

# QRC series

## C7-T2x

### 8-pin, miniature relay, 2-poles, twin contact, faston

|                                         |                                                                                            |                    |                 |            |
|-----------------------------------------|--------------------------------------------------------------------------------------------|--------------------|-----------------|------------|
| <b>Type</b>                             | <b>C7-T2x/ ... V</b><br>Standard relays for low level<br>2 change-over bifurcated contacts |                    |                 |            |
| <b>Maximum contact load</b>             | <b>6 A/250 V</b>                                                                           | <b>AC1</b>         | <b>6 A/30 V</b> | <b>DC1</b> |
| <b>Recommended minimum contact load</b> | <b>1 mA/5 V</b>                                                                            | (with 10 µ Au)     |                 |            |
|                                         | <b>5 mA/5 V</b>                                                                            | (standard contact) |                 |            |

|                                |          |        |                 |
|--------------------------------|----------|--------|-----------------|
| <b>Contacts</b>                |          |        |                 |
| Material                       | Standard | Code 1 | AgNi + 0,2 µ Au |
|                                | Optional | Code 2 | AgNi + 10 µ Au  |
| Rated current                  |          |        | 6 A             |
| Switch-on current max. (20 ms) |          |        | 15 A            |
| Switching voltage max.         |          |        | 250 V           |
| AC load                        |          |        | 1,2 kVA         |
| DC load                        |          |        | see f.g. 2      |

|                 |  |  |                             |
|-----------------|--|--|-----------------------------|
| <b>Coil</b>     |  |  |                             |
| Coil resistance |  |  | see table; tolerance ± 10 % |
| Pick-up voltage |  |  | ≥ 0,8 x U <sub>N</sub>      |
| Release voltage |  |  | ≥ 0,1 x U <sub>N</sub>      |
| 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 |
|            |     |      |      |     |      |    |

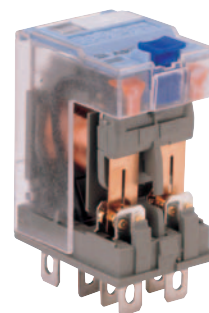
|                                |                 |
|--------------------------------|-----------------|
| <b>Insulation</b>              | Volt rms, 1 min |
| Contact open                   | 1000 V          |
| Contact/contact                | 2,5 kV          |
| Contact/coil                   | 2,5 kV          |
| Insulation resistance at 500 V | ≥ 1 GΩ          |
| Insulation, IEC 61810-5        | 2,5 kV/3        |

|                                       |                                            |
|---------------------------------------|--------------------------------------------|
| <b>Specifications</b>                 |                                            |
| Ambient temperature operation/storage | -40 (no ice)...60 °C / -40 ... 80 °C       |
| Pick-up time/bounce time              | 16 ms/≤ 3 ms                               |
| Release time/bounce time              | 8 ms/≤ 1 ms                                |
| Mechanical life                       | AC: 10 Mill./DC: 20 Mill. switching cycles |
| AC voltage endurance at rated load    | ≥ 100000 switching cycles                  |
| Switching frequency at rated load     | ≤ 1200/h                                   |
| Protection class                      | IP40                                       |
| Weight                                | 43 g                                       |

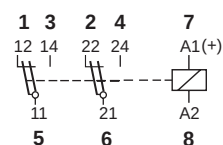
|                                                       |                          |                          |
|-------------------------------------------------------|--------------------------|--------------------------|
| <b>Standard types</b>                                 |                          |                          |
| <b>AC 50 Hz/60 Hz: 24, 48, 115, (120), 230, (240)</b> | <b>C7-T21/AC ... V</b>   | <b>C7-T22/AC ... V</b>   |
| <b>LED</b>                                            | <b>C7-T21X/AC ... V</b>  | <b>C7-T22X/AC ... V</b>  |
| <b>DC 24, 48, 110</b>                                 | <b>C7-T21/DC ... V</b>   | <b>C7-T22/DC ... V</b>   |
| <b>LED</b>                                            | <b>C7-T21X/DC ... V</b>  | <b>C7-T22X/DC ... V</b>  |
| <b>Free wheeling diode</b>                            | <b>C7-T21DX/DC ... V</b> | <b>C7-T22DX/DC ... V</b> |
| <b>Polarity and free wheeling diode</b>               | <b>C7-T21FX/DC ... V</b> | <b>C7-T22FX/DC ... V</b> |
| <b>AC/DC bridge rectifier 24 V, 48 V, 60 V</b>        | <b>C7-T21BX/UC ... V</b> | <b>C7-T22BX/UC ... V</b> |

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

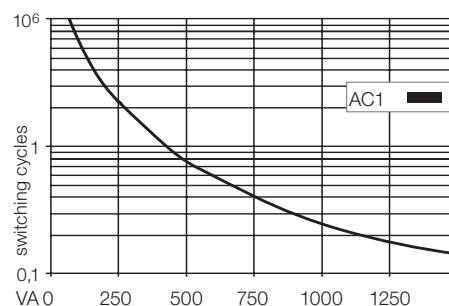
|                    |                                        |
|--------------------|----------------------------------------|
| <b>Accessories</b> |                                        |
| Socket:            | <b>S7-M, S7-I/O, S7-L, S7-P, S7-P0</b> |



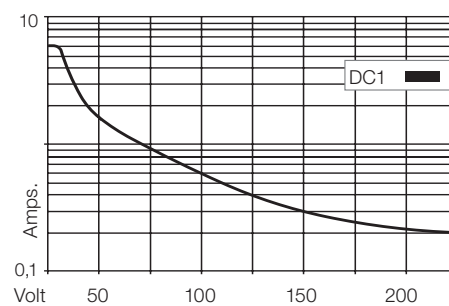
**Connection diagram**



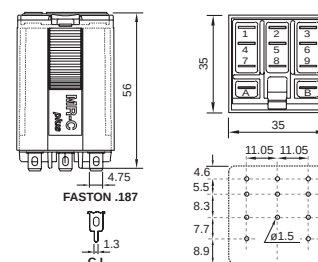
**Fig. 1 AC voltage endurance**



**Fig. 2 DC load limit curve**



**Dimensions [mm]**



**Technical approvals, conformities**



IEC 61810; EN 60947