



- HVDC 55A at 450VDC
- PCB mounting
- Max. switching current = 500A
- Contacts sealed in inert gas
- Magnet arc blowout
- Pre-charge relay



## Contacts

Contact arrangement	SPST-NO-DM	
Contact material	T2+Ag	
Max. switching voltage	AC/DC	900VDC
Rated load (resistive, cos φ=1)	DC1	55A 450VDC
Max. continuous thermal current	30s	150A
	10s	250A
Max switching current	1 time only	500A 350VDC
Initial contact resistance	max.	1mΩ (at 1A)

## Coil

Nominal voltage (see page 2)	DC	6...72VDC
Rated power consumption	approx.	3.2W @ 12VDC

## Insulation

Insulation resistance	initial	100MΩ (min.)
	life end	50MΩ (min.)
Dielectric strength	coil to contact	2500Vrms / 1mA / 1 min (at sea level)
	contact to contact	2500Vrms / 1mA / 1 min (at sea level)

## General Data

Operate time at 20°C	max.	25ms
Bounce time at 20°C	max.	7ms
Release time at 20°C	max.	12ms
Electrical life	ops.	Voltage and current dependent - see fig. 1
Mechanical life	ops.	1 x 10 <sup>6</sup>

## Environmental

Environmental sealing	Contacts & coil inside a hermetically sealed can	
Ambient temperature	operating	-40 to +85°C
Relative humidity	5 to 85%RH	
Shock resistance	20G peak, 11ms ½ sine	
Vibration resistance	20G sine peak (80 to 2000Hz)	
Dimensions	L x W x H	49.5 x 51 x 37.7mm approx. (above PCB)
Weight	approx.	150g±5g

## Ordering Code

D E V R 0 5 - 5 0 6 1 - S 8 - 1 0 1 2 - P C B

Series

Coil code:  
See table 1

Contact material

50: T2+Ag

Contact arrangement

61: SPST-NO

81: SPST-NO (no polarity)

Body style

S8: PCB with M4 Female power terminals

Mounting & terminations

PCB: PCB mounting, coil & power contacts

Coil Data							Table 1
Coil code	Nominal voltage (VDC)	Must operate voltage max. (VDC at 20°C)	Maximum allowable voltage (VDC)	Must release voltage min. (VDC)	Coil resistance $\Omega \pm 5\%$ (at 20°C)	Coil Current (mA)	Coil Power (W at 20°C)
1006	6	4.8	7.2	0.6	11	545.5	3.3
1012	12	9.6	14.4	1.2	45	266.7	3.2
1024	24	19.2	28.8	2.4	167	143.7	3.45
1028	28	22.4	33.6	2.8	240	116.7	3.3
1036	36	28.8	43.2	3.6	400	90.0	3.2
1048	48	38.4	57.6	4.8	630	76.2	3.66
1072	72	57.6	86.4	7.2	1600	45.0	3.2

