



- HVDC 700A carry current
- Max. switching current = 3300A
- Contacts sealed in inert gas
- Magnet arc blowout
- Coil economiser as standard
- Auxiliary contact option
- Male or female power terminals

### Contacts

|                                 |  |
|---------------------------------|--|
| Contact arrangement             | SPST-NO-DM                               |
| Contact material                | T2+Ag                                    |
| Max. switching voltage          | AC/DC 1000VDC                            |
| Rated load                      | DC1 600A 1000VDC (break only above 400A) |
| Max. continuous thermal current | 1000s 700A with 300mm <sup>2</sup> cable |
|                                 | 600s 800A with 300mm <sup>2</sup> cable  |
|                                 | 60s 1000A with 300mm <sup>2</sup> cable  |
| Max switching current           | 1 time only 3300A 320VDC                 |
| Initial contact resistance      | max. 0.2mΩ (under rated current)         |
| Auxiliary contact (when fitted) | arrangement SPST-NO (1 Form A)           |
|                                 | max. current 2A @ 30VDC / 3A @ 125VAC    |
|                                 | min. current 100mA @ 5VDC                |

### Coil

|                              |                                       |
|------------------------------|---------------------------------------|
| Nominal voltage (see page 2) | DC 12 ...36VDC (with coil economiser) |
| Rated power consumption      | hold 1.7W @ 12VDC                     |

### Insulation

|                       |  |
|-----------------------|--|
| Insulation resistance | initial 100MΩ (Min.)                                     |
|                       | life end 50MΩ (Min.)                                     |
| Dielectric strength   | coil to contact 4000Vrms / 1mA / 1 min (at sea level)    |
|                       | contact to contact 4000Vrms / 1mA / 1 min (at sea level) |

### General Data

|                               |   |
|-------------------------------|---|
| Operate / bounce time at 20°C | max. 40ms / 5ms                                 |
| Release time                  | max. 20ms                                       |
| Electrical life               | ops. Voltage and current dependent - see fig. 1 |
| Mechanical life               | ops. 2 x 10 <sup>5</sup>                        |

### Environmental

|                       |           |   |
|-----------------------|-----------|---|
| Environmental sealing | IP rating | Contacts are inside hermetically sealed can.<br>economiser is protected by dust cover only. |
| Ambient temperature   | operating | -40 to +85°C  |
| Relative humidity     |           | 5 to 85%RH  |
| Shock resistance      |           | 100G peak, 11ms 1/2 sine  |
| Vibration resistance  |           | 20G sine peak (80 to 2000Hz)  |
| Dimensions            | L x W x H | 78 x 67 x 104.5mm (approx.)   |
| Weight                | approx.   | 800g  |



### Ordering Code

D E V R 4 5 - 5 0 6 1 - S 8 - 1 2 3 6 - R 1

Series

Coil code:

See table 1

Contact material

50: T2+Ag

Contact arrangement

61: SPST-NO

71: SPST-NO + Auxiliary

Mounting & terminations

Bottom flange mounting base

S8: M10 male stud power terminals

S9: M8 female power terminals

Coil & auxiliary contacts by flying leads

Coil wire length

R: 14.96" (380mm)

T: 5.9" (150mm)

Coil wire & auxiliary contact termination

1: None

2: Yazaki 7282-5558-10 Male

Other terminations to special order

### Coil Data

Table 1

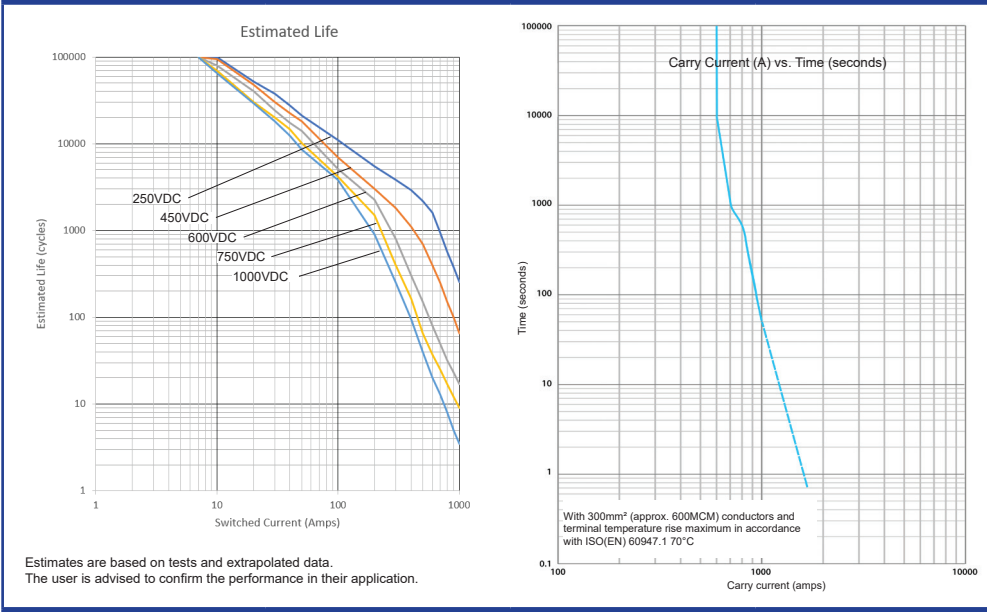
| Coil code | Nominal voltage (VDC) | Must operate voltage max. (VDC) | Max. allowable voltage (VDC) | Must release voltage min. (VDC) | Inrush current max. (A) | Hold voltage min. (VDC) | Holding current (average)   |
|-----------|-----------------------|---------------------------------|------------------------------|---------------------------------|-------------------------|-------------------------|-----------------------------|
| 1236      | 12 - 36               | 9                               | 36                           | 6                               | 2.32                    | 7.5                     | 100mA@12VDC<br>50mA @ 24VDC |

Coil economiser standard, no additional coil surge suppression required.

Other voltages available upon special request and subject to minimum quantity.

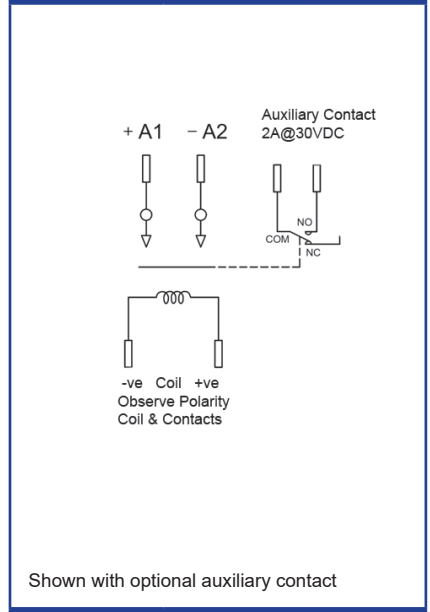
### Electrical Performance

Fig. 1



### Circuit Diagram

Fig. 2



### Dimensions

Fig. 2

