

**Type:** **C7-W1x/ ... V**  
 Power relay for high inrush current  
 1 pole normally open

**Maximum contact load:** **10 A/250 V AC**      **6 A/250 V AC5a/b**  
**Recommended minimum contact load:** **10 mA/10 V**

**Contacts**

|                                 |          |        |            |
|---------------------------------|----------|--------|------------|
| Material                        | Standard | Code 0 | AgNi/W     |
| Rated current                   |          |        | 10 A       |
| Switch-on current max. (2,5 ms) |          |        | 500 A      |
| Switching voltage max.          |          |        | 250 V      |
| AC load (Fig 1)                 |          |        | 2,5 kVA    |
| DC load                         |          |        | see fig. 2 |

**Coil**

|                 |                                 |
|-----------------|---------------------------------|
| Coil resistance | see table; tolerance $\pm 10\%$ |
| Pick-up voltage | $\leq 0,8 \times U_N$           |
| Release voltage | $\geq 0,1 \times U_N$           |
| Nominal power   | 1,5 VA (AC)/1,5 W (DC)          |

**Coil table**

| VAC | $\Omega$ | mA  | VDC | $\Omega$ | mA  |
|-----|----------|-----|-----|----------|-----|
| 24  | 153      | 62  | 12  | 99       | 121 |
| 48  | 611      | 31  | 24  | 388      | 61  |
| 115 | 3K6      | 13  | 48  | 1K5      | 32  |
| 230 | 14K5     | 6,5 | 110 | 8K       | 14  |

**Insulation**

|                                |                          |
|--------------------------------|--------------------------|
|                                | Volt rms, 1 min          |
| Contact open                   | 1000 V                   |
| Contact/coil                   | 2,5 kV                   |
| Insulation resistance at 500 V | $\geq 1 \text{ G}\Omega$ |
| Insulation, IEC 61810-1        | 2,5 kV                   |

**Specifications**

|                                       |                                      |
|---------------------------------------|--------------------------------------|
| Ambient temperature operation/storage | -40 (no ice)...60 °C / -40 ... 80 °C |
| Pick-up time/bounce time              | 20 ms/ $\leq 3$ ms                   |
| Release time/bounce time              | 10 ms/ $\leq 1$ ms                   |
| Mechanical life ops                   | AC: 10 Mill./DC: 20 Mill.            |
| DC voltage endurance at rated load    | $\geq 100000$ switching cycles       |
| Switching frequency at rated load     | $\leq 1200/\text{h}$                 |
| Protection class                      | IP40                                 |
| Weight                                | 43 g                                 |

**Standard types**

**VAC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240) LED**

**VDC 12, 24, 48, 110**

**LED**

**Free wheeling diode**

**Polarity and free wheeling diode**

**AC/DC bridge rectifier 24 V, 48 V, 60 V**

**C7-W10/AC ... V**  
**C7-W10X/AC ... V**

**C7-W10/DC ... V**  
**C7-W10X/DC ... V**  
**C7-W10DX/DC ... V**  
**C7-W10FX/DC ... V**

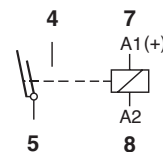
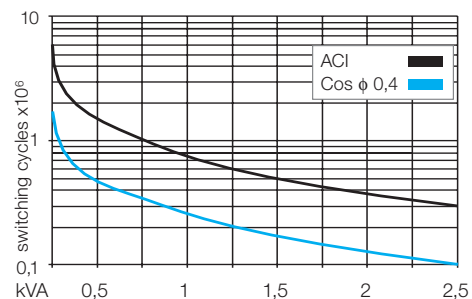
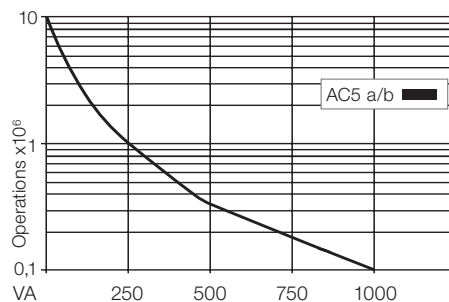
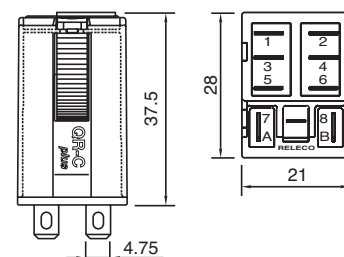
**C7-W10BX/UC ... V**

"..." Enter the voltage for full type designation

**Accessories**

Socket:  
 Optional accessories (blanking plug):

**S7-M, S7-I/O, S7-L, S7-P, S7-P0**  
**S9-NP, S9-OP**

**Connection diagram****Fig. 1 AC voltage endurance****Fig. 2 AC voltage endurance****Dimensions [mm]****Technical approvals, conformities**

IEC 61810; EN 60947