

QRC series
C9-A4x
14-pin, miniature relay, 4-pole, plug-in, faston

Type **C9-A4x/ ... V**
 Standard relays
 4 change-over contacts

Maximum contact load **5 A/250 V AC 1** **5 A/30 V DC1**
Recommended minimum contact load **1 mA/10 V** (with 10 μ Au)
10 mA/10 V (standard contact)

Contacts

Material	Standard	Code 1	AgNi + 0,2 μ Au
	Optional	Code 2	AgNi + 10 μ Au
Rated current	5 A		
Switch-on current max. (2,5 ms)	15 A		
Switching voltage max	250 V		
AC load	1,250 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 1,2 VA (AC)/1 W (DC)

Coil table

VAC	Ω	mA	VDC	Ω	mA
24	174	50	12	148	85
48	686	25	24	594	43
115	4K3	10,4	48	2K3	21
230	18K6	5,2	110	11K4	11

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 G Ω
 Insulation, IEC 61810-5 2,5 kV/3

Specifications

Ambient temperature operation/storage -40 (no ice)...60 $^{\circ}$ C / -40 ... 80 $^{\circ}$ C
 Pick-up time/bounce time 10 ms/ ≤ 3 ms
 Release time/bounce time 6 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, 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

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

C9-A41/AC ... V

C9-A41X/AC ... V

C9-A41/DC ... V

C9-A41X/DC ... V

C9-A41DX/DC ... V

C9-A41FX/DC ... V

C9-A41BX/UC ... V

C9-A42/AC ... V

C9-A42X/AC ... V

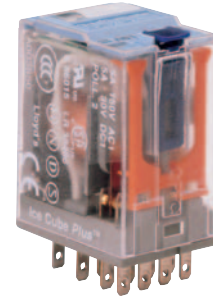
C9-A42/DC ... V

C9-A42X/DC ... V

C9-A42DX/DC ... V

C9-A42FX/DC ... V

C9-A42BX/UC ... V



Connection diagram

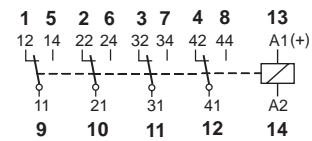


Fig. 1 AC voltage endurance

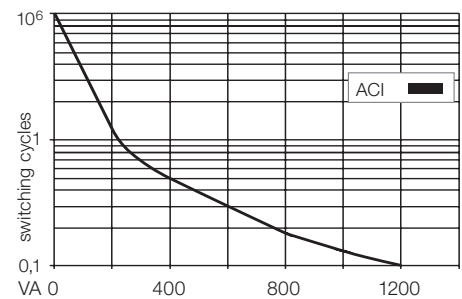
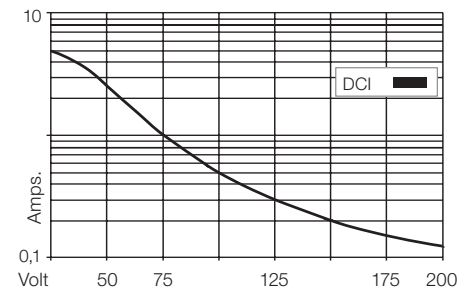
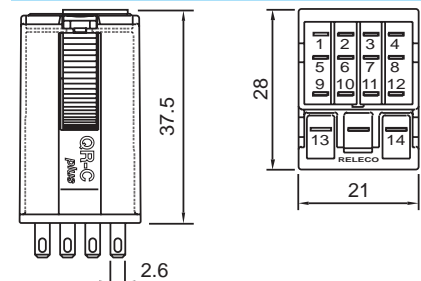


Fig. 2 DC load limit curve



Dimensions [mm]



FASTON .102

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