



- Two HVDC contactors in one package
- Max. breaking current = 600A (1 time only)
- T2+Ag contacts sealed in inert gas
- Magnet arc blowout
- 2 x Auxiliary contacts
- Two different versions: Type A and Type B
- Female M5 power terminals

### Contacts

Contact arrangement	2 x SPST-NO-DM	
Contact material	T2+Ag	
Max. switching voltage	AC/DC	1000VDC
Rated load	DC1	120A 1000VDC (break only above 120A)
Max. continuous thermal current	600s	140A (with 70mm <sup>2</sup> conductors)
	60s	180A (with 70mm <sup>2</sup> conductors)
Max switching current	1 time only	600A 450VDC
Initial contact resistance	max.	1mΩ (at 1A)
Auxiliary contacts	arrangement	2 x SPST-NO (1 Form A) <sup>1</sup>
	max. current	2A @ 30VDC / 3A @ 125VAC
	min. current	100mA @ 5VDC

### Coil

Nominal voltage (see page 2)	DC	12VDC
Rated power consumption	approx.	Type "A" = 2 x 5.6W, Type "B" = 11W

### 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 / bounce time at 20°C	max.	25ms / 7ms
Release time	max.	12ms
Electrical life	ops.	Voltage and current dependent - see fig. 1
Mechanical life	ops.	1 x 10 <sup>6</sup> (Frequency = ON/OFF 0.5/0.5s)

### Environmental

Environmental sealing	Contacts & coils inside hermetically sealed cans.	
Ambient temperature	operating	-40 to +85°C
Relative humidity	5 to 85%RH	
Altitude	≤4000m	
Shock resistance	20G peak, 11ms ½ sine	
Vibration resistance	20G sine peak (80 to 2000Hz)	
Dimensions	L x W x H	93 x 58.5 x 79mm
Weight	approx.	510g±10g



### Ordering Code

D E V R 1 0 D P - 5 0 7 1 - S 9 - A 0 1 2

Series	Coil code:
	See table 1
Contact material	
50: T2+Ag	
Contact arrangement	
71: 2 x SPST-NO* + 2 x SPST-NO auxiliary contacts <sup>1</sup>	
* Polarized see page 2	
<sup>1</sup> Other auxiliary contact arrangements available by special request	
Mounting & terminations	
Bottom flange mounting base	
S9: M5 female thread power terminals	
Coil & auxiliary contacts by connector	
Two types:	
Type "A"	
Two separate coils, with a common terminal (i.e. 3 coil terminals). Each coil can be operated independently or simultaneously. HVDC contacts switch with corresponding coil. Auxiliary contacts share a common terminal and close independently according to the corresponding HVDC contact.	
Type "B"	
Two coils in parallel. (i.e. 2 coil terminals) Coils operate simultaneously only. HVDC contacts switch together at same time. Auxiliary contacts close at same time as HVDC contacts but are not connected together.	
In both types, if an HVDC contact should weld closed, the auxiliary switch for that contact only will stay closed.	

### Coil Data

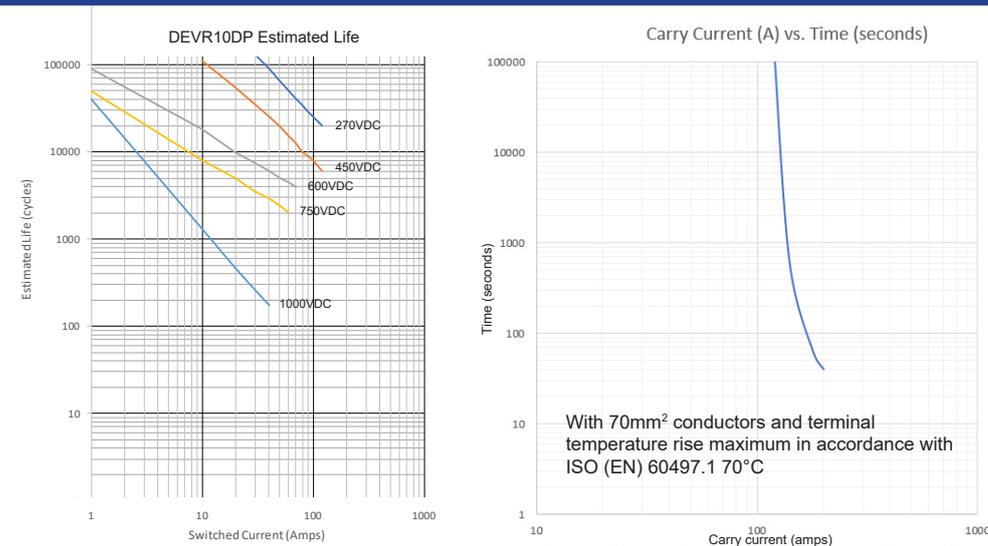
Table 1

Coil code	Nominal voltage (VDC)	Operate voltage range (VDC)	Release voltage range (VDC)	Must release voltage min. (VDC)	Rated working current (mA)	Coil resistance (at 20°C) (±5%)	Holding Power (at 20°C)
A012	12	9.0 ~ 13.2	1.2 ~ 9	1.2	460	26	5.6W
B012	12	10.2 ~ 13.2	1.2 ~ 9	1.2	923	7.5	11W

Other coils available upon special request.

### Electrical Performance

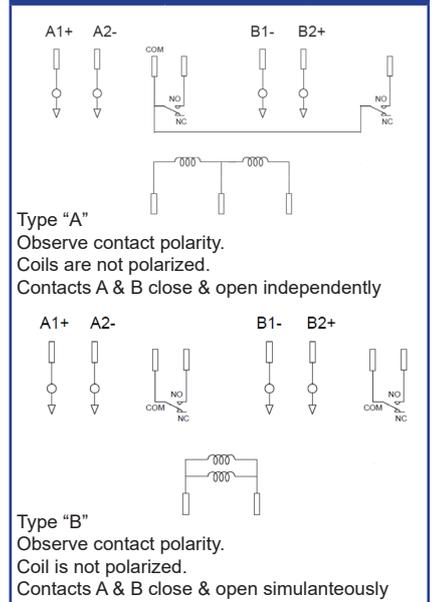
Fig. 1



Estimates are based on tests and extrapolated data. The user is advised to confirm the performance in their application.

### Circuit Diagram

Fig. 2



### Dimensions

Fig. 3

