

NOT FOR NEW DESIGNS



- Normally closed (1D) contacts
- Rated load: 400A at 48VDC
- Double coil economiser
- Auxiliary contact option
- M10 power terminations
- Battery storage applications
- Electric vehicles and DC motors



Contacts							
Contact arrangement	SPST-NC-DB						
Contact material	AgCuO						
Max. switching voltage	DC 48VDC						
Rated load (resistive $\cos \phi=1$)	DC1 400A 48VDC						
Continuous thermal current	max. 400A						
Terminal temperature rise above ambient	<70°C. (IEC EN60947, GB14/140484)						
Voltage drop	≤80mV @ 400A						
Auxiliary contact (when fitted)	<table border="0"> <tr> <td>arrangement</td> <td>SPST-NO + SPST-NC</td> </tr> <tr> <td>max. current</td> <td>5A @ 24VDC / 2A @ 48VDC</td> </tr> <tr> <td>min. current</td> <td>100mA @ 5VDC</td> </tr> </table>	arrangement	SPST-NO + SPST-NC	max. current	5A @ 24VDC / 2A @ 48VDC	min. current	100mA @ 5VDC
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Coil	
Nominal voltage	DC 12, 24, 48, 60VDC - see table 1
Nominal "on hold" power consumption	max 10W
Working duty	Continuous

Insulation		
Insulation resistance	initial	100MΩ (Min.) @500VDC
	life end	50MΩ (Min.)
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)

General Data	
Operate time inc. bounce at 20°C	<50ms
Release time	<50ms
Electrical life (at rated load)	ops. 50,000 (resistive)
Mechanical life	ops. 1 x 10 ⁵

Environmental	
Ambient temperature	operating -40°C to +65°C
Relative humidity	20 to 90%RH
Shock resistance	≤4g, (60 ~ 100ops/min)
Vibration resistance	≤3.5g sine peak (10 to 200Hz)
Dimensions	L x W x H 108 x 65 x 104mm (excluding aux.switch)
Weight	approx. 1020g

Ordering Code

DSC40D - 4 0 3 1 - 3 8 - 1 0 1 2 - -

Series

Coil code:

See table 1

Contact arrangement

4031: SPST-NC-DB

Body style

38: Enclosed, M10 Male stud power terminals

Accessory options

Blank: No options

S: Auxiliary switch

M: Dust-proof sealing ring

Power terminal options

Blank: Standard - 17mm length

L: Extended terminals - 27mm length

NB:

Mounting orientation:

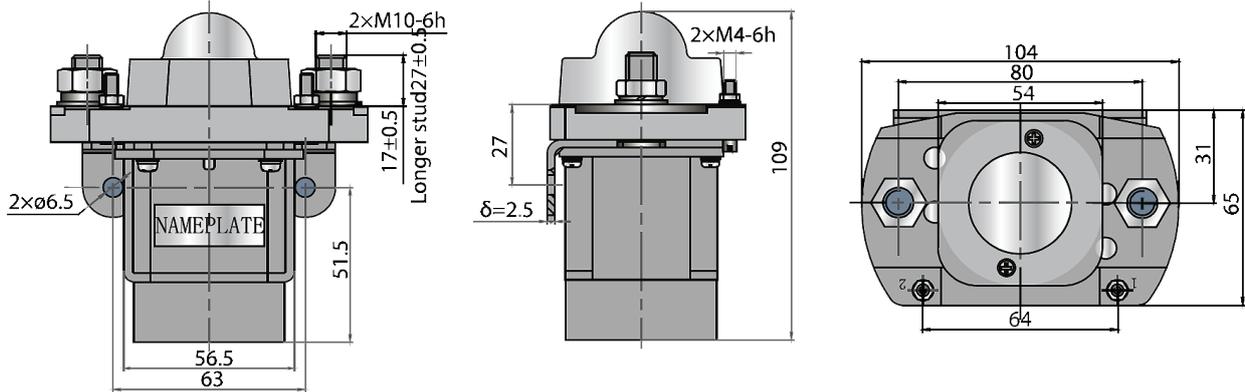
The DSC40D may be mounted horizontally, but if mounted vertically, the coil should be positioned downwards, with the terminals uppermost.

Coil Data						Table 1
Coil code	Nominal voltage (VDC) U_s	Working voltage range (V)	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	Starting current (A)	Holding current (A)
1012	12	0.85 U_s ~ 1.1 U_s	8.4	1.2	≤ 9.0	≤ 0.75
1024	24		16.8	2.4	≤ 4.0	≤ 0.40
1048	48		33.6	4.8	≤ 5.5	≤ 0.15
1060	60		42.0	6.0	≤ 5.5	≤ 0.15

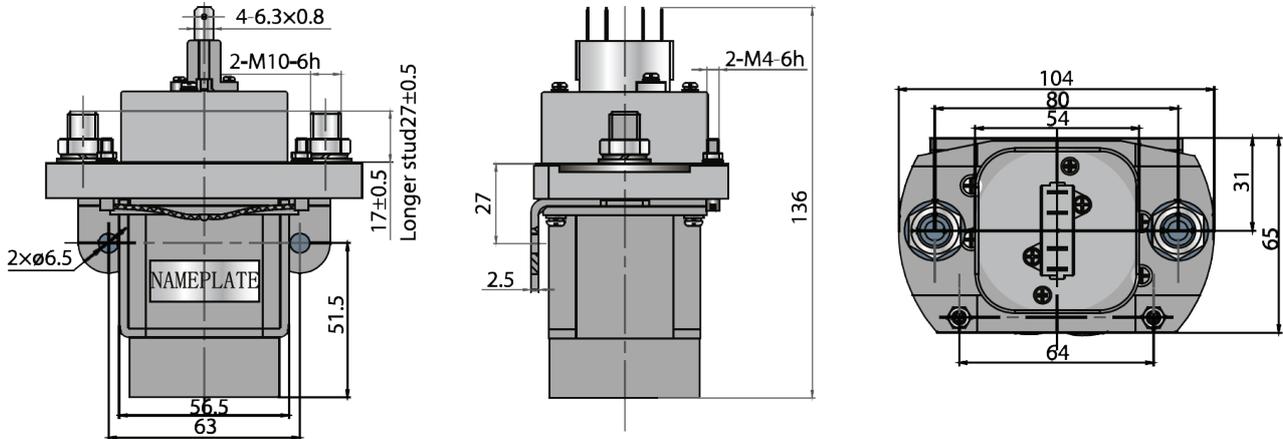
Dimensions

Fig. 1

standard



with auxiliary switch option

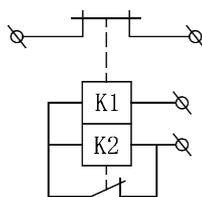


Dimensions in mm

Connections

Fig. 2

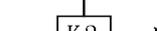
DSC40D



standard

NO

NC



with auxiliary switch option