

TDB4



Electronic, time delay-on

10 A, 4 C/O

Delay-on time relay for demanding applications, switching of AC & DC voltages, resistive and inductive loads.

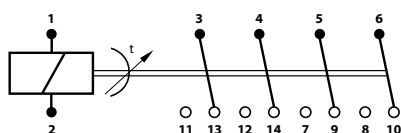
- Plug-in
- 4 C/O contacts
- DC and AC input
- Double LED indicator (presence of supply and energizing of contacts)
- Cadmium free contacts
- 'Smitt-style' pinning with integrated retaining silver plated clip
- Adjustable with a lockable knob (optional with fixed time)

Standards

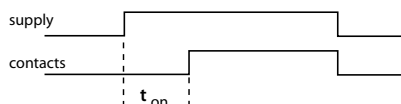
EN 60255
EN 60947
EN 60947-5-1
IEC 61810
CE

Pin arrangement
Smitt-style

Connection diagram



Time diagram



Available time ranges

0.1 - 1 s 0.3 - 3 s 0.6 - 6 s 1 - 10 s 3 - 30 s 6 - 60 s
0.3 - 3 min 0.6 - 6 min 1 - 10 min 3 - 30 min 6 - 60 min

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 | 1 A / 110 V |
| Max. make current | 16 A |
| Max. switching voltage AC/DC | 110 V, 1 A / 440 V |
| Min. switched voltage | 12 V |
| Min. switched current | 10 mA |
| Insulation between contacts | 1 kV, 50 Hz, 1 m |

Coil specifications

| | |
|--|---|
| Nominal voltage (U _n AC/DC) | 24, 48, 60, 110, 125, 220, 230, 250 VAC/DC |
| Power consumption | 0.5 - 2.2 W |
| Operating range | 0.8 ... 1.2 U _n (0.7...1.25 U _n option V) |

Technical data

| | |
|-----------------------------------|---|
| Mechanical life cycles (AC/DC) | 10 x 10 ⁶ / 50 x 10 ⁶ |
| Dielectric strength, coil-contact | 2000 VAC |
| Isolation class | C 380 |
| Pull-in time | Adjustable, fixed possible |
| Release time | < 40 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 89 mm (incl. knob) |
| Protection category | IP40 |

Options
Remarks

B, E, K, Q see page 14
Standard coil is 50 Hz, 60 Hz coil on request

Standard types

| | |
|-------------|------------|
| TDB4-024-XX | 24 VAC/DC |
| TDB4-048-XX | 48 VAC/DC |
| TDB4-060-XX | 60 VAC/DC |
| TDB4-110-XX | 110 VAC/DC |
| TDB4-125-XX | 125 VAC/DC |
| TDB4-220-XX | 220 VAC/DC |

xx= time range

For more types check your local sales office