



- Rated load: 250A at 60VDC
- Auxiliary contact option
- Bi-stable (Latching) option
- Busbar terminations

Contacts			Crdering Code				
Contact arrangement		SPST-NO-DM					
Contact material		AgCu Alloy	DSC25 - 4 0 2 1 - 2 8 - 1 0 2 4 - S D				
Max. switching voltage	DC	60V					
Rated load (resistive, cos φ=1)	DC1	250A 60VDC	DSC Series Coil codes				
		400A for 10s with 100mm ² conductors	25: Standard See tables 1 & 2				
		300A for 30s with 100mm ² conductors					
Terminal temperature rise above a	mbient	<70°C. IEC EN60947, GB14/14048.4	Contact arrangement				
Contact voltage drop	max	≤ 80mV @ 100A	4021: SPST-NO-DM				
Auxiliary Contact (when fitted)	Arrangement	SPST-NO (1 Form A)					
	Max. Current	5A @ 24VDC / 2A @ 48VDC	Body style				
	Min. Current	100mA @ 5V	28: Open frame, busbar terminations				
Coil							
Nominal Voltage (see page 2)	DC	12 ~ 120VDC (Tables 1 & 2)	Accessory options				
Rated power consumption		10~20W hold (non-latch), pulse15~30W (latch)	Blank: No option				
Working duty		Continuous (non-latching types)	S: Auxiliary switch				
Minimum pulse length (latch coil)		500ms	D: Parallel back emf diode suppression (standard coils)				
Insulation			T: Parallel TVS back emf suppression diode (bi-stable coils)				
Insulation resistance	Initial	100MΩ (Min.) @ 500VDC					
Dielectric strength coil to contact		1000V _{rms} (50/60Hz) / <1mA / 1 min (at sea level)	Mounting & terminations				
cc	ontact to contact	1000V _{rms} (50/60Hz, 1min, <1mA leakage)	Blank: No bracket				
General Data			1L: One "L" shaped mounting bracket				
Operate / bounce time at 20°C max.		30ms / 3ms	2L: Two "L" shaped mounting brackets				
Release time	max.	30ms	2P: Two "P" shaped mounting brackets				
Electrical life	at rated load	20,000 ops					
Mechanical life	no load	100,000 ops	Magnetic latching types:				
Environmental			For latching types, ensure square wave pulse length between				
Ambient temperature operating		-25°C to +65°C (Latching), +85°C (non-Latching)	500ms and 1s to allow contacts to settle and magnetic circuit to be fully established. Operating frequency should be no more				
Shock resistance		20g peak, 11ms 1/2 sine	than 6 ops/min. Continuous energisation is not allowed.				
Vibration resistance		3g sine peak (1-50Hz 0.5mm amplitude)					
Relative humidity	RH	20% ~ 90%					
Dimensions	L x W x H	89 x 38 x 80 mm (approx.)					
Weight	approx.	480g (varies according to options and coils)					

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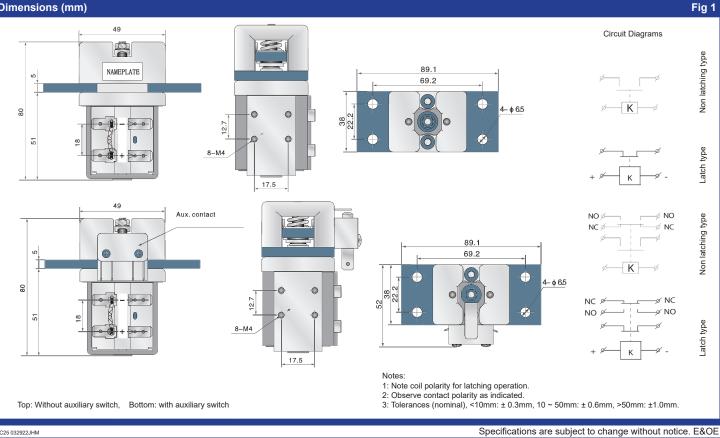
DSC25 series LVDC Contactor 250A / 60VDC

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	≤ 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	10 ~ 20W	
1060	60		≤ 42.0	≥ 6.0	≤ 0.25	10~2000	
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		

oil Data - Single co	il latch (bi-stable). Re	everse polarity throug	h coil to unlatch.			Table 2
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)
SL12	12	0.85Us ~ 1.2Us	≤ 9.6	≤ 9.6	≤ 2.00	Initial 15 ~ 35W Pulse length 0.5 ~ 1 sec. Continuous operation not permitted
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	

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

Dimensions (mm)



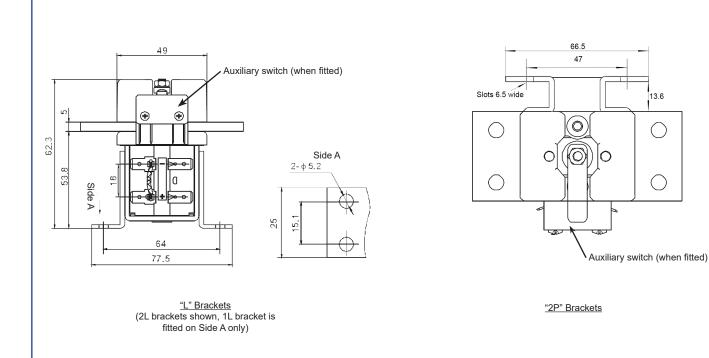
DSC25 032922JHM



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Fig 2

Mounting bracket dimensions (mm)



DSC25 032922JHM

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