

## D-BX5

### Very high breaking capacity 10 A, 2 N/O + 2 N/C (10 A, DC 1)

Heavy duty applications, switching of AC & DC voltages, resistive and inductive loads.

- Plug-in
- 2 N/O + 2 N/C contacts
- DC (with back EMF diode) and AC coil
- Flash barriers
- LED indicator
- Cadmium free contacts
- Magnetic arc blow-out (option B, standard)
- Contact gap 2 mm (option X5, standard)

#### Standards

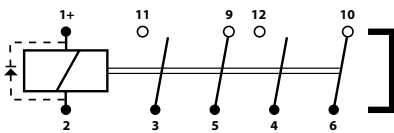
EN 60255  
EN 60947  
EN 60947-5-1  
IEC 61810  
CE

#### Pin arrangement

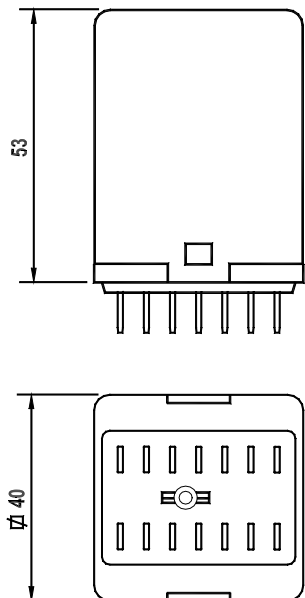
Smitt-style



#### Connection diagram



#### Dimensions



#### Contact specifications

|                          |   |
|--------------------------|---|
| Contact material         | Ag  |
| Number & configuration   | 2 N/O + 2 N/C contacts                      |
| Rated continuous current | 10 A  |
| Breaking capacity AC1    | 10 A / 230 V                                |
| Breaking capacity DC1    | 10 A / 110 V                                |
| Max. make current        | 16 A  |
| Max. switching voltage   | 350 VDC                                     |
| Min. switched voltage    | 12 V  |
| Min. switched current    | 10 mA (Au, 1μV, 1μA)                        |
| Peak inrush current      | 200 A (withstand ≥ 10 x 200 A @ 10 ms, 1 m) |

#### Coil specifications

|                                     |   |
|-------------------------------------|---|
| Nominal voltage (U <sub>n</sub> DC) | 12, 24, 48, 72, 110, 125, 220, 250 VDC      |
| Nominal voltage (U <sub>n</sub> AC) | 12, 24, 48, 72, 100, 120, 230, 350, 380 VAC |
| Power consumption (AC / DC)         | 2 VA / 2 W                                  |
| Operating range                     | 0.8 ... 1.1 U <sub>n</sub>                  |

#### Technical data

|                                   |   |
|-----------------------------------|---|
| Mechanical life cycles (AC/DC)    | 10 x 10 <sup>6</sup> / 30 x 10 <sup>6</sup> |
| Dielectric strength, coil-contact | 2500 VAC                                    |
| Dielectric strength contacts      | 4000 VAC                                    |
| Isolation class                   | C 380                                       |
| Pull-in time DC/AC                | ≤ 20 / 10 ms                                |
| Release time DC/AC                | 18 / 5 ms                                   |
| Ambient temperature               | -25 °C...+55 °C                             |
| Humidity                          | 95% / 40 °C                                 |
| Salt mist                         | 5% NaCl, 35 °C for 4 days                   |
| Weight                            | 140 g                                       |
| Dimensions                        | 40 x 40 x 53 mm                             |
| Protection category               | IP40  |

#### Options Remarks

See page 14  
Standard AC coil is 50 Hz. 60 Hz coil on request  
Other voltages on request

#### Most common type

|               |           |
|---------------|-----------|
| D-BX5 24 VDC  | 330215960 |
| D-BX5 48 VDC  | -         |
| D-BX5 110 VDC | -         |
| D-BX5 220 VDC | -         |
| D-BX5 250 VDC | -         |

For more types check your local sales office