



- HVDC 700A carry current
- Max. switching current = 3300A
- Contacts sealed in inert gas
- Magnet arc blowout
- Coil economiser as standard
- Auxiliary contact option
- Male or female power terminals



Contacts	
Contact arrangement	SPST-NO-DM
Contact material	T2+Ag
Max. switching voltage	AC/DC 1000VDC
Rated load	DC1 600A 1000VDC (break only above 400A)
Max. continuous thermal current	1000s 700A with 300mm <sup>2</sup> cable
	600s 800A with 300mm <sup>2</sup> cable
	60s 1000A with 300mm <sup>2</sup> cable
Max switching current	1 time only 3300A 320VDC
Initial contact resistance	max. 0.2mΩ (under rated current)
Auxiliary contact (when fitted)	arrangement SPST-NO (1 Form A)
	max. current 2A @ 30VDC / 3A @ 125VAC
	min. current 100mA @ 8V

Coil	
Nominal voltage (see page 2)	DC 12 ...36VDC (with coil economiser)
Rated power consumption	hold 1.7W @ 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. 40ms / 5ms
Release time	max. 20ms
Electrical life	ops. Voltage and current dependent - see fig. 1
Mechanical life	ops. Refer to Fig. 1

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	78 x 67 x 104.5mm (approx.)
Weight	approx.	800g

### Ordering Code

D E V R 4 5 - 5 0 6 1 - S 8 - 1 2 3 6 - R 1

Series  
50: T2+Ag

Coil code:  
See table 1

Contact material  
50: T2+Ag

Contact arrangement  
61: SPST-NO  
71: SPST-NO + Auxiliary

Mounting & terminations  
Bottom flange mounting base  
S8: M10 male stud power terminals  
S9: M8 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

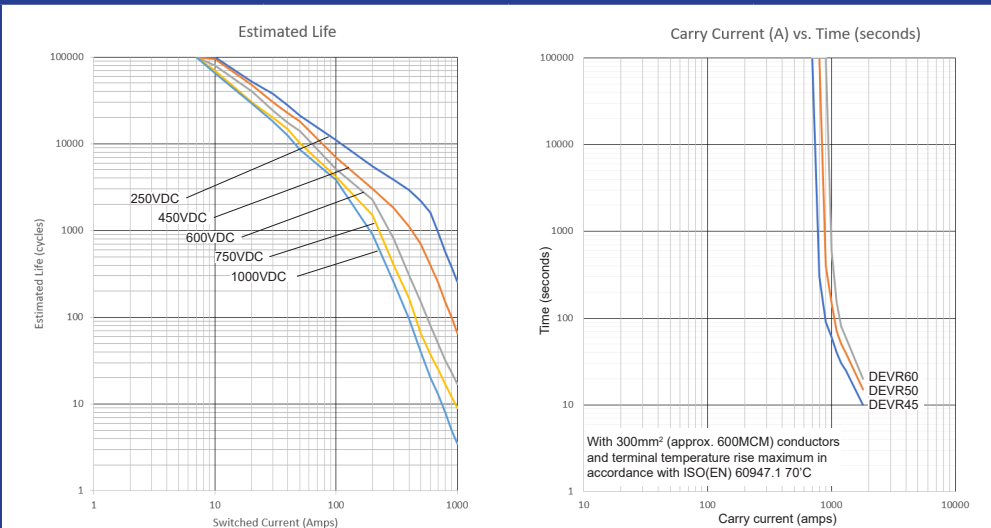
Coil code	Nominal voltage (VDC)	Must operate voltage max. (VDC)	Max. allowable voltage (VDC)	Must release voltage min. (VDC)	Inrush current max. (A)	Hold voltage min. (VDC)	Holding current (average)
1236	12 - 36	9	36	6	2.32	7.5	100mA@12VDC 50mA @ 24VDC

Coil economizer standard, no additional coil surge suppression required.

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

### Electrical Performance

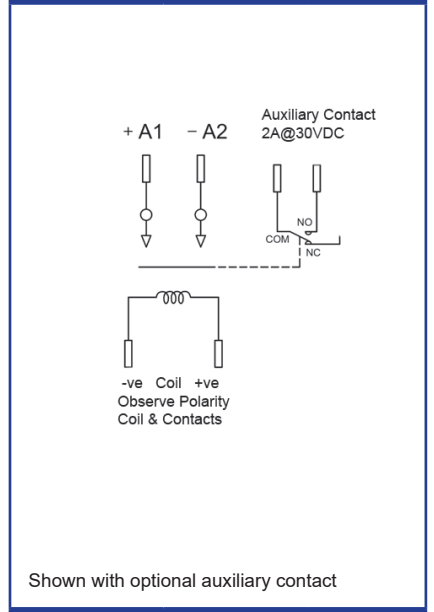
Fig. 1



Estimates are based on tests and extrapolated data. The user is advised to confirm the performance in their application.

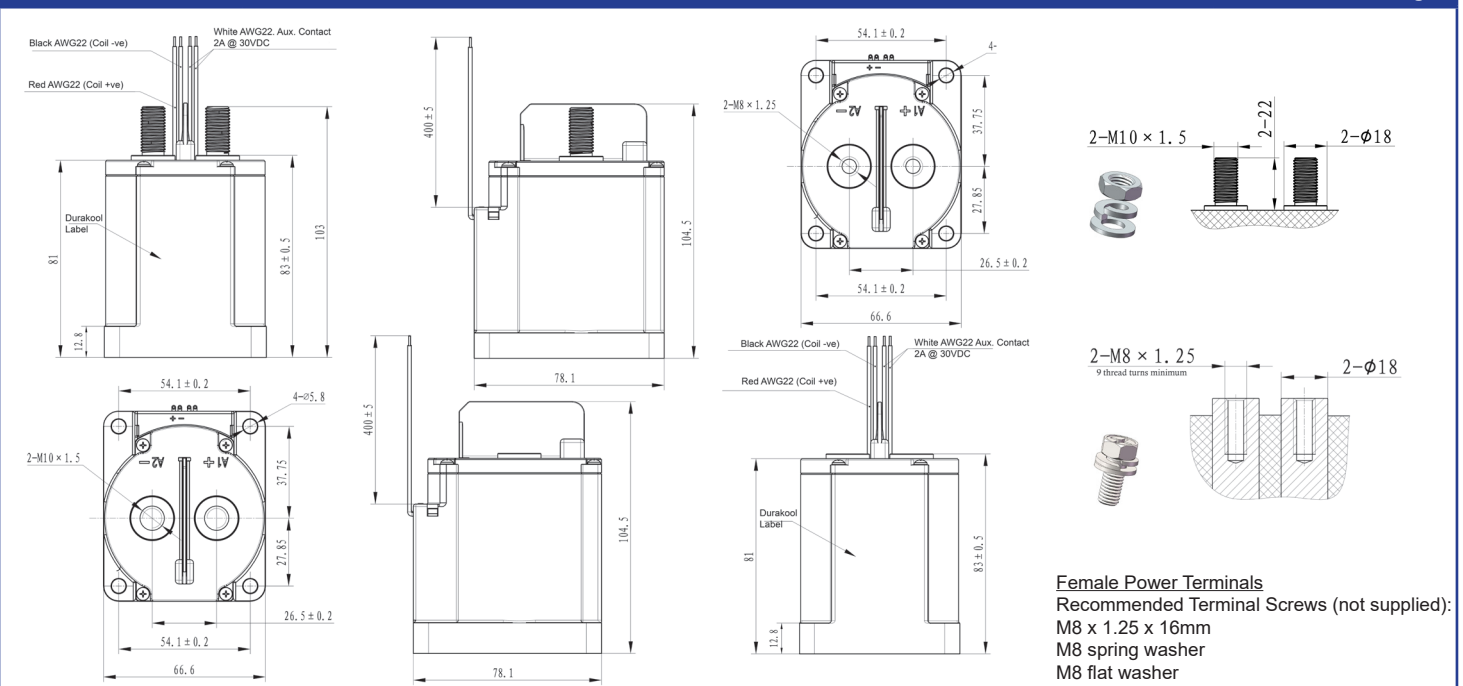
### Circuit Diagram

Fig. 2



### Dimensions

Fig. 2



- 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 customised upon request.

**Female Power Terminals**  
Recommended Terminal Screws (not supplied):  
M8 x 1.25 x 16mm  
M8 spring washer  
M8 flat washer

**Recommended Minimum Conductor**  
150mm<sup>2</sup>.  
Preferred conductor: 300mm<sup>2</sup>

**Torque Settings**  
Terminals: 9.0-12.0Nm  
Base Mounting: 1.8 to 3.8Nm