



## NOT FOR NEW DESIGNS

- Normally closed (1D) contacts
- Rated load: 600A at 48VDC
- Double coil economiser
- Auxiliary contact option
- M12 power terminations
- Battery storage applications
- Electric vehicles and DC motors

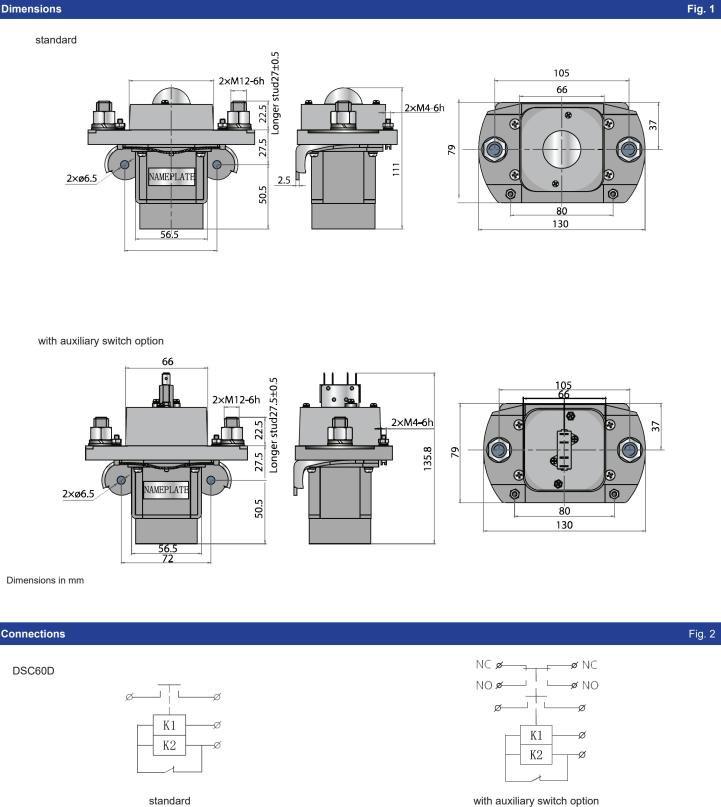
Contacts		E305753 Ordering Code				
Contact arrangement		SPST-NC-DB				
Contact material		AgCuO	DSC60D - 4 0 3 1 - 3 8 - 1 0 1 2			
Max. switching voltage DC		48VDC				
Rated load (resistive cos φ=1)	DC1	600A 48VDC	Series Coil code:			
Continuous thermal current max.		600A	See table 1			
Terminal temperature rise above ambient		<70°C. (IEC EN60947, GB14/140484)	Contact arrangement 4031: SPST-NC-DB			
Voltage drop		≤80mV @ 600A				
	arrangement	SPST-NO + SPST-NC				
Auxiliary contact (when fitted)	max. current	5A @ 24VDC / 2A @ 48VDC	Body style			
	min. current	100mA @ 5VDC	38: Enclosed, M12 Male stud power terminals			
Coil						
Nominal voltage DC		12, 24, 48, 60VDC - see table 1	Accessory options			
Nominal "on hold" power consumption max		30W (@ 12VDC)	Blank: No options			
Working duty		Continuous	S: Auxiliary switch			
Insulation						
Insulation resistance initial		100MΩ (Min.) @500VDC	Power terminal options			
life end		50MΩ (Min.)	Blank: Standard - 22.5mm length			
Dielectric strength coil to contact		1000Vrms (50/60Hz) / <1mA / 1 min (at sea level)	L: Extended terminals - 27.5mm length			
C	ontact to contact	1000Vrms (50/60Hz) / <1mA / 1 min (at sea level)				
General Data			NB: Mounting orientation: The DSC60D may be mounted horizontally, but if mounted vertically, the coil should be positioned downwards, with the			
Operate time inc. bounce at 20°C		<50ms				
Release time		<50ms				
Electrical life (at rated load)	ops.	6,000 operations	terminals uppermost.			
Mechanical life	ops.	1 x 10⁵				
Environmental						
Ambient temperature operating		-40°C to +65°C				
Relative humidity		20 to 90%RH				
Shock resistance		≤4g, (60 ~ 100ops/min)				
Vibration resistance		≤3.5g sine peak (10 to 200Hz)				
Dimensions	L x W x H	111 x 79 x 130mm (excluding aux.switch)				
Weight	approx.	1500g				

## DURAKOOL

## **DSC60D** Series LVDC NC Contactor 600A / 48VDC

Coil Data Table 1								
Coil code	Nominal voltage (VDC) U₅	Working voltage range (V)	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	Starting current (A)	Holding current (A)		
1012	12	0.85U₅ ~ 1.1U₅	8.4	1.2	≤ 13.0	≤ 2.5		
1024	24		16.8	2.4	≤ 13.0	≤ 0.5		
1048	48		33.6	4.8	≤ 6.0	≤ 0.2		
1060	60		42.0	6.0	≤ 3.0	≤ 0.2		

## Dimensions



DSC60D 112123JHM (NFND)

Specifications are subject to change without notice. E&OE