

IRC series
C12-G2x
8-pin, Interface relays, 2-poles, plug-in faston

| | | | |
|---|---|------------------------|--|
| Type | C12-G2x/ ... V Standard relay 2 open contacts | | |
| Maximum contact load | 5 A/250 V AC1 | 0,8 A/110 V DC1 | |
| | 5 A/30 V DC1 | 0,4 A/220 V DC1 | |
| Recommended minimum contact load | 1 mA/10 V (with 10 μ Au) 10 mA/10 V (standard contact) | | |

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|--------------------------------|------------|--------|---------------------|
| Contacts | | | |
| Material | Standard | Code 1 | AgNi + 0,2 μ Au |
| | Optional | Code 2 | AgNi + 10 μ Au |
| Rated current | 5 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 \pm 10 % | | |
| Pick-up voltage | $\geq 0,8 \times U_N$ | | |
| Release voltage | $\geq 0,1 \times U_N$ | | |
| Nominal power | 1,1 VA (AC)/0,7 W (DC) | | |

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|-------------------|------------|----------------------------|-----------|------------|----------------------------|-----------|
| Coil table | | | | | | |
| | VAC | Ω | mA | VDC | Ω | mA |
| | 24 | 290 | 45 | 12 | 224 | 53 |
| | 48 | 1200 | 23 | 24 | 742 | 32 |
| | 115 | 7.300 | 9,5 | 48 | 3.500 | 13,7 |
| | 230 | 28.800 | 4,7 | 110 | 19.900 | 5,5 |

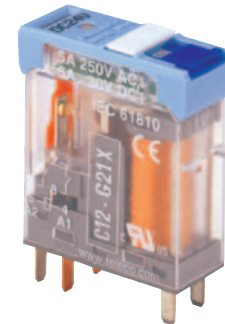
| | |
|--------------------------------|---------------------|
| Insulation | Volt rms, 1 min |
| Contact open | 2000 V |
| Contact/contact | 3000 V |
| Contact/coil | 5 kV |
| Insulation resistance at 500 V | ≥ 3 G Ω |
| Insulation, IEC 61810-5 | 4 kV/3 |

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|---------------------------------------|---|
| Specifications | |
| Ambient temperature operation/storage | -40 (no ice)...60 $^{\circ}$ C /-40 ... 80 $^{\circ}$ C |
| Pick-up time/bounce time | 10 ms/ \leq 1 ms |
| Release time/bounce time | 8 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 | 21 g |

| | | |
|---|---------------------------|---------------------------|
| Standard types | | |
| AC 50 Hz/60 Hz: 24, 48, 115, (120), 230, (240) | C12-G21/AC ... V | C12-G22/AC ... V |
| LED | C12-G21X/AC ... V | C12-G22X/AC ... V |
| RC suppressor | C12-G21R/AC ... V | C12-G22R/AC ... V |
| DC 12, 24, 48, 110 | C12-G21/DC ... V | C12-G22/DC ... V |
| LED | C12G21X/DC ... V | C12-G22X/DC ... V |
| Polarity and free wheeling diode | C12-G21FX/DC ... V | C12-G22FX/DC ... V |
| AC/DC bridge rectifier 24 V, 48 V, 60 V | C12-G21BX/UC ... V | C12-G22BX/UC ... V |

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

| | |
|--------------------|-------------------|
| Accessories | |
| Socket: | S12, S12-P |



Connection diagram

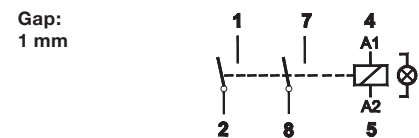


Fig. 1 AC voltage endurance

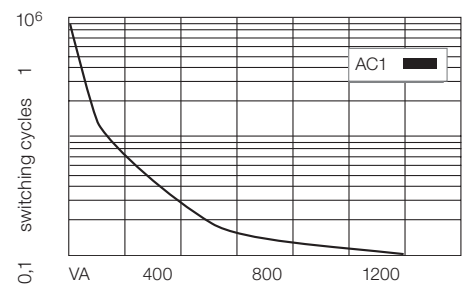
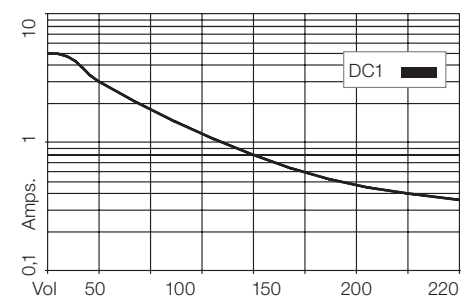
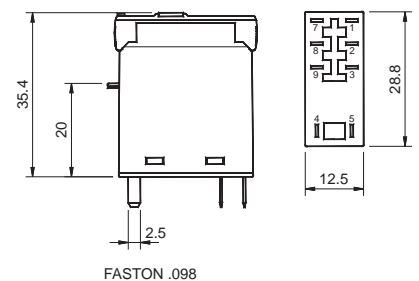


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities



IEC 61810; EN 60947



Kühn Controls AG

Notes:

You want more information about this product, please call us: tel: +49 (0)7082-940000 or send us a fax: +49 (0)7082-940001, or email: sales@kuehn-controls.de or visit our Website: www.kuehn-controls.de