

**UL CONTACT LOAD RATINGS TABLE**

| POLES                      | CURRENT OR HORSE POWER | LOAD VOLTAGE | LOAD VOLTAGE FREQUENCY | TYPE OF LOAD |
|----------------------------|------------------------|--------------|------------------------|--------------|
| <b>1 POLE THRU 3 POLES</b> | 15 AMP                 | 120/240 VAC  | 50/60 Hz               | RESISTIVE    |
|                            | 10AMP                  | 28 VDC       | DC                     | RESISTIVE    |
|                            | 1/3 HP                 | 120 VAC      | 50/60 Hz               | MOTOR        |
|                            | 1/2 HP                 | 240 VAC      | 50/60 Hz               | MOTOR        |

**SPDT, DPDT & 3PDT, 15 AMPS**

**UL** **us**  
UL Recognized  
File No. E13224

**SP** 168986

**CE**

**UL** LISTED 367G  
IND. CONT. EQ.  
**C** **US**  
WHEN USED  
WITH SOCKETS  
70-463-1

COMPLIES WITH REQUIREMENTS OF

\* IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE

\* IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION

\* CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT

CURRENT LIMITED TO  
RATING OF RELAY OR  
SOCKET WHICHEVER  
IS LESS.

**MANUFACTURED UNDER**  
**ISO 9002 & QS 9000**

**GENERAL SPECIFICATIONS****COIL**

|                           |                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------|
| Pull-in Voltage:          | 80% of nominal voltage or less for DC coils<br>85% of nominal voltage or less for AC coils |
| Dropout Voltage:          | 10% of nominal voltage or more                                                             |
| Max. Voltage:             | 110%                                                                                       |
| Resistance:               | ± 10 % measured at 25°C                                                                    |
| Coil Power:               | 1.2 watts for DC coils,<br>2 VA to 2.75 VA for AC @ 25°C                                   |
| Insulation System:        | Class "B" (130°C per UL standard 1446)                                                     |
| Maximum Coil Dissipation: | 3.0 watts max. DC                                                                          |
| Duty:                     | Continuous                                                                                 |

**CONTACTS**

|                     |                                                             |
|---------------------|-------------------------------------------------------------|
| Contact Material:   | 0.187 silver cadmium oxide, gold flashed                    |
| Contact Resistance: | 50 milliohms maximum initial resistance<br>at rated current |
| Contact Ratings:    | See " <b>UL</b> CONTACT LOAD RATINGS TABLE"                 |

**DIELECTRIC STRENGTH**

|                        |                        |
|------------------------|------------------------|
| Contacts to Coil:      | 2000 V rms             |
| Across Open Contacts:  | 500 V rms              |
| Pole to Pole           | 2000 V rms             |
| Contacts to Frame:     | 2000 V rms             |
| Insulation Resistance: | 1000 megohms @ 500 VDC |

**TEMPERATURE**

|            |                                          |
|------------|------------------------------------------|
| Operating: | -30°C to +50°C (AC), -30°C to +65°C (DC) |
| Storage    | -30°C to 100°C                           |

**LIFE EXPECTANCY**

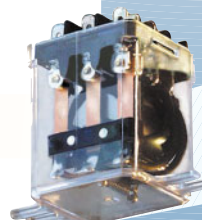
|             |                                           |
|-------------|-------------------------------------------|
| Electrical: | 100,000 operations @ rated resistive load |
| Mechanical: | 5,000,000 operations @ no load            |

**MISCELLANEOUS**

|                      |                                                                                                                            |
|----------------------|----------------------------------------------------------------------------------------------------------------------------|
| Operating Position:  | Any                                                                                                                        |
| Insulation material: | Molded plastic                                                                                                             |
| Enclosure:           | Polycarbonate dust cover                                                                                                   |
| Terminals:           | 0.187 x 0.032 <b>quick connect</b> flange or 0.187 x 0.020<br>solder/plug-in. Optional printed circuit terminals available |
| Weight:              | 88 grams approx.                                                                                                           |

**PLUG-IN****FLANGE MOUNT**

**OPTIONAL P.C. TERMINAL**  
**CONSULT FACTORY.**

**PRINTED CIRCUIT TERMINAL**

**OPTIONAL TOP FLANGE**  
**COVER CONSULT FACTORY.**

**TOP FLANGE MOUNT**

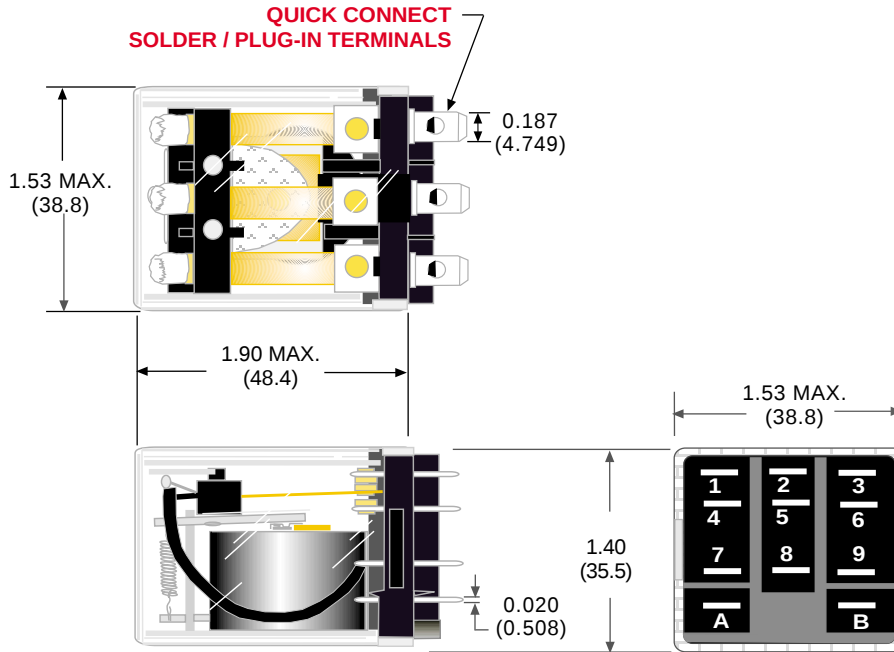
**OPTIONAL DIN COVER**  
**CONSULT FACTORY.**

**DIN MOUNT COVER****Mating Sockets****70-463-1: SCREW/DIN****70-124-1: SOLDER****70-178-1, 70-178-2: PRINTED CIRCUIT****70-124-2: QUICK CONNECT**

See section 8, page 16, 17

**SPDT, DPDT & 3PDT, 15 AMPS**

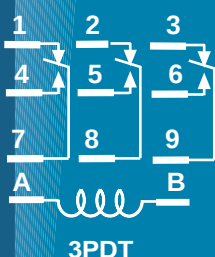
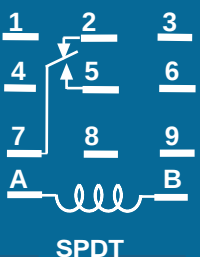
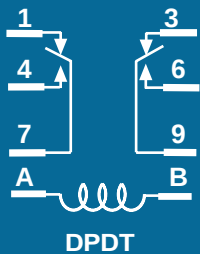
**OUTLINE DIMENSIONS**  
DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).



SEE CLASS 788 FOR  
PART NUMBERS WITH  
L.E.D. STATUS LAMP  
AND PUSH BUTTON

**WIRING DIAGRAMS**

(VIEWED FROM PIN END)

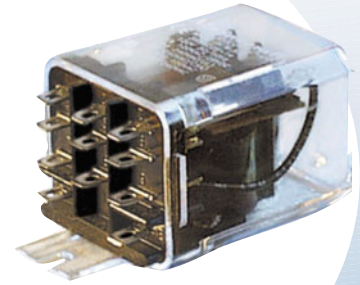
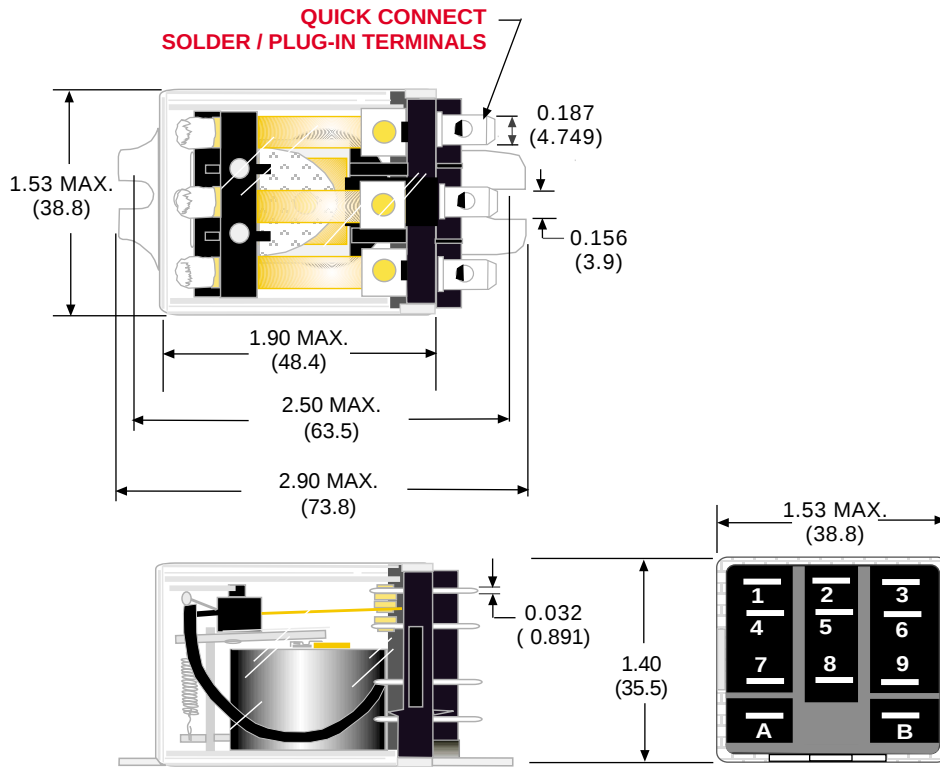


| STANDARD<br>PART NUMBERS           |             | CONTACT<br>CONFIGU-<br>RATION | COIL MEASURED @ 25 °C       |                                 |
|------------------------------------|-------------|-------------------------------|-----------------------------|---------------------------------|
| A283                               | W388        |                               | NOMINAL<br>INPUT<br>VOLTAGE | NOMINAL<br>RESISTANCE<br>(OHMS) |
| AC OPERATED SOLDER/PLUG-IN, 15 AMP |             |                               |                             |                                 |
| A283XAXC-120A                      | W388ACPX-4  | SPDT                          | 120 VAC, 50/60Hz            | 2250 Ω                          |
| A283XAXC-240A                      | W388ACPX-5  | SPDT                          | 220/240 VAC, 50/60Hz        | 9100 Ω                          |
| A283XBXC-24A                       | W388ACPX-8  | DPDT                          | 24 VAC, 50/60Hz             | 75 Ω                            |
| A283XBXC-120A                      | W388ACPX-9  | DPDT                          | 120 VAC, 50/60Hz            | 2250 Ω                          |
| A283XBXC-240A                      | W388ACPX-10 | DPDT                          | 220/240 VAC, 50/60Hz        | 9100 Ω                          |
| A283XCXC-24A                       | W388ACPX-13 | 3PDT                          | 24 VAC, 50/60Hz             | 72 Ω                            |
| A283XCXC-120A                      | W388ACPX-14 | 3PDT                          | 120 VAC, 50/60Hz            | 1700 Ω                          |
| A283XCXC-240A                      | W388ACPX-15 | 3PDT                          | 220/240 VAC, 50/60Hz        | 7200 Ω                          |
| DC OPERATED SOLDER/PLUG-IN, 15 AMP |             |                               |                             |                                 |
| A283XAXC-12D                       | W388CPX-2   | SPDT                          | 12 VDC                      | 120 Ω                           |
| A283XAXC-24D                       | W388CPX-3   | SPDT                          | 24 VDC                      | 472 Ω                           |
| A283XBXC-12D                       | W388CPX-6   | DPDT                          | 12 VDC                      | 120 Ω                           |
| A283XBXC-24D                       | W388CPX-7   | DPDT                          | 24 VDC                      | 472 Ω                           |
| A283XBXC-110D                      | W388CPX-8   | DPDT                          | 110 VDC                     | 10,000 Ω                        |
| A283XCXC-12D                       | W388CPX-10  | 3PDT                          | 12 VDC                      | 120 Ω                           |
| A283XCXC-24D                       | W388CPX-11  | 3PDT                          | 24VDC                       | 472 Ω                           |

RETROFITS POTTER & BRUMFIELD KUP.  
SEE END OF SECTION 1 FOR CROSS REFERENCE

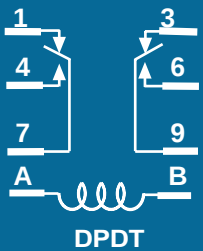
**SPDT, DPDT & 3PDT, 15 AMPS**

**OUTLINE DIMENSIONS**  
DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).

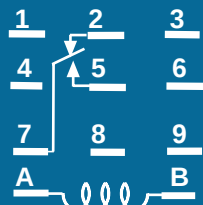


SEE CLASS 388J FOR  
PART NUMBERS WITH  
L.E.D. STATUS LAMP  
AND PUSH BUTTON

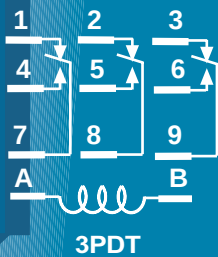
## WIRING DIAGRAMS (VIEWED FROM PIN END)



DPDT



SPDT



3PDT

| STANDARD<br>PART NUMBERS |             | CONTACT<br>CONFIGU-<br>RATION | COIL MEASURED @ 25°C        |                                 |
|--------------------------|-------------|-------------------------------|-----------------------------|---------------------------------|
| A283                     | W388        |                               | NOMINAL<br>INPUT<br>VOLTAGE | NOMINAL<br>RESISTANCE<br>(OHMS) |
| AC OPERATED, 15 AMP      |             |                               |                             |                                 |
| A283XAXC1-120A           | W388ACQX-4  | SPDT                          | 120 VAC, 50/60Hz            | 2250 Ω                          |
| A283XAXC1-240A           | W388ACQX-5  | SPDT                          | 220/240 VAC, 50/60Hz        | 9100 Ω                          |
| A283XBXC1-120A           | W388ACQX-9  | DPDT                          | 120 VAC, 50/60Hz            | 2250 Ω                          |
| A283XBXC1-240A           | W388ACQX-10 | DPDT                          | 220/240 VAC, 50/60Hz        | 9100 Ω                          |
| A283XCXC1-120A           | W388ACQX-14 | 3PDT                          | 120 VAC, 50/60Hz            | 1700 Ω                          |
| A283XCXC1-240A           | W388ACQX-15 | 3PDT                          | 220/240 VAC, 50/60Hz        | 7200 Ω                          |
| DC OPERATED, 15 AMP      |             |                               |                             |                                 |
| A283XAXC1-12D            | W388CQX-2   | SPDT                          | 12 VDC                      | 120 Ω                           |
| A283XAXC1-24D            | W388CQX-3   | SPDT                          | 24 VDC                      | 472 Ω                           |
| A283XBXC1-12D            | W388CQX-6   | DPDT                          | 12 VDC                      | 120 Ω                           |
| A283XBXC1-24D            | W388CQX-7   | DPDT                          | 24 VDC                      | 472 Ω                           |
| A283XBXC1-24D            | W388CQX-11  | 3PDT                          | 24 VDC                      | 472 Ω                           |

RETROFITS POTTER & BRUMFIELD KUP.  
SEE END OF SECTION 1 FOR CROSS REFERENCE