

**QRC series**  
**C7-X1x**  
**8-pin, miniature power relay, 1-pole, double make contact, faston**

**Type** **C7-X1x/ ... V**  
 Power relay, DC application  
 1 pole, NO, double make

**Maximum contact load** **10 A/250 V AC1** **6 A/110 V DC1**  
**10 A/30 V DC1** **1 A/220 V DC1**

**Contacts**  
 Material Standard Code 0 AgNi  
 Rated current 10 A  
 Switch-on current max. (20 ms) 30 A  
 Switching voltage max. 250 V  
 AC load 2,5 kVA  
 DC load see Fig. 2

**Coil**  
 Coil resistance see table; tolerance  $\pm 10\%$   
 Pick-up voltage  $\geq 0,8 \times U_N$   
 Release voltage  $\geq 0,1 \times U_N$   
 Nominal power 1,5 VA (AC)/1,3 W (DC)

**Coil table**

VAC	$\Omega$	mA	VDC	$\Omega$	mA
24	153	62	12	111	108
48	611	31	24	432	55
115	3K6	13	48	1K7	27
230	14K6	6,5	110	9K2	12

**Insulation** Volt rms, 1 min  
 Contact open 2,5 kV  
 Contact/coil 2,5 kV  
 Insulation resistance at 500 V  $\geq 1 \text{ G}\Omega$   
 Insulation, IEC 61810-5 2,5 kV/3

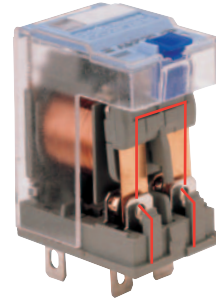
**Specifications**  
 Ambient temperature operation/storage -40 (no ice)...60 °C /-40 ... 80 °C  
 Pick-up time/bounce time 20 ms/ $\leq 3$  ms  
 Release time/bounce time 10 ms/ $\leq 1$  ms  
 Mechanical life AC: 10 Mill./DC: 20 Mill. switching cycles  
 AC voltage endurance at rated load  $\geq 100000$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

**Standard types**  
**AC 50 Hz/60 Hz: 24, 48, 115, (120), 230, (240) LED**  
**DC 12, 24, 48, 110 LED**  
**Free wheeling diode**  
**Polarity and free wheeling diode**  
**AC/DC bridge rectifier 24 V, 48 V, 60 V**

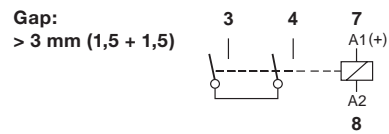
**C7-X10/AC ... V**  
**C7-X10X/AC ... V**  
**C7-X10/DC ... V**  
**C7-X10X/DC ... V**  
**C7-X10DX/DC ... V**  
**C7-X10FX/DC ... V**  
**C7-X10BX/UC ... V**

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

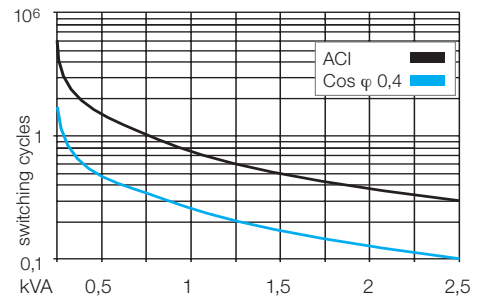
**Accessories**  
 Socket: **S7-M, S7-I/O, S7-L, S7-P, S7-P0**



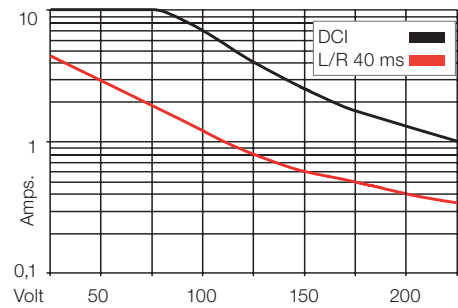
**Connection diagram**



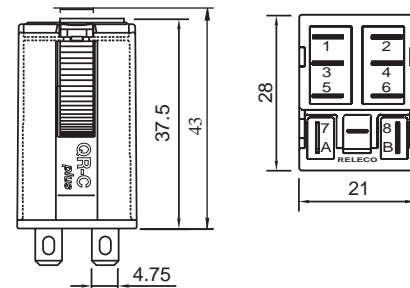
**Fig. 1 AC voltage endurance**



**Fig. 2 DC load limit curve**



**Dimensions [mm]**



**Technical approvals, conformities**



IEC 61810; EN 60947