

NOT FOR NEW DESIGNS



- Normally closed (1D) contacts
- Rated load: 200A at 48VDC
- Double coil economiser
- Auxiliary contact option
- M8 Power terminations
- Battery storage applications
- Electric vehicles and DC motors



Contacts

Contact arrangement	SPST-NC-DB	
Contact material	AgCu alloy	
Max. switching voltage	DC	48VDC
Rated load (resistive $\cos \phi=1$)	DC1	200A 48VDC
Continuous thermal current	max.	200A
Terminal temperature rise above ambient	<70°C. (IEC EN60947, GB14/140484)	
Voltage drop	≤80mV @ 200A	
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	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 operations
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	85 x 56.5 x 76mm (excluding aux.switch)
Weight	approx.	495g

Ordering Code

DSC20D - 4 0 3 1 - 3 8 - 1 0 1 2 - -

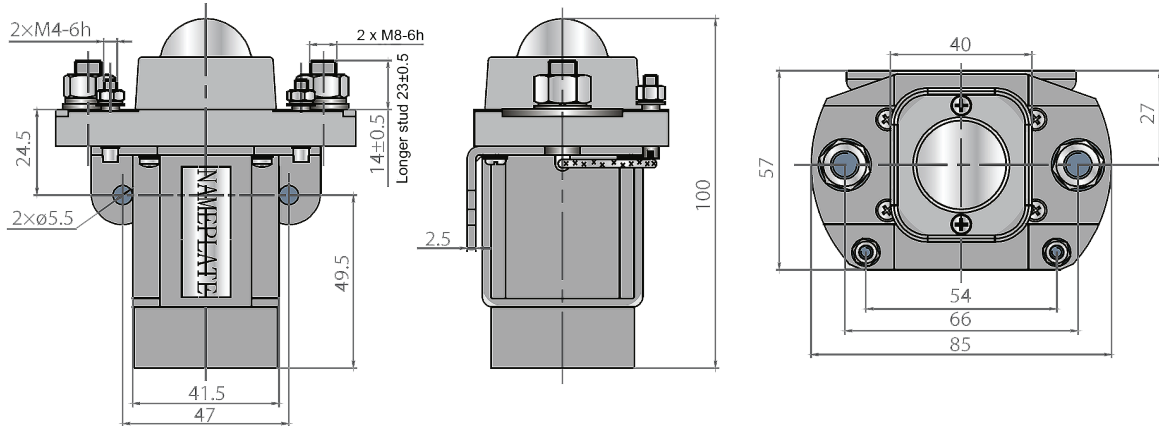
Series	Coil code: See table 1
Contact arrangement 4031: SPST-NC-DB	
Body style 38: Enclosed, M8 Male stud power terminals	
Accessory options Blank: No options S: Auxiliary switch M: Dust-proof sealing ring	
Power terminal options Blank: Standard - 14mm length L: Extended terminals - 23mm length	
NB: Mounting orientation: The DSC20D 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	≤ 0.4
1048	48		33.6	4.8	≤ 4.5	≤ 0.15
1060	60		42.0	6.0	≤ 3.5	≤ 0.10

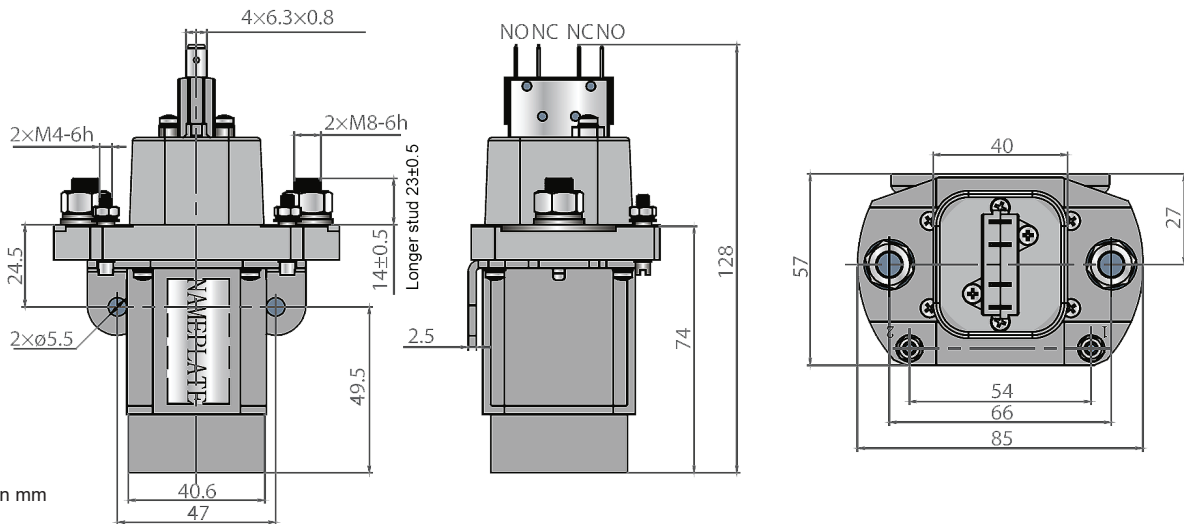
Dimensions

Fig. 1

standard



with auxiliary switch option

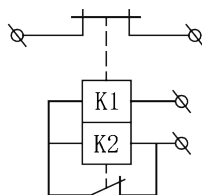


Dimensions in mm

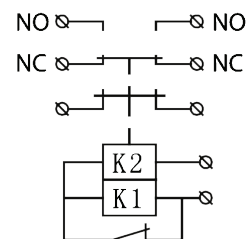
Connections

Fig. 2

DSC20D



standard



with auxiliary switch option