

YL270

特点 PRODUCT FEATURES

- 最大连续电流100A
- 可切断100A电流
- 塑封型产品的初始状态防护等级达IP6K7
- 适用于波峰焊的焊接条件
- 体积小

典型应用 TYPICAL APPLICATIONS

- 电源管理系统(BMS)
- 锂电储能
- iPC-M离网储能
- UPS
- 电池断路装置
- 汽车空调
- 冷却风扇控制
- 加热控制



触点负载 CONTACT DATA

|        |                       |                    |                      |
|--------|-----------------------|--------------------|----------------------|
| 型号     | Model                 | YL270              |                      |
| 额定负载   | Rated load            | 70A 14VDC          | 100A 14VDC           |
|        |                       | 800A/0.5秒, 700A/1秒 | 1200A/0.5秒, 1000A/1秒 |
| 最大切换电流 | Max.Switching Current | 100A               |                      |
| 最大切换电压 | Max.Switching Voltage | 36VDC              |                      |
| 最大切换功率 | Max.Switching Power   | 1400W              |                      |

性能参数 GENERAL DATA

|      |                       |                    |                         |                          |
|------|-----------------------|--------------------|-------------------------|--------------------------|
| 触点材料 | Contact material      | Silver Alloy       |                         |                          |
| 接触电阻 | Contact resistance    | 50mΩ Max.          |                         |                          |
| 吸合时间 | Operate Time          | 10msec. Max.       |                         |                          |
| 释放时间 | Release time          | 10msec. Max.       |                         |                          |
| 绝缘电阻 | Insulation resistance | 100MΩ Min.(DC500V) |                         |                          |
| 介质耐压 | Dielectric strength   | 触点与触点间             | Between open contacts   | AC 500V , 50/60Hz 1min.  |
|      |                       | 触点与线圈间             | Between coil & contacts | AC 500V , 50/60Hz 1min.  |
| 抗振动  | Humidity              | 稳定性                | Functional              | 10 ~ 55Hz , 双振幅 1.5 mm   |
|      |                       | 强度                 | Destructive             | 10 ~ 55Hz , 双振幅 1.5 mm   |
| 抗冲击  | Shock Resistance      | 稳定性                | Functional              | 20G Min                  |
|      |                       | 强度                 | Destructive             | 100G Min.                |
| 寿命   | Life                  | 机械寿命               | Mechanical Life         | 10,000,000 次 (7,200次/小时) |
|      |                       | 电气寿命               | Electrical Life         | 100,000 次 (360次/小时)      |
| 环境温度 | Temperature Range     | -40℃ ~ +85℃(不结冰)   |                         |                          |
| 重量   | Weight                | 约35g               |                         |                          |

## YL270

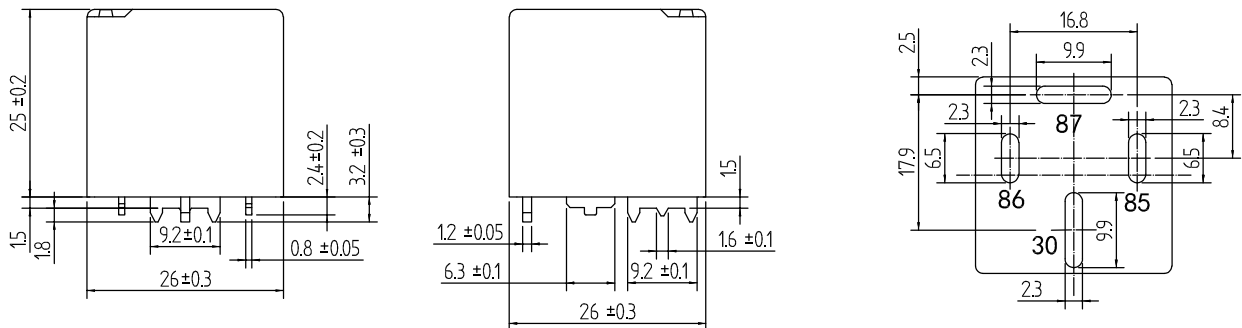
线圈参数 (at 23°C) COIL DATE

| 额定电压 (VDC) | 额定电流 $\pm 10\%$ (mA) | 线圈电阻 $\pm 10\%$ ( $\Omega$ ) | 并联电阻 ( $\Omega$ ) | 等效电阻 ( $\Omega$ ) | 吸合电压 (Max.) | 释放电压 (Min.) | 最大允许电压    | 线圈功率 (W) |
|------------|----------------------|------------------------------|-------------------|-------------------|-------------|-------------|-----------|----------|
| 12         | 133.3                | 90                           | ----              | ----              | 额定电压的66%    | 额定电压的8%     | 额定电压的150% | 1.6      |
| 24         | 66.7                 | 360                          | ----              | ----              |             |             |           | 1.8      |
| 12         | 119.1                | 110                          | ----              | ----              |             |             |           | 1.3      |
| 24         | 39.1                 | 384                          | ----              | ----              |             |             |           | 1.5      |

订货标记 ORDERING INFORMATION

|                                                         |                                  |    |      |    |    |     |     |
|---------------------------------------------------------|----------------------------------|----|------|----|----|-----|-----|
| 产品型号<br>Type                                            | YL270                            | -A | -12V | -P | -F | -70 | -XX |
| 触点形式<br>Contact Form                                    | A                                |    |      |    |    |     |     |
| 线圈规格<br>Coil Specification                              | 12VDC, 24VDC                     |    |      |    |    |     |     |
| 引出脚方式<br>Termination                                    | P:PCB 无:插入式<br>P:PCB NIL:Plug-in |    |      |    |    |     |     |
| 封装形式<br>Package Form                                    | 无-防尘式, F-塑封                      |    |      |    |    |     |     |
| 负载电流<br>Load Current                                    | 70:70A 100:100A 120:120A         |    |      |    |    |     |     |
| 特殊参数或特殊要求<br>Special Parameters Or Special Requirements |                                  |    |      |    |    |     |     |

外形尺寸、接线图 (单位: mm) OUTLINE DIMENSIONS, WIRING DIAGRAM

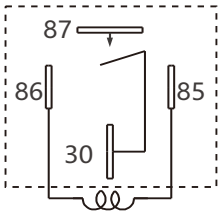


未标注尺寸公差 / Undimensioned tolerance: <1mm:±0.2mm 1~5mm:±0.3mm >5mm:±0.4mm

注: 1、引出脚尺寸为预焊前尺寸 2、安装孔尺寸公差: ±0.1mm

Note: 1.The size of the lead foot is pre welding dimension. 2. installation hole size tolerance:±0.1mm

YL270



接线图(底视图)

性能曲线图 CHARACTERISTIC CURVES

