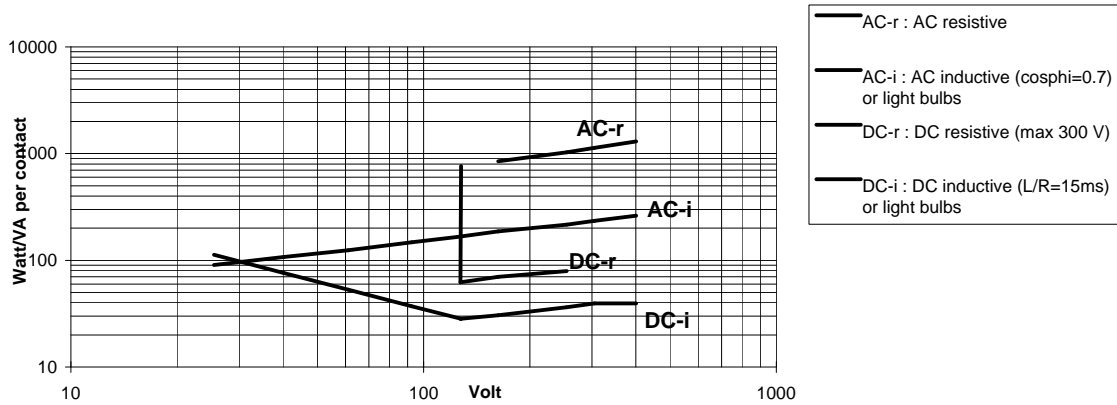


Datasheet		MINIATURE INSTANTANEOUS RELAY			
Product		CU-B/C relays		Country of Origin: The Netherlands	
Dimensions				<p>P.O. Box 7023 3502 KA Utrecht The Netherlands T +31 (0)30-288 13 11 F +31 (0)30-289 88 16 E sales@nieaf-smitt.nl I www.nieaf-smitt.nl</p>	
Description					
Small plug-in relay with two change-over contacts. DC-version : CU-B ; AC-version : CU-C Equipped with magnetic arc blow-out for higher contactlife Also available in PCB-version (CP-B or CP-C)					
Coil Data					
Operating times at nominal voltage					
Pull-in time		DC : 12 ms 50 Hz : 11 ms 60 Hz : 13 ms		Release time	
Bounce time NO contacts		1 ms		DC : 5 ms 50 Hz : 12 ms 60 Hz : 12 ms	
Bounce time NC contacts		1 ms		7 ms	
Coil Consumption at U_{nom}		DC : 1 W 50 Hz : 0.9 VA 60 Hz : 0.6 VA		Inductance at U_{nom} L/R = cosphi 0.7	
Min. hold-up Voltage		DC : 0.1 U_{nom} 50 Hz : 0.25 U_{nom} 60 Hz : 0.3 U_{nom}			
Nominal Voltages DC					
Type code	U_{nom}	$U_{pull\ in}$	$U_{hold\ up}$	$U_{max\ (40\ ^\circ C)}$	R_{coil}
CU-B48	6 VDC	4.8 V	0.6 V	6.9 V	40 W
CU-B42	12 VDC	9.6 V	1.2 V	13.8 V	165 W
CU-B36	24 VDC	19.2 V	2.4 V	27.6 V	600 W
CU-B30	48 VDC	38.4 V	4.8 V	55.2 V	2500 W
CU-B28	60 VDC	48.0 V	6.0 V	69.0 V	3800 W
CU-B23	110 VDC	88.0 V	11.0 V	126.5 V	12400 W
Nominal Voltages AC					
50 Hz/60 Hz respectively					
Type code	U_{nom}	$U_{pull\ in}$	$U_{hold\ up}$	$U_{max\ (40\ ^\circ C)}$	R_{coil}
CU-C42	24 VAC	16 V/19 V	6 V/7 V	28 V/32 V	165 W
CU-C37	42 VAC	29 V/33 V	10 V/12 V	49 V/55 V	540 W
CU-C28	110 VAC	77 V/88 V	27 V/33 V	127 V/143 V	3800 W
CU-C22	220 VAC	154 V/176 V	55 V/66 V	253 V/286 V	15000 W

Other voltages on request

Contact data			
Max. Make Current	10 A	Material	Ag
Max. Cont. Current	8 A	Contactgap	1.0 mm
Max. breaking Capacity	DC 350 V	Insulation between open contacts	2.5 kV; 50 Hz, 1 min
	AC 380 V		
Min. Switching Load	6 V/4mA/0.4W-VA	Note : contacts cannot have a different position. (Forced contacts, Weld-no-transfer)	
Max. Contact Resistance	15 milli Ohm		

Maximum Switching Capacity



General Data

Dielectric strength	Pole-Pole	IEC 255-5	3 kV, 50 Hz, 1 min
	Cont-Coil		4 kV, 50 Hz, 1 min
Pulse Withstanding		IEC 255-5	5 kV (1.2/50 μ s)
Vibration		IEC 68-2-6	5 g at 50 Hz
Shock		IEC 68-2-27	15 g, 11 ms
Mechanical life			CU-B: 10*10 ⁶ ops CU-C: 5*10 ⁶ ops
Max. Switching Frequency			1200 ops/h
Weight			40 g
Temperature	T _{amb,max}		+40 °C +50 °C, 1 cm detached Higher T on request
	T _{amb,min}		-25 °C
Humidity			90 %, temporary permitted condensation
Protection			IP 50
Materials			Makrolon Polyester Recipol