



- 400A at 120VDC
- Max. switching current = 4000A
- OFC contacts sealed in inert gas
- Magnet arc blowout
- IP67 fully sealed design
- Auxiliary contact option
- Male or Female power terminals

Contacts		Ordering Code	
Contact arrangement	SPST-NO-DM		
Contact material	Oxygen Free Copper (Cu. C10200)	D L V C 4 0 0 - 4 0 6 1 - S 8 - 1 0 1 2 - R 1	
	2 120VDC (DLVC400M)		
	400A 80VDC	Series Coil code:	
	400A, 500A with 300mm ² , or larger, conductors	DLVC400: standard See table 1	
	5 600A	DLVC400M: 120VDC with	
Terminal temperature rise above ambient	<70°C. IEC EN60947 GB14/14048.4	magnet arc blowout	
· · · · · · · · · · · · · · · · · · ·	4000A@48VDC		
	. 160mV @ 400A	Contact material	
	t SPST-NO (1 Form A)	40: Cu. C10200	
	t 2A @ 24VDC / 3A @ 125VAC		
	t 100mA@8V	Contact arrangement	
Coil		61: SPST-NO	
	2 12, 24, 48, 60VDC - see Table 1, page 2	71: SPST-NO + Auxiliary	
	12~13.5W		
Insulation		Mounting & terminations	
Insulation resistance initia	100MΩ (Min.) @500VDC	Bottom mount	
life en	50MΩ (Min.)	B8: M8 male stud power terminals	
Dielectric strength coil to contact	t 2200Vrms / <1mA / 1 min (at sea level)	B9: M8 female power terminals	
contact to contact	t 2200Vrms / <1mA / 1 min (at sea level)	Side mount	
General Data		S8: M8 male stud power terminals	
Operating time at 20°C max	. 40ms	S9: M8 female power terminals	
Release time at 20°C max	. 10ms		
Bounce time at 20°C max	. 5ms	Coil wire & auxiliary wire (when fitted) length	
Electrical life	9,000 operations @ 60VDC (see Fig. 1)	R: 390mm	
Mechanical life	3 x 10 ⁵	T: 150mm	
Environmental			
Environmental protection	IP67		
Ambient temperature operating	g -40 to +85°C	Coil wire & auxiliary contact termination	
Relative humidity	20 to 90%RH	1: None (bare ends)	
Shock resistance	20G peak, 11ms 1/2 sine	3: Mini-fit female (see Fig. 3)	
Vibration resistance	20G sine peak (80 to 2000Hz)		
Dimensions L x W x H	59.6 x 58.2 x 93.8mm (approx.) - see Fig. 4.		
Weight	650g		



DLVC400 Series DC Contactor 400A / 120VDC

Coil Data					Table 1
Coil code	Nominal voltage (VDC) Us	Coil operating range (V)	Must operate voltage max. VDC)	Must release voltage min. (VDC)	Coil Resistance ± 10% Ω @ 20°C
1012	12	0.85U₅ ~ 1.2U₅	9	1	11
1024	24	0.85U₅ ~ 1.2U₅	18	2	44
1048	48	0.85U₅ ~ 1.2U₅	36	4	170
1060	60	0.85U₅ ~ 1.2U₅	45	5	275
Other coils available upon special request. MOQ's will apply.					

Fig. 1

* Extrapolated data

Electrical Performance

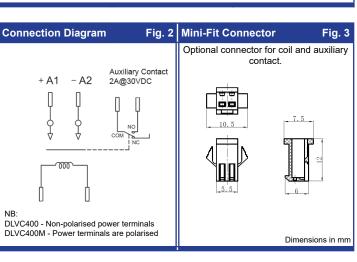
Electrical Life:

Test Current: 400A Ambient Temp: 20°C Test Interval: 5.4s OFF, 0.6s ON

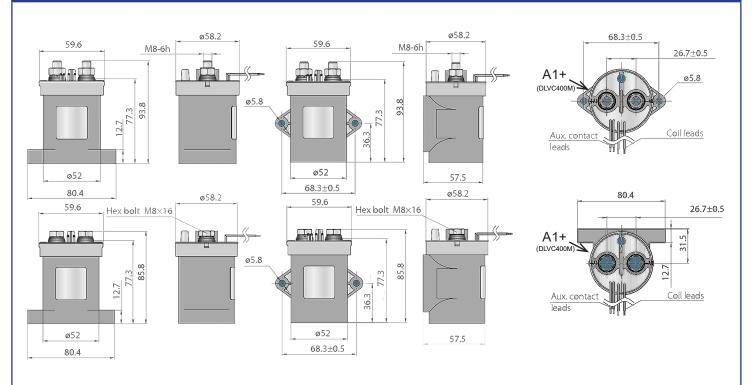
Test Voltage: 48VDC, 60VDC (DLVC400) Electrical Life: 9000 ops

Test Voltage: 80VDC Electrical Life: 8000 ops*

Test Voltage: 120VDC (DLVC400M) Electrical Life: 3000 ops



Dimensions



Notes:

- 1: Polarity sensitive type, DLVC400M: Observe contact polarity as indicated. Contactor life will be severely reduced if incorrectly connected.
- 2: Nominal dimensions in mm.
- 3: Tolerances (nominal), <10mm: ± 0.3mm, 10 ~ 50mm: ± 0.6mm, >50mm: ± 1.0mm.
- 4: Power contact (M8) nut torque = 8 ~ 10Nm, Installation/mounting torque = 1.7 ~ 3.5Nm.
- 5: Coil wire length and terminations can be customized upon request.
- 6: Coil and auxiliary contact wires: Teflon insulated UL1887 20AWG
- 7: Main contacts should be connected with cable section of more than 240mm², if used at maximum rated current.

Fig. 4