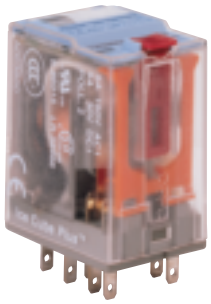
QRC series

C9-E2x

8-pin, miniature relay, 2-pole, plug-in, faston

Type	**C9-E2x/ ... V** Sensitive relay, 500 mW 2 change-over contacts
DC operating range	**0,8 ...1,7 x U_N**
Maximum contact load	**5 A/250 V AC1 5 A/30 V DC1**
Recommended minimum contact load	**10 mA/10 V Code 1** **5 mA/5 V Code 2**



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. (20 ms)			15 A
Switching voltage max.			250 V
AC load (Fig 1)			1200 VA
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	0,8 VA (AC)/0,5 W (DC)

Coil table

VAC	Ω	mA	VDC	Ω	mA
24	238	33	12	288	42
48	1K	17	24	1K1	21
115	5K9	7	48	4K6	10
230	23K9	3,5	110	24K2	4,5

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 61810-1	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.
DC voltage endurance at rated load	≥100000 switching cycles
Switching frequency at rated load	≤ 1200/h
Protection class	IP40
Weight	40 g

Standard types

VAC 50 Hz/60 Hz: 24, 48, 115, 230 (240)	**C9-E21/AC ... V**	**C9-E22/AC ... V**
LED	**C9-E21X/AC ... V**	**C9-E22X/AC ... V**
VDC 12, 24, 48, 110, 220	**C9-E21/DC ... V**	**C9-E22/DC ... V**
LED	**C9-E21X/DC ... V**	**C9-E22X/DC ... V**
Free wheeling diode	**C9-E21DX/DC ... V**	**C9-E22DX/DC ... V**
Polarity and free wheeling diode	**C9-E21FX/DC ... V**	**C9-E22FX/DC ... V**
AC/DC bridge rectifier 24 V, 48 V, 60 V	**C9-E21BX/UC ... V**	**C9-E22BX/UC ... V**

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

Accessories

Socket:	**S9-M, S9-L, S9-P, S9-P0**
Optional accessories (blanking plug):	**S9-NP, S9-OP**

Connection diagram

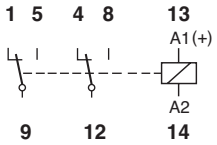


Fig. 1 AC voltage endurance

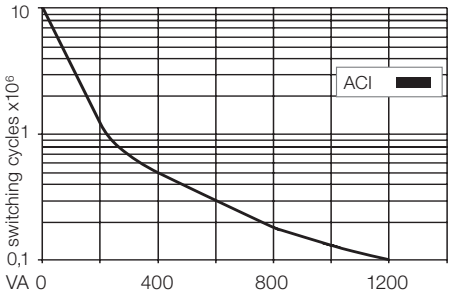
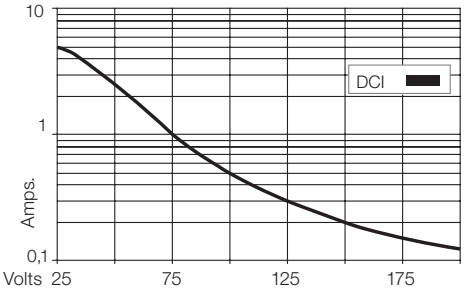
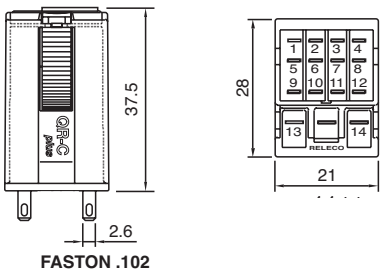


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities

Lloyd's

IEC 61810; EN 60947