



Rated load: 150A at 60VDC

- 120VDC with magnet arc blow-out option
- Auxiliary contact option
- Bi-stable (Latching) option
- M8 Male power terminals

		Compliant
Contacts		Ordering Code
Contact arrangement	SPST-NO-DM	
Contact material	AgCu Alloy	DSC15M-4021-28-1024-SDW
Max. switching voltage	DC 60V, 120V with magnet arc blow-out	
Rated load (resistive, cos φ=1)	DC1 150A 60VDC	DSC Series Coil codes
Working duty	Continuous	15: Standard See tables 1 & 2
Terminal temperature rise above ambient	<70°C. IEC EN60947, GB14/14048.4	15M: Magnet arc blow-out
Contact voltage drop	max. ≤ 80mV @ 100A	
Auxiliary Contact (when fitted) Arrang	ment SPST-NO (1 Form A)	Contact arrangement
Max. C	rrent 5A @ 24VDC / 2A @ 48VDC	4021: SPST-NO-DM
Min. C	rrent 100mA @ 5V	
Coil		Body style
Nominal Voltage (see page 2)	DC 12 ~ 120VDC (Tables 1 & 2)	28: Open frame, male stud terminals
Rated power consumption	10~20W hold (non-Latch), 15~30W puls	se (Latch)
Minimum pulse length (latch coil)	500ms	Accessory options
Insulation		Blank: No options
Insulation resistance	nitial 100MΩ (Min.) @ 500VDC	C: Dust cover IP40
Dielectric strength coil to c	ntact 1000V _{rms} (50/60Hz) / <1mA / 1 min (at se	ea level) S: Auxiliary switch
contact to c	ntact 1000 V_{rms} (50/60Hz, 1min, <1mA leakage	e) 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 rate	load 20,000 ops	Blank: No bracket
Mechanical life n	load 100,000 ops	W: 'W' shaped mounting bracket
Environmental		1L: One "L" shaped mounting bracket
Ambient temperature ope	ating -25°C to +65°C (Latching), +85°C (non-	Latching) 2L: Two "L" shaped mounting brackets
Shock resistance	20g peak, 11ms 1/2 sine	2P: Two "P" shaped mounting brackets
Vibration resistance	3g sine peak (1-50Hz 0.5mm amplitude) (see Fig. 1 for bracket styles)
Relative humidity	RH 20%~90%	
Dimensions L x	/ x H 50 x 39 x 96 mm (approx.)	
Weight a	prox. 380g (varies according to options and c	oils)

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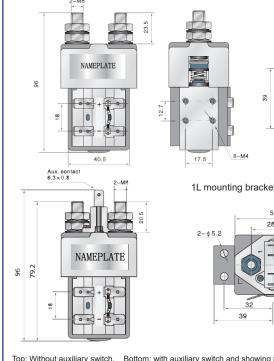
DSC15 series DSC15 series LVDC Contactor 150A / 60VDC / 120VDC

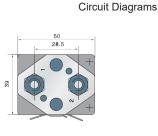
Coil Data - Standard	(monostable) coil					Table '
Coil code	Nominal voltage Us (VDC)	Recommended coil operating range (V)	Must operate max. voltage (VDC)	Must release voltage min. (VDC)	Starting current (A)	Coil power (W)
1012	12	0.85Us ~ 1.2Us	≤ 8.4	≥ 1.2	≤ 1.00	
1024	24		≤ 16.8	≥ 2.4	≤ 0.60	
1030	30		≤ 21.0	≥ 3.0	≤ 0.60	
1036	36		≤ 25.2	≥ 3.6	≤ 0.50	
1048	48		≤ 33.6	≥ 4.8	≤ 0.30	
1060	60		≤ 42.0	≥ 6.0	≤ 0.25	
1072	72		≤ 50.4	≥ 7.2	≤ 0.20	
1080	80		≤ 56.0	≥ 8.0	≤ 0.15	
1096	96		≤ 67.2	≥ 9.6	≤ 0.15	
1120	120		≤ 84.0	≥ 12.0	≤ 0.15	

Data - Single co	o <mark>il latch (bi-stable)</mark> . Re	everse polarity through	coil to unlatch.			Tab
Coil code	Nominal voltage U₅ (VDC)	Recommended coil operating range (V)	Must operate max. voltage (VDC)	Must release voltage min. (VDC)	Starting current (A)	Coil power (W)
SL12	12	0.85U₅ ~ 1.2U₅	≤ 9.6	≤ 9.6	≤ 2.00	Initial 15 ~ 35W Pulse length 0.5 ~ 1 sec.
SL24	24		≤ 19.2	≤ 19.2	≤ 1.00	
SL30	30		≤ 24.0	≤ 24.0	≤ 0.75	
SL36	36		≤ 28.8	≤ 28.8	≤ 0.70	
SL48	48		≤ 38.4	≤ 38.4	≤ 0.50	
SL60	60		≤ 48.0	≤ 48.0	≤ 0.40	
SL72	72		≤ 57.6	≤ 57.6	≤ 0.40	
SL80	80		≤ 64.0	≤ 64.0	≤ 0.35	
SL96	96		≤ 76.8	≤ 76.8	≤ 0.30	
SL120	120		≤ 96.0	≤ 96.0	≤ 0.25	

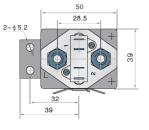
able upon spec ial request. MOQ's will apply.

Dimensions (mm)





1L mounting bracket (2L is both sides)



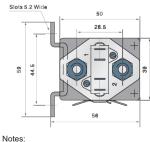
Top: Without auxiliary switch, Bottom: with auxiliary switch and showing mounting bracket positions







W mounting bracket



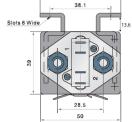


Non latching type









Note coil polarity for latching operation.
Observe contact polarity as indicated.

3: Tolerances (nominal), <10mm: ± 0.3mm, 10 ~ 50mm: ± 0.6mm, >50mm: ±1.0mm.

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Fig 1