

**Cradle N Relay V23154/V23162**

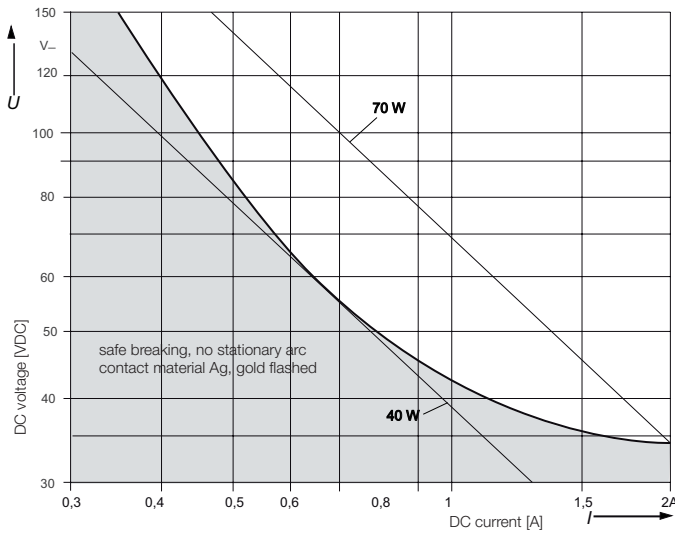
- Multi purpose relay
- Highly reliable
- Great variety of contact arrangements and materials to meet specific applications
- Contacts for signal loads and currents up to 5 A
- DC coil, operating voltage 1.5VDC to 125VDC; AC, latching and non-latching coils on request
- Sockets for easy and quick mounting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



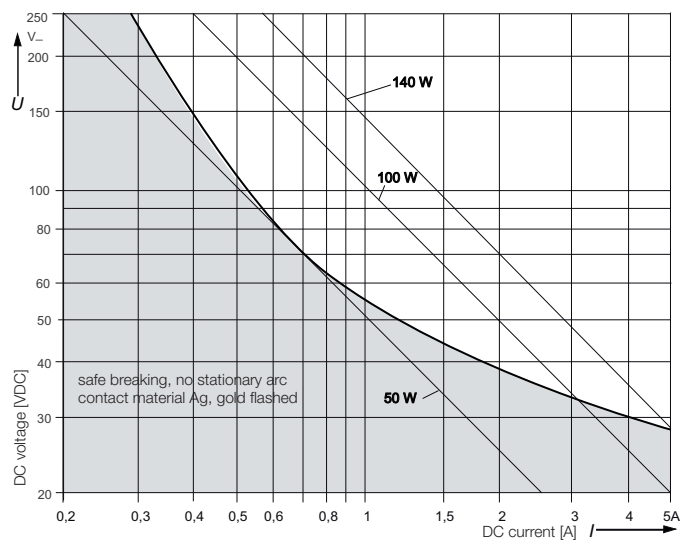
Typical applications  
Measurement and control equipment, control equipment in nuclear powerplant, press controls with high safety requirements (force-guided springs), telecommunications

Product code block 3	B104/B110/B112	B604/B610/B612	C104/C110/C112	C404/C410	F104 to F107
Contact arrangement	max. 4 form A (4 CO) contacts, 2 form B (2 NC) contacts or 6 form A (6 NO) contacts (see product code table)				
Max. switching voltage	150VDC 125VAC	36VDC 30VAC	150VDC 125VAC	36VDC 30VAC	150VDC 125VAC
Rated current	2A	0.2A	2A	0.2A	5A
Limiting continuous current at max. ambient temperature	2A	2A	2A	2A	5A
Breaking capacity max. see DC load breaking capacity curve below 50VA	35 to 70W	5W, 5VA	35 to 70W 50VA	5W, 5VA	50 to 140W 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.	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 <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>7</sup> ops.

Max. DC breaking capacity, contact sets B1xx, C1xx



Max. DC breaking capacity, contact sets F1xx



**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 <sup>1)</sup> VDC	Coil resistance $\Omega \pm 15\%$	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'.

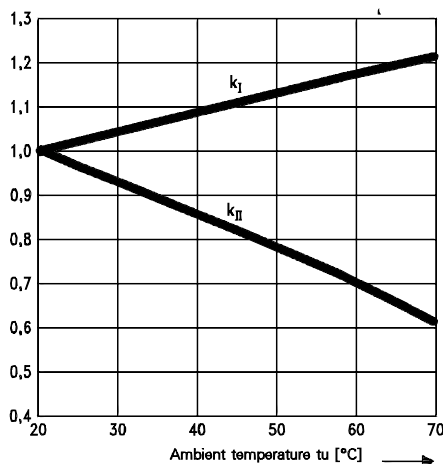
All figures are given for coil without pre-energization, at ambient temperature +23°C.

**Coil versions, DC coil, monostable**

Coil code	Rated voltage VDC	Operate/Limiting voltage <sup>1)</sup> VDC	Coil resistance $\Omega \pm 15\%$	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  $U_{I \text{ t amb}}$  and operating voltage  $U$  a safety margin of approx. 20% is recommended.

$U_{I \text{ t amb}} (1.2)$	$< U_I \leq U_{II \text{ t amb}}$
$U_{I \text{ t amb}}$	$U_I \cdot U_{20 \text{ °C}} \cdot k_{I \text{ t amb}}$
$U_{II \text{ t amb}}$	$U_{II} \cdot U_{20 \text{ °C}} \cdot k_{II \text{ t amb}}$
tamb	Ambient temperature
U	Operating voltage
$U_{I \text{ t amb}}$	Minimum voltage at ambient temperature, tamb
$U_{II \text{ t amb}}$	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 <sub>rms</sub>	500V <sub>rms</sub>
between contact / contact	500V <sub>rms</sub>	1000V <sub>rms</sub>
between contact / frame	500V <sub>rms</sub>	1000V <sub>rms</sub>
between contact / coil	1000V <sub>rms</sub>	1500V <sub>rms</sub>
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/customer-support/rohssupportcenter](http://www.te.com/customer-support/rohssupportcenter)

Ambient temperature	-40 to +70°C
Category of environmental protection	IEC 61810
Degree of protection, IEC 60529	RT - I dust protected, RT V - hermetically sealed 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

**Cradle N Relay V23154/V23162** (Continued)

**Terminal assignment**

**Size I**

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



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



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

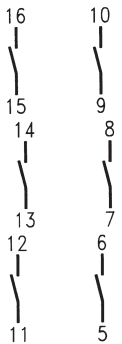


1 form A + 1 form B  
(1 NO + 1 NC)  
V231xx-xxxx-F106

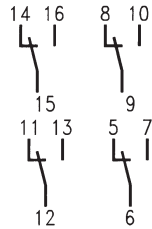


**Size II**

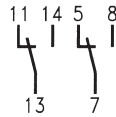
6 form A (6 NO)  
V231xx-xxxx-Bx12  
V231xx-xxxx-Cx12



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

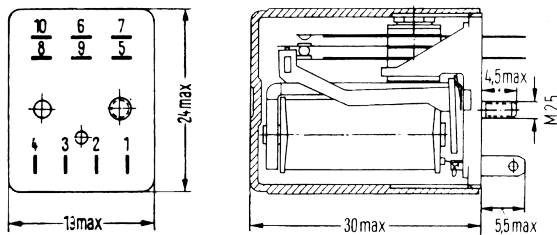


2 form C (2 CO)  
V231xx-xxxx-F104

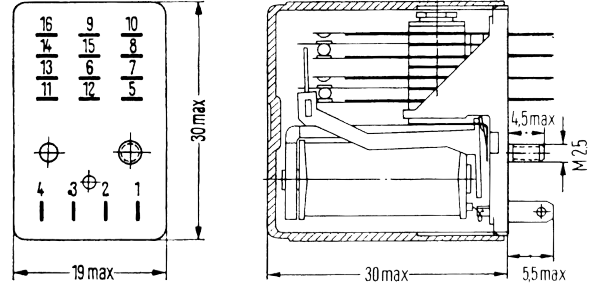


**Dimensions**

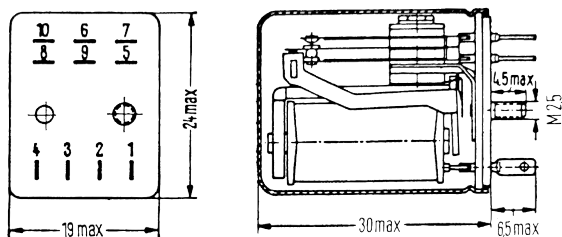
**V23154-C0xx, size I type**



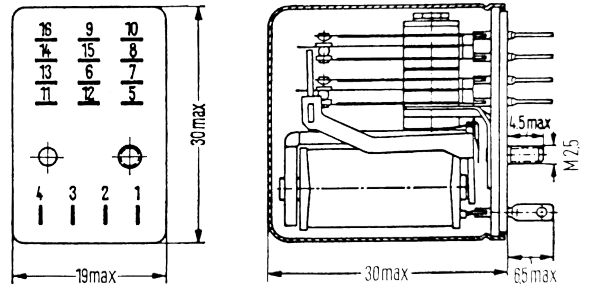
**V23154-D0xx, size II type**



**V23162-A0xx, size I type**



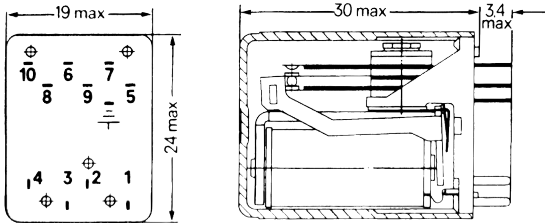
**V23162-B0xx, size II type**  
**V23162-H0xx, size II type**



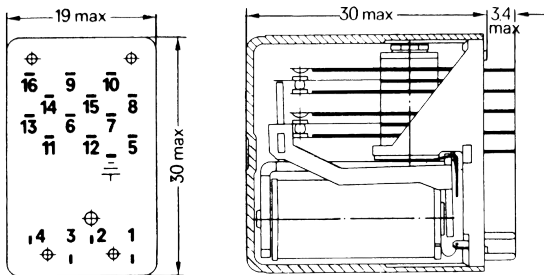
**Cradle N Relay V23154/V23162 (Continued)**

**Dimensions**

**V23154-Mxxx, size I type**



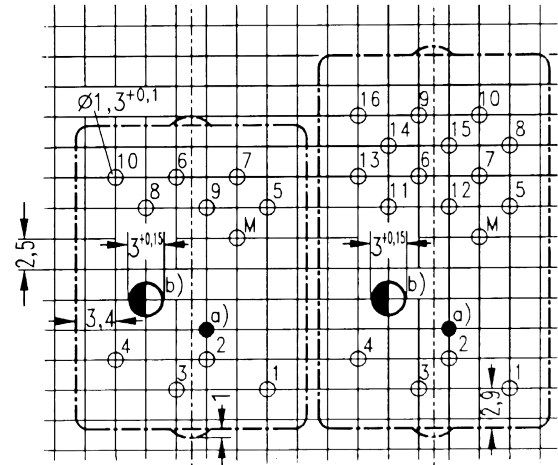
**V23154-Nxxx, size II type**



**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:

$$U_{II \text{ impuls}} = U_{II \text{ tamb}} \times q$$

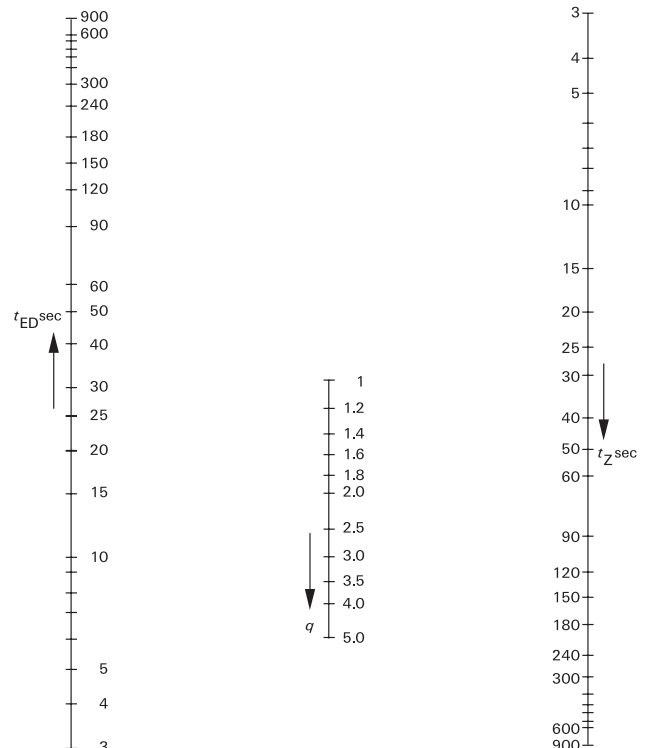
$U_{II \text{ tamb}}$  Maximum continuous voltage at ambient temperature  $t_{amb}$   
 $q$  Factor

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.

If  $t_{ED} \leq 3s$  then  $q = \sqrt{\frac{t_2}{t_{ED}}}$ ; If  $t_{ED} =$  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



**Cradle N Relay V23154/V23162** (Continued)

<b>Product code structure</b>		Typical product code	<b>V23154</b>	<b>-D0</b>	<b>721</b>	<b>-B1</b>	<b>10</b>
<b>Type</b>							
<b>V23154</b>	Cradle N Relay, dust protected						
<b>V23162</b>	Cradle N Relay, hermetically sealed						
<b>Version</b>							
V23154 types							
<b>C0</b>	Size I, for plug-in and screw fixing, hand solder terminals silver-plated, with earth terminal, dust-protected (V23154)						
<b>D0</b>	Size II, for plug-in and screw fixing, hand solder terminals silver-plated, with earth terminal, dust-protected (V23154)						
<b>M0</b>	Size I, for printed circuit mounting, with earth terminal, dust-protected (V23154)						
<b>M4</b>	Size I, for printed circuit mounting, without earth terminal, dust-protected (V23154)						
<b>N0</b>	Size II, for printed circuit mounting, with earth terminal, dust-protected (V23154)						
<b>N4</b>	Size II, for printed circuit mounting, without earth terminal, dust-protected (V23154)						
V23162 types							
<b>A0</b>	Size I, for plug-in and screw fixing, hand solder terminals tinned, hermetically sealed (V23162)						
<b>B0</b>	Size II, for plug-in and screw fixing, hand solder terminals tinned, hermetically sealed (V23162)						
<b>H0</b>	Size II, for plug-in and screw, fixing, hand solder terminals, gold-plated, hermetically sealed (V23162)						
<b>Coils</b>		Coil code: please refer to coil versions table					
<b>Contact style</b>							
<b>B1</b>	Single contacts	<b>B6</b>	Single contacts	<b>F1</b>	Single contacts		
<b>C1</b>	Bifurcated contacts	<b>C4</b>	Bifurcated contacts				
<b>Contact arrangement</b>							
<b>04</b>	2 form C, 2 CO	<b>05</b>	2 form A, 1 NO	<b>06</b>	1 form A+ 1 form B, 1 NO+ 1 NC		
<b>07</b>	2 form B, 2 NC	<b>10</b>	4 form C, 4 CO	<b>12</b>	6 form A, 6 NO		

Other types on request

Product code	Version	Coil	Operate/Lim.Arrangement	Contacts	Terminals	Enclosure	PartNumber
<b>V23154-C0XX, standard, size I</b>							
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



**Cradle N Relay V23154/V23162** (Continued)

Product code	Version	Coil	Operate/Lim.Arrangement	Contacts	Terminals	Enclosure	PartNumber
<b>V23154-D0XX, standard, size II</b>							
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
<b>V23154-D0XX, 5A, size</b>							
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
<b>V23154-M0XX, standard, size I</b>							
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
<b>V23154-M0XX, standard, size I</b>							
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
<b>V23154-M0XX, 5A, size I</b>							
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
<b>V23154-M4XX, standard, size I</b>							
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
<b>V23154-M4XX, 5A, size I</b>							
V23154-M4721-F106	5A, size I	24VDC	11/40VDC	1A+1B	Single	PCB	Dust protected 2-1422030-4

**Cradle N Relay V23154/V23162 (Continued)**

Product code	Version	Coil	Operate/Lim.Arrangement	Contacts	Terminals	Enclosure	PartNumber
<b>V23154-N0XX, standard, size II</b>							
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
<b>V23154-N0XX, 5A, size II</b>							
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
<b>V23154-N4XX, standard, size II</b>							
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
<b>V23154-N4XX, 5A, size II</b>							
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
<b>V23162-A0XX, standard, size I</b>							
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
<b>V23162-A0XX, standard, size I</b>							
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





**Cradle N Relay V23154/V23162** (Continued)

Product code	Version	Coil	Operate/Lim.Arrangement	Contacts	Terminals	Enclosure	PartNumber
<b>V23162-H0XX, 5A, size II</b>							
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