DURAKOOL®



- Rated load: 1800A at 60VDC
- Auxiliary contact option
- Bi-stable (Latching) option
- Busbar power terminations
- For battery storage applications

Contacts	E305753				
Contact arrangement	SPST-NO-DM				
Contact material	AgCu Alloy	DSC180-4 0 2 1 - 2 8 - 1 0 2 4 - S			
Max. switching voltage DC	60VDC				
Rated load (resistive, cos φ=1) DC1	1800A 60VDC	DSC Series Coil codes			
Max. continuous thermal current	1800A	180: Standard See table 1			
Fault current breaking capacity (resistive)	3000A @ 60VDC (UL508)	Contact arrangement			
Terminal temperature rise above ambient	<70°C. IEC EN60947, GB14/14048.4				
Contact voltage drop max.	≤50mV @ 1800A	4021: SPST-NO-DM			
Auxiliary contact (when fitted) arrangement	SPST-NO + SPST-NC				
max. current	5A @ 24VDC / 2A @ 48VDC	Body style			
min. current	100mA @ 5V	28: Open frame, busbar connections			
Coil					
Nominal Voltage (see Table 1) DC	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 initial	100MΩ (Min.) @500VDC				
life end	50MΩ (Min.)	Mounting & terminations			
Dielectric strength coil to contact	$2500V_{\text{rms}}$ (50/60Hz) / <1mA / 1 min (at sea level)	Blank: No bracket			
contact to contact	1500V_rms (50/60Hz) / <1mA / 1 min (at sea level)				
General Data					
Operate / bounce time at 20°C max.	60ms / 5ms	NB: Mounting orientation:			
Release time	60ms	The DSC180 may be mounted horizontally, but if mounted vertically, the coil should be positioned downwards.			
Electrical life at rated load	6000 operations	Magnetic latching types:			
Mechanical life operations	1 x 10 ⁵	For latching types: 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 operating	-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 RH	20 to 90%				
Dimensions L x W x H	153 x 102 x 174.8mm (over busbar terminations)				
Weight approx.	4.37kgs				

1

JURAKOOL

DSC180 series LVDC Contactor 1800A / 60VDC

Coil Data Table 1								
Coil code	Nominal voltage (VDC) U₅	Coil working voltage range (V)	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	Coil power dissipation (W)	Holding current (A)		
DSC180 Standard (Mono-stable, non latching)								
1012	12	0.85Us ~ 1.1Us	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		
DSC180 Bi-stable, magnetic latching								
SL12	12	0.85Us ~ 1.1Us	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.								









DSC180 011023JHM

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