# DEVR10 series
## HVDC contactor 100A / 900VDC

- HVDC 100A at 450VDC.
- Max. Switching current = 600A.
- $AgSnO_2$ contacts sealed in inert gas.
- Magnet arc blowout.
- Auxiliary contact option.
- Female M5 power terminals.

CE cULus E325835 ROHS Compliant

| Contacts | | |
|---|---|---|
| Contact arrangement | | SPST-NO-DM |
| Contact material | | $AgSnO_2$ |
| Max switching voltage | AC/DC | 900VDC |
| Rated load (resistive, cos φ=1) | DC1 | 100A 450VDC |
| Max continuous thermal current | 600 secs | 140A |
| | 60 secs | 180A |
| Max switching current | 1 time only | 600A 450VDC |
| Initial contact resistance | max | 1mΩ (at 1A) |
| Auxiliary Contact (when fitted) | Arrangement | SPST-NO (1 Form A) |
| | Max. Current | 2A @ 30VDC / 3A @ 125VAC |
| | Min. Current | 100mA @ 8V |
| **Coil** | | |
| Rated Voltage (see page 2) | DC | 6 ... 72VDC |
| Rated power consumption | | 5.54W @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 / bounce time at 20°C | max | 25ms / 7ms |
| Release time | max | 12ms |
| 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 | 40 x 53.85 (over flanges) x 59.07mm |
| Weight | approx. | 190g ±5g |

### Ordering Code

DEVR10 - 50 61 - S8 - 1012 - R 1

**Series**

DEVR10

**Contact Material**

50: $AgSnO_2$

**Contact Arrangement**

61: SPST-NO*

71: SPST-NO* + Auxiliary

81: SPST-NO

* Polarized - see page 2

**Mounting & Connections**

Bottom flange mounting base

S8: M5 Female power terminals

Coil & auxiliary contacts by flying leads

**Coil Code**

See coil codes - Table 1

**Coil Wire Length**

R: 14.96" (380mm)

T: 5.9" (150mm)

**Coil Wire & Auxiliary Contact Termination**

1: None

2: Yazaki 7282-5558-10 Male

3: Molex Mini-Fit Female

Other terminations to special order

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## HVDC contactor 100A / 900VDC

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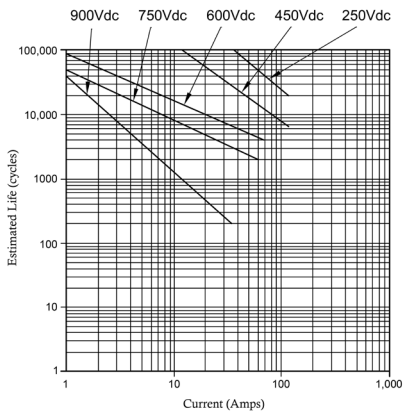
**Coil Data** Table 1

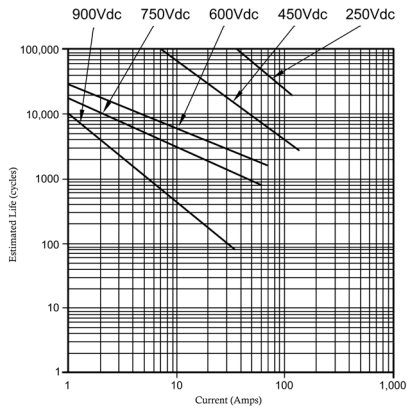
| Coil code | Nominal voltage (VDC) | Must operate voltage Max. (VDC@ 20°C) | Maximum allowable voltage (VDC) | Must release voltage min. (VDC) | Coil resistance Ω ±5% (at 20°C) | Coil Current (mA) | Coil Power (W @ 20°C) |
|---|---|---|---|---|---|---|---|
| 1006 | 6 | 4.5 | 6.6 | 0.6 | 6.3 | 952.4 | 5.71 |
| 1012 | 12 | 9.0 | 13.2 | 1.2 | 26 | 461.5 | 5.54 |
| 1024 | 24 | 18.0 | 26.4 | 2.4 | 96.4 | 249 | 5.98 |
| 1028 | 28 | 21.0 | 30.8 | 2.8 | 136 | 205.9 | 5.76 |
| 1036 | 36 | 27.0 | 39.6 | 3.6 | 227 | 158.6 | 5.71 |
| 1048 | 48 | 36.0 | 52.8 | 4.8 | 392 | 122.5 | 5.88 |
| 1072 | 72 | 54.0 | 79.2 | 7.2 | 868 | 83 | 5.97 |

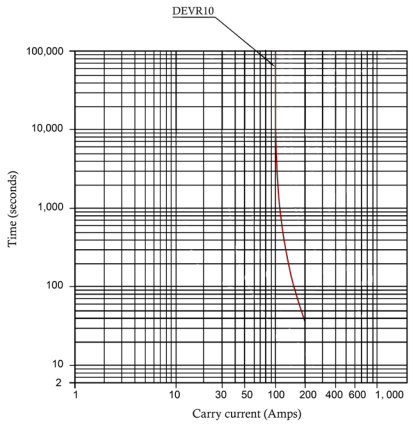
**Electrical Performance** Fig 1

Estimated Life - polarized contacts

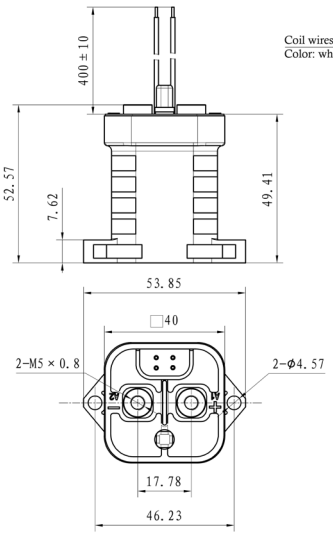


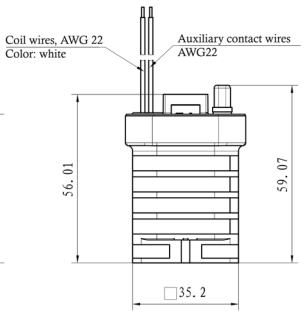

Estimated Life - non-polarized contacts

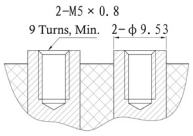



**Dimensions (mm)** Fig 2



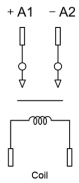

Recommended Terminal Screws (not supplied): M5 x 0.8 x 10mm, M5 spring washer, M5 flat washer.

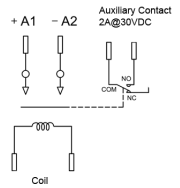
Recommended Conductor: 30mm² min

Torque settings: Terminals: 3.5 to 4.4Nm
Base Mounting: 1.8 to 2.5Nm

Notes:
1: Note coil is not polarized.
2: Polarity sensitive type: Observe contact polarity as indicated
Contactor life will be severely reduced if incorrectly connected.
3: Nominal dimensions in mm.
4: Tolerances (nominal), <10mm: ± 0.3mm, 10 ~ 50mm: ± 0.6mm, >50mm: ± 1.0mm.
5: Coil wire length and terminations can be customized upon request.

**Circuit Diagrams** Fig 3




Polarized Power Terminals shown.

Power Terminals maybe polarized or non-polarized depending upon chosen option.

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