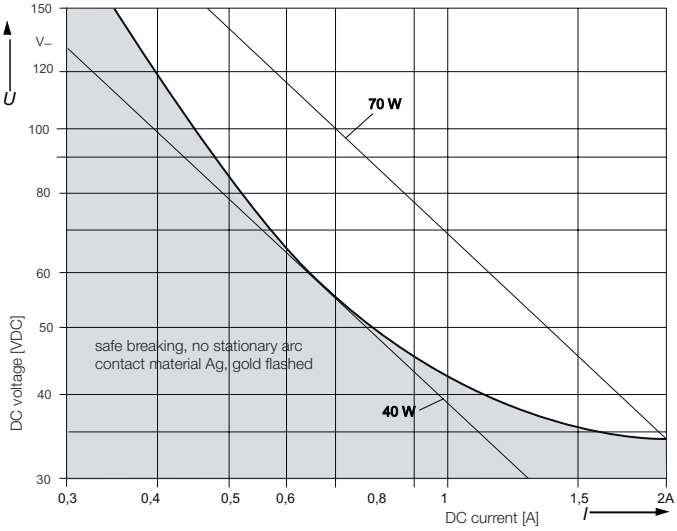
- **Multi purpose relay**
- **Highly reliable**
- **Great variety of contact arrangements and materials to meet specific applications**
- **Contacts for signal loads and currents up to 5 A**
- **DC coil, operating voltage 1.5VDC to 125VDC; AC, latching and non-latching coils on request**
- **Sockets for easy and quick mounting of relays**

Typical applications
Measurement and control equipment, control equipment in nuclear powerplant, press controls with high safety requirements (force-guided springs), telecommunications

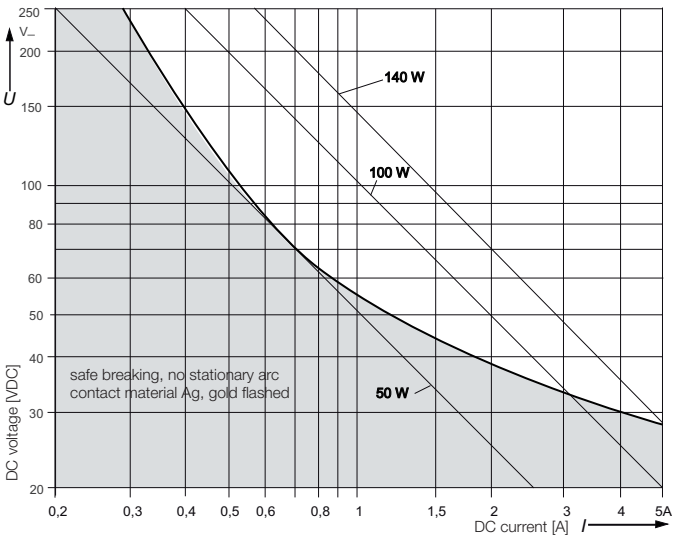
## Contact Data

| Product code block 3 | B104/B110/B112 | B604/B610/B612 | C104/C110/C112 | C404/C410 | F104 to F107 |
|---|---|---|---|---|---|
| Contact arrangement | max. 4 form C (4 CO)contacts, 2 form B (2 NC) contacts or 6 form A (6 NO) contacts (see product code table) | | | | |
| Max. switching voltage | 150VDC<br>125VAC | 36VDC<br>30VAC | 150VDC<br>125VAC | 36VDC<br>30VAC | 150VDC<br>125VAC |
| Rated current | 2A | 0.2A | 2A | 0.2A | 5A |
| Limiting continuous current<br>at max. ambient temperature | 2A | 2A | 2A | 2A | 5A |
| Breaking capacity max.<br>see DC load breaking capacity curve below | 35 to 70W<br>50VA | 5W, 5VA<br>- | 35 to 70W<br>50VA | 5W, 5VA<br>- | 50 to 140W<br>500VA |
| Contact material<br>Contact style | silver, gold-flashed<br>single contact | gold F<br>single contact | silver, gold-flashed<br>bifurcated contacts | gold F<br>bifurcated contacts | silver, gold-flashed<br>single contact |
| Frequency of operation, without load, max. | 50 ops./s | 50 ops./s | 50 ops./s | 50 ops./s | 10 ops./s |
| Operate / release time typ. | 7.5/3ms | 7.5/3ms | 7.5/3ms | 7.5/3ms | 7.5/3ms |
| Mechanical endurance | app. $10^7$ ops. | app. $10^7$ ops. | app. $10^7$ ops. | app. $10^7$ ops. | app. $10^7$ ops. |

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




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



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## Cradle N Relay V23154/V23162 (Continued)

### Coil Data

| | |
|---|---|
| Magnetic system | neutral |
| Coil voltage range | 1.1 to 125 VDC, typ. 800mW power consumption |
| Max. coil temperature | 100 °C |
| Thermal resistance | < 50K/W |

**Coil versions, DC coil, monostable**

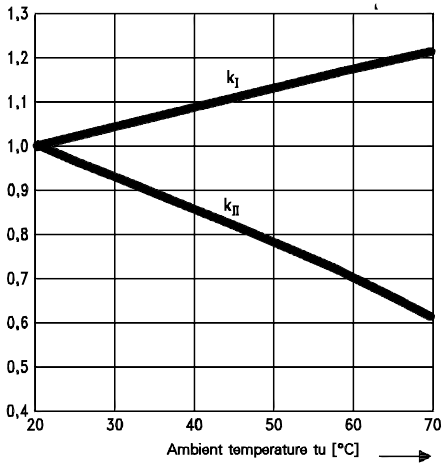
| Coil code | Rated voltage VDC | Operate/Limiting voltage[1] VDC | Coil resistance Ω±15% | Rated coil power mW |
|---|---|---|---|---|
| 702 | 1.1 | - | 2 | 807 |
| 711 | 5 | - | 28 | 893 |
| 712 | 7 | - | 58 | 845 |
| 715 | 9 | - | 110 | 736 |
| 716 | 10 | - | 150 | 667 |
| 717 | 12 | - | 220 | 655 |
| 719 | 15 | - | 325 | 692 |
| 720 | 20 | - | 550 | 727 |
| 721 | 24 | - | 890 | 647 |
| 722 | 32 | - | 1700 | 602 |
| 726 | 48 | - | 3200 | 720 |
| 734 | 60 | - | 4700 | 766 |
| 704 | 72 | - | 7600 | 682 |
| 735 | 110 | - | 15000 | 807 |
| 703 | 125 | - | 20900 | 748 |

1) refer to 'Part code table'.
All figures are given for coil without pre-energization, at ambient temperature +23°C.

**Coil versions, DC coil, monostable**

| Coil code | Rated voltage VDC | Operate/Limiting voltage[1] VDC | Coil resistance Ω±15% | Rated coil power mW |
|---|---|---|---|---|
| 430 | 10 | - | 140 | 714 |
| 418 | 12 | - | 230 | 626 |
| 471 | 12 | - | 220 | 655 |
| 479 | 16 | - | 390 | 656 |
| 421 | 24 | - | 700 | 823 |
| 472 | 24 | - | 890 | 647 |
| 496 | 25 | - | 730 | 856 |
| 473 | 60 | - | 4700 | 766 |
| 404 | 72 | - | 5800 | 894 |

1) refer to 'Part code table'.
All figures are given for coil without pre-energization, at ambient temperature +23°C.




### Coil data (continued)

Terminals:
coil with 1 winding: start 4, end 1
coil with 2 windings (upon request):
start 3, end 2 for winding I, start 4, end 1 for winding II

The minimum voltage $U_I$ depends on the contact set and the ambient temperature, the maximum voltage $U_{II}$ only depends on the ambient temperature.
Between minimum voltage $U_{I\ tamb}$ and operating voltage U a safety margin of approx. 20% is recommended.

| | |
|---|---|
| $U_{I\ tamb}$ (1.2) | $< U_I \leq U_{II}$ tamb |
| $U_{I\ tamb}$ | $U_I \cdot U20\ °C \cdot k_{I\ tamb}$ |
| $U_{II\ tamb}$ | $U_{II}\ 20\ °C \cdot k_{II\ tamb}$ |
| tamb | Ambient temperature |
| U | Operating voltage |
| $U_{I\ tamb}$ | Minimum voltage at ambient temperature, tamb |
| $U_{II\ tamb}$ | Maximum voltage at ambient temperature, tamb |
| $k_I$ and $k_{II}$ | Factors |

### Insulation Data

| Product code, block 3 | B1xx, B6xx, C1xx, C4xx | F1xx |
|---|---|---|
| Initial dielectric strength | | |
| between coil / frame | $500V_{rms}$ | $500V_{rms}$ |
| between contact / contact | $500V_{rms}$ | $1000V_{rms}$ |
| between contact / frame | $500V_{rms}$ | $1000V_{rms}$ |
| between contact / coil | $1000V_{rms}$ | $1500V_{rms}$ |
| Initial insulation resistance, at 500VDC | > 106Ω | |

### 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 |
| Ambient temperature | -40 to +70°C |
| Category of environmental protection | |
| IEC 61810 | RT - I dust protected, RT V - hermetically sealed |
| Degree of protection, IEC 60529 | dust-protected IP 30, hermetically sealed IP 67 |
| Terminal type | PCB, plug-in, solder terminals |
| Weight | |
| V23154-C0/-MO Size I | approx. 20g |
| V23154-D0/-NO Size II | approx. 25g |
| V23162-A0xxx Size I | approx. 30g |
| V23162-B0xxx Size II | approx. 35g |
| Washing | not recommended |
| Ultrasonic cleaning | not recommended |
| Packaging unit | 5 pcs. |

### Accessories

For details see datasheet Cradle Relay, Accessories and Mounting



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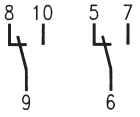
## Cradle N Relay V23154/V23162 (Continued)

### Terminal assignment

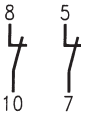
#### Size I

2 form C (2 CO)
V231xx-xxxxx-Bx04
V231xx-xxxxx-Cx04




2 form A (2 NO)
V231xx-xxxxx-F105

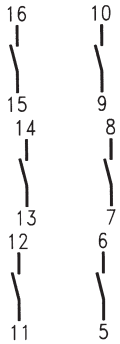
2 form B (2 NC)
V231xx-xxxxx-F107



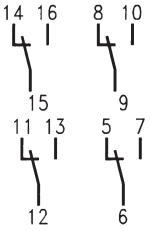

1 form A + 1 form B
(1 NO + 1 NC)
V231xx-xxxxx-F106

#### Size II

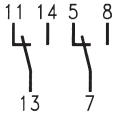
6 form A (6 NO)
V231xx-xxxxx-Bx12
V231xx-xxxxx-Cx12




4 form C (4 CO)
V231xx-xxxxx-Bx10

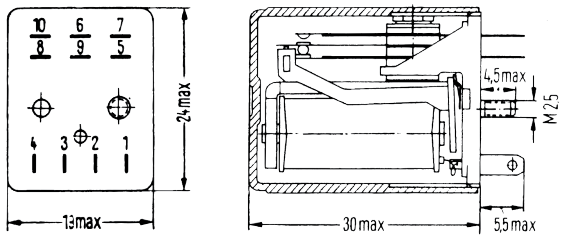



2 form C (2 CO)
V231xx-xxxxx-F104

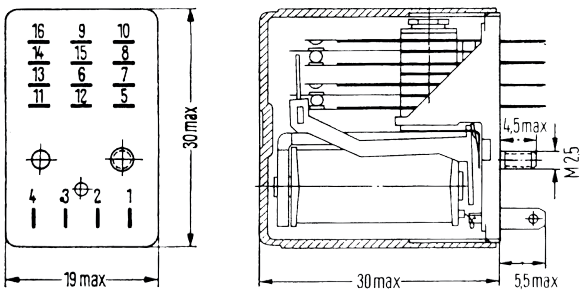



### Dimensions

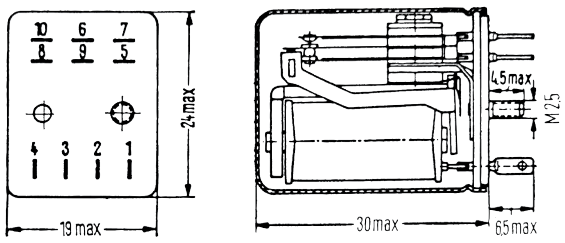
**V23154-C0xx, size I type**



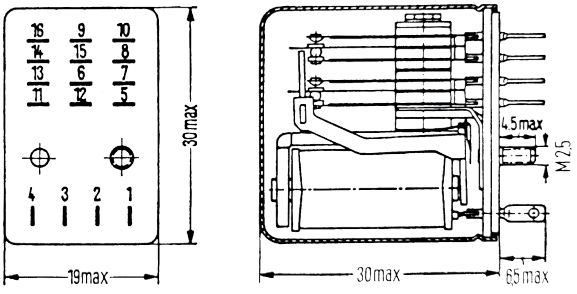

**V23154-D0xx, size II type**




**V23162-A0xx, size I type**




**V23162-B0xx, size II type**
**V23162-H0xx, size II type**



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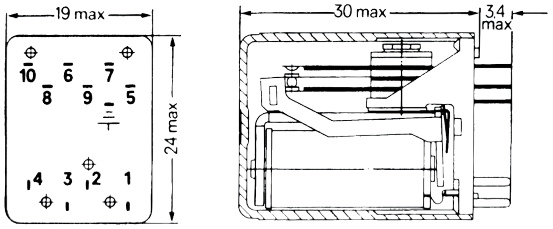
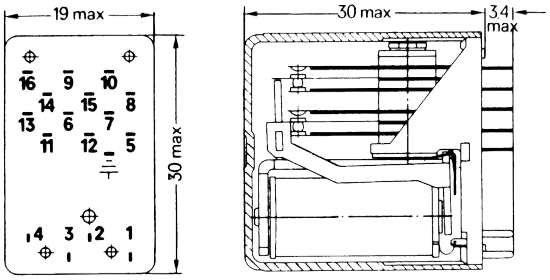
## Cradle N Relay V23154/V23162 (Continued)

**Dimensions**

**V23154-Mxxx, size I type**

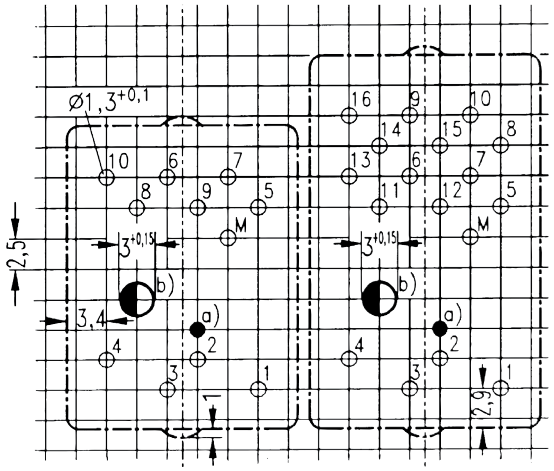



**V23154-Nxxx, size II type**




**PCB layout**
TOP view on component side of PCB

**V23154-M/Nxx versions**




M = Earth terminal
a) Hole for mechanical armature actuation, if required
b) Hole for socket mounting with screw M1.6.

**Instructions for Impulse Operation**
The maximum voltage stated in the part code table can be increased for impulse operation as follows:

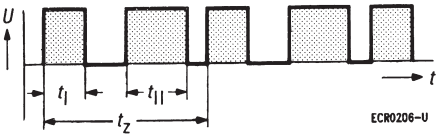
| | |
|---|---|
| $U_{II\ Impuls}$ | $U_{II\ tamb} \times q$ |
| $U_{II\ tamb}$ | Maximum continuous voltage at ambient temperature $t_{amb}$ |
| q | Factor |

The impulse voltage must not exceed 80% of the test voltage (winding/frame or winding/winding) or 2.5 times the value of the maximum voltage listed in the part code table.

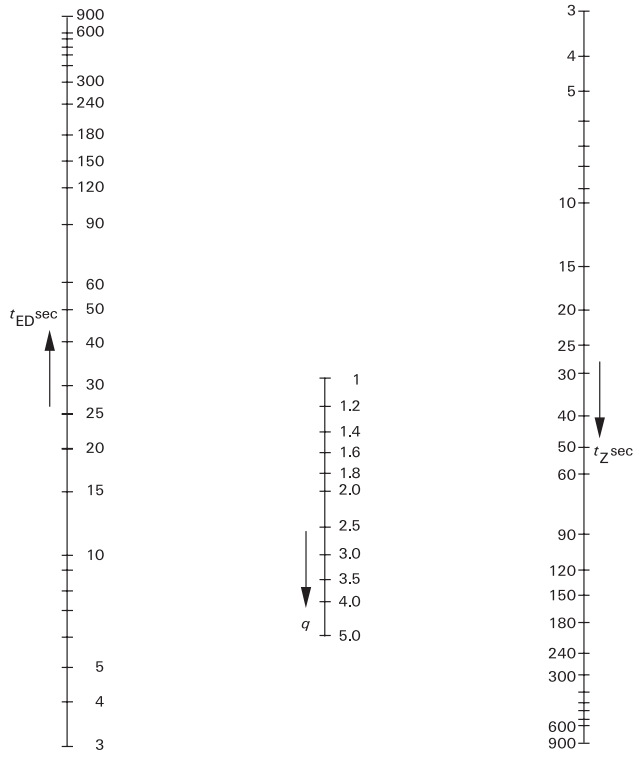
$Ift_{ED} \leq 3s$ then $q = \sqrt{\frac{t_z}{t_{ED}}}$ ; $Ift_{ED}$ = Pulse width, $t_2$ = Cycle time. If $t_{ED} > 3s$ the value of q must be obtained from the nomograph.

Examples of various periodic pulse trains (energizing side)
1. Periodic recurrence of one energizing pulse
2. Periodic recurrence of two unequal energizing pulses

tED = tI + tII




tI + tII = Pulse widths within one cycle



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## Cradle N Relay V23154/V23162 (Continued)

**Product code structure**

| Typical product code | V23154 | -D0 | 721 | -B1 | 10 |
|---|---|---|---|---|---|

**Type**

**V23154** Cradle N Relay, dust protected
**V23162** Cradle N Relay, hermetically sealed

**Version**

V23154 types
**C0** Size I, for plug-in and screw fixing, hand solder terminals silver-plated, with earth terminal, dust-protected (V23154)
**D0** Size II, for plug-in and screw fixing, hand solder terminals silver-plated, with earth terminal, dust-protected (V23154)
**M0** Size I, for printed circuit mounting, with earth terminal, dust-protected (V23154)
**M4** Size I, for printed circuit mounting, without earth terminal, dust-protected (V23154)
**N0** Size II, for printed circuit mounting, with earth terminal, dust-protected (V23154)
**N4** Size II, for printed circuit mounting, without earth terminal, dust-protected (V23154)
V23162 types
**A0** Size I, for plug-in and screw fixing, hand solder terminals tinned, hermetically sealed (V23162)
**B0** Size II, for plug-in and screw fixing, hand solder terminals tinned, hermetically sealed (V23162)
**H0** Size II, for plug-in and screw, fixing, hand solder terminals, gold-plated, hermetically sealed (V23162)

**Coils**

Coil code: please refer to coil versions table

**Contact style**

**B1** Single contacts **B6** Single contacts **F1** Single contacts
**C1** Bifurcated contacts **C4** Bifurcated contacts

**Contact arrangement**

**04** 2 form C, 2 CO **05** 2 form A, 1 NO **06** 1 form A+ 1 form B, 1 NO+ 1 NC
**07** 2 form B, 2 NC **10** 4 form C, 4 CO **12** 6 form A, 6 NO

Other types on request

| Product code | Version | Coil | Operate/Lim. | Arrangement | Contacts | Terminals | Enclosure | PartNumber |
|---|---|---|---|---|---|---|---|---|
| **V23154-C0XX, standard, size I** | | | | | | | | |
| V23154-C0711-B104 | Standard, size I | 5VDC | 1.8/7.2VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 5-1393806-3 |
| V23154-C0711-B604 | Standard, size I | 5VDC | 1.8/7.2VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 5-1393806-4 |
| V23154-C0712-B104 | Standard, size I | 7VDC | 2.7/10.5VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 5-1393806-5 |
| V23154-C0712-B604 | Standard, size I | 7VDC | 2.7/10.5VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 5-1393806-6 |
| V23154-C0430-B104 | Standard, size I | 10VDC | 7.1/16VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 2-1393806-0 |
| V23154-C0418-B104 | Standard, size I | 12VDC | 6.6/20.5VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 1393806-8 |
| V23154-C0717-B104 | Standard, size I | 12VDC | 5.3/20VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 6-1393806-7 |
| V23154-C0717-C104 | Standard, size I | 12VDC | 7.1/20VDC | 2 form C (2 CO) | Bifurcated | Plug-in/solder | Dust protected | 6-1393806-8 |
| V23154-C0719-B104 | Standard, size I | 15VDC | 6.8/24.5VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 7-1393806-1 |
| V23154-C0719-B604 | Standard, size I | 15VDC | 6.8/24.5VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 7-1393806-2 |
| V23154-C0719-C104 | Standard, size I | 15VDC | 9.1/24.5VDC | 2 form C (2 CO) | Bifurcated | Plug-in/solder | Dust protected | 7-1393806-3 |
| V23154-C0719-C404 | Standard, size I | 15VDC | 9.1/24.5VDC | 2 form C (2 CO) | Bifurcated | Plug-in/solder | Dust protected | 7-1393806-4 |
| V23154-C0720-B104 | Standard, size I | 20VDC | 8.9/32VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 7-1393806-8 |
| V23154-C0720-B604 | Standard, size I | 20VDC | 8.9/32VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 7-1393806-9 |
| V23154-C0720-C104 | Standard, size I | 20VDC | 11.9/32VDC | 2 form C (2 CO) | Bifurcated | Plug-in/solder | Dust protected | 8-1393806-1 |
| V23154-C0421-B104 | Standard, size I | 24VDC | 11.2/36VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 1-1393806-1 |
| V23154-C0721-B104 | Standard, size I | 24VDC | 11/40VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 8-1393806-6 |
| V23154-C0721-B604 | Standard, size I | 24VDC | 11/40VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 8-1393806-7 |
| V23154-C0721-C104 | Standard, size I | 24VDC | 14.5/40VDC | 2 form C (2 CO) | Bifurcated | Plug-in/solder | Dust protected | 8-1393806-8 |
| V23154-C0721-C404 | Standard, size I | 24VDC | 14.5/40VDC | 2 form C (2 CO) | Bifurcated | Plug-in/solder | Dust protected | 8-1393806-9 |
| V23154-C0496-C104 | Standard, size I | 25VDC | 20.8/36.3VDC | 2 form C (2 CO) | Bifurcated | Plug-in/solder | Dust protected | 2-1393806-5 |
| V23154-C0722-B104 | Standard, size I | 32VDC | 16.9/54VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 9-1393806-4 |
| V23154-C0722-B604 | Standard, size I | 32VDC | 16.9/54VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 9-1393806-5 |
| V23154-C0722-C104 | Standard, size I | 32VDC | 22.6/54VDC | 2 form C (2 CO) | Bifurcated | Plug-in/solder | Dust protected | 9-1393806-7 |
| V23154-C0722-C404 | Standard, size I | 32VDC | 22.6/54VDC | 2 form C (2 CO) | Bifurcated | Plug-in/solder | Dust protected | 9-1393806-8 |
| V23154-C0726-B104 | Standard, size I | 48VDC | 23/75VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 1393807-6 |
| V23154-C0726-B604 | Standard, size I | 48VDC | 23/75VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 1393807-7 |
| V23154-C0726-C104 | Standard, size I | 48VDC | 30/75VDC | 2 form C (2 CO) | Bifurcated | Plug-in/solder | Dust protected | 1393807-8 |
| V23154-C0726-C404 | Standard, size I | 48VDC | 30/75VDC | 2 form C (2 CO) | Bifurcated | Plug-in/solder | Dust protected | 1393807-9 |
| V23154-C0734-B104 | Standard, size I | 60VDC | 27/92VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 1-1393807-4 |
| V23154-C0404-B104 | Standard, size I | 72VDC | 36/100VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 1393806-2 |
| V23154-C0704-B104 | Standard, size I | 72VDC | 36.2/114VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 4-1393806-3 |
| V23154-C0704-B604 | Standard, size I | 72VDC | 36.2/114VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 4-1393806-5 |
| V23154-C0704-C104 | Standard, size I | 72VDC | 48.4/114VDC | 2 form C (2 CO) | Bifurcated | Plug-in/solder | Dust protected | 4-1393806-6 |
| V23154-C0704-C404 | Standard, size I | 72VDC | 48.4/114VDC | 2 form C (2 CO) | Bifurcated | Plug-in/solder | Dust protected | 4-1393806-7 |
| V23154-C0735-B104 | Standard, size I | 110VDC | 49/164VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 1-1393807-6 |
| V23154-C0703-B104 | Standard, size I | 125VDC | 61/190VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 3-1393806-6 |



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Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

## Cradle N Relay V23154/V23162 (Continued)

| Product code | Version | Coil | Operate/Lim. | Arrangement | Contacts | Terminals | Enclosure | PartNumber |
|---|---|---|---|---|---|---|---|---|
| **V23154-C0XX, 5A, size I** | | | | | | | | |
| V23154-C0702-F106 | 5A, size I | 1.1VDC | 0.4/1.7VDC | 1A+1B (1NO+1NC) | Single | Plug-in/solder | Dust protected | 3-1393806-4 |
| V23154-C0712-F105 | 5A, size I | 7VDC | 2.7/10.5VDC | 2 form A (2 NO) | Single | Plug-in/solder | Dust protected | 5-1393806-7 |
| V23154-C0712-F106 | 5A, size I | 7VDC | 2.7/10.5VDC | 1A+1B (1NO+1NC) | Single | Plug-in/solder | Dust protected | 5-1393806-8 |
| **V23154-C0XX, 5A, size I** | | | | | | | | |
| V23154-C0715-F105 | 5A, size I | 9VDC | 3.9/14VDC | 2 form A (2 NO) | Single | Plug-in/solder | Dust protected | 6-1393806-3 |
| V23154-C0717-F105 | 5A, size I | 12VDC | 7.1/20VDC | 2 form A (2 NO) | Single | Plug-in/solder | Dust protected | 6-1393806-9 |
| V23154-C0717-F106 | 5A, size I | 12VDC | 7.1/20VDC | 1A+1B (1NO+1NC) | Single | Plug-in/solder | Dust protected | 7-1393806-0 |
| V23154-C0719-F105 | 5A, size I | 14.5VDC | 6.6/24VDC | 2 form A (2 NO) | Single | Plug-in/solder | Dust protected | 7-1393806-5 |
| V23154-C0720-F105 | 5A, size I | 19VDC | 8.2/31VDC | 2 form A (2 NO) | Single | Plug-in/solder | Dust protected | 8-1393806-2 |
| V23154-C0720-F106 | 5A, size I | 19VDC | 8.2/31VDC | 1A+1B (1NO+1NC) | Single | Plug-in/solder | Dust protected | 8-1393806-3 |
| V23154-C0421-F105 | 5A, size I | 24VDC | 15/36VDC | 2 form A (2 NO) | Single | Plug-in/solder | Dust protected | 1-1393806-3 |
| V23154-C0721-F105 | 5A, size I | 24VDC | 11/40VDC | 2 form A (2 NO) | Single | Plug-in/solder | Dust protected | 9-1393806-1 |
| V23154-C0721-F106 | 5A, size I | 24VDC | 11/40VDC | 1A+1B (1NO+1NC) | Single | Plug-in/solder | Dust protected | 9-1393806-2 |
| V23154-C0722-F105 | 5A, size I | 33VDC | 16/54VDC | 2 form A (2 NO) | Single | Plug-in/solder | Dust protected | 1393807-2 |
| V23154-C0722-F106 | 5A, size I | 33VDC | 16/54VDC | 1A+1B (1NO+1NC) | Single | Plug-in/solder | Dust protected | 1393807-3 |
| V23154-C0726-F105 | 5A, size I | 48VDC | 23/75VDC | 2 form A (2 NO) | Single | Plug-in/solder | Dust protected | 1-1393807-1 |
| V23154-C0726-F106 | 5A, size I | 48VDC | 30/75VDC | 1A+1B (1NO+1NC) | Single | Plug-in/solder | Dust protected | 1-1393807-2 |
| V23154-C0734-F106 | 5A, size I | 60VDC | 27/92VDC | 1A+1B (1NO+1NC) | Single | Plug-in/solder | Dust protected | 1-1393807-5 |
| V23154-C0704-F105 | 5A, size I | 72VDC | 36.2/114VDC | 2 form A (2 NO) | Single | Plug-in/solder | Dust protected | 4-1393806-8 |
| V23154-C0704-F106 | 5A, size I | 72VDC | 36.2/114VDC | 1A+1B (1NO+1NC) | Single | Plug-in/solder | Dust protected | 1413000-2 |
| V23154-C0735-F106 | 5A, size I | 110VDC | 49/164VDC | 1A+1B (1NO+1NC) | Single | Plug-in/solder | Dust protected | 1-1393807-7 |
| V23154-C0703-F106 | 5A, size I | 125VDC | 61/190VDC | 1A+1B (1NO+1NC) | Single | Plug-in/solder | Dust protected | 4-1393806-0 |
| **V23154-D0XX, standard, size II** | | | | | | | | |
| V23154-D0711-B110 | Standard, size II | 5VDC | 2.5/7.2VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 2-1393808-8 |
| V23154-D0711-C110 | Standard, size II | 5VDC | 3/7.2VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 3-1393808-0 |
| V23154-D0711-C410 | Standard, size II | 5VDC | 3/7.2VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 3-1393808-1 |
| V23154-D0712-B110 | Standard, size II | 7VDC | 3.6/10.5VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 3-1393808-3 |
| V23154-D0712-B610 | Standard, size II | 7VDC | 3.6/10.5VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 3-1393808-4 |
| V23154-D0712-C110 | Standard, size II | 7VDC | 4.4/10.5VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 3-1393808-5 |
| V23154-D0715-B110 | Standard, size II | 8.5VDC | 4.8/14VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 3-1393808-8 |
| V23154-D0715-B610 | Standard, size II | 8.5VDC | 4.8/14VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 3-1393808-9 |
| V23154-D0715-C110 | Standard, size II | 8.5VDC | 5.8/14VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 4-1393808-0 |
| V23154-D0716-B110 | Standard, size II | 10VDC | 5.8/16.5VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 4-1393808-3 |
| V23154-D0716-B610 | Standard, size II | 10VDC | 5.8/16.5VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 4-1393808-5 |
| V23154-D0716-C110 | Standard, size II | 10VDC | 7.1/16.5VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 4-1393808-6 |
| V23154-D0418-B110 | Standard, size II | 12VDC | 8.8/20.5VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 3-1393807-0 |
| V23154-D0717-B110 | Standard, size II | 12VDC | 7.1/20VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 4-1393808-9 |
| V23154-D0717-B112 | Standard, size II | 12VDC | 7.1/20VDC | 6 form A (6 NO) | Single | Plug-in/solder | Dust protected | 5-1393808-0 |
| V23154-D0717-B610 | Standard, size II | 12VDC | 7.1/20VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 8-1422029-2 |
| V23154-D0717-C110 | Standard, size II | 12VDC | 10.5/20VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 5-1393808-3 |
| V23154-D0719-B110 | Standard, size II | 15VDC | 9.1/24.5VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 5-1393808-6 |
| V23154-D0719-B112 | Standard, size II | 15VDC | 9.1/24.5VDC | 6 form A (6 NO) | Single | Plug-in/solder | Dust protected | 5-1393808-7 |
| V23154-D0719-B610 | Standard, size II | 15VDC | 9.1/24.5VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 6-1393808-1 |
| V23154-D0719-C110 | Standard, size II | 15VDC | 11/24.5VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 1413000-3 |
| V23154-D0479-B110 | Standard, size II | 16VDC | 15.2/27VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 7-1393807-5 |
| **V23154-D0XX, standard, size II** | | | | | | | | |
| V23154-D0479-C110 | Standard, size II | 16VDC | 18.9/27VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 7-1393807-8 |
| V23154-D0720-B110 | Standard, size II | 20VDC | 11.9/32VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 6-1393808-5 |
| V23154-D0720-B112 | Standard, size II | 20VDC | 11.9/32VDC | 6 form A (6 NO) | Single | Plug-in/solder | Dust protected | 6-1393808-6 |
| V23154-D0720-B610 | Standard, size II | 20VDC | 11.9/32VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 6-1393808-9 |
| V23154-D0720-C110 | Standard, size II | 20VDC | 14.4/32VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 7-1393808-0 |
| V23154-D0720-C112 | Standard, size II | 20VDC | 14.4/32VDC | 6 form A (6 NO) | Bifurcated | Plug-in/solder | Dust protected | 7-1393808-1 |
| V23154-D0720-C410 | Standard, size II | 20VDC | 14.4/32VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 7-1393808-3 |
| V23154-D0421-B110 | Standard, size II | 24VDC | 15/36VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 3-1393807-7 |
| V23154-D0421-B612 | Standard, size II | 24VDC | 15/36VDC | 6 form A (6 NO) | Single | Plug-in/solder | Dust protected | 4-1393807-1 |
| V23154-D0421-C110 | Standard, size II | 24VDC | 18.2/36VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 4-1393807-2 |
| V23154-D0421-C410 | Standard, size II | 24VDC | 18.2/36VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 4-1393807-3 |
| V23154-D0721-B110 | Standard, size II | 24VDC | 14.5/40VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 8-1393808-3 |
| V23154-D0721-B112 | Standard, size II | 24VDC | 14.5/40VDC | 6 form A (6 NO) | Single | Plug-in/solder | Dust protected | 8-1393808-4 |
| V23154-D0721-B610 | Standard, size II | 24VDC | 14.5/40VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 9-1393808-2 |
| V23154-D0721-B612 | Standard, size II | 24VDC | 14.5/40VDC | 6 form A (6 NO) | Single | Plug-in/solder | Dust protected | 9-1393808-3 |
| V23154-D0721-C110 | Standard, size II | 24VDC | 22/40VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 9-1393808-5 |
| V23154-D0721-C112 | Standard, size II | 24VDC | 18/40VDC | 6 form A (6 NO) | Bifurcated | Plug-in/solder | Dust protected | 9-1393808-6 |
| V23154-D0721-C410 | Standard, size II | 24VDC | 18/40VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 9-1393808-9 |
| V23154-D0496-B110 | Standard, size II | 25VDC | 20.8/36.3VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 8-1393807-2 |
| V23154-D0496-B112 | Standard, size II | 25VDC | 20.8/36.3VDC | 6 form A (6 NO) | Single | Plug-in/solder | Dust protected | 8-1393807-3 |
| V23154-D0722-B110 | Standard, size II | 32VDC | 22.6/54VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 1-1393809-4 |
| V23154-D0722-B112 | Standard, size II | 32VDC | 22.6/54VDC | 6 form A (6 NO) | Single | Plug-in/solder | Dust protected | 1-1393809-5 |
| V23154-D0722-B610 | Standard, size II | 32VDC | 22.6/54VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 2-1393809-1 |
| V23154-D0722-C110 | Standard, size II | 32VDC | 33.8/54VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 2-1393809-2 |
| V23154-D0722-C410 | Standard, size II | 32VDC | 33.8/54VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 2-1393809-3 |
| V23154-D0726-B110 | Standard, size II | 48VDC | 30/75VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 3-1393809-2 |
| V23154-D0726-B112 | Standard, size II | 48VDC | 30/75VDC | 6 form A (6 NO) | Single | Plug-in/solder | Dust protected | 3-1393809-4 |
| V23154-D0726-B610 | Standard, size II | 48VDC | 30/75VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 3-1393809-8 |



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Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

## Cradle N Relay V23154/V23162 (Continued)

| Product code | Version | Coil | Operate/Lim. | Arrangement | Contacts | Terminals | Enclosure | PartNumber |
|---|---|---|---|---|---|---|---|---|
| **V23154-D0XX, standard, size II** | | | | | | | | |
| V23154-D0726-C110 | Standard, size II | 48VDC | 45/75VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 3-1393809-9 |
| V23154-D0726-C112 | Standard, size II | 48VDC | 37/75VDC | 6 form A (6 NO) | Bifurcated | Plug-in/solder | Dust protected | 4-1393809-0 |
| V23154-D0726-C410 | Standard, size II | 48VDC | 37/75VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 4-1393809-2 |
| V23154-D0734-B110 | Standard, size II | 60VDC | 36/92VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 5-1393809-6 |
| V23154-D0734-B610 | Standard, size II | 60VDC | 36/92VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 5-1393809-7 |
| V23154-D0734-C410 | Standard, size II | 60VDC | 43/92VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 5-1393809-8 |
| V23154-D0404-B110 | Standard, size II | 72VDC | 48/100VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 1-1393807-8 |
| V23154-D0404-B112 | Standard, size II | 72VDC | 48/100VDC | 6 form A (6 NO) | Single | Plug-in/solder | Dust protected | 1-1393807-9 |
| V23154-D0404-B610 | Standard, size II | 72VDC | 48/100VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 2-1393807-1 |
| V23154-D0704-B110 | Standard, size II | 72VDC | 48.4/114VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 1393808-6 |
| V23154-D0704-B112 | Standard, size II | 72VDC | 48.4/114VDC | 6 form A (6 NO) | Single | Plug-in/solder | Dust protected | 1393808-8 |
| V23154-D0704-C110 | Standard, size II | 72VDC | 58.7/114VDC | 4 form C (4 CO) | Bifurcated | Plug-in/solder | Dust protected | 1-1393808-6 |
| V23154-D0704-C112 | Standard, size II | 72VDC | 58.7/114VDC | 6 form A (6 NO) | Bifurcated | Plug-in/solder | Dust protected | 1-1393808-7 |
| V23154-D0735-B110 | Standard, size II | 110VDC | 65/164VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 6-1393809-2 |
| V23154-D0735-B610 | Standard, size II | 110VDC | 65/164VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 6-1393809-4 |
| V23154-D0703-B110 | Standard, size II | 125VDC | 81/190VDC | 4 form C (4 CO) | Single | Plug-in/solder | Dust protected | 1393808-1 |
| **V23154-D0XX, 5A , size** | | | | | | | | |
| V23154-D0711-F104 | 5A, size II | 5VDC | 1.8/7.2VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 3-1393808-2 |
| V23154-C0712-B104 | 5A, size II | 7VDC | 3.6/10.5VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 3-1393808-6 |
| V23154-D0418-F104 | 5A, size II | 12VDC | 6.6/20.5VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 3-1393807-1 |
| V23154-D0717-F104 | 5A, size II | 12VDC | 7.1/20VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 5-1393808-4 |
| V23154-D0719-F104 | 5A, size II | 15VDC | 6.8/24.5VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 6-1393808-2 |
| V23154-D0720-F104 | 5A, size II | 20VDC | 11.9/32VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 7-1393808-6 |
| V23154-D0421-F104 | 5A, size II | 24VDC | 15/36VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 4-1393807-4 |
| V23154-D0721-F104 | 5A, size II | 24VDC | 11/40VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 1393809-1 |
| V23154-D0722-F104 | 5A, size II | 32VDC | 22.6/54VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 2-1393809-4 |
| V23154-D0726-F104 | 5A, size II | 48VDC | 30/75VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 4-1393809-4 |
| V23154-D0734-F104 | 5A, size II | 60VDC | 27/92VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 6-1393809-0 |
| V23154-D0404-F104 | 5A, size II | 72VDC | 36/100VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 2-1393807-2 |
| V23154-D0704-F104 | 5A, size II | 72VDC | 48.4/114VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 1-1393808-9 |
| V23154-D0735-F104 | 5A, size II | 110VDC | 65/164VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 6-1393809-5 |
| V23154-D0703-F104 | 5A, size II | 125VDC | 81/190VDC | 2 form C (2 CO) | Single | Plug-in/solder | Dust protected | 1393808-4 |
| **V23154-M0XX, standard, size I** | | | | | | | | |
| V23154-M0712-B104 | Standard, size I | 7VDC | 2.7/10.5VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 1-1393810-8 |
| V23154-M0717-B104 | Standard, size I | 12VDC | 5.3/20VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 2-1393810-1 |
| V23154-M0717-C104 | Standard, size I | 12VDC | 7.1/20VDC | 2 form C (2 CO) | Bifurcated | PCB, earth t. | Dust protected | 2-1393810-2 |
| V23154-M0719-B104 | Standard, size I | 15VDC | 6.8/24.5VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 2-1393810-3 |
| V23154-M0719-C104 | Standard, size I | 15VDC | 9.1/24.5VDC | 2 form C (2 CO) | Bifurcated | PCB, earth t. | Dust protected | 2-1393810-4 |
| **V23154-M0XX, standard, size I** | | | | | | | | |
| V23154-M0720-B104 | Standard, size I | 20VDC | 8.9/32VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 2-1393810-5 |
| V23154-M0720-B604 | Standard, size I | 20VDC | 8.9/32VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 2-1393810-6 |
| V23154-M0721-B104 | Standard, size I | 24VDC | 11/40VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 2-1393810-7 |
| V23154-M0721-B604 | Standard, size I | 24VDC | 11/40VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 2-1393810-9 |
| V23154-M0721-C104 | Standard, size I | 24VDC | 14.5/40VDC | 2 form C (2 CO) | Bifurcated | PCB, earth t. | Dust protected | 3-1393810-0 |
| V23154-M0722-B104 | Standard, size I | 32VDC | 16.9/54VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 3-1393810-4 |
| V23154-M0722-B604 | Standard, size I | 32VDC | 16.9/54VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 3-1393810-5 |
| V23154-M0722-C104 | Standard, size I | 33VDC | 22.6/54VDC | 2 form C (2 CO) | Bifurcated | PCB, earth t. | Dust protected | 2-1419172-5 |
| V23154-M0722-C404 | Standard, size I | 33VDC | 22.6/54VDC | 2 form C (2 CO) | Bifurcated | PCB, earth t. | Dust protected | 3-1393810-6 |
| V23154-M0726-B104 | Standard, size I | 48VDC | 23/75VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 3-1393810-8 |
| V23154-M0726-C104 | Standard, size I | 48VDC | 30/75VDC | 2 form C (2 CO) | Bifurcated | PCB, earth t. | Dust protected | 4-1393810-0 |
| V23154-M0704-B104 | Standard, size I | 72VDC | 36.2/114VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 1-1393810-5 |
| V23154-M0703-B104 | Standard, size I | 125VDC | 61/190VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 1-1393810-4 |
| **V23154-M0XX, 5A, size I** | | | | | | | | |
| V23154-M0720-F105 | 5A, size I | 19VDC | 8.2/31VDC | 2 form A (2 NO) | Single | PCB, earth t. | Dust protected | 2-1422030-5 |
| V23154-M0721-F105 | 5A, size I | 24VDC | 11/40VDC | 2 form A (2 NO) | Single | PCB, earth t. | Dust protected | 3-1393810-2 |
| V23154-M0721-F106 | 5A, size I | 24VDC | 11/40VDC | 1A+1B | Single | PCB, earth t. | Dust protected | 3-1393810-3 |
| V23154-M0722-F106 | 5A, size I | 33VDC | 16/54VDC | 1A+1B | Single | PCB, earth t. | Dust protected | 3-1393810-7 |
| V23154-M0726-F106 | 5A, size I | 48VDC | 23/75VDC | 1A+1B | Single | PCB, earth t. | Dust protected | 4-1393810-1 |
| **V23154-M4XX, standard, size I** | | | | | | | | |
| V23154-M4717-C104 | Standard, size I | 12VDC | 7.1/20VDC | 2 form C (2 CO) | Bifurcated | PCB | Dust protected | 4-1393810-5 |
| V23154-M4719-C104 | Standard, size I | 15VDC | 9.1/24.5VDC | 2 form C (2 CO) | Bifurcated | PCB | Dust protected | 4-1393810-6 |
| V23154-M4721-C104 | Standard, size I | 24VDC | 14.5/40VDC | 2 form C (2 CO) | Bifurcated | PCB | Dust protected | 4-1393810-7 |
| **V23154-M4XX, 5A, size I** | | | | | | | | |
| V23154-M4721-F106 | 5A, size I | 24VDC | 11/40VDC | 1A+1B | Single | PCB | Dust protected | 2-1422030-4 |



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Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

## Cradle N Relay V23154/V23162 (Continued)

| Product code | Version | Coil | Operate/Lim. | Arrangement | Contacts | Terminals | Enclosure | PartNumber |
|---|---|---|---|---|---|---|---|---|
| **V23154-N0XX, standard, size II** | | | | | | | | |
| V23154-N0712-B110 | Standard, size II | 7VDC | 3.6/10.5VDC | 4 form C (4 CO) | Single | PCB, earth t. | Dust protected | 5-1393810-4 |
| V23154-N0716-C110 | Standard, size II | 10VDC | 7.1/16.5VDC | 4 form C (4 CO) | Bifurcated | PCB, earth t. | Dust protected | 5-1393810-8 |
| V23154-N0717-B110 | Standard, size II | 12VDC | 7.1/20VDC | 4 form C (4 CO) | Single | PCB, earth t. | Dust protected | 5-1393810-9 |
| V23154-N0719-B110 | Standard, size II | 15VDC | 9.1/24.5VDC | 4 form C (4 CO) | Single | PCB, earth t. | Dust protected | 6-1393810-3 |
| V23154-N0720-B110 | Standard, size II | 20VDC | 11.9/32VDC | 4 form C (4 CO) | Single | PCB, earth t. | Dust protected | 6-1393810-4 |
| V23154-N0720-B610 | Standard, size II | 20VDC | 11.9/32VDC | 4 form C (4 CO) | Single | PCB, earth t. | Dust protected | 6-1393810-5 |
| V23154-N0720-C110 | Standard, size II | 20VDC | 17.7/32VDC | 4 form C (4 CO) | Bifurcated | PCB, earth t. | Dust protected | 6-1393810-6 |
| V23154-N0720-C112 | Standard, size II | 20VDC | 14.4/32VDC | 6 form A (6 NO) | Bifurcated | PCB, earth t. | Dust protected | 6-1393810-7 |
| V23154-N0720-C410 | Standard, size II | 20VDC | 17.7/32VDC | 4 form C (4 CO) | Bifurcated | PCB, earth t. | Dust protected | 6-1393810-8 |
| V23154-N0721-B110 | Standard, size II | 24VDC | 14.5/40VDC | 4 form C (4 CO) | Single | PCB, earth t. | Dust protected | 7-1393810-0 |
| V23154-N0721-B112 | Standard, size II | 24VDC | 14.5/40VDC | 6 form A (6 NO) | Single | PCB, earth t. | Dust protected | 7-1393810-1 |
| V23154-N0721-B610 | Standard, size II | 24VDC | 14.5/40VDC | 4 form C (4 CO) | Single | PCB, earth t. | Dust protected | 7-1393810-2 |
| V23154-N0721-C110 | Standard, size II | 24VDC | 22/40VDC | 4 form C (4 CO) | Bifurcated | PCB, earth t. | Dust protected | 7-1393810-3 |
| V23154-N0722-B110 | Standard, size II | 32VDC | 22.6/54VDC | 4 form C (4 CO) | Single | PCB, earth t. | Dust protected | 7-1393810-6 |
| V23154-N0722-C110 | Standard, size II | 32VDC | 33.8/54VDC | 4 form C (4 CO) | Bifurcated | PCB, earth t. | Dust protected | 7-1393810-7 |
| V23154-N0722-C112 | Standard, size II | 32VDC | 27.4/54VDC | 6 form A (6 NO) | Bifurcated | PCB, earth t. | Dust protected | 7-1393810-8 |
| V23154-N0726-B110 | Standard, size II | 48VDC | 30/75VDC | 4 form C (4 CO) | Single | PCB, earth t. | Dust protected | 8-1393810-0 |
| V23154-N0726-C110 | Standard, size II | 48VDC | 45/75VDC | 4 form C (4 CO) | Bifurcated | PCB, earth t. | Dust protected | 8-1393810-2 |
| V23154-N0734-B110 | Standard, size II | 60VDC | 36/92VDC | 4 form C (4 CO) | Single | PCB, earth t. | Dust protected | 8-1393810-9 |
| V23154-N0404-B110 | Standard, size II | 72VDC | 48/100VDC | 4 form C (4 CO) | Single | PCB | Dust protected | 4-1393810-8 |
| **V23154-N0XX, 5A, size II** | | | | | | | | |
| V23154-N0717-F104 | 5A, size II | 12VDC | 5.3/20VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 6-1393810-1 |
| V23154-N0720-F104 | 5A, size II | 20VDC | 8.9/32VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 6-1393810-9 |
| V23154-N0721-F104 | 5A, size II | 24VDC | 11/40VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 7-1393810-5 |
| V23154-N0722-F104 | 5A, size II | 32VDC | 16.9/54VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 7-1393810-9 |
| V23154-N0726-F104 | 5A, size II | 48VDC | 23/75VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 8-1393810-7 |
| V23154-N0734-F104 | 5A, size II | 60VDC | 27/92VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 9-1393810-0 |
| V23154-N0704-F104 | 5A, size II | 72VDC | 36.2/114VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 1422030-1 |
| V23154-N0703-F104 | 5A, size II | 125VDC | 61/190VDC | 2 form C (2 CO) | Single | PCB, earth t. | Dust protected | 5-1393810-1 |
| **V23154-N4XX, standard, size II** | | | | | | | | |
| V23154-N4716-C110 | Standard, size II | 10VDC | 9/16.5VDC | 4 form C (4 CO) | Bifurcated | PCB | Dust protected | 1393811-1 |
| V23154-N4720-B110 | Standard, size II | 20VDC | 11.9/32VDC | 4 form C (4 CO) | Single | PCB | Dust protected | 1393811-2 |
| V23154-N4721-C110 | Standard, size II | 24VDC | 22/40VDC | 4 form C (4 CO) | Bifurcated | PCB | Dust protected | 1393811-7 |
| V23154-N4726-B110 | Standard, size II | 48VDC | 30/75VDC | 4 form C (4 CO) | Single | PCB | Dust protected | 1-1393811-0 |
| V23154-N4734-B110 | Standard, size II | 60VDC | 36/92VDC | 4 form C (4 CO) | Single | PCB | Dust protected | 1-1393811-1 |
| **V23154-N4XX, 5A, size II** | | | | | | | | |
| V23154-N4721-F104 | 5A, size II | 24VDC | 11/40VDC | 2 form C (2 CO) | Single | PCB | Dust protected | 1393811-8 |
| V23154-N4734-F104 | 5A, size II | 60VDC | 27/92VDC | 2 form C (2 CO) | Single | PCB | Dust protected | 1-1393811-2 |
| V23154-N4735-F104 | 5A, size II | 110VDC | 49/164VDC | 2 form C (2 CO) | Single | PCB | Dust protected | 1-1393811-3 |
| **V23162-A0XX, standard, size I** | | | | | | | | |
| V23162-A0711-B104 | Standard, size I | 5VDC | 1.8/7.2VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 2-1393818-5 |
| V23162-A0717-B104 | Standard, size I | 12VDC | 5.3/20VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 2-1393818-8 |
| V23162-A0717-B604 | Standard, size I | 12VDC | 5.3/20VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 2-1393818-9 |
| V23162-A0719-B104 | Standard, size I | 15VDC | 6.8/24.5VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 3-1393818-2 |
| V23162-A0720-B104 | Standard, size I | 20VDC | 8.9/32VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 3-1393818-3 |
| V23162-A0720-B604 | Standard, size I | 20VDC | 8.9/32VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 3-1393818-4 |
| V23162-A0720-C104 | Standard, size I | 20VDC | 11.9/32VDC | 2 form C (2 CO) | Bifurcated | Solder | Hermet. sealed | 3-1393818-5 |
| V23162-A0720-C404 | Standard, size I | 20VDC | 11.9/32VDC | 2 form C (2 CO) | Bifurcated | Solder | Hermet. sealed | 3-1393818-6 |
| V23162-A0421-B104 | Standard, size I | 24VDC | 11.2/36VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 1393818-6 |
| V23162-A0421-B604 | Standard, size I | 24VDC | 11.2/36VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 1393818-7 |
| V23162-A0721-B104 | Standard, size I | 24VDC | 11/40VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 3-1393818-7 |
| V23162-A0721-B604 | Standard, size I | 24VDC | 11/40VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 3-1393818-8 |
| V23162-A0721-C104 | Standard, size I | 24VDC | 14.5/40VDC | 2 form C (2 CO) | Bifurcated | Solder | Hermet. sealed | 4-1393818-0 |
| V23162-A0721-C404 | Standard, size I | 24VDC | 14.5/40VDC | 2 form C (2 CO) | Bifurcated | Solder | Hermet. sealed | 4-1393818-1 |
| V23162-A0722-B104 | Standard, size I | 32VDC | 16.9/54VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 4-1393818-6 |
| V23162-A0722-B604 | Standard, size I | 32VDC | 16.9/54VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 4-1393818-7 |
| V23162-A0722-C104 | Standard, size I | 32VDC | 22.6/54VDC | 2 form C (2 CO) | Bifurcated | Solder | Hermet. sealed | 4-1393818-8 |
| V23162-A0726-B104 | Standard, size I | 48VDC | 23/75VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 5-1393818-1 |
| V23162-A0726-B604 | Standard, size I | 48VDC | 23/75VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 5-1393818-2 |
| V23162-A0726-C404 | Standard, size I | 48VDC | 30/75VDC | 2 form C (2 CO) | Bifurcated | Solder | Hermet. sealed | 5-1393818-3 |
| V23162-A0735-C104 | Standard, size I | 48VDC | 30/75VDC | 2 form C (2 CO) | Bifurcated | Solder | Hermet. sealed | 5-1393818-5 |
| V23162-A0404-B104 | Standard, size I | 72VDC | 36/100VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 1393818-1 |
| **V23162-A0XX, standard, size I** | | | | | | | | |
| V23162-A0404-B604 | Standard, size I | 72VDC | 36/100VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 1419147-6 |
| V23162-A0704-B104 | Standard, size I | 72VDC | 36.2/114VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 1-1393818-9 |
| V23162-A0704-B604 | Standard, size I | 72VDC | 36.2/114VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 2-1393818-0 |
| V23162-A0704-C404 | Standard, size I | 72VDC | 48.4/114VDC | 2 form C (2 CO) | Bifurcated | Solder | Hermet. sealed | 2-1393818-2 |
| V23162-A0735-C404 | Standard, size I | 110VDC | 65/164VDC | 2 form C (2 CO) | Bifurcated | Solder | Hermet. sealed | 5-1393818-6 |
| V23162-A0703-B104 | Standard, size I | 125VDC | 61/190VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 1-1393818-6 |
| V23162-A0703-C404 | Standard, size I | 125VDC | 81/190VDC | 2 form C (2 CO) | Bifurcated | Solder | Hermet. sealed | 1-1393818-7 |



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Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

## Cradle N Relay V23154/V23162 (Continued)

| Product code | Version | Coil | Operate/Lim. | Arrangement | Contacts | Terminals | Enclosure | PartNumber |
|---|---|---|---|---|---|---|---|---|
| **V23162-A0XX, 5A, size I** | | | | | | | | |
| V23162-A0702-F106 | 5A, size I | 1.1VDC | 0.5/1.7VDC | 1A+1B | Single | Solder | Hermet. sealed | 1-1393818-5 |
| V23162-A0717-F105 | 5A, size I | 12VDC | 5.3/20VDC | 2 form A (2 NO) | Single | Solder | Hermet. sealed | 3-1393818-0 |
| V23162-A0717-F106 | 5A, size I | 12VDC | 7.1/20VDC | 1A+1B | Single | Solder | Hermet. sealed | 3-1393818-1 |
| V23162-A0721-F105 | 5A, size I | 24VDC | 11/40VDC | 2 form A (2 NO) | Single | Solder | Hermet. sealed | 4-1393818-3 |
| V23162-A0721-F106 | 5A, size I | 24VDC | 14.5/40VDC | 1A+1B | Single | Solder | Hermet. sealed | 4-1393818-4 |
| V23162-A0722-F105 | 5A, size I | 33VDC | 16/54VDC | 2 form A (2 NO) | Single | Solder | Hermet. sealed | 5-1393818-0 |
| V23162-A0726-F106 | 5A, size I | 48VDC | 30/75VDC | 1A+1B | Single | Solder | Hermet. sealed | 5-1393818-4 |
| V23162-A0404-F106 | 5A, size I | 72VDC | 48/100VDC | 1A+1B | Single | Solder | Hermet. sealed | 1393818-2 |
| V23162-A0704-F105 | 5A, size I | 72VDC | 36.2/114VDC | 2 form A (2 NO) | Single | Solder | Hermet. sealed | 2-1393818-3 |
| V23162-A0704-F106 | 5A, size I | 72VDC | 48.4/114VDC | 1A+1B | Single | Solder | Hermet. sealed | 2-1393818-4 |
| V23162-A0703-F106 | 5A, size I | 125VDC | 81/190VDC | 1A+1B | Single | Solder | Hermet. sealed | 1-1393818-8 |
| **V23162-B0XX, standard, size II** | | | | | | | | |
| V23162-B0712-B110 | Standard, size II | 7VDC | 3.6/10.5VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 8-1393818-1 |
| V23162-B0715-C110 | Standard, size II | 8.5VDC | 7.6/14VDC | 4 form C (4 CO) | Bifurcated | Solder | Hermet. sealed | 8-1393818-4 |
| V23162-B0716-B110 | Standard, size II | 10VDC | 5.8/16.5VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 8-1393818-5 |
| V23162-B0717-B110 | Standard, size II | 12VDC | 7.1/20VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 8-1393818-7 |
| V23162-B0717-B610 | Standard, size II | 12VDC | 7.1/20VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 8-1393818-8 |
| V23162-B0717-C112 | Standard, size II | 12VDC | 8.7/20VDC | 6 form A (6 NO) | Bifurcated | Solder | Hermet. sealed | 8-1393818-9 |
| V23162-B0719-B110 | Standard, size II | 15VDC | 9.1/24.5VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 9-1393818-1 |
| V23162-B0720-B110 | Standard, size II | 20VDC | 11.9/32VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 9-1393818-4 |
| V23162-B0720-B112 | Standard, size II | 20VDC | 11.9/32VDC | 6 form A (6 NO) | Single | Solder | Hermet. sealed | 9-1393818-5 |
| V23162-B0720-B610 | Standard, size II | 20VDC | 11.9/32VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 9-1393818-7 |
| V23162-B0720-C110 | Standard, size II | 20VDC | 17.7/32VDC | 4 form C (4 CO) | Bifurcated | Solder | Hermet. sealed | 9-1393818-8 |
| V23162-B0720-C112 | Standard, size II | 20VDC | 14.4/32VDC | 6 form A (6 NO) | Bifurcated | Solder | Hermet. sealed | 9-1393818-9 |
| V23162-B0720-C410 | Standard, size II | 20VDC | 17.7/32VDC | 4 form C (4 CO) | Bifurcated | Solder | Hermet. sealed | 1393819-1 |
| V23162-B0421-B110 | Standard, size II | 24VDC | 15/36VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 6-1393818-1 |
| V23162-B0421-B610 | Standard, size II | 24VDC | 15/36VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 6-1393818-3 |
| V23162-B0721-B110 | Standard, size II | 24VDC | 14.5/40VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 1393819-4 |
| V23162-B0721-B112 | Standard, size II | 24VDC | 14.5/40VDC | 6 form A (6 NO) | Single | Solder | Hermet. sealed | 1393819-5 |
| V23162-B0721-B610 | Standard, size II | 24VDC | 14.5/40VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 1-1393819-0 |
| V23162-B0721-C110 | Standard, size II | 24VDC | 22/40VDC | 4 form C (4 CO) | Bifurcated | Solder | Hermet. sealed | 1-1393819-2 |
| V23162-B0721-C410 | Standard, size II | 24VDC | 22/40VDC | 4 form C (4 CO) | Bifurcated | Solder | Hermet. sealed | 1-1393819-3 |
| V23162-B0722-B110 | Standard, size II | 32VDC | 22.6/54VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 1-1393819-5 |
| V23162-B0722-B112 | Standard, size II | 32VDC | 22.6/54VDC | 6 form A (6 NO) | Single | Solder | Hermet. sealed | 1-1393819-6 |
| V23162-B0722-B610 | Standard, size II | 32VDC | 22.6/54VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 1-1393819-7 |
| V23162-B0722-C410 | Standard, size II | 32VDC | 33.8/54VDC | 4 form C (4 CO) | Bifurcated | Solder | Hermet. sealed | 1-1393819-8 |
| V23162-B0726-B110 | Standard, size II | 48VDC | 30/75VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 2-1393819-0 |
| V23162-B0726-B112 | Standard, size II | 48VDC | 30/75VDC | 6 form A (6 NO) | Single | Solder | Hermet. sealed | 2-1393819-1 |
| V23162-B0726-B610 | Standard, size II | 48VDC | 30/75VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 2-1393819-3 |
| **V23162-B0XX, standard, size II** | | | | | | | | |
| V23162-B0726-C110 | Standard, size II | 48VDC | 45/75VDC | 4 form C (4 CO) | Bifurcated | Solder | Hermet. sealed | 2-1393819-6 |
| V23162-B0734-B610 | Standard, size II | 60VDC | 36/92VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 2-1393819-9 |
| V23162-B0404-B110 | Standard, size II | 72VDC | 48/100VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 5-1393818-7 |
| V23162-B0704-B110 | Standard, size II | 72VDC | 48.4/114VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 7-1393818-6 |
| V23162-B0704-B112 | Standard, size II | 72VDC | 48.4/114VDC | 6 form A (6 NO) | Single | Solder | Hermet. sealed | 7-1393818-7 |
| V23162-B0704-B610 | Standard, size II | 72VDC | 48.4/114VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 7-1393818-8 |
| V23162-B0735-B110 | Standard, size II | 110VDC | 65/164VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 3-1393819-0 |
| V23162-B0735-B610 | Standard, size II | 110VDC | 65/164VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 3-1393819-1 |
| V23162-B0735-C110 | Standard, size II | 110VDC | 98/164VDC | 4 form C (4 CO) | Bifurcated | Solder | Hermet. sealed | 3-1393819-2 |
| V23162-B0735-C410 | Standard, size II | 110VDC | 98/164VDC | 4 form C (4 CO) | Bifurcated | Solder | Hermet. sealed | 3-1393819-3 |
| V23162-B0703-B110 | Standard, size II | 125VDC | 81/190VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 7-1393818-3 |
| V23162-B0703-B610 | Standard, size II | 125VDC | 81/190VDC | 4 form C (4 CO) | Single | Solder | Hermet. sealed | 7-1393818-4 |
| **V23162-B0XX, 5A, size II** | | | | | | | | |
| V23162-B0712-F104 | 5A, size II | 7VDC | 3.6/10.5VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 8-1393818-2 |
| V23162-B0717-F104 | 5A, size II | 12VDC | 7.1/20VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 9-1393818-0 |
| V23162-B0719-F104 | 5A, size II | 15VDC | 9.1/24.5VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 9-1393818-3 |
| V23162-B0720-F104 | 5A, size II | 20VDC | 11.9/32VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 1393819-2 |
| V23162-B0421-F104 | 5A, size II | 24VDC | 15/36VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 6-1393818-4 |
| V23162-B0721-F104 | 5A, size II | 24VDC | 14.5/40VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 1-1393819-4 |
| V23162-B0722-F104 | 5A, size II | 32VDC | 22.6/54VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 1-1393819-9 |
| V23162-B0726-F104 | 5A, size II | 48VDC | 30/75VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 2-1393819-7 |
| V23162-B0704-F104 | 5A, size II | 72VDC | 48.4/114VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 8-1393818-0 |
| V23162-B0735-F104 | 5A, size II | 110VDC | 65/164VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 3-1393819-4 |
| V23162-B0703-F104 | 5A, size II | 125VDC | 81/190VDC | 2 form C (2 CO) | Single | Solder | Hermet. sealed | 7-1393818-5 |
| **V23162-H0XX, standard, size II** | | | | | | | | |
| V23162-H0715-B110 | Standard, size II | 8.5VDC | 5.1/14VDC | 4 form C (4 CO) | Single | Solder, Au pl. | Hermet. sealed | 4-1393819-2 |
| V23162-H0720-B110 | Standard, size II | 20VDC | 11.9/32VDC | 4 form C (4 CO) | Single | Solder, Au pl. | Hermet. sealed | 4-1393819-4 |
| V23162-H0720-B610 | Standard, size II | 20VDC | 11.9/32VDC | 4 form C (4 CO) | Single | Solder, Au pl. | Hermet. sealed | 4-1393819-6 |
| V23162-H0720-C410 | Standard, size II | 20VDC | 17.7/32VDC | 4 form C (4 CO) | Bifurcated | Solder, Au pl. | Hermet. sealed | 4-1393819-7 |
| V23162-H0421-B610 | Standard, size II | 24VDC | 15/36VDC | 4 form C (4 CO) | Single | Solder, Au pl. | Hermet. sealed | 3-1393819-7 |
| V23162-H0721-B110 | Standard, size II | 24VDC | 14.5/40VDC | 4 form C (4 CO) | Single | Solder, Au pl. | Hermet. sealed | 4-1393819-9 |
| V23162-H0721-B610 | Standard, size II | 24VDC | 14.5/40VDC | 4 form C (4 CO) | Single | Solder, Au pl. | Hermet. sealed | 5-1393819-0 |
| V23162-H0721-C410 | Standard, size II | 24VDC | 22/40VDC | 4 form C (4 CO) | Bifurcated | Solder, Au pl. | Hermet. sealed | 5-1393819-1 |
| V23162-H0722-C110 | Standard, size II | 32VDC | 33.8/54VDC | 4 form C (4 CO) | Bifurcated | Solder, Au pl. | Hermet. sealed | 5-1393819-3 |
| V23162-H0722-C410 | Standard, size II | 32VDC | 33.8/54VDC | 4 form C (4 CO) | Bifurcated | Solder, Au pl. | Hermet. sealed | 5-1393819-4 |



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## Cradle N Relay V23154/V23162 (Continued)

| Product code | Version | Coil | Operate/Lim. | Arrangement | Contacts | Terminals | Enclosure | PartNumber |
|---|---|---|---|---|---|---|---|---|
| **V23162-H0XX, 5A, size II** | | | | | | | | |
| V23162-H0712-F104 | 5A, size II | 7VDC | 3.6/10.5VDC | 2 form C (2 CO) | Single | Solder, Au pl. | Hermet. sealed | 4-1393819-1 |
| V23162-H0719-F104 | 5A, size II | 15VDC | 9.1/24.5VDC | 2 form C (2 CO) | Single | Solder, Au pl. | Hermet. sealed | 4-1393819-3 |
| V23162-H0721-F104 | 5A, size II | 24VDC | 14.5/40VDC | 2 form C (2 CO) | Single | Solder, Au pl. | Hermet. sealed | 5-1393819-2 |
| V23162-H0721-F107 | 5A, size II | 24VDC | 14.5/40VDC | 2 form B (2 NC) | Single | Solder, Au pl. | Hermet. sealed | 1419147-7 |
| V23162-H0722-F104 | 5A, size II | 32VDC | 22.6/54VDC | 2 form C (2 CO) | Single | Solder, Au pl. | Hermet. sealed | 5-1393819-5 |
| V23162-H0704-F104 | 5A, size II | 72VDC | 48.4/114VDC | 2 form C (2 CO) | Single | Solder, Au pl. | Hermet. sealed | 4-1393819-0 |
| V23162-H0703-F104 | 5A, size II | 125VDC | 81/190VDC | 2 form C (2 CO) | Single | Solder, Au pl. | Hermet. sealed | 3-1393819-9 |



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