



- HVDC 450A continuous
- Max. Switching current = 2000A
- Contacts sealed in inert gas
- Magnet arc blowout
- Auxiliary contact option
- PWM coil economizer standard
- Female M6 or M8 Male power terminals

UK CA CE ROHS Compliant ✓

## 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 <sup>2</sup> conductors)
	60s	700A (with 200mm <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

Nominal voltage (see page 2)	DC	9~36VDC, 32~95VDC (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
Release time	max.	7ms
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, economizer 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

\* Polarized 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

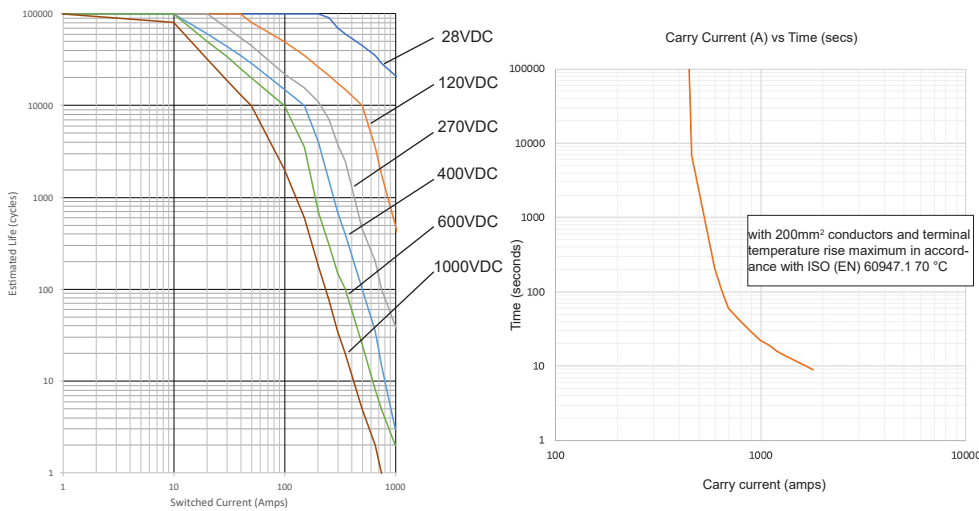
Coil code	Nominal voltage (VDC)	Must operate voltage max. (VDC)	Max. allowable voltage (VDC)	Must release voltage min. (VDC)	Inrush Current Max. (A)	Hold Voltage Min. (VDC)	Holding Current (Average)
0936	9 - 36	9	36	6	3.8	7.5	130mA@12VDC 70mA @ 24VDC
3295	32 ~ 95	32	95	18	1.3	22	30mA @ 48VDC

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

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

### Electrical Performance

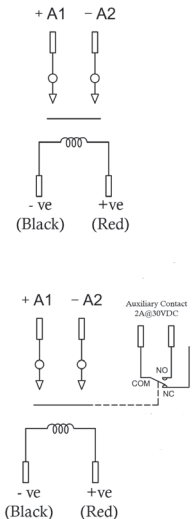
Fig. 1



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

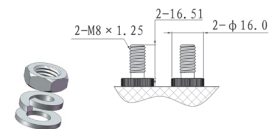
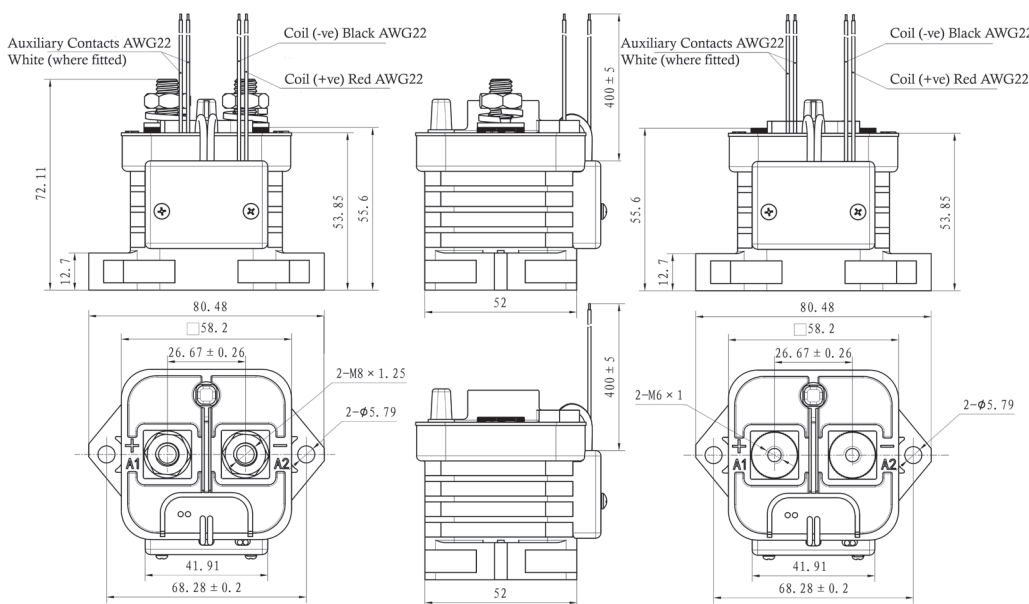
Fig. 2



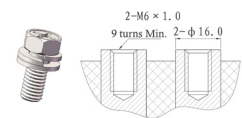
Power Terminals may be polarized or non-polarized depending upon chosen option.  
Note: Coil is polarized.

### Dimensions

Fig. 3



**Male Power Terminals:**  
M8 Nut  
Spring Washer and Washer (supplied)



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

**Recommended Minimum Conductor**  
120mm².  
Preferred conductor: 200mm²

**Torque settings**  
Terminals: 9.0-12.0Nm  
Base Mounting: 1.8 to 3.5Nm

- 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.