



- Rated load: 500A at 60VDC
- Auxiliary contact option
- Bi-stable (Latching) option
- Busbar power terminations
- For battery storage applications

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Contacts			Ordering Code				
Contact arrangement		SPST-NO-DM					
Contact material		AgCu Alloy	D S C 5 0 - 4 0 2 1 - 2 8 - 1 0 2 4 - S 2				
Max. switching voltage	DC	60VDC					
Rated load (resistive, cos φ=1)	DC1	500A 60VDC	DSC Series Coil codes				
Max. continuous thermal current		500A	50: Standard See tables 1 & 2				
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	max.	≤80mV @ 500A	4021: SPST-NO-DM				
Auxiliary contact (when fitted) arran	gement	SPST-NO + SPST-NC					
		5A @ 24VDC / 2A @ 48VDC	Body style				
		100mA @ 5V	28: Open frame and busbar connections				
Coil							
Nominal Voltage (see table 1)	DC	12, 24, 48, 60VDC	Accessory options				
Rated power consumption		10~20W hold (non-Latch), 15~35W pulse (Latch)	Blank: No option				
Working duty		Continuous (not magnetic latch type)	S: Auxiliary switch				
Insulation			D: Parallel back emf diode suppression (standard coils)				
Insulation resistance initial		100MΩ (Min.) @500VDC	T: Parallel TVS back emf suppression diode (bi-stable coils)				
life end		50MΩ (Min.)					
Dielectric strength coil to contact		1000V _{ms} (50/60Hz) / <1mA / 1 min (at sea level)	Mounting & terminations				
contact to contact		1000V _{ms} (50/60Hz) / <1mA / 1 min (at sea level)	Blank: No bracket				
General Data			1L: One 'L' shaped mounting bracket				
Operate / bounce time at 20°C	max.	60ms / 5ms	2L: Two 'L' shaped mounting brackets				
Release time		60ms	2P: Two 'P' shaped mounting brackets				
Electrical life at rat	ted load	20,000 operations					
Mechanical life ope	erations	1 x 10 ⁵	NB: Mounting orientation:				
Environmental			The DSC50 may be mounted horizontally, but if mounted				
Ambient temperature or	perating	-25°C to +65°C (Latching), +85°C (non-Latching)	vertically, the coil should be positioned downwards.				
Shock resistance		≤4g, (60 ~ 100 ops/min)	Magnetic latching types:				
Vibration resistance		≤3.0g sine peak (1 to 50Hz)	For latching types, ensure >200ms pulse length to allow contacts to settle and magnetic circuit to be fully established. Long term				
Relative humidity	RH	up to 98% at 20°C	continuous coil energizing is not permitted.				
· · · · · · · · · · · · · · · · · · ·		128 x 50.8 x 103mm (over busbar terminations)	······································				
	approx.	· · · · · · · · · · · · · · · · · · ·					

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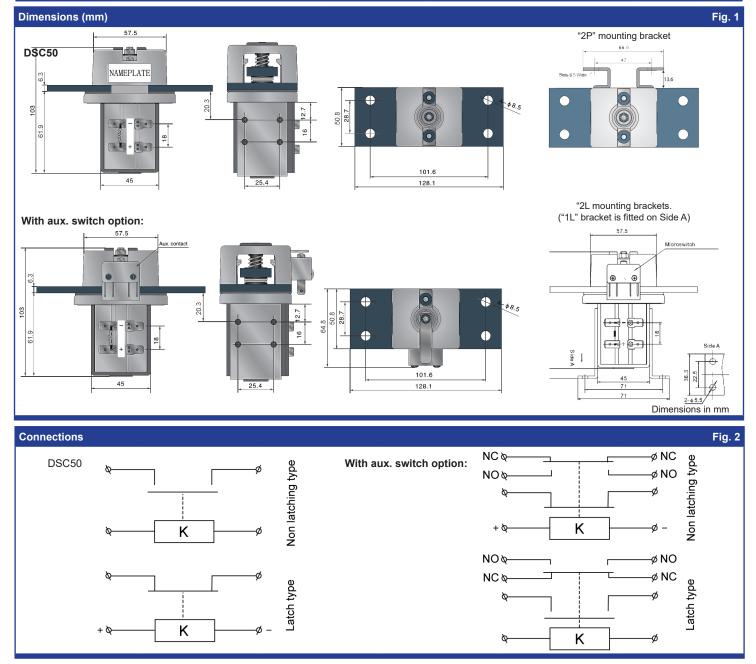
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DSC50 series LVDC Contactor 500A / 60VDC

DC Coil Data - DSC50 Standard (Mono-stable, non latching) Table								
Coil code	Nominal voltage (VDC) Us	Coil working voltage range (V)	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	Coil power dissipation (W)	Holding current (A)		
1012	12	0.85U₅ ~ 1.1U₅	8.4	1.2	10 ~ 20	≤1.2		
1024	24		16.8	2.4	10 ~ 20	≤0.6		
1048	48		33.6	4.8	10 ~ 20	≤0.3		
1060	60		42.0	6.0	10 ~ 20	≤0.25		

DC Coil Data - DSC50 Bi-stable, magnetic latching Table 2							
Coil code	Nominal voltage (VDC) Us	Coil working voltage range (V)	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	Coil power dissipation (W)	Coil power (W)	
SL12	12	0.85U₅ ~ 1.1U₅	2.4 ~ 9.6	2.4 ~ 9.6	15 ~ 30	Initial	
SL24	24		4.8 ~ 19.2	4.8 ~ 19.2	15 ~ 30	15~35W	
SL48	48		9.6 ~ 38.4	9.6 ~ 38.4	15 ~ 30	Pulse length	
SL60	60		12.0 ~ 48.0	12.0 ~ 48.0	15 ~ 30	~1 sec	

Other coils available upon special request. MOQ's will apply.



DSC50 032922JHM

Specifications are subject to change without notice. E&OE