

**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 ± 10 %
Pick-up voltage	≥ 0,8 x U <sub>N</sub>
Release voltage	≥ 0,1 x U <sub>N</sub>
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 GΩ
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	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**

<b>C9-A41/AC ... V</b>	<b>C9-A42/AC ... V</b>
<b>C9-A41X/AC ... V</b>	<b>C9-A42X/AC ... V</b>
<b>C9-A41/DC ... V</b>	<b>C9-A42/DC ... V</b>
<b>C9-A41X/DC ... V</b>	<b>C9-A42X/DC ... V</b>
<b>C9-A41DX/DC ... V</b>	<b>C9-A42DX/DC ... V</b>
<b>C9-A41FX/DC ... V</b>	<b>C9-A42FX/DC ... V</b>
<b>C9-A41BX/UC ... V</b>	<b>C9-A42BX/UC ... V</b>

**DC 12, 24, 48, 110**

**LED**

**Free wheeling diode**

**Polarity and free wheeling diode**

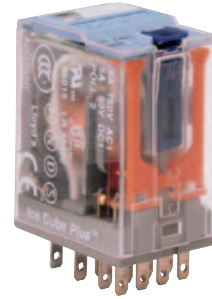
**AC/DC bridge rectifier 24 V, 48 V, 60 V**

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

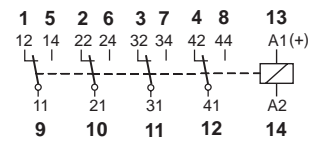
**Accessories**

Socket: **S9-M, S9-L, S9-P, S9-P0**

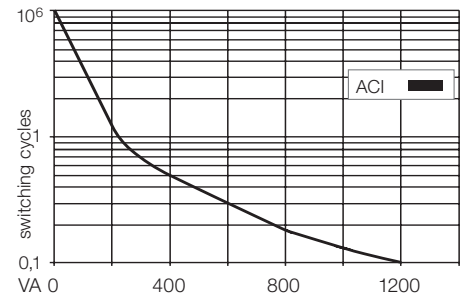
Operational accessories (blanking plug): **S9-NP, S9-OP**



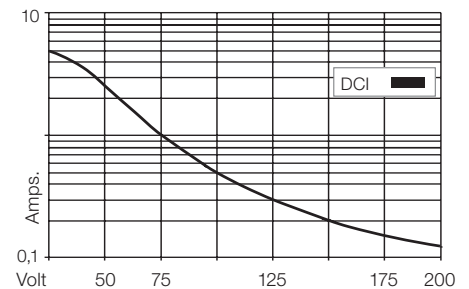
**Connection diagram**



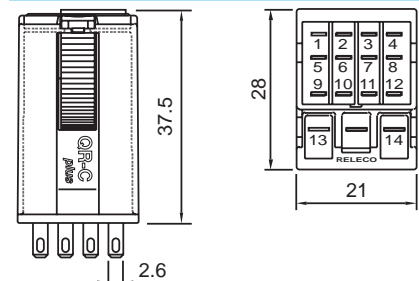
**Fig. 1 AC voltage endurance**



**Fig. 2 DC load limit curve**



**Dimensions [mm]**



**FASTON .102**

**Technical approvals, conformities**



IEC 61810; EN 60947