



- HVDC 450A continuous
- Max. switching current = 2000A
- Contacts sealed in inert gas
- Magnet arc blowout
- Auxiliary contact option
- PWM Coil economiser standard
- Female M6 or M8 male power terminals



Contacts

| | | |
|---------------------------------|--------------|---|
| Contact arrangement | SPST-NO-DM | |
| Contact material | T2+Ag | |
| Max. switching voltage | AC/DC | 1000VDC |
| Rated load | DC1 | 450A 1000VDC (break only above 250A) |
| Max. continuous thermal current | 600s | 550A (with 200mm ² conductors) |
| | 60s | 700A (with 200mm ² conductors) |
| Max switching current | 1 time only | 2000A 350VDC |
| Initial contact resistance | max. | 1mΩ (at 1A) |
| Auxiliary contact (when fitted) | arrangement | SPST-NO (1 Form A), (SPST-NC by request) |
| | max. current | 2A @ 30VDC / 3A @ 125VAC |
| | min. current | 100mA @ 5VDC |

Coil

| | | |
|------------------------------|------|--|
| Nominal voltage (see page 2) | DC | 9~36VDC, 32~95VDC (with coil economiser) |
| Rated power consumption | hold | 1.56W @ 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 | ops. | Voltage and current dependent - see fig. 1 |
| Mechanical life | ops. | 2 x 10 ⁵ |

Environmental

| | | |
|-----------------------|-----------|--|
| Environmental sealing | IP rating | Contacts are inside hermetically sealed can, economiser is protected by dust cover only. |
| | | |
| 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 | 58.2 x 80.48 (over flanges) x 72.11 (max.) |
| Weight | approx. | 430g±10g |

Ordering Code

D E V R 25 - 5 0 6 1 - S 8 - 0 9 3 6 - R 1

Series

Coil code:

See table 1

Contact material

50: T2+Ag

Contact arrangement

61: SPST-NO*

71: SPST-NO* + Auxiliary

81: SPST-NO

91: SPST-NO +Auxiliary

* Polarised see page 2

Mounting & terminations

Bottom flange mounting base

S8: M8 male stud power terminals

S9: M6 female thread 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

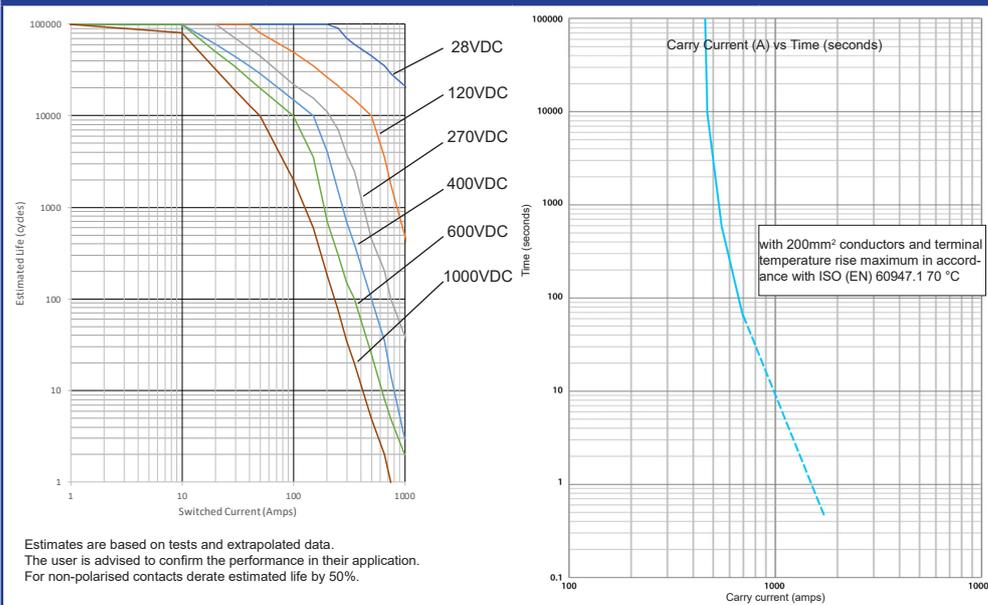
| Coil code | Nominal voltage (VDC) | Must operate voltage max. (VDC) | Max. allowable voltage (VDC) | Must release voltage min. (VDC) | Inrush current max. (A) | Hold voltage min. (VDC) | Holding current (cverage) |
|-----------|-----------------------|---------------------------------|------------------------------|---------------------------------|-------------------------|-------------------------|-----------------------------|
| 0936 | 9 - 36 | 9 | 36 | 6 | 3.8 | 7.5 | 130mA@12VDC 70mA @ 24VDC |
| 3295 | 32 ~ 95 | 32 | 95 | 18 | 1.3 | 22 | 30mA @ 48VDC |

PWM Coil economiser standard, no additional coil surge suppression required.

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

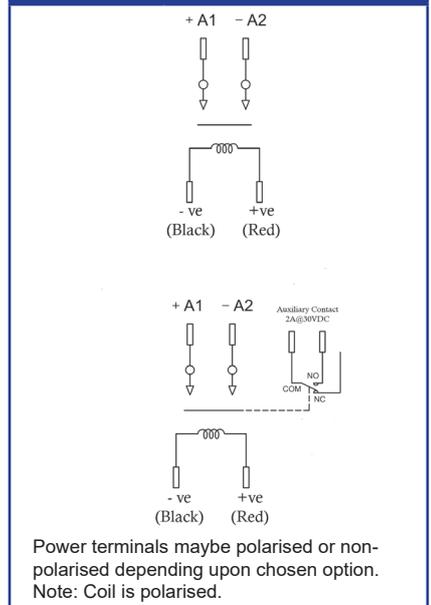
Electrical Performance

Fig. 1



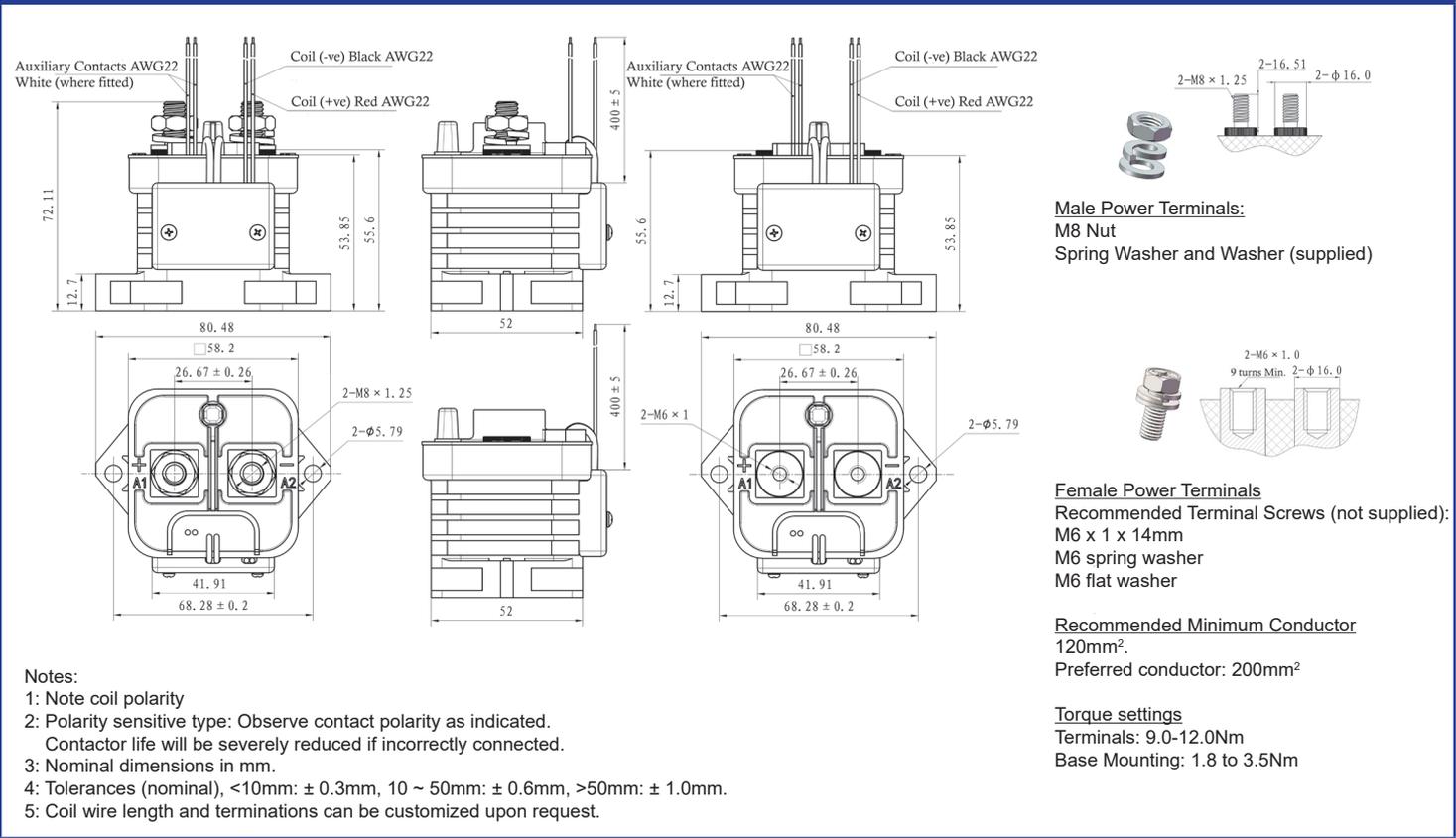
Circuit Diagram

Fig. 2



Dimensions

Fig. 3



Notes:

- Note coil polarity
- Polarity sensitive type: Observe contact polarity as indicated. Contactor life will be severely reduced if incorrectly connected.
- Nominal dimensions in mm.
- Tolerances (nominal), <10mm: ± 0.3mm, 10 ~ 50mm: ± 0.6mm, >50mm: ± 1.0mm.
- Coil wire length and terminations can be customized upon request.