

QRC series

C7-A2x

8-pin, miniature relay, 2-poles, faston

Type	C7-A2x/ ... V Standard relay 2 change-over contact		
Maximum contact load	10 A/250 V AC1	0,5 A/110 V DC1	
	10 A/30 V DC1	0,2 A/220 V DC1	
Recommended minimum contact load	10 mA/10 V		

Contacts

Material	Standard	Code 0	AgNi
	Optional	Code 8	AgNi + 10 μ Au
	Optional	Code 9	AgNi + 0,2 μ Au
Rated current	10 A		
Switch-on current max. (20 ms)	30 A		
Switching voltage max.	250 V		
AC load (Fig 1)	2,5 kVA		
DC load	see Fig. 2		

Coil

Coil resistance	see table; tolerance $\pm 10\%$
Pick-up voltage	$\leq 0,8 \times U_N$
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	$\geq 1 \text{ G}\Omega$
Insulation, IEC 61810-5	2,5 kV/3

Specifications

Ambient temperature operation/storage	-40 (no ice)...60 $^{\circ}\text{C}$ / -40 ... 80 $^{\circ}\text{C}$
Pick-up time/bounce time	16 ms/ ≤ 3 ms
Release time/bounce time	8 ms/ ≤ 1 ms
Mechanical life ops	AC: 10 Mill./DC: 20 Mill.
DC voltage endurance at rated load	≥ 100000 switching cycles
Switching frequency at rated load	$\leq 1200/\text{h}$
Protection class	IP40
Weight	43 g

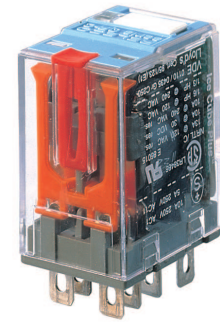
Standard types

AC 50 Hz/60 Hz: 24, 48, 115, (120), 230, (240) LED	C7-A20/AC ... V	C7-A28/AC ... V	C7-A29/AC ... V
	C7-A20X/AC ... V	C7-A28X/AC ... V	C7-A29X/AC ... V
DC: 12, 24, 48, 110 LED	C7-A20/DC ... V	C7-A28/DC ... V	C7-A29/DC ... V
	C7-A20X/DC ... V	C7-A28X/DC ... V	C7-A29X/DC ... V
Free wheeling diode	C7-A20DX/DC ... V	C7-A28DX/DC ... V	C7-A29DX/DC ... V
Polarity and free wheeling diode	C7-A20FX/DC ... V	C7-A28FX/DC ... V	C7-A29FX/DC ... V
AC/DC bridge rectifier 24 V, 48 V, 60 V	C7-A20BX/UC ... V	C7-A28BX/UC ... V	C7-A29BX/UC ... V

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

Accessories

Socket: **S7-M, S7-I/O, S7-L, S7-P, S7-P0**



Connection diagram

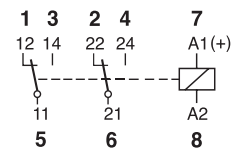


Fig. 1 AC voltage endurance

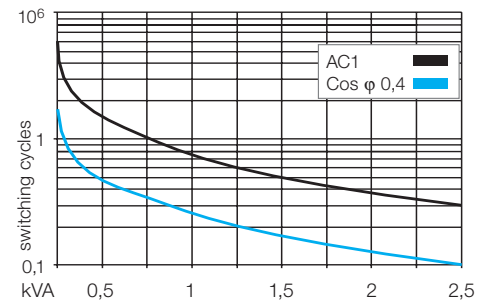
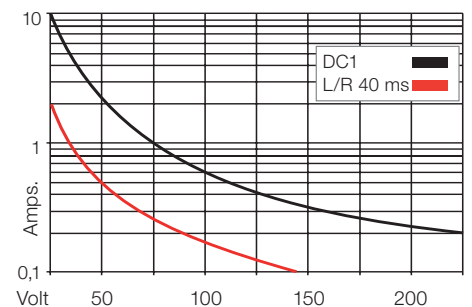
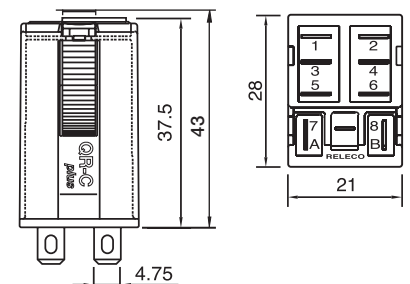


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities

