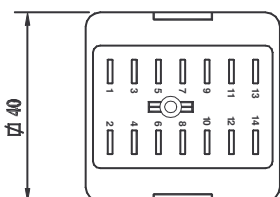
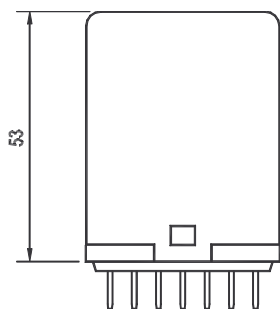


# CURRENT SENSING RELAY

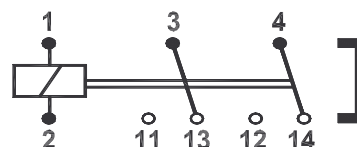
<b>Product</b> DI-U900 series 2 pole relay	<b>Country of origin:</b> The Netherlands
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<b>Dimensions</b>	<b>Company</b>
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I www.nieaf-smitt.nl/railway

### Connection Diagram



### Description

Plug-in railway relay with two change-over contacts.  
Current defined coil and equipped with magnetic arc blow-out

### Coil data

#### Operating times at nominal voltage

Pull-in time	20 ms	Release time	5 ms
Bounce time NO contacts	4 ms	Bounce time NC contacts	8 ms
Voltage drop across coil	DC: $0.5 \times I / (I_{nom})^2$	AC: $2 \times I / (I_{nom})^2$	
Hold-up current	DC: $0.1 - 0.4 I_{nom}$	AC: $0.3 - 0.7 I_{nom}$	

#### Nominal currents (DC)

Type code	$I_{nom}$	$I_{pull\ in}$	$I_{max}$	$R_{coil}$
DI-U901 2.7 ADC	2.7 A	2.16 A	5.4 A	0.04 $\Omega$
DI-U902 1.2 ADC	1.2 A	0.96 A	2.4 A	0.2 $\Omega$
DI-U903 0.39 ADC	0.39 A	0.312 A	0.78 A	2.1 $\Omega$
DI-U904 0.12 ADC	0.12 A	0.096 A	0.24 A	22 $\Omega$
DI-U905 0.082 ADC	0.082 A	0.066 A	0.164 A	45 $\Omega$
DI-U906 0.018 ADC	0.018 A	0.014 A	0.036 A	940 $\Omega$
DI-U907 0.063 ADC	0.063 A	0.050 A	0.126 A	72 $\Omega$

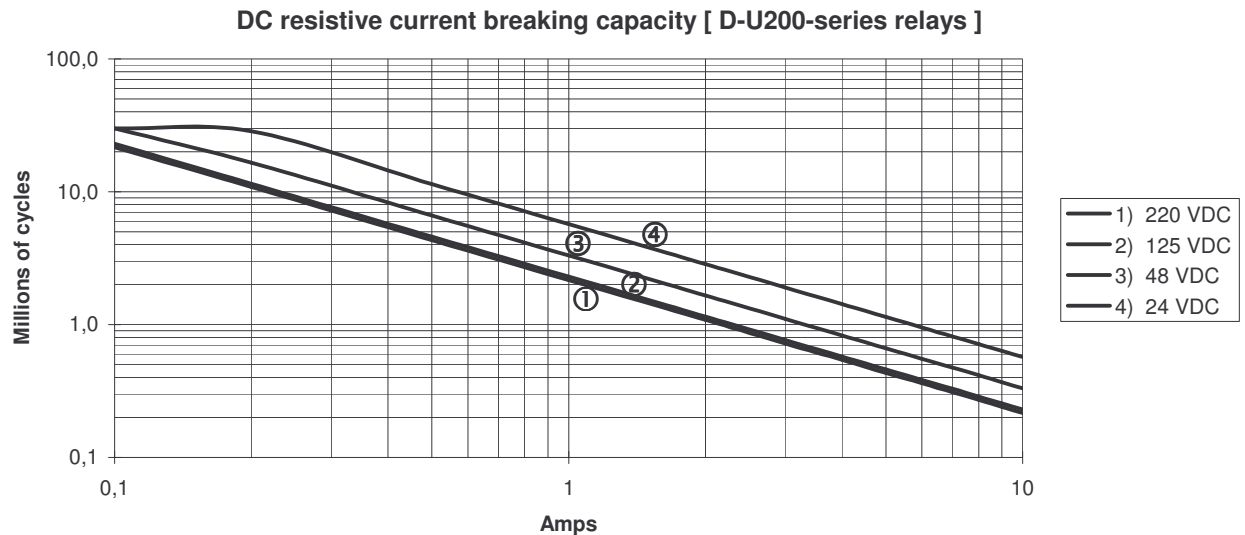
#### OTHER CURRENTS ON REQUEST

#### Nominal currents (AC, 50 Hz)

Type code	$I_{nom}$	$I_{pull\ in}$	$I_{max}$	$R_{coil}$
DI-U950 3.3 A	3.3 A	2.64 A	4.62 A	0.026 $\Omega$
DI-U951 2.2 A	2.2 A	1.76 A	3.08 A	0.068 $\Omega$
DI-U952 1.0 A	1.0 A	0.8 A	1.4 A	0.31 $\Omega$
DI-U953 0.56 A	0.56 A	0.448 A	0.784 A	0.91 $\Omega$
DI-U954 0.27 A	0.27 A	0.216 A	0.378 A	3.8 $\Omega$
DI-U955 0.12 A	0.12 A	0.096 A	0.168 A	22 $\Omega$
DI-U956 0.082 A	0.082 A	0.066 A	0.115 A	45 $\Omega$

#### OTHER CURRENTS/FREQUENCIES ON REQUEST

Contact data			
Max. make current	16A (200A, 10ms)	Material	silver
Max. cont. current	10 A (AC1 ; IEC 60947)	Contactgap	0.7 mm
Max. switching voltage	250VDC, 440VAC	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 loads on request

General data			
Dielectric strength	Pole-Pole	EN 50155	4 kV, 50 Hz, 1 min
	Cont-Coil	IEC 60255-5/ IEC 60077	2.5 kV, 50 Hz, 1 min
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	2 g, 10-150 Hz
		EN 50155	
Shock		IEC 60077	5 g at 50 Hz
Mechanical life			30*10 <sup>6</sup> ops   10*10 <sup>6</sup> ops for AC types
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			90%, temporary permitted condensation
Protection			IP 40
Materials			Makrolon Melamine Polyester
Electronic components			none
Options			
C			-40°C, maximum contact current 8A
E			Gold plated contacts
K			Special dust protection
M			AgSnO <sub>2</sub> contacts

**Australian Distributor**



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