

## C10-A1x

### 5-pin, Interface relays, 1-pole, plug-in, faston

|                                  |                                                         |                                                                                   |  |  |
|----------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|--|--|
| Type                             | C10-A1x/ ... V<br>Standard relay, 1 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                                                                   |  |  |
|                                  | 13A /250V AC1                                           |  |  |  |
| Recommended minimum contact load | 1 mA/10 V                                               | (with 10 µ Au)                                                                    |  |  |
|                                  | 10 mA/10 V                                              | (standard contact)                                                                |  |  |

#### Contacts

|                                |            |        |               |
|--------------------------------|------------|--------|---------------|
| Material                       | Standard   | Code 0 | AgNi          |
|                                | Optional   | Code 8 | AgNi+ 10 µ Au |
|                                | Optional   | Code 5 | Ag Sn O       |
| 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 ± 10 % |
| Pick-up voltage | ≥ 0,8 x U <sub>N</sub>      |
| Release voltage | ≥ 0,1 x U <sub>N</sub>      |
| Nominal power   | 1,1 VA (AC)/0,7 W (DC)      |

#### 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                   | 1000 V          |
| Contact/coil                   | 5 kV            |
| Insulation resistance at 500 V | ≥ 1 GΩ          |
| Insulation, IEC 61810-5        | 4 kV/3          |

#### Specifications

|                                       |                                            |
|---------------------------------------|--------------------------------------------|
| Ambient temperature operation/storage | -40 (no ice)...60 °C / -40 ... 80 °C       |
| Pick-up time/bounce time              | 10 ms/1 ms                                 |
| Release time/bounce time              | 5 ms/3 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)    | C10-A10/AC ... V  | C10-A18/AC ... V   | C10-A15/AC ... V   |
| LED                                               | C10-A10X/AC ... V | C10-A18X/AC ... V  | C10-A15X/AC ... V  |
| RC suppresor                                      | C10-A10R/AC...V   | C10-A18R/AC...V    | C10-A15R/AC...V    |
|                                                   |                   |                    |                    |
| DC 12, 24, 48, 110                                | C10-A10/DC ... V  | C10-A18/DC ... V   | C10-A15/DC ... V   |
| LED                                               | C10-A10X/DC ... V | C10-A18X/DC ... V  | C10-A15X/DC ... V  |
| Free wheeling diode                               |                   |                    |                    |
| Polarity and free wheeling diode                  | C10-A10FX/DC...V  | C10-A18FX/DC...V   | C10-A15FX/DC ... V |
|                                                   |                   |                    |                    |
| AC/DC bridge rectifier 24 V, 48 V                 | C10-A10BX/UC ..V  | C10-A18BX/UC ... V | C10-A15BX/UC ... V |
| "..." Enter the voltage for full type designation |                   |                    |                    |

#### Accessories

|         |                   |
|---------|-------------------|
| Socket: | S10, S10-M, S10-K |
|---------|-------------------|



#### Connection diagram

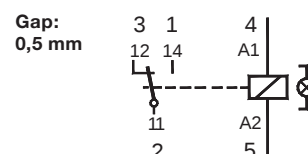


Fig. 1 AC voltage endurance

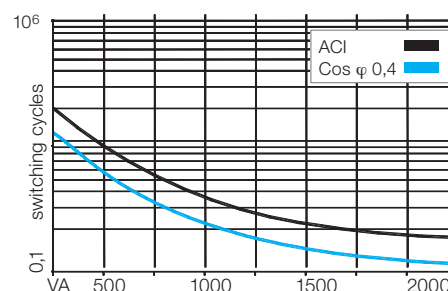
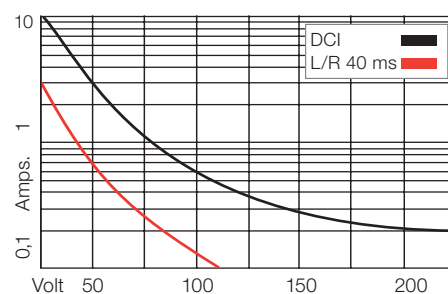
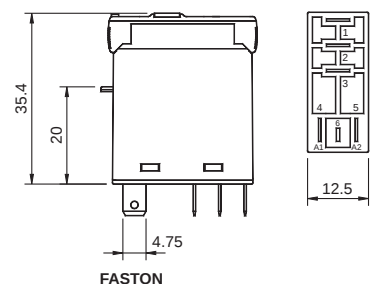


Fig. 2 DC load limit curve



#### Dimensions [mm]



#### Technical approvals, conformities



IEC 61810; EN 60947