

FEATURES

BENEFITS

FLAG INDICATOR:

SHOWS RELAY STATUS IN MANUAL OR POWERED CONDITION.

BI - POLAR L.E.D. STATUS LAMP:

ALLOWS FOR REVERSE POLARITY APPLICATIONS, SHOWS COIL "ON" OR "OFF" STATUS. IDEAL IN LOW LIGHT CONDITIONS.

COLOR CODED PUSH BUTTON:

IDENTIFIES AC COILS WITH RED OR DC COILS WITH BLUE PUSH BUTTONS. ALLOWS FOR MANUAL OPERATION OF RELAY WITHOUT THE NEED FOR COIL POWER. IDEAL FOR FIELD SERVICE PERSONNEL TO TEST CONTROL CIRCUITS.

LOCK-DOWN DOOR:

WHEN ACTIVATED, HOLDS PUSH BUTTON AND CONTACTS IN THE OPERATE POSITION. EXCELLENT FOR ANALYZING CIRCUIT PROBLEMS.

FINGER - GRIP COVER:

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

WHITE PLASTIC 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 700 RELAYS TO BE DIRECT MOUNTED TO A DIN RAIL OR PANEL.



UL Recognized
File No. E43641



40787



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



LISTED 367G
IND. CONT. EQ.

WHEN USED WITH SOCKETS:

781:70-781D-1

782:70-782D-1

70-459-1

70-461-1

783:70-783D-1

784:70-784D-1

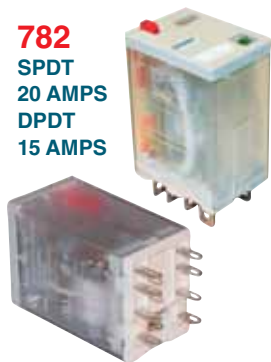
CURRENT LIMITED TO RATING OF RELAY OR SOCKET WHICHEVER IS LESS

MANUFACTURED UNDER ISO 9002 & QS 9000

781
SPDT
15 AMPS



782
SPDT
20 AMPS
DPDT
15 AMPS



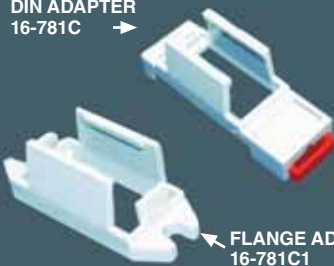
783
3PDT
15 AMPS



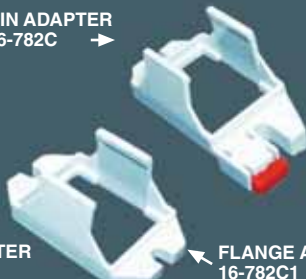
784
4PDT
15 AMPS



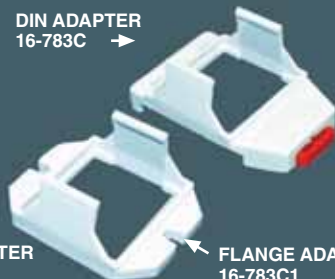
DIN ADAPTER
16-781C



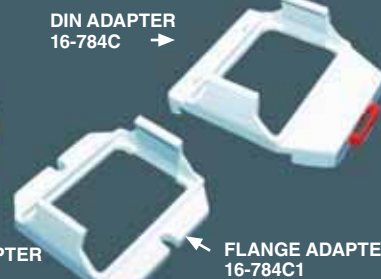
DIN ADAPTER
16-782C



DIN ADAPTER
16-783C



DIN ADAPTER
16-784C



FLANGE ADAPTER
16-781C1

FLANGE ADAPTER
16-782C1

FLANGE ADAPTER
16-783C1

FLANGE ADAPTER
16-784C1

OPTIONAL ADAPTERS ORDERED SEPARATELY





GENERAL SPECIFICATIONS (@ 25°C)

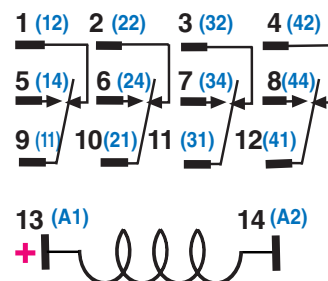
	UNITS	781XAX	782XAX	782XBX	783	784
COIL						
Pull-in Voltage AC (50/60 Hz):≤	% of nominal	85	85	85	85	85
Pull-in Voltage DC:≤	% of nominal	80	80	80	80	80
Dropout Voltage AC (50/60 Hz):≥	% of nominal	10	10	10	10	10
Dropout Voltage DC:≥	% of nominal	10	10	10	10	10
Maximum Voltage:	% of nominal	110	110	110	110	110
Resistance:	% ±	15	15	15	15	15
Coil Power AC (60 Hz):	VA	0.9	1.2	1.2	1.5	1.5
Coil Power DC:	W	0.7	0.9	0.9	1.7	2
Insulation System Per UL Standard 1446:		Class B (130 °C)	Class B (130 °C)	Class B (130 °C)	Class B (130 °C)	Class B (130 °C)
Maximum Coil Dissipation, AC (60 Hz):	VA	2.55	2.55	2.55	3	3
Maximum Coil Dissipation, DC:	W	2.3	2.3	2.3	3.4	2.3
Duty:		Continuous	Continuous	Continuous	Continuous	Continuous
CONTACTS						
Contact Material:		Silver alloy, gold flashed	Silver alloy, gold flashed	Silver alloy, gold flashed	Silver alloy, gold flashed	Silver alloy, gold flashed
Contact Rating AC Amperes (AC1):	A	15	20	15 / 12	15 / 12	15 / 12
Contact Rating AC Voltage:	V	277	277	120 / 277	120 / 277	120 / 277
Contact Rating DC Amperes (DC1):	A	15 / 0.5	20 / 0.5	12 / 0.5	15 / 0.5	15 / 0.5
Contact Rating DC Voltage:	V	28 / 220	28 / 220	28 / 220	28 / 220	28 / 220
General Purpose Rating (75%-80% pf):	A @ V	10 @ 240				
Horse Power (AC):	HP	1/2 @ 120 V	1/2 @ 120 V	1/2 @ 120 V	1/2 @ 120 V	1/2 @ 120 V
Horse Power (AC):	HP	1 @ 250 V	1 @ 250 V	1 @ 250 V	3/4 @ 250 V	3/4 @ 250 V
Pilot Duty (60 Hz):		B300	B300	B300	B300	B300
Utilization Category:	IEC	AC15	AC15	AC15	AC15	AC15
VA Rating Make:	VA	3600	3600	3600	3600	3600
VA Rating Break:	VA	360	360	360	360	360
Minimum Recommended Load:	ma	100 @ 5 VDC or 0.5 W	100 @ 5 VDC or 0.5 W	100 @ 5 VDC or 0.5 W	100 @ 5 VDC or 0.5 W	100 @ 5 VDC or 0.5 W
TIMING						
Operate Time:	ms	20	20	25	25	20
Release Time:	ms	20	20	20	20	20
DIELECTRIC STRENGTH						
Coil to Contacts:	V rms	2500	2500	2500	2500	2500
Across Open Contacts:	V rms	1500	1500	1000	1000	1000
Pole to Pole:	V rms			2500	2500	2500
Insulation Resistance:	megohms minimum @ VDC	100 @ 500	100 @ 500	100 @ 500	100 @ 500	100 @ 500
VIBRATION RESISTANCE						
Functional:	g's	10-55 Hz, 6 g's, 1mm double amplitude	10-55 Hz, 6g's 1mm double amplitude	10-55 Hz, 6g's 1mm double amplitude	10-55 Hz, 6g's 1mm double amplitude	10-55 Hz, 6g's 1mm double amplitude
SHOCK RESISTANCE						
Functional:	g's	10	10	10	10	10
TEMPERATURE						
Operating, AC Lower:	°C	-40	-40	-40	-40	-40
Operating, AC Upper:	°C	+70	+70	+70	+70	+70
Operating, DC Lower:	°C	-40	-40	-40	-40	-40
Operating, DC Upper:	°C	+70	+70	+70	+70	+70
Storage, Lower:	°C	-40	-40	-40	-40	-40
Storage, Upper:	°C	+105	+105	+105	+105	+105
LIFE EXPECTANCY						
Electrical @ Rated Load (AC1):	operations	15 A: 100,000 20 A: 50,000	100,000	200,000	150,000	150,000
Mechanical @ no Load :	operations	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
MISCELLANEOUS						
Operating Position:		Any	Any	Any	Any	Any
Insulation Material:	94V-0	Molded plastic	Molded plastic	Molded plastic	Molded plastic	Molded plastic
Enclosure Material:	94V-0	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Cover Protection Category:	IP	40	40	40	40	40
Terminals:	Inch (mm)	0.187, 0.1, 0.08 x 0.020 (4.47, 2.54, 2.03 x 0.508)	0.187, 0.08 x 0.020 (4.47, 2.03 x 0.508)	0.187, 0.08 x 0.020 (4.47, 2.03 x 0.508)	0.187, 0.08 x 0.020 (4.47, 2.03 x 0.508)	0.187, 0.08 x 0.020 (4.47, 2.03 x 0.508)
Weight:	grams	29	36	36	60	80

784 - 4 POLE "ICE CUBE" POWER RELAY



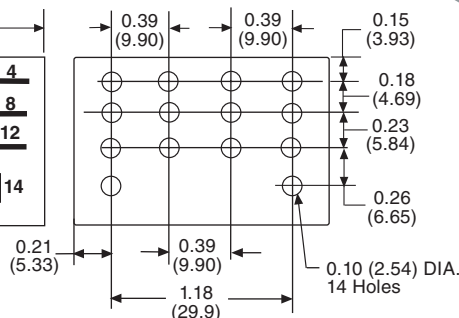
4PDT, 15 AMPS

WIRING DIAGRAM (VIEWED FROM PIN END)

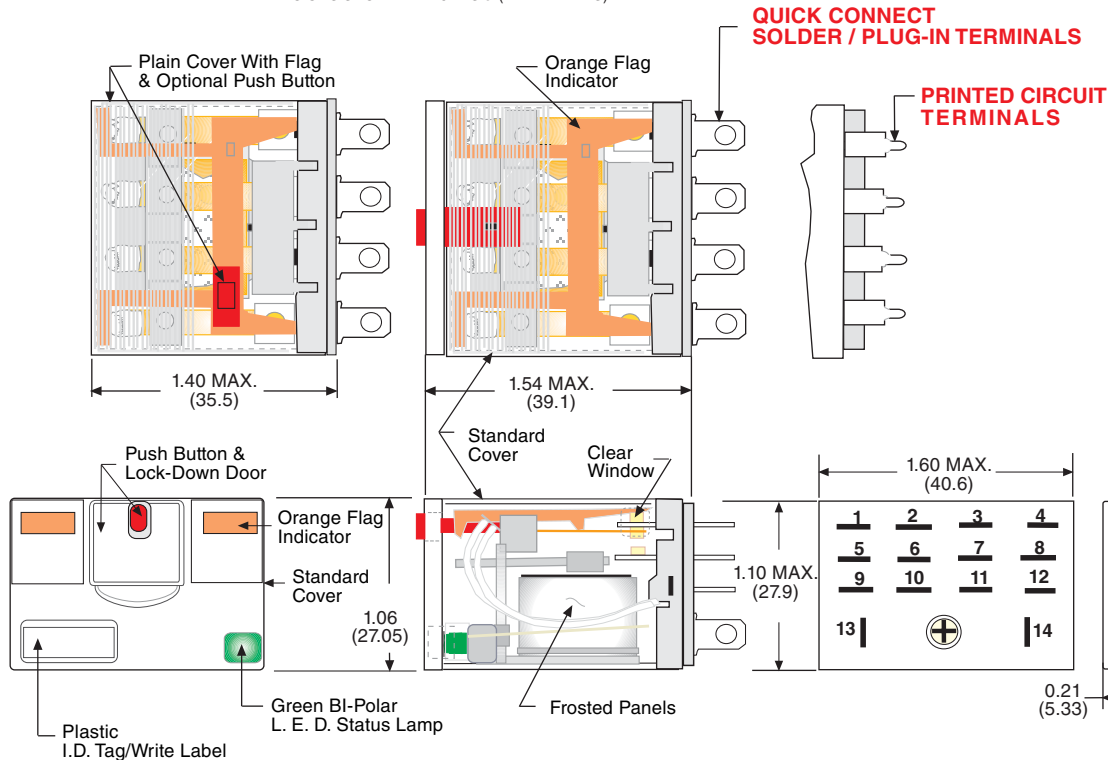


ALTERNATE NEMA OR IEC () NUMBERS VIEWED FROM PIN SIDE

PRINTED CIRCUIT MOUNTING HOLE LAYOUT (TOP VIEW)



OUTLINE DIMENSIONS DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).



ORDERING CODE

784 **XDX** **M4L** **-120A**

- CLASS:** _____
- CONTACT CONFIGURATION:**
4PDT: XDX
- OPTIONAL PLAIN COVER:**
CODE C
- TERMINAL STYLE:**
QUICK CONNECT SOLDER / PLUG-IN TERMINALS: NO CODE
PRINTED CIRCUIT TERMINALS: CODE T
- FULL FEATURED VERSION:**
PUSH BUTTON & LOCK-DOWN DOOR: CODE M4
BI - POLAR L.E.D. STATUS LAMP: CODE L
- OPTIONAL FULL FEATURED DELETION:**
PUSH BUTTON WITHOUT LOCK-DOWN DOOR: CODE M
- OPTIONAL PLAIN COVER FEATURES:**
PUSH BUTTON WITHOUT LOCK-DOWN DOOR: CODE M
POLARIZED L.E.D. STATUS LAMP: CODE L
(OBSERVE POLARITY+)
- COIL VOLTAGE:**
6, 12, 24, 120, 220/230, 240 ADD "A" FOR AC COILS
6, 12, 24, 48, 110 ADD "D" FOR DC COILS



Mating Socket
70-784D-1: SCREW/DIN
See section 7



FULL FEATURED	PLAIN COVER WITH FLAG	COIL MEASURED @ 25 °C	
		NOMINAL INPUT VOLTAGE	NOMINAL RESISTANCE (OHMS)
AC OPERATED - SOLDER/PLUG-IN, 15 AMP			
784XDXM4L-24A	784XDXC-24A	24 VAC, 50/60 Hz	84.5 Ω
784XDXM4L-120A	784XDXC-120A	110/120 VAC, 50/60 Hz	2220 Ω
784XDXM4L-220/230A		220/230 VAC, 50/60 Hz	9120 Ω
784XDXM4L-240A		240 VAC, 50/60 Hz	9120 Ω
DC OPERATED - SOLDER/PLUG-IN, 15 AMP			
784XDXM4L-12D		12 VDC	96 Ω
784XDXM4L-24D	784XDXC-24D	24 VDC	388 Ω
784XDXM4L-110D		110/125 VDC	7340 Ω
AC OPERATED - PRINTED CIRCUIT, 15 AMP			
784XDXTM4L-120A		110/120 VAC, 50/60 Hz	2220 Ω
DC OPERATED - PRINTED CIRCUIT, 15 AMP			
784XDXTM4L-12D		12 VDC	96 Ω
784XDXTM4L-24D		24 VDC	388 Ω

RETROFITS IDEC RH4B- & RH4V2-
SEE END OF SECTION 1 FOR CROSS REFERENCE