







DURAKOOL

- Rated load: 1000A at 60VDC
- Auxiliary contact option
- Bi-stable (Latching) option
- Busbar power terminations
- For battery storage applications

UK	11	- N®	RoHS
CA	7	c Al us	Complian
		F305753	

Contacts	E305753 Ordering Code				
Contact arrangement	SPST-NO-DM				
Contact material	AgCu Alloy + Ag plating	DSC100-4 0 2 1-2 8-1 0 2 4-S			
	C 60VDC				
	1 1000A 60VDC	DSC Series Coil codes			
Max. continuous thermal current	1000A	100: Standard See table 1			
Fault current breaking capacity (resistive)	3000A @ 60VDC (UL508)				
Terminal temperature rise above ambient	<70°C. IEC EN60947, GB14/14048.4	Contact arrangement			
Contact voltage drop ma	c. ≤50mV @ 1000A	4021: SPST-NO-DM			
Auxiliary contact (when fitted) arrangeme	nt SPST-NO + SPST-NC				
max. curre	nt 5A @ 24VDC / 2A @ 48VDC	Body style			
min. curre	nt 100mA @ 5V	28: Open frame, or busbar connections			
Coil					
Nominal Voltage (see Table 1)	12, 24, 48, 60VDC	Accessory options			
Rated power consumption	15~25W hold (non-Latch), 50~70W pulse (Latch)	Blank: No option			
Working duty	Continuous (non-latching)	S: Auxiliary switch			
Insulation		Fitted with varistor for coil surge suppression as standard			
Insulation resistance initi	al 100MΩ (Min.) @500VDC				
life er	d 50MΩ (Min.)	Mounting & terminations			
Dielectric strength coil to conta	2500V _{rms} (50/60Hz) / <1mA / 1 min (at sea level)	Blank: No bracket			
contact to conta	ct 1500V _{rms} (50/60Hz) / <1mA / 1 min (at sea level)				
General Data					
Operate / bounce time at 20°C ma	c. 60ms / 5ms	NB: Mounting orientation:			
Release time	60ms	The DSC100 may be mounted horizontally, but if mounted vertically, the coil should be positioned downwards.			
Electrical life at rated loa	d 6000 operations	Magnetic latching types:			
Mechanical life operation	s 1 x 10 ⁵	For latching types, ensure square wave pulse length between			
Environmental		500ms and 1s to allow contacts to settle and magnetic circuit to be fully established. Operating frequency should be no more			
Ambient temperature operatir	g -25°C to +65°C (Latching), +85°C (non-Latching)	than 6 ops/min. Continuous energisation is not allowed.			
Shock resistance	≤4g, (60 ~ 100ops/min)				
Vibration resistance	≤3.5g sine peak (10 to 200Hz)				
Relative humidity R	1 20 to 90%				
Dimensions L x W x	H 135 x 90.5 x 152mm (over busbar terminations)				
Weight appro	c. 3.02kgs				

Specifications are subject to change without notice. E&OE.



DSC100 series LVDC Contactor 1000A / 60VDC

Coil Data						Table
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)
DSC100 Standard (M	lono-stable, non latchir	ıg)				•
1012	12	0.85U _s ~ 1.1U _s	8.4	1.2	15 ~ 25	≤2
1024	24		16.8	2.4	15 ~ 25	≤1
1048	48		33.6	4.8	15 ~ 25	≤0.7
1060	60		42.0	6.0	15 ~ 25	≤0.5
DSC100 Bi-stable, m	agnetic 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	

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