

SERIES 781

SPDT 15 AMP SLIM MIDGET POWER RELAY

FEATURES

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.

PUSHBUTTON:

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.

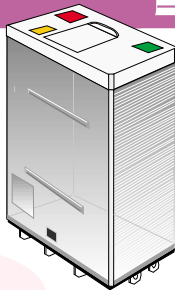
I.D. TAG/WRITE LABEL:

USED FOR IDENTIFICATION OF RELAYS IN MULTI-RELAY CIRCUITS.

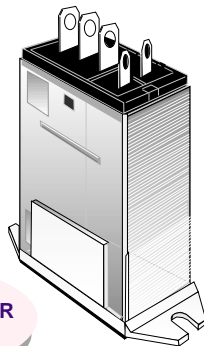
COVER ADAPTERS:

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

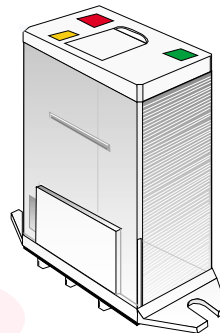
BENEFITS



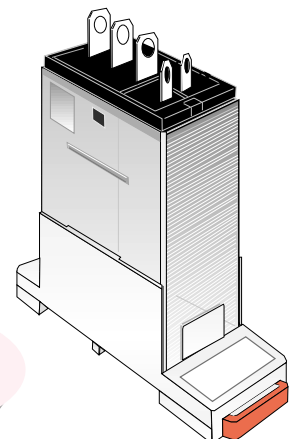
STANDARD COVER



STANDARD COVER WITH FLANGE ADAPTER ON TOP
16-781C1



STANDARD COVER WITH FLANGE ADAPTER ON BOTTOM
16-781C1



STANDARD COVER WITH DIN ADAPTER
16-781C

UL us
UL Recognized
File No. E43641

CE
PENDING

MANUFACTURED UNDER
ISO 9002 & QS 9000

REPLACES IDEC
RHI-B & RH1-V2
SERIES RELAYS

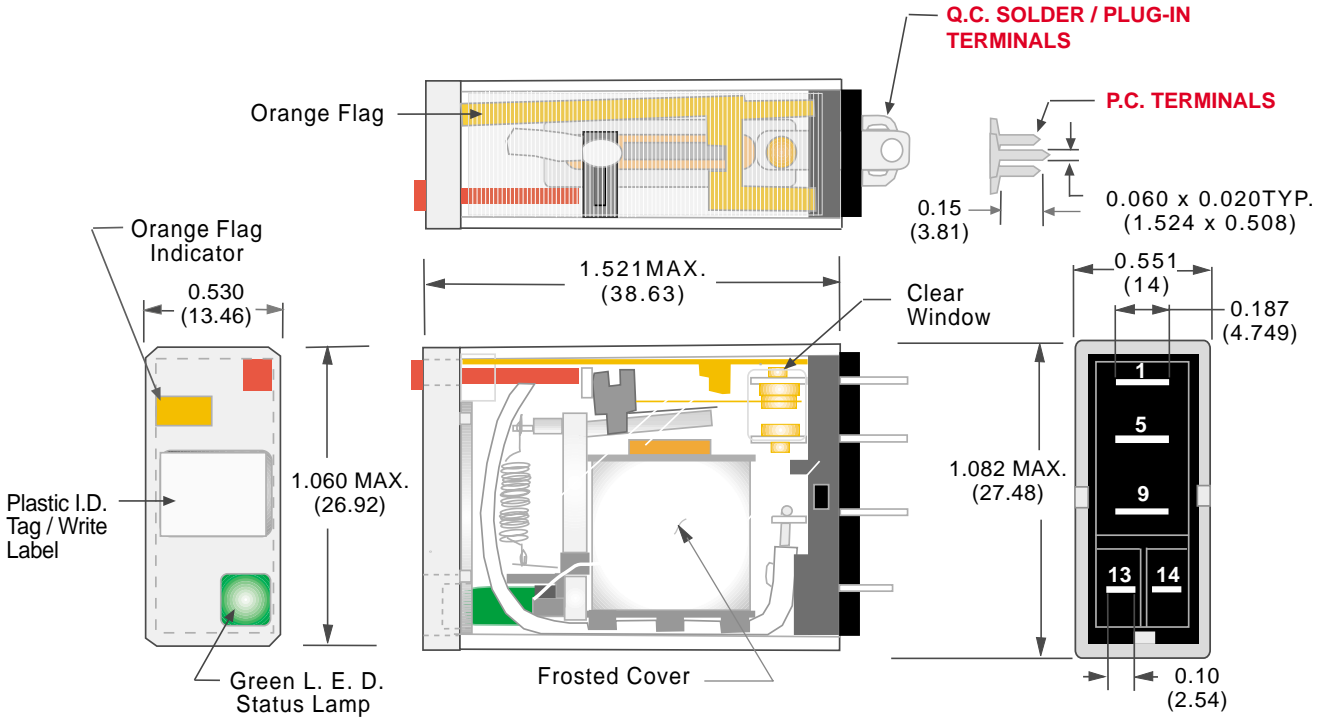


SERIES 781

SPDT 15 AMP SLIM MIDGET POWER RELAY

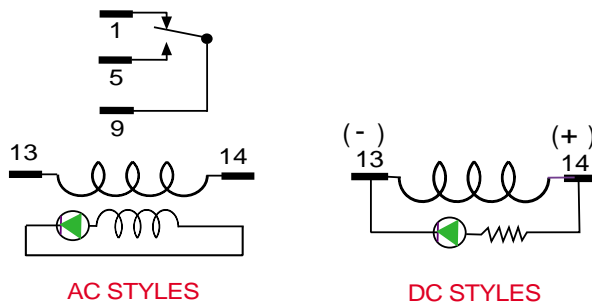
OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).



WIRING DIAGRAM

(VIEWED FROM PIN END)

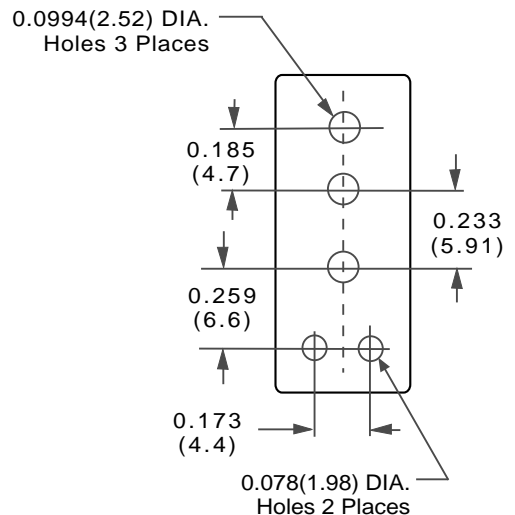


AC STYLES

DC STYLES

P.C. MOUNTING HOLE LAYOUT

(BOTTOM VIEW)



OBSERVE POLARITY WHEN L. E. D. STATUS LAMP IS INSTALLED ACROSS COIL. (DC STYLES TYPICAL.)

SERIES 781

SPDT 15 AMP SLIM MIDGET POWER RELAY

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, N.O.
1HP @ 220/250 V 50/60Hz, N.O.

*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

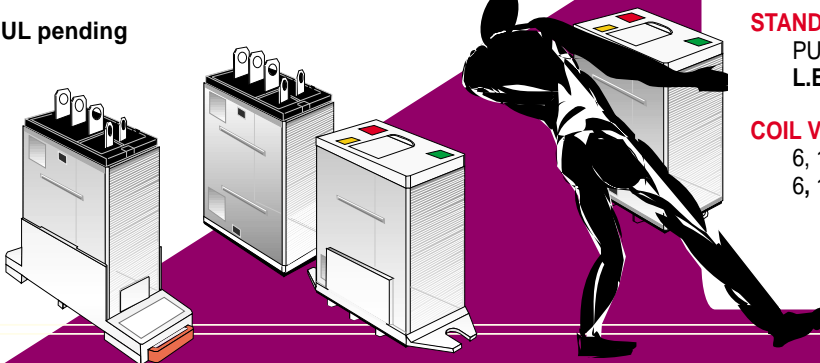
Operating Position: Any

Insulation Material: Molded Plastic.

Enclosure: Polycarbonate Dust Cover.

Weight: 29 g (Approx)

* UL pending



781 STANDARD PART NUMBERS

PART NUMBERS	COIL MEASURED @ 25°C		CROSS REFERENCE IDEC
	NOMINAL INPUT VOLTAGE	NOMINAL RESISTANCE (OHMS)	
AC OPERATED COIL - SOLDER/PLUG-IN, 15 AMP			
781XAXML-24A	24 VAC, 50/60Hz	72 Ω	RH1B-U-AC24
781XAXML-120A	120 VAC, 50/60Hz	1,700 Ω	RH1B-U-AC120
781XAXML-240A	240 VAC, 50/60Hz	9,100 Ω	RH1B-U-AC240
DC OPERATED COIL - SOLDER/PLUG-IN, 15 AMP			
781XAXML-12D	12 VDC	120 Ω	RH1B-U-DC12
781XAXML-24D	24 VDC	470 Ω	RH1B-U-DC24
781XAXML-110D	110 VDC	10,000 Ω	RH1B-U-DC110
AC OPERATED COIL - PRINTED CIRCUIT 15 AMP			
781XAXTML-120A	120 VAC, 50/60Hz	1,700 Ω	RH1V2-U-AC120
DC OPERATED COIL - PRINTED CIRCUIT 15 AMP			
781XAXTML-12D	12 VDC	120 Ω	RH1V2-U-DC12
781XAXTML-24D	24 VDC	470 Ω	RH1V2-U-DC24

ORDERING CODE FOR RELAYS

781 XAX **ML- 120A**

SERIES: _____

CONTACT ARRANGEMENT: SPDT - XAX

TERMINAL STYLE: Q.C. SOLDER / PLUG-IN
TERMINALS - NO CODE
PRINTED CIRCUIT TERMINALS - CODE T

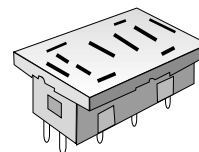
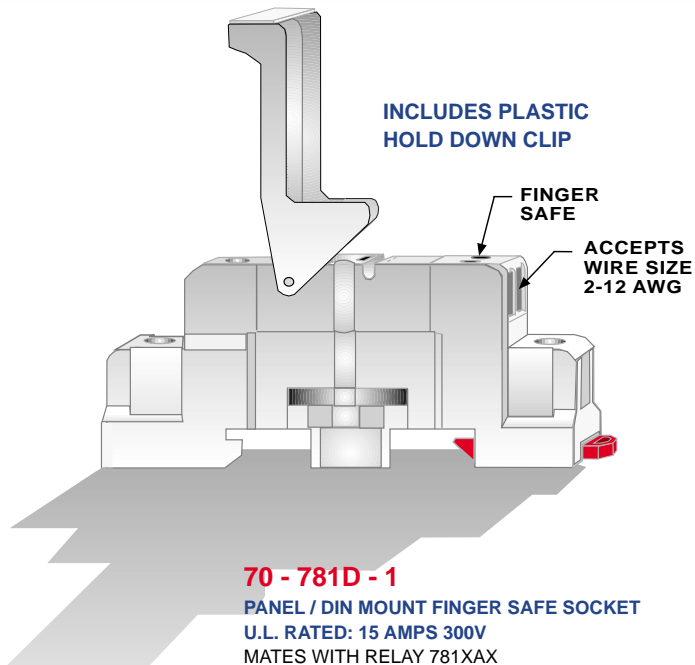
OPTIONS: DIN RAIL FLANGE ADAPTER
(TOP MOUNTED ONLY) - CODE C
TOP OR BOTTOM FLANGE ADAPTER
(TOP MOUNTED) - CODE C1
TOP OR BOTTOM FLANGE ADAPTER
(BOTTOM MOUNTED) - CODE C1A

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

COIL VOLTAGE: 6, 12, 24, 120, 223/230, 240 ADD "A" FOR VAC COILS
6, 12, 24, 48, 110 ADD "D" FOR VDC COILS

SERIES 781

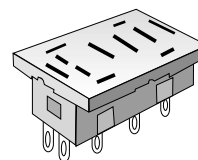
SPDT SOCKETS



0.720(W) x 1.230(L) MAX
(18.288 x 31.242)

70 - 781T - 1

P. C. TERMINAL SOCKET
U.L. RATED 15 AMPS 150V, 10 AMPS 300V
16 -1326 HOLD DOWN CLIP ORDERED SEPARATELY



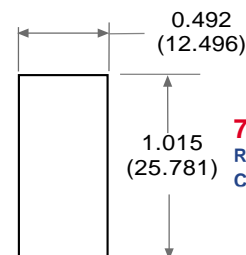
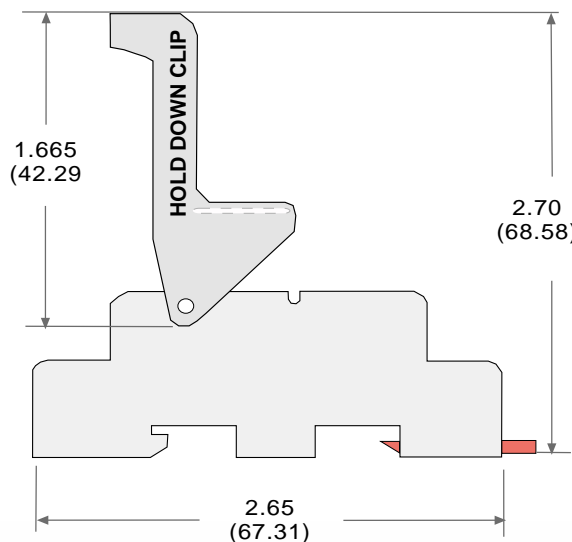
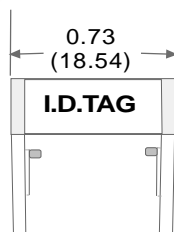
0.720(W) x 1.230(L) MAX
(18.288 x 31.242)

70 - 781F - 1

SOLDER TERMINAL SOCKET
U.L. RATED 15 AMPS 150V, 10 AMPS 300V
16 -1326 HOLD DOWN CLIP ORDERED SEPARATELY

OUTLINE DIMENSIONS

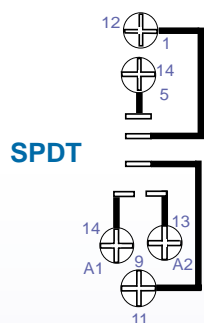
DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).



70 - 781F - 1
RECOMMENDED CHASSIS CUTOUT

WIRING DIAGRAM

(TOP VIEW)



SUPPLIED WITH REMOVABLE HOLD DOWN CLIP

MATES WITH IDEC RH1 RELAY



PART NUMBERS	STYLES	CROSS REFERENCE IDEC
70 - 781D - 1	SCREW TERMINAL	SH1B-05
70 - 781F - 1	SOLDER TERMINAL	SH1B-51
70 - 781T - 1	P. C. TERMINAL	SH1B-62