

**QRC series**  
**C7-W1x**  
**8-pin, miniature relay, 1-pole, wolfram contact, faston**

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

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

**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			2,5 kVA
DC load			see fig. 2

**Coil**

Coil resistance	see table; tolerance ± 10 %
Pick-up voltage	≥ 0,8 x U <sub>N</sub>
Release voltage	≥ 0,1 x U <sub>N</sub>
Nominal power	1,5 VA (AC)/1,5 W (DC)

**Coil table**

VAC	Ω	mA	VDC	Ω	mA
24	153	62	12	99	121
48	611	31	24	388	61
115	3K6	13	48	1K5	32
230	14K6	4,5	110	8K	14

**Insulation** Volt rms, 1 min

Contact open	1000 V
Contact/contact	2,5 kV
Contact/coil	2,5 kV
Insulation resistance at 500 V	≥ 1 GΩ
Insulation, IEC 61810-5	2,5 kV

**Specifications**

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

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

**DC 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**

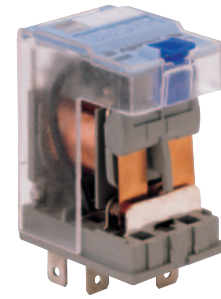
**C7-W10/DC ... V**  
**C7-W10X/DC ... V**  
**C7-W10DX/DC ... V**  
**C7-W10FX/DC ... V**

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

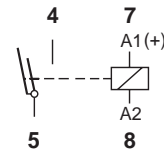
"..." Enter the voltage for full type designation

**Accessories**

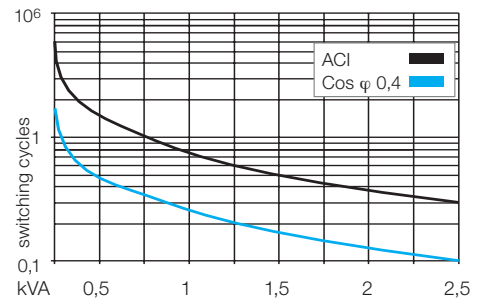
Socket:	<b>S7-M, S7-I/O, S7-L, S7-P, S7-P0</b>
Operational accessories (blanking plug):	<b>S9-NP, S9-OP</b>



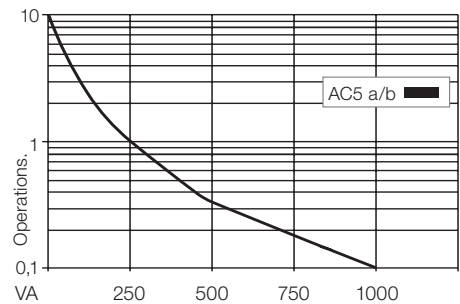
**Connection diagram**



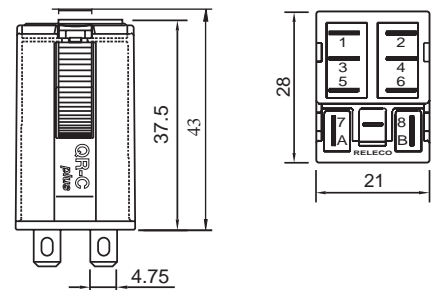
**Fig. 1 AC voltage endurance**



**Fig. 2 AC voltage endurance**



**Dimensions [mm]**



**Technical approvals, conformities**



IEC 61810; EN 60947



**Kühn Controls AG**

**Notes:**

You want more information about this product, please call us: tel: +49 (0)7082-940000 or send us a fax: +49 (0)7082-940001, or email: [sales@kuehn-controls.de](mailto:sales@kuehn-controls.de) or visit our Website: [www.kuehn-controls.de](http://www.kuehn-controls.de)