



- Rated load: 100A at 60VDC
- 120VDC with Magnet arc blow-out option

RoHS

- Auxiliary contact option
- Bi-stable (Latching) option
- Male or Female power terminals

Contacts			Ordering Code				
Contact arrangement		SPST-NO-DM					
Contact material		AgCu Alloy	DSC10M-4021-28-1024-SDW				
Max. switching voltage	DC	60V, 120VDC with magnet arc blow-out					
Rated load (resistive, cos φ=1)	DC1	100A 60VDC	DSC Series Coil codes				
Working duty		Continuous	10: Standard See tables 1 & 2				
Terminal temperature rise above ambient		<70°C. IEC EN60947, GB14/14048.4	10M: Magnet arc blow-out*				
Contact voltage drop	max.	≤ 80mV @ 100A	* See Note 2				
Auxiliary Contact (when fitted) Arr	rangement	SPST-NO (1 Form A)					
Ma	ax. Current	5A @ 24VDC / 2A @ 48VDC	Contact arrangement				
Mi	in. Current	100mA @ 5V	4021: SPST-NO-DM				
Coil							
Nominal Voltage (see page 2) DC		12 ~ 120VDC (Tables 1 & 2)	Body style				
Rated power consumption		5~9W hold (non-Latch), 20~30W pulse (Latching)	28: Open frame, male stud terminals				
Minimum pulse length (latch coil)		200ms					
Insulation			Accessory options				
Insulation resistance Initial		100MΩ (Min.) @500VDC	Blank: No option				
Dielectric strength coil to contact		$1000V_{\mbox{\tiny rms}}$ (50/60Hz) / <1mA / 1 min (at sea level)	S: Auxiliary switch				
contact to contact		1000V _{rms} (50/60Hz, 1min, <1mA leakage)	D: Parallel back emf diode suppression (standard coils)				
General Data			T: Parallel TVS back emf suppression diode (bi-stable coils)				
Operate / bounce time at 20°C	max.	30ms / 3ms					
Release time	max.	30ms	Mounting & terminations				
Electrical life at	rated load	20,000 ops	Blank: No bracket				
Mechanical life	no load	100,000 ops	W: Side mounted bracket				
Environmental							
Ambient temperature	operating	-25°C to +65°C (Latching), +85°C (non-Latching)	<u>Circuit schematic</u>				
Shock resistance		20g peak, 11ms 1/2 sine	Monostable Bi-stable				
Vibration resistance		3g sine peak (1-50Hz 0.5mm amplitude)					
Relative humidity	RH	20% ~ 90%					
Dimensions	LxWxH	32.8 x 36.9 x 84.2 mm (approx.)	Ø <u> </u>				
Weight	approx.	201g (varies according to options and coils)					

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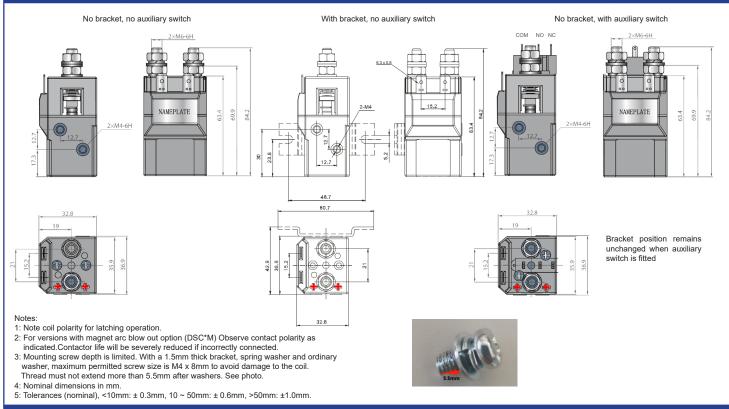
DSC10 series **DSC10 series** LVDC Contactor 100A / 60VDC / 120VDC

Coil Data - Standard	(monostable) coil					Table 1
Coil code	Nominal voltage U _s (VDC)	Recommended coil operating range (V)	Must operate max. voltage (VDC)	Must release voltage min. (VDC)	Starting current (A)	Coil power (W)
1012	12	0.85U₅ ~ 1.2U₅	≤ 8.4	≥ 1.2	≤ 0.6	
1024	24		≤ 16.8	≥ 2.4	≤ 0.25	
1030	30		≤ 21.0	≥ 3.0	≤ 0.23	
1036	36		≤ 25.2	≥ 3.6	≤ 0.2	
1048	48		≤ 33.6	≥ 4.8	≤ 0.15	5 ~ 9W
1060	60		≤ 42.0	≥ 6.0	≤ 0.13	5~900
1072	72		≤ 50.4	≥ 7.2	≤ 0.12	
1080	80		≤ 56.0	≥ 8.0	≤ 0.09	
1096	96		≤ 67.2	≥ 9.6	≤ 0.08	
1120	120		≤ 84.0	≥ 12.0	≤ 0.07	

il Data - Single c	oil latch (bi-stable). Re	everse polarity through	coil to unlatch.			Tab
Coil code	Nominal voltage U _s (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	≤ 2.0	Initial 20 ~ 35W
SL24	24		≤ 19.2	≤ 19.2	≤ 1.0	
SL30	30		≤ 24.0	≤ 24.0	≤ 0.70	
SL36	36		≤ 28.8	≤ 28.8	≤ 0.50	
SL48	48		≤ 38.4	≤ 38.4	≤ 0.40	
SL60	60		≤ 48.0	≤ 48.0	≤ 0.40	Pulse length
SL72	72		≤ 57.6	≤ 57.6	≤ 0.35	0.5 ~ 1 sec.
SL80	80		≤ 64.0	≤ 64.0	≤ 0.35	
SL96	96		≤ 76.8	≤ 76.8	≤ 0.30	
SL120	120		≤ 96.0	≤ 96.0	≤ 0.25	1

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

Dimensions



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Specifications are subject to change without notice. E&OE

Fig 1