

# DEVR15 Series HVDC Contactor 200A / 900VDC



- SPST-NO & SPST-NC versions
- Max. switching current = 1000A
- · Contacts sealed in inert gas
- Magnet arc blowout
- Auxiliary contact option
- Female M6 power terminals
- Optional external PWM economiser

#### See notes

			UK (	RoHS Compliant		
Contacts			Ordering Code	Compliant		
Contact arrangement		SPST-NO-DM, SPST-NC-DB				
Contact material		T2+Ag	DEVR15-5081-	S 8 - 1 0 1 2 - R 1		
Max. switching voltage	AC/DC	900VDC				
Rated load (SPST-NO-DM)	DC1	150A 450VDC (break only above 150A)	Series	Coil codes:		
Rated load (SPST-NC-DB)	DC1	150A 750VDC		See tables 1.		
Max. continuous thermal current	600s	250A (with 100mm² conductors)	Contact material	2 & 3		
	60s	400A (with 100mm² conductors)	50: T2+Ag			
Max switching current	1 time only	1000A 450VDC, 1500A 100VDC (SPST-NC)				
Initial contact resistance	max.	1mΩ (at 1A)	Contact arrangement			
Auxiliary contact (when fitted)	arrangement	SPST-NO (1 Form A), (SPST-NC upon request)	81: SPST-NO-DM*			
	max. current	2A @ 30VDC / 3A @ 125VAC	82: SPST-NC-DB*			
	min. current	100mA @ 5VDC	91: SPST-NO-DM* + NO Auxiliary	,		
Coil			92: SPST-NC-DB* + NO Auxiliary			
Nominal voltage (see page 2)	DC	6 72VDC (SPST-NC-DB: 12VDC, 24VDC only)	* Not polarised see page 2			
Rated power consumption		5.76W @ 12VDC (SPST-NO-DM)				
Insulation			Mounting & terminations			
Insulation resistance initial		100MΩ (min.)	Bottom flange mounting base			
	life end	50MΩ (min.)	S8: M6 Female power terminals			
Dielectric strength coil to contact		2500Vrms / 1mA / 1 min (at sea level)	Coil & auxiliary contacts by flying leads			
со	ntact to contact	2500Vrms / 1mA / 1 min (at sea level)				
General Data			Coil wire length			
Operate / bounce time at 20°C	max.	30ms / 7ms	R: 15.75" (400 ±10mm)			
Release time	max.	20ms	T: 5.9" (150 ±10mm)			
Electrical life	ops.	Voltage and current dependent - see fig. 1				
Mechanical life (SPST-NO-DM)	ops.	1 x 10 <sup>6</sup>	Coil wire & auxiliary contact termin	nation		
Mechanical life (SPST-NC-DB)	ops	2 x 10 <sup>5</sup>	1: None			
Environmental			2: Yazaki 7282-5558-10 Male			
Environmental sealing	IP rating	IP67 (Contactor only), IP50 (PWM module)	Other terminations to special order	r		
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	LxWxH	53.8 x 69.4 (over flanges) x 66.7 mm (max.)				
Weight	approx.	355g±10g				

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



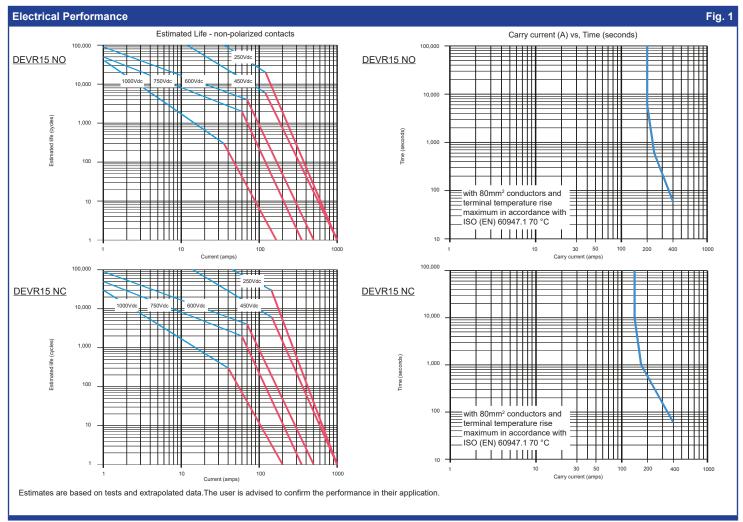


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Coil Data: SPST-NO-DM Table 1							
Coil code	Nominal voltage (VDC)	Must operate voltage max. (VDC)	Max. allowable voltage (VDC)	Must release voltage min. (VDC)	Coil resistance Ω ±5% (at 20°C)	Coil Current (mA)	Coil Power (W at 20°C)
1006	6	4.8	7.2	0.6	6.3	952.4	5.71
1012	12	9.6	14.4	1.2	25.0	480.0	5.76
1024	24	19.2	28.8	2.4	120.0	200.0	4.80
1028	28	22.4	33.6	2.8	134.0	209.0	5.86
1036	36	28.8	43.2	3.6	230.0	156.5	5.63
1048	48	38.4	57.6	4.8	410.0	117.1	5.97
1072	72	57.6	86.4	7.2	870.0	82.8	5.96

Coil Data - with external PWM economiser: SPST-NO-DM Table								
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)	✓	

Coil Data: SPST-NC-DB 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)
1012	12	9.0	13.2	1.2	23.0	522.0	6.26
1024	24	18.0	26.4	2.4	95.0	250.0	6.0

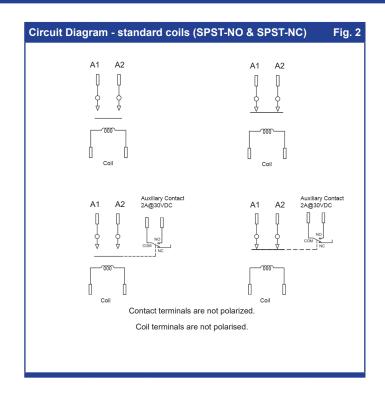


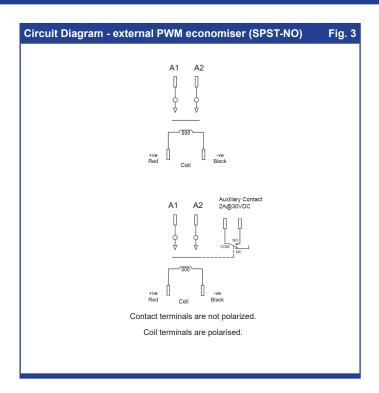
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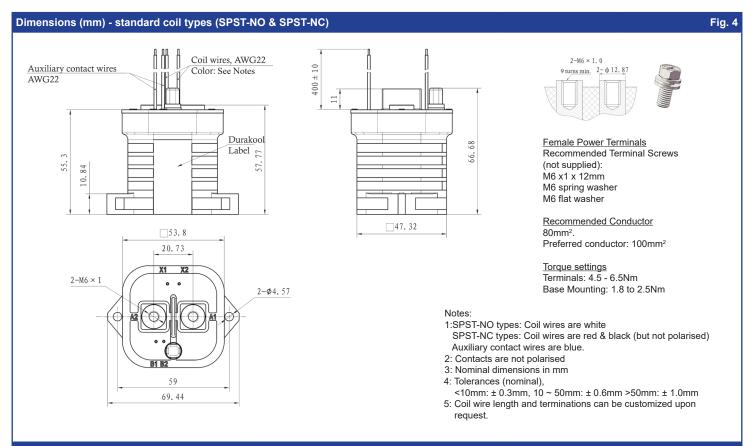


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