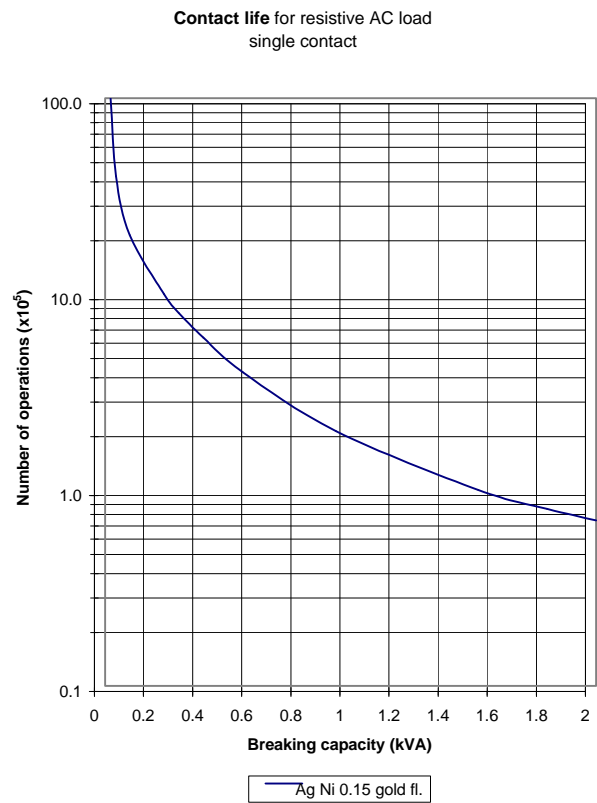
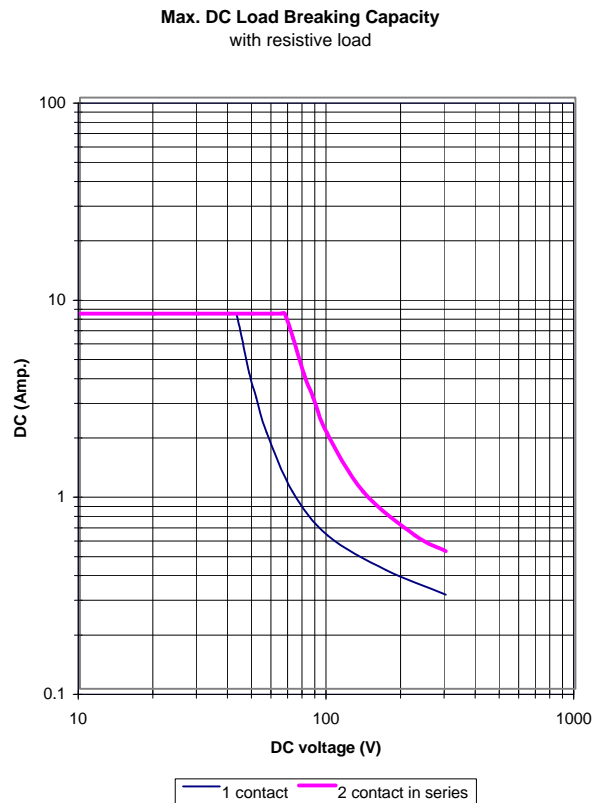


Datasheet				
<b>Product</b>		<b>TDDB-U200</b> Instantaneous/delay on relay		<b>Country of Origin:</b> The Netherlands
<b>Dimensions</b>			<b>Company</b>	
			<p>P.O. Box 7023 3502 KA Utrecht The Netherlands T +31 (0)30-288 13 11 F +31 (0)30-289 88 16 E sales@nieaf-smitt.nl I www.nieaf-smitt.nl</p>	
<b>Connection Diagram</b>				
Description				
<p>Electronic plug-in railway timer relay with two instantaneous change over contacts and two time delayed change over contacts. Equipped with two leds, that indicate the presence of supply voltage and the energizing of the time delayed contacts. The delay time is adjustable with a lockable knob The relay can also be supplied with a fixed time delay. (no knob) The TDDB-U relays are suitable for standard D-U200 bases</p>				
Coil data		DC	AC	Timing diagram
Type		$U_{nom}$ (V)	$U_{nom}$ (V)	
TDDB-U201 x		24		
TDDB-U202 x		48		
TDDB-U203 x		72		
TDDB-U204 x		110		
TDDB-U205 x		96		
TDDB-U207 x		36		
TDDB-U306 x			240 ( 50Hz)	
x = delay on time				
Powerconsumption	Nominal:		DC 1.7W AC 1.6VA	
	After delayed contacts switched on:		DC 3.4W AC 3.1VA	
Pull-in time	Instantaneous contacts:		< 15 ms	
	Delayed contacts:		Depending on delay time setting	
Adjustable 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
Adjustment accuracy			< 10%	
Repeat accuracy			± 0.5%	
Time variation	vs voltage variation		± 0.05 %/ % $U_{nom}$	
	vs temperature variation		± 0.02 % / K	
Supply voltage variation	-30 %, +25 %		AC ± 20%	
Recovery time			< 0.2 s	
Release time			< 15 ms	

Contact data			
Max. Make Current	14 A	Material	AgNi0.15 Au fl.
Max. Cont. Current	8 A		
Max. Switching Voltage	250 V AC	Insulation between open contacts	1 kV; 50 Hz; 1 min
		pole to pole	2.5 kV; 50 Hz; 1 min
Min. Switching Voltage	12 V, 100 mA		

### Maximum Breaking Capacity and Contact life



### General Data

Dielectric strength	Cont-Coil	IEC 255-5	2.5 kV, 1 min, 50 Hz
Mechanical life			20*10 <sup>6</sup> ops
Weight			125 gram
Temperature		T <sub>amb,max</sub>	+ 70 °C
		T <sub>amb,min</sub>	-25 °C
Humidity			80%, condensation not permitted
Protection			IP 50
Materials			Polycarbonat/Polyester