

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 _N
Release voltage	≥ 0,1 x U _N
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

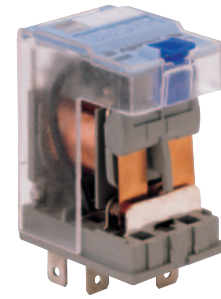
C7-W10/DC ... V
C7-W10X/DC ... V
C7-W10DX/DC ... V
C7-W10FX/DC ... V

C7-W10BX/UC ... V

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

Accessories

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



Connection diagram

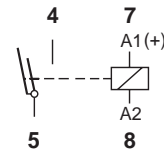


Fig. 1 AC voltage endurance

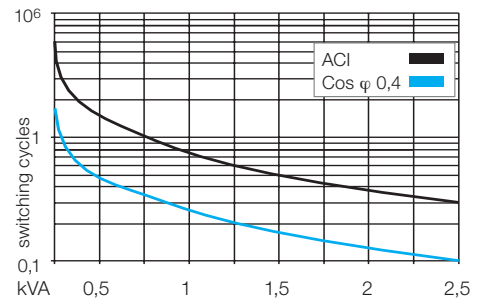
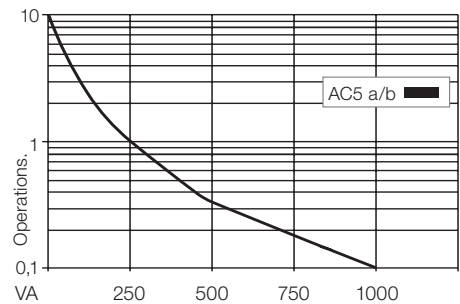
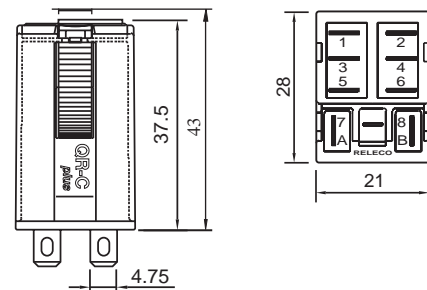


Fig. 2 AC voltage endurance



Dimensions [mm]



Technical approvals, conformities



IEC 61810; EN 60947



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 or visit our Website: www.kuehn-controls.de