





- Rated load: 80A at 60VDC
- 120VDC with Magnet arc blow-out option
- Auxiliary contact option
- Bi-stable (Latching) option
- Male or Female power terminals

Contacts         Contact arrangement       SPST-NO-DM         Contact material       AgCu Alloy         Max. switching voltage       DC 60V, 120V with magnetic blow-out.         Rated load (resistive, cos φ=1)       DC1 80A 60VDC         Working duty       Continuous         Terminal temperature rise above ambient       <70°C. IEC EN60947, GB14/14048.4         Contact voltage drop       max. ≤ 80mV @ 80A         Auxiliary Contact (when fitted)       Arrangement         SPST-NO (1 Form A)         Max. Current       5A @ 24VDC / 2A @ 48VDC	DSC 0 8 M - 4 0 2 1 - 2 8 - 1 0 2 4 - S D W  DSC Series 08: Standard 08M: Magnet arc blow-out* * See Note 2  Contact arrangement 4021: SPST-NO-DM  Body style					
Contact material  AgCu Alloy  Max. switching voltage  DC 60V, 120V with magnetic blow-out.  Rated load (resistive, cos φ=1)  DC1 80A 60VDC  Working duty  Continuous  Terminal temperature rise above ambient  Contact voltage drop  max. ≤ 80mV @ 80A  Auxiliary Contact (when fitted)  Arrangement  AgCu Alloy  60V, 120V with magnetic blow-out.  80A 60VDC  Continuous  Continuous  SPST-NO (1 Form A)	DSC Series  08: Standard  08M: Magnet arc blow-out*  * See Note 2  Contact arrangement  4021: SPST-NO-DM					
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Max. Current 5A @ 24VDC / 2A @ 48VDC	4021: SPST-NO-DM					
Min. Current 100mA @ 5V	Body style					
Coil	Body style					
Nominal Voltage (see page 2) DC 12 ~ 120VDC (Tables 1 & 2)						
Rated power consumption 5~9W hold (non-Latch), 20~35W 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 <sub>rms</sub> (50/60Hz) / <1mA / 1 min (at sea level)	S: Auxiliary switch					
contact to contact 2000V <sub>rms</sub> (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)	Circuit schematic					
Shock resistance 20g peak, 11ms 1/2 sine						
Vibration resistance 3g sine peak (1-50Hz 0.5mm amplitude)	Monostable Bi-stable					
Relative humidity RH 20% ~ 90%	Ø					
Dimensions L x W x H 32.8 x 36.9 x 84.2 mm (approx.)	ф <u>к</u> ф + ф <u>к</u> -					
Weight approx. 180g (varies according to options and coils)						

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



## DSC08 series

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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	≤ 0.6			
1024	24		≤ 16.8	≥ 2.4	≤ 0.25			
1030	30	0.85U₅ ~ 1.2U₅	≤ 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 ~ 9VV		
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			

Coil Data - Single coil latch (bi-stable). Reverse polarity through coil to unlatch.  Table 2								
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	0.85U₅ ~ 1.2U₅	≤ 9.6	≤ 9.6	≤ 2.0			
SL24	24		≤ 19.2	≤ 19.2	≤ 1.0			
SL30	30		≤ 24.0	≤ 24.0	≤ 0.70			
SL36	36		≤ 28.8	≤ 28.8	≤ 0.50	Initial		
SL48	48		≤ 38.4	≤ 38.4	≤ 0.40	20 ~ 35W		
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			
Other coils available u	pon special request N	IOΩ's will apply		•				

**Dimensions** Fig 1 No bracket, no auxiliary switch With bracket, no auxiliary switch No bracket, with auxiliary switch 15.2 NAMEPLATE NAMEPLATE 669 6669 84.2 63.4 2×M4-6H 2×M4-6H 63.4 Bracket position remains unchanged when auxiliary switch is fitted Notes: 1: Note coil polarity for latching operation. 2: For versions with magnet arc blow out option (DSC\*M) Observe contact polarity as indicated.Contactor life will be severely reduced if incorrectly connected.

3: Mounting screw depth is limited. With a 1.5mm thick bracket, spring washer and ordinary washer, maximum permitted screw size is M4 x 8mm to avoid damage to the coil. Thread must not extend more than 5.5mm after washers. See photo. 4: Nominal dimensions in mm.

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5: Tolerances (nominal), <10mm:  $\pm$  0.3mm, 10  $\sim$  50mm:  $\pm$  0.6mm, >50mm:  $\pm$ 1.0mm.