



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

- HVDC 135A at 1000VDC
- Max. switching current = 1000A
- Contacts sealed in inert gas
- Magnet arc blowout
- Auxiliary contact option
- Female M5 power terminals



RoHS  
Compliant

### Contacts

|                                 |  |
|---------------------------------|--|
| Contact arrangement             | SPST-NO-DM                               |
| Contact material                | T2+Ag                                    |
| Max. switching voltage          | AC/DC 1000VDC                            |
| Rated load                      | DC1 135A 1000VDC (break only above 135A) |
| Max. continuous thermal current | 600s 220A                                |
|                                 | 30s 490A                                 |
| Max switching current           | 1 time only 1000A 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 12~48VDC  |
| Rated power consumption      | 5.5W @ 12VDC |

### Insulation

|                       |   |
|-----------------------|---|
| Insulation resistance | initial 100MΩ (min.)                                      |
|                       | life end 50MΩ (min.)                                      |
| 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. 25ms                                       |
| 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 x 10 <sup>5</sup>                        |

### Environmental

|                      |   |
|----------------------|---|
| Environmental Seal   | IP67  |
| Ambient temperature  | operating -40 to +85°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 40 x 54 (over flanges) x 59 mm (max.) |
| Weight               | approx. 190g ± 5g                               |

### Ordering Code

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

Series

Coil code:

See table 1

Contact material

50: T2+Ag

Contact arrangement

61: SPST-NO\*

71: SPST-NO\* + Auxiliary

\* Polarised - see page 2

Mounting & terminations

Bottom flange mounting base

S8: M5 Female power terminals

Coil & auxiliary contacts by flying leads

Coil wire length

R: 15.75 (400 ±10mm) (standard)

T: 5.9" (150 ±10mm)

Coil wire & auxiliary contact termination

1: None (standard)

2: Yazaki 7282-5558-10 male, fitted to coil wires only.

3: Molex mini-fit female, fitted to coil wires only.

Other terminations to special order

Version

/1: Version 1

Coil Data

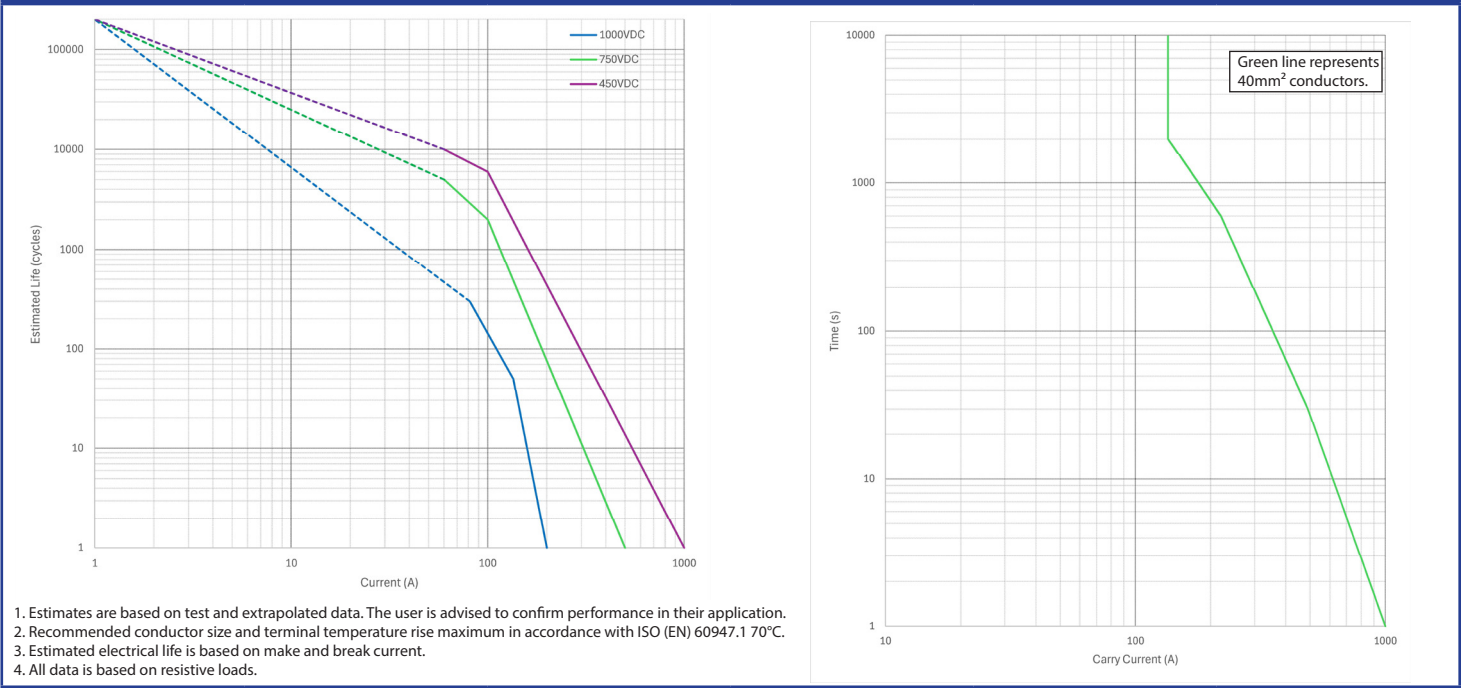
Table 1

| Coil code | Nominal voltage (VDC) | Must operate voltage max. (VDC at 23°C) | Max. allowable voltage (VDC) | Must release voltage min. (VDC) | Coil resistance $\Omega \pm 10\%$ (at 23°C) | Coil current (mA) | Coil power (W at 23°C) |
|-----------|-----------------------|---|------------------------------|---------------------------------|---|-------------------|------------------------|
| 1012      | 12.0                  | 10.2                                    | 14.4                         | 1.2                             | 26.0  | 461.5             | 5.5                    |
| 1024      | 24.0                  | 20.4                                    | 28.0                         | 2.4                             | 96.4  | 249.0             | 6.0                    |
| 1048*     | 48.0                  | 40.8                                    | 55.0                         | 4.8                             | 392.0                                       | 122.5             | 5.9                    |

\*Coil not UL approved.

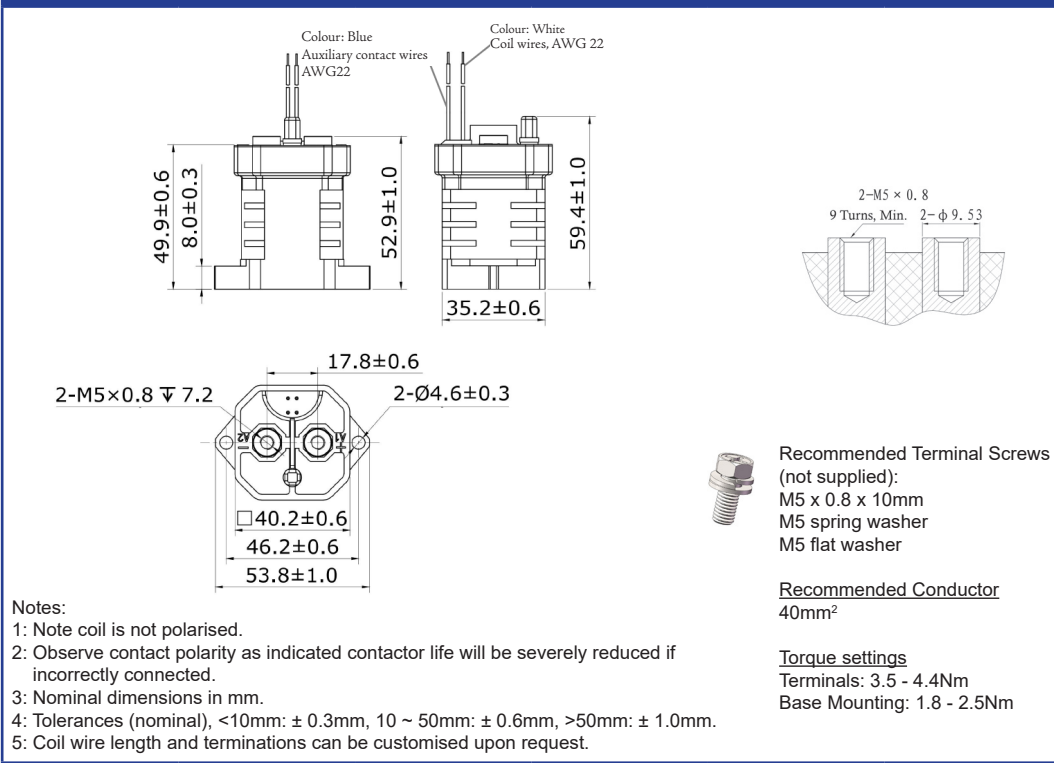
Electrical Performance

Fig. 1



Dimensions (mm)

Fig. 2



Circuit Diagram

Fig. 3

