

**This relay is obsolete
from January 1, 2023**

TDB2

Electronic, time delay on 6 A, 2 C/O



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

- Plug-in
- 2 C/O contacts
- DC and AC input
- Flash barriers
- 2x 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 fixed time, no knob)
- Forced contacts, weld no transfer

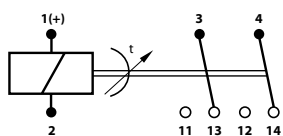
Standards

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

Contact specifications

Contact material	Ag + 0.2 µm Au
Number & configuration	2 C/O
Rated continuous current	6 A
Breaking capacity AC1	2.6 A / 250 V
Breaking capacity DC1	300 mA / 300 V
Max. make current	15 A
Max. switching voltage AC/DC	250 V, 2.6 A / 300 V, 300 mA
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 W
Operating range	0.8 ... 1.2 U _n (0.7...1.25 U _n option V)

Technical data

Mechanical life cycles	30 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	110 g
Dimensions	40 x 40 x 53 mm (66 mm incl. knob)
Protection category	IP40

Options Remarks

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

Standard types

TDB2-024-XX	24 VAC/DC
TDB2-048-XX	48 VAC/DC
TDB2-060-XX	60 VAC/DC
TDB2-110-XX	110 VAC/DC
TDB2-125-XX	125 VAC/DC
TDB2-220-XX	220 VAC/DC
TDB2-230-XX	230 VAC/DC

xx= time range

For more types check your local sales office