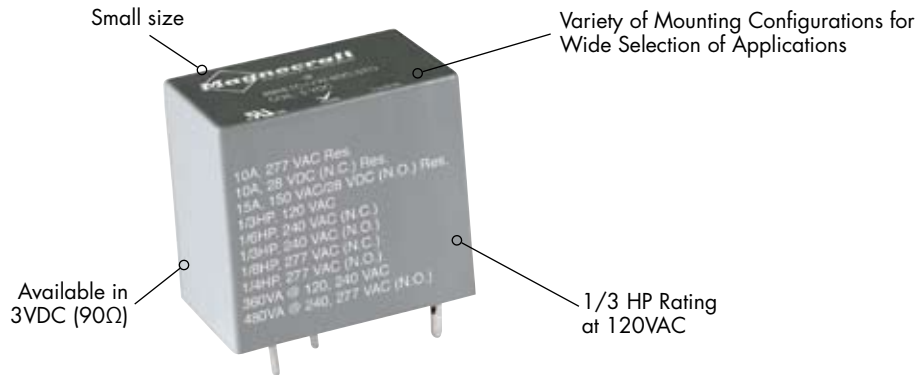


## 49 PCB Mount Enclosed Relay/SPDT 3 - 10 Amp Rated



### General Specifications

(UL 508)

10 Amp STO

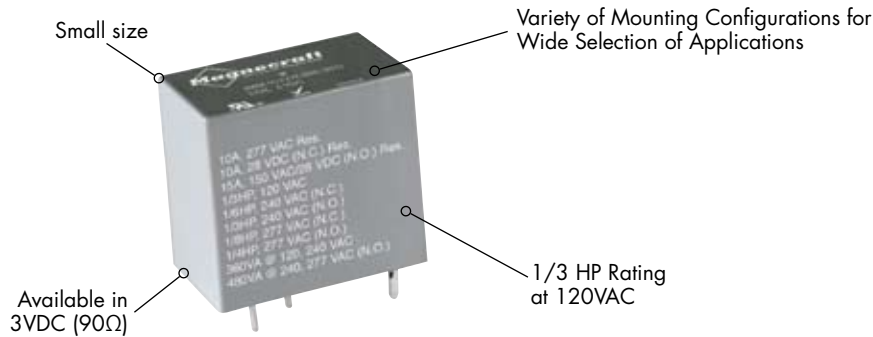
SPDT

| Contact Characteristics                   |  | Units                                  | Normally Open          |  | Normally Closed                           |  |
|-------------------------------------------|--|----------------------------------------|------------------------|--|-------------------------------------------|--|
| Number and type of Contacts               |  |                                        | 15                     |  | 10                                        |  |
| Contact materials                         |  |                                        | Silver Alloy           |  |                                           |  |
| Current rating                            |  | A                                      | 1/3 @ 240 VAC          |  | 1/6 @ 240 VAC                             |  |
| Switching voltage                         |  | V                                      | 277 V 50/60 Hz         |  | 1/8 @ 277 VAC                             |  |
|                                           |  | V                                      | 28 V                   |  |                                           |  |
|                                           |  | HP                                     | 1/4 @ 277 VAC          |  |                                           |  |
|                                           |  | HP                                     | B300 (120/240 VAC)     |  |                                           |  |
| Minimum Switching Requirement             |  | Pilot Duty mA                          | 100                    |  |                                           |  |
| Coil Characteristics                      |  | Units                                  | Voltage Range          |  | Operating Range                           |  |
| Voltage Range                             |  | V                                      | 3...24                 |  | 75% to 110%                               |  |
| Operating Range                           |  | % of Nominal                           |                        |  |                                           |  |
| Average consumption                       |  | W                                      | 0.11                   |  |                                           |  |
| Drop-out voltage threshold                |  |                                        | 10%                    |  |                                           |  |
| Performance Characteristics               |  | Units                                  | Electrical Life        |  | Mechanical Life                           |  |
| Electrical Life                           |  | Operations @ Rated Current (Resistive) | 100,000                |  | 10,000,000                                |  |
| Mechanical Life                           |  | Unpowered                              |                        |  |                                           |  |
| Operating time (response time)            |  | ms                                     | 25                     |  |                                           |  |
| Dielectric                                |  | V                                      | 1500                   |  |                                           |  |
|                                           |  | V                                      | 500                    |  |                                           |  |
| Environment                               |  | Units                                  | Product certifications |  | Ambient air temperature around the device |  |
| Product certifications                    |  | Standard version                       | UL                     |  | -40...+85                                 |  |
| Ambient air temperature around the device |  | °C                                     |                        |  | -40...+55                                 |  |
| Vibration resistance                      |  | g-n                                    | 3, 10 to 55 Hz         |  |                                           |  |
| Shock resistance                          |  | g-n                                    | 10                     |  |                                           |  |
| Weight                                    |  | grams                                  | 42                     |  |                                           |  |



| 5 Amp STO<br>SPDT  |                 | 3 Amp SIL<br>SPDT  |                 |
|--------------------|-----------------|--------------------|-----------------|
| Normally Open      | Normally Closed | Normally Open      | Normally Closed |
| Silver Alloy       |                 | Fine Silver        |                 |
| 5                  |                 | 15                 | 3               |
| 120 V 50/60 Hz     |                 | 150 V 50/60 Hz     |                 |
| 28 V               |                 | 28 V               |                 |
| 1/3 @ 240 VAC      | 1/6 @ 240 VAC   | 1/3 @ 240 VAC      | 1/6 @ 240 VAC   |
| 1/4 @ 277 VAC      | 1/8 @ 277 VAC   | 1/4 @ 277 VAC      | 1/8 @ 277 VAC   |
| B300 (120/240 VAC) |                 | B300 (120/240 VAC) |                 |
| 100                |                 | 100                |                 |
| 3....24            |                 | 3....24            | 5....24         |
| 75% to 110%        |                 | 75% to 110%        |                 |
| 0.11               |                 | 0.11               |                 |
| 10%                |                 | 10%                |                 |
| 100,000            |                 | 100,000            |                 |
| 10,000,000         |                 | 10,000,000         |                 |
| 25                 |                 | 25                 |                 |
| 2500               |                 | 2500               |                 |
| 500                |                 | 500                |                 |
| UL                 |                 | UL                 |                 |
| -40...+85          |                 | -40...+85          |                 |
| -40...+55          |                 | -40...+55          |                 |
| 3, 10 to 55 Hz     |                 | 3, 10 to 55 Hz     |                 |
| 10                 |                 | 10                 |                 |
| 42                 |                 | 42                 |                 |

## 49 PCB Mount Enclosed Relay/SPDT 3 - 10 Amp Rated *continued*



### Standard Part Numbers

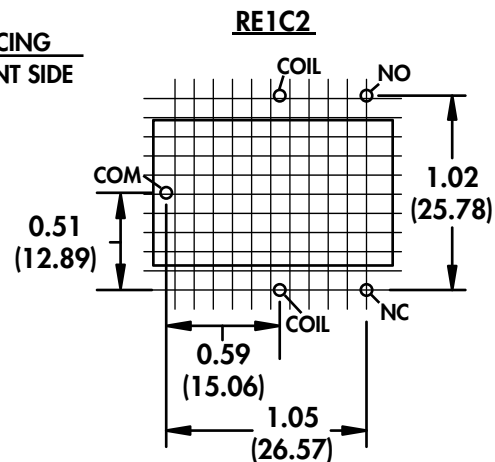
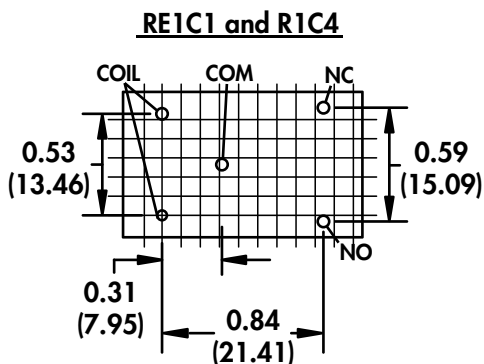
### BOLD-FACED PART NUMBERS ARE NORMALLY STOCKED

| Nominal Input Voltage<br>3 Amp, Style RE1C1 | Nominal Coil Resistance (Ω) | Part Number                | Contact Configuration |
|---------------------------------------------|-----------------------------|----------------------------|-----------------------|
| 3 VDC                                       | 90 Ω                        | W49RE1C1VG-3DC-SIL         | SPDT                  |
| 5 VDC                                       | 235 Ω                       | W49RE1C1VG-5DC-SIL         | SPDT                  |
| 12 VDC                                      | 1350 Ω                      | <b>W49RE1C1VG-12DC-SIL</b> | SPDT                  |
| 6 VDC                                       | 410 Ω                       | W49RE1C2VF-6DC-SIL         | SPDT                  |
| 12 VDC                                      | 1640 Ω                      | W49RE1C2VF-12DC-SIL        | SPDT                  |
| 24 VDC                                      | 6560 Ω                      | W49RE1C2VF-24DC-SIL        | SPDT                  |
| <b>5 Amp, Style RE1C1 and RE1C2</b>         |                             |                            |                       |
| 5 VDC                                       | 235 Ω                       | <b>W49RE1C1VG-5DC-STO</b>  | SPDT                  |
| 12 VDC                                      | 1350 Ω                      | <b>W49RE1C1VG-12DC-STO</b> | SPDT                  |
| 24 VDC                                      | 5400 Ω                      | <b>W49RE1C1VG-24DC-STO</b> | SPDT                  |
| 6 VDC                                       | 410 Ω                       | <b>W49RE1C2VF-6DC-STO</b>  | SPDT                  |
| 12 VDC                                      | 1640 Ω                      | W49RE1C2VF-12DC-STO        | SPDT                  |
| 24 VDC                                      | 6560 Ω                      | W49RE1C2VF-24DC-STO        | SPDT                  |
| <b>10 Amp, Style RE1C1</b>                  |                             |                            |                       |
| 5 VDC                                       | 100 Ω                       | <b>W49RE1C1VW-5DC-STO</b>  | SPDT                  |
| 12 VDC                                      | 600 Ω                       | <b>W49RE1C1VW-12DC-STO</b> | SPDT                  |
| 24 VDC                                      | 2400 Ω                      | <b>W49RE1C1VW-24DC-STO</b> | SPDT                  |
| <b>10 Amp, Style R1C4</b>                   |                             |                            |                       |
| 5 VDC                                       | 235 Ω                       | W49R1C4VG-5DC-STO          | SPDT                  |
| 12 VDC                                      | 1350 Ω                      | W49R1C4VG-12DC-STO         | SPDT                  |
| <b>10 Amp, Style R1C4</b>                   |                             |                            |                       |
| 5 VDC                                       | 100 Ω                       | W49R1C4VW-5DC-STO          | SPDT                  |
| 24 VDC                                      | 2400 Ω                      | W49R1C4VW-24DC-STO         | SPDT                  |

### Part Number Builder

| Series | Footprint                   | Rating                        | Coil Voltage  | Contact Material            |
|--------|-----------------------------|-------------------------------|---------------|-----------------------------|
| 49     | RE1C1 = Narrow Footprint    | VG = (RE1C1) 5A STO or 3A SIL | 3DC = 3 VDC   | SIL = Fine Silver Contacts  |
|        | RE1C2 = Wide Footprint      | VG (R1C4) = 10A STO           | 5DC = 5 VDC   | STO = Silver Alloy Contacts |
|        | R1C4 = Top Mounting Bracket | VF = (RE1C2) 5A STO or 3A SIL | 6DC = 6 VDC   |                             |
|        |                             | VW = 10A STO                  | 12DC = 12 VDC |                             |
|        |                             |                               | 24DC = 24 VDC |                             |

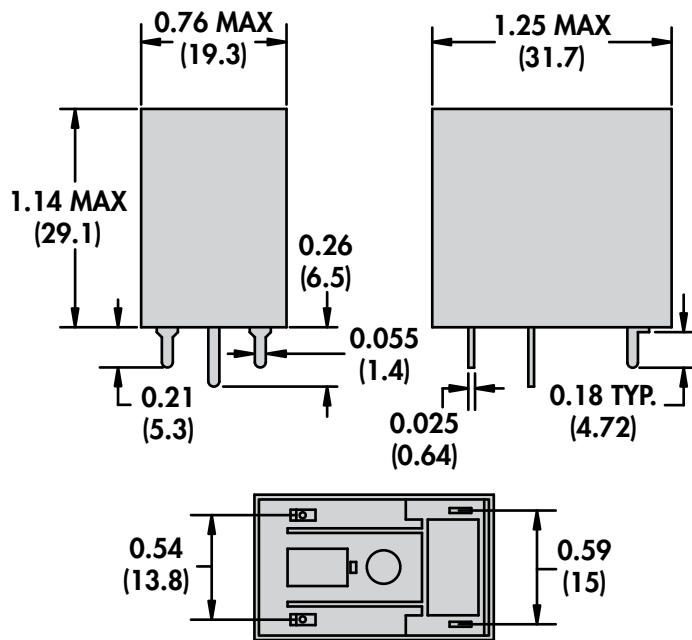
### CIRCUIT BOARD PIN SPACING VIEWED FROM COMPONENT SIDE (TOP VIEW)



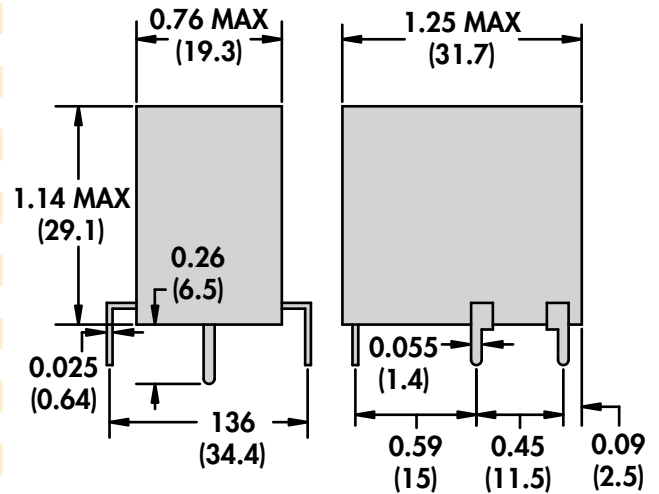
0.1 IN GRID  
(2.54 MM)

PIN SPACINGS SHOWN AT 100% OF ACTUAL SIZE

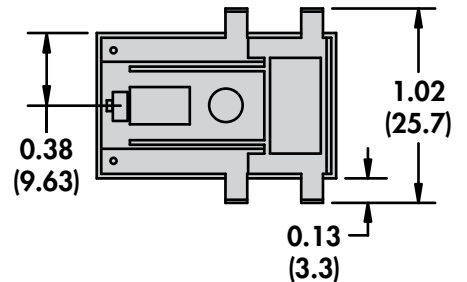
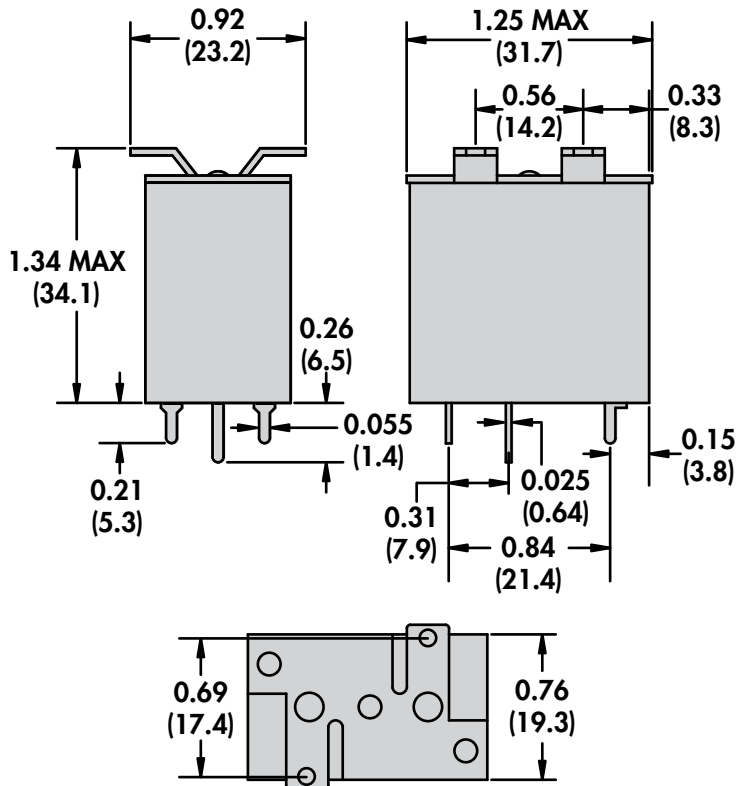
STYLE RE1C1



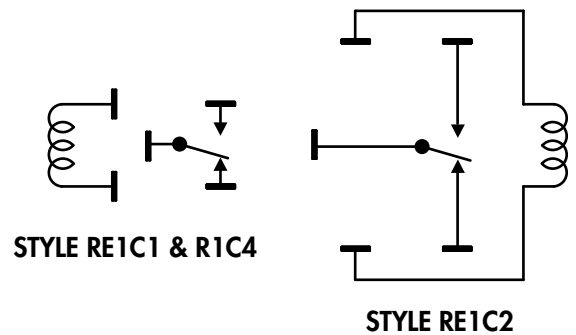
STYLE RE1C2



STYLE R1C4



WIRING DIAGRAMS  
TOP VIEW



DRAWINGS SHOWN AT 100% OF ACTUAL SIZE

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[49RE1C2VF-6DC-STO](#) [49RE1C1VG-18DC-STO](#) [49RE1C1VG-5DC-STO](#) [49R1C4VG-12DC-STO](#) [49R1C4VG-5DC-STO](#) [49RE1C1VW-12DC-STO](#)