

SPDT, 15 AMPS

FEATURES

BENEFITS

FLAG INDICATOR:	SHOWS RELAY STATUS IN MANUAL OR POWERED CONDITION.
BI - POLAR 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

SA 97899

UL LISTED 367G
IND. CONT. EQ.
C **US**

WHEN USED WITH
SOCKETS 70-781D-1

CURRENT LIMITED TO
RATING OF RELAY OR
SOCKET WHICHEVER
IS LESS

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

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%, AC-30% 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 alloy, 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 VAC 50/60Hz. 1Hp @ 220/250 VAC 50/60Hz. B300 pilot duty 50/60Hz. 10 amps @ 120 VAC general purpose 10 amps @ 240 VAC general purpose (general purpose load, 75% to 80% 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.



**MANUFACTURED UNDER
ISO 9002 & QS 9000**

STANDARD COVER



**STANDARD COVER WITH
FLANGE ADAPTER 16-781C1
ON TOP**



**STANDARD COVER WITH
FLANGE ADAPTER 16-781C1
ON BOTTOM**



**STANDARD COVER
WITH DIN ADAPTER
16-781C**

**TOP OR BOTTOM FLANGE
ADAPTER ORDERED AND
SHIPPED SEPARATELY**

**TOP OR BOTTOM FLANGE
ADAPTER ORDERED AND
SHIPPED SEPARATELY**

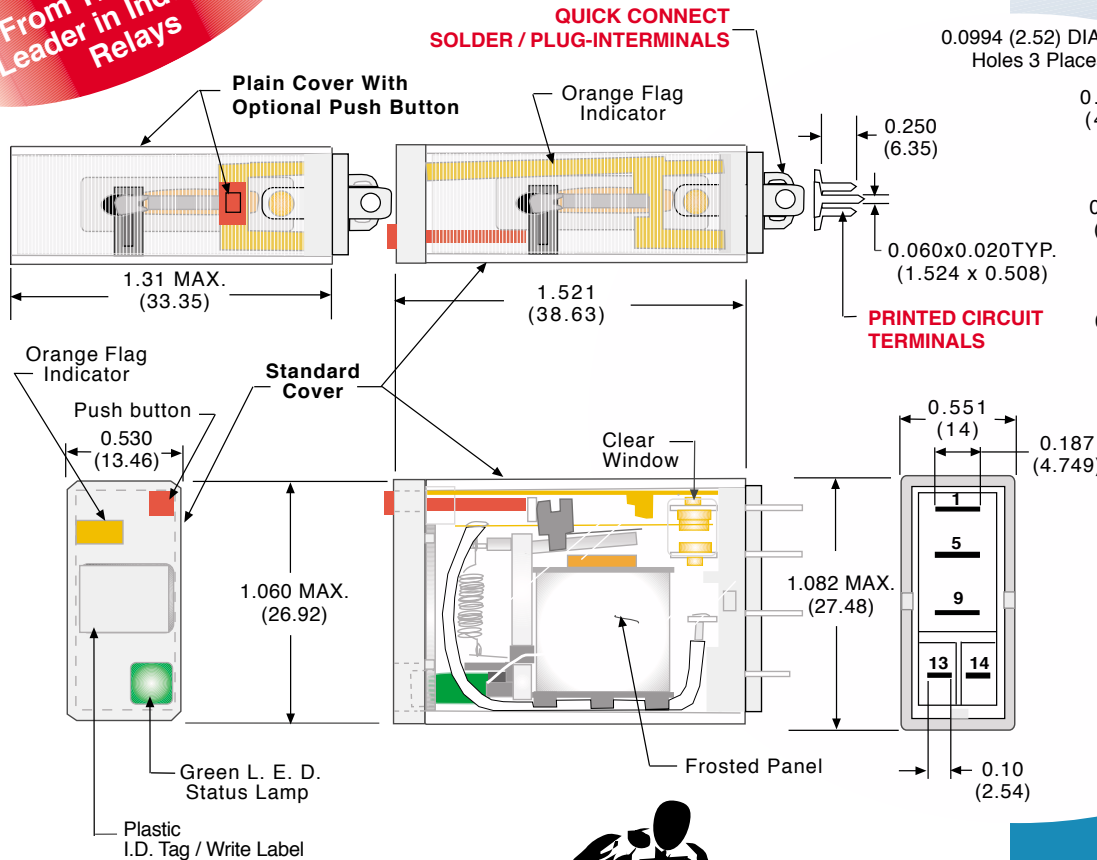
**DIN ADAPTER ORDERED AND
SHIPPED SEPARATELY**

Mating Sockets
70-781D-1: SCREW/DIN
70-781F-1: SOLDER
70-781T-1: PRINTED CIRCUIT
See section 8, page 18, 19

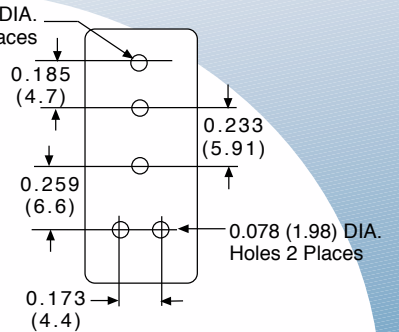


NEW
From The Market
Leader in Industrial
Relays

OUTLINE DIMENSIONS
DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).

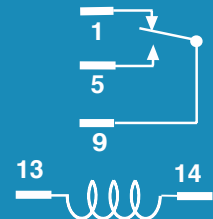


PRINTED CIRCUIT MOUNTING HOLE LAYOUT
(BOTTOM VIEW)



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

WIRING DIAGRAM
(VIEWED FROM PIN END)



ORDERING CODE FOR RELAYS

CLASS: 781 XAX ML -120A

CONTACT CONFIGURATION:
SPDT: XAX

TERMINAL STYLE:
QUICK CONNECT SOLDER / PLUG-IN TERMINALS: NO CODE
PRINTED CIRCUIT TERMINALS: CODE T

OPTIONAL PLAIN COVER:
CODE C

STANDARD COVER FEATURES:
PUSH BUTTON : CODE M
BI - POLAR L.E.D. STATUS LAMP: CODE L

OPTIONAL PLAIN COVER FEATURES:
PUSH BUTTON : CODE M
BI - POLAR 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

COIL MEASURED @ 25°C

STANDARD PART NUMBERS SPDT	PLAIN COVER	NOMINAL INPUT VOLTAGE	NOMINAL RESISTANCE (OHMS)
AC OPERATED - SOLDER/PLUG-IN, 15 AMP			
781XAXML-24A	781XAXC-24A	24 VAC, 50/60Hz	180 Ω
781XAXML-120A	781XAXC-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	781XAXC-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- & RH1V2-. SEE END OF SECTION 1 FOR CROSS REFERENCE CADMIUM-FREE CONTACTS AVAILABLE, CONTACT FACTORY FOR DETAILS