



- Rated load: 400A at 48VDC
- Double coil economiser
- Auxiliary contact option
- M10 Power terminations
- Battery storage applications
- Electric vehicles and DC motors

Contacts		Ordering Code				
Contact arrangement		SPST-NO-DM				
Contact material		AgCuO	DJQ40-4021-38-1012-			
Max. switching voltage DC		48VDC				
Rated load (resistive cos φ=1)	DC1	400A 48VDC	Series Coil code:			
Continuous thermal current max.		400A	See table 1			
Terminal temperature rise above ambient		<70°C. (IEC EN60947, GB14/140484)	Contact arrangement			
Voltage drop		≤80mV @ 400A	4021: SPST-NO-DM			
	arrangement	SPST-NO + SPST-NC				
Auxiliary contact (when fitted)	max. current	5A @ 24VDC / 2A @ 48VDC	Body style			
	min. current	100mA @ 5VDC	38: Enclosed, M10 Male stud power terminals			
Coil						
Rated voltage DC		12, 24, 48, 60VDC - see table 1	Accessory options			
Nominal "on hold" power consumption max		12W	Blank: No options			
Working duty		Continuous	S: Auxiliary switch			
Insulation			M: Dust-proof sealing ring			
		100MΩ (Min.) @500VDC				
		50MΩ (Min.)	Power terminal options			
Dielectric strength coil to contact		1000Vrms (50/60Hz) / <1mA / 1 min (at sea level)	Blank: Standard - 17mm length			
(contact to contact	1000Vrms (50/60Hz) / <1mA / 1 min (at sea level)	L: Extended terminals - 27mm length			
General Data						
Operate time inc. bounce at 20°C		<50ms	NB:			
Release time		<50ms	Mounting orientation: The DJQ40 may be mounted horizontally, but if mounted vertically, the coil should be positioned downwards, with the			
Electrical life (at rated load)	ops.	50,000 (resistive)				
Mechanical life	ops.	1 x 10 ⁵	terminals uppermost.			
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	108 x 65 x 104mm (excluding aux.switch)				
Weight	approx.	1020g				

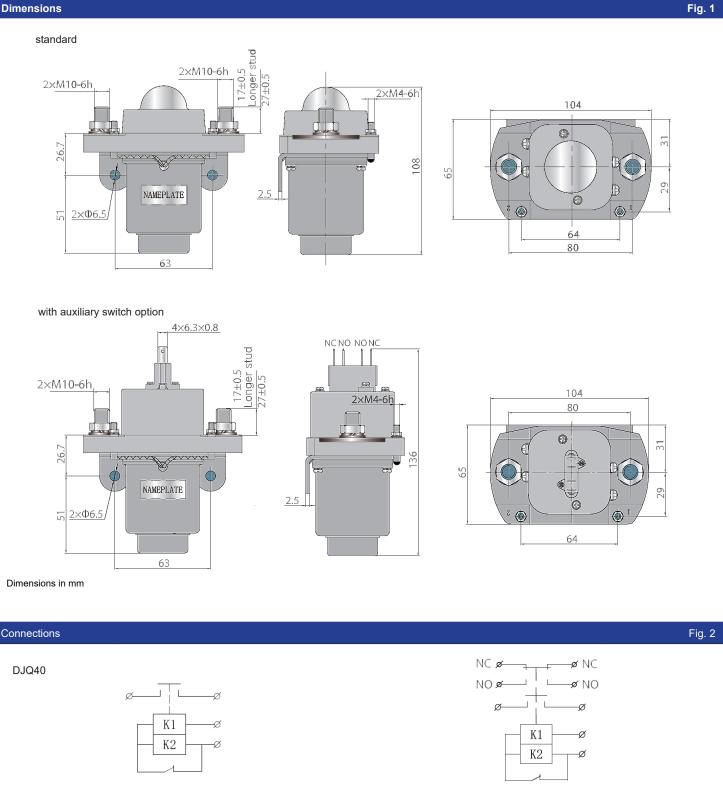
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DJQ40 Series LVDC Contactor 400A / 48VDC

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	≤ 9.0	≤ 0.9
1024	24		16.8	2.4	≤ 6.0	≤ 0.5
1048	48		33.6	4.8	≤ 3.0	≤ 0.2
1060	60		42.0	6.0	≤ 3.0	≤ 0.2

Dimensions



standard

DJQ40 122321FW

Specifications are subject to change without notice. E&OE

with auxiliary switch option