

## QRC series

### C7-A2x

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

RELECO

#### 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

1 mA/10 V (with 10  $\mu$  Au)

10 mA/10 V (standard contact)

#### Contacts

|          |          |        |                     |
|----------|----------|--------|---------------------|
| Material | Standard | Code 0 | AgNi                |
|          | Optional | Code 8 | AgNi + 10 $\mu$ Au  |
|          | Optional | Code 9 | AgNi + 0,2 $\mu$ Au |

Rated current

10 A

Switch-on current max. (20 ms)

30 A

Switching voltage max.

250 V

AC load

2,5 kVA

DC load

see Fig. 2

#### Coil

Coil resistance

see table; tolerance  $\pm 10\%$

Pick-up voltage

$\geq 0,8 \times U_N$

Release voltage

$\geq 0,1 \times U_N$

Nominal power

1,2 VA (AC)/1 W (DC)

#### Coil table

| VAC | $\Omega$ | mA   | VDC | $\Omega$ | mA |
|-----|----------|------|-----|----------|----|
| 24  | 174      | 50   | 12  | 148      | 85 |
| 48  | 686      | 25   | 24  | 594      | 43 |
| 115 | 4K3      | 10,4 | 48  | 2K3      | 21 |
| 230 | 11K6     | 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/ $\leq 3$ ms                                                   |
| Release time/bounce time              | 8 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     | $\leq 1200/\text{h}$                                                 |
| Protection class                      | IP40                                                                 |
| Weight                                | 43 g                                                                 |

#### Standard types

AC 50 Hz/60 Hz: 24, 48, 115, (120), 230, (240)

LED

DC 24, 48, 110

LED

Free wheeling diode

Polarity and free wheeling diode

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

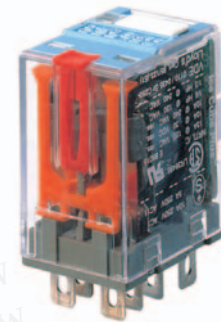
|                   |                   |                   |
|-------------------|-------------------|-------------------|
| C7-A20/AC ... V   | C7-A28/AC ... V   | C7-A29/AC ... V   |
| C7-A20X/AC ... V  | C7-A28X/AC ... V  | C7-A29X/AC ... V  |
| C7-A20/DC ... V   | C7-A28/DC ... V   | C7-A29/DC ... V   |
| C7-A20X/DC ... V  | C7-A28X/DC ... V  | C7-A29X/DC ... V  |
| C7-A20DX/DC ... V | C7-A28DX/DC ... V | C7-A29DX/DC ... V |
| C7-A20FX/DC ... V | C7-A28FX/DC ... V | C7-A29FX/DC ... 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

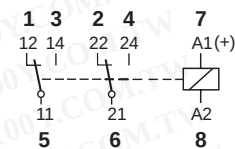


Fig. 1 AC voltage endurance

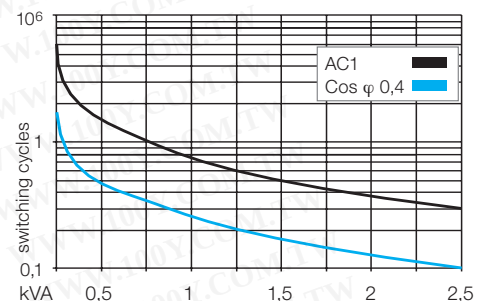
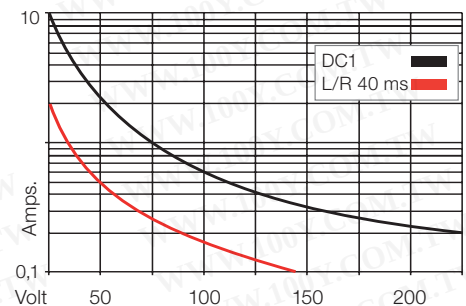
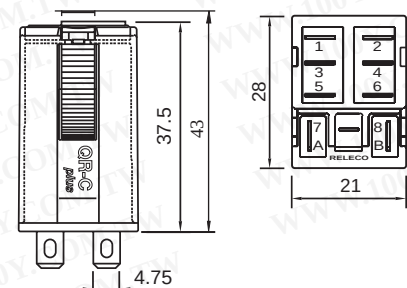


Fig. 2 DC load limit curve



#### Dimensions [mm]



#### Technical approvals, conformities

