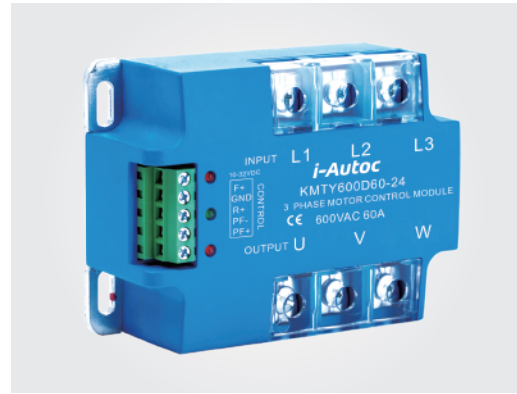


产品描述 ▶

KMTY系列的电机正反转控制模块是专门为三相电机控制开发的。控制回路包含逻辑互锁、延时电路，正、反转之间切换时间大于80ms。内置自动纠相、缺相保护功能，应用于电机控制场合。

- ◆ 10-32VDC范围控制输入
- ◆ 内置RC和MOV保护
- ◆ 高EMC设计
- ◆ 介质耐压：4000Vrms
- ◆ 具有自动纠相和缺相保护的功能(可选)



产品选型 ▶

|             |                                    |          |  |                           |                  |                     |                  |                         |
|-------------|------------------------------------|----------|--|---------------------------|------------------|---------------------|------------------|-------------------------|
| <b>KMTY</b> | <b>480</b>                         | <b>D</b> | <b>25</b>  | <b>R</b>                  | <b>P</b>         | <b>-24</b>          | <b>F</b>         | <b>-N</b>               |
| KMTY系列      | 负载电压<br>480: 480VAC<br>600: 600VAC | 直流控制     | 负载电流<br>25:25Amp<br>40:40Amp<br>60:60Amp<br>80:80Amp | 触发方式:<br>无:过零导通<br>R:随机导通 | 无:共负控制<br>P:共正控制 | 控制电压<br>24:10~32VDC | F:三相三控<br>无:三相两控 | 无:带缺相纠相功能<br>N:不带缺相纠相功能 |

具体型号以下表罗列为准

| 控制方式               | 类型                 | 25A                | 40A                | 60A               | 80A               |
|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|
| 共负                 | 三相两控               | KMTY480D25-24      | KMTY480D40-24      | KMTY480D60-24     | KMTY480D80-24     |
|                    |                    | KMTY600D25-24      | KMTY600D40-24      | KMTY600D60-24     | KMTY600D80-24     |
|                    |                    | KMTY480D25R-24     | KMTY480D40R-24     | KMTY480D60R-24    | KMTY480D80R-24    |
|                    |                    | KMTY600D25R-24     | KMTY600D40R-24     | KMTY600D60R-24    | KMTY600D80R-24    |
|                    |                    | KMTY480D25-24-N    | KMTY480D40-24-N    | KMTY480D60-24-N   | KMTY480D80-24-N   |
|                    |                    | KMTY600D25-24-N    | KMTY600D40-24-N    | KMTY600D60-24-N   | KMTY600D80-24-N   |
|                    | 三相三控               | KMTY480D25R-24-N   | KMTY480D40R-24-N   | KMTY480D60R-24-N  | KMTY480D80R-24-N  |
|                    |                    | KMTY600D25R-24-N   | KMTY600D40R-24-N   | KMTY600D60R-24-N  | KMTY600D80R-24-N  |
|                    |                    | KMTY480D25-24F     | KMTY480D40-24F     | KMTY480D60-24F    | KMTY480D80-24F    |
|                    |                    | KMTY600D25-24F     | KMTY600D40-24F     | KMTY600D60-24F    | KMTY600D80-24F    |
|                    |                    | KMTY480D25R-24F    | KMTY480D40R-24F    | KMTY480D60R-24F   | KMTY480D80R-24F   |
|                    |                    | KMTY600D25R-24F    | KMTY600D40R-24F    | KMTY600D60R-24F   | KMTY600D80R-24F   |
| 共正                 | 三相两控               | KMTY480D25P-24     | KMTY480D40P-24     | KMTY480D60P-24    | KMTY480D80P-24    |
|                    |                    | KMTY600D25P-24     | KMTY600D40P-24     | KMTY600D60P-24    | KMTY600D80P-24    |
|                    |                    | KMTY480D25RP-24    | KMTY480D40RP-24    | KMTY480D60RP-24   | KMTY480D80RP-24   |
|                    |                    | KMTY600D25RP-24    | KMTY600D40RP-24    | KMTY600D60RP-24   | KMTY600D80RP-24   |
|                    |                    | KMTY480D25P-24-N   | KMTY480D40P-24-N   | KMTY480D60P-24-N  | KMTY480D80P-24-N  |
|                    |                    | KMTY600D25P-24-N   | KMTY600D40P-24-N   | KMTY600D60P-24-N  | KMTY600D80P-24-N  |
|                    | 三相三控               | KMTY480D25RP-24-N  | KMTY480D40RP-24-N  | KMTY480D60RP-24-N | KMTY480D80RP-24-N |
|                    |                    | KMTY600D25RP-24-N  | KMTY600D40RP-24-N  | KMTY600D60RP-24-N | KMTY600D80RP-24-N |
|                    |                    | KMTY480D25P-24F    | KMTY480D40P-24F    | KMTY480D60P-24F   | KMTY480D80P-24F   |
|                    |                    | KMTY600D25P-24F    | KMTY600D40P-24F    | KMTY600D60P-24F   | KMTY600D80P-24F   |
|                    |                    | KMTY480D25RP-24F   | KMTY480D40RP-24F   | KMTY480D60RP-24F  | KMTY480D80RP-24F  |
|                    |                    | KMTY600D25RP-24F   | KMTY600D40RP-24F   | KMTY600D60RP-24F  | KMTY600D80RP-24F  |
| KMTY480D25P-24F-N  | KMTY480D40P-24F-N  | KMTY480D60P-24F-N  | KMTY480D80P-24F-N  |                   |                   |
| KMTY600D25P-24F-N  | KMTY600D40P-24F-N  | KMTY600D60P-24F-N  | KMTY600D80P-24F-N  |                   |                   |
| KMTY480D25RP-24F-N | KMTY480D40RP-24F-N | KMTY480D60RP-24F-N | KMTY480D80RP-24F-N |                   |                   |
| KMTY600D25RP-24F-N | KMTY600D40RP-24F-N | KMTY600D60RP-24F-N | KMTY600D80RP-24F-N |                   |                   |

技术参数 ▶

| 输入参数 (Ta=25°C) |  |             |
|----------------|--|-------------|
| 控制电压范围         |  | 10-32VDC    |
| 确保导通电压         |  | 10VDC       |
| 确保关断电压         |  | 4VDC        |
| 最大控制电流         |  | 35 mA@32VDC |
| 最小正反转切换时间间隔    |  | 80±10ms     |

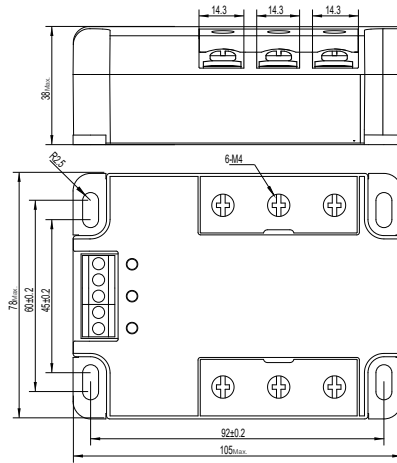
| 输出参数 (Ta=25°C)              |        |                      |
|-----------------------------|--------|----------------------|
| 负载电压范围                      | 480VAC | 24-530VAC            |
|                             | 600VAC | 24-660VAC            |
| 最大瞬态电压                      | 480VAC | 1200Vpk              |
|                             | 600VAC | 1600Vpk              |
| 最小负载电流                      |        | 100mA                |
| 最大关断时间                      |        | 20ms                 |
| 最大浪涌电流 (@10ms)              | 25a    | 250A                 |
|                             | 40A    | 400A                 |
|                             | 60A    | 600A                 |
|                             | 80A    | 800A                 |
| 最大断态漏电流 (在额定电压下)            |        | 5mA                  |
| 最大导通压降 (在额定电流下)             |        | 1.7Vrms              |
| 最大I <sup>2</sup> t值 (@10ms) | 25A    | 312A <sup>2</sup> s  |
|                             | 40A    | 800A <sup>2</sup> s  |
|                             | 60A    | 1800A <sup>2</sup> s |
|                             | 80A    | 3200A <sup>2</sup> s |
| 断态电压指数上升率dv/dt              |        | 500V/μs              |

| 其它参数 (Ta=25°C)   |              |                    |
|------------------|--------------|--------------------|
| 介质耐压 (50Hz/60Hz) | 输入/输出        | 4000Vrms           |
|                  | 输入,输出/底板     | 2500Vrms           |
| 绝缘电阻 (@500VDC)   |              | 1000MΩ             |
| 工作温度范围           |              | -30°C ~ +80°C      |
| 储存温度范围           |              | -30°C ~ +100°C     |
| 脉冲群抗扰度水平         | IEC61000-4-4 | 4kV/100kHz         |
| 浪涌抗扰度水平          | IEC61000-4-5 | 2kV/共模, 1kV/差模     |
| 静电放电抗扰度水平        | IEC61000-4-2 | 4kV/接触放电, 8kV/空气放电 |
| 重量 (典型值)         |              | 400g               |
| 工作状态指示           | LED1         | 正转指示               |
|                  | LED2         | 反转指示               |
|                  | LED3         | 故障指示               |

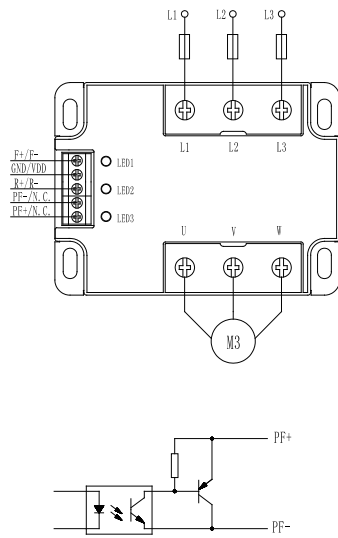
应用场合 ▶

电机控制

安装尺寸 ▶



接线图 ▶



共负输入控制:

F+:正转输入正极+

GND:公共端负极-

R+:反转输入正极+

共正输入控制:

F-:正转输入负极-

VDD:电源输入正极+

R-:反转输入负极-

PF-:缺相故障输出-(N.C.:内部悬空)

PF+:缺相故障输出+(N.C.:内部悬空)

LED1:正转信号指示灯

LED2:反转信号指示灯

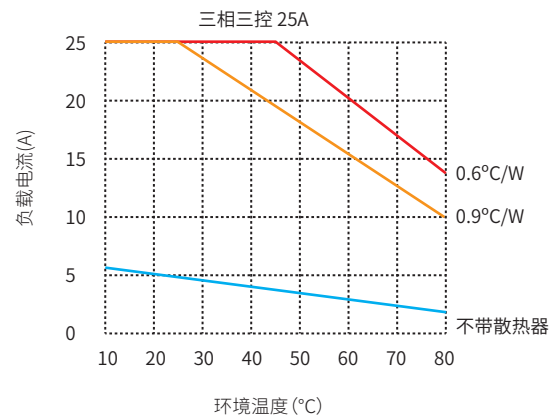
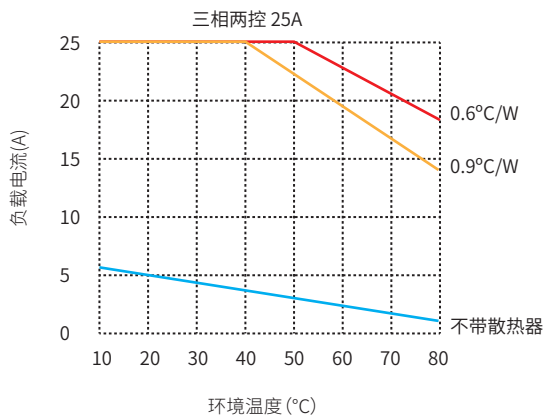
LED3:故障指示灯, 三相缺相时亮, 三相正常时灭 (不带缺相糾相功能产品)

LED3指示灯一直处于不亮状态)

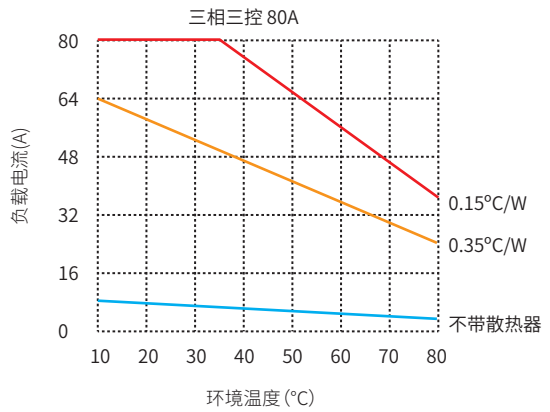
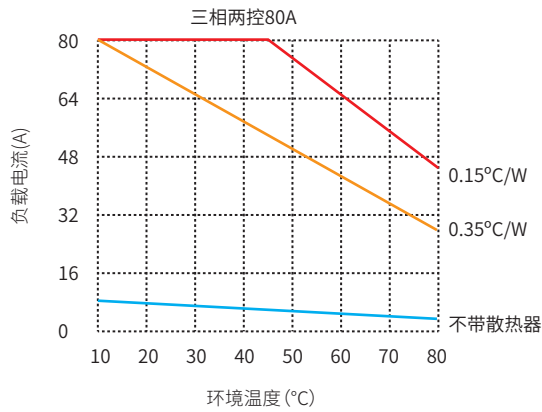
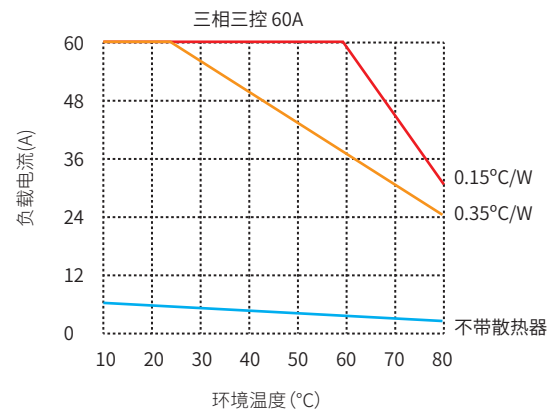
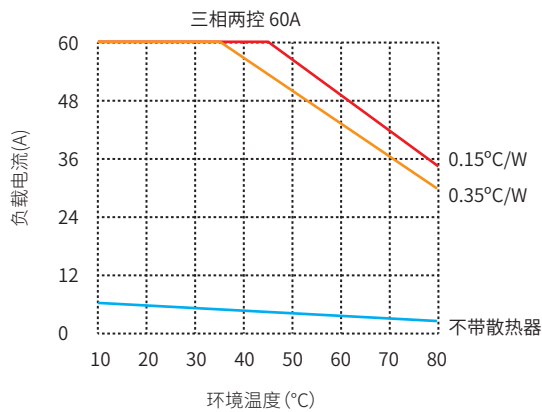
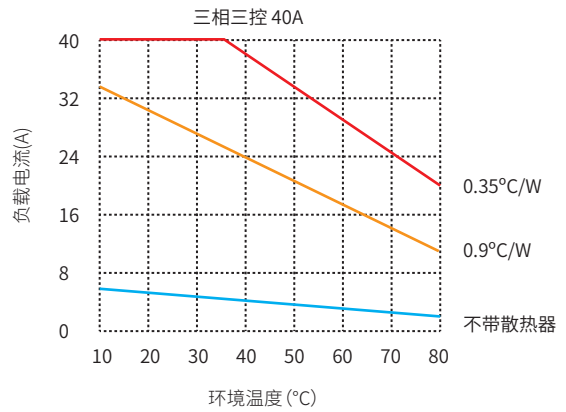
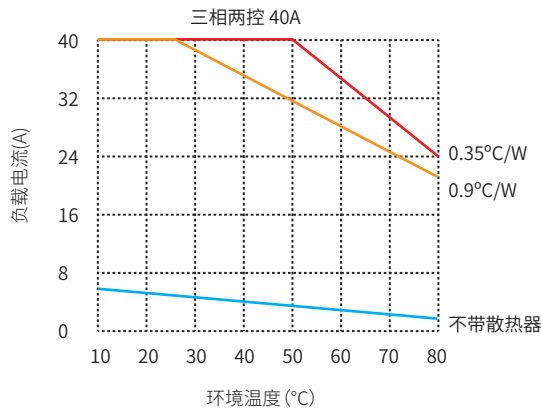
L1/L2/L3:三相输入端

U/V/W:三相负载输出端

温度曲线 ▶



温度曲线 ▶



注意事项 ▶

1. 正反转模块端子应确保接线牢固, 接线松弛会导致产品异常发热, 损坏产品。
2. 螺钉式快连接端子的推荐安装扭矩为0.5N·m, M4端子的推荐安装扭矩为(0.98~1.37)N·m。