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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.



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.

- **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.**



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.

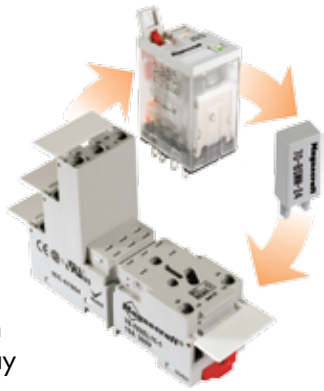
Magnecraft
Your Contact for Industrial Relays

The Complete System Solution!



Flag Indicator
Shows Relay Status in Manual or Powered Condition.

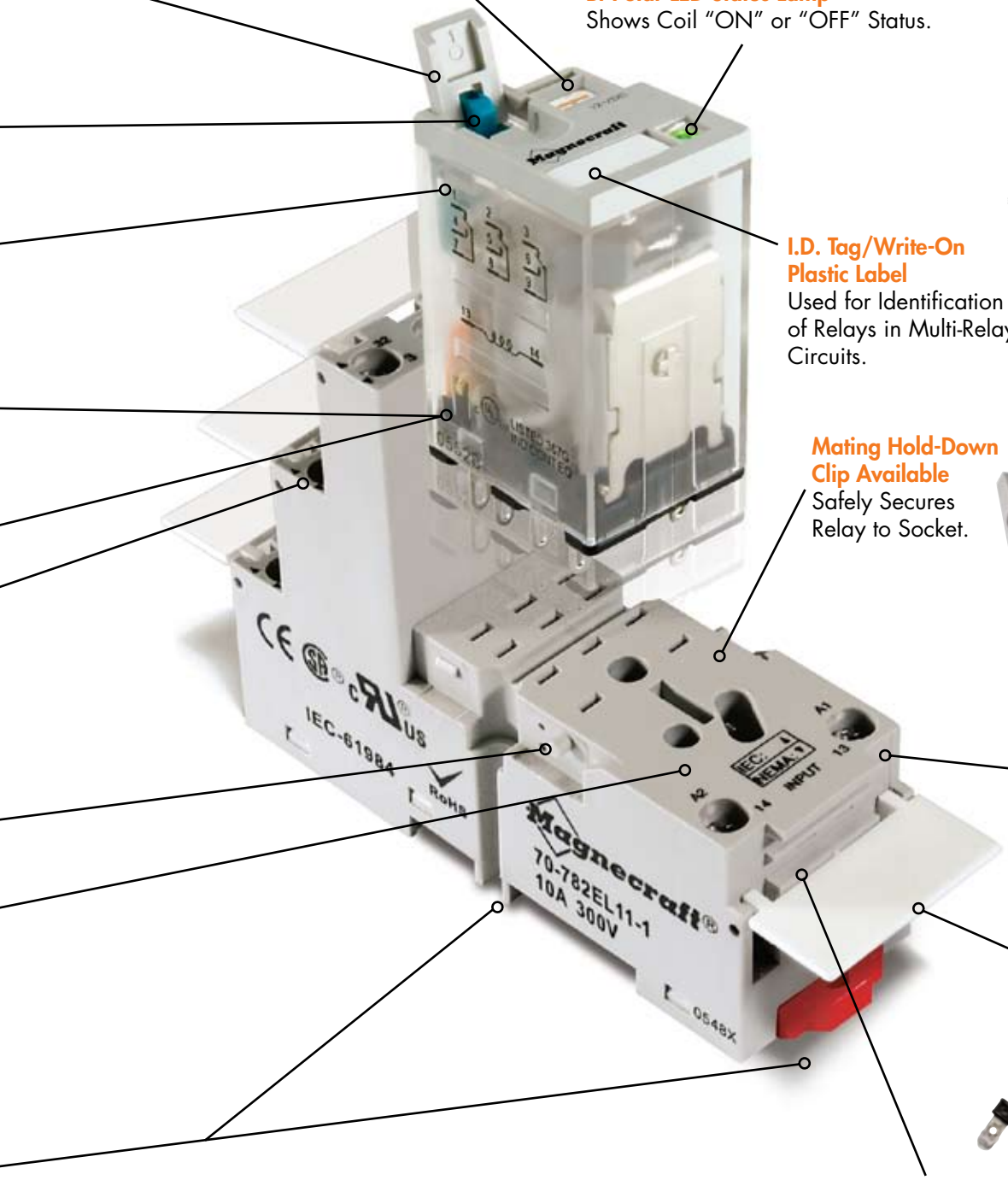
Bi-Polar LED Status Lamp
Shows Coil "ON" or "OFF" Status.



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
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- **Color and appearance designed for high visibility in all environments.**
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- **Engineering availability allows for customized relay solutions.**

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

Slim Design
Minimizes Space on DIN Rail.



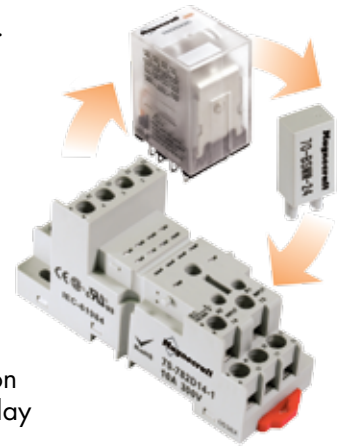
Module Compatible
Allows for Optional Protection or LED Modules to be Used With Sockets.



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

Magnecraft
Your Contact for Industrial Relays

The Complete System Solution!



Flag Indicator
Shows Relay Status in Manual or Powered Condition.

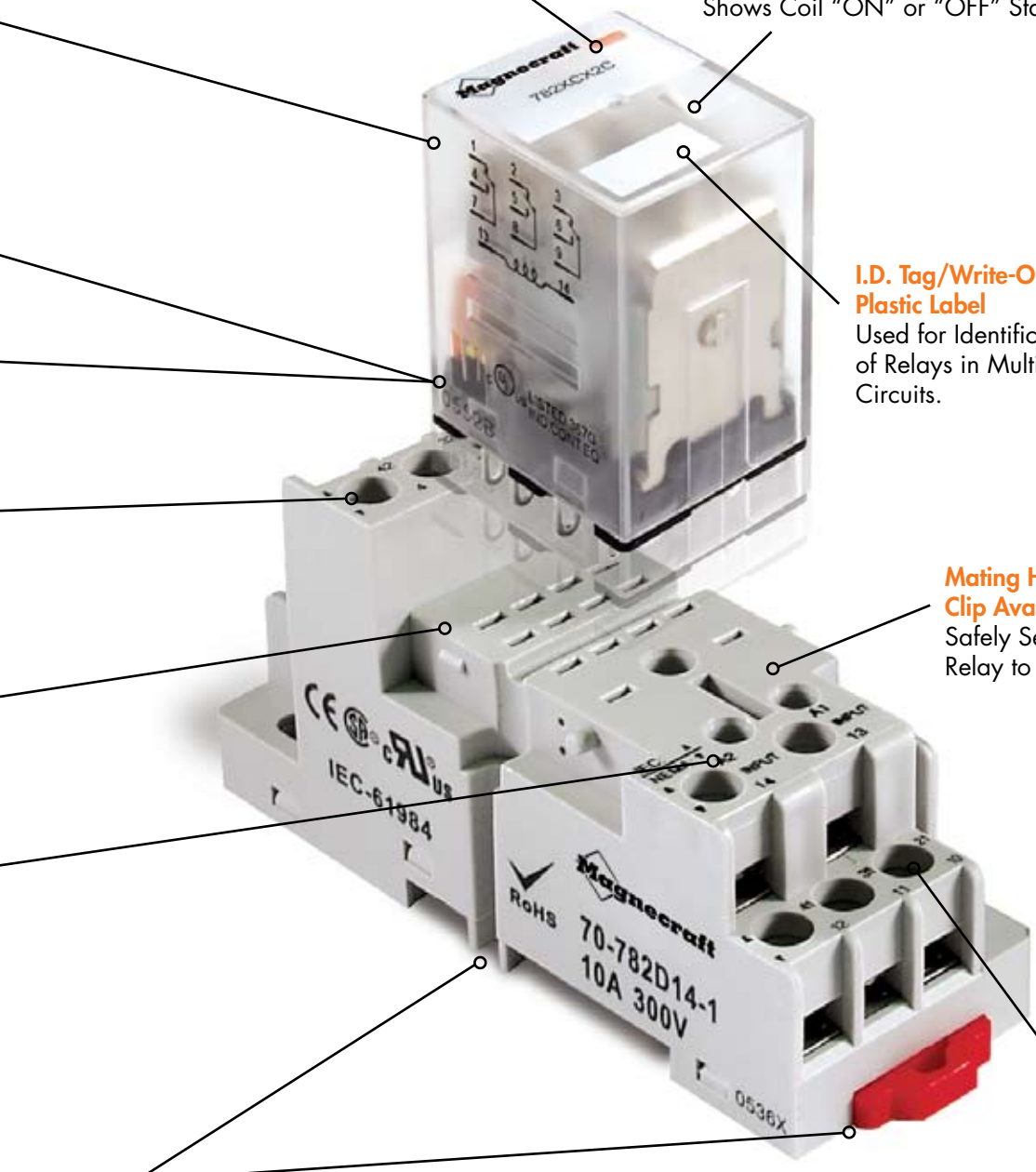


Optional Bi-Polar LED Status Lamp
Shows Coil "ON" or "OFF" Status.

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.



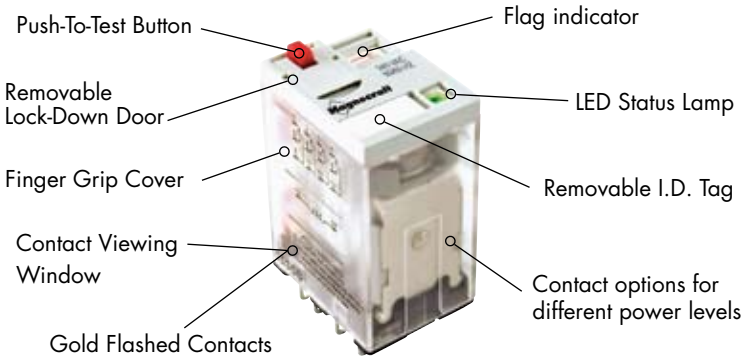


Finger-Safe
Protects Operators from Live Circuits.

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

UL Listed When Used With Magnecraft Sockets.

UL Recognized File No. E43641

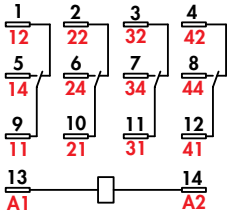




General Specifications (UL 508)

Contact Characteristics			Units	782XDX1 Low Level	782XDX2 Standard	782XDX3 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

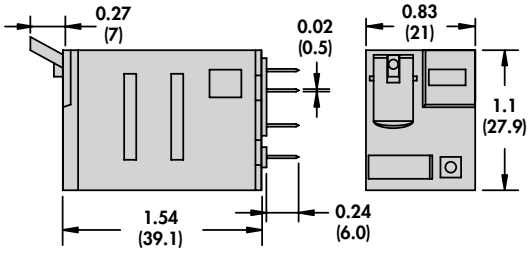
782XDX1, 2, 3



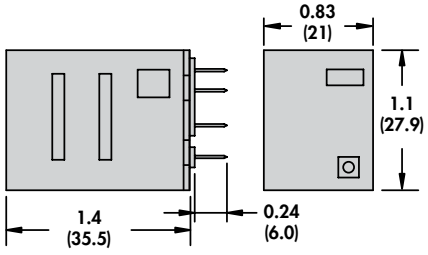
NEMA
IEC

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	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 = L	

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

Relay Adapters



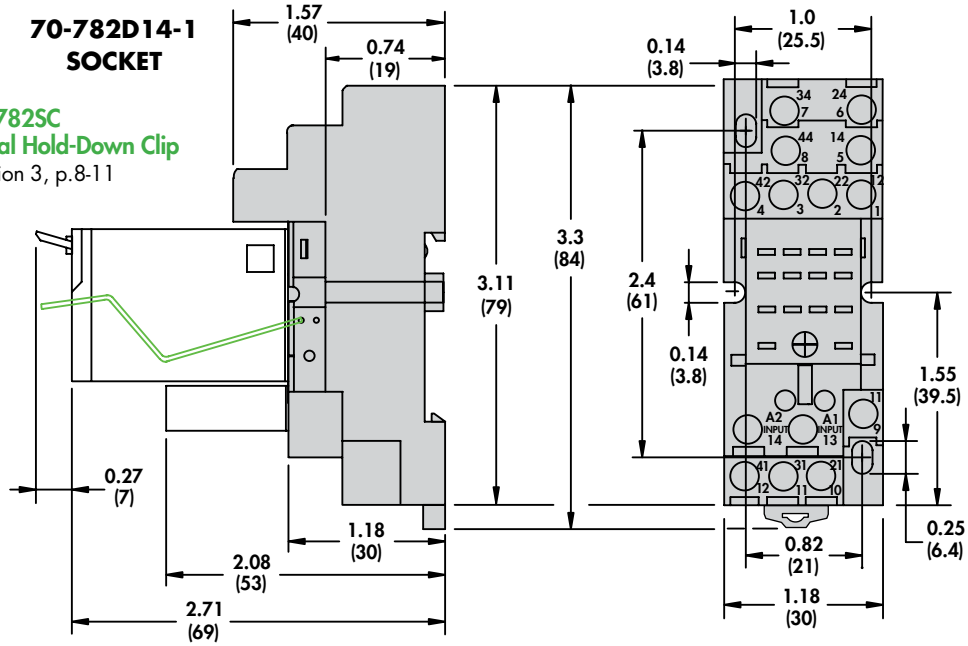
16-782C1
Section 3, p.14-16



16-782C
Section 3, p.14-16

70-782D14-1
SOCKET

16-782SC
Metal Hold-Down Clip
Section 3, p.8-11



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