







- HVDC 150A continuous
- Max. switching current = 650A
- · Contacts sealed in inert gas
- Magnet arc blowout
- Auxiliary contact option
- Female M5 or M6 power terminals
- · Optional external PWM economiser

			UK	CE RoHS Compliant	
Contacts			Ordering Code	Compliant	
Contact arrangement		SPST-NO-DM			
Contact material		T2+Ag	DEVR13-5081	- S 8 - 1 0 1 2 - R 1	
Max. switching voltage	AC/DC	900VDC			
Rated load	DC1	150A 450VDC (break only above 135A)	<u>Series</u>	Coil code:	
Max. continuous thermal current 600s		200A (with 100mm² conductors)		See tables	
	60s	300A (with 100mm² conductors)	Contact material	1 & 2	
Max switching current	1 time only	650A 450VDC	50: T2+Ag		
Initial contact resistance	max.	1mΩ (at 1A)			
Auxiliary contact (when fitted)	arrangement	SPST-NO (1 Form A)	Contact arrangement		
	max. current	2A @ 30VDC / 3A @ 125VAC	61: SPST-NO		
	min. current	100mA @ 5VDC	71: SPST-NO + Auxilary		
Coil			81: SPST-NO*		
Nominal voltage (see page 2)	DC	6 72VDC / 12 to 36VDC with PWM economiser	91: SPST-NO* + Auxilary		
Rated power consumption		5.54W @ 12VDC (without PWM coil economiser)	* Not polarised see page 2		
Insulation					
Insulation resistance	initial	100MΩ (min.)	Mounting & terminations		
	life end	50MΩ (min.)	Bottom flange mounting base		
Dielectric strength	coil to contact	2500Vrms / 1mA / 1 min (at sea level)	S8: M5 Female power terminals (std. coil version only)		
	contact to contact	2500Vrms / 1mA / 1 min (at sea level)	S8: M6 Female power terminals (ext. PWM version only)		
General Data			Coil & auxiliary contacts by flying	g leads	
Operate / bounce time at 20°C	max.	25ms / 7ms			
Release time	max.	12ms	Coil wire length		
Electrical life	ops.	Voltage and current dependent - see fig. 1	R: 15.75 (400 ±10mm) (standard)		
Mechanical life	ops.	1 x 10 ⁶	T: 5.9" (150 ±10mm)		
Environmental					
Environmental sealing	IP rating	IP67 (Contactor only), IP50 (PWM module)	Coil wire & auxiliary contact termination		
Ambient temperature operating		-40 to +85°C	1: None (standard)		
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 (std. coil)	LxWxH	40 x 54 (over flanges) x 59 mm (max.)			
Dimensions (with ext. PWM)	LxWxH	47.3 x 69.5 (over flanges) x 66.7mm (max)*	* excludes external PWM module	e - See Page 3	
Weight	approx.	190g ± 5g (with std.coil) / 355g ± 5g (with PWM)			

DEVR13 012524

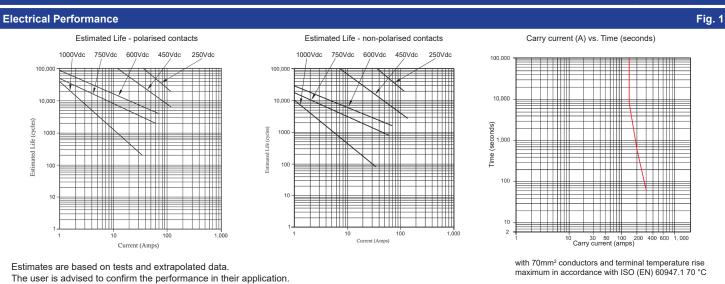
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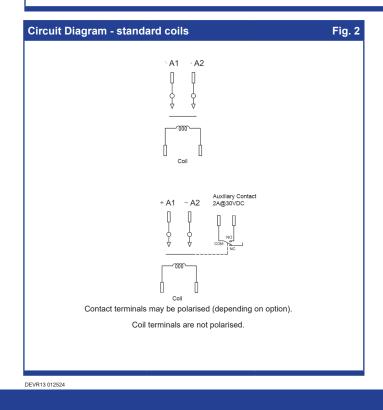


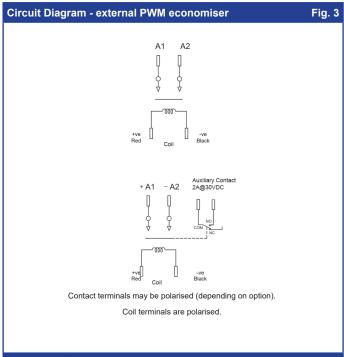
DEVR13 Series HVDC Contactor 150A / 900VDC

Coil Data Table							
Coil code	Nominal voltage (VDC)	Must operate voltage max. (VDC)	Max. allowable voltage (VDC)	Must release voltage min. (VDC)	Coil resistance Ω ±5% (at 20°C)	Coil Current (mA)	Coil Power (W at 20°C)
1006	6	4.8	7.2	0.6	6.3	952.4	5.71
1012	12	9.6	14.4	1.2	26.0	461.5	5.54
1024	24	19.2	28.8	2.4	96.4	249.0	5.98
1028	28	22.4	33.6	2.8	136.0	205.9	5.76
1036	36	28.8	43.2	3.6	227.0	158.6	5.71
1048	48	38.4	57.6	4.8	392.0	122.5	5.88
1072	72	57.6	86.4	7.2	868.0	83.0	5.97

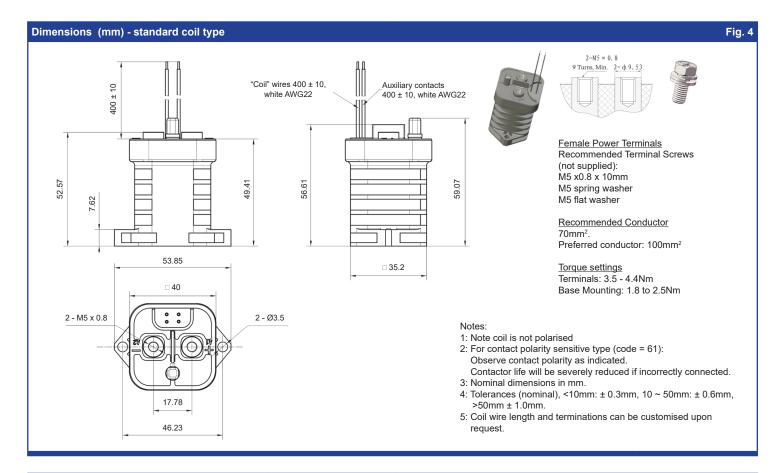
Coil Data - with external PWM economiser							
Coil code	Nominal voltage (VDC)	Must operate voltage max. (VDC)	Max. allowable voltage (VDC)	Must release voltage min. (VDC)	Inrush current at 20°C (A)	Hold Current at 20°C (A)	Polarity sensitive coil
1236	12 - 36VDC	9	36	6	3.33	0.15 (12VDC) 0.08 (24VDC)	✓





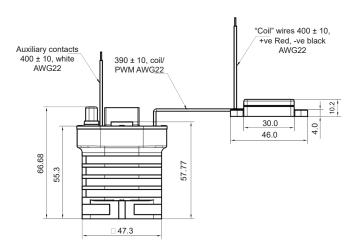


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Dimensions (mm) - external PWM economiser

Fig. 5







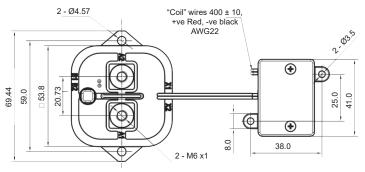


Female Power Terminals Recommended Terminal Screws (not supplied): M6 x1 x 12mm M6 spring washer M6 flat washer

Recommended Conductor 70mm² Preferred conductor: 100mm²

Torque settings Terminals: 4.5 - 6.5Nm Base Mounting: 1.8 to 2.5Nm

NB: DEVR13 with external PWM economiser is physically larger than DEVR13 with standard coil.



Notes:

- 1: Note coil is polarised
- 2: For contact polarity sensitive type (code = 61): 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.

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