

SPDT, 15 AMPS

FEATURES

BENEFITS

FLAG INDICATOR:

SHOWS RELAY STATUS IN MANUAL OR POWERED CONDITION.

L.E.D. STATUS LAMP:

SHOWS COIL "ON" OR "OFF" STATUS. IDEAL IN LOW LIGHT CONDITIONS.

PUSH BUTTON:

ALLOWS FOR MANUAL OPERATION OF RELAY WITHOUT THE NEED FOR COIL POWER. IDEAL FOR FIELD SERVICE PERSONNEL TO TEST CONTROL CIRCUITS.

FINGER-GRIP COVER:

ALLOWS OPERATOR TO REMOVE RELAYS FROM SOCKETS MORE EASILY THAN CONVENTIONAL RELAYS.

I.D. TAG/WRITE LABEL:

USED FOR IDENTIFICATION OF RELAYS IN MULTI-RELAY CIRCUITS.

COVER ADAPTERS:

DIN RAIL ADAPTER OR TOP/BOTTOM FLANGE ADAPTER, ALLOWS THE 781 RELAY TO BE DIRECT MOUNTED TO A DIN RAIL OR PANEL.

UL us
UL Recognized
File No. E43641

CS 97899

CE

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**

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: 0.7 watts DC, 0.9 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 @ 25°C
Duty: Continuous

CONTACTS

Contact Material: Silver cadmium oxide, gold flashed
Contact Rating: 15 amps @ 110/120 VAC 50/60Hz, 12 amps @ 220/277 VAC 50/60Hz, 15 amps @ 28 VDC 1/2Hp @ 110/120 V 50/60Hz, 1Hp @ 220/250 V 50/60Hz, B300 pilot duty 50/60Hz, 3000 VA max. Break; 10 amps max. Continuous and break; 15 amps max. Make; 300V 50/60Hz max.; (general purpose load, 0.75 to 1.0 power factor)

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 +100°C

LIFE EXPECTANCY

Electrical: 150,000 operations @ rated resistive load
Mechanical: 10,000,000 operations @ no load

MISCELLANEOUS

Operating Position: Any
Insulation Material: Molded plastic
Enclosure: Polycarbonate dust cover
Weight: 29 grams approx.



STANDARD COVER



STANDARD COVER WITH FLANGE ADAPTER ON TOP 16-781C1 SEE ORDERING CODE

MAY ALSO BE ORDERED SEPARATELY



STANDARD COVER WITH FLANGE ADAPTER ON BOTTOM 16-781C1A SEE ORDERING CODE

MAY ALSO BE ORDERED SEPARATELY



STANDARD COVER WITH DIN ADAPTER 16-781C SEE ORDERING CODE

MAY ALSO BE ORDERED SEPARATELY

Mating Sockets

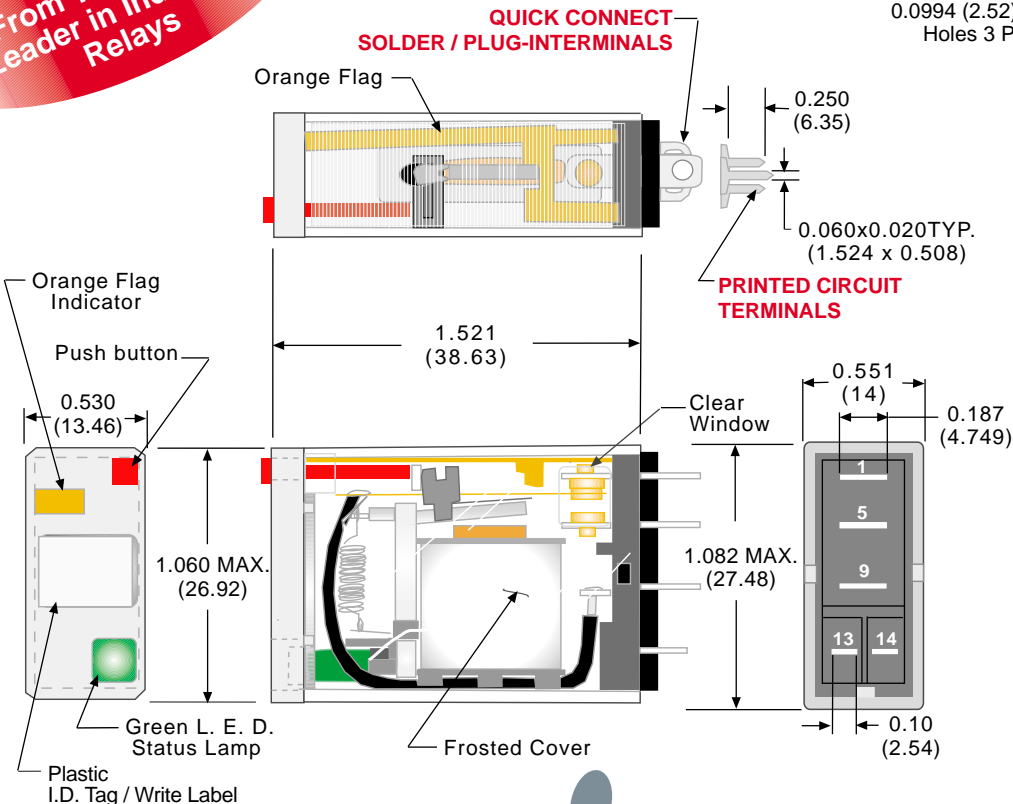
- 70-781D-1: SCREW/DIN
- 70-781F-1: SOLDER
- 70-781T-1: PRINTED CIRCUIT

See section 8, page 18, 19

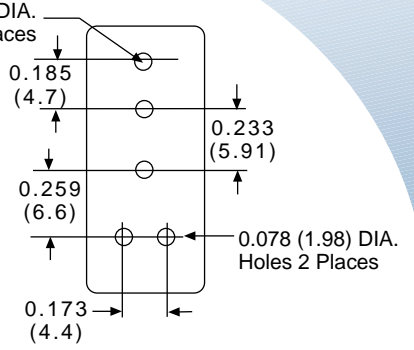


NEW
From The Market
Leader in Industrial
Relays

OUTLINE DIMENSIONS
DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).

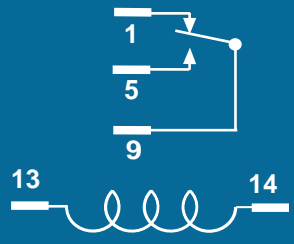


PRINTED CIRCUIT MOUNTING HOLE LAYOUT (BOTTOM VIEW)



**BI - POLAR
L.E.D. STATUS LAMP
ALLOWS FOR REVERSE
POLARITY APPLICATIONS**

WIRING DIAGRAM (VIEWED FROM PIN END)



ORDERING CODE FOR RELAYS

	781 XAX	ML- 120A
CLASS:		
CONTACT CONFIGURATION: SPDT: XAX		
TERMINAL STYLE: QUICK CONNECT SOLDER / PLUG-IN TERMINALS: NO CODE PRINTED CIRCUIT TERMINALS: CODE T		
OPTIONS: DIN RAIL FLANGE ADAPTER (TOP MOUNTED ONLY): CODE C TOP OR BOTTOM FLANGE ADAPTER (TOP MOUNTED): CODE C1 TOP OR BOTTOM FLANGE ADAPTER (BOTTOM MOUNTED): CODE C1A		
STANDARD FEATURES: PUSH BUTTON: CODE M L. E. D. STATUS LAMP: CODE L		
COIL VOLTAGE: 6, 12, 24, 120, 220/230, 240 ADD "A" FOR AC COILS 6, 12, 24, 48, 110 ADD "D" FOR DC COILS		

STANDARD PART NUMBERS SPDT	COIL MEASURED @ 25°C	
	NOMINAL INPUT VOLTAGE	NOMINAL RESISTANCE (OHMS)
AC OPERATED - SOLDER/PLUG-IN, 15 AMP		
781XAXML-24A	24 VAC, 50/60Hz	180 Ω
781XAXML-120A	120 VAC, 50/60Hz	4,430 Ω
781XAXML-240A	240 VAC, 50/60HZ	9,100 Ω
DC OPERATED - SOLDER/PLUG-IN, 15 AMP		
781XAXML-12D	12 VDC	120 Ω
781XAXML-24D	24 VDC	470 Ω
781XAXML-110D	110 VDC	10,000 Ω
AC OPERATED - PRINTED CIRCUIT, 15 AMP		
781XAXTML-120A	120 VAC, 50/60Hz	4,430 Ω
DC OPERATED - PRINTED CIRCUIT, 15 AMP		
781XAXTML-12D	12 VDC	120 Ω
781XAXTML-24D	24 VDC	470 Ω

RETROFITS IDEC RH1B-L & RH1V2-L. SEE END OF SECTION 1 FOR CROSS REFERENCE
CADMIUM-FREE CONTACTS AVAILABLE, CONTACT FACTORY FOR DETAILS