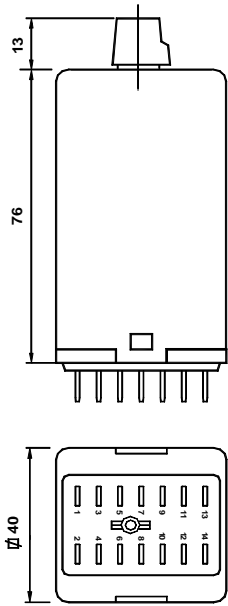

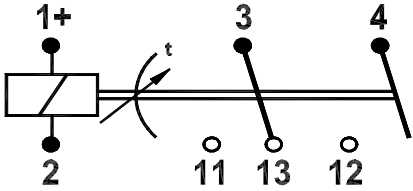



## TIME DELAY RELAY

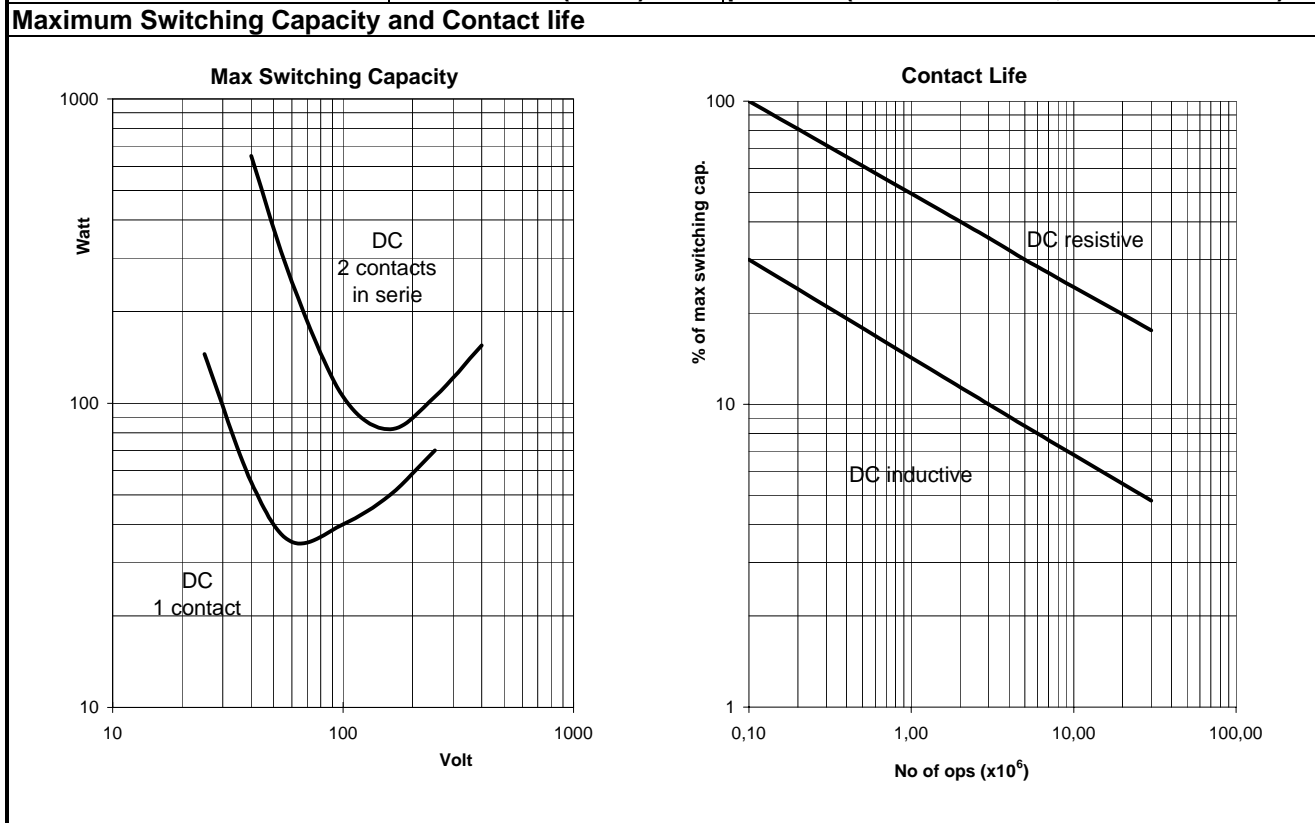
<b>Product</b>	<b>TDE-U200 series</b> 2-pole delay-off timer relay
<b>Dimensions</b>	<b>Country of Origin:</b> The Netherlands
<b>Company</b>	
	
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<b>Connection Diagram</b>	
	

### Description

Electronic plug-in delay-off railway timer-relay with one change-over contact and one NO contact. Equipped with one LED that indicates energization .  
 The delay-off time is adjustable with a lockable knob. Fixed times are possible. (No knob)  
 The TDE-U200 does not need auxilliary supply.  
 The TDE-U200 relays are pluggable into standard D-U relay bases.

Coil Data (DC)				Timing diagram		
Type	$U_{nom}$ (V)	$U_{min}$ (V)	$U_{max}$ (V)			
TDE-U201	24	16.8	30			
TDE-U202	48	33.6	60			
TDE-U203	72	50.4	90			
TDE-U204	110	77.0	138			
TDE-U205	96	67.2	120			
TDE-U207	36	25.2	45			
<b>Nom. powerconsumption</b>						$< 1.5 \text{ W at } U_{nom}$
<b>Release time</b>		depending on set value of the drop-out time				
<b>Standard time ranges, adjustable</b>		0.1 - 1 s	0.3 - 3s	1 - 10 s	3 - 30 s	10 - 100 s
<b>Adjustment accuracy</b>				$< 10\%$		
<b>Repeat accuracy</b>				$\pm 2 \%$		
<b>Time variation</b>		vs voltage variation		$\pm 0.1 \text{ % / } \% U_{nom}$		
		vs temperature variation		$\pm 0.2 \text{ % / K}$		
<b>Recovery time</b>				$< 0.3 \text{ s}$		
<b>Pull-in time</b>				$< 40 \text{ ms}$		
<b>Max permissible ripple</b>				$24 \text{ % } U_{nom}$		
<b>Min permissible residual voltage</b>				$5 \text{ % } U_{nom}$		

Contact data			
Max. Make Current	15 A	Material	Ag + 0.2 µm Au
Nom. Current	6 A (AC1 ; IEC 60947)	Contactgap	0.3 mm
Max. Breaking Capacity	DC 300 V, 300 mA	Insulation between open contacts	1 kV, 50 Hz, 1 min
	AC 250 V, 2.6 A		
Min. Contact continuity	4V/2mA/0.1W-VA	Note: contacts cannot have a different position. (Forced contacts, Weld no transfer)	
Max. Contact Resistance	15 m Ω (initial)		



General Data		
Dielectric strength	Pole-Pole	EN 50155 2 kV, 50 Hz, 1 min
	Cont-Coil	IEC 60077 2 kV, 50 Hz, 1 min
Pulse Withstanding	IEC 60255-5	5 kV ( 1.2/50 µs )
Vibration	IEC 60077 IEC 60571 EN 50155	5 g at 50 Hz 2 g at 10 - 150 Hz
Shock	IEC 60077	5 g at 50 Hz
Mechanical life		30*10 <sup>6</sup> ops
Max. Switching Frequency		1200 ops/h
Weight		140 g
Temperature	T <sub>amb,max</sub>	+70 °C
	T <sub>amb,min</sub>	-25 °C
Humidity		80%, condensation not permitted
Protection		IP 40
Materials		Makrolon Melamine Polyester
Options		
B	Magnetic arc blowout	
E	Gold plated contacts	
K	Special dust protection (only for fixed time setting)	
U	Double make contact	

**Australian Distributor**



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