



- Rated load: 300A at 60VDC
- · Auxiliary contact option
- Bi-stable (Latching) option
- Busbar power terminations
- For battery storage applications

			UK CE C ROHS Compliant					
Contacts		Crdering Code						
Contact arrangement		SPST-NO-DM						
Contact material		AgCu Alloy	DSC30-4021-28-1024-S 2L					
Max. switching voltage DC		60VDC						
Rated load (resistive, cos φ=1) DC1		300A 60VDC	DSC Series Coil codes					
Max. continuous thermal current		300A	30: 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)	arrangement	SPST-NO + SPST-NC						
	max. current	5A @ 24VDC / 2A @ 48VDC	Body style					
	min. current	100mA @ 5V	28: Open frame and busbar connections					
Coil								
Rated Voltage (see table 1)	DC	12, 24, 48, 60VDC	Accessory options					
Rated power consumption		15~25W 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 _{rms} (50/60Hz) / <1mA / 1 min (at sea level)	Mounting & terminations					
contact to contact		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	max.	60ms / 5ms	2L: Two 'L' shaped mounting brackets					
Release time		60ms	2P: Two 'P' shaped mounting brackets					
Electrical life	at rated load	20,000 operations						
Mechanical life	operations	1 x 10 ⁵	NB: Mounting orientation:					
Environmental			The DSC30 may be mounted horizontally, but if mounted					
Ambient temperature operating		-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 RH		up to 98% at 20°C	Long term continuous coil energizing is not permitted.					
Dimensions	LxWxH	128 x 50.8 x 103mm (over busbar terminations)						
Weight	approx.	800g (depends on options)						

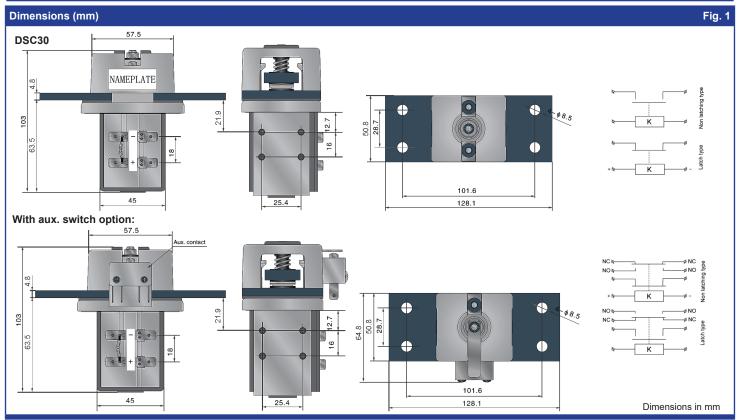
Specifications are subject to change without notice. E&OE.

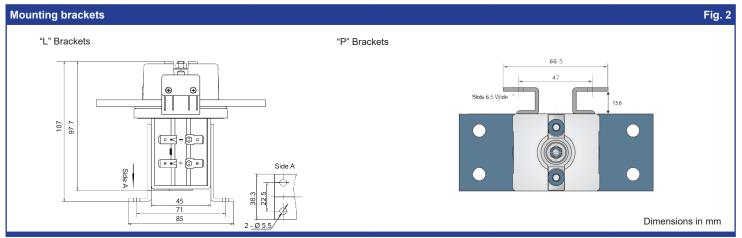


DSC30 series LVDC Contactor 300A / 60VDC

DC Coil Data - DSC30 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 - DSC30 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	0.85U _s ~ 1.1U _s	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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