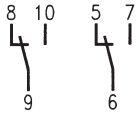


Cradle P Relay V23003 (Continued)

Terminal assignment

Size I

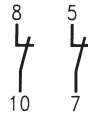
2 form C (2 CO)
V23003-xxxx-Bx04
V23003-xxxx-Cx04



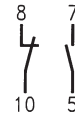
2 form A (2 NO)
V23003-xxxx-F105



2 form B (2 NC)
V23003-xxxx-F107

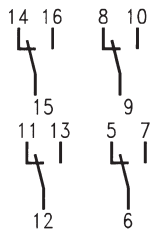


1 form A + 1 form B
(1 NO + 1 NC)
V23003-xxxx-F106

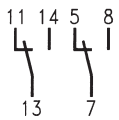


Size II

4 form C (4 CO)
V23003-xxxx-Bx10

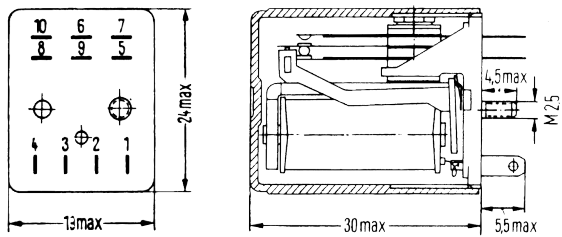


2 form C (2 CO)
V23003-xxxx-F104

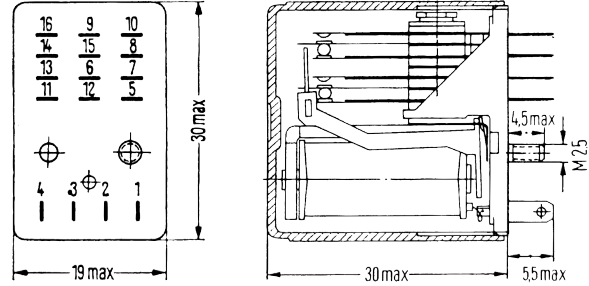


Dimensions

V23003-A0xx, size I type



V23003-B0xx, size II type



Cradle P Relay V23003 (Continued)

Instructions for Impulse Operation

Cradle relay P is primarily intended for impulse operation. The maximum voltage stated in the coil 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

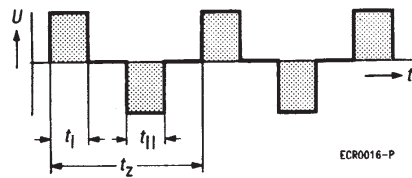
The impulse voltage must not exceed 80% of the test voltage (winding/frame or winding/winding) or 3.3 times at ambient temperature 20°C and 2.3 times at ambient temperature <20°C the value of the maximum voltage listed in the coil table.

If $t_{ED} \leq 3s$ then $q = \sqrt{\frac{t_2}{t_{ED}}}$; t_{ED} = Pulse width, t_2 = Cycle time.

If $t_{ED} > 3s$ the value of q must be obtained from the nomograph.

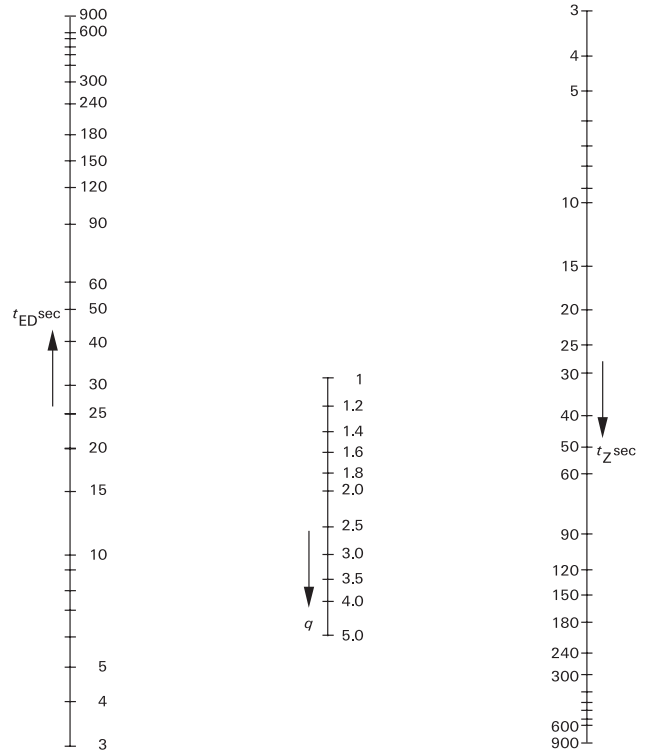
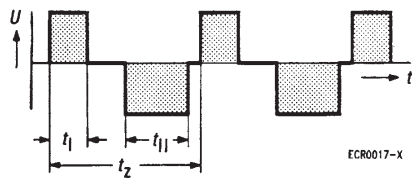
Examples of various periodic pulse trains (energizing side)

1. Periodic recurrence of one energizing pulse



$t_{ED} = t_1 + t_{11}$
 t_1 = Pulse width of the positive pulse at the start of the winding
 t_{11} = Pulse width of the negative pulse at the start of the winding
 $t_1 + t_{11}$ = Pulse widths within one cycle

2. Periodic recurrence of two unequal energizing pulses



Product code structure

Typical product code **V23003 -B0 037 -F1 04**

Type V23003 Cradle P Relay, dust protected					
Size A0 Size I, dust-protected B0 Size II, dust-protected					
Coils Coil code: please refer to coil versions table					
Contact style B1 Single contacts C1 Bifurcated contacts		B6 Single contacts C4 Bifurcated contacts		F1 Single contacts	
Contact arrangement 04 2 form C, 2 CO 10 4 form C, 4 CO		05 2 form A, 1 NO		06 1 form A+ 1 form B, 1 NO+ 1 NC	

Other types on request