



- Rated load: 800A at 60VDC
- · Auxiliary contact option
- · Bi-stable (Latching) option
- · Busbar terminations

		UK CE CAL'S ROHS Compliant		
Contacts		Ordering Code		
Contact arrangement	SPST-NO-DM			
Contact material	AgCu Alloy	DSC80-4021-28-1024-SDW		
Max. switching voltage DC	60V			
Rated load (resistive, cos φ=1) DC1	800A 60VDC	DSC Series Coil codes		
Working duty	Continuous	80: Standard See tables 1 & 2		
Terminal temperature rise above ambient	<70°C. IEC EN60947, GB14/14048.4			
Contact voltage drop max.	≤ 80mV @ 100A	Contact arrangement		
Auxiliary Contact (when fitted) Arrangement	SPST-NO (1 Form A)	4021: SPST-NO-DM		
Max. Current	5A @ 24VDC / 2A @ 48VDC			
Min. Current	100mA @ 5V	Body style		
Coil		28: Open frame, busbar terminations		
Nominal Voltage (see page 2) DC	12 ~ 120VDC (Tables 1 & 2)			
Rated power consumption	15~25W hold (non-Latch), 30~40W pulse (Latch)	Accessory options		
Minimum pulse length (latch coil)	500ms	Blank: No option		
Insulation		S: Auxiliary switch		
Insulation resistance Initial	100MΩ (Min.) @ 500VDC	D: Parallel back emf diode suppression (standard coils)		
Dielectric strength coil to contact	1000V <sub>rms</sub> (50/60Hz) / <1mA / 1 min (at sea level)	T: Parallel TVS back emf suppression diode (bi-stable coils)		
contact to contact	1000V <sub>rms</sub> (50/60Hz, 1min, <1mA leakage)			
General Data		Mounting & terminations		
Operate / bounce time at 20°C max.	30ms / 3ms	Blank: No bracket		
Release time max.	30ms	1L: One "L" shaped mounting bracket		
Electrical life at rated load	20,000 ops	2L: Two "L" shaped mounting brackets		
Mechanical life no load	100,000 ops			
Environmental				
Ambient temperature operating	-25°C to +65°C (Latch), +85°C (non-Latching)			
Shock resistance	20g peak, 11ms 1/2 sine			
Vibration resistance	3g sine peak (1-50Hz 0.5mm amplitude)			
Relative humidity RH	20% ~ 90%			
Dimensions L x W x H	128 x 63.5 x 133 mm (approx.)			
Weight approx.	2kg (varies according to options and coils)			

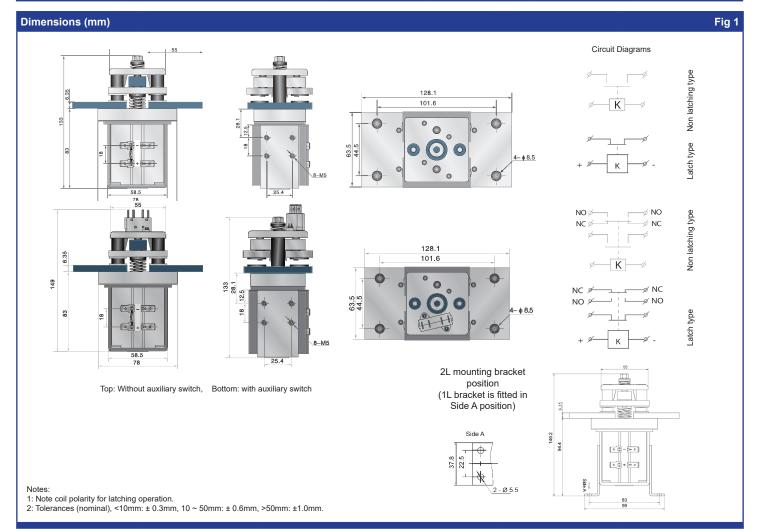


## DSC80 series LVDC Contactor 800A / 60VDC

Coil Data - Standard	(monostable) coil					Table 1
Coil code	Nominal voltage U <sub>s</sub> (VDC)	Recommended coil operating range (V)	Must operate max. voltage (VDC)	Must release voltage min. (VDC)	Starting current (A)	Coil power (W)
1012	12		≤ 8.4	≥ 1.2	≤ 1.50	
1024	24		≤ 16.8	≥ 2.4	≤ 0.70	
1030	30	0.85U₅ ~ 1.2U₅	≤ 21.0	≥ 3.0	≤ 0.60	
1036	36		≤ 25.2	≥ 3.6	≤ 0.50	
1048	48		≤ 33.6	≥ 4.8	≤ 0.35	15 ~ 25W
1060	60		≤ 42.0	≥ 6.0	≤ 0.30	15 ~ 2500
1072	72		≤ 50.4	≥ 7.2	≤ 0.25	
1080	80		≤ 56.0	≥ 8.0	≤ 0.20	
1096	96		≤ 67.2	≥ 9.6	≤ 0.20	
1120	120		≤ 84.0	≥ 12.0	≤ 0.15	

Coil Data - Single co	oil latch (bi-stable). Re	everse polarity through	coil to unlatch.			Table
Coil code	Nominal voltage U <sub>s</sub> (VDC)	Recommended coil operating range (V)	Must operate max. voltage (VDC)	Must release voltage min. (VDC)	Starting current (A)	Coil power (W)
SL12	12	0.85Us ~ 1.2Us	≤ 9.6	≤ 9.6	≤ 2.50	
SL24	24		≤ 19.2	≤ 19.2	≤ 1.50	
SL30	30		≤ 24.0	≤ 24.0	≤ 1.00	
SL36	36		≤ 28.8	≤ 28.8	≤ 1.00	Initial
SL48	48		≤ 38.4	≤ 38.4	≤ 0.80	30 ~ 40W
SL60	60		≤ 48.0	≤ 48.0	≤ 0.60	Pulse length
SL72	72		≤ 57.6	≤ 57.6	≤ 0.50	0.5 ~ 1 sec.
SL80	80		≤ 64.0	≤ 64.0	≤ 0.40	
SL96	96		≤ 76.8	≤ 76.8	≤ 0.35	
SL120	120		≤ 96.0	≤ 96.0	≤ 0.30	

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



Specifications are subject to change without notice. E&OE