

Description

Legacy General Purpose Relays

792 Control Series

DPDT 12 A; 4PDT 6 A and 3 A



UL Listed when used with corresponding sockets



792 Clear Cover



792 Full-Feature Cover

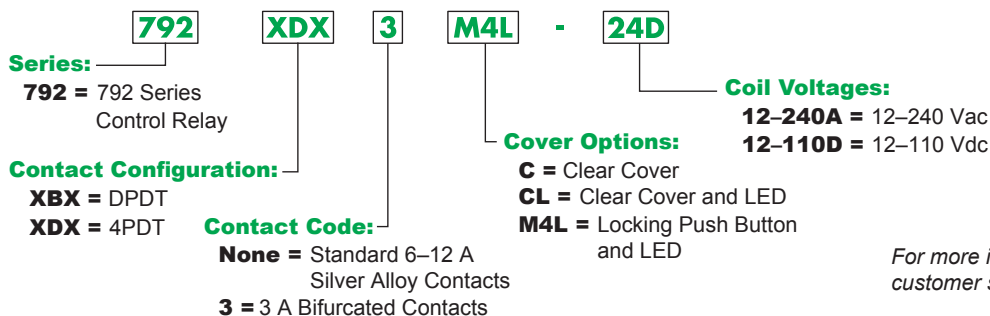
Description

The 792 plug-in control relays offer clear or full-feature covers with multiple mounting options and accessories. The 4PDT models save valuable space while adding increased functionality.

Feature	Benefit
12 A / 6 A / 3 A switching current	Ideal choice for various automation panels and controls
Clear or full-feature cover options	Full-feature covers include an LED indicator and a locking test button to facilitate maintenance and speed up commissioning
DPDT and 4PDT contact options	Simultaneous control of 2 or 4 separate circuits
Socket-mounting option	Simplified installation and maintenance; use of protection modules, hold-down clips, and other accessories
Gold-flashed contacts	Reduced contact oxidation and increased shelf life
Mechanical flag indicator (standard)	Display of the status of an unpowered relay during testing or operation

Contact Rating	Contact Configuration	Nominal Coil Voltage	Coil Resistance (Ω)	Contacts	Part Number		
					Clear Cover	Clear Cover with LED	Full-Feature Cover
3 A	4PDT	12 Vac	44	Low-Level Bifurcated	792XDX3C-12A	792XDX3CL-12A	792XDX3M4L-12A
		24 Vac	177		792XDX3C-24A	792XDX3CL-24A	792XDX3M4L-24A
		48 Vac	708		792XDX3C-48A	792XDX3CL-48A	792XDX3M4L-48A
		120 Vac	3630		792XDX3C-120A	792XDX3CL-120A	792XDX3M4L-120A
		240 Vac	17720		792XDX3C-240A	792XDX3CL-240A	792XDX3M4L-240A
		12 Vdc	160		792XDX3C-12D	792XDX3CL-12D	792XDX3M4L-12D
		24 Vdc	640		792XDX3C-24D	792XDX3CL-24D	792XDX3M4L-24D
		48 Vdc	2560		792XDX3C-48D	792XDX3CL-48D	792XDX3M4L-48D
		110 Vdc	13440		792XDX3C-110D	792XDX3CL-110D	792XDX3M4L-110D
		12 A	DPDT		12 Vac	44	Standard
24 Vac	177			792XBXC-24A	—	792XBXM4L-24A	
48 Vac	708			792XBXC-48A	—	792XBXM4L-48A	
120 Vac	3630			792XBXC-120A	—	792XBXM4L-120A	
240 Vac	17720			792XBXC-240A	—	792XBXM4L-240A	
12 Vdc	160			792XBXC-12D	—	792XBXM4L-12D	
24 Vdc	640			792XBXC-24D	—	792XBXM4L-24D	
48 Vdc	2560			792XBXC-48D	—	792XBXM4L-48D	
110 Vdc	13440			792XBXC-110D	—	792XBXM4L-110D	
6 A	4PDT			12 Vac	44	Standard	
		24 Vac	177	792XDXC-24A	792XDXCCL-24A		792XDXM4L-24A
		48 Vac	708	792XDXC-48A	792XDXCCL-48A		792XDXM4L-48A
		120 Vac	3630	792XDXC-120A	792XDXCCL-120A		792XDXM4L-120A
		240 Vac	17720	792XDXC-240A	792XDXCCL-240A		792XDXM4L-240A
		12 Vdc	160	792XDXC-12D	792XDXCCL-12D		792XDXM4L-12D
		24 Vdc	640	792XDXC-24D	792XDXCCL-24D		792XDXM4L-24D
		48 Vdc	2560	792XDXC-48D	792XDXCCL-48D		792XDXM4L-48D
		110 Vdc	13440	792XDXC-110D	792XDXCCL-110D		792XDXM4L-110D

Part Number Explanation



For more information, contact customer service (1-847-441-2540).

Specifications

Part Number		792XBX
Contact Characteristics		
Terminal Style	Blade	
Contact Material	Silver Alloy	
Contact Configuration	DPDT	
Carrying Current	12 A	
Maximum Switching Voltage	IEC: 250 Vac / 28 Vdc UL/CSA: 300 Vac / 30 Vdc	
Rated Switching Current (Conforming to IEC AC-1 and DC-1)	N.O.: 12 A at 250 Vac, N.C.: 6 A at 250 Vac N.O.: 12 A at 28 Vdc, N.C.: 6 A at 28 Vdc	
Rated Switching Current (Conforming to UL)	Resistive	12 A at 277 Vac, 100 k cycles 12 A at 120 Vac, 200 k cycles 12 A at 30 Vdc, 100 k cycles
	Motor	1/2 hp at 120 Vac, 6 k cycles 1 hp at 277 Vac, 6 k cycles
	B300 Pilot Duty	6 k cycles
Minimum Switching Requirement	10 mA at 17 Vdc	
Coil Characteristics		
Maximum Operating Voltage	110% (AC/DC)	
Maximum Pickup Voltage	80% (AC/DC)	
Drop-out Voltage Threshold	15% (AC); 10% (DC)	
Average Consumption	0.9–1.2 VA (AC); 0.8–1.1 W (DC)	
General Characteristics		
Electrical Life at Rated Load	200,000 operations (where stated)	
Mechanical Life (Unpowered)	10,000,000 operations	
Operating Time	25 ms max. at 80% rated coil voltage 20 ms max. at 100% rated coil voltage	
Release Time	20 ms max. (DC) 35 ms max. (AC)	
Impulse Withstand Voltage	4 kV (1.2 / 50 μs)	
Dielectric Strength	Between Coil and Contact (AC)	2000 V (rms)
	Between Poles (AC)	2000 V (rms)
	Between Contacts (AC)	1300 V (rms)
Ambient Air Temperature Around the Device	Storage	–40 to +85 °C (–40 to +185 °F)
	Operation	–40 to +55 °C (–40 to +131 °F)
Vibration Resistance	In Operation	3 gn at 35–150 Hz
	Not Operating	5 gn at 35–150 Hz
Shock Resistance	In Operation	10 gn
	Not Operating	30 gn
Degree of Protection (Housing Only)	IP40	
Weight	37 g (1.31 oz)	
Agency Approvals	UL with socket, UR (E164862), CE, CSA (LR44087), RoHS	

Note: Actual product performance may vary depending on the application and environmental conditions.

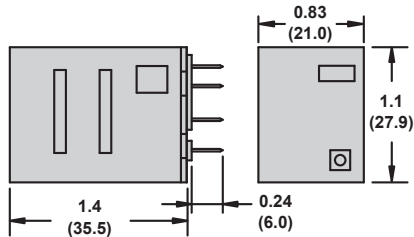
Specifications (continued)

Part Number		792XDX	792XDX3
Contact Characteristics			
Terminal Style		Blade	Blade
Contact Material		Silver Alloy	Bifurcated
Contact Configuration		4PDT	4PDT
Carrying Current		6 A	3 A
Load Type		Standard	Low Level
Maximum Switching Voltage		300 V	300 V
Rated Switching Current (Conforming to IEC AC1 and DC1)	250 Vac	N.O.: 6 A; N.C.: 3 A	N.O.: 2 A; N.C.: 1 A
	28 Vdc	N.O.: 6 A; N.C.: 3 A	N.O.: 2 A; N.C.: 1 A
Switching Current (Conforming to UL)	General Purpose	—	3 A at 240–277 Vac 3 A at 120 Vac
	Resistive	6 A at 277 Vac, 200 k cycles 8 A at 120 Vac, 200 k cycles 8 A at 30 Vdc, 200 k cycles	3 A at 30 Vdc
	Motor	1/3 hp at 120 Vac, 6 k cycles 1/2 hp at 277 Vac, 6 k cycles	1/16 hp (2.8 A FLA) at 120 Vac
	Pilot Duty	B300, 6 k cycles	5 A make, 0.5 A break, 3 A continuous at 120 Vac
Minimum Switching Requirement		10 mA at 17 Vdc	3 mA at 5 Vdc
Coil Characteristics			
Maximum Operating Voltage		110% (AC/DC)	
Maximum Pickup Voltage		80% (AC/DC)	
Drop-out Voltage Threshold		15% (AC); 10% (DC)	
Average Consumption		0.9–1.2 VA (AC); 0.8–1.1 W (DC)	
General Characteristics			
Electrical Life at Rated Load		200,000 operations (where stated)	100,000 operations (general purpose load)
Mechanical Life (Unpowered)		10,000,000 operations	
Operating Time		25 ms max. at 80% rated coil voltage 20 ms max. at 100% rated coil voltage	
Release Time		DC: 20 ms max. AC: 35 ms max.	
Impulse Withstand Voltage		2.5 kV (1.2 / 50 µs)	
Dielectric Strength	Between Coil and Contact (AC)	2000 V (rms)	
	Between Poles (AC)	1600 V (rms)	
	Between Contacts (AC)	1300 V (rms)	
Ambient Air Temperature Around the Device	Storage	–40 to +85 °C (–40 to +185 °F)	
	Operation	–40 to +55 °C (–40 to +131 °F)	
Vibration Resistance	In Operation	3 gn at 35–150 Hz	
	Not Operating	5 gn at 35–150 Hz	
Shock Resistance	In Operation	10 gn	
	Not Operating	30 gn	
Degree of Protection (Housing Only)		IP40	
Weight		37 g (1.31 oz)	
Agency Approvals		UL with socket, UR (E164862), CE, CSA (LR44087), RoHS	

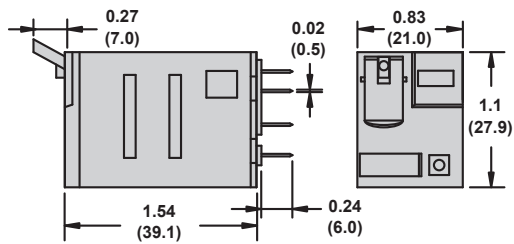
Note: Actual product performance may vary depending on the application and environmental conditions.

Dimensions, in. (mm)

Clear Cover Dimension

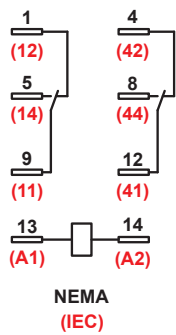


Full-Feature Cover Dimension

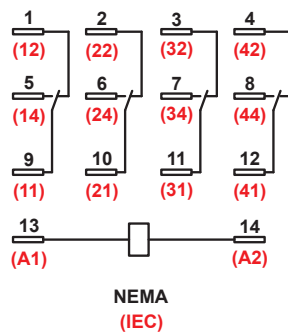


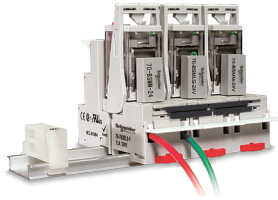
Wiring Diagrams

DPDT



4PDT

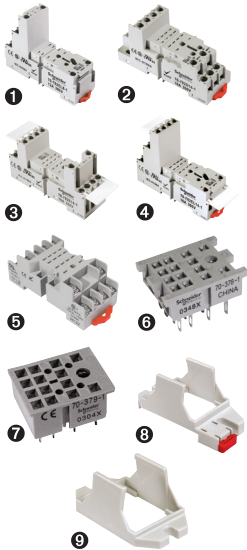




Description

Optional sockets offer customizable solutions including protection modules, hold-down clips, and ID tags. Sockets are finger-safe according to IP20, and compatible with DIN rail or panel mounting.

Relay Accessories



Description	Function	For Use with Relays	Pkg. Min.	Standard Part Number
Socket 1	DIN or panel mounting with elevator terminals	792XBX	10	70-782EL8-1
Socket 2	DIN or panel mounting with screw terminals and clamping plates	792XBX / 792XDX	10	70-782D14-1
Socket 3	DIN or panel mounting with rising elevator box terminals		10	70-782E14-1
Socket 4	DIN or panel mounting with elevator terminals		10	70-782EL14-1
Socket 5	DIN or panel mounting with screw terminals and clamping plates		10	70-461-1
Socket 6	Solder terminals for chassis mounting	792XDX	10	70-378-1
Socket 7	Printed circuit terminals for PCB mounting		10	70-379-1
Adapter 8	Direct DIN rail mounting	792XBX / 792XDX	10	16-782C
Adapter 9	Direct panel mounting		10	16-782C1

Socket Accessories



Description	Function	For Use with Sockets	Coil Voltage	Pkg. Min.	Standard Part Number
Metal Spring Clip 1	Securing the relay in the socket	70-782D14-1, 70-782E14-1, 70-782EL14-1, 70-782EL8-1	—	10	16-782SC
Plastic Hold-Down Clip 2	Securing the relay in the socket or ejecting the relay from the socket		—	10	16-782PC-1
Write-on Tag 3	Small write-on tag		—	10	16-782FT-1
Write-on Tag 4	Write-on tag for the 16-782PC-1 hold-down clip	—	—	10	16-700ST-1
Extruded Aluminum DIN Rail, 1 m (39.37 in.) 5	Quick installation and removal of sockets	70-782D14-1, 70-782E14-1, 70-782EL8-1, 70-782EL14-1	—	10	16-700DIN
DIN Rail End Clip 6	Holding the sockets firmly in place on a DIN rail	—	—	10	16-DCLIP-1
Insulated Coil Bus Jumper System 7	Wireless socket connection	70-782EL8-1, 70-782EL14-1	—	10	16-782CBJ-1
Small Socket Modules					
Protection Diode	Protecting the external drive circuitry from inductive voltages	70-782D14-1, 70-782E14-1, 70-782EL14-1, 70-782EL8-1	6–250 Vdc	10	70-BSMD-250
LED Indicator 7	Providing coil status at a glance		24 Vac/Vdc	10	70-BSMLG-24
			120 Vac/Vdc	10	70-BSMM-120
MOV Suppressor	Protection from damaging electrical spikes		24 Vac/Vdc	10	70-BSMM-24
			240 Vac/Vdc	10	70-BSMM-240

Note: Using an LED socket module can increase the coil power draw by up to 10%.