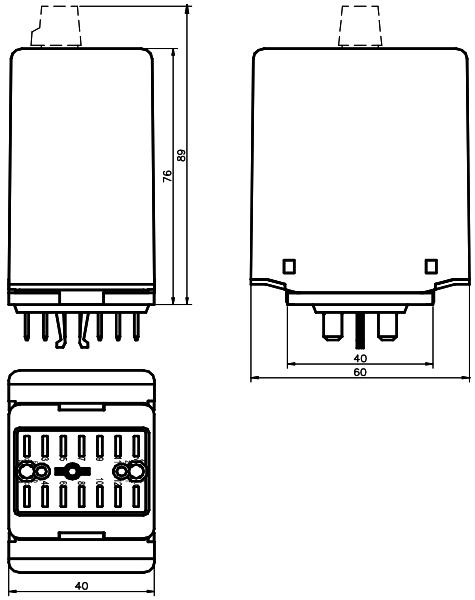
TIME DELAY RELAY

Product **TDE4 series**
4 pole delay-off timer relay

Country of origin **The Netherlands**

Dimensions



Company

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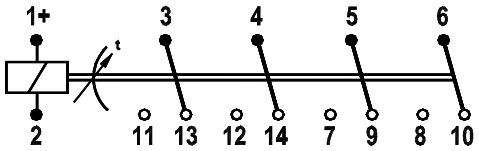
Connection Diagram



Description

Electronic plug-in timer-relay without auxiliary supply with four change-over contacts.
Equiped with a LED that indicates the presence of energizing voltage.
The energizing voltage must have a step function for correct working.
The delay time is adjustable with a lockable knob.
The relay can also be supplied with a fixed time delay, (no knob).
The TDE4-relays are suitable for standard D relay bases.

Coil Data AC/DC

Type	U_{nom} (V)	U_{min} (V)	U_{max} (V)
TDE4-024-xx	24	19.2	28.8
TDE4-048-xx	48	38.4	57.6
TDE4-060-xx	60	48	72
TDE4-110-xx	110	88	132
TDE4-125-xx	125	100	150
TDE4-220-xx	220	176	264

Timing diagram

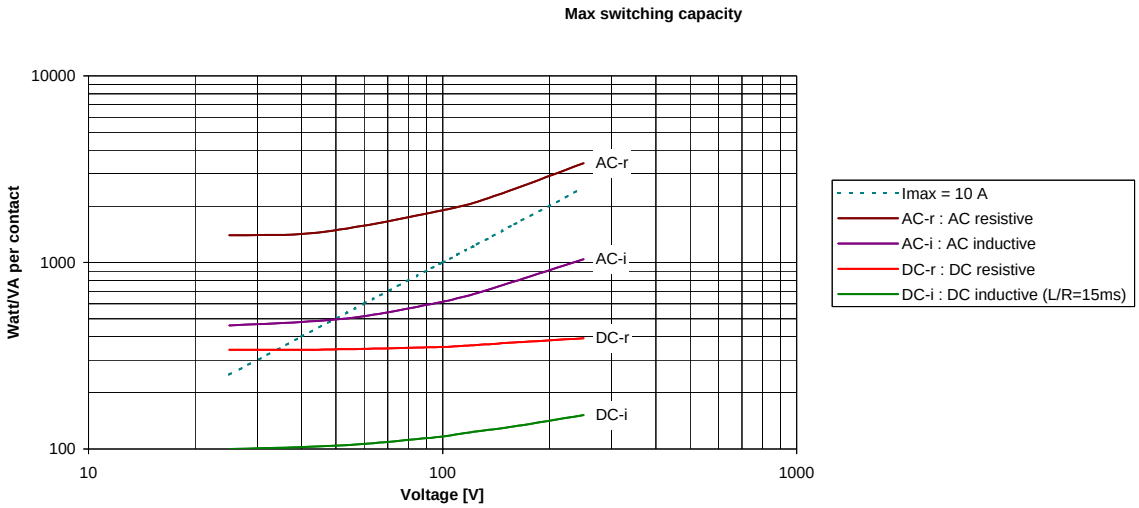
Powerconsumption	**nominal**	**< 1 W**
	switching-on (t < 80 ms)	**< 9 W**

Release time	**Depending on drop-out time setting (xx)**						
Adjustable time ranges	**0.1-1 s**	**0.3 - 3 s**	**0.6 - 6 s**	**1 - 10 s**	**3 - 30 s**	**6 - 60 s**	**10 - 100s**

Adjustment accuracy	**< 10 %**
Repeat accuracy	**± 2 %**
Time variation vs voltage variation	**± 0.1 %/ % U_{nom}**
vs temperature variation	**± 0.2 % / K**
Recovery time @ U_{nom}	**< 0.3 s**
@ U_{min}	**< 1.5 s**
Pull-in time	**< 40 ms**

Contact data

Max. make current	16 A (200A, 10ms)	Material	Ag
Nom. current	10 A (AC1 ; IEC 60947)	Contactgap	0.7 mm
Max. switching voltage	250V DC 440V AC	Insulation between	2.5 kV, 50 Hz
Min. switching voltage	12V, 10 mA	open contacts	1 min
Max. contact resistance	15 mΩ (initial)	Contactforce	> 200 mN
Max. breaking capacity			
DC	110 V, 10A (L/R ≤ 5ms)		
AC	230 V, 10A (cos φ ≥ 0.7)		



General Data

Dielectric strength		
Pole-Pole	IEC 60255-5	4 kV, 50 Hz, 1 min
Cont-Coil		2 kV, 50 Hz, 1 min
Insulation class	IEC 60255-5	serie C 380 V 50 Hz/ 450 VDC
Pulse withstanding	IEC 60255-5	5 kV (1.2/50 µs)
EMC according to		EMC directive
Vibration	IEC 60068-2-6	5 g at 50 Hz 2 g at 10 - 150 Hz
Shock	IEC 60068-2-27	5 g at 50 Hz
Mechanical life		$30*10^6$ ops
Max. switching frequency		1200 ops/h
Weight		270 g
Temperature	$T_{amb,max}$	+ 70 °C 1 cm detached
	$T_{amb,min}$	- 25 °C
Humidity		90%, condensation not permitted
Protection		IP 40
Materials		Makrolon Polyester

Options

C	- 40 °C Max contact current 8A
E	gold plated contacts
K	special dust protection (only for fixed time setting)
B	magnetic arc blow-out

Australian Distributor

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