

Advantages of a Full Featured 700 Series Relay

Since the launch of the 700 series relays in 2000, this product line has continuously evolved both functionally and visually. The 700 series product line has the perfect mix of historical Magnecraft relay quality combined with a dynamic arsenal of options. When mated with the Magnecraft sockets and accessories, these RoHs compliant relays provide a complete modular system that will meet all your plug-in relay requirements in a package that is both visually appealing and functionally outstanding.

- Offers a “one stop solution” for your power management system.
- Several Contact configurations and materials to meet your individual needs.
- Plug-In switching capabilities from 10 mA to 20 Amps.
- Several Feature Code and Operation combinations available for all budgets.
- Ejector clips, ribbed relay housings and space-saving sockets allow for easy removal from crowded DIN rails.
- Color and appearance designed for high visibility in all environments.
- Wiring diagrams include NEMA and IEC standards.
- Engineering availability allows for customized relay solutions.



Removable Lock-Down Door

When Activated, Locks Push Button and Contacts in the Powered Position.

Color-Coded Push Button

Allows Manual Operation of Relay.
AC Coils Red or DC Coils Blue.

Finger Grip Cover

Easy Removal of Relay from Socket.

Gold Flashed Contacts

Prevents Premature Oxidation and Increases Shelf-life.



Contact Viewing Window

Shows Position of Contacts.

Isolated Input and Output Terminals

Separates Control Circuits from Load Circuits.



Slim Design

Minimizes Space on DIN Rail.

Module Compatible

Allows for Optional Protection or LED Modules to be Used With Sockets.



2-Way Side or DIN Rail Mounting System

Retrofits Existing Panel Mounting and 35mm DIN Rail.

The Complete System Solution!

Flag Indicator
Shows Relay Status in Manual or Powered Condition.



Bi-Polar LED Status Lamp
Shows Coil "ON" or "OFF" Status.

I.D. Tag/Write-On Plastic Label
Used for Identification of Relays in Multi-Relay Circuits.

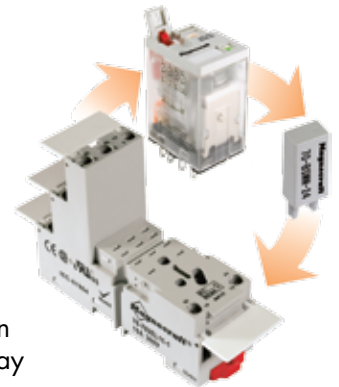
Mating Hold-Down Clip Available
Safely Secures Relay to Socket.



Finger-Safe
Protects Operators from Live Circuits.

I.D. Tag/Write-On Plastic Label
Used to Match Wire Identification Tags with Socket Connections.

Internal Coil Bus Jumper System
Allows Connection to Adjacent Sockets Without Additional Wiring.



Advantages of a Plain Cover 700 Series Relay

The Plain Cover Super Series relays support budget minded applications with premium performance. Maintaining the same ratings and internal components as the Full Feature Series; the Plain Cover Series perform as well as premium relays while maintaining low costs by offering several option configurations.

Finger Grip Cover
Easy Removal of Relay from Socket.

Contact Viewing Window
Shows Position of Contacts.



Gold Flashed Contacts
Prevents Premature Oxidation and Increases Shelf-life.

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Isolated Input and Output Terminals
Separates Control Circuits from Load Circuits.

Slim Design
Minimizes Space on DIN Rail.



Module Compatible
Allows for Optional Protection or LED Modules to be Used With Sockets.

2-Way Side or DIN Rail Mounting System
Retrofits Existing Panel Mounting and 35mm DIN Rail.



The Complete System Solution!

Flag Indicator

Shows Relay Status in Manual or Powered Condition.



Optional Bi-Polar LED Status Lamp

Shows Coil "ON" or "OFF" Status.

I.D. Tag/Write-On Plastic Label

Used for Identification of Relays in Multi-Relay Circuits.

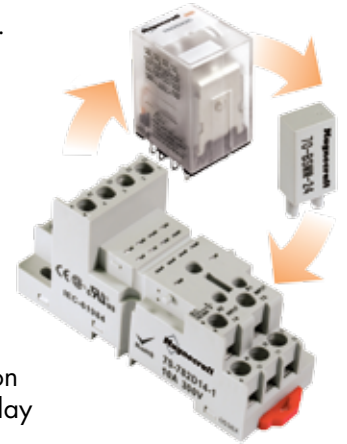
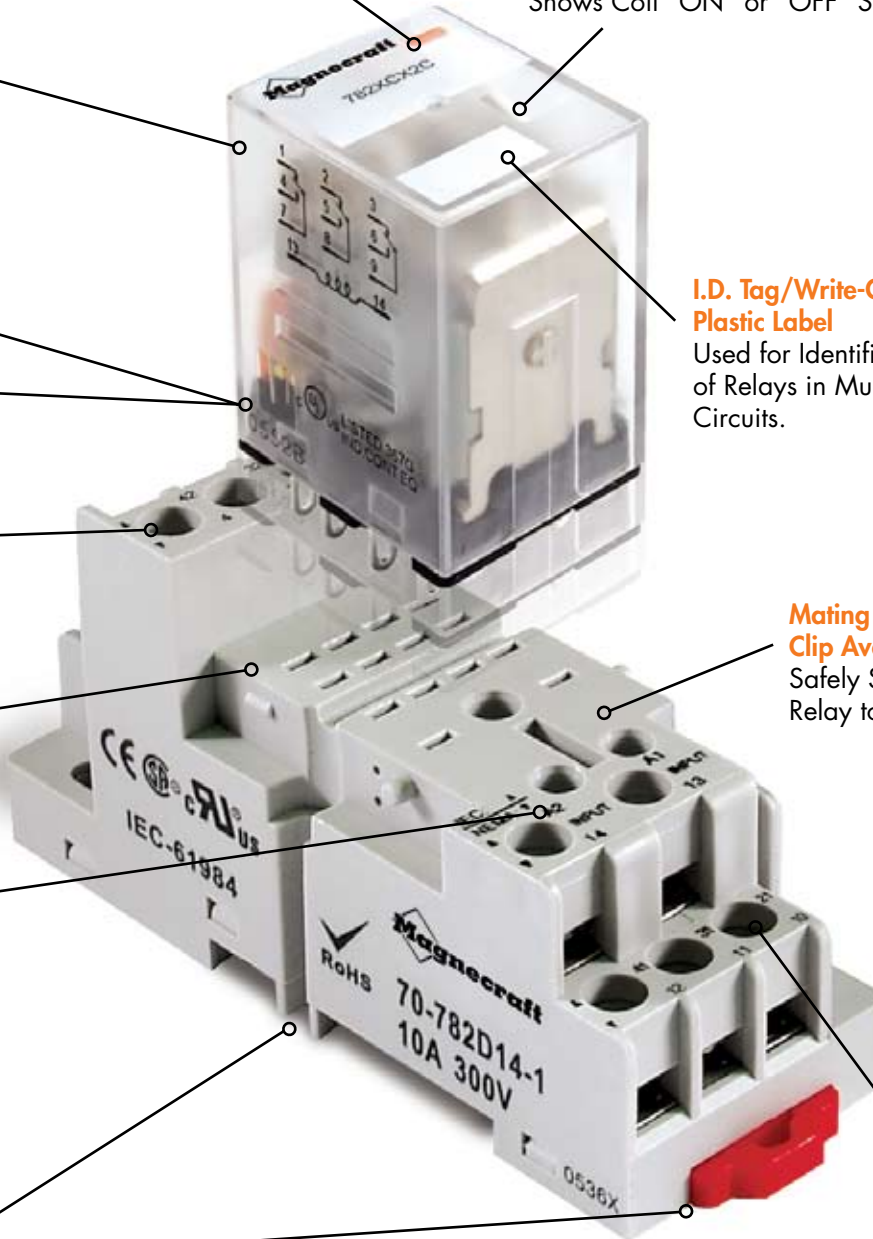
Mating Hold-Down Clip Available

Safely Secures Relay to Socket.

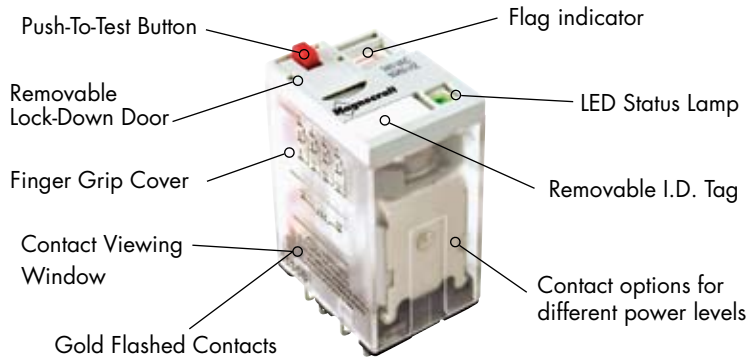


Finger-Safe

Protects Operators from Live Circuits.

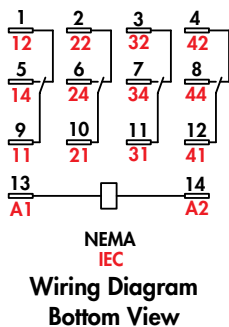


782 Ice Cube Relays/4PDT, 3-10 Amp Rating (DC & AC)

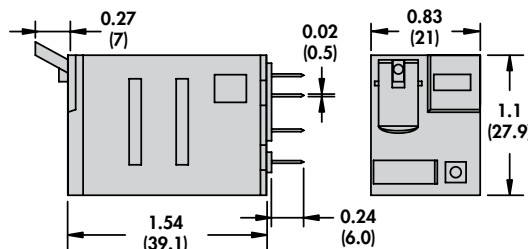


General Specifications (UL 508)		782XDX1		782XDX2	782XDX3
Contact Characteristics		Units	Low Level	Standard	Low Level
Number and type of Contacts			4PDT	4PDT	4PDT
Contact materials			Fine Silver, Gold Diffused	Silver Alloy	Bifurcated
Thermal (Carrying) Current		A	3	10	3
Maximum Switching Voltage		V	240	300	240
Switching Current @ Voltage	~	Resistive	3A @120V 50/60Hz	10A @120V 50/60Hz	3A @120V 50/60Hz
	~	Resistive	3A @240V 50/60Hz	8A @277V 50/60Hz	3A @240V 50/60Hz
	~	Resistive	3A @30V	8A @28V	3A @30V
	~	HP	1/10 @120VAC	1/3 @120VAC	1/16 @120VAC
	~	HP	1/10 @240VAC	1 @277 VAC	
	~	Pilot Duty	C300	B300	
Minimum Switching Requirement		mA	3 @17VDC (.04W)	100 @5VDC (.5W)	3 @17VDC (.04W)
Coil Characteristics					
Voltage Range	~	V	6...240	6...240	6...240
	~	V	6...125	6...125	6...125
Operating Range	% of Nominal	~	85% to 110%	85% to 110%	85% to 110%
		~	80% to 110%	80% to 110%	80% to 110%
Average consumption	~	VA	1.2	1.2	1.2
	~	W	0.9	0.9	0.9
Drop-out voltage threshold	~		15%	15%	15%
	~		10%	10%	10%
Performance Characteristics					
Electrical Life (UL508)	Operations @ Rated Current	(Resistive)	200,000	200,000	200,000
Mechanical Life	Unpowered		10,000,000	10,000,000	10,000,000
Operating time (response time)		ms	20	20	20
Dielectric strength	Between coil and contact	~ V(rms)	1500	1500	1500
	Between poles	~ V(rms)	1500	1500	1500
	Between contacts	~ V(rms)	1500	1500	1500
Environment					
Product certifications	Standard version		UL, CSA, CE	UL, CSA, CE	UL, CSA, CE
Ambient air temperature	Storage	°C	-40...+85	-40...+85	-40...+85
around the device	Operation	°C	-40...+55	-40...+55	-40...+55
Vibration resistance	Operational	g-n	3, 10 - 55 Hz	3, 10 - 55 Hz	3, 10 - 55 Hz
Shock resistance		g-n	10	10	10
Degree of protection			IP 40	IP 40	IP 40
Weight		grams	36	36	36

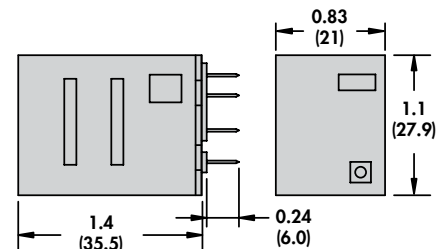
782XDX1, 2, 3



Full Featured Dimensions



Plain Cover Dimensions





Full Featured



Plain Cover

Standard Part Numbers

BOLD-FACED PART NUMBERS ARE NORMALLY STOCKED

Nominal Voltage		Coil Resistance	4PDT Part Number (Full Feature) 10 Amp	4PDT Part Number (Plain Cover) 10 Amp	4PDT Part Number (Full Feature) 3 Amp, Bi-Furcated
AC Operated					
6 VAC 50/60 Hz	9.6 Ohms	782XDX2M4L-6A	782XDX2C-6A	782XDX3M4L-6A	
12 VAC 50/60 Hz	46 Ohms	782XDX2M4L-12A	782XDX2C-12A	782XDX3M4L-12A	
24 VAC 50/60 Hz	180 Ohms	782XDX2M4L-24A	782XDX2C-24A	782XDX3M4L-24A	
120 VAC 50/60 Hz	4430 Ohms	782XDX2M4L-120A	782XDX2C-120A	782XDX3M4L-120A	
220-230 VAC 50/60 Hz	15000 Ohms	782XDX2M4L-220/230A	782XDX2C-220/230A	782XDX3M4L-220/230A	
240 VAC 50/60 Hz	15720 Ohms	782XDX2M4L-240A	782XDX2C-240A	782XDX3M4L-240A	
DC Operated					
6 VDC	40 Ohms	782XDX2M4L-6D	782XDX2C-6D	782XDX3M4L-6D	
12 VDC	160 Ohms	782XDX2M4L-12D	782XDX2C-12D	782XDX3M4L-12D	
24 VDC	650 Ohms	782XDX2M4L-24D	782XDX2C-24D	782XDX3M4L-24D	
48 VDC	2600 Ohms	782XDX2M4L-48D	782XDX2C-48D	782XDX3M4L-48D	
110-125 VDC	11000 Ohms	782XDX2M4L-110/125D	782XDX2C-110/125D	782XDX3M4L-110/125D	

Custom Relay Part Number Builder

782	XDX	1	C	T	M4L-	240A
Series	Contact Config.	Contact Code	Cover Options	Terminal Style	Feature Options	Coil Voltage
782	XDX = 4PDT	3 Amp Fine Silver, Gold Diffused = 1	Full Feature = No Code	Plug In = No Code	Side Push Button = M	VAC = 6 - 240A
		10 Amp Silver Alloy = 2	Plain Cover = C	PC terminal = T	Locking Push Button = M4	VDC = 6 - 125D
		3 Amp Bifurcated = 3			Bi-Polar LED = I	

For other mating sockets, see Section 2: 70-782EL14-1, 70-782E14-1, 70-461-1, 70-378-1, 70-379-1

Relay Adapters



16-782C1

Section 3, p.14-16



16-782C

Section 3, p.14-16

