

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 x U _N
Release voltage	\geq 0,1 x 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	\geq 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/ \leq 3 ms
Release time/bounce time	6 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

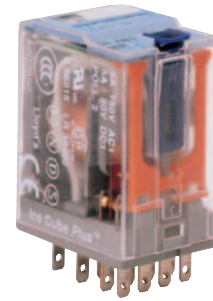
Standard types

AC 50 Hz/60 Hz: 24, 48, 115, 230, (240)	C9-A41/AC ... V	C9-A42/AC ... V
LED	C9-A41X/AC ... V	C9-A42X/AC ... V
DC 12, 24, 48, 110	C9-A41/DC ... V	C9-A42/DC ... V
LED	C9-A41X/DC ... V	C9-A42X/DC ... V
Free wheeling diode	C9-A41DX/DC ... V	C9-A42DX/DC ... V
Polarity and free wheeling diode	C9-A41FX/DC ... V	C9-A42FX/DC ... V
AC/DC bridge rectifier 24 V, 48 V, 60 V	C9-A41BX/UC ... V	C9-A42BX/UC ... 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

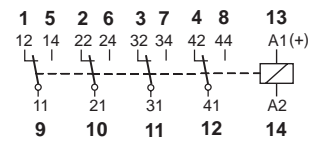


Fig. 1 AC voltage endurance

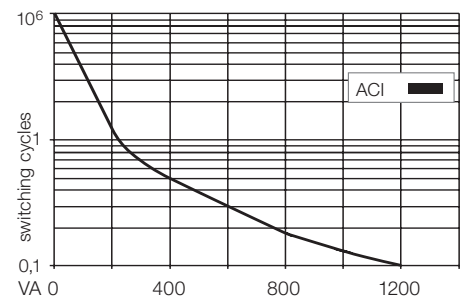
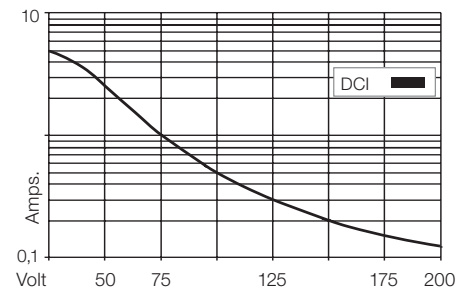
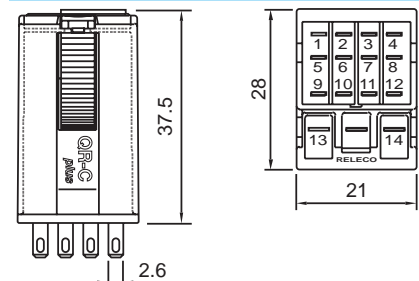


Fig. 2 DC load limit curve



Dimensions [mm]



FASTON .102

Technical approvals, conformities



IEC 61810; EN 60947