



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

- HVDC 30A at 1000VDC
- Max. switching current = 300A
- Contacts sealed in inert gas
- Magnet arc blowout
- Pre-charge relay
- Female M4 power terminals
- Non-polarised (bi-directional) design



RoHS  
Compliant



#### Contacts

|                                        |                           |
|----------------------------------------|---------------------------|
| Contact arrangement                    | SPST-NO-DM                |
| Contact material                       | T2+Ag                     |
| Max. switching voltage                 | AC/DC 1000VDC             |
| Rated load (resistive, $\cos \phi=1$ ) | DC1 30A 1000VDC           |
| Max. continuous thermal current        | 600s 38A                  |
|                                        | 30s 65A                   |
| Max switching current                  | 1 time only 300A 450VDC   |
| Initial contact resistance             | max. 30m $\Omega$ (at 1A) |
|                                        | typ. 1m $\Omega$ (at 1A)  |

#### Coil

|                            |                   |
|----------------------------|-------------------|
| Rated voltage (see page 2) | DC 12~48VDC       |
| Rated power consumption    | hold 3.2W @ 12VDC |

#### Insulation

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| Insulation resistance | initial 100M $\Omega$ (min.)                              |
|                       | life end 50M $\Omega$ (max.)                              |
| 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. 30ms                                  |
| Bounce time at 23°C  | max. 7ms                                   |
| Release time at 23°C | max. 12ms                                  |
| Electrical life      | Voltage and current dependent - see fig. 1 |
| Mechanical life      | 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 37.2 x 51.26 (over flanges) x 47.82 (approx.) |
| Weight               | approx. 120g $\pm$ 5g                                   |

#### Ordering Code

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

##### Series

##### Coil code:

See table 1

##### Contact material

50: T2+Ag

##### Contact arrangement

81: SPST-NO (no polarity)

##### Mounting & terminations

Bottom flange mounting base

S8: M4 Female power terminals

Coil by flying leads

##### Coil wire length

R: 400mm (standard)

T: 5.9" (150mm)

##### Coil wire & auxiliary contact termination

1: None

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

Other terminations to special order

##### Version:

/1: Version 1

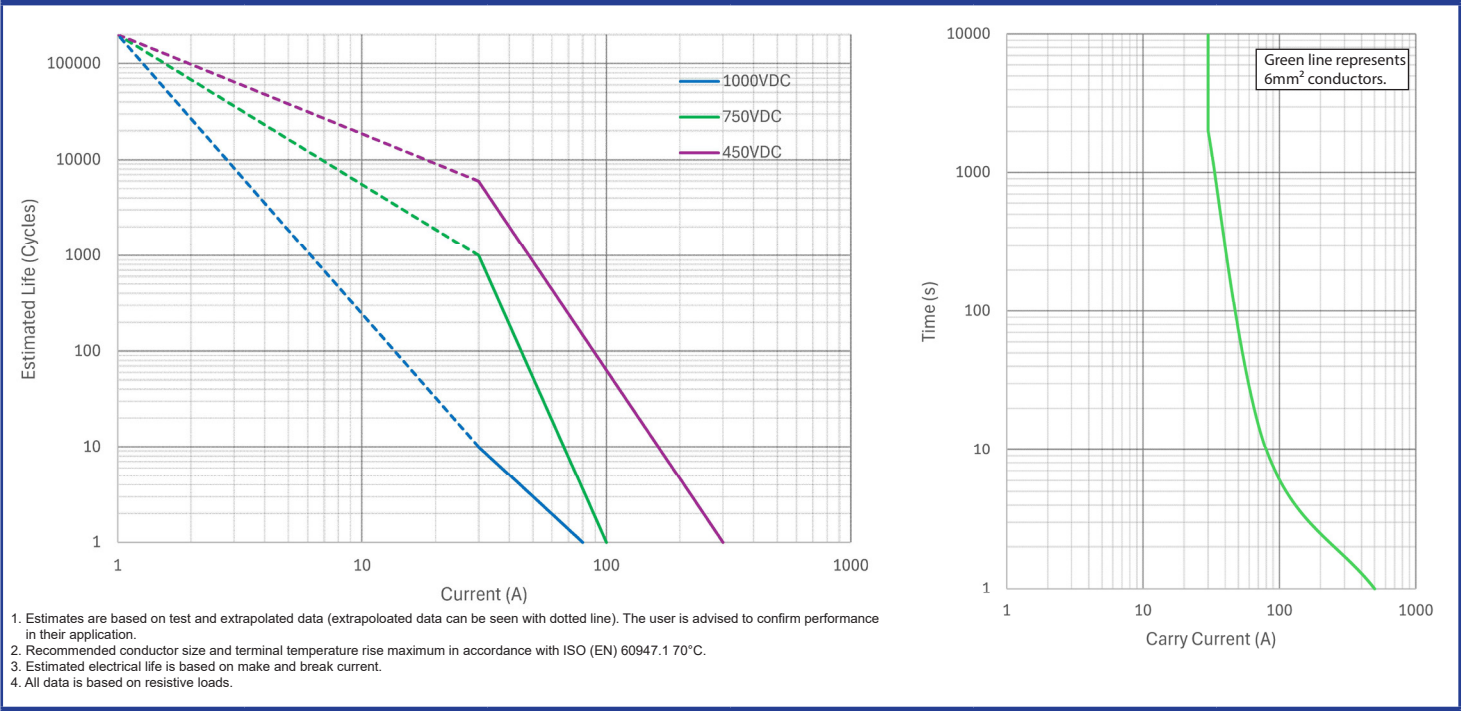
Coil Data

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                  | 9.0                                     | 14.4                         | 1.2                             | 45.0                                        | 266.7             | 3.2                    |
| 1024      | 24.0                  | 18.0                                    | 28.0                         | 2.4                             | 167.0                                       | 143.7             | 3.5                    |
| 1048      | 48.0                  | 36.0                                    | 55.0                         | 4.8                             | 630.0                                       | 76.2              | 3.7                    |

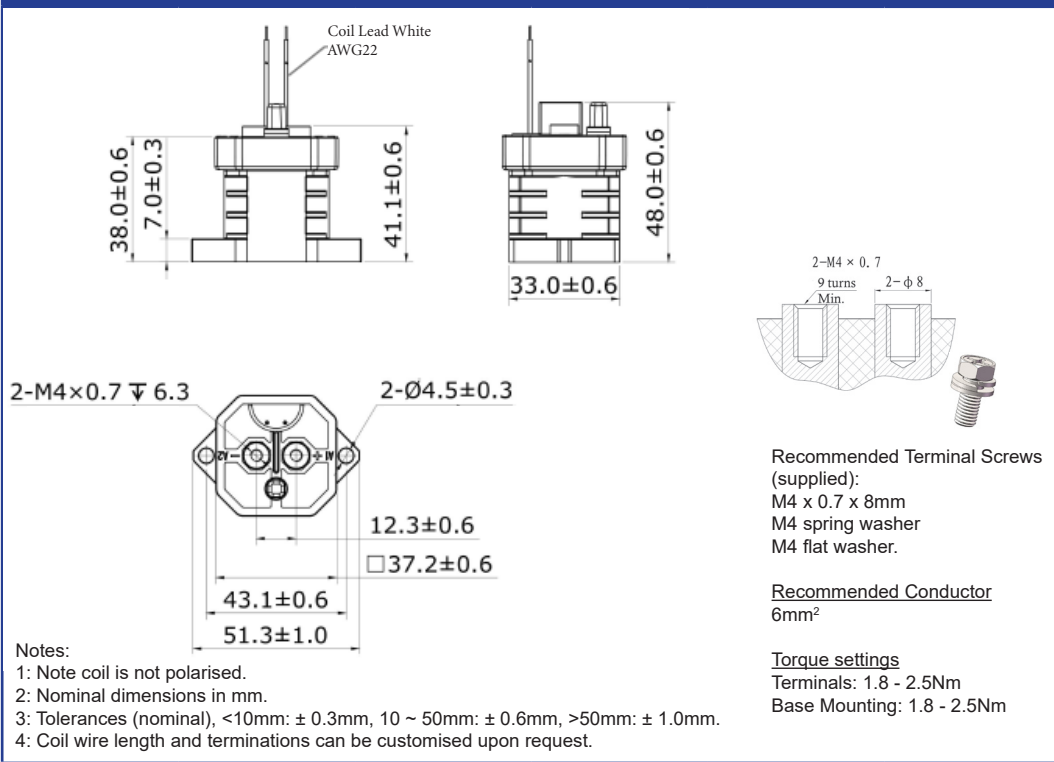
Electrical Performance

Fig. 1



Dimensions (mm)

Fig. 2



Circuit Diagram

Fig. 3

