



- HVDC 50A at 450VDC.
- Max. Switching current = 500A.
- AgSnO₂ contacts sealed in inert gas.
- Magnet arc blowout.
- Pre-charge relay.
- Female M4 power terminals.



Contacts

Contact arrangement	SPST-NO-DM	
Contact material	AgSnO ₂	
Max switching voltage	AC/DC	900VDC
Rated load (resistive, cos φ=1)	DC1	50A 450VDC
Max continuous thermal current	30 secs	150A
	10 secs	250A
Max. switching current	1 time only	500A 350VDC
Initial contact resistance	max	1mΩ (at 1A)

Coil

Rated voltage (see page 2)	DC	6 ... 72VDC
Rated power consumption	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.	12s
Electrical life	Voltage and Current Dependent - See Fig. 1	
Mechanical life	1 x 10 ⁶	
Ambient temperature	operating	-40 to +85°C
Relative humidity	5 to 85%RH	
Shock resistance	20G peak, 11ms 1/2 sine	
Vibration resistance	20G sine peak (80 to 2000Hz)	
Dimensions	L x W x H	37.2 x 51.26 (over flanges) x 47.82mm (approx.)
Weight	approx.	120g ±5g

Ordering Code

DEVRO5 - 50 61 - S8 - 1012 - R 1

Series

Contact Material

50: AgSnO₂

Contact Arrangement

61: SPST-NO

81: SPST-NO (no polarity)

Mounting & Connections

Bottom flange mounting base

S8: M4 Female power terminals

Coil by flying leads

Coil Code

See coil codes - Table 1

Coil Wire Length

R: 400mm (standard)

T: 5.9" (150mm)

Coil Wire Termination

1: None (standard)

2: Yazaki 7282-5558-10 Male

3: Molex Mini-Fit Female

Other terminations to special order

DEVR05 series

HVDC contactor 50A / 900VDC



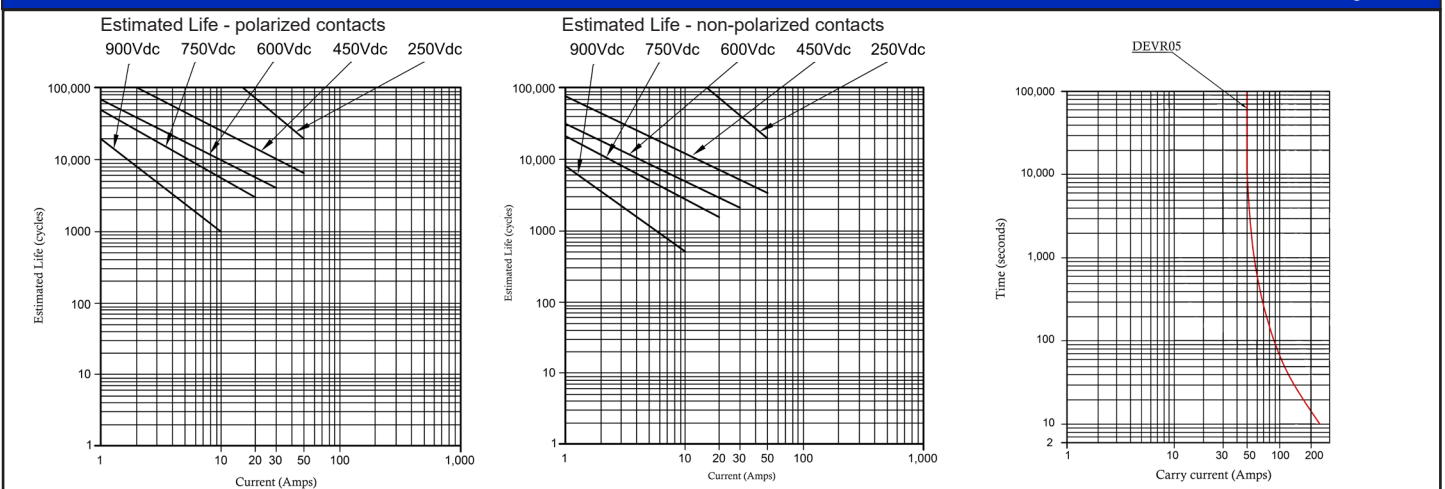
Coil Data

Table 1

Coil code	Nominal voltage (VDC)	Must operate voltage Max. (VDC@ 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 @ 20°C)
1006	6	4.5	6.6	0.6	11	545.5	3.3
1012	12	9.0	13.2	1.2	45	266.7	3.2
1024	24	18.0	26.4	2.4	167	143.7	3.45
1028	28	21.0	30.8	2.8	240	116.7	3.3
1036	36	27.0	39.6	3.6	400	90.0	3.2
1048	48	36.0	52.8	4.8	730	65.8	3.2
1072	72	54.0	79.2	7.2	1600	45.0	3.2

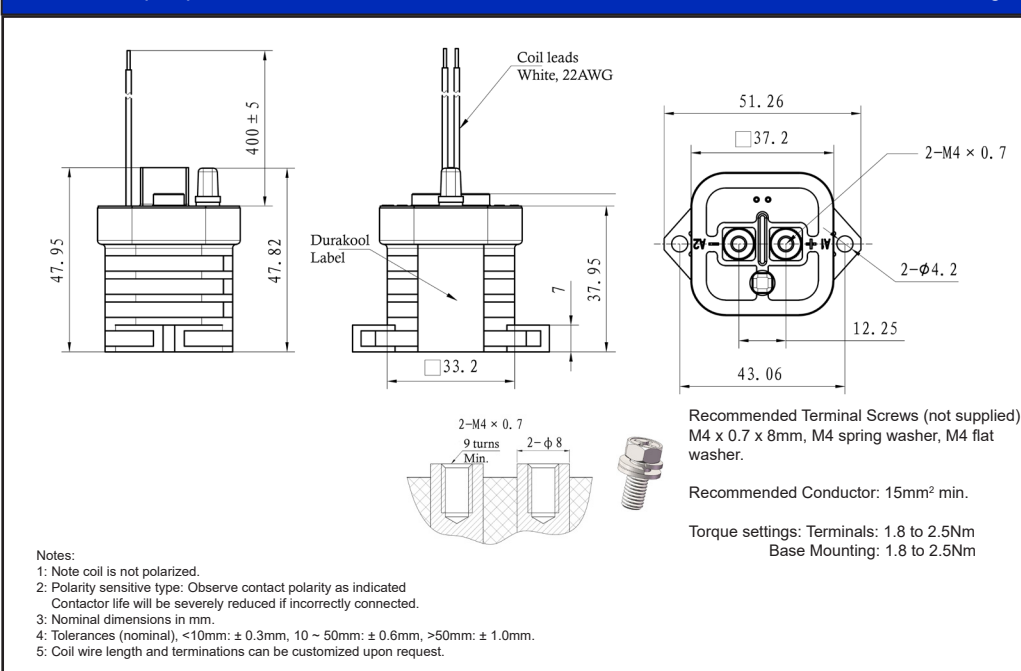
Electrical Performance

Fig 1



Dimensions (mm)

Fig 2



Circuit Diagram

Fig 3

