

GENERAL SPECIFICATIONS**COIL**

Pull-in Voltage :	75% of nominal voltage or less for DC coils, 80% of nominal voltage or less for AC coils
Dropout Voltage:	DC-10% min. AC-30% min. of nominal voltage or more
Max. Voltage :	110%
Resistance:	±15% measured @ 25°C
Coil Power:	0.9 - 1.1 watts DC., 1.0 - 1.2 VA (60Hz) AC. @ 25°C
Insulation System:	Class "B" (130°C per UL standard 1446)
Max. Coil Dissipation:	2.3 watts DC, 2.55 VA (60Hz) AC. 5 minutes max @ 40°C
Duty:	Continuous

CONTACTS

Contact Material:	3 amps bifurcated silver gold plated. 3 amps silver gold flashed, 5, 10 & 15 Amps, Silver cadmium oxide, gold flashed
Contact Rating:	SPDT: 15 Amps @ 120/240 VAC, 30 VDC, 1/3 Hp, 120 VAC. 1/2 Hp 240 VAC. DPDT: 10 Amps @120/240 VAC, 30 VDC. 1/3 Hp, 120 VAC. 1/2Hp 240 VAC 4PDT: Bifurcated 3 Amps @120/240 VAC, 30 VDC. 1/16 Hp (2.8 amps FLA), 120 VAC. Pilot duty - 5 amps make, 1/2 amps break, 3 amps continuous, 120 VAC. 4PDT: 3 amps @ 120 VAC, 30 VDC 1/10 Hp 120/240 VAC, C300 pilot duty 4PDT: 5 amps @ 120/240 VAC, 30 VDC 1/6 Hp 120/240 VAC, C300 pilot duty

DIELECTRIC STRENGTH

Coil To Frame:	1500 V rms
Across Open Contacts:	1000 V rms
Contacts To Frame:	1500 V rms
Insulation Resistance:	100 megohms @ 500 VDC

TEMPERATURE

Operating:	-40°C to +70°C
Storage:	-40°C to +105°C

VIBRATION RESISTANCE

Functional:	5 g, 10 to 55 Hz; 1 mm (double amplitude)
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SHOCK RESISTANCE

Functional:	20 g
Mechanical:	100 g

LIFE EXPECTANCY

Electrical:	200,000 operations @ rated resistive load
Mechanical:	10,000,000 operations @ no load

MISCELLANEOUS

Operating Position:	Any
Insulation Material:	Molded plastic
Enclosure:	Polycarbonate dust cover
Weight:	SPDT & DPDT 35 grams approx

**SPDT, DPDT & 4PDT,
3, 5, 10 & 15 AMPS**

UL **us**
UL Recognized
File No. E52197



LISTED 367G
IND. CONT. EQ.

C US
WHEN USED
WITH SOCKETS
70-459-1 OR 70-461-1

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



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

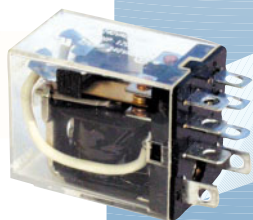
**MANUFACTURED UNDER
ISO 9002 & QS 9000**



**4PDT, QUICK
CONNECT
SOLDER/PLUG-IN**



**4PDT, PRINTED CIRCUIT
3, 5 OR 10 AMP**



**SPDT, DPDT, QUICK CONNECT
SOLDER/PLUG-IN
15 AMP**



**SPDT, DPDT, PRINTED CIRCUIT
10 OR 15 AMP**

Mating Sockets

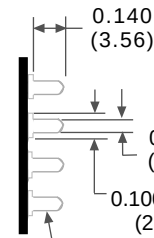
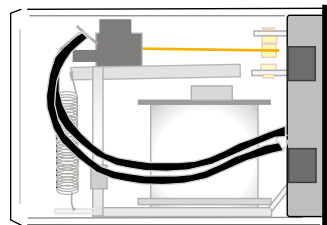
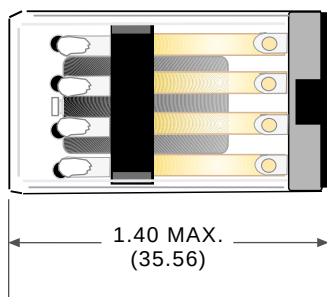
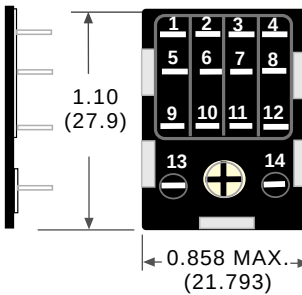
**70-782D-1, 70-459-1,
70-461-1: SCREW/DIN
70-401-1, 70-378-1: SOLDER
70-402-1, 70-379-1:
PRINTED CIRCUIT**

See section 8, page 13, 14, 15, 20



4PDT, 3 & 5 AMPS**OUTLINE DIMENSIONS**

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).

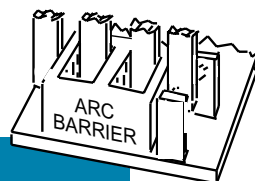
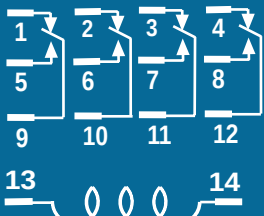
**PRINTED CIRCUIT
MOUNTING HOLE LAYOUT**
(BOTTOM VIEW)**QUICK CONNECT
SOLDER / PLUG-IN
TERMINALS****PRINTED CIRCUIT
TERMINALS****DIN ADAPTER
16-782C****FLANGE ADAPTER
16-782C1**

NEW SLOTTED PLAIN COVER,
ALLOWS FOR INSTALLATION OF
THE OPTIONAL TOP MOUNT DIN
OR TOP/BOTTOM MOUNT FLANGE
ADAPTERS. ADAPTERS ORDERED
SEPARATELY



SEE CLASS 782XDX FOR
PART NUMBERS WITH
L.E.D. STATUS LAMP
AND PUSH BUTTON

**ALL 4 POLE RELAYS HAVE
OPPOSITE POLARITY ARC
BARRIERS AS A STANDARD
FEATURE TO PROVIDE
GREATER VOLTAGE
PROTECTION BETWEEN
ADJACENT POLES**

**WIRING DIAGRAM**
(VIEWED FROM PIN END)

STANDARD PART NUMBERS 4PDT	TOP FLANGE COVER	COIL MEASURED @ 25°C	
		NOMINAL INPUT VOLTAGE	NOMINAL RESISTANCE (OHMS)
AC OPERATED - SOLDER/PLUG-IN, 3 AMP, BIFURCATED			
W78ATCSX-2	78ATCSX-8	12 VAC, 50/60 Hz	46 Ω
W78ATCSX-3	78ATCSX-9	24 VAC, 50/60 Hz	180 Ω
W78ATCSX-5	78ATCSX-11	120 VAC, 50/60 Hz	4430 Ω
W78ATCSX-6	78ATCSX-12	240 VAC, 50/60 Hz	15, 700 Ω
DC OPERATED - SOLDER/PLUG-IN, 3 AMP, BIFURCATED			
W78TCSX-1	78TCSX-6	6 VDC	40 Ω
W78TCSX-2	78TCSX-7	12 VDC	160 Ω
W78TCSX-3	78TCSX-8	24 VDC	650 Ω
W78TCSX-5	78TCSX-10	110 VDC	11,000 Ω
AC OPERATED - SOLDER/PLUG-IN, 3 AMP			
W78ACSX-2	78ACSX-9	12 VAC, 50/60 Hz	46 Ω
W78ACSX-3	78ACSX-10	24 VAC, 50/60 Hz	180 Ω
W78ACSX-5	78ACSX-12	120 VAC, 50/60 Hz	4430 Ω
W78ACSX-6	78ACSX-13	240 VAC, 50/60 Hz	15, 700 Ω
DC OPERATED - SOLDER/PLUG-IN, 3 AMP			
W78CSX-1	78CSX-8	6 VDC	40 Ω
W78CSX-2	78CSX-9	12 VDC	160 Ω
W78CSX-3	78CSX-10	24 VDC	650 Ω
W78CSX-6	78CSX-12	110 VDC	11,000 Ω
AC OPERATED PRINTED CIRCUIT, 3 AMP			
W78APCX-3		24 VAC, 50/60 Hz	180 Ω
W78APCX-5		120 VAC, 50/60 Hz	4430 Ω
DC OPERATED PRINTED CIRCUIT, 3 AMP			
W78PCX-2		12 VDC	160 Ω
W78PCX-3		24 VDC	650 Ω
W78PCX-6		110 VDC	11,000 Ω
AC OPERATED - SOLDER/PLUG-IN, 5 AMP			
W78KACSX-15		24 VAC, 50/60 Hz	180 Ω
W78KACSX-17		120 VAC, 50/60 Hz	4430 Ω
W78KACSX-18		240 VAC, 50/60 Hz	15, 700 Ω
DC OPERATED - SOLDER/PLUG-IN, 5 AMP			
W78KCSX-12		12 VDC	160 Ω
W78KCSX-13		24 VDC	650 Ω

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