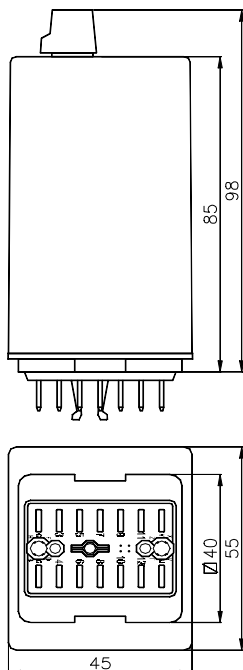


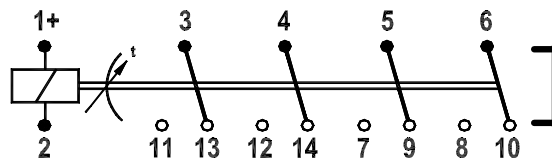
## TIME DELAY RELAY

<b>Product</b> TDE4-U200 series 4 pole delay-off timer relay	<b>Country of origin</b> The Netherlands
<b>Dimensions</b>	<b>Company</b>



P.O. Box 7023  
3502 KA Utrecht  
The Netherlands  
T +31 (0)30-288 13 11  
F +31 (0)30-289 88 16  
E sales@nieaf-smitt.nl  
I www.nieaf-smitt.nl

### Connection Diagram



### Description

Electronic plug-in timer-relay without auxiliary supply with four change-over contacts. Equipped with a LED that indicates the presence of energizing voltage. 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-U200 relay bases.

Coil Data				DC				Timing diagram			
Type	$U_{nom}$ (V)	$U_{min}$ (V)	$U_{max}$ (V)								
TDE4-U201-xx	24	16.8	30								
TDE4-U202-xx	48	33.6	60								
TDE4-U203-xx	72	50.4	90								
TDE4-U204-xx	110	77.0	138								
TDE4-U205-xx	96	67.2	120								
TDE4-U207-xx	36	25.2	45								
Nom. powerconsumption				< 1.5 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		< 0.3 s									
Pull-in time		< 40 ms									

Contact data			
Max. make current	16 A ( 200A, 10ms )	Material	Ag
Nom. current	10 A (AC1 ; IEC 947)	Contactgap	0.8 mm
Max. switching voltage	250V DC    440V AC	Insulation between open contacts	2.5 kV, 50 Hz 1 min
Min. switching voltage	12V, 10 mA		
Max. contact resistance	15 mW            (initial)	Contactforce	> 200 mN
Max. breaking capacity	DC 110 V, 10A ( L/R <=15ms ) AC 230 V, 10A (cos f >=0.7 )		
Switching capacity at 1.200 operations per hour:			
Number of operations			
Load current	10mA	1A	8A
24VDC, resistive load	>30.000.000	>10.000.000	>5.000.000
24VDC, L/R=40ms		>5.000.000	>1.000.000
110VDC, resistive load	>15.000.000	>2.500.000	>800.000
110VDC, L/R=40ms		>900.000	>500.000
General Data			
Dielectric strength	Pole-Pole IEC 255-5 Cont-Coil	4 kV, 50 Hz, 1 min	
		2 kV, 50 Hz, 1 min	
Insulation class	IEC 255-5	serie C 380 V 50 Hz/ 450 VDC	
Pulse withstanding	IEC 255-5	5 kV ( 1.2/50 µs )	
EMC according to		EMC directive	
Vibration	IEC 68-2-6	5 g at 50 Hz	
		2 g at 10 - 150 Hz	
Shock	IEC 68-2-27	5 g at 50 Hz	
Mechanical life		30*10 <sup>6</sup> ops	
Max. switching frequency		1200 ops/h	
Weight		270 g	
Temperature	T <sub>amb,max</sub>	+ 70 °C	
	T <sub>amb,min</sub>	- 25 °C	
Humidity		90%, condensation not permitted	
Protection		IP 50	
Materials		Makrolon Polyester	
Options			
C		- 40 °C	
E		gold plated contacts	
K		special dust protection (only for fixed time setting)	
N		no magnetic arc blow-out	