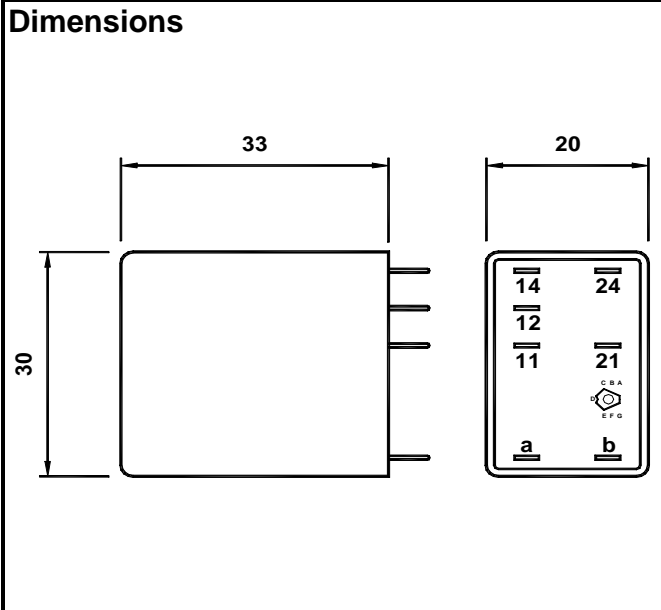


Datasheet MINIATURE INSTANTANEOUS RELAY

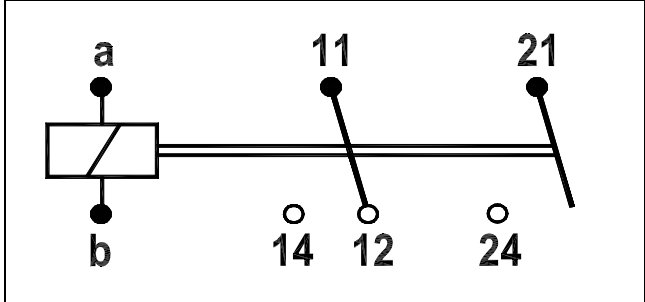
Product CU-D

Country of Origin: The Netherlands



SMITT RELAYS

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 3502 KA Utrecht
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F +31 (0)30-289 88 16
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Description

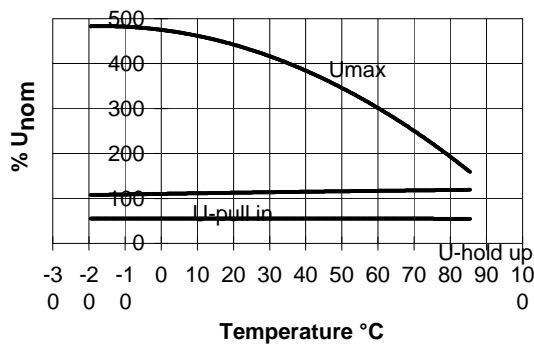
Miniature plug-in relay with one change-over contact and one normally-open contact. Extremely wide coil-voltage range. High insulation because of flash barrier. The relay has forced contacts, so the contacts cannot have a different position. Also available in PCB-version (CP-D)

Coil Data

Operating times at nominal voltage

pull-in time	15 ms	release time	3 ms
bounce time NO contacts	1 ms	bounce time NC contacts	1 ms
Coil consumption	0.1 W at U_{nom}	Inductance at U_{nom} L/R =	8 ms
Hold-up voltage	15 % U_{nom}		

Operating range at various temperatures



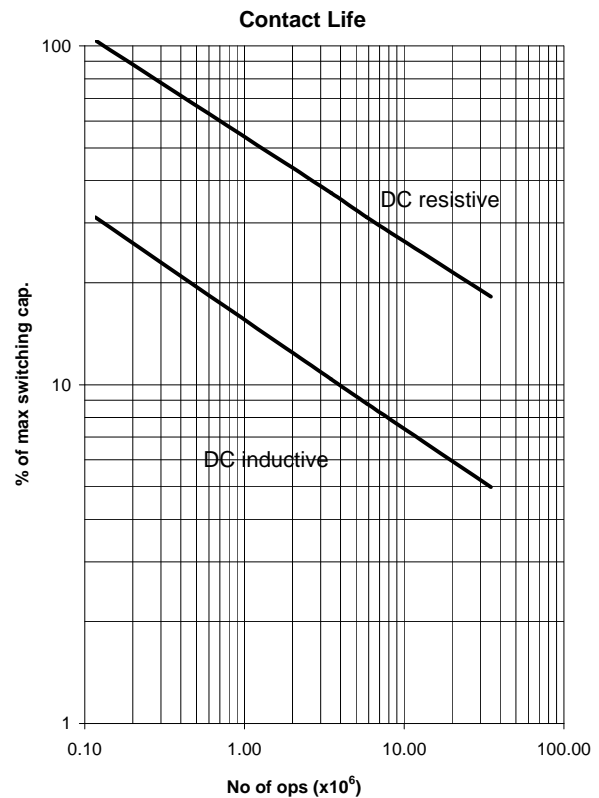
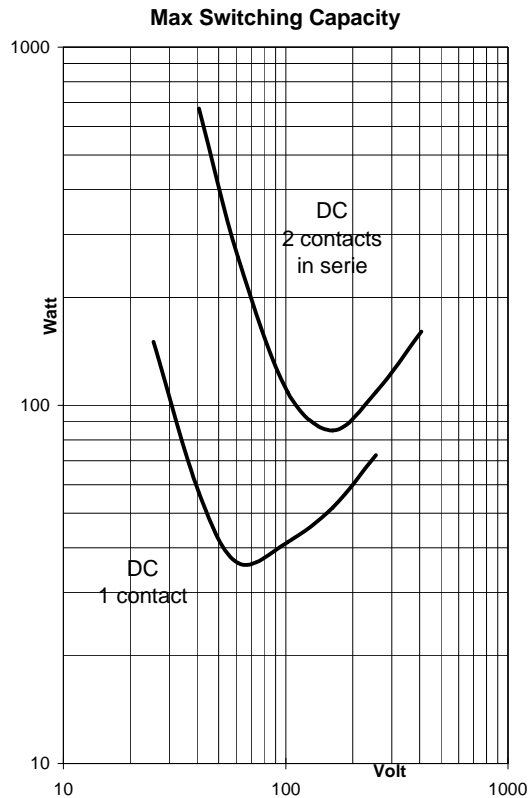
Nominal voltages

U_{nom} DC	Type	Resistance
6 V	CU-D38	400 W
9.3 V	CU-D34	900 W
12 V	CU-D32	1550 W
15 V	CU-D30	2500 W
19 V	CU-D28	3800 W
24 V	CU-D26	6100 W
30 V	CU-D24	9300 W
38 V	CU-D22	15000 W
48 V	CU-D20	22000 W

Other types on request

Contact data			
Max. Make Current	15 A	Material	Ag+0.2µm Au
Max. Cont. Current	6 A (AC1 ; IEC 947)	Contact gap	0.3 mm
Max. Switching Voltage		Insulation between open contacts	1 kV; 50 Hz; 1 min
	DC 300 V, 300 mA AC 250 V, 2.6 A	Contact force	> 20 cN
Min. Switching Voltage	4V/2mA/0.1W-VA	Note : contacts cannot have a different position. (Forced contacts, Weld no transfer)	
Max. Contact Resistance	15 milli Ohm		

Maximum Switching Capacity and Contact life



General Data

Dielectric strength	Pole-Pole	IEC 255-5	3,5 kV, 50 Hz
	Cont-Coil	IEC 77	4 kV, 50 Hz
Pulse Withstanding		IEC 255-5	5 kV (1.2/50 µs)
Vibration		IEC 77	5 g at 50 Hz
		IEC 571-1	2 g, 10-150 Hz
		IEC 68-2-6	
Shock		IEC 68-2-27	15 g, 11 ms
Mechanical life			30*10 ⁶ ops
Max. Switching Frequency			3600 ops/h
Weight			40 gram
Temperature	T _{amb,max}		+ 85 °C
	T _{amb,min}		- 25 °C
Humidity			90 %, temporary permitted condensation
Protection			IP 50
Materials			Polyester Makrolon
Electronic Components			not applicable