

UK C C . E . RoHS



- Normally closed (1D) contacts
- Rated load: 50A at 48VDC
- M6 power terminations
- Battery storage applications
- Electric vehicles and DC motors

Contacts	Ordering Code			
Contact arrangement	SPST-NC-DB (1D)			
Contact material	AgCuO	DSC05D - 4 0 3 1 - 3 8 - 1 0 1 2 -		
Max. switching voltage DC	48VDC			
Rated load (resistive $\cos \varphi$ =1) DC1	50A 48VDC	Series Coil code:		
Continuous thermal current max.	50A	See table 1		
Terminal temperature rise above ambient	<70°C. (IEC EN60947, GB14/140484)	Contact arrangement		
Voltage drop	≤80mV @ 50A	4031: SPST-NC-DB		
Coil				
Nominal voltage DC	12, 24, 48, 60VDC - see table 1	Body style		
Rated power consumption max.	12W	38: Enclosed, M6 Male stud power terminals		
Working duty	Continuous			
Insulation		Accessory options		
Insulation resistance initial	100MΩ (Min.) @500VDC	Blank: No options		
life end	50MΩ (Min.)	M: Dust-proof sealing ring		
Dielectric strength coil to contact	1000Vrms (50/60Hz) / <1mA / 1 min (at sea level)			
contact to contact	1000Vrms (50/60Hz) / <1mA / 1 min (at sea level)	NB:		
General Data		Mounting orientation: The DSC05D may be mounted horizontally, but if mounted		
Operate time inc. bounce at 20°C	<40ms	vertically, the coil should be positioned downwards, with the		
Release time	<40ms	terminals uppermost.		
Electrical life (at rated load) ops.	20,000 operations			
Mechanical life ops.	1 x 10 ⁵			
Environmental				
Ambient temperature operating	-25°C to +40°C			
Relative humidity	20 to 98%RH (at 20°C)			
Shock resistance	≤4g, (60 ~ 100ops/min)			
Vibration resistance	≤3g 0.5mm (1 to 50Hz)			
Dimensions L x W x H	57.5 x 56 x 38.05 mm			
Weight approx.	175g			

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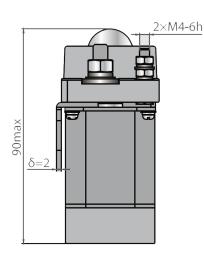
DURAKOOL®

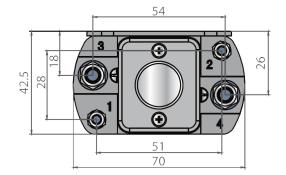
DSC05D Series LVDC NC Contactor 50A / 48VDC

Coil Data	Table 1				
Coil code	Nominal voltage (VDC) U₅	Working voltage range (V)	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	Holding current (A)
1012	12	0.85Us ~ 1.1Us	8.4	1.2	≤ 0.9
1024	24		16.8	2.4	≤ 0.5
1048	48		33.6	4.8	≤ 0.25
1060	60		42.0	6.0	≤ 0.15

Dimensions

2×04.5



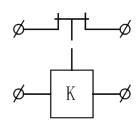


Dimensions in mm

Connections

Fig. 2

Fig. 1



Specifications are subject to change without notice. E&OE