

## D-BV

## Wide coil range high DC breaking capacity 10 A, 4 C/O



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

- Plug in
- 4 C/O contacts
- DC (with back EMF diode) and AC coil
- Flash barriers
- LED indicator (option L standard)
- Cadmium free contacts
- 'Smitt-style' pinning with integrated retaining silver plated clip
- Magnetic arc blow-out (option B, standard)
- Wider range (option V, standard)

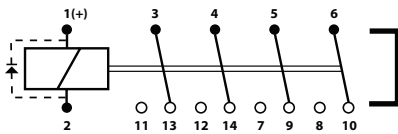
### Standards

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

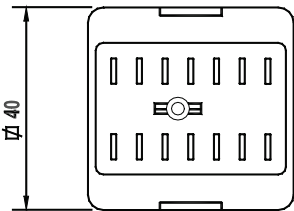
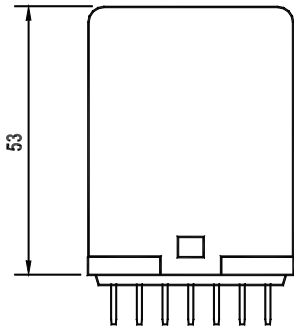
### Pin arrangement Smitt-style



### Connection diagram



### Dimensions



### Contact specifications

Contact material	Ag
Number & configuration	4 C/O
Rated continuous current	10 A
Breaking capacity AC1	10 A / 230 V
Breaking capacity DC1	7 A / 110 V
Max. make current	16 A
Max. switching voltage	350 VDC / 440 VAC
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 ( $U_n$ DC)	12, 24, 48, 72, 110, 125, 220, 250 VDC
Nominal voltage ( $U_n$ AC)	12, 24, 48, 72, 100, 120, 230, 350, 380 VAC
Power consumption (AC / DC)	2.5 VA / 2.2 W
Operating range	0.7...1.25 $U_n$

### Technical data

Mechanical life cycles (AC/DC)	10 x 10 <sup>6</sup> / 50 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 / 5 ms
Release time DC/AC	18 / 5 ms
Ambient temperature	-25 °C...+70 °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

See page 14

### Remarks

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

### Most common types

D-BV	24 VDC	330219800
D-BV	48 VDC	330219799
D-BV	110 VDC	330219798
D-BV	220 VDC	330219797

See ordering scheme page 84

For more types check your local sales office

See page 65 for sockets & accessories