



- Normally closed (1D) contacts
- Rated load: 100A at 48VDC
- Dust-proof seal option
- M6 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 φ=1)	DC1 100A 48VDC
Continuous thermal current	max. 100A
Terminal temperature rise above ambient	<70°C. (IEC EN60947, GB14/140484)
Voltage drop	≤80mV @ 100A

## Coil

Nominal voltage	DC 12, 24, 48, 60VDC - see table 1
Rated power consumption	max. 15W
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	<40ms
Release time	<40ms
Electrical life (at rated load)	ops. 20,000 operations
Mechanical life	ops. 1 x 10 <sup>5</sup>

## Environmental

Ambient temperature	operating	-25°C to +40°C
Relative humidity		20 to 90%RH at 20°C
Shock resistance		≤4g, (60 ~ 100ops/min)
Vibration resistance		≤3g sine peak (1 to 50Hz)
Dimensions	L x W x H	73 x 70 x 42 mm
Weight	approx.	280g

## Ordering Code

DSC10D - 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, M6 Male stud power terminals

Accessory options

Blank: No options

M: Dust-proof sealing ring

Power terminal options

Blank: Standard length (14mm)

L: Extended length (23mm)

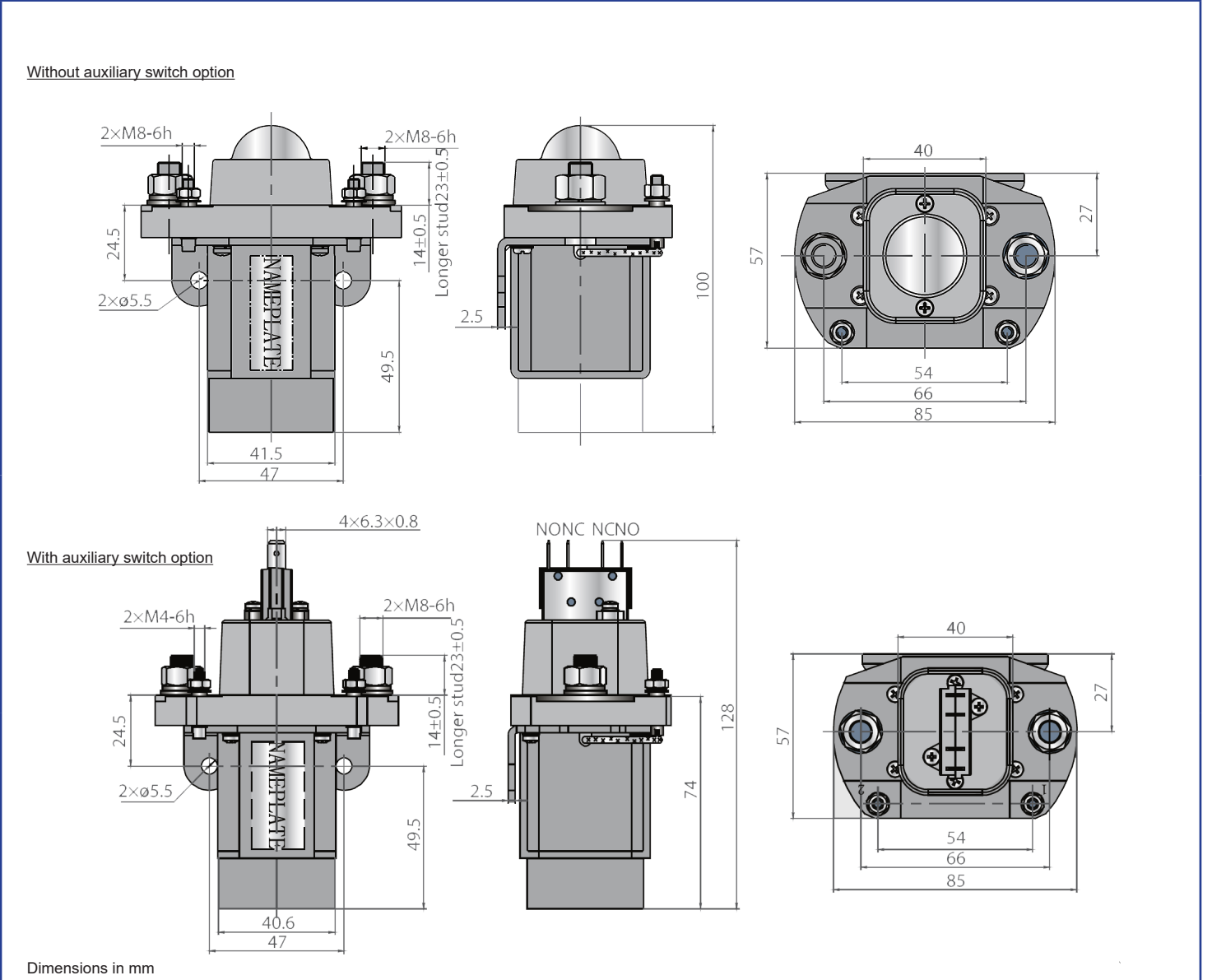
NB:

Mounting orientation:

The DSC10D 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)	Holding current (A)	
1012	12	0.85 $U_s$ ~ 1.1 $U_s$	8.4	1.2	≤ 0.9	
1024	24		16.8	2.4	≤ 0.45	
1048	48		33.6	4.8	≤ 0.25	
1060	60		42.0	6.0	≤ 0.25	

## Dimensions



## Connections

