



- HVDC 600A carry current
- Max. switching current = 2000A
- AgSnO<sub>2</sub> contacts sealed in inert gas
- Magnet arc blowout
- Coil economizer as standard
- Auxiliary contact option
- Female M6 or M8 Male power terminals



### Contacts

Contact arrangement	SPST-NO-DM
Contact material	AgSnO <sub>2</sub>
Max. switching voltage	AC/DC 1000VDC
Rated load (resistive, cos φ=1)	DC1 600A 1000VDC (break only above 400A)
Max. continuous thermal current	600s 700A (with 250mm <sup>2</sup> conductors)
	60s 1000A (with 250mm <sup>2</sup> 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 @ 8V

### Coil

Rated voltage (see page 2)	DC 9 ...36VDC (with coil economizer)
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
Bounce time	max. 7ms
Release time	max. 12ms
Electrical life	ops. Voltage and current dependent - see fig. 1
Mechanical life	ops. 2 x 10 <sup>5</sup>

### Environmental

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 72.11mm (max.)
Weight	approx. 430g ±10g

### Ordering Code

D E V R 4 0 - 5 0 6 1 - S 8 - 0 9 3 6 - R 1

#### Series

#### Coil code:

See table 1

#### Contact material

50: AgSnO<sub>2</sub>

#### 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 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

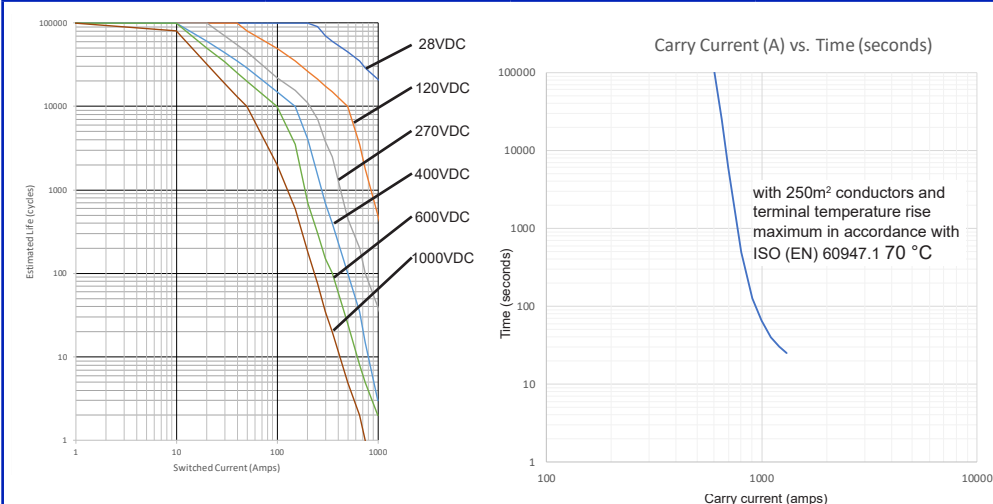
Table 1

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)
0936	9 - 36	9	36	6	3.8	7.5	130mA@12VDC 70mA @ 24VDC

Other coils available upon special request.

Electrical Performance

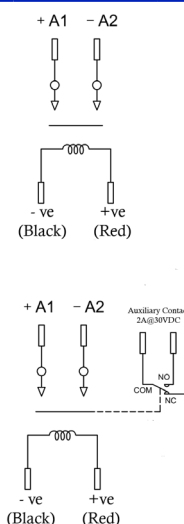
Fig. 1



Estimates are based on tests and extrapolated data.  
The user is advised to confirm the performance in their application.  
For non-polarized contacts derate estimated life by 50%.

Circuit Diagram

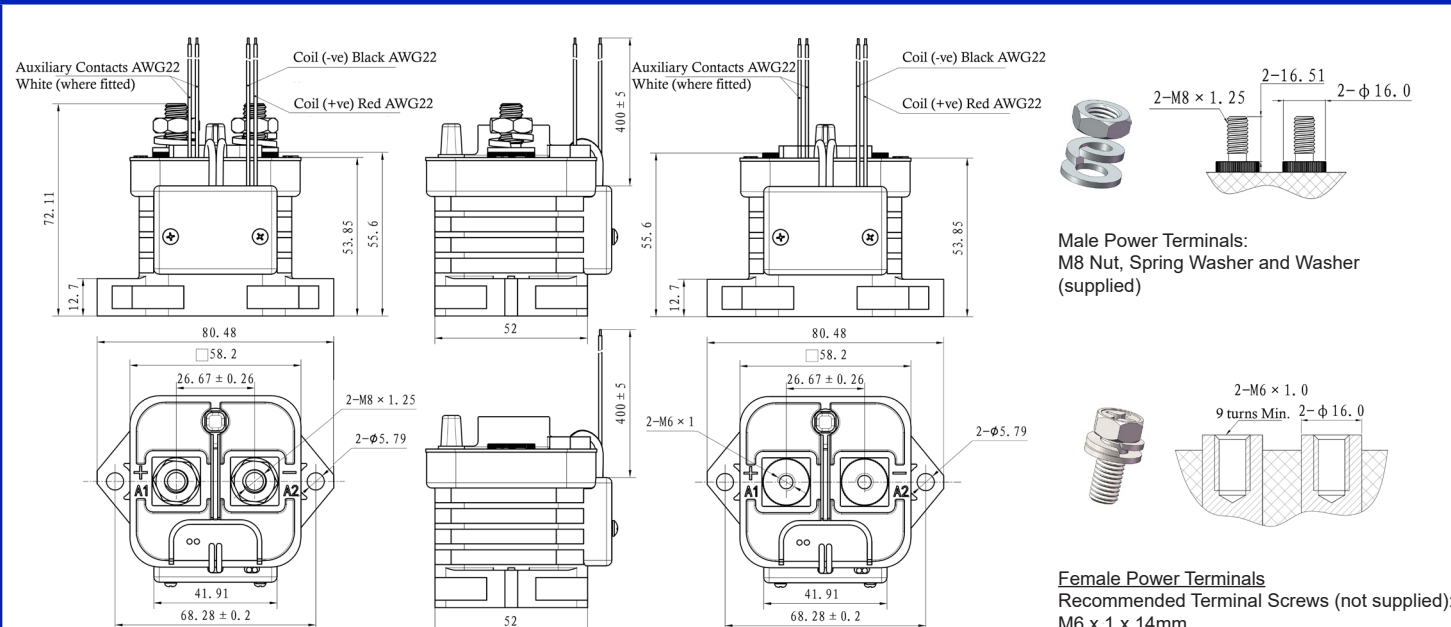
Fig. 2



Power Terminals may be polarized or non-polarized depending upon chosen option.  
Note Coil is polarized.

Dimensions

Fig. 3



Notes:

- Note coil polarity
- Polarity sensitive type: Observe contact polarity as indicated  
Contact 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.

Female Power Terminals

Recommended Terminal Screws (not supplied):  
M6 x 1 x 14mm  
M6 spring washer  
M6 flat washer

Recommended minimum Conductor  
150mm².

Preferred conductor: 250mm² or 300mm²

Torque settings

Terminals: 9.0-12.0Nm

Base Mounting: 1.8 to 3.5Nm