

MRC series

C3-T3x

11-pin standard relay, 3-pole, double contact, plug-in according to IEC 67-I-18a

| | | | | |
|---|--|--------------------|-----------------|------------|
| Type | C3-T3x/ ... V Standard relays for low level 3 change-over twin contacts | | | |
| Maximum contact load | 6 A/250 V | AC 1 | 6 A/30 V | DC1 |
| Recommended minimum contact load | 1 mA/5 V | (with 10 µm Au) | | |
| | 5 mA/5 V | (standard contact) | | |

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|--------------------------------|------------|--------|-----------------|--|
| Contacts | | | | |
| Material | Standard | Code 1 | AgNi + 0,3 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 Fig. 2 | | | |

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|-----------------|-----------------------------|--|--|--|
| Coil | | | | |
| Coil resistance | see table; tolerance ± 10 % | | | |
| Pick-up voltage | ≥ 0,8 x U _N | | | |
| Release voltage | ≥ 0,1 x U _N | | | |
| Nominal power | 2,2 VA (AC)/1,3 W (DC) | | | |

| Coil table | | | | | |
|-------------------|-----|-----|-----|------|----|
| VAC | Ω | mA | VDC | Ω | mA |
| 24 | 67 | 92 | 24 | 443 | 54 |
| 48 | 296 | 46 | 48 | 1K8 | 27 |
| 115 | 1K7 | 19 | 110 | 9K2 | 12 |
| 230 | 7K1 | 9,5 | 220 | 36K1 | 6 |

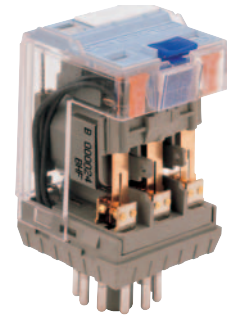
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|--------------------------------|--|-----------------|
| Insulation | | Volt rms, 1 min |
| Contact open | | 1000 V |
| Contact/contact | | 2,5 kV |
| Contact/coil | | 2,5 kV |
| Insulation resistance at 500 V | | ≥ 1 GΩ |
| Insulation, EN 61810-5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

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| Specifications | |
| 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 | 90 g |

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|---|--------------------------|--------------------------|
| Standard types | | |
| AC 50 Hz/60 Hz: 24, 48, 115, (120), 230, (240) | C3-T31/AC ... V | C3-T32/AC ... V |
| LED | C3-T31X/AC ... V | C3-T32X/AC ... V |
| RC Suppressor | C3-T31R/AC ... V | C3-T32R/AC ... V |
| DC 24, 48, 110, 220 | C3-T31/DC ... V | C3-T32/DC ... V |
| LED | C3-T31X/DC ... V | C3-T32X/DC ... V |
| Free wheeling diode | C3-T31DX/DC ... V | C3-T32DX/DC ... V |
| Polarity and free wheeling diode | C3-T31FX/DC ... V | C3-T32FX/DC ... V |
| AC/DC bridge rectifier 24 V, 48 V, 60 V | C3-T31BX/UC ... V | C3-T32BX/UC ... V |

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

| | |
|--|--------------------------------------|
| Accessories | |
| Socket: | S3-B, S3-S, S3-L, S3-P, S3-P0 |
| Operational accessories (blanking plug): | SO-NP, SO-OP |



Connection diagram

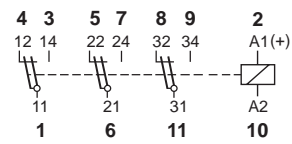


Fig. 1 AC voltage endurance

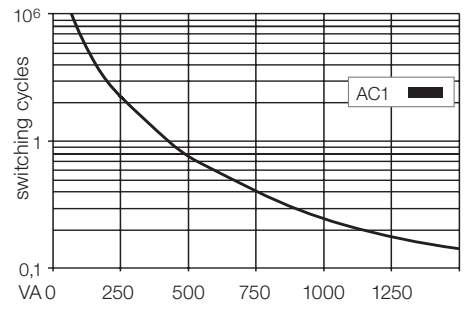
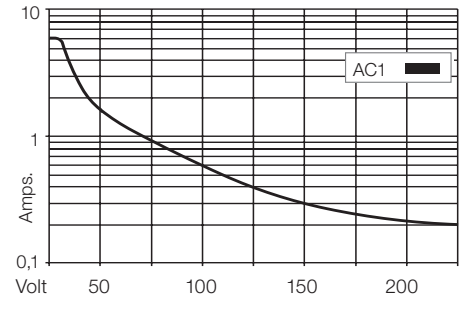
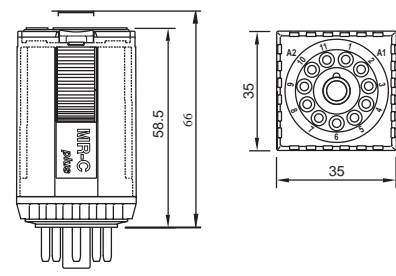


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities

IEC 61810; EN 60947



Kühn Controls AG

Notes:

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