

# EV Power - DC200 Contactor

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

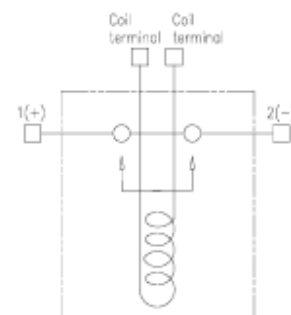
## Coil data @ 20°C (线圈数据 @ 20°C)

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

## Circuit Diagram (线路原理图)



**Insulation** (绝缘数据)

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

**Environment Data** (环境数据)

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

**Other Data** (其他数据资料)

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

**Outline Dimensions** (外形尺寸) (mm)