



### NOT FOR NEW DESIGNS

- Normally closed (1D) contacts
- Rated load: 800A at 48VDC
- Double coil economiser
- Auxiliary contact option
- M12 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 800A 48VDC
Continuous thermal current	max. 800A
Terminal temperature rise above ambient	<70°C. (IEC EN60947, GB14/140484)
Voltage drop	≤80mV @ 800A
Auxiliary contact (when fitted)	arrangement SPST-NO + SPST-NC
	max. current 5A @ 24VDC / 2A @ 48VDC
	min. current 100mA @ 5VDC

#### Coil

Nominal voltage	DC 12, 24, 48, 60VDC - see table 1
Nominal "on hold" power consumption	max 18W
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	≤30ms
Release time	≤30ms
Electrical life (at rated load)	ops. 6,000 operations
Mechanical life	ops. 1 x 10 <sup>5</sup>

#### Environmental

Ambient temperature	operating / storage	-25°C to +60°C / -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	114.5 x 82 x 130mm (excluding aux.switch)
Weight	approx.	1500g

#### Ordering Code

DSC80D - 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, M12 Male stud power terminals

Accessory options

Blank: No options

S: Auxiliary switch

NB:

Mounting orientation:

The DSC80D may be mounted horizontally, but if mounted vertically, the coil should be positioned downwards, with the terminals uppermost.

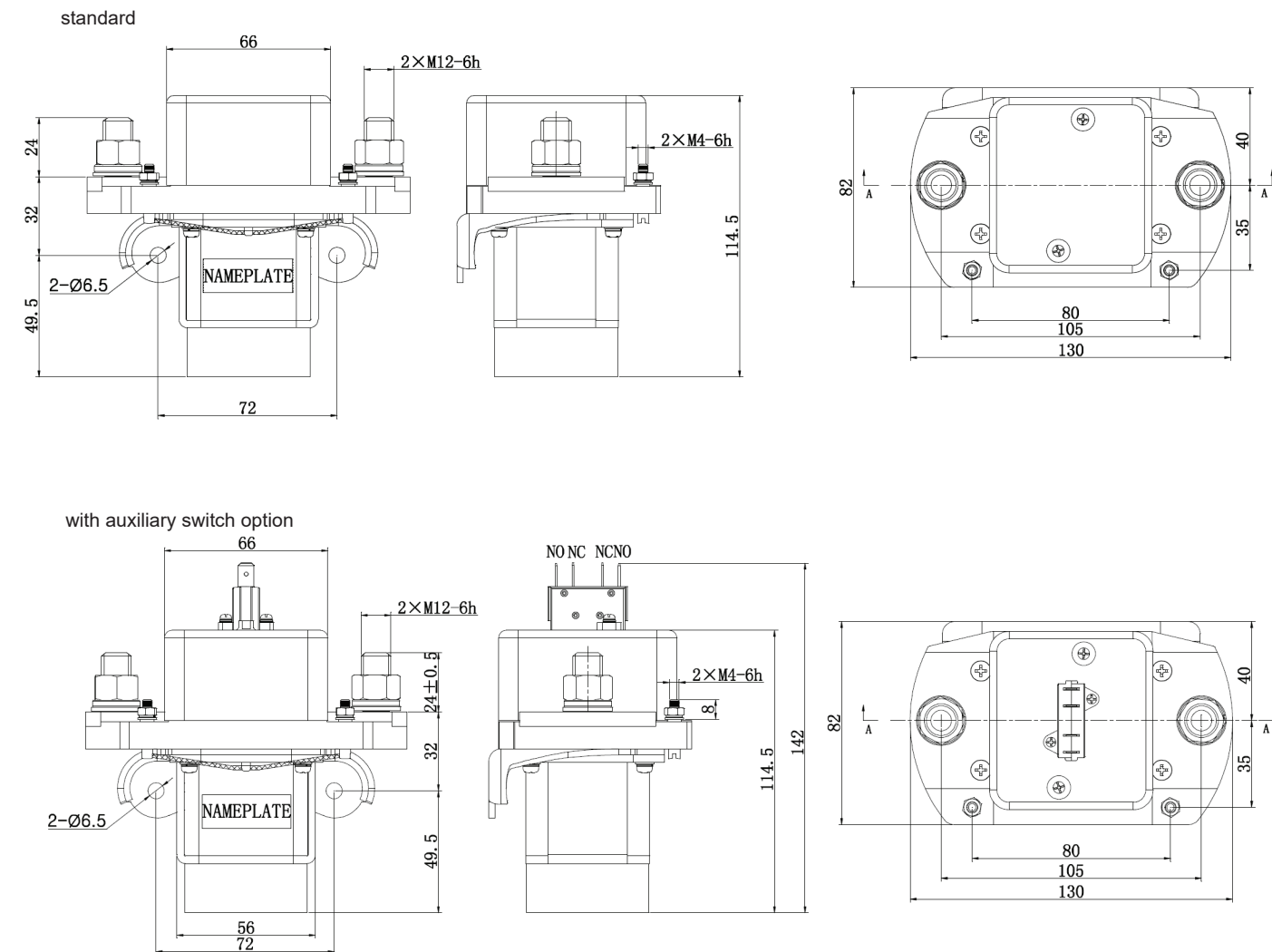
### Coil Data

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	$\leq 23.0$	$\leq 1.5$
1024	24		16.8	2.4	$\leq 11.0$	$\leq 0.6$
1048	48		33.6	4.8	$\leq 6.0$	$\leq 0.3$
1060	60		42.0	6.0	$\leq 5.0$	$\leq 0.25$

### Dimensions

Fig. 1

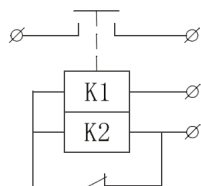


Dimensions in mm

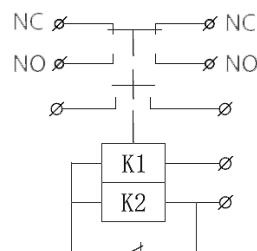
### Connections

Fig. 2

DSC80D



standard



with auxiliary switch option