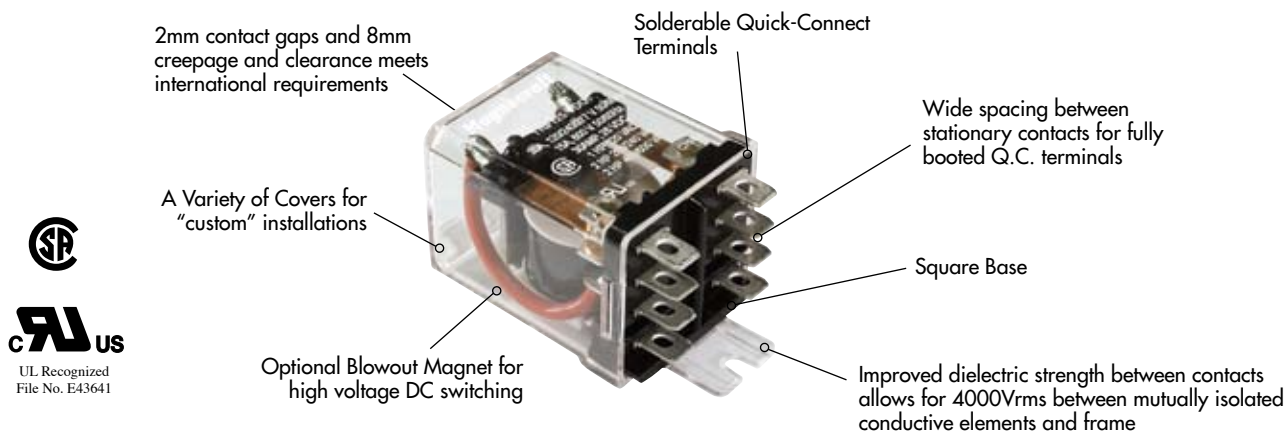


## 300 Series Power Relays/Two Pole 30 Amp Rating (DC and AC)



### General Specifications

(UL 508)

| Contact Characteristics                   |  | Units                      | Standard               |                         |
|-------------------------------------------|--|----------------------------|------------------------|-------------------------|
| Number and type of Contacts               |  |                            | SPST, SPDT, DPST, DPDT | SPST-NO-DM              |
| Contact materials                         |  |                            | Silver Alloy           | Silver Alloy            |
| Thermal (Carrying) Current                |  | A                          | 30                     | 30                      |
| Maximum Switching Voltage                 |  | V                          | 600V                   | 600V                    |
| Switching current @ voltage               |  | ~                          | 30A @ 300V 50/60Hz     | 30A @ 300V 50/60Hz      |
|                                           |  | ~                          | 30A @ 28V              | 30A @ 28V               |
|                                           |  | HP                         | 2 @ 208-600 VAC        | 2 @ 208-600 VAC         |
|                                           |  | HP                         | 1 @ 120 VAC            | 1 @ 120 VAC             |
|                                           |  | Pilot Duty                 | 5.5 A @ 120 VAC        | 5.5 A @ 120 VAC         |
| Current rating with magnetic blowout      |  | A                          | 3 @ 150V ('69' Suffix) | 10 @ 150V ('69' Suffix) |
| Minimum Switching Requirement             |  | mA                         | 500 @ 12 VAC/VDC       | 500 @ 12 VAC/VDC        |
| Minimum                                   |  |                            |                        |                         |
| Coil Characteristics                      |  |                            |                        |                         |
| Voltage Range                             |  | ~                          | 6...240                | 6...240                 |
|                                           |  | ~                          | 6...125                | 6...125                 |
| Operating Range                           |  | ~                          | 85% to 110%            | 85% to 110%             |
| % of Nominal                              |  | ~                          | 80% to 110%            | 80% to 110%             |
| Average consumption                       |  | ~                          | 3.4                    | 3.4                     |
|                                           |  | ~                          | 1.5                    | 1.5                     |
| Drop-out voltage threshold                |  | ~                          | 30%                    | 30%                     |
|                                           |  | ~                          | 10%                    | 10%                     |
| Performance Characteristics               |  |                            |                        |                         |
| Electrical Life (UL 508)                  |  | (Resistive)                | 30,000                 | 30,000                  |
| Mechanical Life                           |  | Operations @ Rated Current | 5,000,000              | 5,000,000               |
| Operating time (response time)            |  | Unpowered                  | ms                     | 20                      |
| Dielectric                                |  | ~                          | 2500                   | 2500                    |
|                                           |  | ~                          | 4000                   | 4000                    |
|                                           |  | ~                          | 2500                   | 2500                    |
|                                           |  | ~                          |                        |                         |
| Environment                               |  |                            |                        |                         |
| Product certifications                    |  |                            | UL, CSA                | UL, CSA                 |
| Ambient air temperature around the device |  | Standard version           | °C                     | -40...+85               |
|                                           |  | Storage                    | °C                     | -40...+55               |
| Weight                                    |  | Operation                  | grams                  | 85                      |

### Part Number Builder

| 300                 | XBX              |                                      |
|---------------------|------------------|--------------------------------------|
| Series              | Configuration    | DC Switching Option                  |
| 300 = Standard      | XAX = SPDT       | 69 = Magnetic Blowouts near contacts |
| F300 = Class F Coil | BXX = DPST-NO    |                                      |
|                     | XBX = DPDT       |                                      |
|                     | XXB = DPST-NC    |                                      |
|                     | HXX = SPST-NO-DM |                                      |



300XBXC1



Available DIN rail mountable cover

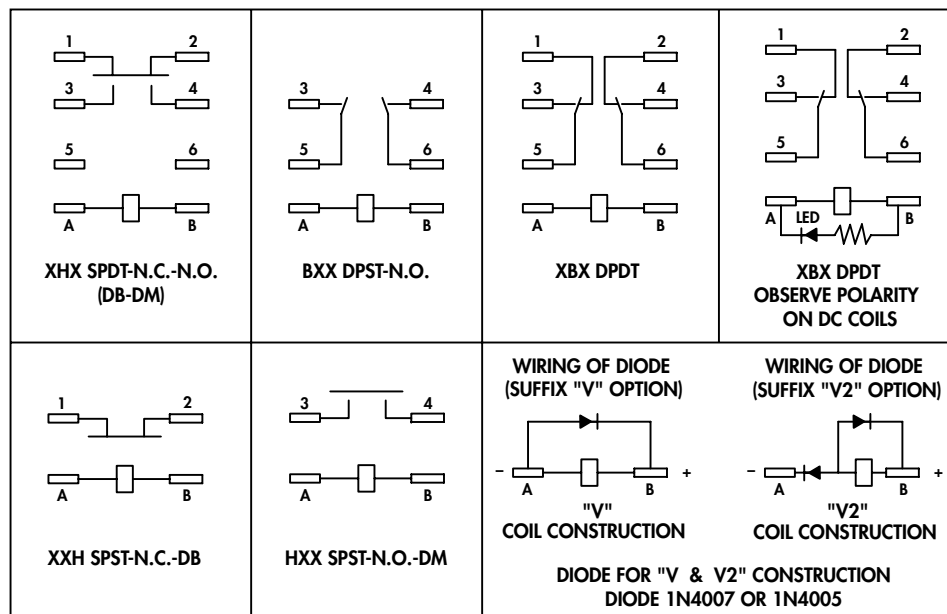
300XBXC4

### Standard Part Numbers

### BOLD-FACED PART NUMBERS ARE NORMALLY STOCKED

| Nominal Input Voltage | Coil Resistance (OHMS) | Part Number          | Contact Configuration |
|-----------------------|------------------------|----------------------|-----------------------|
| 220/240 VAC, 50/60 Hz | 5400 $\Omega$          | <b>300XBXC1-240A</b> | DPDT                  |
| 110/120 VAC, 50/60 Hz | 1270 $\Omega$          | <b>300XBXC1-120A</b> | DPDT                  |
| 24 VAC, 50/60 Hz      | 54 $\Omega$            | <b>300XBXC1-24A</b>  | DPDT                  |
| 12 VAC, 50/60 Hz      | 13.5 $\Omega$          | 300XBXC1-12A         | DPDT                  |
| 110/125 VDC           | 6300 $\Omega$          | 300XBXC1-110D        | DPDT                  |
| 24 VDC                | 300 $\Omega$           | <b>300XBXC1-24D</b>  | DPDT                  |
| 12 VDC                | 75 $\Omega$            | <b>300XBXC1-12D</b>  | DPDT                  |
| 110/125 VDC           | 6300 $\Omega$          | 300XB69C1-110D       | DPDT                  |
| 24 VDC                | 300 $\Omega$           | <b>300XB69C4-24D</b> | DPDT                  |
| 12 VDC                | 75 $\Omega$            | 300XB69C1-12D        | DPDT                  |

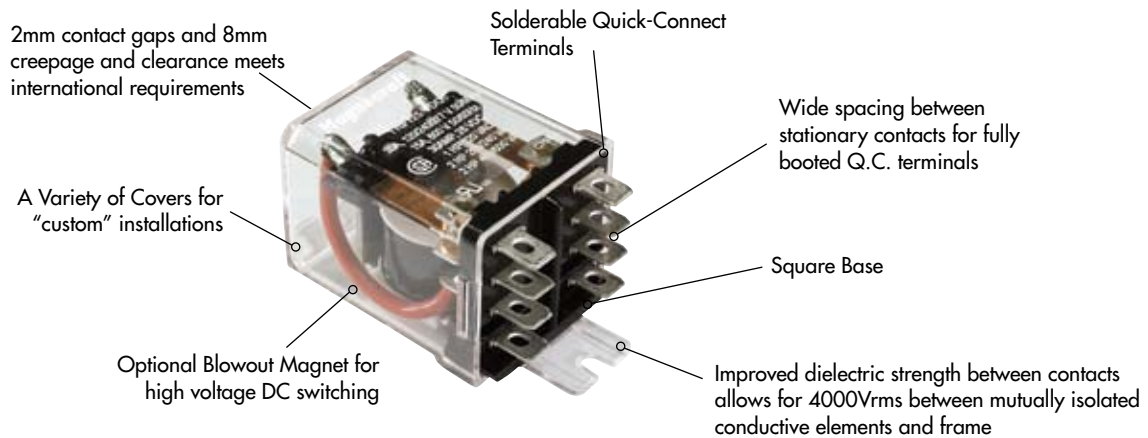
### WIRING DIAGRAMS



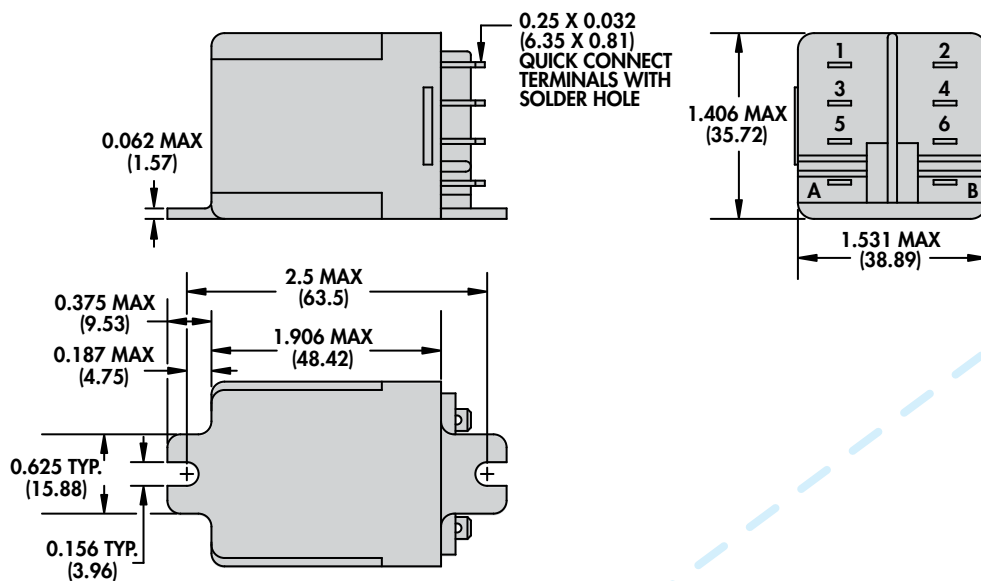
| C1<br>Cover                                                          | Options*                     | -12<br>Coil Voltage | D<br>Current Type |
|----------------------------------------------------------------------|------------------------------|---------------------|-------------------|
| C = Clear polycarbonate cover (To be used with PC Terminals)         | M = Manual Operator          | Coil Voltage        | A = AC            |
| C1 = Side flange mount cover                                         | L = Lamp across contacts     |                     | D = DC            |
| C2 = Cover with anti-rotation tabs and thread mounting hole in frame | T = Printed wiring terminals |                     |                   |
| C3 = Top flanged cover                                               |                              |                     |                   |
| C4 = Top DIN mount cover                                             |                              |                     |                   |

\*Multiple Codes May be Used

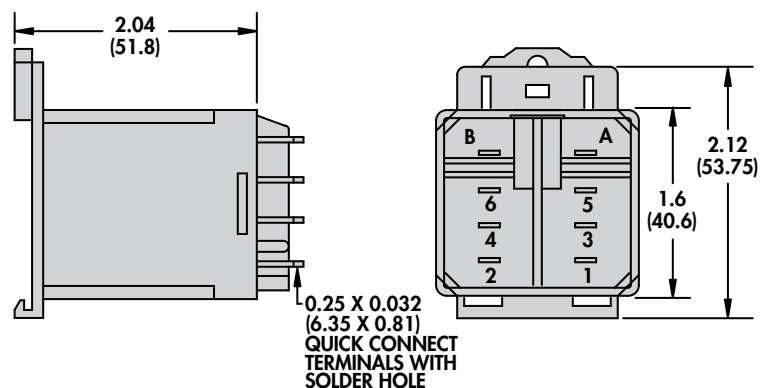
## 300 Series Power Relays/Two Pole 30 Amp Rating (DC and AC) *continued*



### SIDE MOUNTING COVER STYLE



### DIN RAIL MOUNTED STYLE





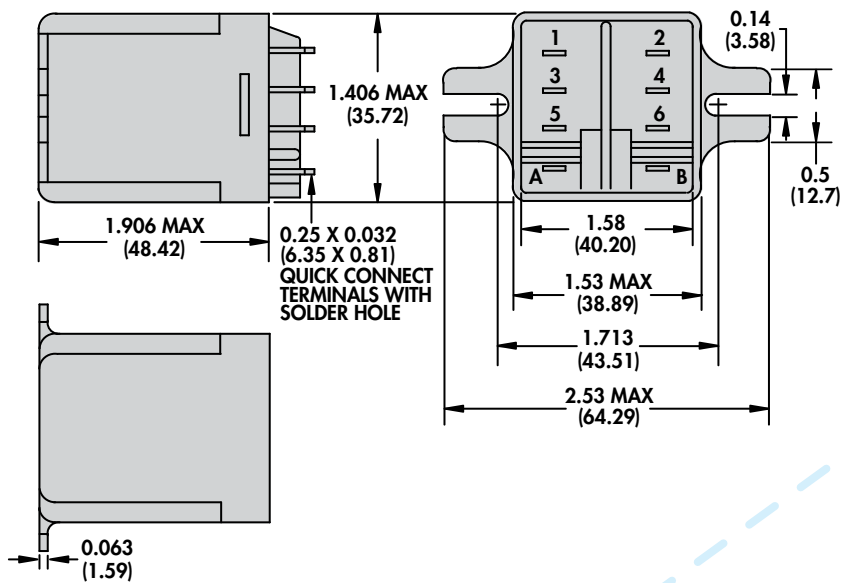
300XBXCI



Available DIN rail mountable cover

300XBXCI

### TOP FLANGE COVER STYLE



### PRINTED CIRCUIT TERMINAL

