



- Rated load: 600A at 60VDC
- · Auxiliary contact option
- Bi-stable (Latching) option
- Busbar power terminations
- For battery storage applications

		UK CE C ROHS Compliant				
Contacts		Ordering Code				
Contact arrangement	SPST-NO-DM					
Contact material	AgCu Alloy	DSC60-4021-28-1024-S 2L				
Max. switching voltage	C 60VDC					
Rated load (resistive, cos φ=1)	1 600A 60VDC	DSC Series Coil codes				
Max. continuous thermal current	600A	60: 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 ma	c. ≤80mV @ 500A	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 and busbar connections				
Coil						
Nominal Voltage (see table 1)	C 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 init	al 100MΩ (Min.) @500VDC	T: Parallel TVS back emf suppression diode (bi-stable coils)				
life e	d 50MΩ (Min.)					
Dielectric strength coil to conta	ot 1000V _{rms} (50/60Hz) / <1mA / 1 min (at sea level)	Mounting & terminations				
contact to conta	ct 1000V _{rms} (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 ma	c. 60ms / 5ms	2L: Two 'L' shaped mounting brackets				
Release time	60ms	2P: Two 'P' shaped mounting brackets				
Electrical life at rated loa	d 20,000 operations					
Mechanical life operatio	s 1 x 10 ⁵	NB: Mounting orientation:				
Environmental		The DSC60 may be mounted horizontally, but if mounted				
Ambient temperature operation	g -25°C to +65°C (Latching), +85°C (non-Latching)	vertically, the coil should be positioned downwards.				
Shock resistance	≤4g, (60 ~ 100ops/min)	Magnetic latching types: For latching types, ensure >200ms pulse length to allow				
Vibration resistance	≤3.0g sine peak (1 to 50Hz)	contacts to settle and magnetic circuit to be fully established.				
Relative humidity F	H up to 98% at 20°C	Long term continuous coil energizing is not permitted.				
Dimensions L x W x	H 128 x 63.5 x 103mm (over busbar terminations)					
Weight appro	c. 1kg					

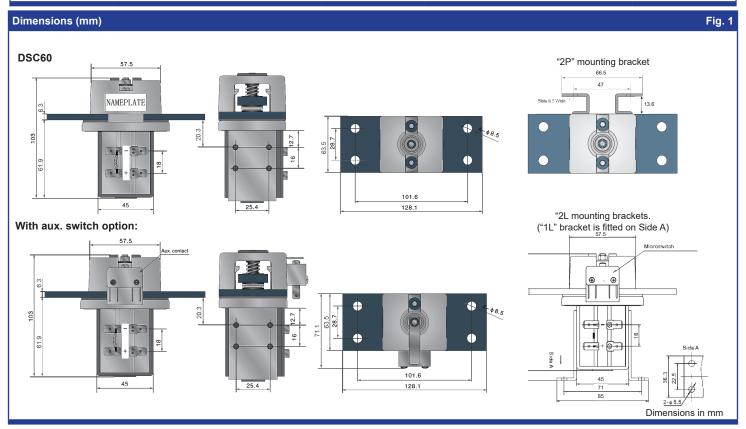
Specifications are subject to change without notice. E&OE.

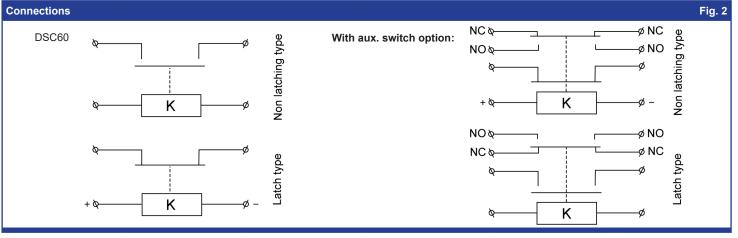


DSC60 series LVDC Contactor 600A / 60VDC

DC Coil Data - DSC60 Standard (Mono-stable, non-latching) 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)		
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 - DSC60 Bi-stable, magnetic latching							
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)	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.							





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