

DLVC400 Series DC Contactor 400A / 120VDC

RoHS



- 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

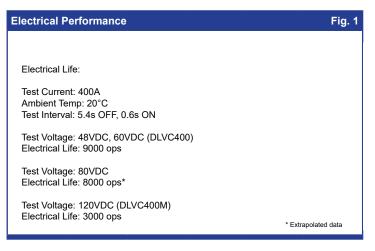
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Contacts		Ordering Code		
Contact arrangement	SPST-NO-DM			
Contact material	Oxygen Free Copper (Cu. C10200)	DLVC400-4061-S8-1012-R1		
Max. switching voltage	DC 120VDC (DLVC400M)			
Rated load (resistive, cos φ=1)	DC1 400A 80VDC	Series Coil code:		
Max continuous thermal current	DC1 400A, 500A with 300mm², or larger, conductors	DLVC400: standard See table 1		
	30s 600A	DLVC400M: 120VDC with		
Terminal temperature rise above ambient	<70°C. IEC EN60947 GB14/14048.4	magnet arc blowout		
Max switching current 1 tim	only 4000A @ 48VDC			
Contact voltage drop	max. 160mV @ 400A	Contact material		
Auxiliary contact (when fitted) arrange	nent SPST-NO (1 Form A)	40: Cu. C10200		
max. c	rrent 2A @ 24VDC / 3A @ 125VAC			
min. c	rrent 100mA @ 8V	Contact arrangement		
Coil		61: SPST-NO		
Nominal voltage	DC 12, 24, 48, 60VDC - see Table 1, page 2	71: SPST-NO + Auxiliary		
Rated power consumption	hold 12 ~ 13.5W			
Insulation		Mounting & terminations		
Insulation resistance	nitial 100MΩ (Min.) @500VDC	Bottom mount		
lit	end 50MΩ (Min.)	B8: M8 male stud power terminals		
Dielectric strength coil to co	ntact 2200Vrms / <1mA / 1 min (at sea level)	B9: M8 female power terminals		
contact to c	ntact 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	Coil wire & auxiliary contact termination		
Ambient temperature ope	ating -40 to +85°C	1: None (bare ends)		
Relative humidity	20 to 90%RH	3: Mini-fit female (see Fig. 3)		
Shock resistance	20G peak, 11ms 1/2 sine			
Vibration resistance	20G sine peak (80 to 2000Hz)			
Dimensions L x	/ x H 59.6 x 58.2 x 93.8mm (approx.) - see Fig. 4.			
Weight	650g			

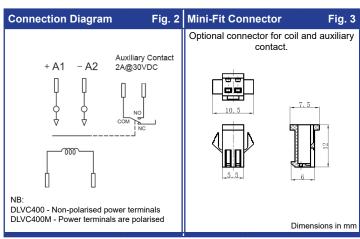
Specifications are subject to change without notice. E&OE.

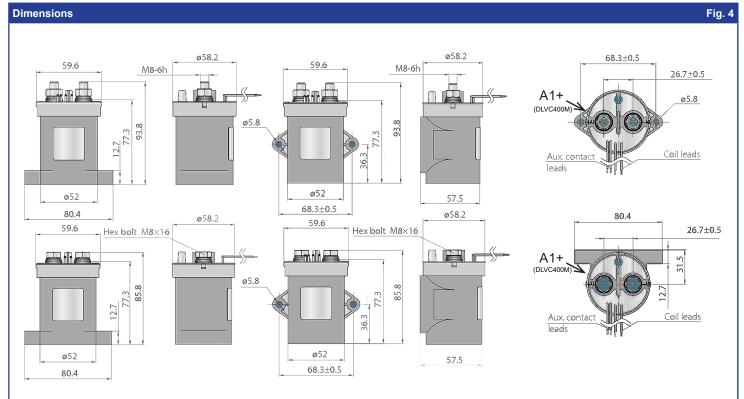


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Coil Data Table 1							
Coil code	Nominal voltage (VDC) U _s	Coil operating range (V)	Must operate voltage max. VDC)	Must release voltage min. (VDC)	Coil Resistance ± 10% Ω @ 20°C		
1012	12	0.85U₅ ~ 1.2U₅	9	1	11		
1024	24	0.85U₅ ~ 1.2U₅	18	2	44		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







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 customised 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.

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