QRC series

C90-A4x

14-pin, miniature relay, 4-pole, plug-in, faston

Type	**C90-A4x/…V** Standard relays 4 change-over contacts
Maximum contact load	**5 A / 50 V AC 1, 5 A / 30 V DC1**
Recommended minimum contact load	**10 mA / 10 V** C90-A4**1**/…V **5 mA / 5 V** C90-A4**2**/…V

Contacts

Material	Standard	C90-A4**1**/…V	AgNi
	Optional	C90-A4**2**/…V	AgNi + 5 µ Au
Rated current			5 A
Switch-on current max. (20 ms)			15 A
Switching voltage max (same polarity)			250 V
AC load (Fig. 1)			1.250 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 W (DC)

Coil Table

VAC	Ω	mA	VDC	Ω	mA
24	190	53	12	140	86
48	770	25	24	600	40
120	4K7	12	48	2K4	20
230	17K	6	110	12K5	8,8
240	19K1	5,3			

Insulation

Pulse (1.2 / 50 µs) / Dielectric strength (V rms, 1 minute)

Contact / coil	4 kV / 2 kV
Contact / contact	2.5 kV / 2 kV
Contact / open	1.5 kV / 1 kV

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 ops	AC: 10 Mill. / DC: 20 Mill.
DC voltage endurance at rated load	≥100000 switching cycles
Protection class	RT1
Weight	36 g

Standard types

V AC 50 Hz / 60 Hz: 24, 28, 120, 230, 240	**C90-A41/AC…V**	**C90-A42/AC…V**
LED	**C90-A41X/AC…V**	**C90-A42X/AC…V**
V DC 50 Hz / 60 Hz: 12, 24, 48, 110	**C90-A41/DC…V**	**C90-A42/DC…V**
LED	**C90-A41X/DC…V**	**C90-A42X/DC…V**
Free wheeling diode	**C90-A41DX/DC…V**	**C90-A42DX/DC…V**

«…» Enter the voltage for the full type designation

Accessories

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

Connection diagram

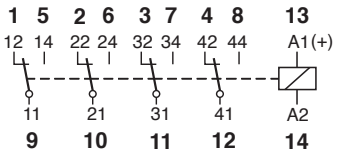


Fig. 1 AC voltage endurance

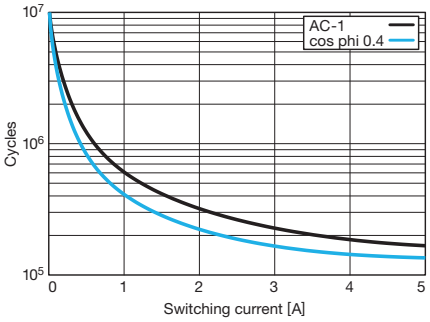
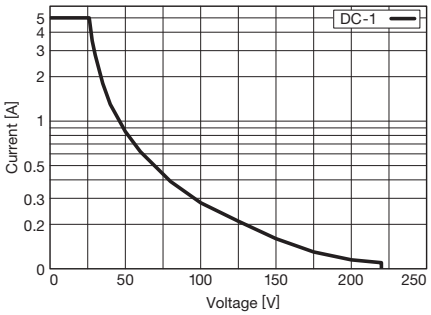
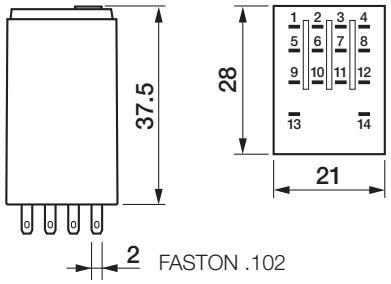


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities

Lloyd´s

IEC 61810

This issue replaces all previous issues. Availability, errors and specifications subject to change without notice.

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