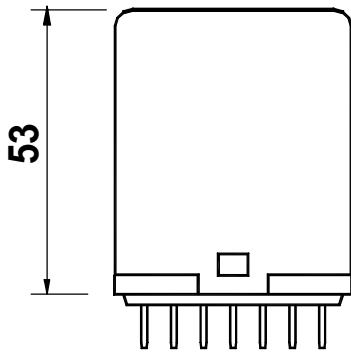

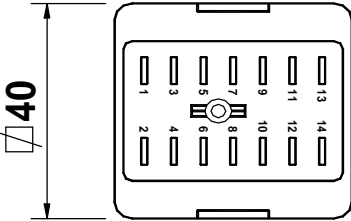
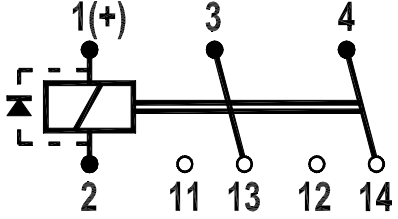
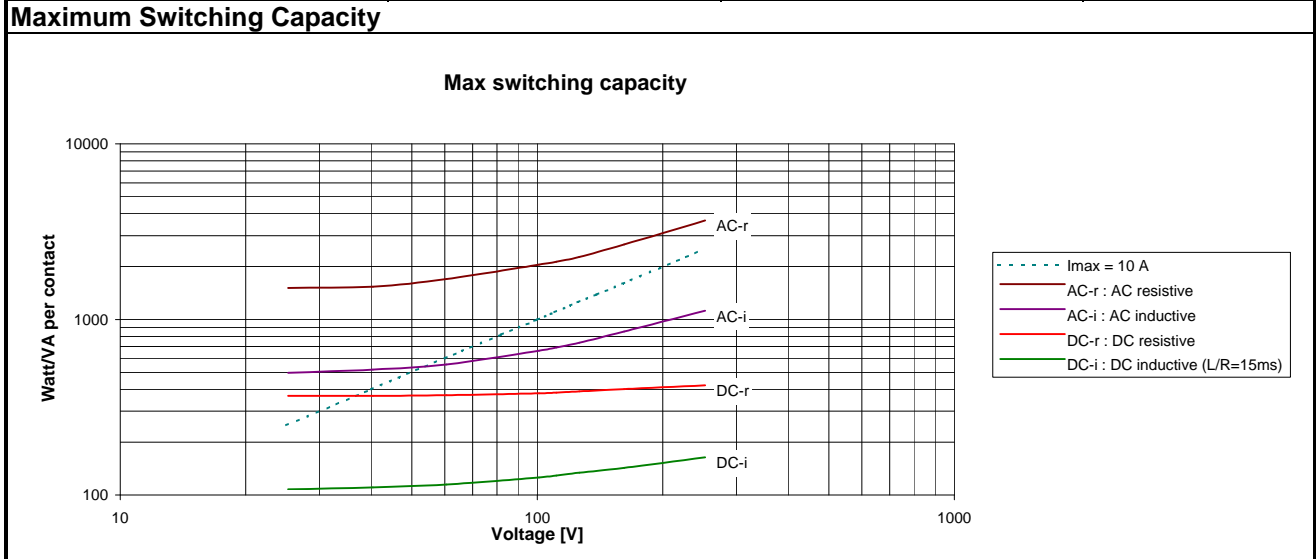


Datasheet		INSTANTANEOUS RELAY, LOW OPERATE VOLTAGE			
Product	DGG relay		Country of Origin: The Netherlands		
Dimensions			 <p>P.O. Box 7023 3502 KA Utrecht The Netherlands T +31 (0)30-288 13 11 F +31 (0)30-289 88 16 E sales@nieaf-smitt.nl I www.nieaf-smitt.nl</p>		
					
Connection Diagram 					
Description					
Plug-in relay with two change-over contacts.					
Extremely sensitive coil. (Pull-in voltage $0.4 \times U_{nom}$)					
Coil data					
Operating times at nominal voltage					
Pull-in time	20 ms DC / 10ms AC		Release time	18 ms DC/5ms AC	
Bounce time NO contacts	4 ms		Bounce time NC contacts	8 ms	
Coil consumption	2 W/VA at U_{nom}		Inductance	Energized	11 ms
Min. Hold-up Voltage	DC	$0.05 U_{nom}$	L/R at U_{nom}	Released	8 ms
	AC	$0.3 U_{nom}$			
Nominal voltages DC					
Type code	U_{nom}	$U_{pull\ in}$	$U_{hold\ up}$	$U_{max} (40\ ^\circ C)$	R_{coil}
DGG 12 VDC	12 V	4.8 V	0.6 V	13.2 V	72 W
DGG 24 VDC	24 V	9.6 V	1.2 V	26.4 V	290 W
DGG 48 VDC	48 V	19.2 V	2.4 V	52.8 V	1150 W
DGG 60 VDC	60 V	24.0 V	3.0 V	66.0 V	1840 W
DGG 125 VDC	125 V	50.0 V	6.3 V	137.6 V	6500 W
DGG 220 VDC	220 V	88.0 V	11.0 V	242.0 V	25000 W
Nominal voltages AC 50 Hz					
DGG 12 V	12 V	7.2 V	3.6 V	13.2 V	10 W
DGG 24 V	24 V	14.4 V	7.2 V	26.4 V	44 W
DGG 42 V	42 V	25.2 V	12.6 V	46.2 V	133 W
DGG 115 V	115 V	69.0 V	34.5 V	126.5 V	1140 W
DGG 220 V	220 V	132.0 V	66.0 V	242.0 V	4400 W
DGG 230 V	230 V	138.0 V	69.0 V	259.0 V	4800 W
DGG 380 V	380 V	228.0 V	114.0 V	420.0 V	12500 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	DC 110 V, 1 A	Insulation between open contacts	2.5 kV, 50 Hz, 1 min
	AC 440 V		
Min. Switching Voltage	12 V	Contactforce	> 200 mN
Max. Contact Resistance	15 mW		



General Data			
Dielectric strength	Pole-Pole	IEC 255-5 and	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
Pulse Withstanding	IEC 255-5		5 kV (1.2/50 μ s)
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			30*10 ⁶ ops
Max. Switching Frequency			1200 ops/h
Weight			125 g
Temperature	T _{amb,max}		+40 °C
	T _{amb,min}		+50 °C, 1 cm detached Higher T on request -20 °C
Humidity			90%, temporary permitted condensation
Protection			IP 50
Materials			Makrolon Polyester
Electronic Components			Back EMF protection diode (DC-types)