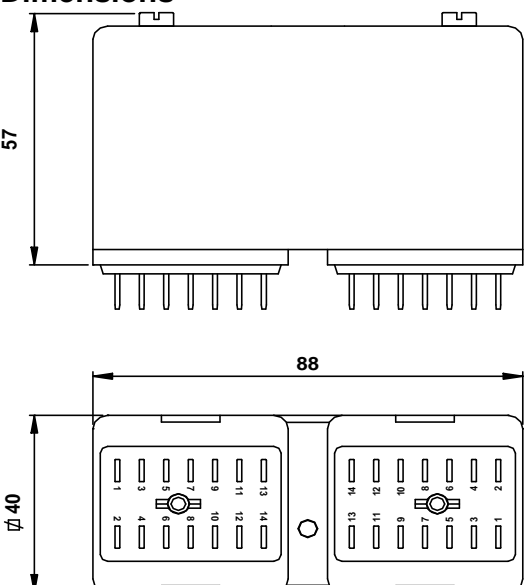

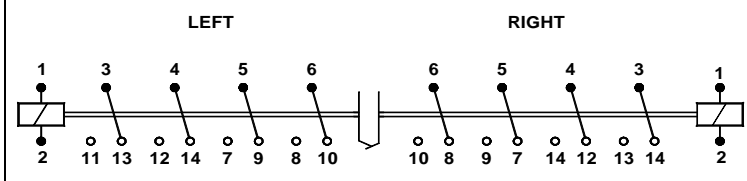
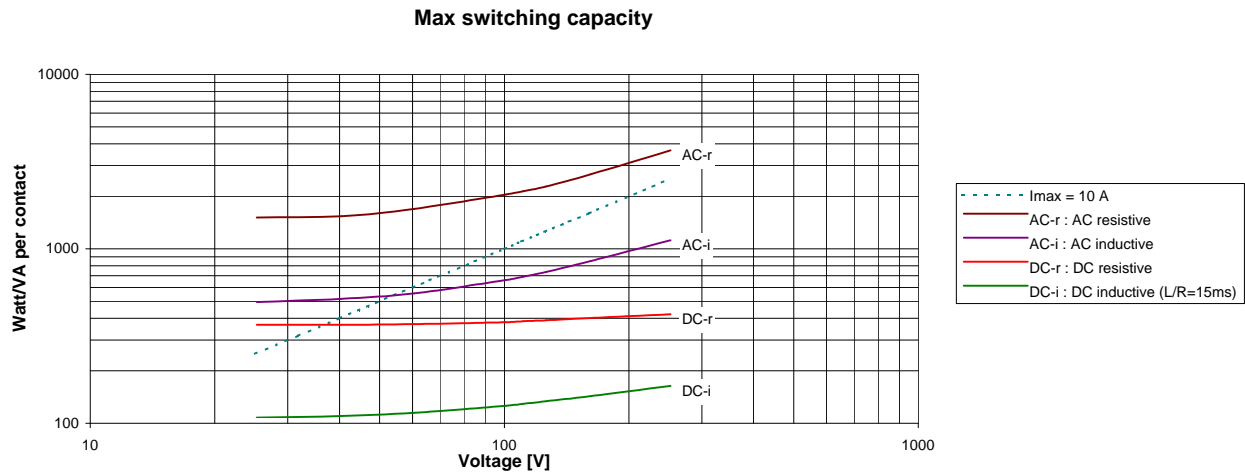


Datasheet		LATCHING RELAY	
Product KDN relays		Country of Origin: The Netherlands	
Dimensions 		 P.O. Box 7023 3502 KA Utrecht The Netherlands T +31 (0)30-288 13 11 F +31 (0)30-289 88 16 E sales@nieaf-smitt.nl I www.nieaf-smitt.nl	
CONNECTION DIAGRAM			
			
Description			
Plug-in mechanically latching relay with eight change-over contacts. Equipped with position indicator.			
Coil data			
Operating times at nominal voltage			
Minimum impuls time	50 ms		
Bounce time NO contacts	4 ms	Bounce time NC contacts	8 ms
Coil consumption	3.2 W at U_{nom}	Inductance	Energized
	3.5 VA at U_{nom}	L/R at U_{nom} =	Released
			11 ms
			8 ms
Nominal voltages DC			
Type code	U_{nom}	$U_{pull\ in}$	$U_{max} (40\ ^\circ C)$
KDN 12 VDC	12 V	9.6 V	13.2 V
KDN 24 VDC	24 V	19.2 V	26.4 V
KDN 48 VDC	48 V	38.4 V	52.8 V
KDN 60 VDC	60 V	48.0 V	66.0 V
KDN 110 VDC	110 V	88.0 V	121.0 V
KDN 125 VDC	125 V	100.0 V	137.5 V
KDN 220 VDC	220 V	176.0 V	242.0 V
			R_{coil}
			44 W
			172 W
			691 W
			1070 W
			4055 W
			6160 W
			15000 W
Nominal voltages AC 50 Hz			
KDN 24 V	24 V	19.2 V	26.4 V
KDN 42 V	42 V	33.6 V	46.2 V
KDN 110 V	115 V	92.0 V	126.5 V
KDN 220 V	220 V	176.0 V	242.0 V
			34 W
			135 W
			830 W
			3200 W

Other voltages on request

Contact data			
Max. Make Current	16 A	Material	silver
Max. Cont. Current	10 A (AC1 ; IEC 947)	Contactgap	0.8 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		
Max. Contact Resistance	15 mW		

Maximum Switching Capacity



General Data

Dielectric strength	Pole-Pole	IEC 255-5/	4 kV, 50 Hz, 1 min
	Cont-Coil		2.5 kV, 50 Hz, 1 min
Insulation Class	IEC 255-5	serie C 380 V 50Hz/450 VDC	
Vibration	IEC 68-2-6	5 g at 50 Hz 2 g, 10-150 Hz	
Shock	IEC 68-2-27	15 g, 11 ms	
Mechanical life		2*10 ⁶ ops	
Max. Switching Frequency		1200 ops/h	
Weight		320 g	
Temperature	T _{amb,max}	+40 °C +55 °C, 1 cm detached Higher T on request	
	T _{amb,min}	-25 °C	
Humidity		90%, temporary permitted condensation	
Protection		IP 50	
Materials		Makrolon Polyester	