

## DEVR40 Series HVDC Contactor 400A / 1000VDC



\*Image is for illustrative purposes only. Please refer to datasheet for detail.

- Max. switching current = 2000A
- · Contacts sealed in inert gas
- · Magnet arc blowout
- Auxiliary contact option (mechanically linked)
- Female M6 or M8 Male power terminals
- Non-polarised (bi-directional) design
- Dual coil economiser (with TVS diode protection)

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Contacts		Compliant Codes			
Contacts		Ordering Code			
Contact arrangement	SPST-NO-DM				
Contact material	T2+Ag	DEVR40-5091-S8-D012-R1/			
Max. switching voltage AC/E	C 1000VDC				
Rated load (resistive, cos φ=1)	400A 1000VDC (break only above 400A)	Series Coil code:			
Max. continuous thermal current 60	Os 540A	See table 1			
3	0s 1200A	Contact material			
Max switching current 1 time or	ly 2000A 450VDC	50: T2+Ag			
Initial contact resistance ma	x. 30mΩ (at 1A)				
ty	p. 1mΩ (at 1A)				
Auxiliary contact (when fitted) arrangeme	nt SPST-NO (1 Form A)	Contact arrangement			
max. curre	nt 2A @ 30VDC / 3A @ 125VAC	81: SPST-NO			
min. curre	nt 100mA @ 8VDC	91: SPST-NO+ Auxiliary			
Coil					
Nominal voltage (see page 2)	C 12VDC, 24VDC				
Rated power consumption ho	ld 6W @ 12VDC				
Insulation					
Insulation resistance init	al 100MΩ (Min.)	Mounting & terminations			
life e	nd 50MΩ (Max.)	Bottom flange mounting base			
Dielectric strength coil to conta	ct 3500Vrms / 10mA / 1 min (at sea level)	S8: M8 male stud power terminals			
contact to conta	act 3500Vrms / 10mA / 1 min (at sea level)	S9: M6 female power terminals			
General Data		Coil & auxiliary contacts by flying leads			
Operate time at 23°C ma	x. 30ms				
Bounce time at 23°C ma	x. 7ms	Coil wire length			
Release time at 23°C ma	x. 12ms	R: 15.75" (400mm)			
Electrical life op	s. Voltage and current dependent - see fig. 1				
Mechanical life op	s. 2 x 10 <sup>5</sup>				
Environmental		Coll wire & auxilary contact termination  1. None			
Environmental Seal (Power Contacts)	P IP67				
Ambient temperature operati	ng -40 to +85°C	*Other terminations to special order.			
stora	ge -70 to +150°C				
Relative humidity	5 to 95%RH				
Shock resistance	20g peak, 11ms 1/2 sine	<u>Version</u>			
Vibration resistance	20g sine peak (80 to 2000Hz)	/3: Version 3			
Dimensions L x W x	H 58.20 x 80.48 (over flanges) x 72.11mm (max.)				
Weight appro	x. 470g ±10g				

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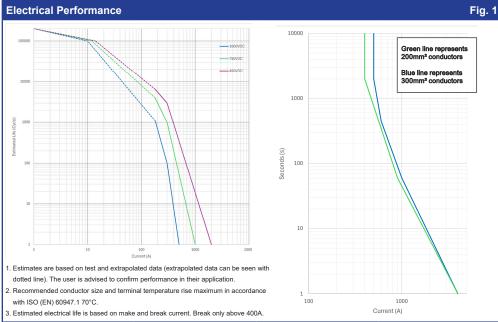
Specifications are subject to change without notice. E&OE.

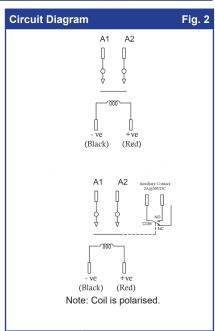


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Coil Data Table 1									
Coil code	Nominal voltage (VDC)	Must operate voltage max. (VDC at 23°C)	Max. allowable voltage (VDC)	Must release voltage min. (VDC)	Inrush Current Max. (A)	Holding Current (Average)	Rated Coil Power (W at 23°C)		
D012	12.0	9.0	14.7	1.2	3.8	420mA @ 12VDC	5W @ 12VDC		
D024	24.0	18.0	28.0	2.4	2.0	200mA @ 24VDC	5W @ 24VDC		

Dual coil, product has been configured with coil surge absoption circuit, engineers do not need to configure





**Dimensions** Fig. 3 Auxiliary Contacts AWG22 Coil (-ve) Black AWG22 Auxiliary Contacts AWG22 2-φ16.0 Coil (-ve) Black AWG22  $2-M8 \times 1.25$ Blue (where fitted) Coil (+ve) Red AWG22 Coil (+ve) Red AWG22  $72.1 \pm 1.0$ 12.0±0.6  $65.2 \pm 1.0$  $54.0 \pm 1.0$  $55.8 \pm 1.0$ Male Power Terminals: M8 Nut, Spring Washer and Washer (supplied) 26.7±0.6 52.0±1.0  $2-M6 \times 1.0$ 2-M8×1.25 2-M6×1**▼**10 9 turns Min. 2- φ 16. 0 2-Ø5.8±0.3 □57.8±1.0 Female Power Terminals 68.3±1.0 Recommended Terminal Screws (not supplied): 80.5±1.0 M6 x 1 x 14mm M6 spring washer M6 flat washer Notes: Recommended conductor 1: Nominal dimensions in mm. Minimum: 200mm<sup>2</sup> 2: Tolerances (nominal), <10mm: ± 0.3mm, 10 ~ 50mm: ± 0.6mm, >50mm: ± 1.0mm. Preferred: 250mm<sup>2</sup> 3: Coil wire length and terminations can be customised upon request. 4: All data is based on resistive load. Torque settings Terminals: 9.0 - 12.0Nm

Base Mounting: 1.7 - 4.0Nm