



\*Image is for illustrative purposes only. Please refer to datasheet for detail.

- Max. switching current = 2000A
- Contacts sealed in inert gas
- Magnet arc blowout
- Auxiliary contact option (mechanically linked)
- Female M6 or M8 Male power terminals
- Non-polarised (bi-directional) design
- Dual coil economiser (with TVS diode protection)

### Contacts

Contact arrangement	SPST-NO-DM
Contact material	T2+Ag
Max. switching voltage	AC/DC 1000VDC
Rated load (resistive, $\cos \phi=1$ )	DC1 200A 1000VDC (break only above 200A)
Max. continuous thermal current	600s 280A
	30s 900A
Max switching current	1 time only 2000A 450VDC
Initial contact resistance	max. 30mΩ (at 1A)
	typ. 1mΩ (at 1A)
Auxiliary contact (when fitted)	arrangement SPST-NO (1 Form A)
	max. current 2A @ 30VDC / 3A @ 125VAC
	min. current 100mA @ 8VDC

### Coil

Nominal voltage (see page 2)	DC 12VDC, 24VDC
Rated power consumption	hold 6W @ 12VDC

### Insulation

Insulation resistance	initial 100MΩ (Min.)
	life end 50MΩ (Max.)
Dielectric strength	coil to contact 3500Vrms / 10mA / 1 min (at sea level)
	contact to contact 3500Vrms / 10mA / 1 min (at sea level)

### General Data

Operate time at 23°C	max. 30ms
Bounce time at 23°C	max. 7ms
Release time at 23°C	max. 12ms
Electrical life	ops. Voltage and current dependent - see fig. 1
Mechanical life	ops. $2 \times 10^5$

### Environmental

Environmental Seal (Power Contacts)	IP IP67
Ambient temperature	operating -40 to +85°C
	storage -70 to +150°C
Relative humidity	5 to 95%RH
Shock resistance	20g peak, 11ms 1/2 sine
Vibration resistance	20g sine peak (80 to 2000Hz)
Dimensions	L x W x H 58.20 x 80.48 (over flanges) x 72.11mm (max.)
Weight	approx. 470g ±10g



### Ordering Code

D E V R 2 0 - 5 0 9 1 - S 8 - D 0 1 2 - R 1 / 3

#### Series

Coil code:  
See table 1

#### Contact material

50: T2+Ag

#### Contact arrangement

81: SPST-NO

91: SPST-NO+ Auxiliary

#### Mounting & terminations

Bottom flange mounting base

S8: M8 male stud power terminals

S9: M6 female power terminals

Coil & auxiliary contacts by flying leads

#### Coil wire length

R: 15.75" (400mm)

#### Coil wire & auxiliary contact termination

1. None

\*Other terminations to special order.

#### Version

/3: Version 3

Coil Data

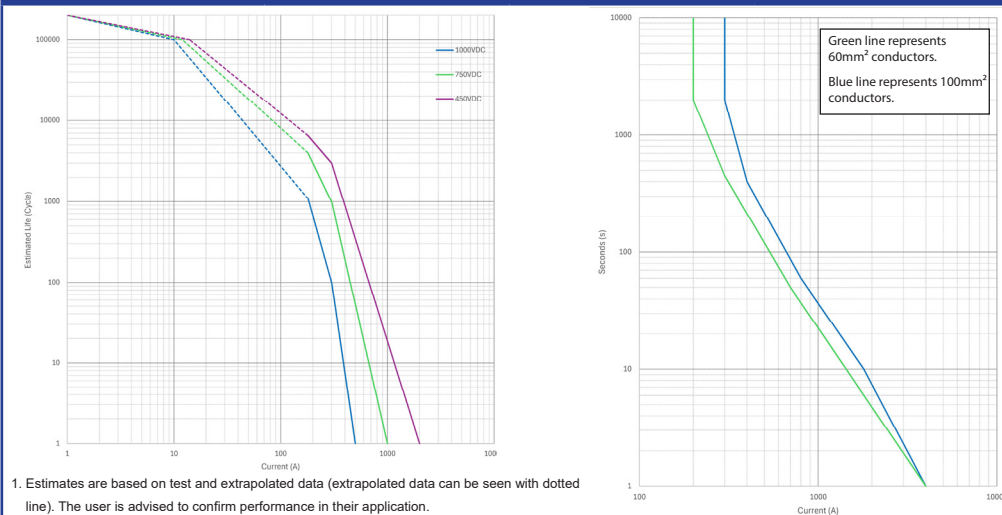
Table 1

Coil code	Nominal voltage (VDC)	Must operate voltage max. (VDC at 23°C)	Max. allowable voltage (VDC)	Must release voltage min. (VDC)	Inrush Current Max. (A)	Holding Current (Average)	Rated Coil Power (W at 23°C)
D012	12.0	9.0	14.7	1.2	3.8	420mA @ 12VDC	5W @ 12VDC
D024	24.0	18.0	28.0	2.4	2.0	200mA @ 24VDC	5W @ 24VDC

Dual coil, product has been configured with coil surge absorption circuit, engineers do not need to configure.

Electrical Performance

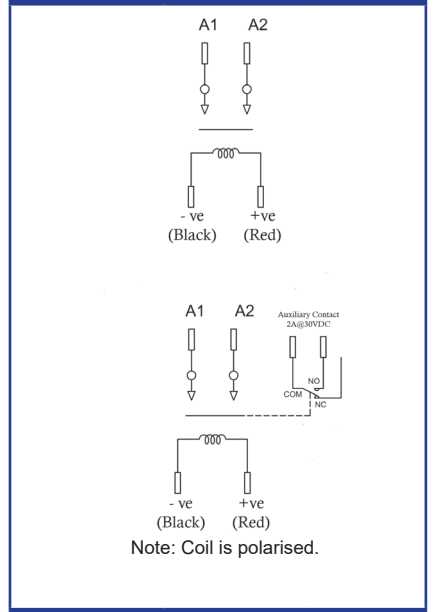
Fig. 1



- Estimates are based on test and extrapolated data (extrapolated data can be seen with dotted line). The user is advised to confirm performance in their application.
- Recommended conductor size and terminal temperature rise maximum in accordance with ISO (EN) 60947.1 70°C.
- Estimated electrical life is based on make and break current. Break only above 400A.
- All data is based on resistive loads.

Circuit Diagram

Fig. 2



Dimensions

Fig. 3

