


# FLA2

# PC Board Relay

 **E173485**  
29.5×13×20.6



- 16A switching capability
- SPST-NO&SPDT configuration
- 5KV dielectric strength between coil and contacts
- Transparent sealed available
- Class B/F available
- Conform to RoHS,ELV directive

## CONTACT DATA

|                       |  |
|-----------------------|--|
| Contact Form          | 1H/1Z  |
| Contact Material      | Silver Alloy                                       |
| Load                  | Resistive load(COS Φ=1)                            |
| Contact Ratings       | 16A 240VAC<br>16A 30VDC                            |
| Minimum load          | 100mA 5VDC   |
| Max Switching Voltage | 250VAC/30VDC                                       |
| Max Switching Current | 20A  |
| Max Switching Power   | 4800VA/480W  |
| Contact Resistance    | 100mΩ Max at 6VDC 1A                               |
| Electrical            | 100, 000<br>Operations(at300Operations/minute)     |
| Mechanical            | 10, 000, 000<br>Operations(at300Operations/minute) |

## CHARACTERISTICS DATA

|                           |   |
|---------------------------|---|
| Insulation Resistance     | 100MΩ Min at 500VDC   |
| Between Open Contacts     | 1000VAC(for one minute)   |
| Between Contacts and Coil | 5000VAC(for one minute)   |
| Operate Time              | 20ms  |
| Release Time              | 10ms  |
| Temperature Range         | -40℃to+70℃  |
| Shock Resistance          | Operating Extremes: 10G   |
|                           | Damage Limits: 100G   |
| Vibration Resistance      | 10-55Hz, 1.5mm  |
| Max. switching frequency  | Mechanical: 18,000operations/hr<br>Electrical: 1,800operations/hr |
| Humidity                  | 40-85%  |
| Weight                    | Approx 14g  |

## APPROVED STANDARDS

|          |            |
|----------|------------|
| UL & cUL | 16A 240VAC |
|          | 16A 30VDC  |

## COIL DATA

at 20℃

Coil Power 0.24W

| Nominal Voltage (VDC) | Rated Current (mA) | Max Operate Voltage (VDC) | Min Release Voltage (VDC) | Coil Resistance (Ω ±10%) |
|-----------------------|--------------------|---------------------------|---------------------------|--------------------------|
| 3                     | 80                 | 2.4                       | 0.15                      | 38                       |
| 5                     | 48                 | 4                         | 0.25                      | 104                      |
| 6                     | 40                 | 4.8                       | 0.3                       | 150                      |
| 9                     | 26.7               | 7.2                       | 0.45                      | 338                      |
| 12                    | 20                 | 9.6                       | 0.6                       | 600                      |
| 24                    | 10                 | 19.2                      | 1.2                       | 2400                     |
| 48                    | 5                  | 38.4                      | 2.4                       | 9600                     |

Coil Power 0.54W

| Nominal Voltage (VDC) | Rated Current (mA) | Max Operate Voltage (VDC) | Min Release Voltage (VDC) | Coil Resistance (Ω ±10%) |
|-----------------------|--------------------|---------------------------|---------------------------|--------------------------|
| 3                     | 180                | 2.4                       | 0.15                      | 17                       |
| 5                     | 108                | 4                         | 0.25                      | 46                       |
| 6                     | 90                 | 4.8                       | 0.3                       | 67                       |
| 9                     | 60                 | 7.2                       | 0.45                      | 150                      |
| 12                    | 45                 | 9.6                       | 0.6                       | 270                      |
| 24                    | 22.5               | 19.2                      | 1.2                       | 1050                     |
| 48                    | 11.3               | 38.4                      | 2.4                       | 4250                     |

Coil Power 0.72W

| Nominal Voltage (VDC) | Rated Current (mA) | Max Operate Voltage (VDC) | Min Release Voltage (VDC) | Coil Resistance (Ω ±10%) |
|-----------------------|--------------------|---------------------------|---------------------------|--------------------------|
| 3                     | 240                | 2.4                       | 0.15                      | 13                       |
| 5                     | 144                | 4                         | 0.25                      | 35                       |
| 6                     | 120                | 4.8                       | 0.3                       | 50                       |
| 9                     | 80                 | 7.2                       | 0.45                      | 110                      |
| 12                    | 60                 | 9.6                       | 0.6                       | 200                      |
| 24                    | 30                 | 19.2                      | 1.2                       | 800                      |
| 48                    | 15                 | 38.4                      | 2.4                       | 3200                     |



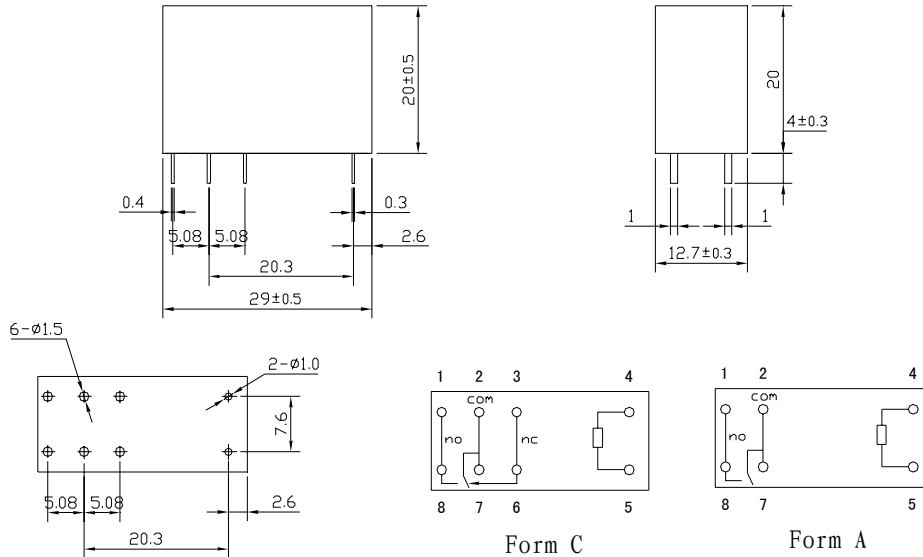
## ORDERING CODE

|             |          |              |          |          |            |
|-------------|----------|--------------|----------|----------|------------|
| <u>FLA2</u> | <u>D</u> | <u>12VDC</u> | <u>S</u> | <u>Z</u> | <u>(2)</u> |
| 1           | 2        | 3            | 4        | 5        | 6          |

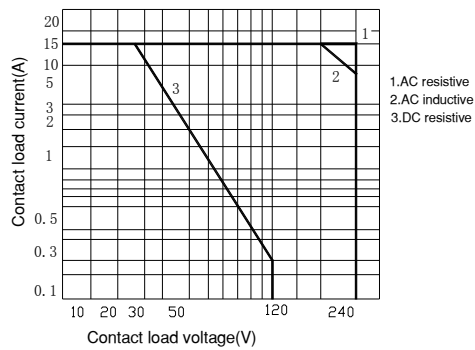
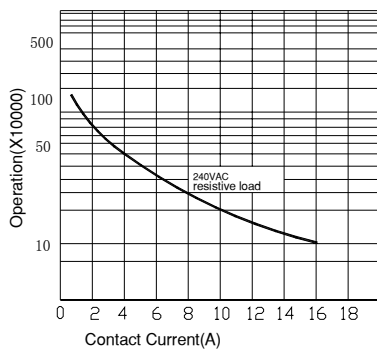
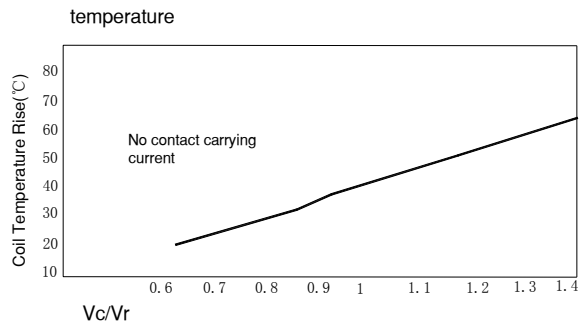
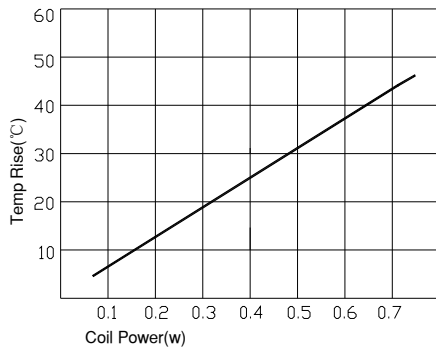
|  |   |                       |
|--|---|-----------------------|
| 1. Relay Model                                 | 4. S: Sealed                              | 6. Nil: Standard Type |
| 2. Coil Power<br>D=0.72W, L=0.54W, M=0.24W     | 5. Contact Form<br>Z: Form C<br>H: Form A | 2: Transparent Cover  |
| 3. Coil Nominal Voltage<br>3,5,6,9,12,24,48VDC |   |                       |

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND LAYOUT



Layout (Bottom View)

## ENGINEERING DATA



FLOURISHING RELAY

The specifications are for the customer's reference and are subject to change without notice.