

### DEVR60 Series HVDC Contactor 1000A / 1000VDC



- HVDC 1000A carry current
- Max. switching current = 3300A
- Contacts sealed in inert gas
- Magnet arc blowout
- Coil economiser as standard
- Auxiliary contact option
- Male or female power terminals

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Contacts			Ordering Code			
Contact arrangement		SPST-NO-DM	_			
Contact material		T2+Ag	D E V R 6 0 - 5 0 6 1 - S 8 - 1 2 3 6 -			
Max. switching voltage	AC/DC	1000VDC				
Rated load	DC1	600A 1000VDC (break only above 600A)	Series Coil code:			
Max. continuous thermal current	600s	1000A (with 300mm <sup>2</sup> conductors)	See table 1			
	60s	1000A (with 200mm <sup>2</sup> conductors)	Contact material			
	20s	1500A (with 300mm <sup>2</sup> conductors)	50: T2+Ag			
Max switching current	1 time only	3300A 320VDC				
Initial contact resistance	max.	$0.2m\Omega$ (under rated current)	Contact arrangement			
Auxiliary contact (when fitted)	arrangement	SPST-NO (1 Form A)	61: SPST-NO			
	max. current	2A @ 30VDC / 3A @ 125VAC	71: SPST-NO + Auxiliary			
	min. current	100mA @ 5VDC				
Coil			Mounting & terminations			
Nominal voltage (see page 2)	DC	1236VDC (with coil economiser)	Bottom flange mounting base			
Rated power consumption	hold	1.2W @ 12VDC	S8: M10 male stud power terminals			
Insulation			S9: M8 female power terminals			
Insulation resistance	initial	100MΩ (Min.)	Coil & auxiliary contacts by flying leads			
	life end	50MΩ (Min.)				
Dielectric strength	coil to contact	4000Vrms / 1mA / 1 min (at sea level)	Coil wire length			
	contact to contact	4000Vrms / 1mA / 1 min (at sea level)	R: 14.96" (380mm)			
General Data			T: 5.9" (150mm)			
Operate / bounce time at 20°C	max.	40ms / 5ms				
Release time	max.	20ms	Coil wire & auxiliary contact termination			
Electrical life	ops.	Voltage and current dependent - see fig. 1	1: None			
Mechanical life	ops.	2 x 10 <sup>5</sup>	2: Yazaki 7282-5558-10 Male			
Environmental						
Environmental sealing	IP rating	Contacts are inside hermetically sealed can,	Other terminations to special order			
		economiser is protected by dust cover only.				
Ambient temperature	operating	-40 to +85°C				
Relative humidity		5 to 85%RH				
Shock resistance		20G peak, 11ms 1/2 sine				
Vibration resistance		100G sine peak (80 to 2000Hz)				
Dimensions	L x W x H	78 x 67 x 104.5mm (approx.)				
Weight	approx.	800g				

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

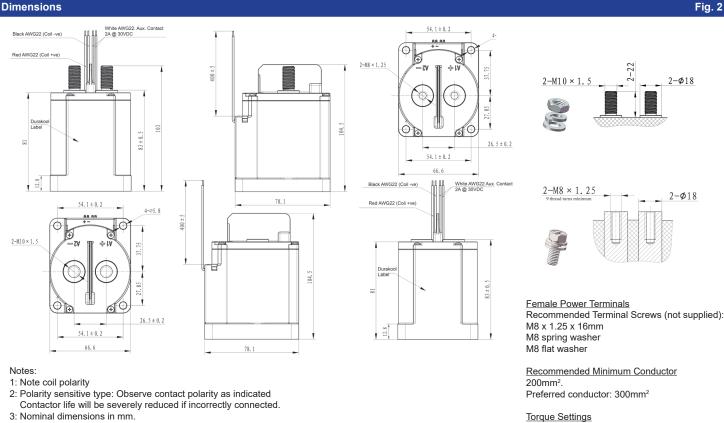
# DURAKOOL

## **DEVR60** Series HVDC Contactor 1000A / 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)			
1236	12 - 36	9	36	6	2.32	7.5	100mA@12VDC 50mA @ 24VDC			
Coil economiser standard, no additional coil surge suppression required.										
Other voltages available upon special request and subject to minimum quantity.										

#### **Electrical Performance** Fig. 1 Circuit Diagram Fig. 2 1000 Estimated Life 1000 Time (seconds) Current (A) Auxiliary Contact 2A@30VDC + A1 - A2 10000 250VDC 100 ¢ 450VDC cvcles) 600VDC Time (seconds) Ĥ 750VDC nated Life ( 1000VDC 10 000 stim -ve Coil +ve Observe Polarity Coil & Contacts With 300mm<sup>2</sup> (approx. 600MCM) conductors and terminal temperature rise maximum in accordanc with ISO(EN) 60947.1 70°C Switched Current (Amps) Estimates are based on tests and extrapolated data. The user is advised to confirm the performance in their application 1000 Carry current (amps) Shown with optional auxiliary contact

#### Dimensions



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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Terminals: 9.0-12.0Nm

Base Mounting: 1.8 to 3.8Nm