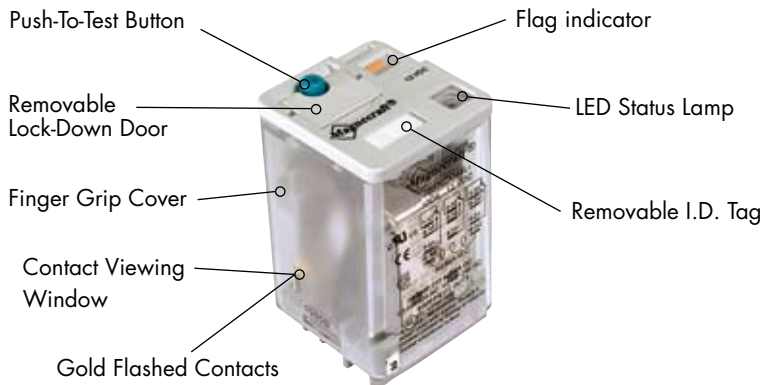
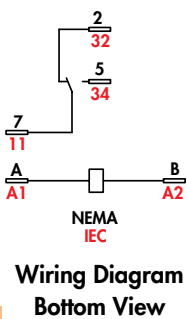


788 Power Relays/SPDT, 16 Amp Rating (DC & AC)

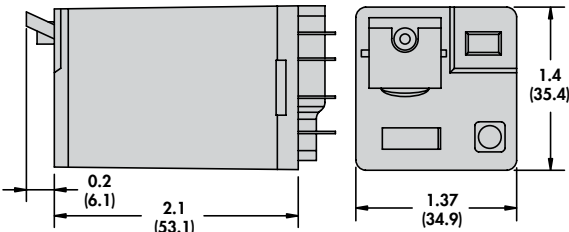


General Specifications		(UL 508)	788XAX	
Contact Characteristics		Units	Standard	
Number and type of Contacts			SPDT	
Contact materials			Silver Alloy	
Thermal (Carrying) Current		A	16	
Maximum Switching Voltage		V	300	
Switching Current @ Voltage		Resistive	16A @ 277V 50/60Hz	
		Resistive	16A @ 120V 50/60Hz	
		Resistive	16A @ 28V	
		HP	1/3 @ 120VAC	
		HP	1/2 @ 240 VAC	
Minimum Switching Requirement		Pilot Duty	B300	
		mA	100 @ 5VDC (.5W)	
Coil Characteristics				
Voltage Range		V	6....240, 50/60 Hz	
Operating Range		% of Nominal	6....125	
			85% to 110%	
			80% to 110%	
Average consumption		VA	3	
Drop-out voltage threshold		W	1.4	
			15%	
Performance Characteristics				
Electrical Life (UL508)		Operations @ Rated Current	(Resistive)	100,000
Mechanical Life		Unpowered		5,000,000
Operating time (response time)			ms	20
Dielectric strength		Between coil and contact	Vrms	1500
		Between poles	Vrms	1500
		Between contacts	Vrms	1500
Environment				
Product certifications		Standard version		UL, CSA, CE
Ambient air temperature around the device		Storage	°C	-40...+85
		Operation	°C	-40...+55
Vibration resistance		Operational	g-n	3, 10 - 55 Hz
Shock resistance			g-n	10
Degree of protection				IP 40
Weight			grams	88

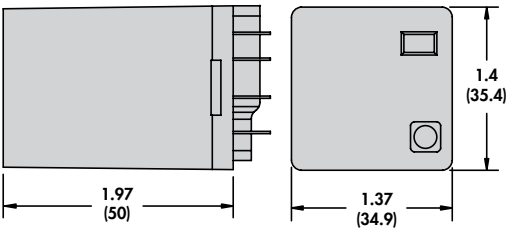
788XAX



Full Featured Dimensions



Plain Cover Dimensions





Full Featured



Plain Cover

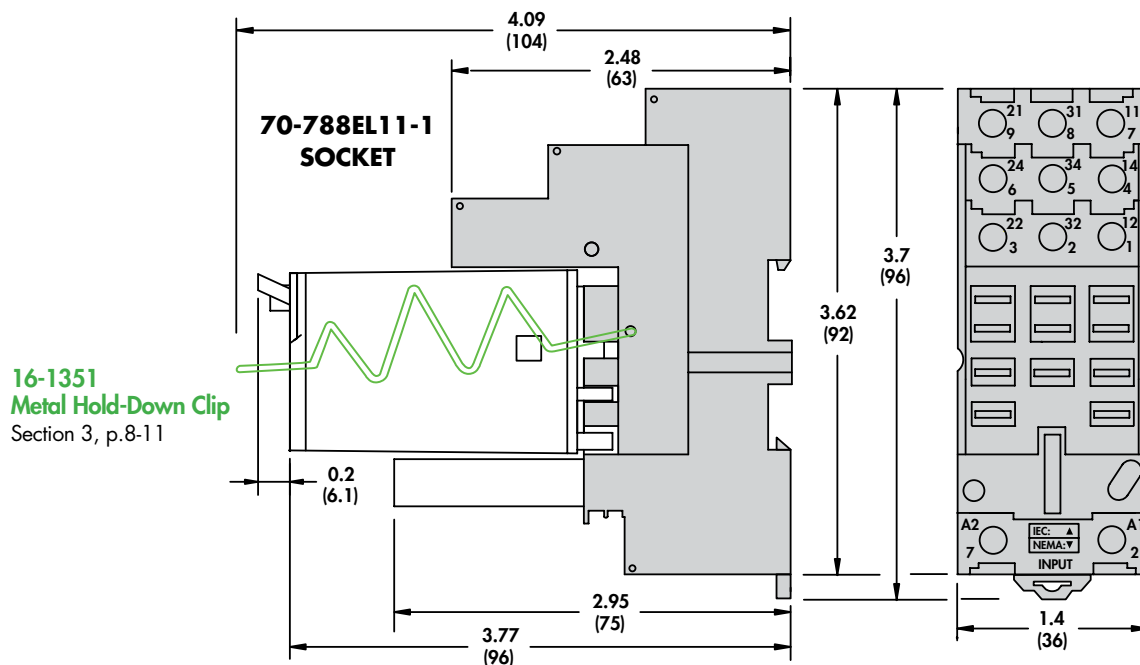
Standard Part Numbers

Nominal Voltage	Coil Resistance	SPDT Part Number (Full Feature) 16 Amp	SPDT Part Number (Plain Cover) 16 Amp
AC Operated			
6 VAC 50/60 Hz	4.2 Ohms	788XAXM4L-6A	788XAXC-6A
12 VAC 50/60 Hz	18 Ohms	788XAXM4L-12A	788XAXC-12A
24 VAC 50/60 Hz	72 Ohms	788XAXM4L-24A	788XAXC-24A
120 VAC 50/60 Hz	1700 Ohms	788XAXM4L-120A	788XAXC-120A
220-240 VAC 50/60 Hz	7200 Ohms	788XAXM4L-220/240A	788XAXC-220/240A
DC Operated			
6 VDC	32 Ohms	788XAXM4L-6D	788XAXC-6D
12 VDC	120 Ohms	788XAXM4L-12D	788XAXC-12D
24 VDC	470 Ohms	788XAXM4L-24D	788XAXC-24D
48 VDC	1800 Ohms	788XAXM4L-48D	788XAXC-48D
110-125 VDC	10000 Ohms	788XAXM4L-110/125D	788XAXC-110/125D

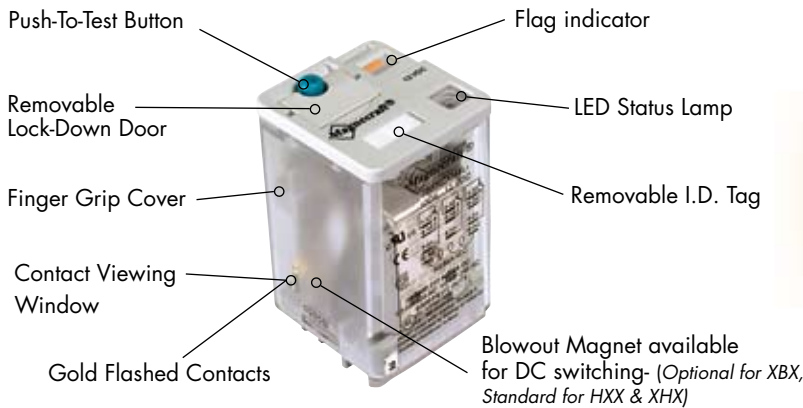
Custom Relay Part Number Builder

788	XAX		C	T	ML-	240A
Series	Contact Config.	Contact Code	Cover Options	Terminal Style	Feature Options	Coil Voltage
788	XAX = SPDT	16 Amp Silver Alloy = No Code	Full Feature = No Code Plain Cover = C	Plug In = No Code PC terminal = T	Side Push Button = M Locking Push Button = M4 Bi-Polar LED = L	VAC = 6 - 240A VDC = 6 - 125D

For other mating sockets, see Section 2: 70-463-1, 70-124-1, 70-124-2, 70-178-1, 70-178-2



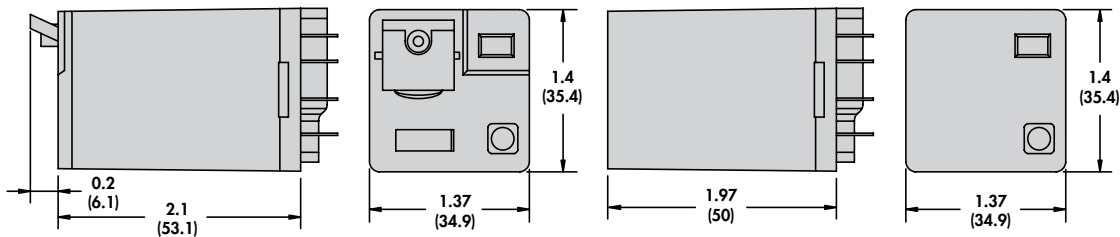
788 Power Relays/SPDT or DPDT, 16 Amp Rating (DC & AC)



General Specifications		(UL 508)		788XBX	788HXX69, 788XHX69
Contact Characteristics			Units	Standard	Standard
Number and type of Contacts				DPDT	SPST-NO-DM, SPDT-DM-DB
Contact materials				Silver Alloy	Silver Alloy
Thermal (Carrying) Current			A	16	16
Maximum Switching Voltage			V	300	300
Switching Current @ Voltage		~	Resistive	16A @ 277V 50/60Hz	16A @ 277V 50/60Hz
		~	Resistive	16A @ 120V 50/60Hz	16A @ 120V 50/60Hz
		~	Resistive	16A @ 28V	16A @ 28V
		~	HP	1/3 @ 120VAC	1/3 @ 120VAC
		~	HP	1/2 @ 240 VAC	1/2 @ 240 VAC
Current rating with magnetic blowout *(Optional for XBX, Standard for HXX & XHX)		~	Pilot Duty	B300	B300
		~	A	3 @ 150VDC*	10 @ 150VDC*
Minimum Switching Requirement			mA	100 @ 5VDC (.5W)	100 @ 5VDC (.5W)
Coil Characteristics					
Voltage Range		~	V	6....240, 50/60 Hz	6....240, 50/60 Hz
		~	V	6....125	6....125
Operating Range		~	% of Nominal	85% to 110%	85% to 110%
		~		80% to 110%	80% to 110%
Average consumption		~	VA	3	3
		~	W	1.4	1.4
Drop-out voltage threshold		~		15%	15%
		~		10%	10%
Performance Characteristics					
Electrical Life (UL508)	Operations @ Rated Current	(Resistive)		100,000	100,000
Mechanical Life	Unpowered			5,000,000	5,000,000
Operating time (response time)			ms	20	20
			Vrms	1500	1500
Dielectric strength		~	Vrms	1500	1500
		~	Vrms	1500	1500
		~	Vrms	1500	1500
Environment					
Product certifications	Standard version			UL, CSA, CE	UL, CSA, CE
Ambient air temperature around the device			°C	-40...+85	-40...+85
			°C	-40...+55	-40...+55
Vibration resistance	Operational		g-n	3, 10 - 55 Hz	3, 10 - 55 Hz
Shock resistance			g-n	10	10
Degree of protection				IP 40	IP 40
Weight			grams	88	88

Full Featured Dimensions

Plain Cover Dimensions

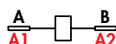




Plain Cover

BOLD-FACED PART NUMBERS ARE NORMALLY STOCKED

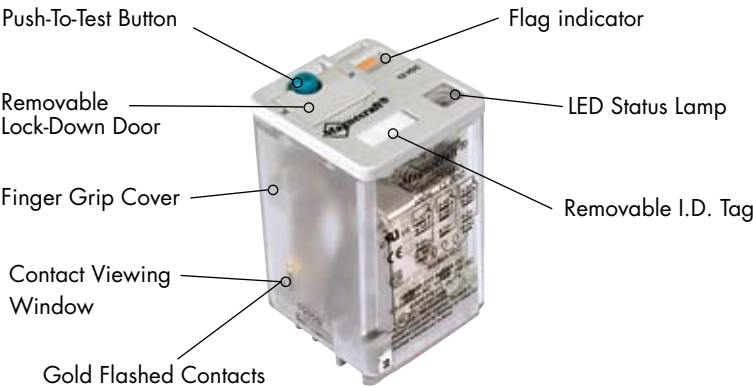
Custom Relay Part Number Builder

788XBX

**70-788EL11-1
SOCKET**

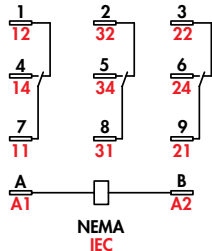
Technical drawing showing the side and top views of the 70-788EL11-1 socket. The side view includes dimensions: 4.09 (104) for the total width, 2.48 (63) for the top section width, 3.7 (96) for the total height, 3.62 (92) for the main body height, 0.2 (6.1) for the front flange thickness, 2.95 (75) for the base width, and 3.77 (96) for the total base length. A green wavy line indicates the fold-down clip mechanism. The top view shows a 3x3 grid of pins numbered 1 through 9, with pin 1 at the bottom right. The bottom view shows the base with dimensions 1.4 (36) for the base width and 3.77 (96) for the total base length. The base also features a label 'IEC: NEMA: INPUT' and a pin labeled 'A2 7'.

788 Power Relays/3PDT, 16 Amp Rating (DC & AC)



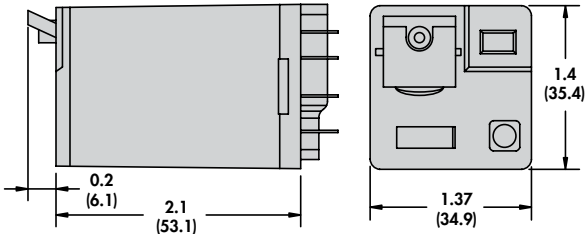
General Specifications (UL 508)		788XCX	
Contact Characteristics		Units	Standard
Number and type of Contacts			3PDT
Contact materials			Silver Alloy
Thermal (Carrying) Current		A	16
Maximum Switching Voltage		V	300
Switching Current @ Voltage		Resistive	16A @ 277V 50/60Hz
		Resistive	16A @ 120V 50/60Hz
		Resistive	16A @ 28V
		HP	1/3 @ 120VAC
		HP	1/2 @ 240 VAC
Minimum Switching Requirement		Pilot Duty	B300
		mA	100 @ 5VDC (.5W)
Coil Characteristics			
Voltage Range		V	6....240, 50/60 Hz
Operating Range		V	6....125
		% of Nominal	85% to 110%
Average consumption		VA	3
		W	1.4
Drop-out voltage threshold			10%
			10%
Performance Characteristics			
Electrical Life (UL508)		(Resistive)	100,000
Mechanical Life		Unpowered	5,000,000
Operating time (response time)		ms	20
Dielectric strength		Between coil and contact	1500
		Between poles	1500
		Between contacts	1500
Environment			
Product certifications		Standard version	UL, CSA, CE
Ambient air temperature around the device		Storage	-40...+85
		Operation	-40...+55
Vibration resistance		Operational	g-n
Shock resistance			10
Degree of protection			IP 40
Weight		grams	88

788XCX

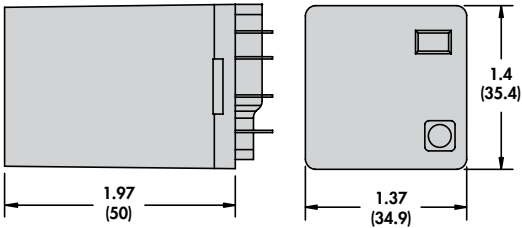


Wiring Diagram
Bottom View

Full Featured Dimensions



Plain Cover Dimensions





Full Featured



Plain Cover

Standard Part Numbers

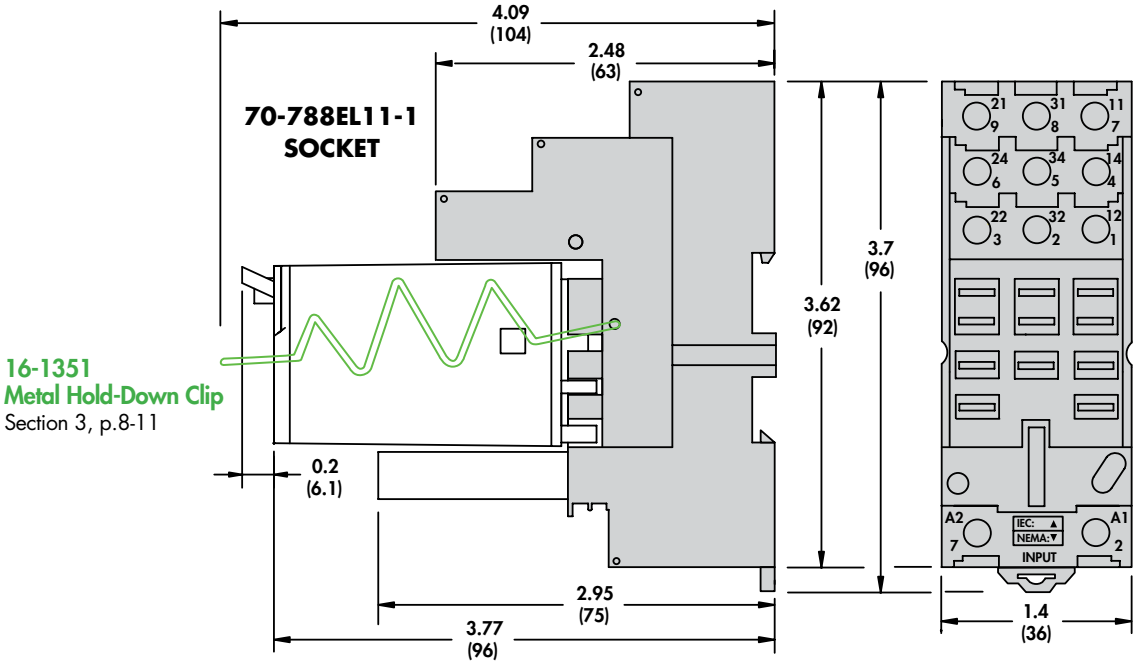
BOLD-FACED PART NUMBERS ARE NORMALLY STOCKED

Nominal Voltage	Coil Resistance	3PDT Part Number (Full Feature) 16 Amp	3PDT Part Number (Plain Cover) 16 Amp
AC Operated			
6 VAC 50/60 Hz	4.2 Ohms	788XCXM4L-6A	788XCXC-6A
12 VAC 50/60 Hz	18 Ohms	788XCXM4L-12A	788XCXC-12A
24 VAC 50/60 Hz	72 Ohms	788XCXM4L-24A	788XCXC-24A
120 VAC 50/60 Hz	1700 Ohms	788XCXM4L-120A	788XCXC-120A
220-240 VAC 50/60 Hz	7200 Ohms	788XCXM4L-220/240A	788XCXC-220/240A
DC Operated			
6 VDC	32 Ohms	788XCXM4L-6D	788XCXC-6D
12 VDC	120 Ohms	788XCXM4L-12D	788XCXC-12D
24 VDC	470 Ohms	788XCXM4L-24D	788XCXC-24D
48 VDC	1800 Ohms	788XCXM4L-48D	788XCXC-48D
110-125 VDC	10000 Ohms	788XCXM4L-110/125D	788XCXC-110/125D

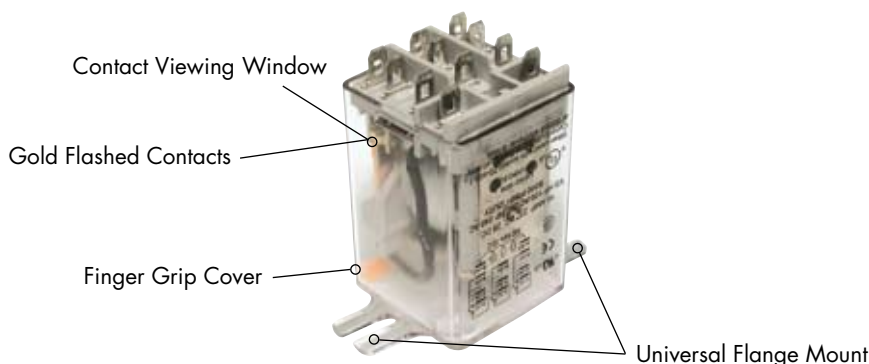
Custom Relay Part Number Builder

788	XCX		C	T	ML-	240A
Series	Contact Config.	Contact Code	Cover Options	Terminal Style	Feature Options	Coil Voltage
788	XCX = 3PDT	16 Amp Silver Alloy = No Code	Full Feature = No Code Plain Cover = C	Plug In = No Code PC terminal = T	Side Push Button = M Locking Push Button = M4 Bi-Polar LED = L	VAC = 6 - 240A VDC = 6 - 125D

For other mating sockets, see Section 2: 70-463-1, 70-124-1, 70-124-2, 70-178-1, 70-178-2



788 Power Relays – Mounting Solutions/SPDT, DPDT, 3PDT, 16 Amp Rating (DC & AC)



General Specifications

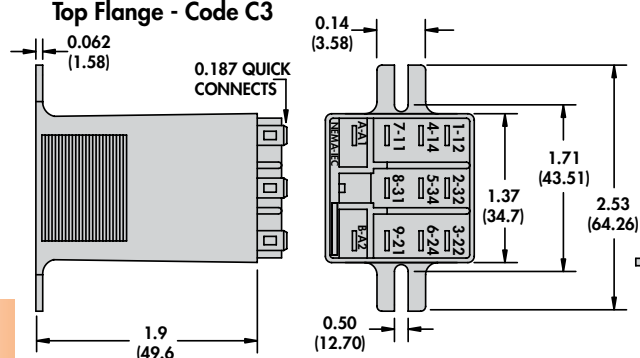
(UL 508)

788XAX

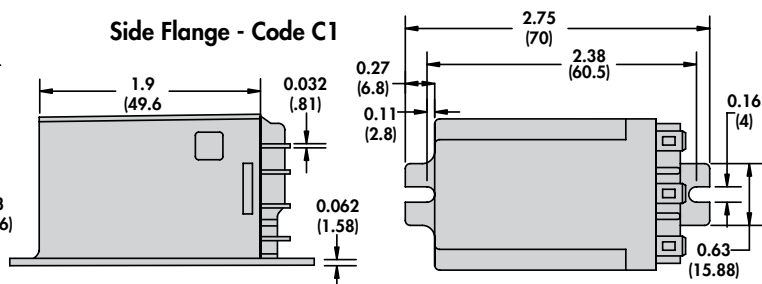
788XBX/XCX

Contact Characteristics		Units	Standard	Standard
Number and type of Contacts			SPDT	DPDT/3PDT
Contact materials			Silver Alloy	Silver Alloy
Thermal (Carrying) Current		A	16	16
Maximum Switching Voltage		V	300	300
Switching Current @ Voltage	~	Resistive	16A @ 277V 50/60Hz	16A @ 277V 50/60Hz
	~	Resistive	16A @ 120V 50/60Hz	16A @ 120V 50/60Hz
	~	Resistive	16A @ 28V	16A @ 28V
	~	HP	1/3 @ 120VAC	1/3 @ 120VAC
	~	HP	1/2 @ 240 VAC	1/2 @ 240 VAC
Current rating with magnetic blowout - Code 69	~	Pilot Duty	B300	B300
	~	A		3 @ 150VDC
Minimum Switching Requirement		mA	100 @ 5VDC (.5W)	100 @ 5VDC (.5W)
Coil Characteristics				
Voltage Range	~	V	6....240, 50/60 Hz	6....240, 50/60 Hz
	~	V	6....125	6....125
Operating Range	% of Nominal	~	85% to 110%	85% to 110%
		~	80% to 110%	80% to 110%
Average consumption	~	VA	3	2.0 - 3.0
	~	W	1.4	1.4
Drop-out voltage threshold	~		15%	10%
	~		10%	10%
Performance Characteristics				
Electrical Life (UL508)	Operations @ Rated Current	(Resistive)	100,000	100,000
Mechanical Life	Unpowered		5,000,000	5,000,000
Operating time (response time)		ms	20	20
Dielectric strength	Between coil and contact	~	1500	1500
	Between poles	~	1500	1500
	Between contacts	~	1500	1500
Environment				
Product certifications	Standard version		UL, CSA, CE	UL, CSA, CE
Ambient air temperature around the device	Storage	°C	-40...+85	-40...+85
	Operation	°C	-40...+55	-40...+55
Vibration resistance	Operational	g-n	3, 10 - 55 Hz	3, 10 - 55 Hz
Shock resistance		g-n	10	10
Degree of protection			IP 40	IP 40
Weight		grams	88	88

Top Flange - Code C3



Side Flange - Code C1





Top Flange



Side Flange



DIN Mount

BOLD-FACED PART NUMBERS ARE NORMALLY STOCKED

Standard Part Numbers

788XAX

788XBX

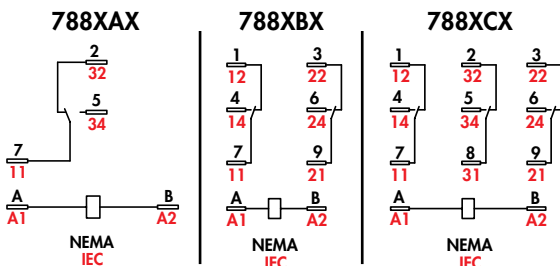
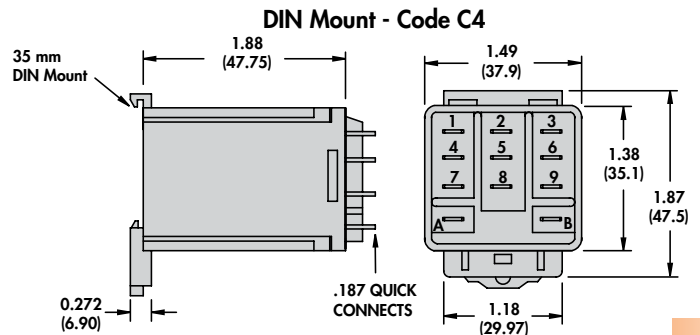
Nominal Voltage	Coil Resistance	SPDT Part Number (Top Flange) 16 Amp	SPDT Part Number (Side Flange) 16 Amp	DPDT Part Number (Top Flange) 16 Amp	DPDT Part Number (Side Flange) 16 Amp
AC Operated					
6 VAC 50/60 Hz	4.2 Ohms	788XAXC3-6A	788XAXC1-6A	788XBX3-6A	788XBX1-6A
12 VAC 50/60 Hz	18 Ohms	788XAXC3-12A	788XAXC1-12A	788XBX3-12A	788XBX1-12A
24 VAC 50/60 Hz	72 Ohms	788XAXC3-24A	788XAXC1-24A	788XBX3-24A	788XBX1-24A
120 VAC 50/60 Hz	1700 Ohms	788XAXC3-120A	788XAXC1-120A	788XBX3-120A	788XBX1-120A
220-240 VAC 50/60 Hz	7200 Ohms	788XAXC3-220/240A	788XAXC1-220/240A	788XBX3-220/240A	788XBX1-220/240A
DC Operated					
6 VDC	32 Ohms	788XAXC3-6D	788XAXC1-6D	788XBX3-6D	788XBX1-6D
12 VDC	120 Ohms	788XAXC3-12D	788XAXC1-12D	788XBX3-12D	788XBX1-12D
24 VDC	470 Ohms	788XAXC3-24D	788XAXC1-24D	788XBX3-24D	788XBX1-24D
48 VDC	1800 Ohms	788XAXC3-48D	788XAXC1-48D	788XBX3-48D	788XBX1-48D
110-125 VDC	10000 Ohms	788XAXC3-110/125D	788XAXC1-110/125D	788XBX3-110/125D	788XBX1-110/125D

788XCX

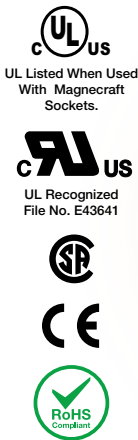
Nominal Voltage	Coil Resistance	3PDT Part Number (Top Flange) 16 Amp	3PDT Part Number (Side Flange) 16 Amp
AC Operated			
6 VAC 50/60 Hz	4.2 Ohms	788XCXC3-6A	788XCXC1-6A
12 VAC 50/60 Hz	18 Ohms	788XCXC3-12A	788XCXC1-12A
24 VAC 50/60 Hz	72 Ohms	788XCXC3-24A	788XCXC1-24A
120 VAC 50/60 Hz	1700 Ohms	788XCXC3-120A	788XCXC1-120A
220-240 VAC 50/60 Hz	7200 Ohms	788XCXC3-220/240A	788XCXC1-220/240A
DC Operated			
6 VDC	32 Ohms	788XCXC3-6D	788XCXC1-6D
12 VDC	120 Ohms	788XCXC3-12D	788XCXC1-12D
24 VDC	470 Ohms	788XCXC3-24D	788XCXC1-24D
48 VDC	1800 Ohms	788XCXC3-48D	788XCXC1-48D
110-125 VDC	10000 Ohms	788XCXC3-110/125D	788XCXC1-110/125D

Custom Relay Part Number Builder

788	XBX	C3	ML-	240A	
Series	Contact Config.	Contact Code	Cover Options	Feature Options	Coil Voltage
788	XAX = SPDT	16 Amp Silver Alloy = No Code	Side Flange = C1	Side Push Button = M	VAC = 6 - 240A
	XBX = DPDT		Top Flange = C3	Bi-Polar LED = L	VDC = 6 - 125D
	XCX = 3PDT		DIN Mount = C4		

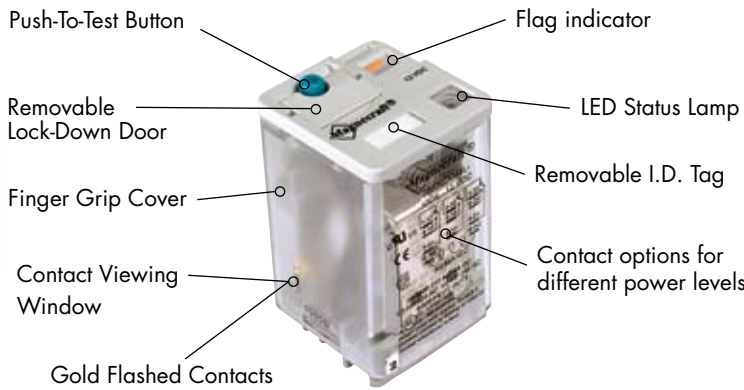

Wiring Diagrams
Bottom View


788V Power Relays/DPST and 3PST, 16 Amp Rating (DC and AC), 3mm Spacing



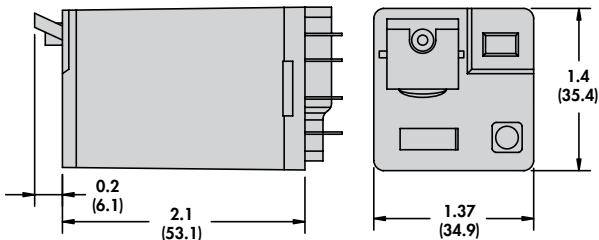
Benefits of the 3mm Contact Gap Design:

- High Dielectric Strength Across Contacts.
- Improved Arc Quenching When Breaking High Current Loads.
- Meets European Spacing Requirements of 8mm Across Surfaces.

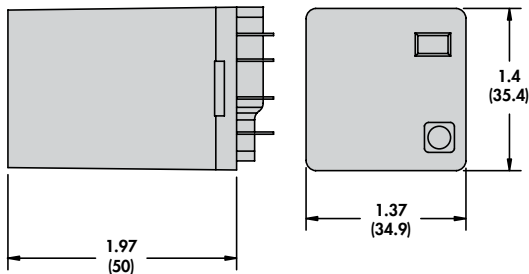


General Specifications		(UL 508)	788VBXX, CXX	
Contact Characteristics		Units	Standard	
Number and type of Contacts			DPST, 3PST (N.O.)	
Contact materials			Silver Alloy	
Thermal (Carrying) Current		A	16	
Maximum Switching Voltage		V	300	
Switching Current @ Voltage		~	Resistive	
		~	Resistive	
		~	Resistive	
		~	HP	
		~	HP	
Minimum Switching Requirement		~	Pilot Duty	
		~	mA	
Coil Characteristics				
Voltage Range		~	V	
Operating Range		~	V	
		~	% of Nominal	
Average consumption		~	VA	
Drop-out voltage threshold		~	W	
		~		
Performance Characteristics				
Electrical Life (UL508)		Operations @ Rated Current	(Resistive)	100,000
Mechanical Life		Unpowered		5,000,000
Operating time (response time)			ms	20
Dielectric strength		Between coil and contact	~	Vrms
		Between poles	~	Vrms
		Between contacts	~	Vrms
Environment				
Product certifications		Standard version		UL, CSA, CE
Ambient air temperature around the device		Storage	°C	-40...+85
		Operation	°C	-40...+55
Vibration resistance		Operational	g-n	3, 10 - 55 Hz
Shock resistance			g-n	10
Degree of protection				IP 40
Weight			grams	88

Full Featured Dimensions



Plain Cover Dimensions





Full Featured



Plain Cover

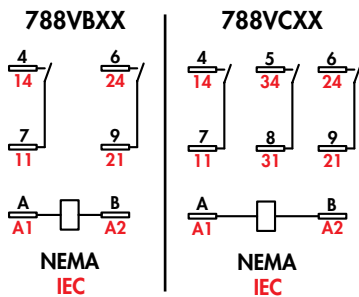
Standard Part Numbers

Nominal Voltage AC Operated	Coil Resistance	DPST Part Number (Full Feature)	DPST Part Number (Plain Cover)	DPST Superceding (Plain Cover)
6 VAC 50/60 Hz	4.2 Ohms	788VBXXM4L-6A	788VBXXC-6A	388VBXXC-6A
12 VAC 50/60 Hz	18 Ohms	788VBXXM4L-12A	788VBXXC-12A	388VBXXC-12A
24 VAC 50/60 Hz	72 Ohms	788VBXXM4L-24A	788VBXXC-24A	388VBXXC-24A
120 VAC 50/60 Hz	1700 Ohms	788VBXXM4L-120A	788VBXXC-120A	388VBXXC-120A
220-240 VAC 50/60 Hz	7200 Ohms	788VBXXM4L-220/240A	788VBXXC-220/240A	388VBXXC-220/240A
DC Operated				
6 VDC	32 Ohms	788VBXXM4L-6D	788VBXXC-6D	388VBXXC-6D
12 VDC	120 Ohms	788VBXXM4L-12D	788VBXXC-12D	388VBXXC-12D
24 VDC	470 Ohms	788VBXXM4L-24D	788VBXXC-24D	388VBXXC-24D
48 VDC	1800 Ohms	788VBXXM4L-48D	788VBXXC-48D	388VBXXC-48D
110-125VDC	10000 Ohms	788VBXXM4L-110/125D	788VBXXC-110/125D	388VBXXC-110/125D

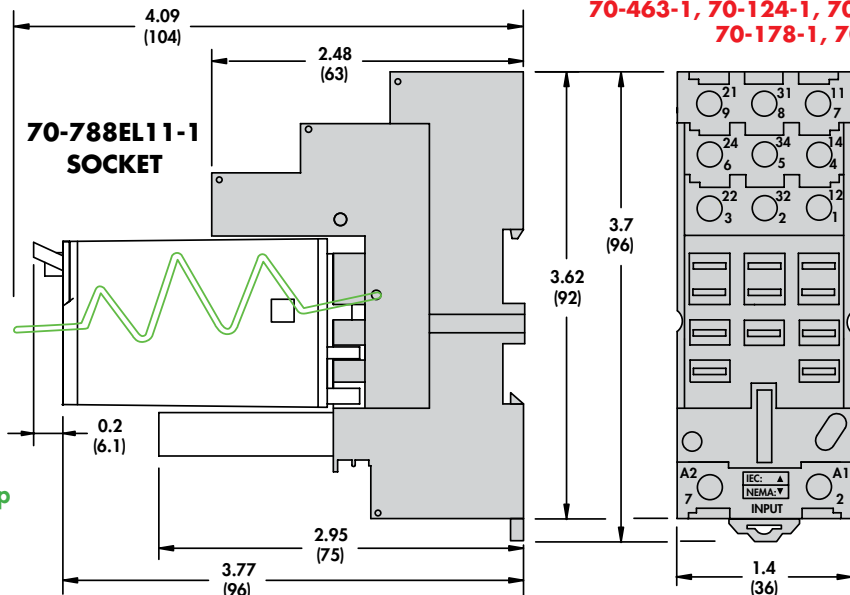
Nominal Voltage AC Operated	Coil Resistance	3PST Part Number (Full Feature)	3PST Part Number (Plain Cover)	3PST Superceding (Plain Cover)
6 VAC 50/60 Hz	4.2 Ohms	788VCXXM4L-6A	788VCXXC-6A	388VCXXC-6A
12 VAC 50/60 Hz	18 Ohms	788VCXXM4L-12A	788VCXXC-12A	388VCXXC-12A
24 VAC 50/60 Hz	72 Ohms	788VCXXM4L-24A	788VCXXC-24A	388VCXXC-24A
120 VAC 50/60 Hz	1700 Ohms	788VCXXM4L-120A	788VCXXC-120A	388VCXXC-120A
220-240 VAC 50/60 Hz	7200 Ohms	788VCXXM4L-220/240A	788VCXXC-220/240A	388VCXXC-220/240A
DC Operated				
6 VDC	32 Ohms	788VCXXM4L-6D	788VCXXC-6D	388VCXXC-6D
12 VDC	120 Ohms	788VCXXM4L-12D	788VCXXC-12D	388VCXXC-12D
24 VDC	470 Ohms	788VCXXM4L-24D	788VCXXC-24D	388VCXXC-24D
48 VDC	1800 Ohms	788VCXXM4L-48D	788VCXXC-48D	388VCXXC-48D
110-125VDC	10000 Ohms	788VCXXM4L-110/125D	788VCXXC-110/125D	388VCXXC-110/125D

Custom Relay Part Number Builder

788V	BXX	C	T	ML-	240A
Series	Contact Configuration	Cover Options	Terminal Style	Feature Options	Coil Voltage
788V	BXX = DPST-NO	Full Feature = No Code	Plug In = No Code	Side Push Button = M	VAC = 6 - 240A
	CXX = 3PST-NO	Plain Cover = C	PC terminal = T	Locking Push Button = M4	VDC = 6 - 125D
		Side Flange = C1		Bi-Polar LED = L	
		Top Flange = C3			


Relay Wiring Diagram
Bottom View

16-1351
Metal Hold-Down Clip
Section 3, p.8-11



Other mating sockets see Section 2:
70-463-1, 70-124-1, 70-124-2,
70-178-1, 70-178-2

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