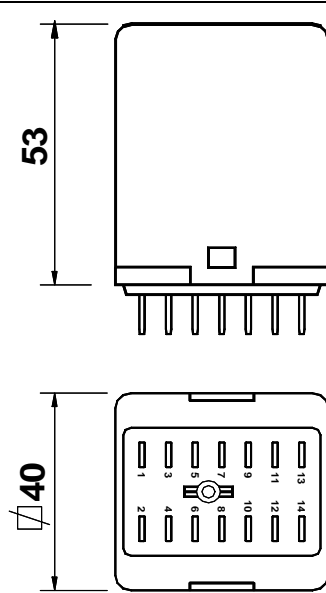

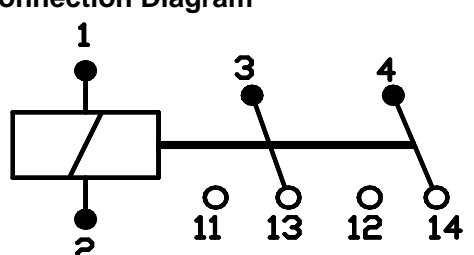
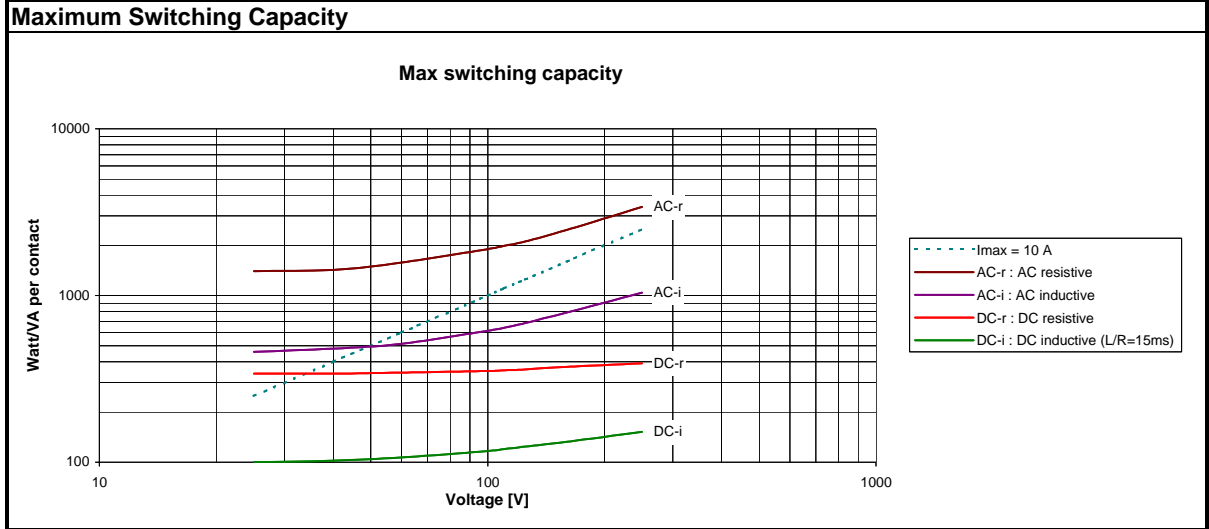


Datasheet		CURRENT SENSING RELAY	
Product	DI relay	Country of Origin:	The Netherlands
Dimensions		 <p>P.O. Box 7023 3502 KA Utrecht The Netherlands T +31 (0)30-288 13 11 F +31 (0)30-289 88 16 E sales@nieaf-smitt.nl I www.nieaf-smitt.nl</p>	
Description		Connection Diagram 	
Plug-in relay with two change-over contacts. Current-defined coil.			
Coil data			
Operating times at nominal current			
Pull-in time	20 ms DC / 10ms AC	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}
DI 2.7 ADC	2.7 A	2.16 A	5.4 A
DI 1.2 ADC	1.2 A	0.96 A	2.4 A
DI 0.39 ADC	0.39 A	0.312 A	0.78 A
DI 0.12 ADC	0.12 A	0.096 A	0.24 A
DI 0.082 ADC	0.082 A	0.066 A	0.164 A
DI 0.018 ADC	0.018 A	0.014 A	0.036 A
R_{coil}			
			0.04 Ω
			0.2 Ω
			2.1 Ω
			22 Ω
			45 Ω
			940 Ω
Nominal Currents AC 50 Hz			
Type code	I_{nom}	$I_{pull\ in}$	I_{max}
DI 3.3 A	3.3 A	2.64 A	4.62 A
DI 2.2 A	2.2 A	1.76 A	3.08 A
DI 1.0 A	1.0 A	0.8 A	1.4 A
DI 0.56 A	0.56 A	0.448 A	0.784 A
DI 0.27 A	0.27 A	0.216 A	0.378 A
DI 0.12 A	0.12 A	0.096 A	0.168 A
DI 0.082 A	0.082 A	0.066 A	0.115 A
R_{coil}			
			0.026 Ω
			0.068 Ω
			0.31 Ω
			0.91 Ω
			3.8 Ω
			22 Ω
			45 Ω

Other currents/ frequencies on request

Contact data			
Max. Make Current	16 A	Material	silver
Max. Cont. Current	10 A (AC1 ; IEC 60947)	Contactgap	0.7 mm
Max. Breaking Capacity		Insulation between open contacts	2.5 kV, 50 Hz, 1 min
	DC 110 V, 1 A AC 440 V	Contactforce	> 200 mN
Min. Switching Voltage	12 V, 10mA		
Max. Contact Resistance	15 mΩ		



General Data		
Dielectric strength	Pole-Pole	IEC 60255-5 4 kV, 50 Hz, 1 min
	Cont-Coil	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 μs)
Vibration	IEC 60068-2-2	5 g at 50 Hz 2 g, 10-150 Hz
Shock	IEC 60068-2-2	15 g, 11 ms
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 Polyester
Electronic Components		none
Options		B Magnetic arc blow-out E Gold plated contacts Other options on request