



## DC Contactor 直流接触器 WM816

L×W×H(mm):86×52×66



- 1 Form A ( SPST-NO ) contact arrangement
- Arc-cutoff technology- Double contacts in series and permanent magnet;
- Starting current is unnecessary;
- Compact and lightweight for space savings;
- 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.

## Ordering Information 订货说明

| <b>WM816</b>                                               | <b>- 200A</b> | <b>12</b> |
|------------------------------------------------------------|---------------|-----------|
| 1                                                          | 2             | 3         |
| 1 Part number 型号: WM816                                    |               |           |
| 2 Contact Rating 触点负载: 200A: 200A@48VDC                    |               |           |
| 3 Coil rated Voltage(VDC)线圈额定电压: 12: 12V; 24: 24V; 48: 48V |               |           |

## Contact Data 触点参数

|                                              |                              |
|----------------------------------------------|------------------------------|
| Contact Form 触点形式                            | 1A (SPSTNO)                  |
| Contact Material 触点材料                        | Silver alloy                 |
| Contact Rating (resistive)触点负载 (阻性)          | 200A/48VDC                   |
| Minimum Switching Voltage 最小切换能力             | 12VDC 1A                     |
| Max. Switching Power 最大切换功率                  | 9600W                        |
| Contact Resistance or Voltage drop 接触电阻或接触压降 | ≤50mΩ@ 6V,1A                 |
| Electrical Life 电气寿命                         | 20,000 cycles operates@ DC-1 |
| Mechanical Life 机械寿命                         | 100,000 cycles               |
| Max Switching Rate 最大开关速率                    | 6 cycles/min (10% duty)      |

## Coil Parameter 线圈参数

| Dash numbers<br>规格 | Coil voltage<br>线圈电压(VDC) |            | Coil resistance<br>线圈电阻<br>Ω±10% | Pickup voltage<br>VDC(Max.)<br>最大起动电压 | Release voltage<br>VDC(Min.)<br>最小释放电压 | Coil power<br>线圈功率 | Operate Time<br>起动时间 | Release Time<br>释放时间 |
|--------------------|---------------------------|------------|----------------------------------|---------------------------------------|----------------------------------------|--------------------|----------------------|----------------------|
|                    | Rated<br>额定               | Max.<br>最大 |                                  |                                       |                                        |                    |                      |                      |
| 12V                | 12                        | 13.2       | 29                               | 7.8                                   | 0.6                                    | 5W                 | <25 ms               | <10 ms               |
| 24V                | 24                        | 26.4       | 115                              | 15.6                                  | 1.2                                    |                    |                      |                      |
| 48V                | 48                        | 52.8       | 480                              | 31.2                                  | 2.4                                    |                    |                      |                      |

**Operation condition 工作条件**

|                                           |                           |                                                    |
|-------------------------------------------|---------------------------|----------------------------------------------------|
| Insulation Resistance 绝缘电阻                |                           | 100MΩ Min. (at 500VDC)                             |
| Dielectric Strength<br>介质耐压               | Between Contacts          | 50Hz 1500VAC / 1 minute                            |
|                                           | Between Coil and Contacts | 50Hz 2000VAC / 1 minute                            |
| Surge Voltage between Coil-Contacts 耐浪涌电压 |                           | 5,000 V                                            |
| Shock resistance 抗冲击                      |                           | Functional: 5G/11ms, Destructive: 100G/6ms         |
| Vibration resistance 抗震                   |                           | Functional: 10~200Hz 5G , Destructive: 10~200Hz 5G |
| Ambient Temperature 环境温度                  |                           | -25℃ ~ +70℃                                        |
| Relative Humidity 相对湿度                    |                           | 20% ~ 85% (at 40℃)                                 |
| Installation direction (安装方向)             |                           | Vertical                                           |
| Weight 重量(Approx.)                        |                           | 310g                                               |

**Layout (Bottom views, Unit: mm)外形尺寸、接线图 (底视图)**