

DEVR01 Series HVDC Contactor 10A / 1000VDC



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

- HVDC 10A at 1000VDC
- Max. switching current = 300A
- Contacts sealed in inert gas
- Magnet arc blowout
- Pre-charge relay
- Female M4 power terminals
- Non-polarised (bi-directional) design

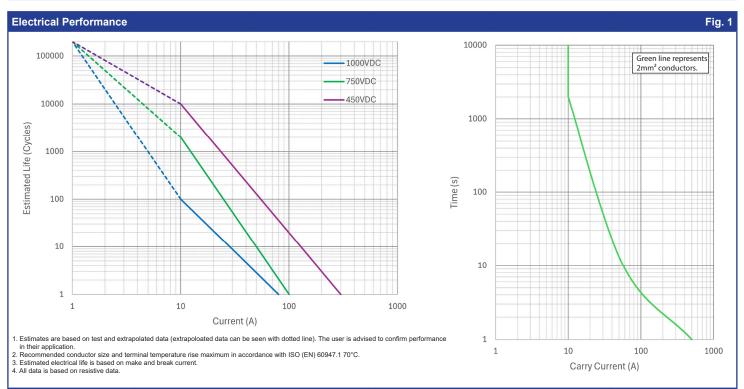
			CE RoHS Compliant			
Contacts			Ordering Code			
Contact arrangement		SPST-NO-DM				
Contact material		T2+Ag	DEVR01-5081-S8-1024-R1/			
Max. switching voltage	AC/DC	1000VDC				
Rated load (resistive, cos φ=1)	DC1	10A 1000VDC	Series Coil code:			
Max. continuous thermal current	600s	18A	See table 1			
	30s	45A	Contact material			
Max switching current	1 time only	300A 450VDC	50: T2+Ag			
Initial contact resistance	max.	30mΩ (at 1A)				
	typ.	1mΩ (at 1A)				
Coil			Contact arrangement			
Rated voltage (see page 2)	DC	12~48VDC	81: SPST-NO (no polarity)			
Rated power consumption	hold	3.2W @ 12VDC				
Insulation						
Insulation resistance	initial	100MΩ (min.)	Mounting & terminations			
	life end	50MΩ (max.)	Bottom flange mounting base S8: M4 Female power terminals			
Dielectric strength	coil to contact	3500Vrms / 10mA / 1 min (at sea level)				
contact to contact		3500Vrms / 10mA / 1 min (at sea level)	Coil by flying leads			
General Data						
Operate time at 23°C	max.	30ms	Coil wire length			
Bounce time at 23°C	max.	7ms	R: 400mm (standard)			
Release time at 23°C max.		12ms	T: 5.9" (150mm)			
Electrical life		Voltage and current dependent - see fig. 1				
Mechanical life		2 x 10 ⁵	Coil wire & auxiliary contact termination			
Environmental			1: None			
Environmental Seal		IP67	2: Yazaki 7282-5558-10 Male, fitted to coil wires only.			
Ambient temperature	operating	-40 to +85°C	Other terminations to special order			
Relative humidity		5 to 95%RH				
Shock resistance		20G peak, 11ms 1/2 sine				
Vibration resistance		20G sine peak (80 to 2000Hz)	Version:			
Dimensions	LxWxH	37.2 x 51.26 (over flanges) x 47.82 (approx.)	/1: Version 1			
Weight	approx.	120g ±5g				

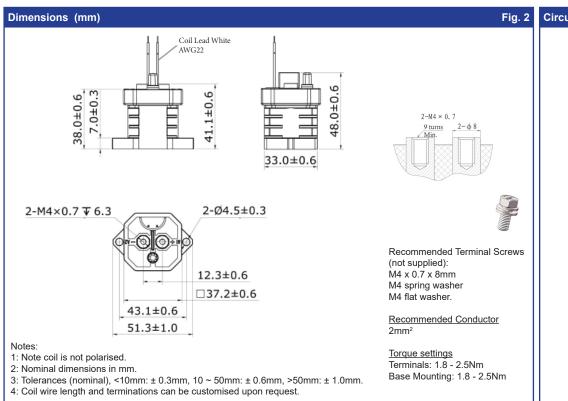
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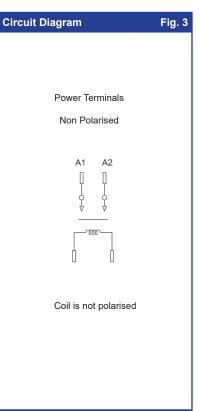


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Coil Data Table										
Coil code	Nominal voltage (VDC)	Must operate voltage max. (VDC at 23°C)	Max. allowable voltage (VDC)	Must release voltage min. (VDC)	Coil resistance Ω ±10% (at 23°C)	Coil Current (mA)	Coil power (W at 23°C)			
1012	12.0	9.0	14.4	1.2	45.0	266.7	3.2			
1024	24.0	18.0	28.0	2.4	167.0	143.7	3.5			
1048	48.0	36.0	55.0	4.8	630.0	76.2	3.7			







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