

- Rated load: 2000A at 60VDC
- Auxiliary contact option
- Bi-stable (Latching) option
- Busbar power terminations
- For battery storage applications



RoHS
Compliant

Contacts

Contact arrangement	SPST-NO-DM
Contact material	AgCu Alloy
Max. switching voltage	DC 60VDC
Rated load (resistive, $\cos \phi=1$)	DC1 2000A 60VDC
Max. make current	2000A @ 60VDC
Max. continuous thermal current	2000A
Max. overcurrent	non-latching 2500A for 20s
	latching 3000A for 20s
Fault current breaking capacity (resistive)	3000A @ 60VDC (UL508), 50 cycles
Terminal temperature rise above ambient	<70°C. IEC EN60947, GB14/14048.4
Contact voltage drop	max. $\leq 50\text{mV}$ @ 1800A
Auxiliary contact (when fitted)	arrangement SPST-NO + SPST-NC
	max. current 5A @ 24VDC / 2A @ 48VDC
	min. current 100mA @ 5V

Coil

Nominal voltage (see Table 1)	DC 12, 24, 48, 60VDC
Rated power consumption	15~30W hold (non-Latch), 50~70W pulse (Latch)
Working duty	Continuous (non-latching)

Insulation

Insulation resistance	initial 100M Ω (Min.) @ 500VDC
	life end 50M Ω (Min.)
Dielectric strength	coil to contact 2500V _{rms} (50/60Hz) / <1mA / 1 min (at sea level)
	contact to contact 1500V _{rms} (50/60Hz) / <1mA / 1 min (at sea level)

General Data

Operate / bounce time at 20°C	max. 60ms / 5ms
Release time	60ms
Electrical life	at rated load 6000 operations, (50 operations at 3000A/60VDC)
Mechanical life	operations 1 x 10 ⁵

Environmental

Ambient temperature	operating -25°C to +65°C (Latching), +85°C (non-Latching)
Shock resistance	$\leq 4\text{g}$, (60 ~ 100ops/min)
Vibration resistance	$\leq 3.5\text{g}$ sine peak (10 to 200Hz)
Relative humidity	RH 20 to 90%
Dimensions	L x W x H 153 x 102 x 174.8mm (over busbar terminations)
Weight	approx. 4.37kgs

Ordering Code

D S C 2 0 0 - 4 0 2 1 - 2 8 - 1 0 2 4 - S -

DSC Series

200: Standard

Coil codes

See table 1

Contact arrangement

4021: SPST-NO-DM

Body style

28: Open frame, busbar connections

Accessory options

Blank: No option

S: Auxiliary switch

Fitted with varistor for coil surge suppression as standard

Mounting & terminations

Blank: No bracket

NB: Mounting orientation:

The DSC200 may be mounted horizontally, but if mounted vertically, the coil should be positioned downwards.

Magnetic latching types:

For latching types, ensure square wave pulse length between 500ms and 1s to allow contacts to settle and magnetic circuit to be fully established. Operating frequency should be no more than 6 ops/min. Continuous energisation is not allowed.

Coil Data

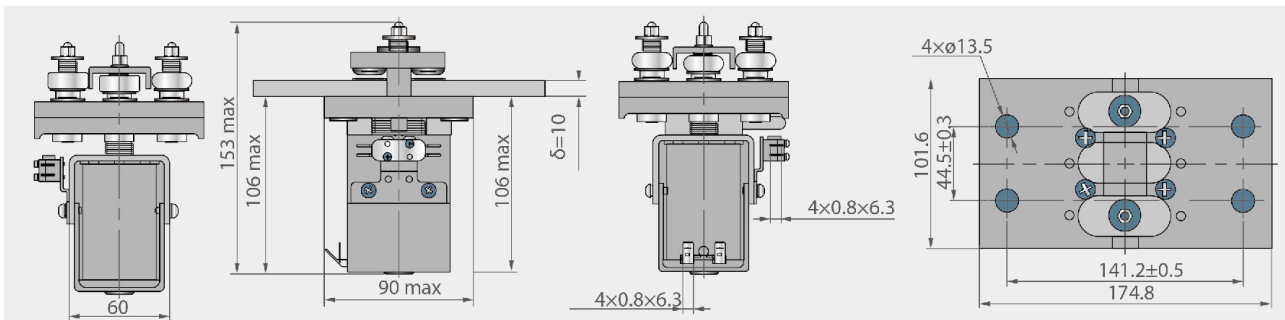
Table 1

Coil code	Nominal voltage (VDC) U _s	Coil working voltage range (V)	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	Coil power dissipation (W)	Holding current (A)
DSC200 Standard (Mono-stable, non latching)						
1012	12	0.85U _s ~ 1.1U _s	8.4	1.2	15 ~ 30	≤1
1024	24		16.8	2.4	15 ~ 30	≤1
1048	48		33.6	4.8	15 ~ 30	≤0.7
1060	60		42.0	6.0	15 ~ 30	≤0.5
DSC200 Bi-stable, magnetic latching						
SL12	12	0.85U _s ~ 1.1U _s	2.4 ~ 9.6	2.4 ~ 9.6	50 ~ 70	
SL24	24		4.8 ~ 19.2	4.8 ~ 19.2	50 ~ 70	
SL48	48		9.6 ~ 38.4	9.6 ~ 38.4	50 ~ 70	
SL60	60		12.0 ~ 48.0	12.0 ~ 48.0	50 ~ 70	
Other coils available upon special request. MOQ's will apply.						

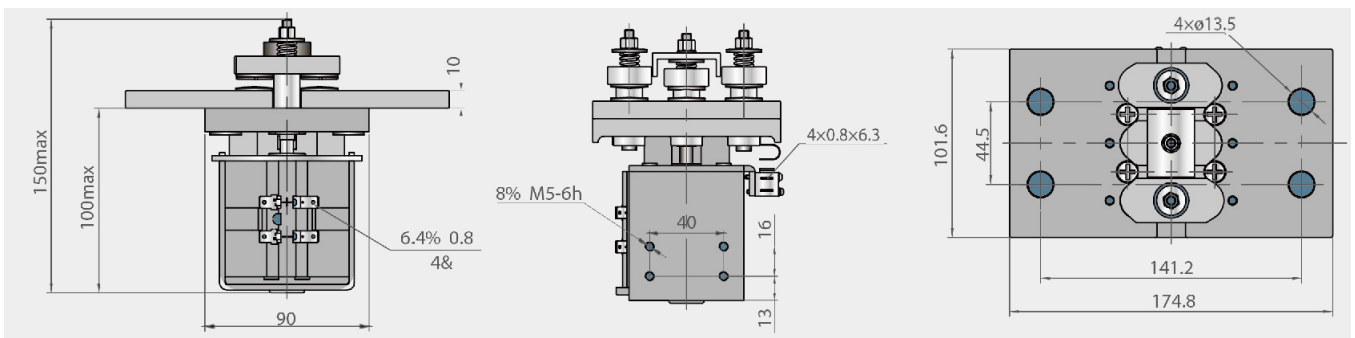
Dimensions

Fig. 1

DSC200



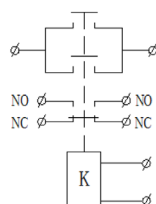
DSC200 Latch



Connections

Fig. 2

DSC200



DSC200 Latch

