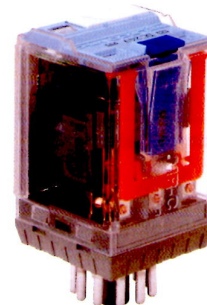


**C3-A3x**

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



|                                         |                                                                 |                 |     |  |
|-----------------------------------------|-----------------------------------------------------------------|-----------------|-----|--|
| <b>Type</b>                             | <b>C3-A3x/ ... V</b><br>Standard relays, 3 change-over contacts |                 |     |  |
| <b>Maximum contact load</b>             | 10 A/250 V ACI                                                  | 0,5 A/110 V DCI | DC1 |  |
|                                         | 10 A/30 V DCI                                                   | 0,2 A/220 V DCI | DC1 |  |
| <b>Recommended minimum contact load</b> | 10 mA/10 V                                                      | Code 0, 9       |     |  |
|                                         | 5 mA/5 V                                                        | Code 8          |     |  |

**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   | 2,2 VA (AC)/1,3 W (DC)          |

**Coil table**

| VAC | $\Omega$ | mA  | VDC | mA   |
|-----|----------|-----|-----|------|
| 24  | 67       | 92  | 24  | 443  |
| 48  | 296      | 46  | 48  | 1K8  |
| 115 | 1K7      | 19  | 110 | 9K2  |
| 230 | 7K1      | 9,5 | 220 | 36K1 |

**Insulation**

|                                |                          |
|--------------------------------|--------------------------|
| Coil                           | 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 61810-1        | 2,5 kV/3                 |

**Specifications**

|                                       |                                      |
|---------------------------------------|--------------------------------------|
| Ambient temperature operation/storage | -40 (no ice)...60 °C / -40 ... 80 °C |
| Pick-up time/bounce time              | 16 ms/ $\leq 3$ ms                   |
| Release time/bounce time              | 8 ms/ $\leq 1$ ms                    |
| Mechanical life ops                   | AC: 10 Mill./DC: 20 Mill.            |
| DC voltage endurance at rated load    | $\geq 100000$ switching cycles       |
| Switching frequency at rated load     | $\leq 1200$ ops/h                    |
| Protection class                      | IP40                                 |
| Weight                                | 90 g                                 |

**Standard types**

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

LED

RC Suppressor

VDC 24, 48, 110, 220

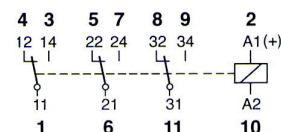
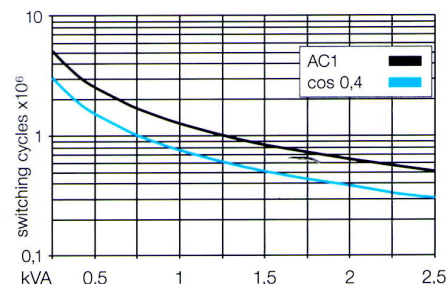
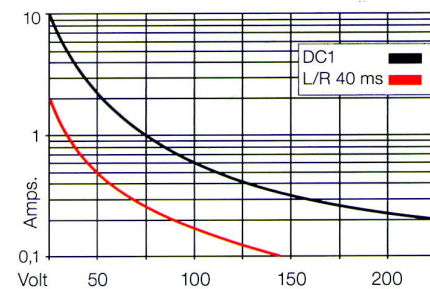
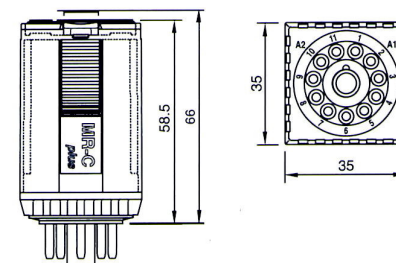
LED

Free wheeling diode

Polarity and free wheeling diode

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

|                   |                   |                   |
|-------------------|-------------------|-------------------|
| C3-A30/AC ... V   | C3-A38/AC ... V   | C3-A39/AC ... V   |
| C3-A30X/AC ... V  | C3-A38X/AC ... V  | C3-A39X/AC ... V  |
| C3-A30R/AC ... V  | C3-A38R/AC ... V  | C3-A39R/AC ... V  |
| C3-A30/DC ... V   | C3-A38/DC ... V   | C3-A39/DC ... V   |
| C3-A30X/DC ... V  | C3-A38X/DC ... V  | C3-A39X/DC ... V  |
| C3-A30DX/DC ... V | C3-A38DX/DC ... V | C3-A39DX/DC ... V |
| C3-A30FX/DC ... V | C3-A38FX/DC ... V | C3-A39FX/DC ... V |
| C3-A30BX/UC ... V | C3-A38BX/UC ... V | C3-A39BX/UC ... V |

**Connection diagram****Fig. 1 AC voltage endurance****Fig. 2 DC load limit curve****Dimensions [mm]****Technical approvals, conformities**

IEC 61810; EN 60947

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

**Accessories**

Socket:

Optional accessories (blanking plug):

S3-B, S3-S, S3-L, S3-P, S3-P0, S3-MP, S3-MS  
SO-NP, SO-OP