



Max. switching current = 2000A

- Contacts sealed in inert gas
- Magnet arc blowout
- Auxiliary contact option (mechanically linked)
- Female M6 or M8 Male power terminals
- Non-polarised (bi-directional) design
- Dual coil economiser (with TVS diode protection)

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

		CE CULE305753 RoHS Compliant	
Contacts		Ordering Code	
Contact arrangement	SPST-NO-DM		
Contact material	T2+Ag	D E V R 4 0 - 5 0 9 1 - S 8 - D 0 1 2 - R 1 / 3	
Max. switching voltage AC/DC	1000VDC		
Rated load (resistive, cos φ=1) DC1	400A 1000VDC (break only above 400A)	Series Coil code:	
Max. continuous thermal current 600s	540A	See table 1	
30:	1200A	Contact material	
Max switching current 1 time only	2000A 450VDC	50: T2+Ag	
Initial contact resistance max	30mΩ (at 1A)		
typ	1mΩ (at 1A)		
Auxiliary contact (when fitted) arrangemen	SPST-NO (1 Form A)	Contact arrangement	
max. curren	2A @ 30VDC / 3A @ 125VAC	81: SPST-NO	
min. curren	100mA @ 8VDC	91: SPST-NO+ Auxiliary	
Coil			
Nominal voltage (see page 2) DC	12VDC, 24VDC		
Rated power consumption hold	6W @ 12VDC		
Insulation			
Insulation resistance initia	100MΩ (Min.)	Mounting & terminations	
life end	50MΩ (Max.)	Bottom flange mounting base	
Dielectric strength coil to contac	3500Vrms / 10mA / 1 min (at sea level)	S8: M8 male stud power terminals	
contact to contact	t 3500Vrms / 10mA / 1 min (at sea level)	S9: M6 female power terminals	
General Data		Coil & auxiliary contacts by flying leads	
Operate time at 23°C max	30ms		
Bounce time at 23°C max	7ms	Coil wire length	
Release time at 23°C max	12ms	R: 15.75" (400mm)	
Electrical life ops	Voltage and current dependent - see fig. 1		
Mechanical life ops	2 x 10 ⁵	Ostiludes & surflags surface to main attack	
Environmental		Coil wire & auxilary contact termination 1. None	
Environmental Seal (Power Contacts) IF	IP67		
Ambient temperature operating	-40 to +85°C	*Other terminations to special order.	
storage	-70 to +150°C		
Relative humidity	5 to 95%RH		
Shock resistance	20g peak, 11ms 1/2 sine	Version	
Vibration resistance	20g sine peak (80 to 2000Hz)	/3: Version 3	
Dimensions L x W x H	58.20 x 80.48 (over flanges) x 72.11mm (max.)		

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

DURAKOOL

DEVR40 Series HVDC Contactor 400A / 1000VDC

Must release voltage min. (VDC)	Inrush Current Max. (A)	Holding Current (Average)	Rated Coil Power (W at 23°C)
1.2	3.8	500mA @ 12VDC	6W @ 12VDC
2.4	2.0	250mA @ 24VDC	6W @ 24VDC
	voltage min. (VDC) 1.2 2.4	voltage min. (VDC) Inrush Current Max. (A) 1.2 3.8	voltage min. (VDC)Infusin Current Max. (A)Current (Average)1.23.8500mA @ 12VDC2.42.0250mA @ 24VDC

Dual coil, product has been configured with coil surge absoption circuit, engineers do not need to configure.

Circuit Diagram Electrical Performance Fig. 2 Fig. 1 A1 A2 10000 Green line represents 200mm² conductors ç Blue line represents 300mm² conductors 000 1000 Ó (Black) (Red) 100 A1 A2 Ç 10 ത്ത 1. Estimates are based on test and extrapolated data (extrapolated data can be seen with ŀνε (Black) (Red) dotted line). The user is advised to confirm performance in their application 2. Recommended conductor size and terminal temperature rise maximum in accordance Note: Coil is polarised. 100 1000 with ISO (EN) 60947.1 70°C. Current (A) . Estimated electrical life is based on make and break current. Break only above 400A Dimensions Fig. 3 2-16.51 Auxiliary Contacts AWG22 Coil (-ve) Black AWG22 Auxiliary Contacts AWG22 Coil (-ve) Black AWG22 2-¢16.0 Blue (where fitted) $2-M8 \times 1.25$ Blue (where fitted) Coil (+ve) Red AWG22 Coil (+ve) Red AWG22 72.1±1.0 12.0±0.6 65.2±1.0 54.0 ± 1.0 55.8±1.0 Male Power Terminals: M8 Nut, Spring Washer and Washer (supplied) 52.0±1.0 26.7±0.6 $2-M6 \times 1.0$ 2-M8×1.25 2-M6×1∓10 9 turns Min. 2- φ 16. 0 2-Ø5.8±0.3 Œ □57.8±1.0 Female Power Terminals 68.3±1.0 Recommended Terminal Screws (not supplied): 80.5±1.0 M6 x 1 x 14mm M6 spring washer M6 flat washer Notes: Recommended conductor 1: Nominal dimensions in mm. Minimum: 200mm² 2: Tolerances (nominal), <10mm: ± 0.3mm, 10 ~ 50mm: ± 0.6mm, >50mm: ± 1.0mm. Preferred: 250mm² 3: Coil wire length and terminations can be customised upon request. 4: All data is based on resistive load. Torque settings Terminals: 9.0 - 12.0Nm Base Mounting: 1.7 - 4.0Nm

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