



## DCC series ( DC Contactor ) DCC 系列 ( 直流接触器 )

### Features

- **1 Form A ( SPST-NO ) contact arrangement**
- **Arc-cutoff technology- Double contacts in series and permanent magnet** 先进的灭弧技术 — 双触点串联和磁吹弧
- **Starting current is unnecessary** 不需要起动电流
- **Compact and lightweight for space savings.** 尺寸小, 便于安装
- **DC-1 Utilization category, fulfill IEC 60947-4-1 / GB 14048.4**
- **Typical applications: electric control system of electromobile, motor forklift, grab, vehicle air conditioner, communication power supply, Construction machinery, and UPS**



### Contact data @ 20°C (触点数据 @ 20°C)

<b>Arrangement (接点排列)</b>	1 Form A ( SPST-NO)	
<b>Contact Material (接点材料)</b>	Silver alloy	
<b>Contact Voltage Drop Initially (接点电压降)</b>	Max. 0.15V@100A	
<b>Nominal Switching Capacity (resistive load) (额定切换功率)</b>	48VDC 100A	48VDC 200A
<b>Minimum Switching Voltage (最小切换能力)</b>	12VDC 1A	
<b>Initial Contact Resistance (初始接触电阻)</b>	50mΩ Max@ 6V,1A	
<b>Expected Mechanical Life (机械寿命)</b>	100,000 cycles	
<b>Expected Electrical Life (电气寿命)</b>	20,000 cycles operates@ DC-1	
<b>Max Switching Rate (最大开关速率)</b>	6 cycles/min (10% duty)	

### Coil data @ 20°C (线圈数据 @ 20°C)

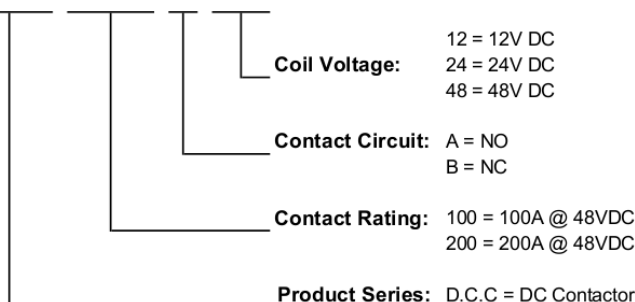
<b>Nominal Voltage (额定线圈电压)</b>	12VDC,24 VDC,48VDC
<b>Nominal Coil Power (额定线圈功率)</b>	5 W
<b>Operate Voltage (吸合电压)</b>	≤ 65% of nominal voltage
<b>Release Voltage (释放电压)</b>	≥ 5% of nominal voltage

### Operate Data @ 20°C (工作资料 @ 20°C)

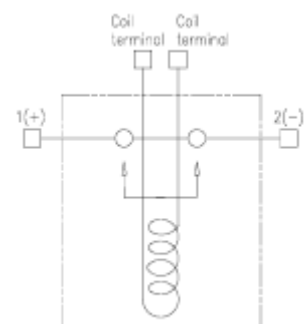
Coil Code	Nominal Voltage (VDC)	Operate Voltage (VDC)	Release Voltage (VDC)	Maximum Voltage (VDC)	Coil Resistance (Ω)	Coil Current (A)	Operate Time (ms)	Release Time (ms)
48	48	≤ 31.2	≥ 2.4	52.8	480±10%	0.1	< 25	< 10
24	24	≤ 15.6	≥ 1.2	26.4	115±10%	0.2	< 25	< 10
12	12	≤ 7.8	≥ 0.6	13.2	29±10%	0.4	< 25	< 10

### Ordering Information (命名法)

D C C 2 0 0 A - 2 4



### Circuit Diagram (线路原理图)



### Insulation (绝缘数据)

<b>Dielectric Strength (介质耐压)</b>	Coil and contacts: 2,000 V <sub>rms</sub> / min Open contacts : 1500 V <sub>rms</sub> / min
<b>Surge Voltage between Coil-Contacts (耐浪涌电压)</b>	5,000 V
<b>Insulation Resistance (绝缘电阻)</b>	>100x10 <sup>6</sup> Ω@500VDC

### Environment Data (环境数据)

<b>Temperature Range (使用温度范围)</b>	-40°C ~ +85°C
<b>Vibration Resistance (抗振能力)</b>	Functional: 10~200Hz 5G Destructive: 10~200Hz 5G
<b>Shock Resistance (抗冲击能力)</b>	Functional: 5G/11ms Destructive: 100G/6ms
<b>Operating Humidity (工作湿度)</b>	20 to 85%RH

### Other Data (其他数据资料)

<b>Flammability (阻燃能力)</b>	UL94 V-0
<b>Enclosure type (封装类型)</b>	Sealed plastic cover
<b>Weight (重量)</b>	Approx. 310g
<b>Installation direction (安装方向)</b>	Vertical

### Outline Dimensions (外形尺寸) (mm)

