DEVR50 series
HVDC contactor 500A / 800VDC

- HVDC 500A at 800VDC.
- Max. Switching current = 3300A.
- $AgSnO_2$ contacts sealed in inert gas.
- Magnet arc blowout.
- Coil economizer as standard.
- Auxiliary contact option.
- Male or Female power terminals.

CE cULus Pending ROHS Compliant

Contacts		
Contact arrangement		SPST-NO-DM
Contact material		$AgSnO_2$
Max switching voltage	AC/DC	900VDC
Rated load (resistive, cos φ=1)	DC1	500A 800VDC
Max continuous thermal current	400 secs	600A
	40 secs	1000A
	15 secs	1500A
Max switching current	1 time only	3300A 320VDC
Initial contact resistance	max	0.2mΩ
Auxiliary Contact (when fitted)	Arrangement	SPST-NO (1 Form A)
	Max. Current	2A @ 30VDC / 3A @ 125VAC
	Min. Current	100mA @ 8V
Coil		
Rated Voltage (see page 2)	DC	12 ...36VDC (with Coil Economizer)
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		Voltage and Current Dependent - See Fig. 1
Mechanical life		Refer to Fig. 1
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

DEVR50 - 50 61 - S8 - 1236 - R 1

Series

DEVR50

Contact Material

50: $AgSnO_2$

Contact Arrangement

61: SPST-NO

71: SPST-NO + Auxiliary

Mounting & Connections

Bottom flange mounting base

S8: M10 male stud power terminals

S9: M8 female power terminals

Coil & auxiliary contacts by flying leads

Coil Code

See coil codes - Table 1

Coil Wire Length

R: 14.96" (380mm)

T: 5.9" (150mm)

Coil Wire & Auxiliary Contact Termination

1: None

2: Yazaki 7282-5558-10 Male

3: Molex Mini-Fit Female

Other terminations to special order

Specifications are liable to change without notice. E&OE.

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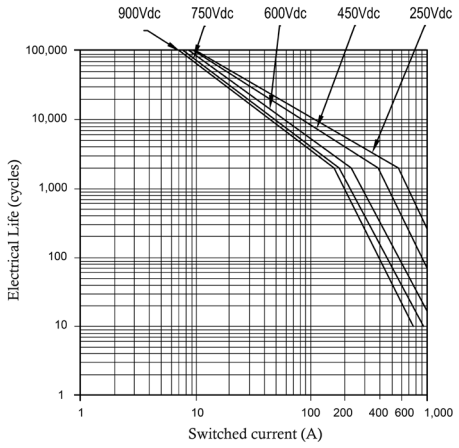
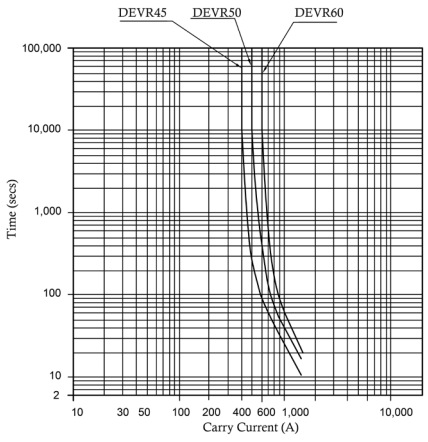
Coil Data — Table 1

Coil code	Nominal voltage (VDC)	Must operate voltage Max. (VDC)	Maximum 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

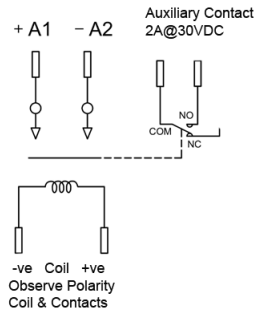
Other coils available upon special request.

Electrical Performance — Fig 1.



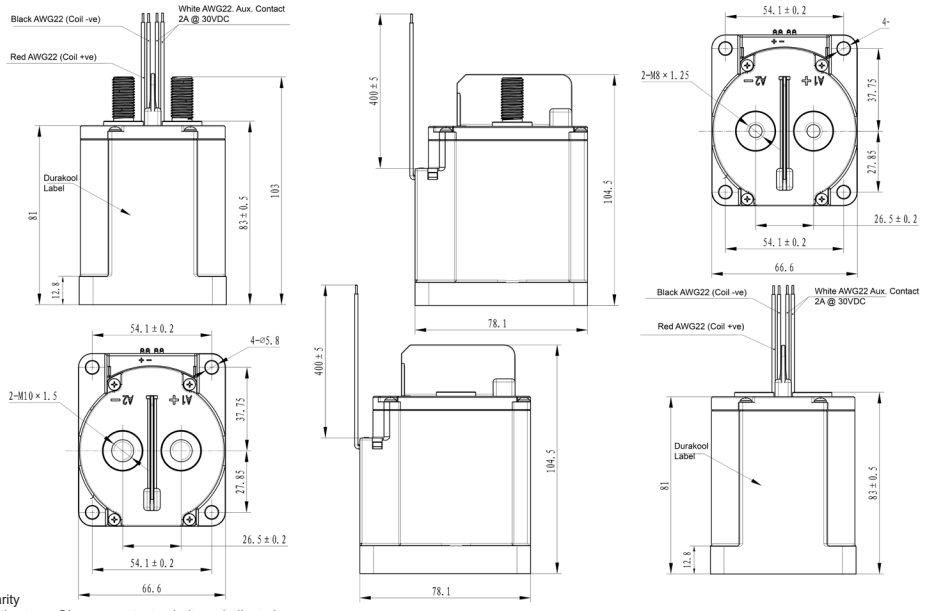


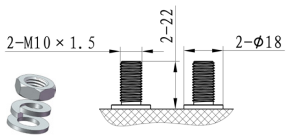
Circuit Diagram — Fig 2.



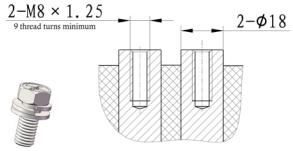
Shown with optional auxiliary contact

Dimensions (mm) — Fig 3.





Male Power Terminals:
M10 Nut, Spring Washer and Washer (supplied)



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

Recommended Conductor:
180mm² min.

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

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

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