

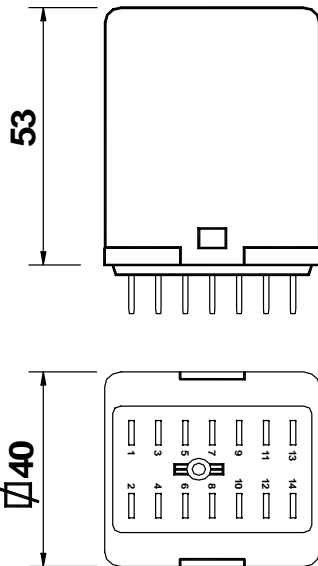
INSTANTANEOUS RELAY

Product D-U200 series
4 pole relay

Country of Origin: The Netherlands

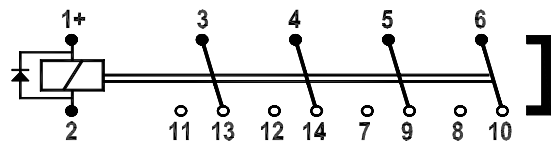
Dimensions

Company



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Connection diagram



Description

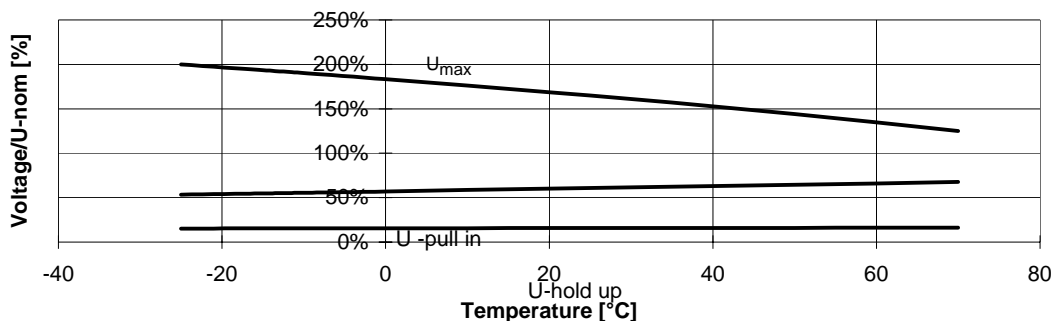
Plug-in railway relay with four change-over contacts.
Equipped with back EMF protection and magnetic arc blow out.

Coil data

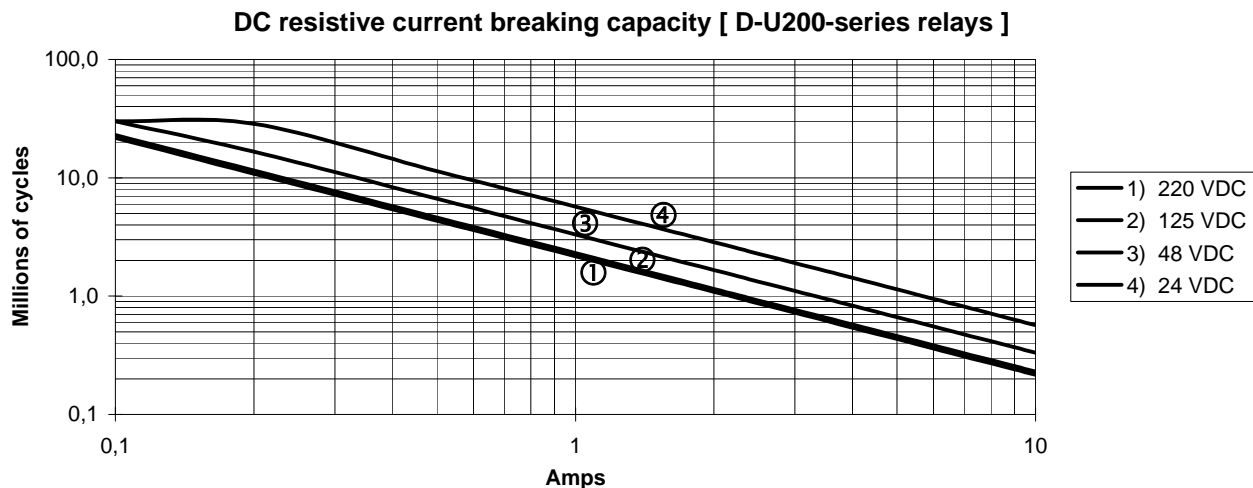
Type	U _{nom}	U _{min}	U _{max}	U _{hold-up}	R _{coil}	I _{coil-nom}
D-U201	24 VDC	16.8 VDC	30 VDC	2.5 VDC	280 Ω	85.7 mA
D-U202	48 VDC	33.6 VDC	60 VDC	4.8 VDC	1110 Ω	43.2 mA
D-U203	72 VDC	50.4 VDC	90 VDC	13 VDC	2495 Ω	28.8 mA
D-U204	110 VDC	77 VDC	137.5 VDC	11 VDC	5830 Ω	18.9 mA
D-U205	96 VDC	67 VDC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

Nom. Consumption	2.22 W	Inductance	Energized	11 ms
		L/R at U_{nom} =	Released	8 ms
Pull-in time	20 ms	Release time		18 ms
Bounce time NO contacts	4 ms	Bounce time NC contacts		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 μ 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 ⁶ ops
Max. switching frequency			1200 ops/h
Weight			125 g
Temperature	T _{amb,max}		+70 °C
	T _{amb,min}		-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

Product	Option E for D-U200 series
	Country of Origin: The Netherlands
	Company
	 <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/railway</p>
Description	
Equipped with gold plated contacts for low current, dry circuit and mixed load switching. Also suitable for use in corrosive environments.	
Contact Data	
Contact material	Ag, 16µm gold plated
Contact gap	0.8 mm
Contact force	> 200 mN
Max Switching Capacity	60V, 400mA At higher rate gold will evaporate, then the standard contact rating is valid
Min. Switching Capacity	1 µA, 1 µV
Max. Make current (for Ag)	16 A (200 A, 10 ms)
Max Cont. Current (for Ag)	10 A (AC1 ; IEC 60947)

Other specifications according to D-U200 series

This specification sheet can be subject to changes without any notice