

## DEVR40 Series HVDC Contactor 700A / 1000VDC



- HVDC 600A carry current
- 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

UK C C DI®

		CÀ CE C US Compliant				
Contacts	Ordering Code					
Contact arrangement	SPST-NO-DM					
Contact material	T2+Ag	DEVR40-5061-S8-0936-R				
Max. switching voltage AC/DC	1000VDC					
Rated load (resistive, $\cos \phi$ =1) DC1	600A 1000VDC (break only above 400A)	Series Coil code:				
Max. continuous thermal current 600s	700A (with 250mm² conductors)	See table 1				
60s	1000A (with 250mm² conductors)	Contact material				
Max switching current 1 time only	2000A 350VDC	50: T2+Ag				
Initial contact resistance max.	1mΩ (at 1A)					
Auxiliary contact (when fitted) arrangement	SPST-NO (1 Form A) (SPST-NC by request)	Contact arrangement				
max. current	2A @ 30VDC / 3A @ 125VAC	61: SPST-NO*				
min. current	100mA @ 5VDC	71: SPST-NO* + Auxiliary				
Coil		81: SPST-NO				
Nominal voltage (see page 2) DC	936VDC, 3295VDC(with coil economiser)	91: SPST-NO + Auxiliary				
Rated power consumption hold	1.56W @ 12VDC	* Polarised - see page 2				
Insulation						
Insulation resistance initial	100MΩ (Min.)	Mounting & terminations  Bottom flange mounting base  S8: M8 male stud power terminals				
life end	50MΩ (Min.)					
Dielectric strength coil to contact	2500Vrms / 1mA / 1 min (at sea level)					
contact to contac	t 2500Vrms / 1mA / 1 min (at sea level)	S9: M6 female power terminals				
General Data		Coil & auxiliary contacts by flying leads				
Operate / bounce time at 20°C max.	25ms					
Bounce time max.	7ms	Coil wire length				
Release time max.	12ms	R: 14.96" (380mm)				
Electrical life ops.	Voltage and current dependent - see fig. 1	T: 5.9" (150mm)				
Mechanical life ops.	2 x 10 <sup>5</sup>					
Environmental		Coil wire & auxiliary contact termination				
Ambient temperature operating	-40 to +85°C	1: None				
Relative humidity	5 to 85%RH	2: Yazaki 7282-5558-10 Male				
Shock resistance	20G peak, 11ms 1/2 sine	Other terminations to special order				
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					

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

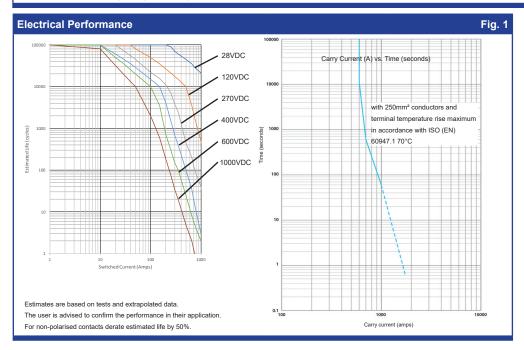


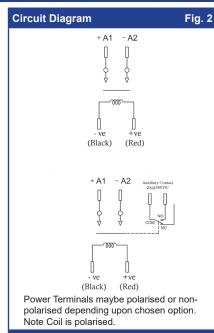
## DEVR40 Series HVDC Contactor 700A / 1000VDC

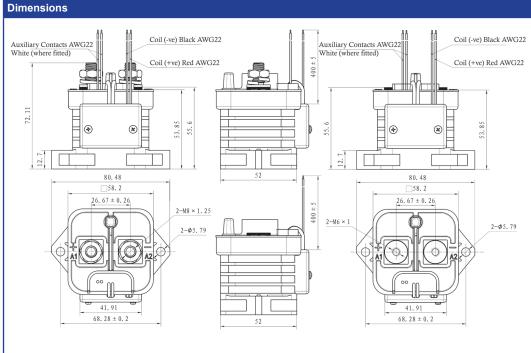
Coil Data Table 1									
Coil code	Nominal voltage (VDC)	Must operate voltage max. (VDC)	Max. allowable voltage (VDC)	Must release voltage min. (VDC)	Inrush Current Max. (A)	Hold Voltage Min. (VDC)	Holding Current (Average)		
0936	9 - 36	9	36	6	3.8	7.5	130mA@12VDC 70mA @ 24VDC		
3295	32 - 95	32	95	18	1.3	22	30mA @ 48VDC		

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

Other coils available upon special request.







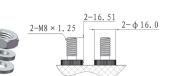
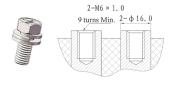


Fig. 3

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



<u>Female Power Terminals</u>
Recommended Terminal Screws (not supplied):

M6 x 1 x 14mm M6 spring washer M6 flat washer

Recommended minimum Conductor 150mm².

Preferred conductor: 250mm<sup>2</sup> or 300mm<sup>2</sup>

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

## 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 customised upon request.

Specifications are subject to change without notice. E&OE