

DEVR03 Series HVDC Contactor 30A / 1000VDC



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

- HVDC 30A 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	D E V R 0 3 - 5 0 8 1 - S 8 - 1 0 2 4 - R 1 / 1			
Max. switching voltage A0	/DC 1000VDC				
Rated load (resistive, cos φ=1)	DC1 30A 1000VDC	Series Coil code:			
Max. continuous thermal current	00s 38A	See table 1			
	30s 65A	Contact material			
Max switching current 1 time	only 300A 450VDC	50: T2+Ag			
Initial contact resistance	nax. 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	nold 3.2W @ 12VDC				
Insulation					
Insulation resistance	nitial 100MΩ (min.)	Mounting & terminations			
life	end 50MΩ (max.)	Bottom flange mounting base			
Dielectric strength coil to co	tact 3500Vrms / 10mA / 1 min (at sea level)	S8: M4 Female power terminals			
contact to co	ntact 3500Vrms / 10mA / 1 min (at sea level)	Coil by flying leads			
General Data					
Operate time at 23°C	nax. 30ms	Coil wire length			
Bounce time at 23°C	nax. 7ms	R: 400mm (standard)			
Release time at 23°C	nax. 12ms	T: 5.9" (150mm)			
Electrical life	Voltage and current dependent - see fig. 1				
Mechanical life	2 x 10 ⁵ (ON : OFF = 1s : 9s)	Coil wire & auxiliary contact termination			
Environmental		1: None			
Environmental Seal	IP67	2: Yazaki 7282-5558-10 Male, fitted to coil wires only.			
Ambient temperature oper	-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)	<u>Version:</u>			
Dimensions L x V	x H 37.2 x 51.26 (over flanges) x 47.82 (approx.)	/1: Version 1			
Weight ap	rox. 120g ±5g				

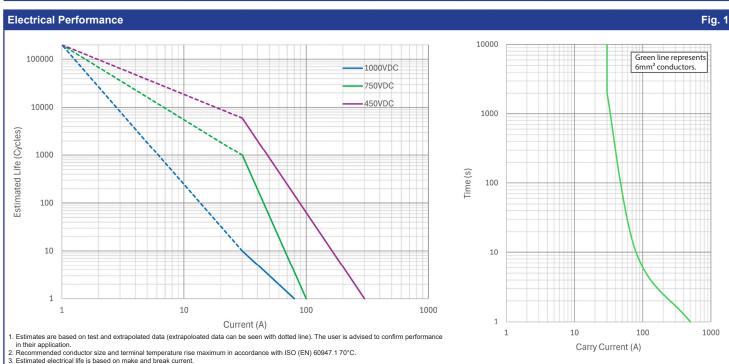
Specifications are subject to change without notice. E&OE.





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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	13.2	1.2	45.0	266.7	3.2		
1024	24.0	18.0	26.4	2.4	167.0	143.7	3.5		
1048	48.0	36.0	52.8	4.8	630.0	76.2	3.7		





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