

NOT FOR NEW DESIGNS



- 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 ⁵ |

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)

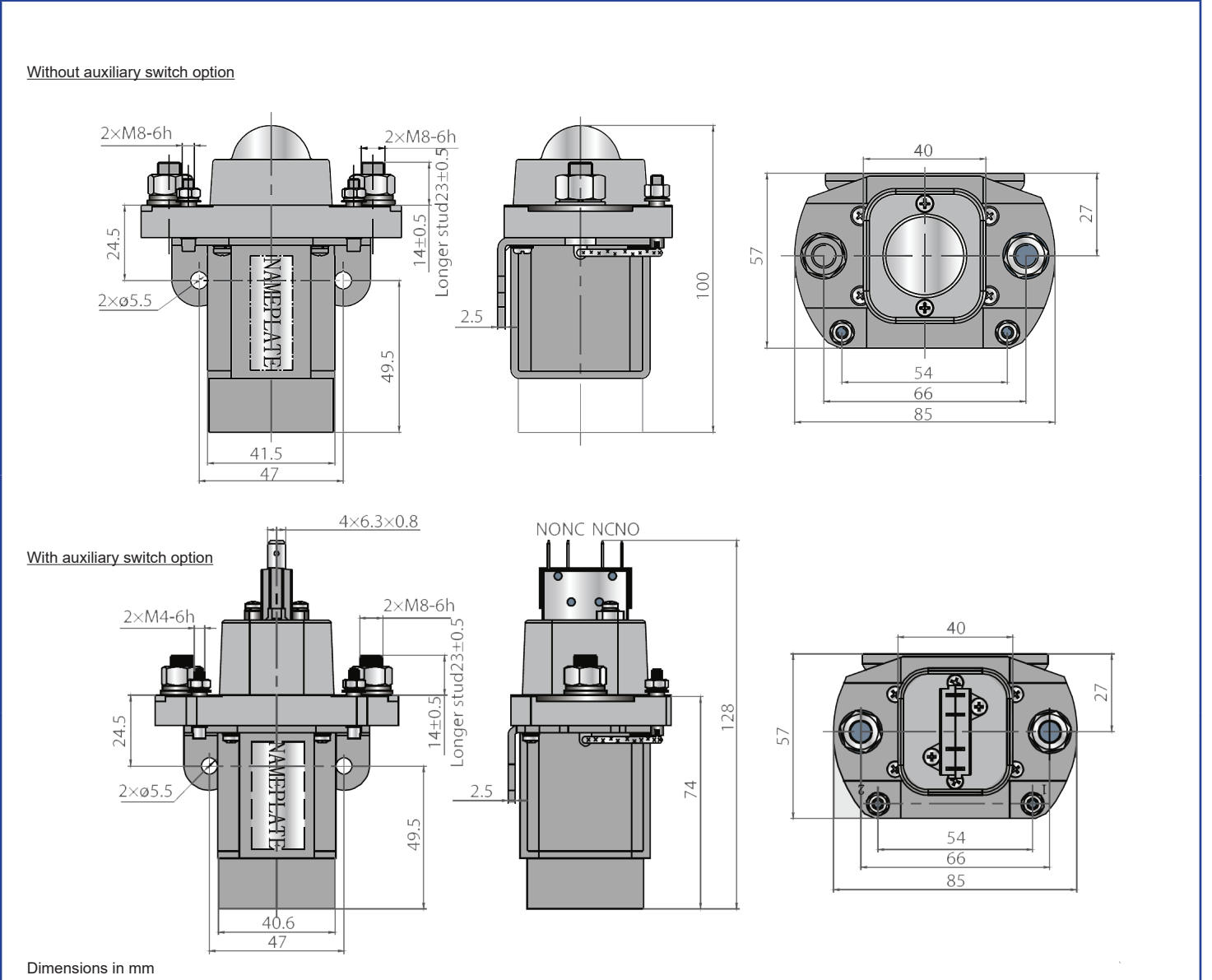
NB:

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

