

UL US
UL Recognized
File No. E43641



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
SOCKET 70-463-1

CURRENT LIMITED TO
RATING OF RELAY OR
SOCKET WHICHEVER
IS LESS

FEATURES

FLAG INDICATOR:

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

COLOR CODED PUSH BUTTON:

LOCK-DOWN DOOR:

FINGER - GRIP COVER:

WHITE PLASTIC I.D. TAG/WRITE LABEL:

SHOWS RELAY STATUS IN MANUAL OR POWERED CONDITION.

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

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.

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

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

USED FOR IDENTIFICATION OF RELAYS IN MULTI-RELAY CIRCUITS.



**MANUFACTURED
UNDER
ISO 9002
& QS 9000**



GENERAL SPECIFICATIONS (@ 25°C)

	UNITS	
COIL		
Pull-in Voltage AC (50/60 Hz):≤	% of nominal	85
Pull-in Voltage DC:≤	% of nominal	80
Dropout Voltage AC (50/60 Hz):≥	% of nominal	10
Dropout Voltage DC:≥	% of nominal	10
Maximum Voltage:	% of nominal	110
Resistance:	% ±	10
Coil Power AC (60 Hz):	VA	2.0 - 3.0
Coil Power DC:	W	1.4
Insulation System Per UL Standard 1446:		Class B (130 °C)
Maximum Coil Dissipation, AC (60 Hz):	VA	3.5
Maximum Coil Dissipation, DC:	W	3
Duty:		Continuous
CONTACTS		
Contact Material:		Silver alloy, gold flashed
Contact Rating AC Amperes (AC1):	A	16
Contact Rating AC Voltage:	V	277
Contact Rating DC Amperes (DC1):	A	16 / 0.5
Contact Rating DC Voltage:	V	28 / 220
Horse Power (AC):	HP	1/3 @ 120 V
Horse Power (AC):	HP	1/2 @ 240 V
Pilot Duty (60 Hz):		B300
Utilization Category:	IEC	AC15
VA Rating Make:	VA	3600
VA Rating Break:	VA	360
Minimum Recommended Load:	ma	100 @ 5 VDC or 0.5 W
TIMING		
Operate Time:	ms	20
Release Time:	ms	20

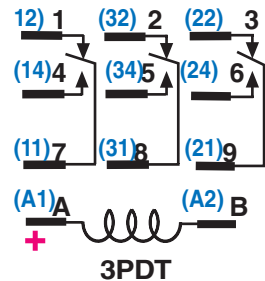
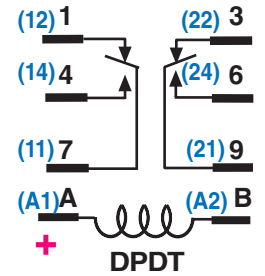
	UNITS	
DIELECTRIC STRENGTH		
Coil to Contacts:	V rms	2500
Across Open Contacts:	V rms	1500
Pole to Pole:	V rms	2500
Contacts to Frame:	V rms	
Insulation Resistance:	megohms minimum @VDC	1000 @ 500
VIBRATION RESISTANCE		
Functional:	g's	10-55 Hz, 6 g's,1mm double amplitude
SHOCK RESISTANCE		
Functional:	g's	10
TEMPERATURE		
Operating, AC Lower:	°C	-40
Operating, AC Upper:	°C	+50
Operating, DC Lower:	°C	-40
Operating, DC Upper:	°C	+65
Storage, Lower:	°C	-40
Storage, Upper:	°C	+105
LIFE EXPECTANCY		
Electrical @ Rated Load (AC1):	operations	100,000
Mechanical @ no Load :	operations	5,000,000
MISCELLANEOUS		
Operating Position:		Any
Insulation Material:	94V-0	Molded plastic
Enclosure Material:	94V-0	Polycarbonate
Cover Protection Category:	IP	40
Terminals:	Inch (mm)	0.187, 0.062 x 0.020 (4.74, 1.57 x 0.508)
Weight:	grams	88

788 PLUG-IN POWER RELAY



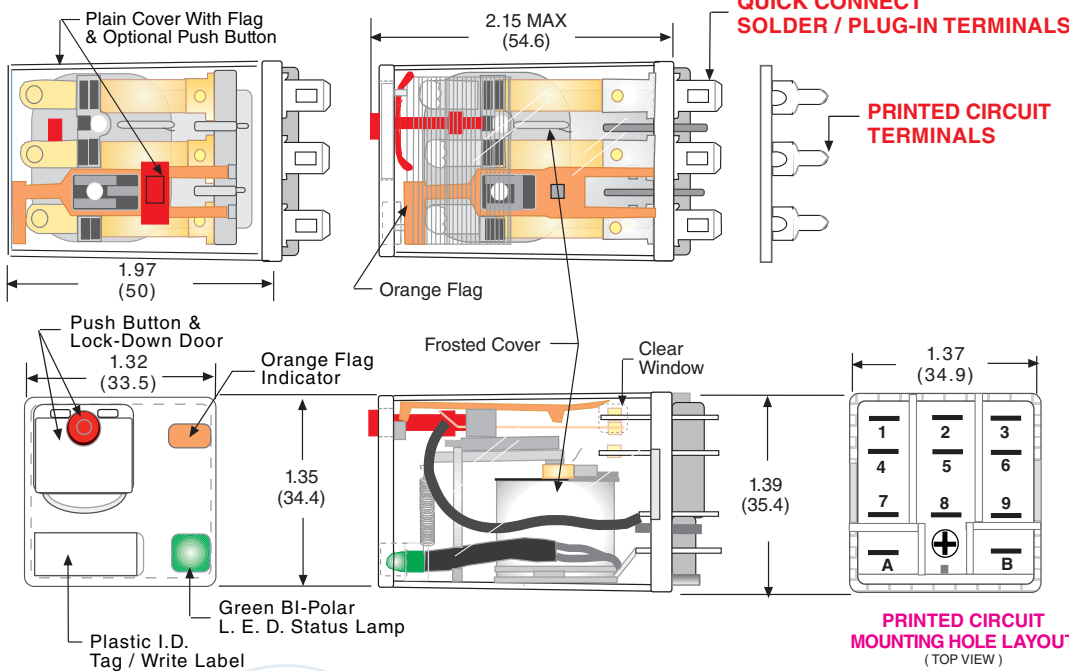
DPDT & 3PDT, 16 AMPS

WIRING DIAGRAM (VIEWED FROM PIN END)

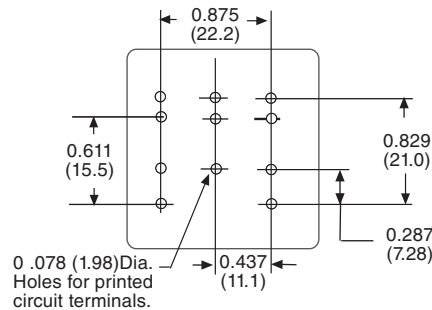


ALTERNATE NEMA
OR IEC () NUMBERS
VIEWED FROM
PIN SIDE

OUTLINE DIMENSIONS DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).



PRINTED CIRCUIT MOUNTING HOLE LAYOUT (TOP VIEW)



ORDERING CODE

788 **XBX** **M4L** **-120A**

CLASS:

CONTACT CONFIGURATION:
DPDT: **XBX**, 3PDT: **XCX**

OPTIONAL PLAIN COVER:
CODE **C**

TERMINAL STYLE:

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 / 240 **ADD "A" FOR AC COILS**
6, 12, 24, 48, 110 **ADD "D" FOR DC COILS**

Mating Sockets

70-463-1: SCREW/DIN

70-124-1: SOLDER

70-178-1, 70-178-2: PRINTED CIRCUIT

70-788EL/SL11-1, 70-124-2: QUICK CONNECT

See section 7

FULL FEATURED	CONTACT CONFIGU- RATION	COIL MEASURED @ 25 °C	
		NOMINAL INPUT VOLTAGE	NOMINAL RESISTANCE (OHMS)
AC OPERATED - SOLDER/PLUG-IN, 16 AMP			
788XBXM4L-24A	DPDT	24 VAC, 50/60Hz	72 Ω
788XBXM4L-120A	DPDT	110/120 VAC, 50/60Hz	1,700 Ω
788XBXM4L-220/240A	DPDT	220/240 VAC, 50/60Hz	7,200 Ω
DC OPERATED - SOLDER/PLUG-IN, 16 AMP			
788XBXM4L-12D	DPDT	12 VDC	120Ω
788XBXM4L-24D	DPDT	24 VDC	470 Ω
788XBXM4L-110D	DPDT	110/125 VDC	10,000 Ω
AC OPERATED - SOLDER/PLUG-IN, 16 AMP			
788XCXM4L-24A	3PDT	24 VAC, 50/60Hz	72 Ω
788XCXM4L-120A	3PDT	110/120 VAC, 50/60Hz	1,700 Ω
788XCXM4L-220/240A	3PDT	220/240 VAC, 50/60Hz	7,200 Ω
DC OPERATED - SOLDER/PLUG-IN, 16 AMP			
788XCXM4L-12D	3PDT	12 VDC	120 Ω
788XCXM4L-24D	3PDT	24 VDC	470 Ω
788XCXM4L-110D	3PDT	110/125 VDC	10,000 Ω

CADMIUM-FREE CONTACTS AVAILABLE,
CONTACT FACTORY FOR DETAILS

9/04