

- DURAKOOL





- Rated load: 1200A at 60VDC
- · Auxiliary contact option
- Bi-stable (Latching) option
- Busbar power terminations
- For battery storage applications

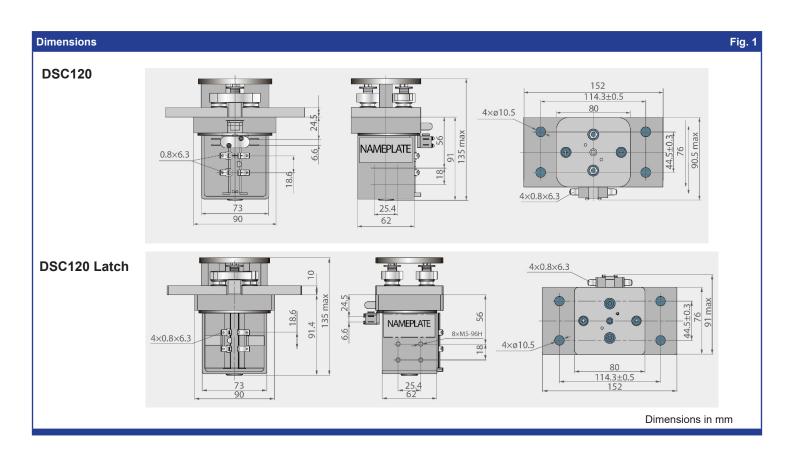
		UK CE CHUS ROHS Compliant			
Contacts		E305753 Ordering Code			
Contact arrangement	SPST-NO-DM				
Contact material	AgCu Alloy	DSC120 -4 0 2 1 - 2 8 -1 0 2 4 - S			
Max. switching voltage	DC 60VDC				
Rated load (resistive, cos φ=1)	C1 1200A 60VDC	DSC Series Coil codes			
Max. continuous thermal current	1200A	120: Standard See table 1			
Fault current breaking capacity (resistive)	3000A @ 60VDC (UL508)				
Terminal temperature rise above ambient	<70°C. IEC EN60947, GB14/14048.4	Contact arrangement			
Contact voltage drop	ax. ≤50mV @ 1200A	4021: SPST-NO-DM			
Auxiliary contact (when fitted) arranger	ent SPST-NO + SPST-NC				
max. cu	ent 5A @ 24VDC / 2A @ 48VDC	Body style			
min. cu	ent 100mA @ 5V	28: Open frame, busbar connections			
Coil					
Nominal Voltage (see Table 1)	DC 12, 24, 48, 60VDC	Accessory options			
Rated power consumption	15~25W hold (non-Latch), 50~70W pulse (Latch)	Blank: No option			
Working duty	Continuous (non-latching)	S: Auxiliary switch			
Insulation		Fitted with varistor for coil surge suppression as standard			
Insulation resistance i	tial 100MΩ (Min.) @500VDC				
life	end 50MΩ (Min.)	Mounting & terminations			
Dielectric strength coil to coil	act 2500V _{rms} (50/60Hz) / <1mA / 1 min (at sea level)	Blank: No bracket			
contact to co	tact 1500V _{rms} (50/60Hz) / <1mA / 1 min (at sea level)				
General Data					
Operate / bounce time at 20°C	ax. 60ms / 5ms	NB: Mounting orientation:			
Release time	60ms	The DSC120 may be mounted horizontally, but if mounted vertically, the coil should be positioned downwards.			
Electrical life at rated	6000 operations	Magnetic latching types:			
Mechanical life operation	1 x 10 ⁵	For latching types, ensure square wave pulse length between			
Environmental		500ms and 1s to allow contacts to settle and magnetic circuit to be fully established. Operating frequency should be no more than 6 ops/min. Continuous energisation is not allowed.			
Ambient temperature opera	ing -25°C to +65°C (Latching), +85°C (non-Latching)				
Shock resistance	≤4g, (60 ~ 100ops/min)				
Vibration resistance	≤3.5g sine peak (10 to 200Hz)				
Relative humidity	RH 20 to 90%				
Dimensions L x W	x H 135 x 90.5 x 152mm (over busbar terminations)				
Weight app	ox. 3.02kgs				

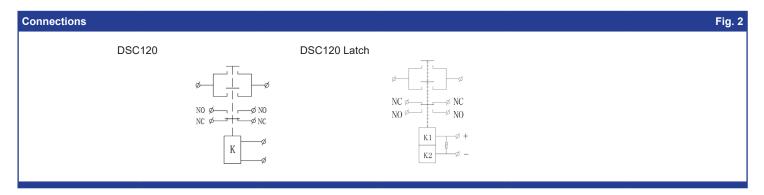
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DSC120 011023JHM



Coil Data Table 1							
Coil code	Nominal voltage (VDC) U₅	Coil working voltage range (V)	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	Coil power dissipation (W)	Holding current (A)	
DSC120 Standard (Mono-stable, non latching)							
1012	12	0.85Us ~ 1.1Us	8.4	1.2	15 ~ 25	≤2	
1024	24		16.8	2.4	15 ~ 25	≤1	
1048	48		33.6	4.8	15 ~ 25	≤0.7	
1060	60		42.0	6.0	15 ~ 25	≤0.5	
DSC120 Bi-stable, magnetic latching							
SL12	12	0.85U₅ ~ 1.1U₅	2.4 ~ 9.6	2.4 ~ 9.6	50 ~ 70		
SL24	24		4.8 ~ 19.2	4.8 ~ 19.2	50 ~ 70		
SL48	48		9.6 ~ 38.4	9.6 ~ 38.4	50 ~ 70		
SL60	60		12.0 ~ 48.0	12.0 ~ 48.0	50 ~ 70		
Other coils available upon special request. MOQ's will apply.							





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