



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



Contacts

Contact arrangement	SPST-NO-DM	
Contact material	AgCu Alloy	
Max. switching voltage	DC 60VDC	
Rated load (resistive, $\cos \varphi=1$)	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.	≤50mV @ 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	100MΩ (Min.) @ 500VDC
	life end	50MΩ (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		≤4g, (60 ~ 100ops/min)
Vibration resistance		≤3.5g 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	0.85 U_s ~ 1.1 U_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	0.85 U_s ~ 1.1 U_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.							

