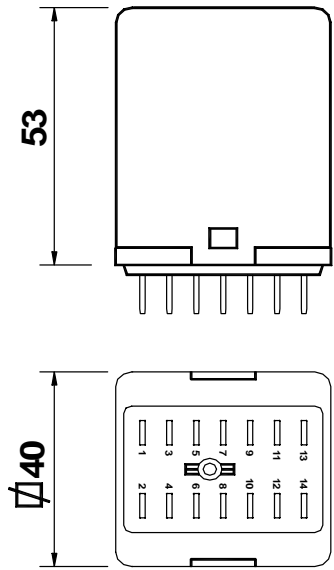


# INSTANTANEOUS RELAY

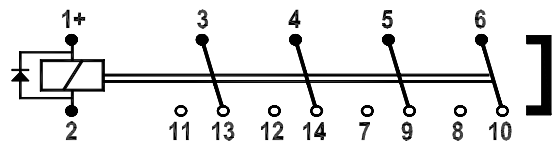
<b>Product</b> D-U200 series 4 pole relay	<b>Country of Origin:</b> The Netherlands
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<b>Dimensions</b>	<b>Company</b>
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P.O. Box 7023  
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### Connection diagram



### Description

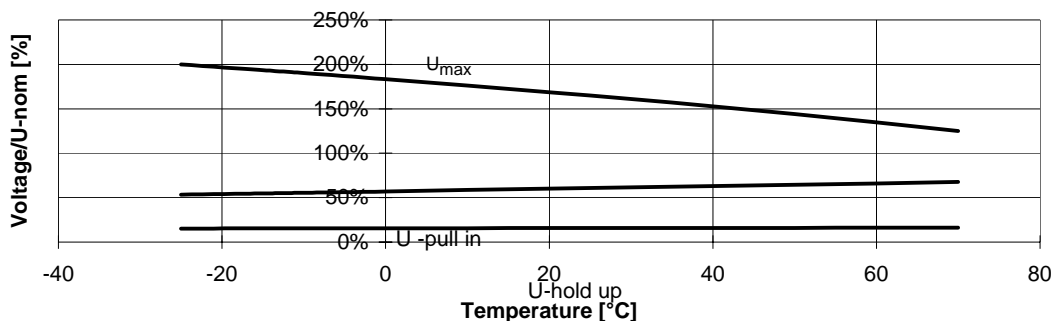
Plug-in railway relay with four change-over contacts.  
Equipped with back EMF protection and magnetic arc blow out.

### Coil data

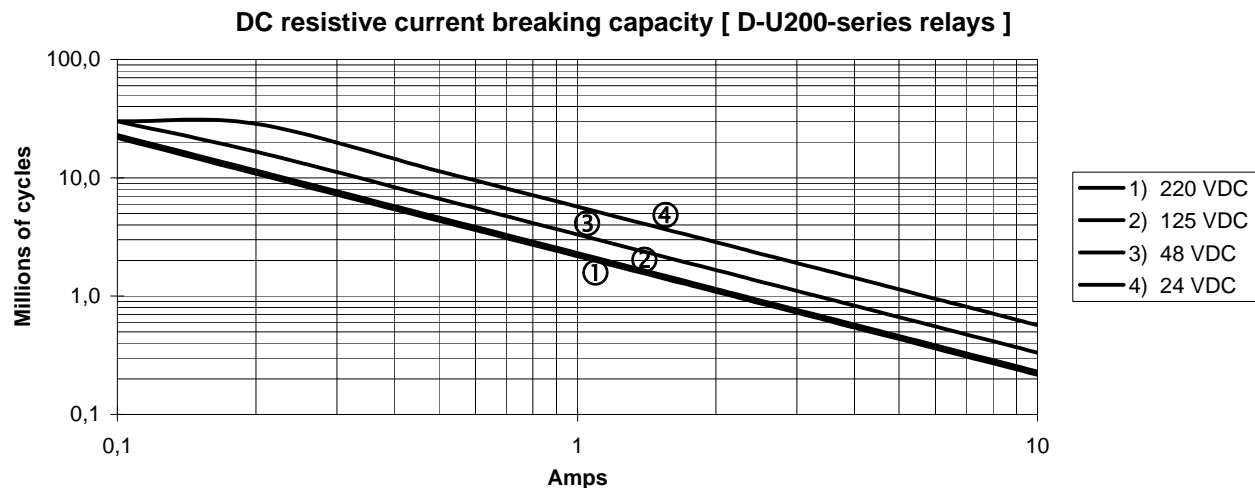
Type	$U_{nom}$	$U_{min}$	$U_{max}$	$U_{hold-up}$	$R_{coil}$	$I_{coil-nom}$
D-U201	24 VDC	16.8 VDC	30 VDC	2.5 VDC	280 $\Omega$	85.7 mA
D-U202	48 VDC	33.6 VDC	60 VDC	4.8 VDC	1110 $\Omega$	43.2 mA
D-U203	72 VDC	50.4 VDC	90 VDC	13 VDC	2495 $\Omega$	28.8 mA
D-U204	110 VDC	77 VDC	137.5 VDC	11 VDC	5830 $\Omega$	18.9 mA
D-U205	96 VDC	67 VDC	120 VDC	9.5 VDC	4300 $\Omega$	22.3 mA
D-U206	12 VDC	8.4 VDC	15 VDC	1.2 VDC	66 $\Omega$	181 mA
D-U207	36 VDC	25.2 VDC	45 VDC	3.5 VDC	580 $\Omega$	62 mA

<b>Nom. Consumption</b>	2.22 W	Inductance	Energized	11 ms
		L/R at $U_{nom}$ =	Released	8 ms
<b>Pull-in time</b>	20 ms	<b>Release time</b>		18 ms
<b>Bounce time NO contacts</b>	4 ms	<b>Bounce time NC contacts</b>		8 ms

### Operating range at various temperatures




Contact data			
Max. make current	16 A (200 A, 10 ms)	Material	silver
Max. cont. current	10 A (AC1 ; IEC 60947)	Contactgap	0.7 mm
Max. switching voltage	250 VDC, 440 VAC	Insulation between open contacts	2.5 kV; 50 Hz; 1 min
Min. switching voltage	12 V, 10mA		
Max. contact resistance	15 milli Ohm	Contactforce	> 200 mN
Max. breaking capacity	DC 110 V, 10A (L/R<=15ms) AC 230 V, 10A (cos phi>=0.7)		



Other contact data on request

General Data			
Dielectric strength	Pole-Pole	EN 50155	4 kV, 50 Hz, 1 min
	Cont-Coil	IEC 60255-5/ IEC 60077	
Insulation class	IEC 60255-5	serie C 380 V 50Hz/450 VDC	
Pulse withstanding	IEC 60255-5	5 kV ( 1.2/50 $\mu$ s )	
Vibration	IEC 60077	5 g at 50 Hz	
	IEC 60571-1	2 g, 10-150 Hz	
	EN 50155		
Shock	IEC 60077	5 g at 50 Hz	
Mechanical life		30*10 <sup>6</sup> ops	
Max. switching frequency		1200 ops/h	
Weight		125 g	
Temperature	T <sub>amb,max</sub>	+70 °C	
	T <sub>amb,min</sub>	-25 °C	
Humidity		90%, temporary permitted condensation	
Protection		IP 40	
Materials		Makrolon	
		Melamine Polyester	
Electronic components		Back EMF protection diode BYW56	
Options	D U200 options according to table		
C	-40 °C maximum contactcurrent 8A	Q	Double zenerdiode
E	Gold plated contacts	T	Push to test button
K	Special dust protection	X2	Coil for both DC and AC
L	LED indication on the coil	Y	Double make/ double break
N	No magnetic arc blow-out	Z	No diode

## OPTION DATASHEET

<b>Product</b>	<b>Option E for D-U200 series</b>
	<b>Country of Origin:</b> The Netherlands
	<b>Company</b>
	 <p>P.O. Box 7023 3502 KA Utrecht The Netherlands <b>T</b> +31 (0)30-288 13 11 <b>F</b> +31 (0)30-289 88 16 <b>E</b> sales@nieaf-smitt.nl <b>I</b> www.nieaf-smitt.nl/railway</p>
<b>Description</b>	
Equipped with gold plated contacts for low current, dry circuit and mixed load switching. Also suitable for use in corrosive environments.	
<b>Contact Data</b>	
<b>Contact material</b>	Ag, 16µm gold plated
<b>Contact gap</b>	0.8 mm
<b>Contact force</b>	> 200 mN
<b>Max Switching Capacity</b>	60V, 400mA At higher rate gold will evaporate, then the standard contact rating is valid
<b>Min. Switching Capacity</b>	1 µA, 1 µV
<b>Max. Make current ( for Ag)</b>	16 A (200 A, 10 ms)
<b>Max Cont. Current (for Ag)</b>	10 A ( AC1 ; IEC 60947 )

### Other specifications according to D-U200 series

This specification sheet can be subject to changes without any notice

**Australian Distributor**



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