

# Magnecraft™ General Purpose Relays

Catalog  
2015



**Schneider**  
Electric™

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|-------------------------------------------------|----|
| ■ Series Overview . . . . .                     | 3  |
| ■ 792 Control Series . . . . .                  | 4  |
| ■ 781R Series . . . . .                         | 9  |
| ■ 782 Power Series . . . . .                    | 13 |
| ■ 783 Series . . . . .                          | 17 |
| ■ 784 Series . . . . .                          | 21 |
| ■ 750R Series . . . . .                         | 25 |
| ■ 788R Series . . . . .                         | 29 |
| ■ 782H Hazardous Location Series . . . . .      | 33 |
| ■ 750H Hazardous Location Series . . . . .      | 37 |
| ■ UL Listed Relay/Socket Combinations . . . . . | 41 |
| ■ Sockets and Accessories . . . . .             | 42 |
| □ Socket Specifications . . . . .               | 42 |
| □ Mounting Adapter Specifications . . . . .     | 65 |
| □ Socket Accessories . . . . .                  | 66 |
| ■ Application Data . . . . .                    | 73 |
| ■ Website Guide . . . . .                       | 75 |

Designed with specialized magnetic armatures and coils, Magnecraft™ General Purpose Relays easily handle current loads ranging from 10 mA to as large as 15 A. With multiple features, and a broad line of sockets and accessories, these relays offer the options needed to improve design, expedite installation, and simplify testing of your application.

### Key Features

- Socket, panel, and DIN mounting options
- Multiple features and contact configurations available
- Optional protection, mounting, and identification accessories
- Ideal for MRO direct replacement
- UL Class I Division 2 models for hazardous locations



| Series      | Features                  | Terminals      | Contact Configuration | Output Current | Page |
|-------------|---------------------------|----------------|-----------------------|----------------|------|
| 792 Control | Plug-In Relay             | Blade          | DPDT and 4PDT         | 3–12 A         | 4    |
| 781R        | Plug-In Relay             | Blade          | SPDT                  | 15 A           | 9    |
| 782 Power   | Plug-In Relay             | Blade          | DPDT                  | 15 A           | 13   |
| 783         | Plug-In Relay             | Blade          | 3PDT                  | 15 A           | 17   |
| 784         | Plug-In Relay             | Blade          | 4PDT                  | 15 A           | 21   |
| 750R        | Plug-In Relay             | Octal (8 Pin)  | DPDT                  | 10 A           | 25   |
|             |                           | Octal (11 Pin) | 3PDT                  | 10 A           |      |
| 788R        | Plug-In Relay             | Blade          | DPDT and 3PDT         | 10 A           | 29   |
| 782H        | Hermetically Sealed Relay | Blade          | 4PDT                  | 5 A            | 33   |
|             |                           |                |                       | 3 A            |      |
|             |                           |                |                       | 1 A            |      |
| 750H        | Hermetically Sealed Relay | Octal (8 Pin)  | DPDT                  | 12 A           | 37   |
|             |                           | Octal (11 Pin) | 3PDT                  | 12 A           |      |

## Description

# Magnecraft General Purpose Relays

## 792 Control Series

DPDT 12 A; 4PDT 6 A and 3 A



UL Listed when used with proper Magnecraft 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; 4PDT models save valuable space while adding increased functionality.

| Feature                             | Benefit                                                                                                                           |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 12 A / 6 A / 3 A switching current  | Ideal for various automation panels and controls                                                                                  |
| Clear or full-feature cover options | Full-feature covers include LED indicator and locking test button to facilitate maintenance and expedite commissioning            |
| DPDT and 4PDT contact options       | Simultaneously control 2 or 4 separate circuits                                                                                   |
| Socket mount option                 | Simplifies installation and maintenance while also allowing the use of protection modules, hold-down clips, and other accessories |
| Gold-flashed contacts               | Reduces contact oxidation and increases shelf life                                                                                |
| Mechanical flag indicator           | Standard feature that displays relay status during testing or operation without having to power the relay                         |

| Contact Rating | Contact Configuration | Nominal Coil Voltage | Coil Resistance (Ω) | Contacts             | Part Number: Clear Cover | Part Number: Clear Cover with LED | Part Number: 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             | 792XBXC-12A              | —                                 | 792XBXM4L-12A                   |
|                |                       | 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             | 792XDXC-12A              | 792XDXCL-12A                      | 792XDXM4L-12A                   |
|                |                       | 24 Vac               | 177                 |                      | 792XDXC-24A              | 792XDXCL-24A                      | 792XDXM4L-24A                   |
|                |                       | 48 Vac               | 708                 |                      | 792XDXC-48A              | 792XDXCL-48A                      | 792XDXM4L-48A                   |
|                |                       | 120 Vac              | 3630                |                      | 792XDXC-120A             | 792XDXCL-120A                     | 792XDXM4L-120A                  |
|                |                       | 240 Vac              | 17720               |                      | 792XDXC-240A             | 792XDXCL-240A                     | 792XDXM4L-240A                  |
|                |                       | 12 Vdc               | 160                 |                      | 792XDXC-12D              | 792XDXCL-12D                      | 792XDXM4L-12D                   |
|                |                       | 24 Vdc               | 640                 |                      | 792XDXC-24D              | 792XDXCL-24D                      | 792XDXM4L-24D                   |
|                |                       | 48 Vdc               | 2560                |                      | 792XDXC-48D              | 792XDXCL-48D                      | 792XDXM4L-48D                   |
|                |                       | 110 Vdc              | 13440               |                      | 792XDXC-110D             | 792XDXCL-110D                     | 792XDXM4L-110D                  |
|                |                       |                      |                     |                      |                          |                                   |                                 |

## Part Number Explanation

|                                                  |                                                           |                                                                                                     |                                                                                                           |                                                                       |
|--------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>Series:</b><br>792 = 792 Series Control Relay | <b>Contact Configuration:</b><br>XBX = DPDT<br>XDX = 4PDT | <b>Contact Code:</b><br>None = Standard 6–12 A Silver Alloy Contacts<br>3 = 3 A Bifurcated Contacts | <b>Cover Options:</b><br>C = Clear Cover<br>CL = Clear Cover and LED<br>M4L = Locking Push Button and LED | <b>Coil Voltages:</b><br>12–240A = 12–240 Vac<br>12–110D = 12–110 Vdc |
|--------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|

\*Please contact Customer Service for more information (847-441-2540).

## Specifications

| Part Number                                                  | 792XBX                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contact Characteristics</b>                               |                                                                                                                                                                                                                                                                                        |
| Terminal Style                                               | Blade                                                                                                                                                                                                                                                                                  |
| Contact Material                                             | Silver Alloy                                                                                                                                                                                                                                                                           |
| Contact Configuration                                        | DPDT                                                                                                                                                                                                                                                                                   |
| Carrying Current                                             | 12 A                                                                                                                                                                                                                                                                                   |
| Maximum Switching Voltage                                    | IEC: 250 Vac / 28 Vdc<br>UL/CSA: 300 Vac / 30 Vdc                                                                                                                                                                                                                                      |
| Rated Switching Current<br>(Conforming to IEC AC-1 and DC-1) | NO: 12 A at 250 Vac, NC: 6 A at 250 Vac<br>NO: 12 A at 28 Vdc, NC: 6 A at 28 Vdc                                                                                                                                                                                                       |
| Rated Switching Current<br>(Conforming to UL)                | <b>Resistive:</b> 12 A at 277 Vac, 100 k cycles<br><b>Resistive:</b> 12 A at 120 Vac, 200 k cycles<br><b>Resistive:</b> 12 A at 30 Vdc, 100 k cycles<br><b>Motor:</b> 1/2 hp at 120 Vac, 6 k cycles<br><b>Motor:</b> 1 hp at 277 Vac, 6 k cycles<br><b>B300 Pilot Duty,</b> 6 k cycles |
| Minimum Switching Requirement                                | 10 mA at 17 Vdc                                                                                                                                                                                                                                                                        |
| <b>Coil Characteristics</b>                                  |                                                                                                                                                                                                                                                                                        |
| Maximum Operating Voltage                                    | 110% (AC/DC)                                                                                                                                                                                                                                                                           |
| Maximum Pickup Voltage                                       | 80% (AC); 80% (DC)                                                                                                                                                                                                                                                                     |
| Drop-out Voltage Threshold                                   | 15% (AC); 10% (DC)                                                                                                                                                                                                                                                                     |
| Average Consumption                                          | 0.9–1.2 VA (AC); 0.8–1.1 W (DC)                                                                                                                                                                                                                                                        |
| <b>General Characteristics</b>                               |                                                                                                                                                                                                                                                                                        |
| 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<br>20 ms max. at 100% rated coil voltage                                                                                                                                                                                                          |
| Release time                                                 | 20 ms max. (DC)<br>35 ms max. (AC)                                                                                                                                                                                                                                                     |
| Impulse Withstand Voltage                                    | 4 kV (1.2 / 50 $\mu$ s)                                                                                                                                                                                                                                                                |
| Dielectric Strength—Between Coil and Contact (AC)            | 2000 V (rms)                                                                                                                                                                                                                                                                           |
| Dielectric Strength—Between Poles (AC)                       | 2000 V (rms)                                                                                                                                                                                                                                                                           |
| Dielectric Strength—Between Contacts (AC)                    | 1300 V (rms)                                                                                                                                                                                                                                                                           |
| Ambient Air Temperature around the Device—Storage            | –40 to +85 °C (–40 to +185 °F)                                                                                                                                                                                                                                                         |
| Ambient Air Temperature around the Device—Operation          | –40 to +55 °C (–40 to +131 °F)                                                                                                                                                                                                                                                         |
| Vibration Resistance—In Operation                            | 3 gn at 35–150 Hz                                                                                                                                                                                                                                                                      |
| Vibration Resistance—Not Operating                           | 5 gn at 35–150 Hz                                                                                                                                                                                                                                                                      |
| Shock Resistance—In Operation                                | 10 gn                                                                                                                                                                                                                                                                                  |
| Shock Resistance—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 (225619), RoHS                                                                                                                                                                                                                                   |

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

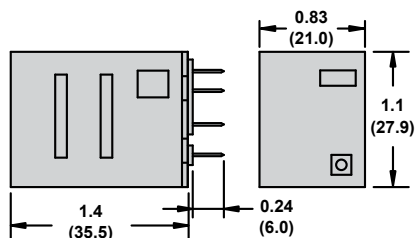
## Specifications (continued)

| Part Number                                                | 792XDX                                                                                                                                                                                                                               | 792XDX3                                                                                                                                                                                                                                    |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contact Characteristics</b>                             |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                            |
| 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<br>(Conforming to IEC AC1 and DC1) | NO: 6 A at 250 Vac; NC: 3 A at 250 Vac<br>NO: 6 A at 28 Vdc; NC: 3 A at 28 Vdc                                                                                                                                                       | NO: 2 A at 250 Vac; NC: 1 A at 250 Vac<br>NO: 2 A at 28 Vdc; NC: 1 A at 28 Vdc                                                                                                                                                             |
| Switching Current<br>(Conforming to UL)                    | <b>Resistive:</b> 6 A at 277 Vac, 200 k cycles<br>8 A at 120 Vac, 200 k cycles<br>8 A at 30 Vdc, 200 k cycles<br><b>Motor:</b> 1/3 hp at 120 Vac, 6 k cycles<br>1/2 hp at 277 Vac, 6 k cycles<br><b>Pilot Duty:</b> B300, 6 k cycles | <b>General Purpose:</b> 3 A at 240–277 Vac<br>3 A at 120 Vac<br>3 A at 30 Vdc<br><b>Resistive:</b> 3 A at 30 Vdc<br><b>Motor:</b> 1/16 hp (2.8 A FLA) at 120 Vac<br><b>Pilot Duty:</b> 5 A make, 0.5 A break,<br>3 A continuous at 120 Vac |
| Minimum Switching Requirement                              | 10 mA at 17 Vdc                                                                                                                                                                                                                      | 3 mA at 5 Vdc                                                                                                                                                                                                                              |
| <b>Coil Characteristics</b>                                |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                            |
| 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)                                                                                                                                                                                                      |                                                                                                                                                                                                                                            |
| <b>General Characteristics</b>                             |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                            |
| 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<br>20 ms max. at 100% rated coil voltage                                                                                                                                                        |                                                                                                                                                                                                                                            |
| Release time                                               | DC: 20 ms max.<br>AC: 35 ms max.                                                                                                                                                                                                     |                                                                                                                                                                                                                                            |
| Impulse Withstand Voltage                                  | 2.5 kV (1.2 / 50 $\mu$ s)                                                                                                                                                                                                            |                                                                                                                                                                                                                                            |
| Dielectric Strength—Between Coil and Contact (AC)          | 2000 V (rms)                                                                                                                                                                                                                         |                                                                                                                                                                                                                                            |
| Dielectric Strength—Between Poles (AC)                     | 1600 V (rms)                                                                                                                                                                                                                         |                                                                                                                                                                                                                                            |
| Dielectric Strength—Between Contacts (AC)                  | 1300 V (rms)                                                                                                                                                                                                                         |                                                                                                                                                                                                                                            |
| Ambient Air Temperature around the Device—Storage          | –40 to +85 °C (–40 to +185 °F)                                                                                                                                                                                                       |                                                                                                                                                                                                                                            |
| Ambient Air Temperature around the Device—Operation        | –40 to +55 °C (–40 to +131 °F)                                                                                                                                                                                                       |                                                                                                                                                                                                                                            |
| Vibration Resistance—In Operation                          | 3 gn at 35–150 Hz                                                                                                                                                                                                                    |                                                                                                                                                                                                                                            |
| Vibration Resistance—Not Operating                         | 5 gn at 35–150 Hz                                                                                                                                                                                                                    |                                                                                                                                                                                                                                            |
| Shock Resistance—In Operation                              | 10 gn                                                                                                                                                                                                                                |                                                                                                                                                                                                                                            |
| Shock Resistance—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 (225619), RoHS                                                                                                                                                                                 |                                                                                                                                                                                                                                            |

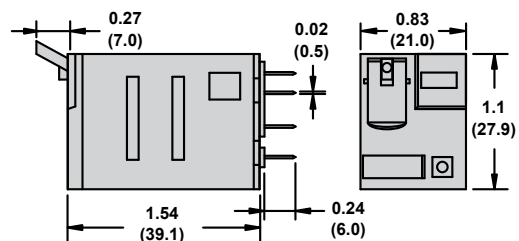
Note: Actual product performance may vary depending on application and environmental conditions.

## Dimensions, in. (mm)

### Clear Cover Dimension

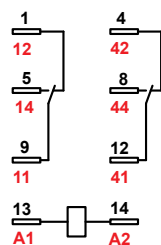


### Full-Feature Cover Dimension



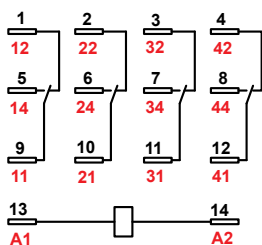
## Wiring Diagrams

### DPDT



NEMA  
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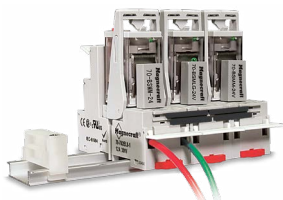
### 4PDT



NEMA  
IEC

# Magnecraft General Purpose Relays

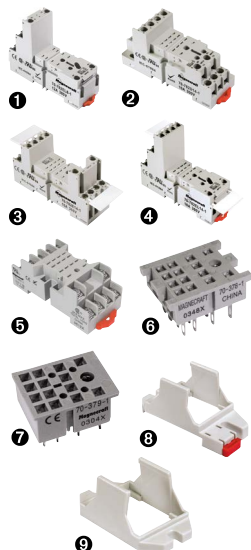
## 792 Control Series Accessories



### Description

Optional sockets offer customizable, Fingersafe™ solutions including protection modules, hold-down clips, and ID tags. Sockets are DIN rail and panel mount compatible.

### Relay Accessories



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

### Socket Accessories



| Description                                       | Function                                                                              | For Use with Sockets                                | Coil Voltage | Pkg. Min. | Standard Part Number |
|---------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------|--------------|-----------|----------------------|
| Metal Spring Clip ❶                               | Secures relay in socket                                                               | 70-782D14-1, 70-782E14-1, 70-782EL14-1, 70-782EL8-1 | —            | 10        | 16-782SC             |
| Plastic Hold-Down Clip ❷                          | Secures relay in socket or ejects relay off socket                                    |                                                     | —            | 10        | 16-782PC-1           |
| Write-on Tag ❸                                    | Small write-on tag                                                                    |                                                     | —            | 10        | 16-782FT-1           |
| Write-on Tag ❹                                    | Write-on tag for 16-782PC-1 hold-down clip                                            | —                                                   | —            | 10        | 16-700ST-1           |
| Extruded Aluminum DIN Rail, 39.37 in. (1000 mm) ❺ | 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 ❻                               | Holds sockets firmly in place on DIN rail                                             | —                                                   | —            | 10        | 16-DCLIP-1           |
| Insulated Coil Bus Jumper System ❼                | Wireless socket connection                                                            | 70-782EL8-1, 70-782EL14-1                           | —            | 10        | 16-782CBJ-1          |
| Small Socket Module                               | Protection diode ( <i>protects external drive circuitry from inductive voltages</i> ) | 70-782D14-1, 70-782E14-1, 70-782EL14-1, 70-782EL8-1 | 6 to 250 Vdc | 10        | 70-BSMD-250          |
| Small Socket Module ❼                             | LED indicator ( <i>provides coil status at a glance</i> )                             |                                                     | 24 Vac/Vdc   | 10        | 70-BSMLG-24          |
| Small Socket Module                               | MOV suppressor ( <i>protects from damaging electrical spikes</i> )                    |                                                     | 120 Vac/Vdc  | 10        | 70-BSMM-120          |
|                                                   |                                                                                       |                                                     | 24 Vac/Vdc   | 10        | 70-BSMM-24           |
|                                                   |                                                                                       |                                                     | 240 Vac/Vdc  | 10        | 70-BSMM-240          |

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

## Description

# Magnecraft General Purpose Relays

781R Series

SPDT 15 A



UL Listed when used with proper Magnecraft sockets

## Description

The 781R Series plug-in relays offer clear or full-feature covers with multiple mounting options and accessories.



781R Clear Cover

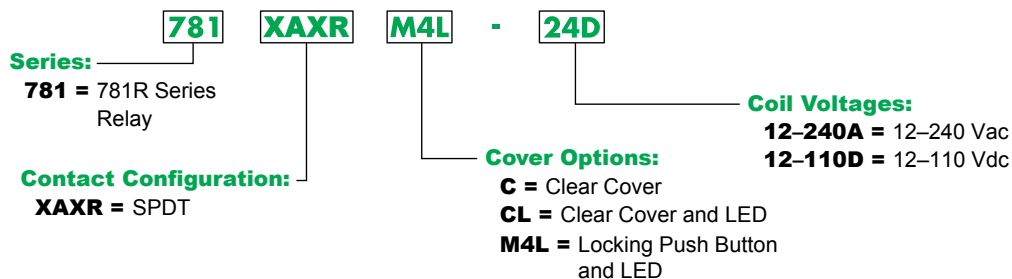


781R Full-Feature Cover

| Feature                             | Benefit                                                                                                                           |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 15 A max. switching current         | Ideal for automation control panels                                                                                               |
| 14 mm width                         | Slim design saves valuable space                                                                                                  |
| Clear or full-feature cover options | Full-feature covers include LED indicator and locking test button                                                                 |
| Socket mount option                 | Simplifies installation and maintenance while also allowing the use of protection modules, hold-down clips, and other accessories |
| Gold-flashed contacts               | Reduces contact oxidation and increases shelf life                                                                                |
| Mechanical flag indicator           | Standard feature displays relay status during testing or operation                                                                |

| Contact Rating | Contact Configuration | Nominal Voltage   | Coil Resistance (Ω) | Standard Part Number: Clear Cover | Standard Part Number: Clear Cover with LED | Standard Part Number: Full-Feature |
|----------------|-----------------------|-------------------|---------------------|-----------------------------------|--------------------------------------------|------------------------------------|
| 15 A           | SPDT                  | 12 Vac, 50/60 Hz  | 44                  | 781XAXRC-12A                      | 781XAXRCL-12A                              | 781XAXRM4L-12A                     |
|                |                       | 24 Vac, 50/60 Hz  | 177                 | 781XAXRC-24A                      | 781XAXRCL-24A                              | 781XAXRM4L-24A                     |
|                |                       | 48 Vac, 50/60 Hz  | 708                 | 781XAXRC-48A                      | 781XAXRCL-48A                              | 781XAXRM4L-48A                     |
|                |                       | 120 Vac, 50/60 Hz | 4430                | 781XAXRC-120A                     | 781XAXRCL-120A                             | 781XAXRM4L-120A                    |
|                |                       | 240 Vac, 50/60 Hz | 17720               | 781XAXRC-240A                     | 781XAXRCL-240A                             | 781XAXRM4L-240A                    |
|                |                       | 12 Vdc            | 115                 | 781XAXRC-12D                      | 781XAXRCL-12D                              | 781XAXRM4L-12D                     |
|                |                       | 24 Vdc            | 450                 | 781XAXRC-24D                      | 781XAXRCL-24D                              | 781XAXRM4L-24D                     |
|                |                       | 48 Vdc            | 1800                | 781XAXRC-48D                      | 781XAXRCL-48D                              | 781XAXRM4L-48D                     |
|                |                       | 110 Vdc           | 9460                | 781XAXRC-110D                     | 781XAXRCL-110D                             | 781XAXRM4L-110D                    |

## Part Number Explanation



Please contact Customer Service for more information (847-441-2540).

# Magnecraft General Purpose Relays

## 781R Series

### SPDT 15 A

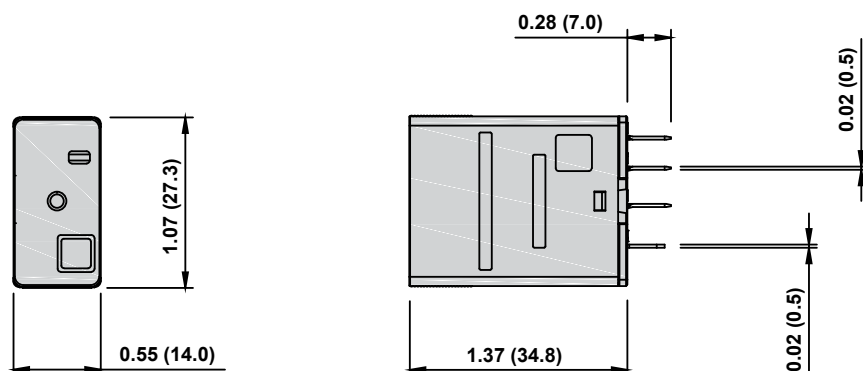
## Specifications

| Part Number                                                             | 781XAXR                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contact Characteristics</b>                                          |                                                                                                                                                                                                                                     |
| Terminal Style                                                          | Blade                                                                                                                                                                                                                               |
| Contact Material                                                        | Silver Alloy                                                                                                                                                                                                                        |
| Contact Configuration                                                   | SPDT                                                                                                                                                                                                                                |
| Carrying Current                                                        | 15 A                                                                                                                                                                                                                                |
| Maximum Switching Voltage                                               | IEC: 250 Vac / 28 Vdc<br>UL/CSA: 300 Vac / 28 Vdc                                                                                                                                                                                   |
| Rated Switching Current at Voltage<br>(Conforming to IEC AC-1 and DC-1) | NO: 15 A at 250 Vac; NC: 7.5 A at 250 Vac<br>NO: 15 A at 28 Vdc; NC: 7.5 A at 28 Vdc                                                                                                                                                |
| Rated Switching Current at Voltage<br>(Conforming to UL)                | <b>Resistive:</b> 15 A at 277 Vac, 50/60 Hz, 100 k cycles<br>15 A at 28 Vdc, 100 k cycles<br><b>Motor:</b> 1/2 hp at 120 Vac, 1 k cycles<br>1 hp at 277 Vac, 1 k cycles<br><b>Pilot Duty:</b> B300                                  |
| Rated Switching Current at Voltage<br>(Conforming to CSA)               | <b>Resistive:</b> 15 A at 150 Vac, 50/60 Hz, 100 k cycles<br>10 A at 277 Vdc, 100 k cycles<br>15 A at 28 Vdc, 100 k cycles<br><b>Motor:</b> 1/2 hp at 120 Vac, 1 k cycles<br>1 hp at 277 Vac, 1 k cycles<br><b>Pilot Duty:</b> B300 |
| Minimum Switching Requirement                                           | 10 mA at 17 Vdc                                                                                                                                                                                                                     |
| <b>Coil Characteristics</b>                                             |                                                                                                                                                                                                                                     |
| Maximum Operating Voltage                                               | 110% (AC/DC)                                                                                                                                                                                                                        |
| Maximum Pickup Voltage                                                  | 85% (AC/DC)                                                                                                                                                                                                                         |
| Drop-out Voltage Threshold                                              | 15% (AC); 10% (DC)                                                                                                                                                                                                                  |
| Average Consumption                                                     | Standard: 1.6 VA (AC); 1.1 W (DC)<br>With LED: 1.9 VA (AC); 1.4 W (DC)                                                                                                                                                              |
| <b>General Characteristics</b>                                          |                                                                                                                                                                                                                                     |
| Electrical Life at Rated Load                                           | 100,000 operations                                                                                                                                                                                                                  |
| Mechanical Life (Unpowered)                                             | 10,000,000 operations                                                                                                                                                                                                               |
| Operating Time (Response Time)                                          | 20 ms                                                                                                                                                                                                                               |
| Dielectric Strength—Between Coil and Contact (AC)                       | 2000 V (rms)                                                                                                                                                                                                                        |
| Dielectric Strength—Between Poles (AC)                                  | 2000 V (rms)                                                                                                                                                                                                                        |
| Dielectric Strength—Between Contacts (AC)                               | 1500 V (rms)                                                                                                                                                                                                                        |
| Ambient Air Temperature around the Device—Storage                       | –40 to +85 °C (–40 to +185 °F)                                                                                                                                                                                                      |
| Ambient Air Temperature around the Device—Operation                     | –40 to +55 °C (–40 to +131 °F)                                                                                                                                                                                                      |
| Vibration Resistance—In Operation                                       | ±1 mm (10–35 Hz) and 3 gn (35–150 Hz)                                                                                                                                                                                               |
| Shock Resistance                                                        | 15 gn                                                                                                                                                                                                                               |
| Degree of Protection (Housing Only)                                     | IP40                                                                                                                                                                                                                                |
| Weight                                                                  | 29 g (1.02 oz)                                                                                                                                                                                                                      |
| Agency Approvals                                                        | UL with socket, UR (E164862), CE, CSA (225619), RoHS                                                                                                                                                                                |

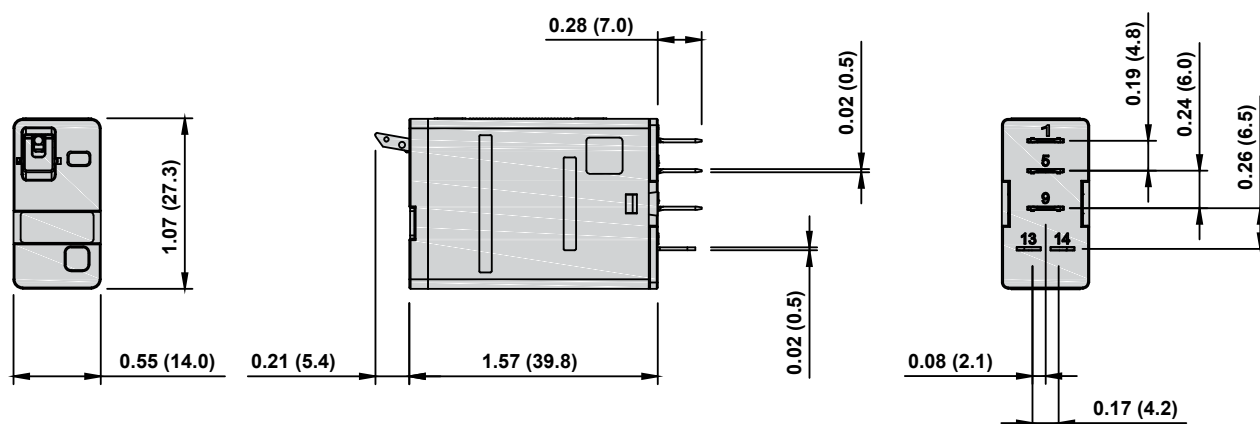
Note: Actual product performance may vary depending on application and environmental conditions.

## Dimensions, in. (mm)

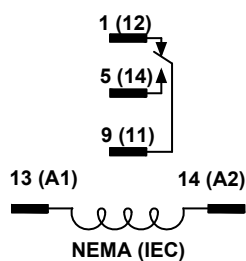
### Clear Cover Dimensions

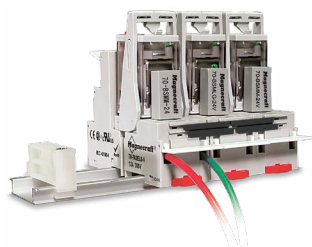


### Full-Feature Cover Dimensions



## Wiring Diagram

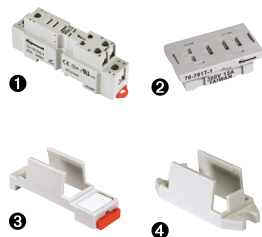




Description

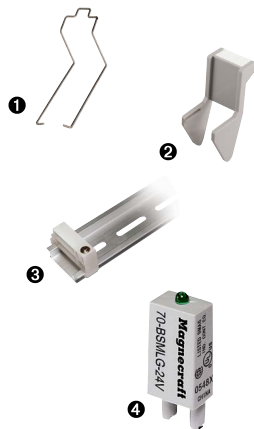
Optional sockets offer customizable, Fingersafe solutions including protection modules, hold-down clips, and ID tags. Sockets are DIN rail and panel mount compatible.

Relay Accessories



| Description | Function                                                   | For Use with Relays | Pkg. Min. | Standard Part Number |
|-------------|------------------------------------------------------------|---------------------|-----------|----------------------|
| Socket 1    | DIN / Panel mount with screw terminals and clamping plates | 781XAXR             | 10        | 70-781D5R-1A         |
| Socket 2    | PCB-mount socket                                           |                     | 10        | 70-781T-1            |
| Adapter 3   | Mount directly to DIN rail                                 |                     | 10        | 16-781C              |
| Adapter 4   | Mount directly to panel                                    |                     | 10        | 16-781C1             |

Socket Accessories



| Description                                       | Function                                                                               | For Use with Sockets    | Coil Voltage | Pkg. Min. | Standard Part Number |
|---------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------|--------------|-----------|----------------------|
| Metal Spring Clip ❶                               | Secures relay in socket                                                                | 70-781D5R-1A, 70-781T-1 | –            | 10        | 16-781SC             |
| Plastic ID Hold-Down Clip ❷                       | Secures relay in socket and provides labeling                                          | 70-781D5R-1A            | –            | 10        | 16-781IDC            |
| Extruded Aluminum DIN Rail, 39.37 in. (1000 mm) ❸ | Quick installation and removal of sockets                                              |                         | –            | 10        | 16-700DIN            |
| DIN Rail End Clip ❸                               | Holds sockets firmly in place on DIN rail                                              | –                       | –            | 10        | 16-DCLIP-1           |
| Small Socket Module                               | Protection diode<br><i>(protects external drive circuitry from inductive voltages)</i> | 70-781D5R-1A            | 6 to 250 Vdc | 10        | 70-BSMD-250          |
| Small Socket Module ❹                             | LED indicator <i>(provides coil status at a glance)</i>                                |                         | 24 Vac/Vdc   | 10        | 70-BSMLG-24          |
| Small Socket Module                               | MOV suppressor<br><i>(protects from damaging electrical spikes)</i>                    |                         | 120 Vac/Vdc  | 10        | 70-BSMM-120          |
|                                                   |                                                                                        |                         | 24 Vac/Vdc   | 10        | 70-BSMM-24           |
|                                                   |                                                                                        |                         | 240 Vac/Vdc  | 10        | 70-BSMM-240          |

Note: Use of a LED socket module can increase coil power draw by up to 10%.

## Description

# Magnecraft General Purpose Relays

## 782 Power Series

### DPDT 15 A



UL Listed when used with proper Magnecraft sockets



782 Clear Cover



782 Full-Feature Cover

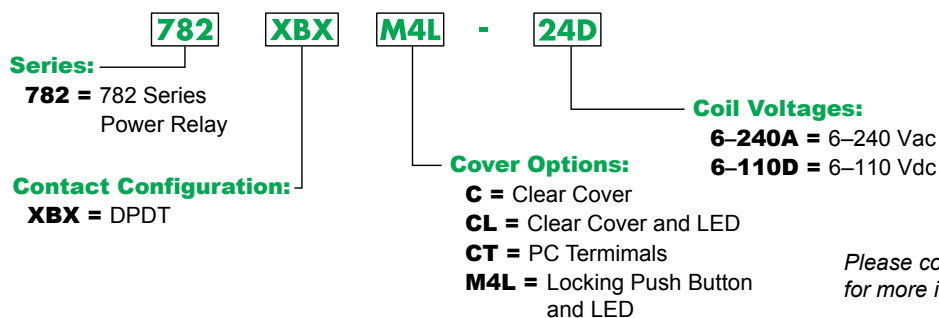
## Description

The 782 Plug-in Power relays offer clear or full-feature covers with multiple mounting options and accessories.

| Feature                             | Benefit                                                                                                                           |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 15 A switching current              | Ideal for automation control panels                                                                                               |
| Clear or full-feature cover options | Full-feature covers include LED indicator and locking test button                                                                 |
| Socket mount option                 | Simplifies installation and maintenance while also allowing the use of protection modules, hold-down clips, and other accessories |
| Gold-flashed contacts               | Reduces contact oxidation and increases shelf life                                                                                |
| Mechanical flag indicator           | Standard feature displays relay status during testing or operation                                                                |

| Contact Rating | Contact Configuration | Nominal Voltage   | Coil Resistance (Ω) | Standard Part Number: Clear Cover | Standard Part Number: Clear Cover with LED | Standard Part Number: PC Mount | Standard Part Number: Full-Feature |
|----------------|-----------------------|-------------------|---------------------|-----------------------------------|--------------------------------------------|--------------------------------|------------------------------------|
| 15 A           | DPDT                  | 6 Vac, 50/60 Hz   | 11                  | —                                 | —                                          | 782XBXCT-6A                    | —                                  |
|                |                       | 12 Vac, 50/60 Hz  | 44                  | 782XBXC-12A                       | 782XBXCL-12A                               | 782XBXCT-12A                   | 782BXM4L-12A                       |
|                |                       | 24 Vac, 50/60 Hz  | 177                 | 782XBXC-24A                       | 782XBXCL-24A                               | 782XBXCT-24A                   | 782BXM4L-24A                       |
|                |                       | 48 Vac, 50/60 Hz  | 708                 | 782XBXC-48A                       | 782XBXCL-48A                               | 782XBXCT-48A                   | 782BXM4L-48A                       |
|                |                       | 120 Vac, 50/60 Hz | 4430                | 782XBXC-120A                      | 782XBXCL-120A                              | 782XBXCT-120A                  | 782BXM4L-120A                      |
|                |                       | 240 Vac, 50/60 Hz | 17720               | 782XBXC-240A                      | 782XBXCL-240A                              | 782XBXCT-240A                  | 782BXM4L-240A                      |
|                |                       | 6 Vdc             | 40                  | —                                 | —                                          | 782XBXCT-6D                    | —                                  |
|                |                       | 12 Vdc            | 160                 | 782XBXC-12D                       | 782XBXCL-12D                               | 782XBXCT-12D                   | 782BXM4L-12D                       |
|                |                       | 24 Vdc            | 640                 | 782XBXC-24D                       | 782XBXCL-24D                               | 782XBXCT-24D                   | 782BXM4L-24D                       |
|                |                       | 48 Vdc            | 2560                | 782XBXC-48D                       | 782XBXCL-48D                               | 782XBXCT-48D                   | 782BXM4L-48D                       |
|                |                       | 110 Vdc           | 13440               | 782XBXC-110D                      | 782XBXCL-110D                              | 782XBXCT-110D                  | 782BXM4L-110D                      |

## Part Number Explanation



# Magnecraft General Purpose Relays

## 782 Power Series

### DPDT 15 A

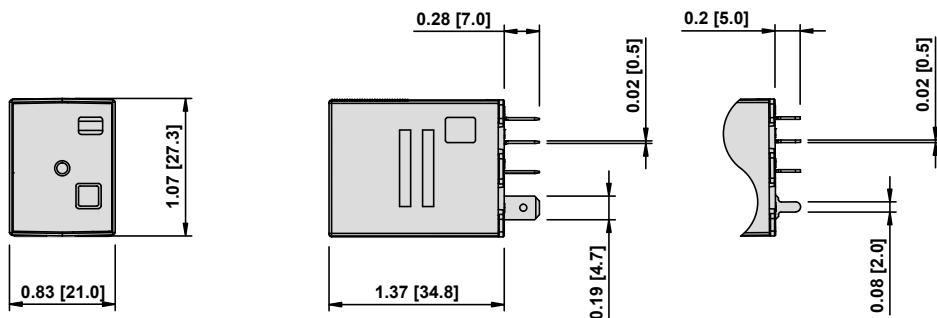
## Specifications

| Part Number                                                             | 782XBXC / CL / M4L                                                                                                                                                                                                                            | 782XBXCT                           |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Contact Characteristics</b>                                          |                                                                                                                                                                                                                                               |                                    |
| Terminal Style                                                          | Blade                                                                                                                                                                                                                                         | PC Terminals                       |
| Contact Material                                                        | Silver Alloy                                                                                                                                                                                                                                  |                                    |
| Contact Configuration                                                   | DPDT                                                                                                                                                                                                                                          |                                    |
| Carrying Current                                                        | 15 A                                                                                                                                                                                                                                          |                                    |
| Maximum Switching Voltage                                               | IEC: 250 Vac / 28 Vdc<br>UL/CSA: 300 Vac / 28 Vdc                                                                                                                                                                                             |                                    |
| Rated Switching Current at Voltage<br>(Conforming to IEC AC-1 and DC-1) | NO: 15 A at 250 Vac, NC: 7.5 A at 250 Vac<br>NO: 15 A at 28 Vdc, NC: 7.5 A at 28 Vdc                                                                                                                                                          |                                    |
| Rated Switching Current at Voltage<br>(Conforming to UL)                | <b>Resistive:</b> 15 A at 277 Vac, 50/60 Hz, 100 k cycles<br>15 A at 28 Vdc, 100 k cycles<br><b>Motor:</b> 1/2 hp at 120 Vac, 1 k cycles<br>1 hp at 277 Vac, 1 k cycles<br><b>Pilot Duty:</b> B300                                            |                                    |
| Rated Switching Current at Voltage<br>(Conforming to CSA)               | <b>Resistive:</b> 15 A at 150 Vac, 50/60 Hz, 100 k cycles<br>10 A at 277 Vac, 50/60 Hz, 100 k cycles<br>15 A at 28 Vdc, 100 k cycles<br><b>Motor:</b> 1/2 hp at 120 Vac, 1 k cycles<br>1 hp at 277 Vac, 1 k cycles<br><b>Pilot Duty:</b> B300 |                                    |
| Minimum Switching Requirement                                           | 10 mA at 17 Vdc                                                                                                                                                                                                                               |                                    |
| <b>Coil Characteristics</b>                                             |                                                                                                                                                                                                                                               |                                    |
| Maximum Operating Voltage                                               | 110% (AC/DC)                                                                                                                                                                                                                                  |                                    |
| Maximum Pickup Voltage                                                  | 85% (AC); 80% (DC)                                                                                                                                                                                                                            |                                    |
| Drop-out Voltage Threshold                                              | 15% (AC); 10% (DC)                                                                                                                                                                                                                            |                                    |
| Average Consumption                                                     | Standard: 1.1 VA (AC); 0.85 W (DC)<br>With LED: 1.4 VA (AC); 1.15 W (DC)                                                                                                                                                                      | Standard: 1.1 VA (AC); 0.85 W (DC) |
| <b>General Characteristics</b>                                          |                                                                                                                                                                                                                                               |                                    |
| Electrical Life at Rated Load                                           | 100,000 operations                                                                                                                                                                                                                            |                                    |
| Mechanical Life (Unpowered)                                             | 10,000,000 operations                                                                                                                                                                                                                         |                                    |
| Operating Time (Response Time)                                          | 20 ms                                                                                                                                                                                                                                         |                                    |
| Dielectric Strength—Between Coil and Contact (AC)                       | 2000 V (rms)                                                                                                                                                                                                                                  |                                    |
| Dielectric Strength—Between Poles (AC)                                  | 2000 V (rms)                                                                                                                                                                                                                                  |                                    |
| Dielectric Strength—Between Contacts (AC)                               | 1500 V (rms)                                                                                                                                                                                                                                  |                                    |
| Ambient Air Temperature around the Device—<br>Storage                   | –40 to +85 °C (–40 to +185 °F)                                                                                                                                                                                                                |                                    |
| Ambient Air Temperature around the Device—<br>Operation                 | –40 to +55 °C (–40 to +131 °F)                                                                                                                                                                                                                |                                    |
| Vibration Resistance—In Operation                                       | ±1 mm (10–35 Hz) and 3 gn (35–150 Hz)                                                                                                                                                                                                         |                                    |
| Shock Resistance                                                        | 15 gn                                                                                                                                                                                                                                         |                                    |
| Degree of Protection (Housing Only)                                     | IP40                                                                                                                                                                                                                                          |                                    |
| Weight                                                                  | 36 g (1.27 oz)                                                                                                                                                                                                                                |                                    |
| Agency Approvals                                                        | UL with socket, UR (E164862), CE, CSA (225619), RoHS                                                                                                                                                                                          |                                    |

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

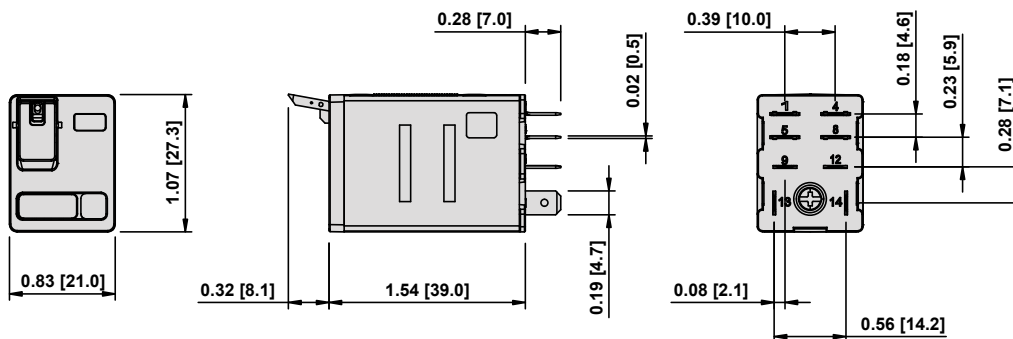
## Dimensions, in. (mm)

### Clear Cover Dimensions

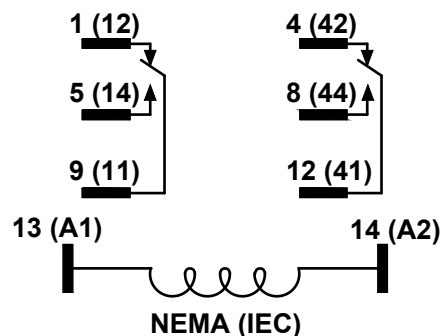


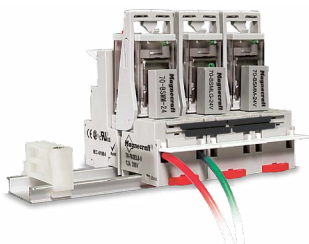
PC Terminals Dimensions

### Full-Feature Cover Dimensions



## Wiring Diagram

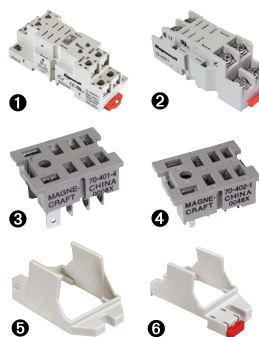




### Description

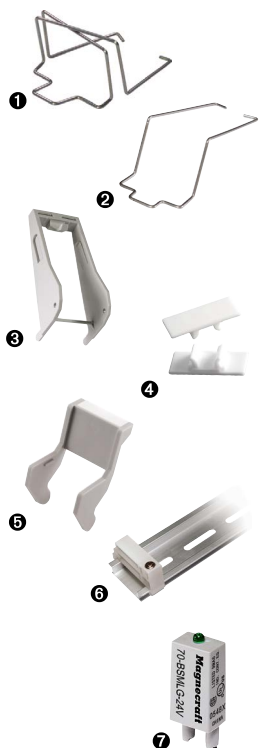
Optional sockets offer customizable, Fingersafe solutions including protection modules, hold-down clips, and ID tags. Sockets are DIN rail and panel mount compatible.

### Relay Accessories



| Description | Function                                                   | For Use with Relays | Pkg. Min. | Standard Part Number |
|-------------|------------------------------------------------------------|---------------------|-----------|----------------------|
| Socket 1    | DIN / Panel mount with screw terminals and clamping plates | 782XBX              | 10        | 70-782D8-1A          |
| Socket 2    | DIN / Panel mount with screw terminals and clamping plates |                     | 10        | 70-459-1             |
| Socket 3    | Quick Connect terminals for chassis mount                  |                     | 10        | 70-401-1             |
| Socket 4    | Printed circuit terminals for PCB mount                    |                     | 10        | 70-402-1             |
| Adapter 5   | Mount directly to panel                                    |                     | 10        | 16-782C1             |
| Adapter 6   | Mount directly to DIN rail                                 |                     | 10        | 16-782C              |

### Socket Accessories



| Description                                       | Function                                                                     | For Use with Sockets                      | Coil Voltage | Pkg. Min.   | Standard Part Number |
|---------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------|--------------|-------------|----------------------|
| Metal Spring Clip ❶ ❷                             | Secures relay in socket                                                      | 70-782D8-1A, 70-459-1, 70-401-1, 70-402-1 | –            | 10          | 16-1342              |
| Plastic Hold-Down Clip ❸                          | Secures relay in socket or ejects relay off socket                           | 70-782D8-1A                               | –            | 10          | 16-782PC-1           |
| Write-on Tag ❹                                    | Write-on tag for 16-782PC-1 hold-down clip                                   | –                                         | –            | 10          | 16-700ST-1           |
| Plastic ID Hold-Down Clip ❺                       | Secures relay in socket and provides labeling                                | 70-782D8-1A, 70-459-1, 70-401-1, 70-402-1 | –            | 10          | 16-782IDC            |
| Extruded Aluminum DIN Rail, 39.37 in. (1000 mm) ❻ | Quick installation and removal of sockets                                    | 70-782D8-1A, 70-459-1                     | –            | 10          | 16-700DIN            |
| DIN Rail End Clip ❼                               | Holds sockets firmly in place on DIN rail                                    |                                           | –            | 10          | 16-DCLIP-1           |
| Small Socket Module                               | Protection diode (protects external drive circuitry from inductive voltages) | 70-782D8-1A                               | 6 to 250 Vdc | 10          | 70-BSMD-250          |
| Small Socket Module ❼                             | LED indicator (provides coil status at a glance)                             |                                           | 24 Vac/Vdc   | 10          | 70-BSMLG-24          |
| Small Socket Module                               | MOV suppressor (protects from damaging electrical spikes)                    |                                           | 120 Vac/Vdc  | 10          | 70-BSMM-120          |
|                                                   |                                                                              |                                           | 24 Vac/Vdc   | 10          | 70-BSMM-24           |
|                                                   |                                                                              | 240 Vac/Vdc                               | 10           | 70-BSMM-240 |                      |

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

## Description

# Magnecraft General Purpose Relays

783 Series

3PDT 15 A



UL Listed when used with proper Magnecraft sockets

## Description

The 783 Series plug-in relays offer clear or full-feature covers with multiple mounting options and accessories.



783 Clear Cover

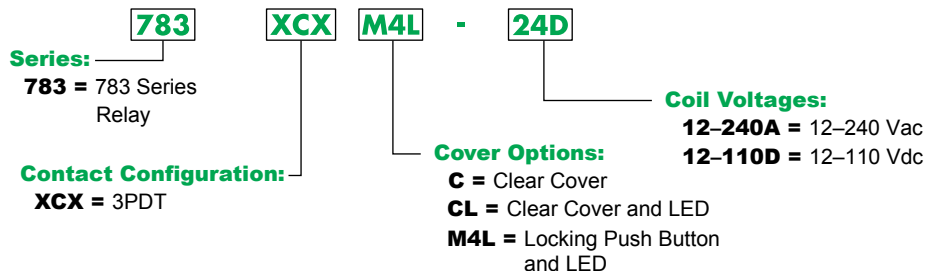


783 Full-Feature Cover

| Feature                             | Benefit                                                                                                                           |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 15 A max. switching current         | Ideal for automation panels and controls                                                                                          |
| Clear or full-feature cover options | Full-feature covers include LED indicator and locking test button                                                                 |
| 3PDT contact configuration          | Simultaneously control up to 3 separate circuits                                                                                  |
| Socket mount option                 | Simplifies installation and maintenance while also allowing the use of protection modules, hold-down clips, and other accessories |
| Gold-flashed contacts               | Reduces contact oxidation and increases shelf life                                                                                |
| Mechanical flag indicator           | Standard feature displays relay status during testing or operation                                                                |

| Contact Rating | Contact Configuration | Nominal Voltage   | Coil Resistance (Ω) | Standard Part Number: Clear Cover | Standard Part Number: Clear Cover with LED | Standard Part Number: Full-Feature |
|----------------|-----------------------|-------------------|---------------------|-----------------------------------|--------------------------------------------|------------------------------------|
| 15 A           | 3PDT                  | 12 Vac, 50/60 Hz  | 30                  | 783XCXC-12A                       | 783XCXCL-12A                               | 783XCXM4L-12A                      |
|                |                       | 24 Vac, 50/60 Hz  | 110                 | 783XCXC-24A                       | 783XCXCL-24A                               | 783XCXM4L-24A                      |
|                |                       | 48 Vac, 50/60 Hz  | 460                 | 783XCXC-48A                       | 783XCXCL-48A                               | 783XCXM4L-48A                      |
|                |                       | 120 Vac, 50/60 Hz | 2880                | 783XCXC-120A                      | 783XCXCL-120A                              | 783XCXM4L-120A                     |
|                |                       | 240 Vac, 50/60 Hz | 11300               | 783XCXC-240A                      | 783XCXCL-240A                              | 783XCXM4L-240A                     |
|                |                       | 12 Vdc            | 80                  | 783XCXC-12D                       | 783XCXCL-12D                               | 783XCXM4L-12D                      |
|                |                       | 24 Vdc            | 320                 | 783XCXC-24D                       | 783XCXCL-24D                               | 783XCXM4L-24D                      |
|                |                       | 48 Vdc            | 1280                | 783XCXC-48D                       | 783XCXCL-48D                               | 783XCXM4L-48D                      |
|                |                       | 110 Vdc           | 6720                | 783XCXC-110D                      | 783XCXCL-110D                              | 783XCXM4L-110D                     |

## Part Number Explanation



Please contact Customer Service for more information (847-441-2540).

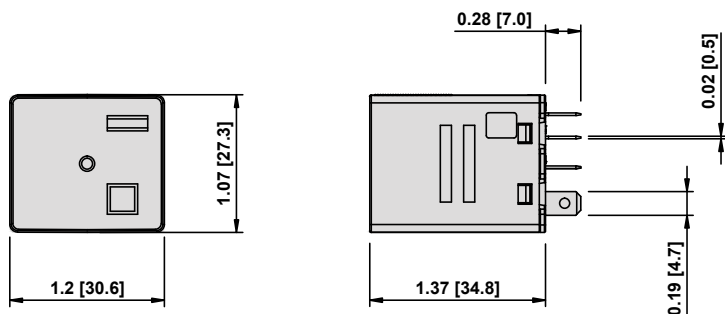
## Specifications

| Part Number                                                  | 783XCX                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contact Characteristics</b>                               |                                                                                                                                                                                                                                                                                                                   |
| Terminal Style                                               | Blade                                                                                                                                                                                                                                                                                                             |
| Contact Material                                             | Silver Alloy                                                                                                                                                                                                                                                                                                      |
| Contact Configuration                                        | 3PDT                                                                                                                                                                                                                                                                                                              |
| Carrying Current per Pole                                    | 15 A                                                                                                                                                                                                                                                                                                              |
| Maximum Switching Voltage                                    | IEC: 250 Vac / 28 Vdc<br>UL/CSA: 300 Vac / 28 Vdc                                                                                                                                                                                                                                                                 |
| Rated Switching Current<br>(Conforming to IEC AC-1 and DC-1) | NO: 15 A at 250 Vac, NC: 7.5 A at 250 Vac<br>NO: 15 A at 28 Vdc, NC: 7.5 A at 28 Vdc                                                                                                                                                                                                                              |
| Rated Switching Current<br>(Conforming to UL)                | <b>Resistive:</b> 15 A at 277 Vac, 50/60 Hz, 100 k cycles<br>15 A at 28 Vdc, 100 k cycles<br><b>Motor:</b> 1/2 hp at 120 Vac, 1 k cycles<br>1 hp at 277 Vac, 1 k cycles<br><b>Pilot Duty:</b> B300                                                                                                                |
| Rated Switching Current<br>(Conforming to CSA)               | <b>Resistive:</b> 15 A at 150 Vac, 50/60 Hz, 100 k cycles, 30 A max. total<br>10 A at 277 Vac, 50/60 Hz, 100 k cycles, 20 A max. total<br>15 A at 28 Vdc, 100 k cycles, 30 A max. total<br><b>Motor:</b> 1/2 hp at 120 Vac, 1 k cycles<br>1 hp at 277 Vac, 1 k cycles, 2 hp max. total<br><b>Pilot Duty:</b> B300 |
| Minimum Switching Requirement                                | 10 mA at 17 Vdc                                                                                                                                                                                                                                                                                                   |
| <b>Coil Characteristics</b>                                  |                                                                                                                                                                                                                                                                                                                   |
| Maximum Operating Voltage                                    | 110% (AC/DC)                                                                                                                                                                                                                                                                                                      |
| Maximum Pickup Voltage                                       | 85% (AC); 80% (DC)                                                                                                                                                                                                                                                                                                |
| Drop-out Voltage Threshold                                   | 15% (AC); 10% (DC)                                                                                                                                                                                                                                                                                                |
| Average Consumption                                          | Standard: 1.7 VA (AC); 1.5 W (DC)<br>With LED: 2.05 VA (AC); 1.85 W (DC)                                                                                                                                                                                                                                          |
| <b>General Characteristics</b>                               |                                                                                                                                                                                                                                                                                                                   |
| Electrical Life at Rated Load                                | 100,000 operations                                                                                                                                                                                                                                                                                                |
| Mechanical Life (Unpowered)                                  | 10,000,000 operations                                                                                                                                                                                                                                                                                             |
| Operating Time                                               | 20 ms                                                                                                                                                                                                                                                                                                             |
| Dielectric Strength—Between Coil and Contact (AC)            | 2000 V (rms)                                                                                                                                                                                                                                                                                                      |
| Dielectric Strength—Between Poles (AC)                       | 2000 V (rms)                                                                                                                                                                                                                                                                                                      |
| Dielectric Strength—Between Contacts (AC)                    | 1500 V (rms)                                                                                                                                                                                                                                                                                                      |
| Ambient Air Temperature around the Device—Storage            | –40 to +85 °C (–40 to +185 °F)                                                                                                                                                                                                                                                                                    |
| Ambient Air Temperature around the Device—Operation          | –40 to +55 °C (–40 to +131 °F)                                                                                                                                                                                                                                                                                    |
| Vibration Resistance—In Operation                            | ±1 mm (10–35 Hz) and 3 gn (35–150 Hz)                                                                                                                                                                                                                                                                             |
| Shock Resistance                                             | 15 gn                                                                                                                                                                                                                                                                                                             |
| Degree of Protection (Housing Only)                          | IP40                                                                                                                                                                                                                                                                                                              |
| Weight                                                       | 60 g (2.12 oz)                                                                                                                                                                                                                                                                                                    |
| Agency Approvals                                             | UL with socket, UR (E164862), CE, CSA (225619), RoHS                                                                                                                                                                                                                                                              |

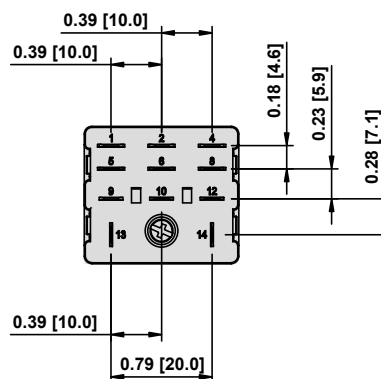
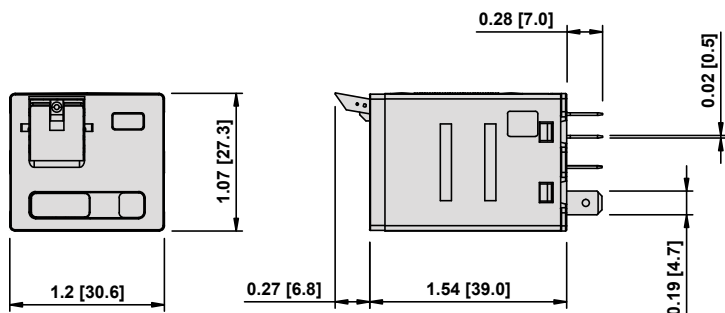
Note: Actual product performance may vary depending on application and environmental conditions.

## Dimensions, in. (mm)

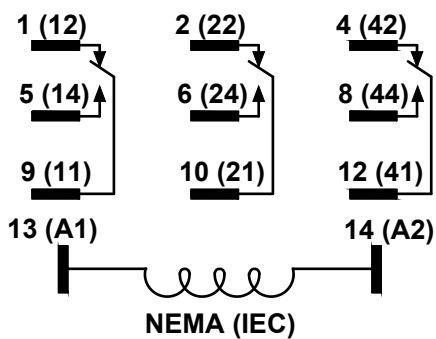
### Clear Cover Dimensions

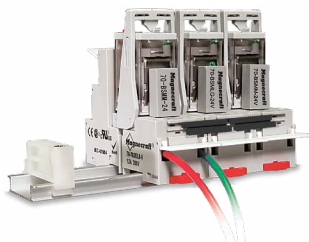


### Full-Feature Cover Dimensions



## Wiring Diagram

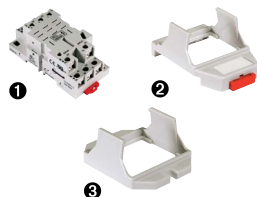




### Description

Optional sockets offer customizable, Fingersafe solutions including protection modules, hold-down clips, and ID tags. Sockets are DIN rail and panel mount compatible.

### Relay Accessories



| Description | Function                                                               | For Use with Relays | Pkg. Min. | Standard Part Number |
|-------------|------------------------------------------------------------------------|---------------------|-----------|----------------------|
| Socket ❶    | Fingersafe, DIN / Panel mount with screw terminals and clamping plates | 783XCX              | 10        | 70-783D11-1A         |
| Adapter ❷   | Mount directly to DIN rail                                             |                     | 10        | 16-783C              |
| Adapter ❸   | Mount directly to panel                                                |                     | 10        | 16-783C1             |

### Socket Accessories



| Description                                       | Function                                                                              | For Use with Sockets | Coil Voltage    | Pkg. Min. | Standard Part Number |
|---------------------------------------------------|---------------------------------------------------------------------------------------|----------------------|-----------------|-----------|----------------------|
| Metal Spring Clip ❶                               | Secures relay in socket                                                               | 70-783D11-1A         | –               | 10        | 16-783SC             |
| Plastic ID Hold-Down Clip ❷                       | Secures relay in socket and provides labeling                                         |                      | –               | 10        | 16-783IDC            |
| Extruded Aluminum DIN Rail, 39.37 in. (1000 mm) ❸ | Quick installation and removal of sockets                                             |                      | –               | 10        | 16-700DIN            |
| DIN Rail End Clip ❹                               | Holds sockets firmly in place on DIN rail                                             | –                    | –               | 10        | 16-DCLIP-1           |
| Large Socket Module                               | MOV suppressor ( <i>protects from damaging electrical spikes</i> )                    | 70-783D11-1A         | 24 Vac/Vdc      | 10        | 70-ASMM-24           |
| Large Socket Module                               | Protection diode ( <i>protects external drive circuitry from inductive voltages</i> ) |                      | 250 Vdc         | 10        | 70-ASMD-250          |
| Large Socket Module ❺                             | LED indicator ( <i>provides coil status at a glance</i> )                             |                      | 110/240 Vac/Vdc | 10        | 70-ASMLG-110/240     |
| Large Socket Module                               | RC suppressor ( <i>snubs back EMF of relay coil</i> )                                 |                      | 110/240 Vac     | 10        | 70-ASMR-110/240      |

Note: Use of an LED or RC socket module can increase coil power draw by up to 10%.

## Description

# Magnecraft General Purpose Relays

784 Series

4PDT 15 A



UL Listed when used with proper Magnecraft sockets



784 Clear Cover



784 Full-Feature Cover

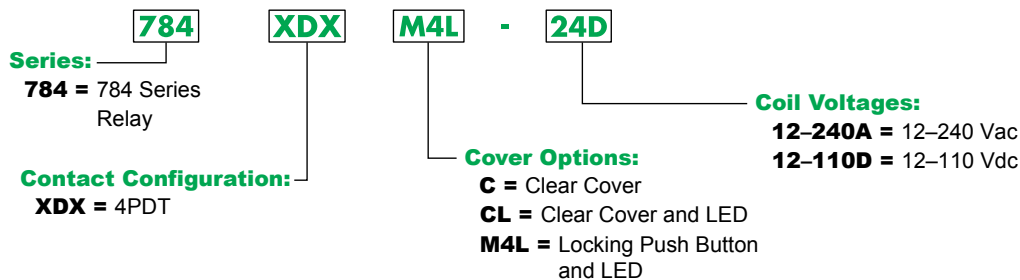
## Description

The 784 Series plug-in relays offer clear or full-feature covers with multiple mounting options and accessories.

| Feature                             | Benefit                                                                                                                           |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 15 A max. switching current         | Ideal for automation panels and controls                                                                                          |
| Clear or full-feature cover options | Full-feature covers include LED indicator and locking test button                                                                 |
| 4PDT contact configuration          | Simultaneously control up to 4 separate circuits                                                                                  |
| Socket mount option                 | Simplifies installation and maintenance while also allowing the use of protection modules, hold-down clips, and other accessories |
| Gold-flashed contacts               | Reduces contact oxidation and increases shelf life                                                                                |
| Mechanical flag indicator           | Standard feature displays relay status during testing or operation                                                                |

| Contact Rating | Contact Configuration | Nominal Voltage   | Coil Resistance (Ω) | Standard Part Number: Clear Cover | Standard Part Number: Clear Cover with LED | Standard Part Number: Full-Feature |
|----------------|-----------------------|-------------------|---------------------|-----------------------------------|--------------------------------------------|------------------------------------|
| 15 A           | 3PDT                  | 12 Vac, 50/60 Hz  | 20                  | 784XDXC-12A                       | 784DXCL-12A                                | 784DXM4L-12A                       |
|                |                       | 24 Vac, 50/60 Hz  | 80                  | 784XDXC-24A                       | 784DXCL-24A                                | 784DXM4L-24A                       |
|                |                       | 48 Vac, 50/60 Hz  | 310                 | 784XDXC-48A                       | 784DXCL-48A                                | 784DXM4L-48A                       |
|                |                       | 120 Vac, 50/60 Hz | 2100                | 784XDXC-120A                      | 784DXCL-120A                               | 784DXM4L-120A                      |
|                |                       | 240 Vac, 50/60 Hz | 8000                | 784XDXC-240A                      | 784DXCL-240A                               | 784DXM4L-240A                      |
|                |                       | 12 Vdc            | 76                  | 784XDXC-12D                       | 784DXCL-12D                                | 784DXM4L-12D                       |
|                |                       | 24 Vdc            | 303                 | 784XDXC-24D                       | 784DXCL-24D                                | 784DXM4L-24D                       |
|                |                       | 48 Vdc            | 1210                | 784XDXC-48D                       | 784DXCL-48D                                | 784DXM4L-48D                       |
|                |                       | 110 Vdc           | 6370                | 784XDXC-110D                      | 784DXCL-110D                               | 784DXM4L-110D                      |

## Part Number Explanation



Please contact Customer Service for more information (847-441-2540).

# Magnecraft General Purpose Relays

## 784 Series

### 4PDT 15 A

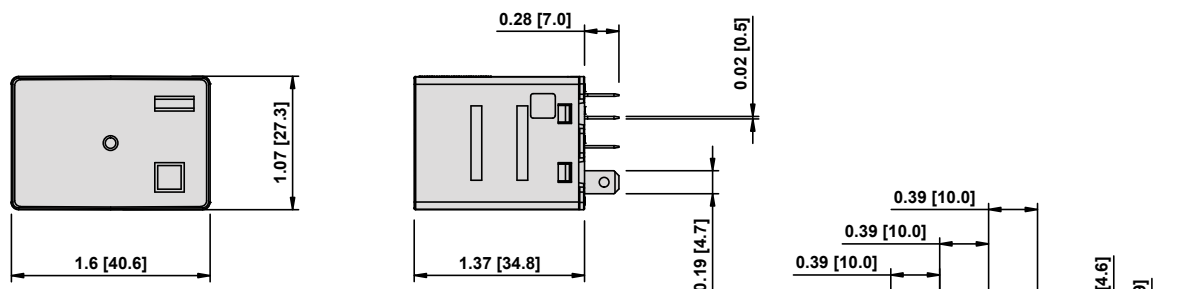
## Specifications

| Part Number                                                  | 784XDX                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contact Characteristics</b>                               |                                                                                                                                                                                                                                                                                                                   |
| Terminal Style                                               | Blade                                                                                                                                                                                                                                                                                                             |
| Contact Material                                             | Silver Alloy                                                                                                                                                                                                                                                                                                      |
| Contact Configuration                                        | 4PDT                                                                                                                                                                                                                                                                                                              |
| Carrying Current per Pole                                    | 15 A                                                                                                                                                                                                                                                                                                              |
| Maximum Switching Voltage                                    | IEC: 250 Vac / 28 Vdc<br>UL/CSA: 300 Vac / 28 Vdc                                                                                                                                                                                                                                                                 |
| Rated Switching Current<br>(Conforming to IEC AC-1 and DC-1) | NO: 15 A at 250 Vac, NC: 7.5 A at 250 Vac<br>NO: 15 A at 28 Vdc, NC: 7.5 A at 28 Vdc                                                                                                                                                                                                                              |
| Rated Switching Current<br>(Conforming to UL)                | <b>Resistive:</b> 15 A at 277 Vac, 50/60 Hz, 100 k cycles<br>15 A at 28 Vdc, 100 k cycles<br><b>Motor:</b> 1/2 hp at 120 Vac, 1 k cycles<br>1 hp at 277 Vac, 1 k cycles<br><b>Pilot Duty:</b> B300                                                                                                                |
| Rated Switching Current<br>(Conforming to CSA)               | <b>Resistive:</b> 15 A at 150 Vac, 50/60 Hz, 100 k cycles, 30 A max. total<br>10 A at 277 Vac, 50/60 Hz, 100 k cycles, 20 A max. total<br>15 A at 28 Vdc, 100 k cycles, 30 A max. total<br><b>Motor:</b> 1/2 hp at 120 Vac, 1 k cycles<br>1 hp at 277 Vac, 1 k cycles, 2 hp max. total<br><b>Pilot Duty:</b> B300 |
| Minimum Switching Requirement                                | 10 mA at 17 Vdc                                                                                                                                                                                                                                                                                                   |
| <b>Coil Characteristics</b>                                  |                                                                                                                                                                                                                                                                                                                   |
| Maximum Operating Voltage                                    | 110% (AC/DC)                                                                                                                                                                                                                                                                                                      |
| Maximum Pickup Voltage                                       | 85% (AC); 80% (DC)                                                                                                                                                                                                                                                                                                |
| Drop-out Voltage Threshold                                   | 15% (AC); 10% (DC)                                                                                                                                                                                                                                                                                                |
| Average Consumption                                          | Standard: 2.5 VA (AC); 1.6 W (DC)<br>With LED: 2.85 VA (AC); 1.95 W (DC)                                                                                                                                                                                                                                          |
| <b>General Characteristics</b>                               |                                                                                                                                                                                                                                                                                                                   |
| Electrical Life at Rated Load                                | 100,000 operations                                                                                                                                                                                                                                                                                                |
| Mechanical Life (Unpowered)                                  | 10,000,000 operations                                                                                                                                                                                                                                                                                             |
| Operating Time                                               | 20 ms                                                                                                                                                                                                                                                                                                             |
| Dielectric Strength—Between Coil and Contact (AC)            | 2000 V (rms)                                                                                                                                                                                                                                                                                                      |
| Dielectric Strength—Between Poles (AC)                       | 2000 V (rms)                                                                                                                                                                                                                                                                                                      |
| Dielectric Strength—Between Contacts (AC)                    | 1500 V (rms)                                                                                                                                                                                                                                                                                                      |
| Ambient Air Temperature around the Device—Storage            | –40 to +85 °C (–40 to +185 °F)                                                                                                                                                                                                                                                                                    |
| Ambient Air Temperature around the Device—Operation          | –40 to +55 °C (–40 to +131 °F)                                                                                                                                                                                                                                                                                    |
| Vibration Resistance—In Operation                            | ±1 mm (10–35 Hz) and 3 gn (35–150 Hz)                                                                                                                                                                                                                                                                             |
| Shock Resistance                                             | 15 gn                                                                                                                                                                                                                                                                                                             |
| Degree of Protection (Housing Only)                          | IP40                                                                                                                                                                                                                                                                                                              |
| Weight                                                       | 80 g (2.82 oz)                                                                                                                                                                                                                                                                                                    |
| Agency Approvals                                             | UL with socket, UR (E164862), CE, CSA (225619), RoHS                                                                                                                                                                                                                                                              |

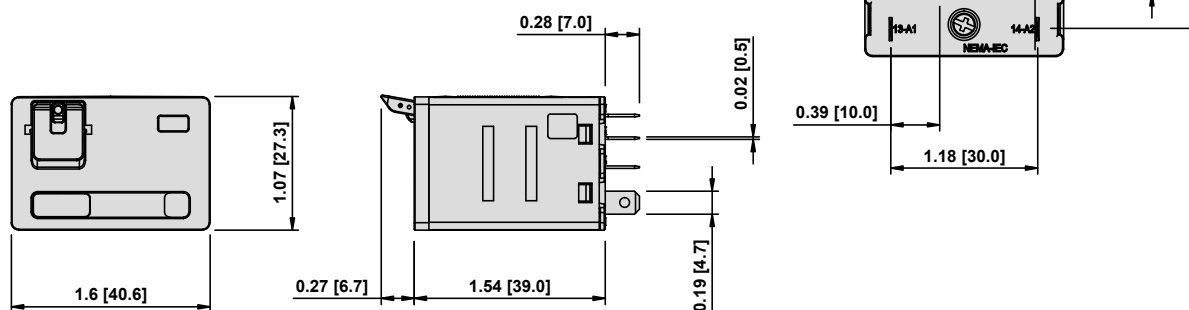
Note: Actual product performance may vary depending on application and environmental conditions.

## Dimensions, in. (mm)

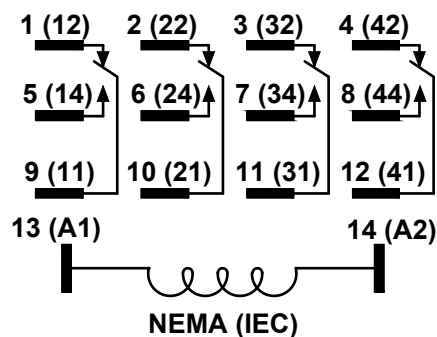
### Clear Cover Dimensions

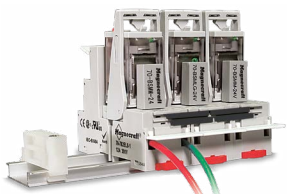


### Full-Feature Cover Dimensions



## Wiring Diagram

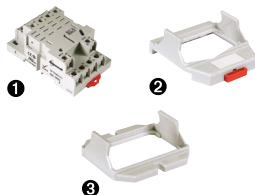




Description

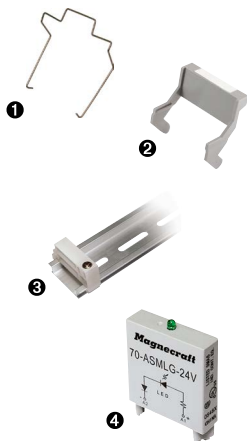
Optional sockets offer customizable, Fingersafe solutions including protection modules, hold-down clips, and ID tags. Sockets are DIN rail and panel mount compatible.

Relay Accessories



| Description | Function                                                               | For Use with Relays | Pkg. Min. | Standard Part Number |
|-------------|------------------------------------------------------------------------|---------------------|-----------|----------------------|
| Socket 1    | Fingersafe, DIN / Panel mount with screw terminals and clamping plates | 784XDX              | 10        | 70-784D14-1          |
| Adapter 2   | DIN rail adapter                                                       |                     | 10        | 16-784C              |
| Adapter 3   | Flange mount adapter                                                   |                     | 10        | 16-784C1             |

Socket Accessories



| Description                                       | Function                                                                              | For Use with Socket | Coil Voltage    | Pkg. Min. | Standard Part Number |
|---------------------------------------------------|---------------------------------------------------------------------------------------|---------------------|-----------------|-----------|----------------------|
| Metal Spring Clip 1                               | Secures relay in socket                                                               | 70-784D14-1         | –               | 10        | 16-784SC             |
| Plastic ID Hold-Down Clip 2                       | Secures relay in socket and provides labeling                                         |                     | –               | 10        | 16-784IDC            |
| Extruded Aluminum DIN Rail, 39.37 in. (1000 mm) 3 | Quick installation and removal of sockets                                             |                     | –               | 10        | 16-700DIN            |
| DIN Rail End Clip 3                               | Holds sockets firmly in place on DIN rail                                             | –                   | –               | 10        | 16-DCLIP-1           |
| Large Socket Module                               | MOV suppressor ( <i>protects from damaging electrical spikes</i> )                    | 70-784D14-1         | 24 Vac/Vdc      | 10        | 70-ASMM-24           |
| Large Socket Module                               | Protection diode ( <i>protects external drive circuitry from inductive voltages</i> ) |                     | 250 Vdc         | 10        | 70-ASMD-250          |
| Large Socket Module 4                             | LED indicator ( <i>provides coil status at a glance</i> )                             |                     | 110/240 Vac/Vdc | 10        | 70-ASMLG-110/240     |
| Large Socket Module                               | RC suppressor ( <i>snubs back EMF of relay coil</i> )                                 |                     | 110/240 Vac     | 10        | 70-ASMR-110/240      |

Note: Use of an LED or RC socket module can increase coil power draw by up to 10%.

## Description

# Magnecraft General Purpose Relays

## 750R Series

DPDT and 3DPT, 10 A



UL Listed when used with proper Magnecraft sockets



750R Clear Cover



750R Full-Feature Cover

## Description

The 750R series octal base, plug-in relays offer clear or full-feature covers with multiple mounting options and accessories.

| Feature                              | Benefit                                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Octal style mounting                 | Robust and historically proven mounting platform that provides excellent structural support                                       |
| 10 A max. switching current          | Ideal for automation panels and controls                                                                                          |
| Clear or full-feature cover options  | Full-feature covers include LED indicator and locking test button                                                                 |
| DPDT and 3DPT contact configurations | Simultaneously control separate circuits                                                                                          |
| Socket mount option                  | Simplifies installation and maintenance while also allowing the use of protection modules, hold-down clips, and other accessories |
| Gold-flashed contacts                | Reduces contact oxidation and increases shelf life                                                                                |
| Mechanical flag indicator            | Standard feature displays relay status during testing or operation                                                                |

| Contact Rating | Contact Configuration | Nominal Voltage   | Coil Resistance (Ω) | Standard Part Number: Clear Cover | Standard Part Number: Clear Cover with LED | Standard Part Number: Full-Feature |
|----------------|-----------------------|-------------------|---------------------|-----------------------------------|--------------------------------------------|------------------------------------|
| 10 A           | DPDT                  | 6 Vac, 50/60 Hz   | 3.9                 | 750XBXRC-6A                       | —                                          | —                                  |
|                |                       | 12 Vac, 50/60 Hz  | 16.9                | 750XBXRC-12A                      | 750XBXRCL-12A                              | 750XBXRM4L-12A                     |
|                |                       | 24 Vac, 50/60 Hz  | 72                  | 750XBXRC-24A                      | 750XBXRCL-24A                              | 750XBXRM4L-24A                     |
|                |                       | 48 Vac, 50/60 Hz  | 290                 | —                                 | —                                          | 750XBXRM4L-48A                     |
|                |                       | 120 Vac, 50/60 Hz | 1700                | 750XBXRC-120A                     | 750XBXRCL-120A                             | 750XBXRM4L-120A                    |
|                |                       | 240 Vac, 50/60 Hz | 6800                | 750XBXRC-240A                     | 750XBXRCL-240A                             | 750XBXRM4L-240A                    |
|                |                       | 6 Vdc             | 3.9                 | 750XBXRC-6D                       | —                                          | 750XBXRM4L-6D                      |
|                |                       | 12 Vdc            | 120                 | 750XBXRC-12D                      | 750XBXRCL-12D                              | 750XBXRM4L-12D                     |
|                |                       | 24 Vdc            | 470                 | 750XBXRC-24D                      | 750XBXRCL-24D                              | 750XBXRM4L-24D                     |
|                |                       | 48 Vdc            | 1800                | 750XBXRC-48D                      | 750XBXRCL-48D                              | 750XBXRM4L-48D                     |
|                |                       | 110 Vdc           | 7300                | 750XBXRC-110D                     | 750XBXRCL-110D                             | 750XBXRM4L-110D                    |
|                | 3DPT                  | 24 Vac, 50/60 Hz  | 72                  | 750XCXRC-24A                      | 750XCXRCL-24A                              | 750XCXRM4L-24A                     |
|                |                       | 48 Vac, 50/60 Hz  | 290                 | —                                 | —                                          | 750XCXRM4L-48A                     |
|                |                       | 120 Vac, 50/60 Hz | 1700                | 750XCXRC-120A                     | 750XCXRCL-120A                             | 750XCXRM4L-120A                    |
|                |                       | 240 Vac, 50/60 Hz | 6800                | 750XCXRC-240A                     | 750XCXRCL-240A                             | 750XCXRM4L-240A                    |
|                |                       | 12 Vdc            | 120                 | 750XCXRC-12D                      | 750XCXRCL-12D                              | 750XCXRM4L-12D                     |
|                |                       | 24 Vdc            | 470                 | 750XCXRC-24D                      | 750XCXRCL-24D                              | 750XCXRM4L-24D                     |
|                |                       | 48 Vdc            | 1800                | 750XCXRC-48D                      | 750XCXRCL-48D                              | 750XCXRM4L-48D                     |
|                |                       | 110 Vdc           | 7300                | 750XCXRC-110D                     | 750XCXRCL-110D                             | 750XCXRM4L-110D                    |

## Part Number Explanation

**Series:** **750**

**750** = 750R Series Relay

**Contact Configuration:**

**XBXR** = DPDT

**XCXR** = 3DPT

**M4L** - **24D**

**Cover Options:**

**C** = Clear Cover

**CL** = Clear Cover and LED

**M4L** = Locking Push Button and LED

**Coil Voltages:**

**6-240A** = 6–240 Vac

**6-110D** = 6–110 Vdc

Please contact Customer Service for more information (847-441-2540).

# Magnecraft General Purpose Relays

## 750R Series

### DPDT and 3DPT, 10 A

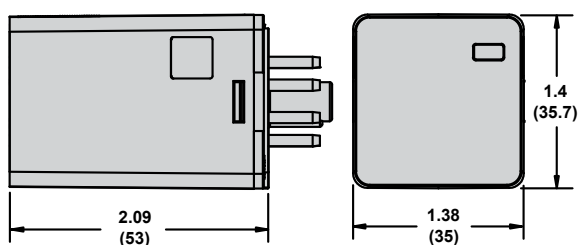
## Specifications

| Part Number                                                  | 750XBXR                                                                                                                                                                                                        | 750XCXR                                                                                                                                                                                                        |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contact Characteristics</b>                               |                                                                                                                                                                                                                |                                                                                                                                                                                                                |
| Terminal Style                                               | Octal                                                                                                                                                                                                          | Octal                                                                                                                                                                                                          |
| Contact Material                                             | Silver Alloy                                                                                                                                                                                                   | Silver Alloy                                                                                                                                                                                                   |
| Contact Configuration                                        | DPDT                                                                                                                                                                                                           | 3PDT                                                                                                                                                                                                           |
| Carrying Current                                             | 10 A                                                                                                                                                                                                           | 10 A                                                                                                                                                                                                           |
| Maximum Switching Voltage                                    | IEC: 250 Vac / 28 Vdc<br>UL/CSA: 300 Vac / 30 Vdc                                                                                                                                                              | IEC: 250 Vac / 28 Vdc<br>UL/CSA: 300 Vac / 30 Vdc                                                                                                                                                              |
| Rated Switching Current<br>(Conforming to IEC AC-1 and DC-1) | NO: 10 A at 250 Vac / 28 Vdc<br>NC: 5 A at 250 Vac / 28 Vdc                                                                                                                                                    | NO: 10 A at 250 Vac / 28 Vdc<br>NC: 5 A at 250 Vac / 28 Vdc                                                                                                                                                    |
| Rated Switching Current<br>(Conforming to UL)                | <b>Resistive:</b> 10 A at 277 Vac, 50/60 Hz, 200 k cycles<br>10 A at 30 Vdc, 200 k cycles<br><b>Motor:</b> 1/3 hp at 120 Vac, 6 k cycles<br>1 hp at 277 Vac, 6 k cycles<br><b>Pilot Duty:</b> B300, 6 k cycles | <b>Resistive:</b> 10 A at 277 Vac, 50/60 Hz, 200 k cycles<br>10 A at 30 Vdc, 200 k cycles<br><b>Motor:</b> 1/3 hp at 120 Vac, 6 k cycles<br>1 hp at 277 Vac, 6 k cycles<br><b>Pilot Duty:</b> B300, 6 k cycles |
| Minimum Switching Requirement                                | 10 mA at 17 Vdc                                                                                                                                                                                                | 10 mA at 17 Vdc                                                                                                                                                                                                |
| <b>Coil Characteristics</b>                                  |                                                                                                                                                                                                                |                                                                                                                                                                                                                |
| Maximum Operating Voltage                                    | 110% (AC/DC)                                                                                                                                                                                                   |                                                                                                                                                                                                                |
| Maximum Pickup Voltage                                       | 85% (AC); 80% (DC)                                                                                                                                                                                             |                                                                                                                                                                                                                |
| Drop-out Voltage Threshold                                   | 15% (AC); 10% (DC)                                                                                                                                                                                             |                                                                                                                                                                                                                |
| Average Consumption                                          | 3 VA (AC); 1.4 W (DC)                                                                                                                                                                                          |                                                                                                                                                                                                                |
| <b>General Characteristics</b>                               |                                                                                                                                                                                                                |                                                                                                                                                                                                                |
| Electrical Life at Rated Load                                | 100,000 operations                                                                                                                                                                                             |                                                                                                                                                                                                                |
| Mechanical Life                                              | 5,000,000 operations                                                                                                                                                                                           |                                                                                                                                                                                                                |
| Operating Time                                               | 20 ms                                                                                                                                                                                                          |                                                                                                                                                                                                                |
| Dielectric Strength—Between Coil and Contact (AC)            | 2500 V (rms)                                                                                                                                                                                                   |                                                                                                                                                                                                                |
| Dielectric Strength—Between Poles (AC)                       | 2000 V (rms)                                                                                                                                                                                                   |                                                                                                                                                                                                                |
| Dielectric Strength—Between Contacts (AC)                    | 1500 V (rms)                                                                                                                                                                                                   |                                                                                                                                                                                                                |
| Ambient Air Temperature around the Device—Storage            | –40 to +85 °C (–40 to +185°F)                                                                                                                                                                                  |                                                                                                                                                                                                                |
| Ambient Air Temperature around the Device—Operation          | –40 to +55 °C (–40 to +131°F)                                                                                                                                                                                  |                                                                                                                                                                                                                |
| Vibration Resistance—In Operation                            | ±1 mm (10–35 Hz) and 3 gn (35–150 Hz)                                                                                                                                                                          |                                                                                                                                                                                                                |
| Shock Resistance                                             | 10 gn                                                                                                                                                                                                          |                                                                                                                                                                                                                |
| Degree of Protection (Housing Only)                          | IP40                                                                                                                                                                                                           |                                                                                                                                                                                                                |
| Weight                                                       | 83 g (2.93 oz)                                                                                                                                                                                                 |                                                                                                                                                                                                                |
| Agency Approvals                                             | UL with socket, UR (E164862), CE, CSA (225619), RoHS                                                                                                                                                           |                                                                                                                                                                                                                |

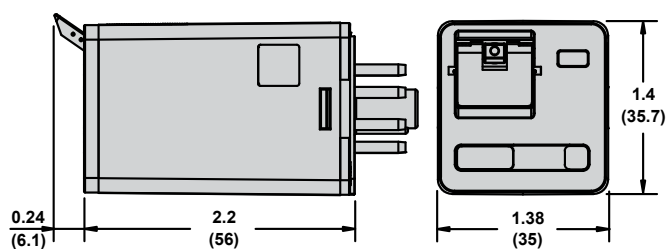
Note: Actual product performance may vary depending on application and environmental conditions.

## Dimensions, in. (mm)

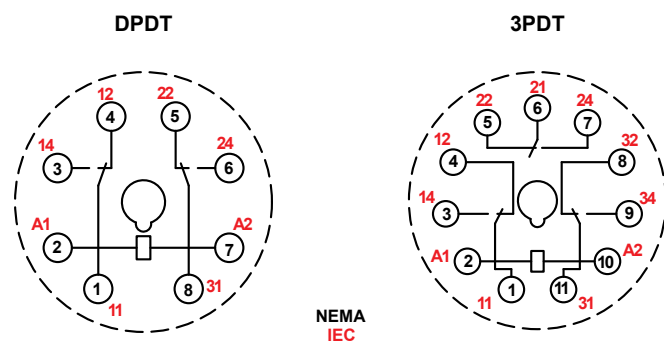
### Clear Cover Dimensions



### Full-Feature Cover Dimensions

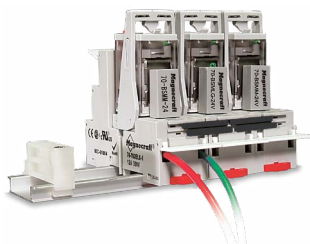


## Wiring Diagrams



# Magnecraft General Purpose Relays

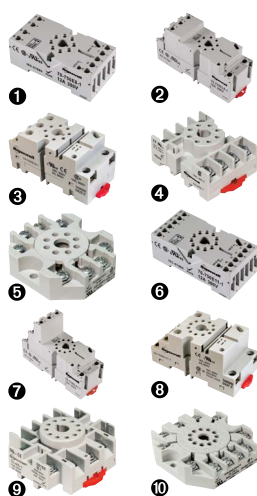
## 750R Series Accessories



### Description

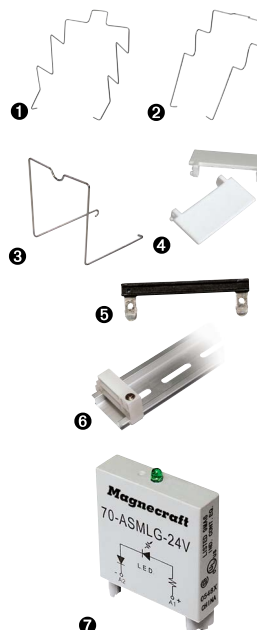
Optional sockets offer customizable, Fingersafe solutions including protection modules, hold-down clips, and ID tags. Sockets are DIN rail and panel mount compatible.

### Relay Accessories



| Description | Function                                                     | For Use with Relays | Pkg. Min. | Standard Part Number |
|-------------|--------------------------------------------------------------|---------------------|-----------|----------------------|
| Socket 1    | DIN / Panel mount, module compatible                         | 750XBXR             | 10        | 70-750E8-1           |
| Socket 2    | DIN / Panel mount with elevator terminals, module compatible |                     | 10        | 70-750EL8-1          |
| Socket 3    | DIN / Panel mount, module compatible                         |                     | 10        | 70-750DL8-1          |
| Socket 4    | DIN / Panel mount with screw terminals and clamping plates   |                     | 10        | 70-464-1             |
| Socket 5    | Panel mount with screw terminals and clamping plates         |                     | 10        | 70-169-1             |
| Socket 6    | DIN / Panel mount with elevator terminals, module compatible | 750XCXR             | 10        | 70-750E11-1          |
| Socket 7    | DIN / Panel mount with elevator terminals                    |                     | 10        | 70-750EL11-1         |
| Socket 8    | DIN / Panel mount, module compatible                         |                     | 10        | 70-750DL11-1         |
| Socket 9    | DIN / Panel mount with screw terminals and clamping plates   |                     | 10        | 70-465-1             |
| Socket 10   | Panel mount with screw terminals and clamping plates         |                     | 10        | 70-170-1             |

### Socket Accessories



| Description                                       | Function                                                                     | For Use with Sockets                                                          | Coil Voltage    | Pkg. Min. | Standard Part Number |
|---------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------|-----------|----------------------|
| Metal Spring Clip 1                               | Secures relay in socket                                                      | 70-750EL8-1, 70-750E8-1, 70-750E11-1, 70-464-1                                | —               | 10        | 16-1351              |
| Metal Spring Clip 2                               | Secures relay in socket                                                      | 70-750E8-1, 70-750DL8-1, 70-750E11-1, 70-464-1                                | —               | 10        | 16-1344              |
| Metal Spring Clip 3                               | Secures relay in socket                                                      | 70-750DL8-1                                                                   | —               | 10        | 16-1332              |
| Plastic ID Tag 4                                  | Write-on plastic labels                                                      | 70-750E8-1, 70-750EL8-1, 70-750DL8-1, 70-750E11-1, 70-750EL11, 70-750DL11-1   | —               | 10        | 16-750/788FT-1       |
| Insulated Coil Bus Jumper System 5                | Wireless socket connection                                                   | 70-750EL8-1, 70-750E8-1, 70-750DL8-1, 70-750E11-1, 70-464-1, 70-465-1         | —               | 10        | 16-750/788CBJ-1      |
| Extruded Aluminum DIN Rail, 39.37 in. (1000 mm) 6 | Quick installation and removal of sockets                                    | —                                                                             | —               | 10        | 16-700DIN            |
| DIN Rail End Clip 6                               | Plastic end clip with locking screw                                          | —                                                                             | —               | 10        | 16-DCLIP-1           |
| Large Socket Module                               | MOV suppressor (protects from damaging electrical spikes)                    | 70-750E8-1, 70-750EL8-1, 70-750DL8-1, 70-750E11-1, 70-750EL11-1, 70-750DL11-1 | 24 Vac/Vdc      | 10        | 70-ASMM-24           |
| Large Socket Module                               | Protection diode (protects external drive circuitry from inductive voltages) |                                                                               | 250 Vdc         | 10        | 70-ASMD-250          |
| Large Socket Module 7                             | LED indicator (provides coil status at a glance)                             |                                                                               | 110/240 Vac/Vdc | 10        | 70-ASMLG-110/240     |
| Large Socket Module                               | RC suppressor (snubs back EMF of relay coil)                                 |                                                                               | 110/240 Vac     | 10        | 70-ASMR-110/240      |

Note: Use of an LED or RC socket module can increase coil power draw by up to 10%.

## Description

# Magnecraft General Purpose Relays

## 788R Series

DPDT and 3PDT 10 A



UL Listed when used with proper Magnecraft sockets



7885 Clear Cover



7885 Full-Feature Cover

## Description

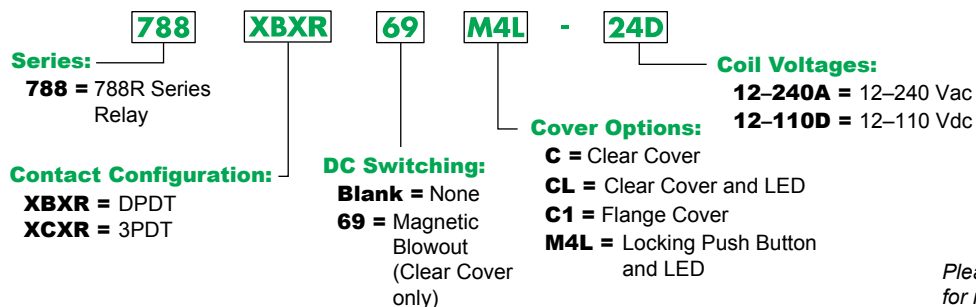
The 788R Series square base, plug-in relays offer clear, full-feature, top flange, and side flange covers as well as optional sockets and accessories.

| Feature                              | Benefit                                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 10 A max. switching current          | Ideal for automation panels and controls                                                                                          |
| Clear or full-feature cover options  | Full-feature covers include LED indicator and locking test button                                                                 |
| DPDT and 3PDT contact configurations | Simultaneously control separate circuits                                                                                          |
| Socket mount option                  | Simplifies installation and maintenance while also allowing the use of protection modules, hold-down clips, and other accessories |
| Gold-flashed contacts                | Reduces contact oxidation and increases shelf life                                                                                |
| Mechanical flag indicator            | Standard feature displays relay status during testing or operation                                                                |

| Contact Rating | Contact Configuration | Nominal Voltage   | Coil Resistance (Ω) | Standard Part Number: Clear Cover | Standard Part Number: Clear Cover with LED | Standard Part Number: Flange Mount | Standard Part Number: Full-Feature |
|----------------|-----------------------|-------------------|---------------------|-----------------------------------|--------------------------------------------|------------------------------------|------------------------------------|
| 10 A           | DPDT                  | 24 Vac, 50/60 Hz  | 72                  | 788XBXRC-24A                      | 788XBXRCL-24A                              | 788XBXRC1-24A                      | 788XBXRM4L-24A                     |
|                |                       | 48 Vac, 50/60 Hz  | 290                 | —                                 | —                                          | —                                  | 788XBXRM4L-48A                     |
|                |                       | 120 Vac, 50/60 Hz | 1700                | 788XBXRC-120A                     | 788XBXRCL-120A                             | 788XBXRC1-120A                     | 788XBXRM4L-120A                    |
|                |                       | 240 Vac, 50/60 Hz | 6800                | 788XBXRC-240A                     | 788XBXRCL-240A                             | 788XBXRC1-240A                     | 788XBXRM4L-240A                    |
|                |                       | 12 Vdc            | 120                 | 788XBXRC-12D                      | 788XBXRCL-12D                              | 788XBXRC1-12D                      | 788XBXRM4L-12D                     |
|                |                       | 24 Vdc            | 470                 | 788XBXRC-24D                      | 788XBXRCL-24D                              | 788XBXRC1-24D                      | 788XBXRM4L-24D                     |
|                |                       | 48 Vdc            | 1800                | 788XBXRC-48D                      | 788XBXRCL-48D                              | 788XBXRC1-48D                      | 788XBXRM4L-48D                     |
|                |                       | 110 Vdc           | 7300                | 788XBXRC-110D                     | 788XBXRCL-110D                             | 788XBXRC1-110D                     | 788XBXRM4L-110D                    |
|                | 3PDT                  | 12 Vac, 50/60 Hz  | 16.9                | 788XCXRC-12A                      | —                                          | —                                  | —                                  |
|                |                       | 24 Vac, 50/60 Hz  | 72                  | 788XCXRC-24A                      | 788XCXRCL-24A                              | 788XCXRC1-24A                      | 788XCXRM4L-24A                     |
|                |                       | 48 Vac, 50/60 Hz  | 290                 | —                                 | —                                          | —                                  | 788XCXRM4L-48A                     |
|                |                       | 120 Vac, 50/60 Hz | 1700                | 788XCXRC-120A                     | 788XCXRCL-120A                             | 788XCXRC1-120A                     | 788XCXRM4L-120A                    |
|                |                       | 240 Vac, 50/60 Hz | 6800                | 788XCXRC-240A                     | 788XCXRCL-240A                             | 788XCXRC1-240A                     | 788XCXRM4L-240A                    |
|                |                       | 12 Vdc            | 120                 | 788XCXRC-12D                      | 788XCXRCL-12D                              | 788XCXRC1-12D                      | 788XCXRM4L-12D                     |
|                |                       | 24 Vdc            | 470                 | 788XCXRC-24D                      | 788XCXRCL-24D                              | 788XCXRC1-24D                      | 788XCXRM4L-24D                     |
|                |                       | 48 Vdc            | 1800                | 788XCXRC-48D                      | 788XCXRCL-48D                              | 788XCXRC1-48D                      | 788XCXRM4L-48D                     |
|                |                       | 110 Vdc           | 7300                | 788XCXRC-110D                     | 788XCXRCL-110D                             | 788XCXRC1-110D                     | 788XCXRM4L-110D                    |

Note: Magnetic blowout versions are also available with an added contact rating of 3 A at 150 Vdc. Refer to the Part Number Explanation shown below.

## Part Number Explanation



Please contact Customer Service for more information (847-441-2540).

# Magnecraft General Purpose Relays

## 788R Series

### DPDT and 3PDT 10 A

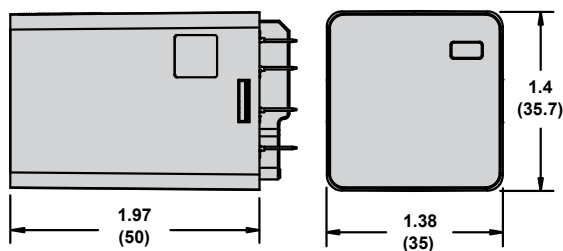
## Specifications

| Part Number                                                  | 788XBXR/XCXR                                                                                                                                                                                                   |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contact Characteristics</b>                               |                                                                                                                                                                                                                |
| Terminal Style                                               | Blade                                                                                                                                                                                                          |
| Contact Material                                             | Silver Alloy                                                                                                                                                                                                   |
| Contact Configuration                                        | DPDT/3PDT                                                                                                                                                                                                      |
| Carrying Current                                             | 10 A                                                                                                                                                                                                           |
| Maximum Switching Voltage                                    | IEC: 250 Vac / 28 Vdc<br>UL/CSA: 300 Vac / 30 Vdc                                                                                                                                                              |
| Rated Switching Current<br>(Conforming to IEC AC-1 and DC-1) | NO: 10 A at 250 Vac / 28 Vdc<br>NC: 5 A at 250 Vac / 28 Vdc                                                                                                                                                    |
| Rated Switching Current<br>(Conforming to UL)                | <b>Resistive:</b> 10 A at 277 Vac, 50/60 Hz, 200 k cycles<br>10 A at 30 Vdc, 200 k cycles<br><b>Motor:</b> 1/3 hp at 120 Vac, 6 k cycles<br>1 hp at 277 Vac, 6 k cycles<br><b>Pilot Duty:</b> B300, 6 k cycles |
| Rated Current with Magnetic Blowout (Code 69)                | UL: 3 A at 150 Vdc (DPDT only), 6 k cycles                                                                                                                                                                     |
| Minimum Switching Requirement                                | 10 mA at 17 Vdc                                                                                                                                                                                                |
| <b>Coil Characteristics</b>                                  |                                                                                                                                                                                                                |
| Maximum Operating Voltage                                    | 110% (AC/DC)                                                                                                                                                                                                   |
| Maximum Pickup Voltage                                       | 85% (AC); 80% (DC)                                                                                                                                                                                             |
| Drop-out Voltage Threshold                                   | 15% (AC); 10% (DC)                                                                                                                                                                                             |
| Average Consumption                                          | 3 VA (AC); 1.4 W (DC)                                                                                                                                                                                          |
| <b>General Characteristics</b>                               |                                                                                                                                                                                                                |
| Electrical Life at Rated Load                                | 100,000 operations                                                                                                                                                                                             |
| Mechanical Life (Unpowered)                                  | 5,000,000 operations                                                                                                                                                                                           |
| Operating Time                                               | 20 ms                                                                                                                                                                                                          |
| Dielectric Strength—Between Coil and Contact (AC)            | 2500 V (rms)                                                                                                                                                                                                   |
| Dielectric Strength—Between Poles (AC)                       | 2000 V (rms)                                                                                                                                                                                                   |
| Dielectric Strength—Between Open Contacts (AC)               | 1500 V (rms)                                                                                                                                                                                                   |
| Ambient Air Temperature around the Device—<br>Storage        | –40 to +85 °C (–40 to +185 °F)                                                                                                                                                                                 |
| Ambient Air Temperature around the Device—<br>Operation      | –40 to +55 °C (–40 to +131 °F)                                                                                                                                                                                 |
| Vibration Resistance—In Operation                            | ±1 mm (10–35 Hz) and 3 gn (35–150 Hz)                                                                                                                                                                          |
| Shock Resistance                                             | 10 gn                                                                                                                                                                                                          |
| Degree of Protection (Housing Only)                          | IP40                                                                                                                                                                                                           |
| Weight                                                       | 83 g (2.93 oz)                                                                                                                                                                                                 |
| Agency Approvals                                             | UL with socket, UR (E164862), CE, CSA (225619), RoHS                                                                                                                                                           |

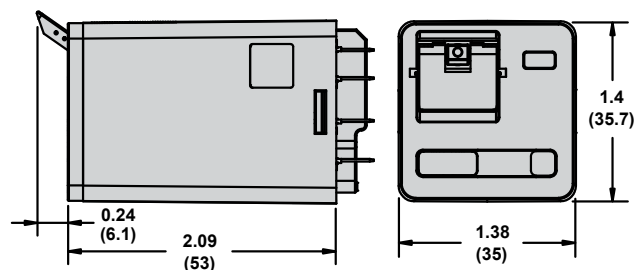
Note: Actual product performance may vary depending on application and environmental conditions.

## Dimensions, in. (mm)

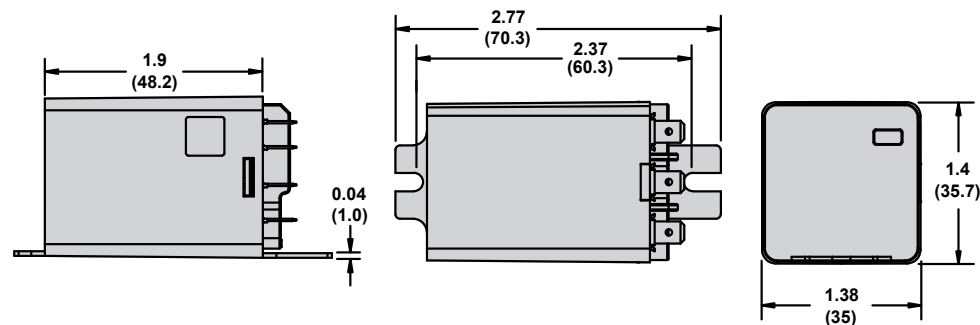
### Clear Cover Dimensions



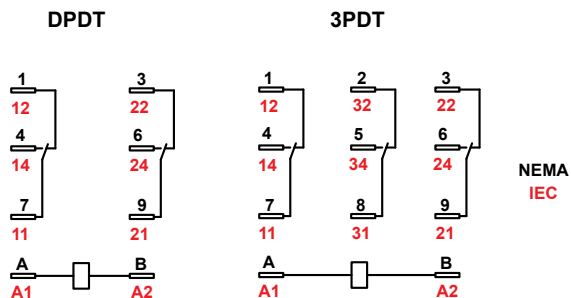
### Full-Feature Cover Dimensions



### Side Flange Cover Dimensions

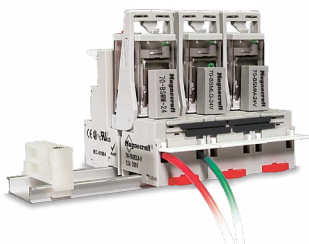


## Wiring Diagrams



# Magnecraft General Purpose Relays

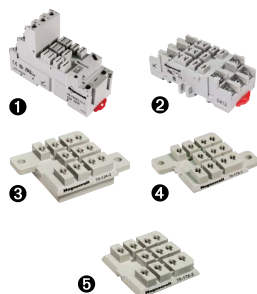
## 788R Series Accessories



### Description

Optional sockets offer customizable, Fingersafe solutions including protection modules, hold-down clips, and ID tags. Sockets are DIN rail and panel mount compatible.

### Relay Accessories



| Description | Function                                                   | For Use with Relays | Pkg. Min. | Standard Part Number |
|-------------|------------------------------------------------------------|---------------------|-----------|----------------------|
| Socket ①    | DIN mount with elevator terminals                          | 788XBXR/XCXR        | 10        | 70-788EL11-1         |
| Socket ②    | DIN / Panel mount with screw terminals and clamping plates |                     | 10        | 70-463-1             |
| Socket ③    | 0.187 in. Quick Connect terminals with mounting tabs       |                     | 10        | 70-124-2             |
| Socket ④    | Printed circuit terminals with mounting tabs               |                     | 10        | 70-178-1             |
| Socket ⑤    | Printed circuit terminals without mounting tabs            |                     | 10        | 70-178-2             |

### Socket Accessories



| Description                                       | Function                                                                     | For Use with Sockets                                 | Coil Voltage    | Pkg. Min. | Standard Part Number |
|---------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------|-----------------|-----------|----------------------|
| Metal Spring Clip ①                               | Secures relay in socket                                                      | 70-788EL11-1, 70-463-1, 70-124-1, 70-178-1, 70-178-2 | —               | 10        | 16-1351              |
| Metal Spring Clip ②                               | Secures relay in socket                                                      | 70-463-1                                             | —               | 10        | 16-1344              |
| Insulated Coil Bus Jumper System ③                | Wireless socket connection                                                   | 70-788EL11-1                                         | —               | 10        | 16-750/788CBJ-1      |
| Plastic ID Tag ④                                  | Write-on plastic labels                                                      |                                                      | —               | 10        | 16-750/788FT-1       |
| Extruded Aluminum DIN Rail, 39.37 in. (1000 mm) ⑤ | Quick installation and removal of sockets                                    | 70-788EL11-1, 70-463-1                               | —               | 10        | 16-700DIN            |
| DIN Rail End Clip ⑥                               | Holds sockets firmly in place on DIN rail                                    | —                                                    | —               | 10        | 16-DCLIP-1           |
| Large Socket Module                               | MOV suppressor (protects from damaging electrical spikes)                    | 70-788EL11-1                                         | 24 Vac/Vdc      | 10        | 70-ASMM-24           |
| Large Socket Module                               | Protection diode (protects external drive circuitry from inductive voltages) |                                                      | 250 Vdc         | 10        | 70-ASMD-250          |
| Large Socket Module ⑥                             | LED indicator (provides coil status at a glance)                             |                                                      | 110/240 Vac/Vdc | 10        | 70-ASMLG-110/240     |
| Large Socket Module                               | RC suppressor (snubs back EMF of relay coil)                                 |                                                      | 110/240 Vac     | 10        | 70-ASMR-110/240      |

Note: Use of an LED or RC socket module can increase coil power draw by up to 10%.

## Description

# Magnecraft General Purpose Relays

## 782H Hazardous Location Series

### 4PDT 3 A and 5 A



UL Listed when used with proper Magnecraft sockets



782H Hazardous Location Relay

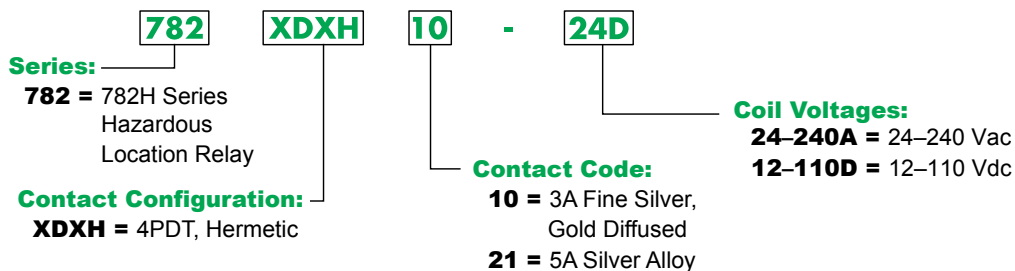
## Description

The hermetically sealed 782H Series relays comply with UL Class I Division 2 requirements for use in hazardous locations.

| Feature                          | Benefit                                                                                                                           |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Hermetically sealed              | Complies with UL Class I Division 2 for Hazardous Locations Groups A, B, C, and D; sealed for wash down conditions                |
| 3 A / 5 A max. switching current | Ideal for automation and control applications                                                                                     |
| 4PDT contact configuration       | Simultaneously control up to 4 separate circuits                                                                                  |
| Screw mount options              | Allows for direct mounting                                                                                                        |
| Socket mount option              | Simplifies installation and maintenance while also allowing the use of protection modules, hold-down clips, and other accessories |
| Gold-flashed contacts            | Reduces contact oxidation and increases shelf life                                                                                |

| Contact Rating | Contact Configuration | Nominal Voltage   | Coil Resistance ( $\Omega$ ) | Standard Part Number |
|----------------|-----------------------|-------------------|------------------------------|----------------------|
| 3 A            | 4PDT                  | 120 Vac, 50/60 Hz | 3900                         | 782XDXH10-120A       |
|                |                       | 12 Vdc            | 160                          | 782XDXH10-12D        |
|                |                       | 24 Vdc            | 650                          | 782XDXH10-24D        |
|                |                       | 110 Vdc           | 11000                        | 782XDXH10-110D       |
| 5 A            | 4PDT                  | 120 Vac, 50/60 Hz | 3900                         | 782XDXH21-120A       |
|                |                       | 12 Vdc            | 160                          | 782XDXH21-12D        |
|                |                       | 24 Vdc            | 650                          | 782XDXH21-24D        |

## Part Number Explanation



Please contact Customer Service for more information (847-441-2540).

# Magnecraft General Purpose Relays

## 782H Hazardous Location Series

### 4PDT 3 A and 5 A

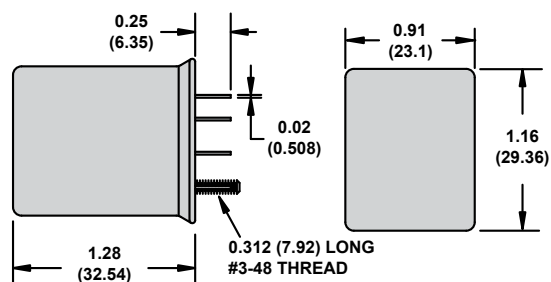
## Specifications

| Part Number                                                         | 782XDXH21                                                                                                                         | 782XDXH10                                                                                                                                                                                   |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contact Characteristics</b>                                      |                                                                                                                                   |                                                                                                                                                                                             |
| Terminal Style                                                      | Blade                                                                                                                             | Blade                                                                                                                                                                                       |
| Contact Material                                                    | Silver Alloy                                                                                                                      | Fine Silver                                                                                                                                                                                 |
| Load Type                                                           | Standard                                                                                                                          | Low Level                                                                                                                                                                                   |
| Contact Configuration                                               | 4PDT                                                                                                                              | 4PDT                                                                                                                                                                                        |
| Carrying Current                                                    | 5 A                                                                                                                               | 3 A                                                                                                                                                                                         |
| Maximum Switching Voltage                                           | 300 V                                                                                                                             | 300 V                                                                                                                                                                                       |
| Rated Switching Current<br>(Conforming to IEC AC-1)                 | 5 A at 240 Vac (NO or NC Only)                                                                                                    | 3 A at 240 Vac (NO or NC Only)                                                                                                                                                              |
| Rated Switching Current<br>(Conforming to UL and ANSI/ISA 12.12.01) | <b>Resistive:</b> 5 A at 120 Vac, 50/60 Hz, 100 k cycles<br>5 A at 240 Vac, 50/60 Hz, 100 k cycles<br>5 A at 30 Vdc, 100 k cycles | <b>Resistive:</b> 3 A at 120 Vac, 50/60 Hz, 100 k cycles<br>3 A at 240 Vac, 50/60 Hz, 100 k cycles<br>3 A at 30 Vdc, 100 k cycles<br><b>Motor:</b> 1/10 hp at 120 Vac<br>1/10 hp at 240 Vac |
| Minimum Switching Requirement                                       | 100 mA at 5 Vdc                                                                                                                   | 10 mA at 5 Vdc                                                                                                                                                                              |
| <b>Coil Characteristics</b>                                         |                                                                                                                                   |                                                                                                                                                                                             |
| Maximum Operating Voltage                                           | 110% (AC/DC)                                                                                                                      |                                                                                                                                                                                             |
| Maximum Pickup Voltage                                              | 80% (AC); 75% (DC)                                                                                                                |                                                                                                                                                                                             |
| Drop-out Voltage Threshold                                          | 30% (AC); 10% (DC)                                                                                                                |                                                                                                                                                                                             |
| Average Consumption                                                 | 1.2 VA (AC); 0.9 W (DC)                                                                                                           |                                                                                                                                                                                             |
| <b>General Characteristics</b>                                      |                                                                                                                                   |                                                                                                                                                                                             |
| Electrical Life at Rated Load                                       | 100,000 operations                                                                                                                |                                                                                                                                                                                             |
| Mechanical Life (Unpowered)                                         | 10,000,000 operations                                                                                                             |                                                                                                                                                                                             |
| Operating Time                                                      | 20 ms                                                                                                                             |                                                                                                                                                                                             |
| Dielectric Strength                                                 | Between Coil and Contact (AC)                                                                                                     | 1600 V (rms)                                                                                                                                                                                |
|                                                                     | Between Poles (AC)                                                                                                                | 1600 V (rms)                                                                                                                                                                                |
| Ambient Air Temperature<br>around the Device                        | Storage                                                                                                                           | -60 to +85 °C (-76 to +185 °F)                                                                                                                                                              |
|                                                                     | Operation                                                                                                                         | -45 to +70 °C (-49 to +158 °F)                                                                                                                                                              |
| Temperature Code for Hazardous Locations                            | T5: AC coil +40 °C (+40 °F), DC coil +70 °C (+158 °F)                                                                             |                                                                                                                                                                                             |
| Vibration Resistance—In Operation                                   | 6 gn at 10–55 Hz                                                                                                                  |                                                                                                                                                                                             |
| Shock Resistance                                                    | 10 gn                                                                                                                             |                                                                                                                                                                                             |
| Degree of Protection                                                | Hermetically sealed                                                                                                               |                                                                                                                                                                                             |
| Weight                                                              | 45 g (1.59 oz)                                                                                                                    |                                                                                                                                                                                             |
| Agency Approvals                                                    | UL with socket, UR (E209950), CE, CSA (LR40787), RoHS                                                                             |                                                                                                                                                                                             |

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

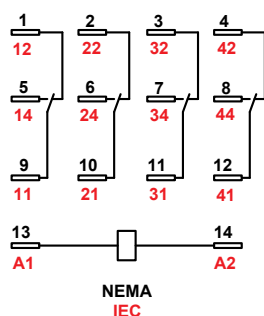
## Dimensions, in. (mm)

782H



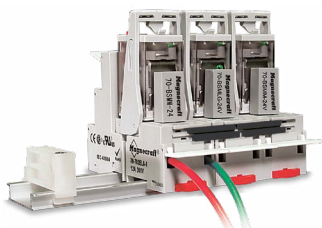
## Wiring Diagrams

4PDT



# Magnecraft General Purpose Relays

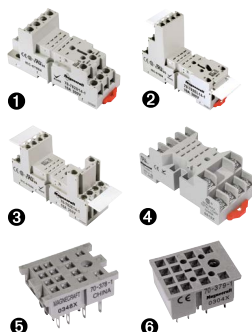
## 782H Hazardous Location Series Accessories



### Description

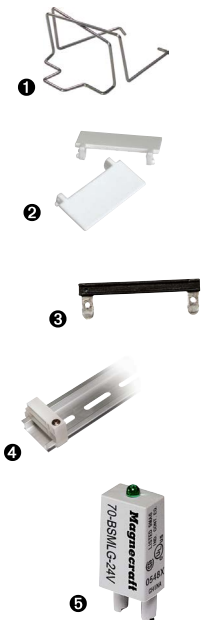
Optional sockets offer customizable, Fingersafe solutions including protection modules, hold-down clips, and ID tags. Sockets are DIN rail and panel mount compatible.

### Relay Accessories



| Description | Function                                                   | For Use with Relays | Pkg. Min. | Standard Part Number |
|-------------|------------------------------------------------------------|---------------------|-----------|----------------------|
| Socket ①    | DIN / Panel mount with screw terminals and clamping plates | 782XDXH             | 10        | 70-782D14-1          |
| Socket ②    | DIN / Panel mount with elevator terminals                  |                     | 10        | 70-782EL14-1         |
| Socket ③    | DIN / Panel mount with rising elevator box terminals       |                     | 10        | 70-782E14-1          |
| Socket ④    | DIN / Panel mount with screw terminals and clamping plates |                     | 10        | 70-461-1             |
| Socket ⑤    | Solder terminals for chassis mount                         |                     | 10        | 70-378-1             |
| Socket ⑥    | Printed circuit terminals for PCB mount                    |                     | 10        | 70-379-1             |

### Socket Accessories



| Description                                       | Function                                                                              | For Use with Sockets                                                 | Coil Voltage | Pkg. Min. | Standard Part Number |
|---------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------|-----------|----------------------|
| Metal Spring Clip ❶                               | Secures relay in socket                                                               | 70-782D14-1, 70-782E14-1, 70-782EL14-1, 70-461-1, 70-378-1, 70-379-1 | —            | 10        | 16-1342              |
| Plastic ID Tag ❷                                  | Write-on plastic labels                                                               | 70-782E14-1, 70-782EL14-1                                            | —            | 10        | 16-782FT-1           |
| Insulated Coil Bus Jumper System ❸                | Wireless socket connection                                                            | 70-782EL14-1                                                         | —            | 10        | 16-782CBJ-1          |
| Extruded Aluminum DIN Rail, 39.37 in. (1000 mm) ❹ | Quick installation and removal of sockets                                             | 70-782D14-1, 70-782EL14-1, 70-782E14-1                               | —            | 10        | 16-700DIN            |
| DIN Rail End Clip ❹                               | Holds sockets firmly in place on DIN rail                                             | —                                                                    | —            | 10        | 16-DCLIP-1           |
| Small Socket Module                               | Protection diode ( <i>protects external drive circuitry from inductive voltages</i> ) | 70-782D14-1, 70-782EL14-1, 70-782E14-1                               | 6 to 250 Vdc | 10        | 70-BSMD-250          |
| Small Socket Module ❺                             | LED indicator ( <i>provides coil status at a glance</i> )                             |                                                                      | 24 Vac/Vdc   | 10        | 70-BSMLG-24          |
| Small Socket Module                               | MOV suppressor ( <i>protects from damaging electrical spikes</i> )                    |                                                                      | 120 Vac/Vdc  | 10        | 70-BSMM-120          |
|                                                   |                                                                                       |                                                                      | 24 Vac/Vdc   | 10        | 70-BSMM-24           |
|                                                   |                                                                                       |                                                                      | 240 Vac/Vdc  | 10        | 70-BSMM-240          |

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

## Description

# Magnecraft General Purpose Relays

## 750H Hazardous Location Series

DPDT, 3PDT 12 A



UL Listed when used with proper Magnecraft sockets



750H Hazardous Location Relay

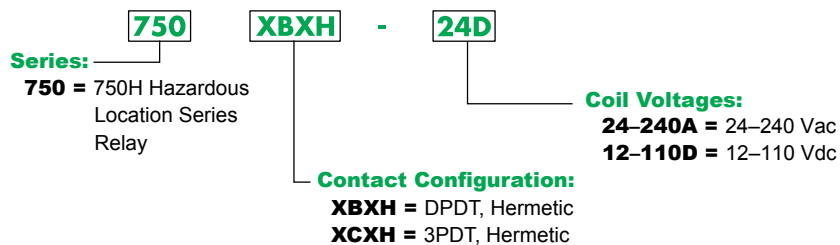
## Description

The hermetically sealed 750H Series relays comply with UL Class I Division 2 requirements for use in hazardous locations.

| Feature                             | Benefit                                                                                                                           |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Hermetically sealed                 | Complies with UL Class I Division 2 for Hazardous Locations Groups A, B, C, and D; sealed for wash down conditions                |
| Octal style mounting                | Robust and historically proven mounting platform that provides excellent structural support                                       |
| 12 A max. switching current         | Ideal for automation and control applications                                                                                     |
| DPDT and 3PDT contact configuration | Simultaneously control separate circuits                                                                                          |
| Socket mount option                 | Simplifies installation and maintenance while also allowing the use of protection modules, hold-down clips, and other accessories |

| Contact Rating | Contact Configuration | Nominal Voltage   | Coil Resistance (Ω) | Standard Part Number |
|----------------|-----------------------|-------------------|---------------------|----------------------|
| 12 A           | DPDT                  | 24 Vac, 50/60 Hz  | 72                  | 750XBXH-24A          |
|                |                       | 120 Vac, 50/60 Hz | 1700                | 750XBXH-120A         |
|                |                       | 12 Vdc            | 120                 | 750XBXH-12D          |
|                |                       | 24 Vdc            | 470                 | 750XBXH-24D          |
|                |                       | 110 Vdc           | 10000               | 750XBXH-110D         |
|                | 3PDT                  | 24 Vac, 50/60 Hz  | 72                  | 750XCXH-24A          |
|                |                       | 120 Vac, 50/60 Hz | 1700                | 750XCXH-120A         |
|                |                       | 24 Vdc            | 470                 | 750XCXH-24D          |
|                |                       | 110 Vdc           | 10000               | 750XCXH-110D         |

## Part Number Explanation



Please contact Customer Service for more information (847-441-2540).

# Magnecraft General Purpose Relays

## 750H Hazardous Location Series

### DPDT, 3PDT 12 A

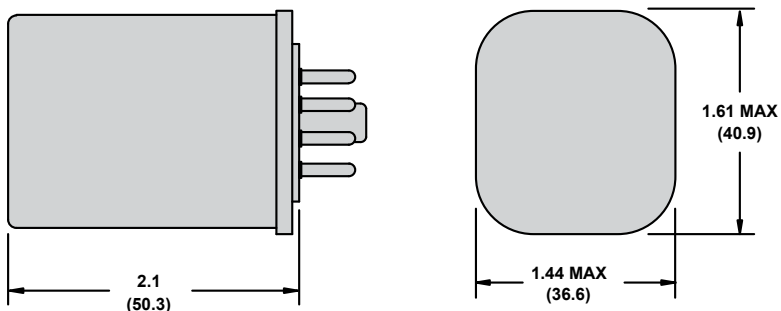
#### Specifications (UL 508)

| Part Number                                                         |                               | 750XBXH                                                                                                                                                                                           | 750XCXH                                                                                                                                                                                           |
|---------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contact Characteristics</b>                                      |                               |                                                                                                                                                                                                   |                                                                                                                                                                                                   |
| Terminal Style                                                      |                               | Octal                                                                                                                                                                                             | Octal                                                                                                                                                                                             |
| Contact Material                                                    |                               | Silver Alloy                                                                                                                                                                                      | Silver Alloy                                                                                                                                                                                      |
| Load Type                                                           |                               | Standard                                                                                                                                                                                          | Standard                                                                                                                                                                                          |
| Contact Configuration                                               |                               | DPDT                                                                                                                                                                                              | 3PDT                                                                                                                                                                                              |
| Carrying Current                                                    |                               | 12 A                                                                                                                                                                                              | 12 A                                                                                                                                                                                              |
| Maximum Switching Voltage                                           |                               | 300 V                                                                                                                                                                                             | 300 V                                                                                                                                                                                             |
| Rated Switching Current<br>(Conforming to UL and ANSI/ISA 12.12.01) |                               | <b>Resistive:</b> 12 A at 120 Vac, 50/60 Hz<br>12 A at 240 Vac, 50/60 Hz<br>12 A at 28 Vdc<br><b>Motor:</b> 1/2 hp at 240 Vac, 50/60 Hz<br>1/3 hp at 120 Vac, 50/60 Hz<br><b>Pilot Duty:</b> B300 | <b>Resistive:</b> 12 A at 120 Vac, 50/60 Hz<br>12 A at 240 Vac, 50/60 Hz<br>12 A at 28 Vdc<br><b>Motor:</b> 1/2 hp at 240 Vac, 50/60 Hz<br>1/3 hp at 120 Vac, 50/60 Hz<br><b>Pilot Duty:</b> B300 |
| Minimum Switching Requirement                                       |                               | 100 mA at 5 Vdc                                                                                                                                                                                   | 100 mA at 5 Vdc                                                                                                                                                                                   |
| <b>Coil Characteristics</b>                                         |                               |                                                                                                                                                                                                   |                                                                                                                                                                                                   |
| Maximum Operating Voltage                                           |                               | 110% (AC/DC)                                                                                                                                                                                      | 110% (AC/DC)                                                                                                                                                                                      |
| Maximum Pickup Voltage                                              |                               | 85% (AC); 80% (DC)                                                                                                                                                                                | 85% (AC); 80% (DC)                                                                                                                                                                                |
| Drop-out Voltage Threshold                                          |                               | 30% (AC); 10% (DC)                                                                                                                                                                                | 30% (AC); 10% (DC)                                                                                                                                                                                |
| Average Consumption                                                 |                               | 1.2 VA (AC); 0.9 W (DC)                                                                                                                                                                           | 2 VA (AC); 1.2 W (DC)                                                                                                                                                                             |
| <b>General Characteristics</b>                                      |                               |                                                                                                                                                                                                   |                                                                                                                                                                                                   |
| Electrical Life at Rated Load                                       |                               | 100,000 operations                                                                                                                                                                                |                                                                                                                                                                                                   |
| Mechanical Life (Unpowered)                                         |                               | 5,000,000 operations                                                                                                                                                                              |                                                                                                                                                                                                   |
| Operating Time                                                      |                               | 20 ms                                                                                                                                                                                             |                                                                                                                                                                                                   |
| Dielectric Strength                                                 | Between Coil and Contact (AC) | 1500 V (rms)                                                                                                                                                                                      |                                                                                                                                                                                                   |
|                                                                     | Between Poles (AC)            | 1500 V (rms)                                                                                                                                                                                      |                                                                                                                                                                                                   |
| Ambient Air Temperature<br>around the Device                        | Storage                       | -60 to +105 °C (-76 to +221 °F)                                                                                                                                                                   |                                                                                                                                                                                                   |
|                                                                     | Operation                     | DC: -45 to +70 °C (-49 to +158 °F)<br>AC: -45 to +55 °C (-49 to +131 °F)                                                                                                                          |                                                                                                                                                                                                   |
| Temperature Code for Hazardous Locations                            |                               | DC: T5, Max. Ambient Temperature +70 °C<br>AC: T4A, Max. Ambient Temperature +40 °C                                                                                                               |                                                                                                                                                                                                   |
| Vibration Resistance—In Operation                                   |                               | 6 gn at 10–55 Hz                                                                                                                                                                                  |                                                                                                                                                                                                   |
| Shock Resistance                                                    |                               | 5 gn (11 ms)                                                                                                                                                                                      |                                                                                                                                                                                                   |
| Degree of Protection                                                |                               | Hermetically sealed                                                                                                                                                                               |                                                                                                                                                                                                   |
| Weight                                                              |                               | 130 g (4.59 oz)                                                                                                                                                                                   |                                                                                                                                                                                                   |
| Agency Approvals                                                    |                               | UL with socket, UR (E209950), RoHS                                                                                                                                                                |                                                                                                                                                                                                   |

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

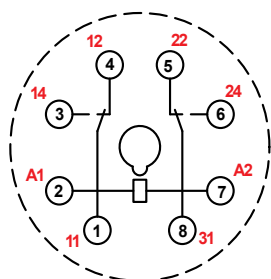
## Dimensions, in. (mm)

750H

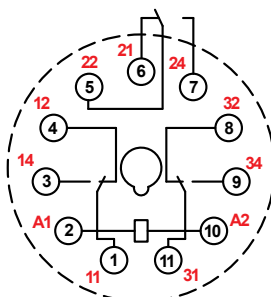


## Wiring Diagrams

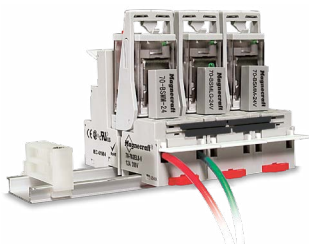
DPDT



3PDT



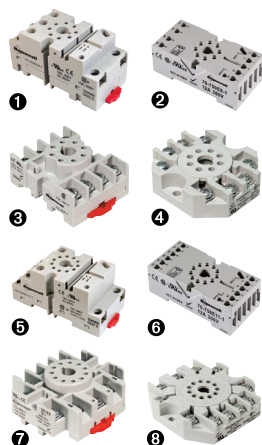
NEMA  
IEC



### Description

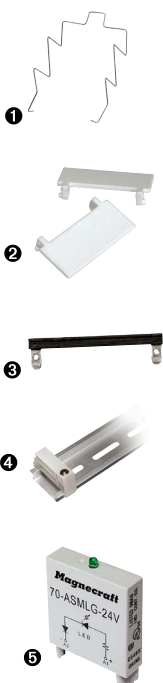
Optional sockets offer customizable, Fingersafe solutions including protection modules, hold-down clips, and ID tags. Sockets are DIN rail and panel mount compatible.

### Relay Accessories



| Description | Function                                                     | For Use with Relays | Pkg. Min. | Standard Part Number |
|-------------|--------------------------------------------------------------|---------------------|-----------|----------------------|
| Socket 1    | DIN / Panel mount with screw terminals                       | 750XBXH             | 10        | 70-750DL8-1          |
| Socket 2    | DIN / Panel mount with elevator terminals, module compatible |                     | 10        | 70-750E8-1           |
| Socket 3    | DIN / Panel mount with screw terminals and clamping plates   |                     | 10        | 70-464-1             |
| Socket 4    | Panel mount with screw terminals and clamping plates         |                     | 10        | 70-169-1             |
| Socket 5    | DIN / Panel mount                                            | 750XCXH             | 10        | 70-750DL11-1         |
| Socket 6    | DIN / Panel mount with elevator terminals                    |                     | 10        | 70-750E11-1          |
| Socket 7    | DIN / Panel mount with screw terminals and clamping plates   |                     | 10        | 70-465-1             |
| Socket 8    | Panel mount with screw terminals and clamping plates         |                     | 10        | 70-170-1             |

### Socket Accessories



| Description                                       | Function                                                                     | For Use with Sockets                                                   | Coil Voltage    | Pkg. Min. | Standard Part Number |
|---------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------|-----------|----------------------|
| Metal Spring Clip 1                               | Secures relay in socket                                                      | 70-750DL8-1, 70-750E8-1, 70-464-1, 70-750E11-1, 70-750DL11-1, 70-465-1 | –               | 10        | 16-1351              |
| Plastic ID Tag 2                                  | Write-on plastic labels                                                      | 70-750E8-1, 70-750E11-1                                                | –               | 10        | 16-750/788FT-1       |
| Insulated Coil Bus Jumper System 3                | Wireless socket connection                                                   | 70-750DL8-1, 70-750DL11-1                                              | –               | 10        | 16-750/788CBJ-1      |
| Extruded Aluminum DIN Rail, 39.37 in. (1000 mm) 4 | Quick installation and removal of sockets                                    | 70-750DL8-1, 70-750E8-1, 70-464-1, 70-750E11-1, 70-750DL11-1, 70-465-1 | –               | 10        | 16-700DIN            |
| DIN Rail End Clip 4                               | Holds sockets firmly in place on DIN rail                                    | –                                                                      | –               | 10        | 16-DCLIP-1           |
| Large Socket Module                               | MOV suppressor (protects from damaging electrical spikes)                    | 70-750DL8-1, 70-750E8-1, 70-750E11-1, 70-750DL11-1                     | 24 Vac/Vdc      | 10        | 70-ASMM-24           |
| Large Socket Module                               | Protection diode (protects external drive circuitry from inductive voltages) |                                                                        | 250 Vdc         | 10        | 70-ASMD-250          |
| Large Socket Module 5                             | LED indicator (provides coil status at a glance)                             |                                                                        | 110/240 Vac/Vdc | 10        | 70-ASMLG-110/240     |
| Large Socket Module                               | RC suppressor (snubs back EMF of relay coil)                                 |                                                                        | 110/240 Vac     | 10        | 70-ASMR-110/240      |

Note: Use of an LED or RC socket module can increase coil power draw by up to 10%.



783XCX Relay with  
70-783D11-1A Socket and  
16-783SC Spring Clip

■ Socket Specifications . . . . .42

■ Mounting Adapter Specifications . . . . .65

The following relay/socket combinations comprise a UL Listed assembly when used with each other. This added benefit allows for easier installation as there are no end-use evaluations required when using Magnecraft relays or sockets with third party components.

UL Listed Relay/Socket Combinations

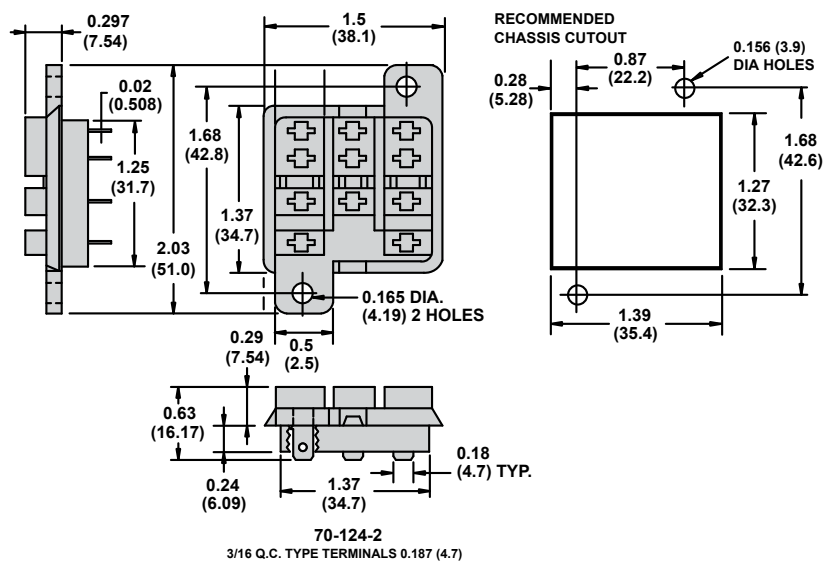
| Mating Relay(s) | Number of Socket Pins | Socket Part Number |
|-----------------|-----------------------|--------------------|
| 781R            | 5                     | 70-781D5R-1A       |
| 782             | 8                     | 70-782D8-1A        |
|                 |                       | 70-459-1           |
| 792XBX          | 8                     | 70-782EL8-1        |
|                 |                       | 70-782D14-1        |
| 792XDX          | 14                    | 70-782E14-1        |
|                 |                       | 70-782EL 14-1      |
|                 |                       | 70-461-1           |
| 783             | 11                    | 70-783D11-1A       |
| 784             | 14                    | 70-784D14-1        |
|                 |                       | 70-464-1           |
|                 | 8                     | 70-750E8-1         |
|                 |                       | 70-750EL8-1        |
|                 |                       | 70-750DL8-1        |
| 750R            | 11                    | 70-465-1           |
|                 |                       | 70-750E11-1        |
|                 |                       | 70-750EL11-1       |
|                 |                       | 70-750DL11-1       |
| 788R            | 11                    | 70-463-1           |
|                 |                       | 70-788EL11-1       |
|                 |                       | 70-782EL 14-1      |
| 782H            | 14                    | 70-782E14-1        |
|                 |                       | 70-782D14-1        |
|                 |                       | 70-461-1           |
|                 | 8                     | 70-464-1           |
|                 |                       | 70-750E8-1         |
| 750H            | 11                    | 70-465-1           |
|                 |                       | 70-750E11-1        |

## Socket Specifications

| Part Number                      | 70-124-2                                                                                                         |
|----------------------------------|------------------------------------------------------------------------------------------------------------------|
| Contact Configuration            | 3PDT                                                                                                             |
| Number of Terminals              | 11                                                                                                               |
| Mounting Style                   | Panel / Chassis                                                                                                  |
| Current Rating                   | 15 A                                                                                                             |
| Nominal Voltage Rating           | 300 V                                                                                                            |
| Storage Temperature Range        | -40 to +105 °C (-40 to +221 °F)                                                                                  |
| Operating Temperature Range      | -40 to +55 °C (-40 to +131 °F)                                                                                   |
| Protection Category (Fingersafe) | IP20                                                                                                             |
| Internal Metal Tracks            | Copper Alloy, Zinc Plated                                                                                        |
| Screw Terminals                  | Copper Alloy, Zinc Plated                                                                                        |
| Screw Style                      | —                                                                                                                |
| Screw Size                       | —                                                                                                                |
| Maximum Screw Torque             | —                                                                                                                |
| Terminal Connection              | Solder                                                                                                           |
| Terminal Layout                  | Mix                                                                                                              |
| Maximum Wire Size                | <b>Solid Cu:</b> (Output) 16 AWG, 1.0 mm <sup>2</sup> ; <b>Stranded Cu:</b> (Output) 16 AWG, 1.0 mm <sup>2</sup> |
| DIN Rail Mounting, EN 60715      | —                                                                                                                |
| Chassis Mount Screw Torque       | —                                                                                                                |
| Flammability Rating              | 94V-0                                                                                                            |
| Weight                           | 12.1 g (0.43 oz)                                                                                                 |
| Agency Approvals                 | UL (E70550), CE, CSA (LR40787), RoHS                                                                             |

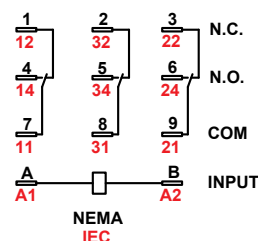
## Dimensions, in. (mm)

70-124-2



## Wiring Diagram

70-124-2

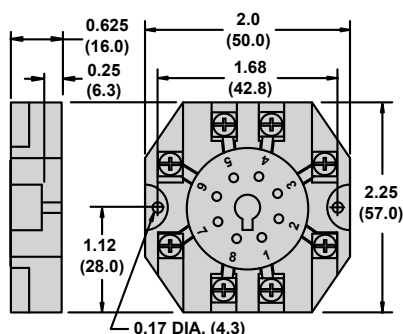


### Socket Specifications

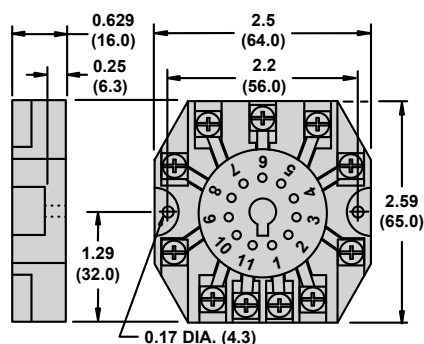
| Part Number                      | 70-169-1                                                                                                                  | 70-170-1                                                                                                                  |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Contact Configuration            | DPDT                                                                                                                      | 3PDT                                                                                                                      |
| Number of Terminals              | 8                                                                                                                         | 11                                                                                                                        |
| Mounting Style                   | Panel                                                                                                                     | Panel                                                                                                                     |
| Current Rating                   | 15 A                                                                                                                      | 15 A                                                                                                                      |
| Nominal Voltage Rating           | 300 V                                                                                                                     | 300 V                                                                                                                     |
| Storage Temperature Range        | -40 to +105 °C (-40 to +221 °F)                                                                                           | -40 to +105 °C (-40 to +221 °F)                                                                                           |
| Operating Temperature Range      | -40 to +55 °C (-40 to +131 °F)                                                                                            | -40 to +55 °C (-40 to +131 °F)                                                                                            |
| Protection Category (Fingersafe) | —                                                                                                                         | —                                                                                                                         |
| Internal Metal Tracks            | Copper Alloy, Zinc Plated                                                                                                 | Copper Alloy, Zinc Plated                                                                                                 |
| Screw Terminals                  | Steel, Zinc Plated                                                                                                        | Steel, Zinc Plated                                                                                                        |
| Screw Style                      | Combination Head                                                                                                          | Combination Head                                                                                                          |
| Screw Size                       | M3.5 mm                                                                                                                   | M3.5 mm                                                                                                                   |
| Maximum Screw Torque             | 9 lb-in / 1.0 N•m                                                                                                         | 9 lb-in / 1.0 N•m                                                                                                         |
| Terminal Connection              | Screw Clamping                                                                                                            | Screw Clamping                                                                                                            |
| Terminal Layout                  | Mix                                                                                                                       | Mix                                                                                                                       |
| Maximum Wire Size                | <b>Solid Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup><br><b>Stranded Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup> | <b>Solid Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup><br><b>Stranded Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup> |
| DIN Rail Mounting, EN 60715      | 35 mm                                                                                                                     | 35 mm                                                                                                                     |
| Chassis Mount Screw Torque       | 7 lb-in / 0.8 N•m                                                                                                         | 7 lb-in / 0.8 N•m                                                                                                         |
| Flammability Rating              | 94V-0                                                                                                                     | 94V-0                                                                                                                     |
| Weight                           | 57 g (2.01 oz)                                                                                                            | 57 g (2.01 oz)                                                                                                            |
| Agency Approvals                 | UL (E70550), CE, CSA (LR97899), RoHS                                                                                      | UL (E70550), CE, CSA (LR97899), RoHS                                                                                      |

### Dimensions, in. (mm)

70-169-1

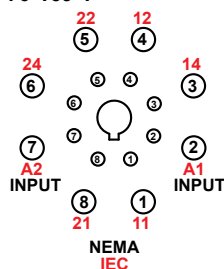


70-170-1

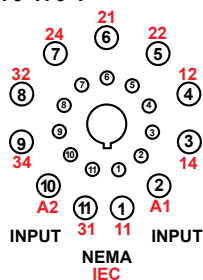


### Wiring Diagrams

70-169-1



70-170-1

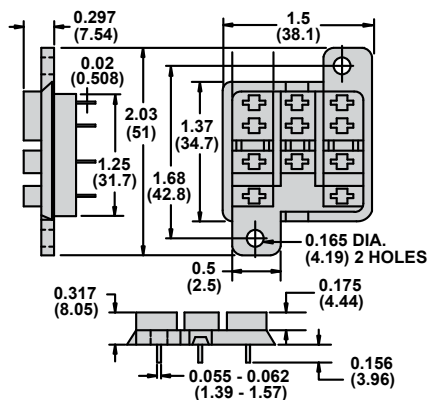


### Socket Specifications

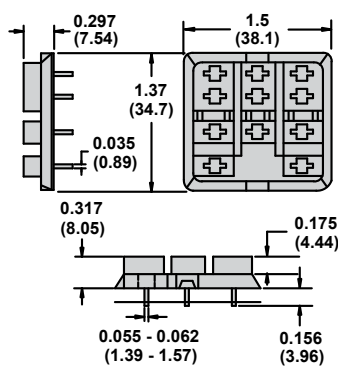
| Part Number                      | 70-178-1                                                                                                            | 70-178-2                                                                                                            |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Contact Configuration            | 3PDT                                                                                                                | 3PDT                                                                                                                |
| Number of Terminals              | 11                                                                                                                  | 11                                                                                                                  |
| Mounting Style                   | Panel / PCB                                                                                                         | PCB                                                                                                                 |
| Current Rating                   | 15 A                                                                                                                | 15 A                                                                                                                |
| Nominal Voltage Rating           | 300 V                                                                                                               | 300 V                                                                                                               |
| Storage Temperature Range        | -40 to +105 °C (-40 to +221 °F)                                                                                     | -40 to +105 °C (-40 to +221 °F)                                                                                     |
| Operating Temperature Range      | -40 to +55 °C (-40 to +131 °F)                                                                                      | -40 to +55 °C (-40 to +131 °F)                                                                                      |
| Protection Category (Fingersafe) | IP20                                                                                                                | IP20                                                                                                                |
| Internal Metal Tracks            | Copper Alloy, Zinc Plated                                                                                           | Copper Alloy, Zinc Plated                                                                                           |
| Screw Terminals                  | Copper Alloy, Zinc Plated                                                                                           | Copper Alloy, Zinc Plated                                                                                           |
| Screw Style                      | —                                                                                                                   | —                                                                                                                   |
| Screw Size                       | —                                                                                                                   | —                                                                                                                   |
| Maximum Screw Torque             | —                                                                                                                   | —                                                                                                                   |
| Terminal Connection              | PCB                                                                                                                 | PCB                                                                                                                 |
| Terminal Layout                  | Mix                                                                                                                 | Mix                                                                                                                 |
| Maximum Wire Size                | <b>Solid Cu:</b> (Output): 16 AWG, 1.0 mm <sup>2</sup><br><b>Stranded Cu:</b> (Output): 16 AWG, 1.0 mm <sup>2</sup> | <b>Solid Cu:</b> (Output): 16 AWG, 1.0 mm <sup>2</sup><br><b>Stranded Cu:</b> (Output): 16 AWG, 1.0 mm <sup>2</sup> |
| DIN Rail Mounting, EN 60715      | —                                                                                                                   | —                                                                                                                   |
| Chassis Mount Screw Torque       | —                                                                                                                   | —                                                                                                                   |
| Flammability Rating              | 94V-0                                                                                                               | 94V-0                                                                                                               |
| Weight                           | 12.1 g (0.43 oz)                                                                                                    | 12.1 g (0.43 oz)                                                                                                    |
| Agency Approvals                 | UL (E70550), CE, CSA (LR40787), RoHS                                                                                | UL (E70550), CE, CSA (LR40787), RoHS                                                                                |

### Dimensions, in. (mm)

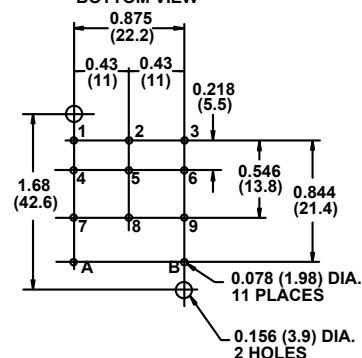
70-178-1



70-178-2

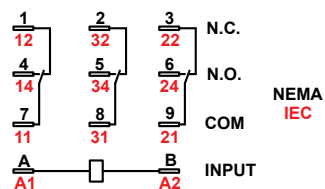


RECOMMENDED CIRCUIT BOARD LAYOUT  
FOR 70-178-1 & 70-178-2  
BOTTOM VIEW



### Wiring Diagram

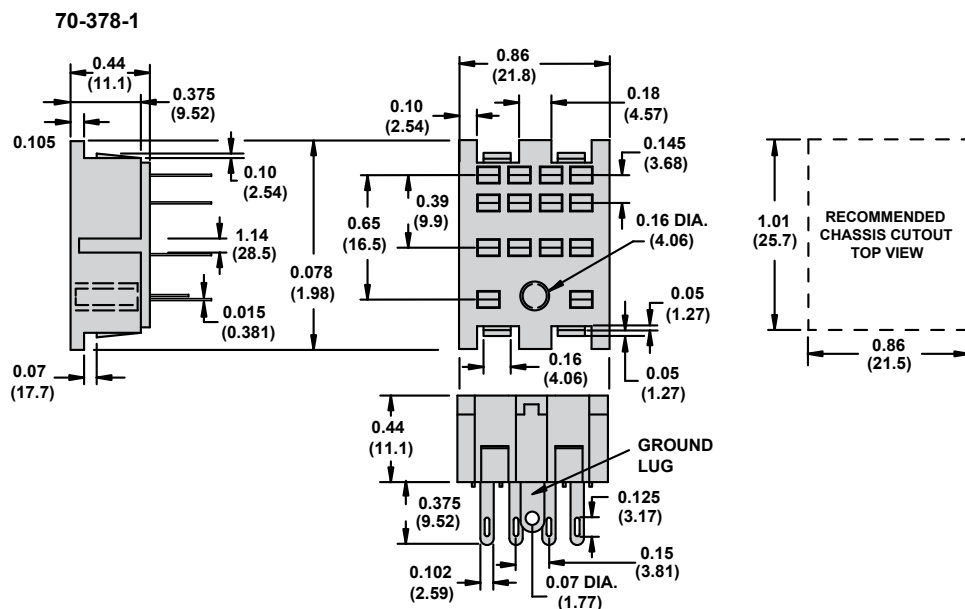
70-178-1 & 70-178-2



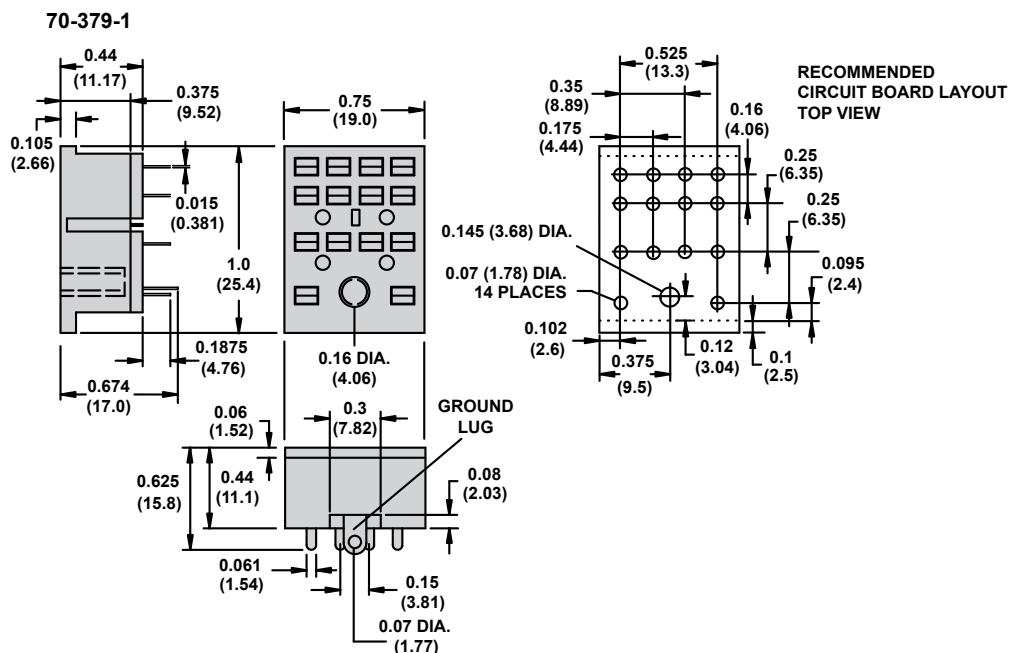
### Socket Specifications

| Part Number                      | 70-378-1                                                                                                            | 70-379-1                             |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Contact Configuration            | 4PDT                                                                                                                | 4PDT                                 |
| Number of Terminals              | 14                                                                                                                  | 14                                   |
| Mounting Style                   | Chassis                                                                                                             | PCB                                  |
| Current Rating                   | 5 A                                                                                                                 | 5 A                                  |
| Nominal Voltage Rating           | 120 V                                                                                                               | 120 V                                |
| Storage Temperature Range        | -40 to +105 °C (-40 to +221 °F)                                                                                     | -40 to +105 °C (-40 to +221 °F)      |
| Operating Temperature Range      | -40 to +55 °C (-40 to +131 °F)                                                                                      | -40 to +55 °C (-40 to +131 °F)       |
| Protection Category (Fingersafe) | —                                                                                                                   | —                                    |
| Internal Metal Tracks            | Copper Alloy, Zinc Plated                                                                                           | Copper Alloy, Zinc Plated            |
| Screw Terminals                  | Copper Alloy, Zinc Plated                                                                                           | Copper Alloy, Zinc Plated            |
| Screw Style                      | —                                                                                                                   | —                                    |
| Screw Size                       | —                                                                                                                   | —                                    |
| Maximum Screw Torque             | —                                                                                                                   | —                                    |
| Terminal Connection              | Solder                                                                                                              | PCB                                  |
| Terminal Layout                  | Mix                                                                                                                 | Mix                                  |
| Maximum Wire Size                | <b>Solid Cu:</b> (Output): 18 AWG, 0.8 mm <sup>2</sup><br><b>Stranded Cu:</b> (Output): 18 AWG, 0.8 mm <sup>2</sup> | —                                    |
| DIN Rail Mounting, EN 60715      | 35 mm                                                                                                               | —                                    |
| Chassis Mount Screw Torque       | 7 lb-in / 0.8 N•m                                                                                                   | —                                    |
| Flammability Rating              | 94V-0                                                                                                               | 94V-0                                |
| Weight                           | 6.2 g (0.22 oz)                                                                                                     | 5.8 g (0.20 oz)                      |
| Agency Approvals                 | UL (E70550), CE, CSA (LR40787), RoHS                                                                                | UL (E70550), CE, CSA (LR40787), RoHS |

### Dimensions, in. (mm)

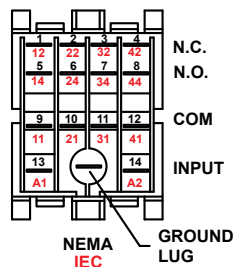


### Dimensions, in. (mm)

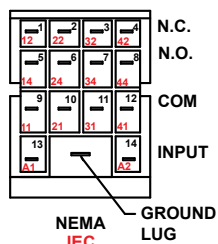


### Wiring Diagrams

**70-378-1**



**70-379-1**

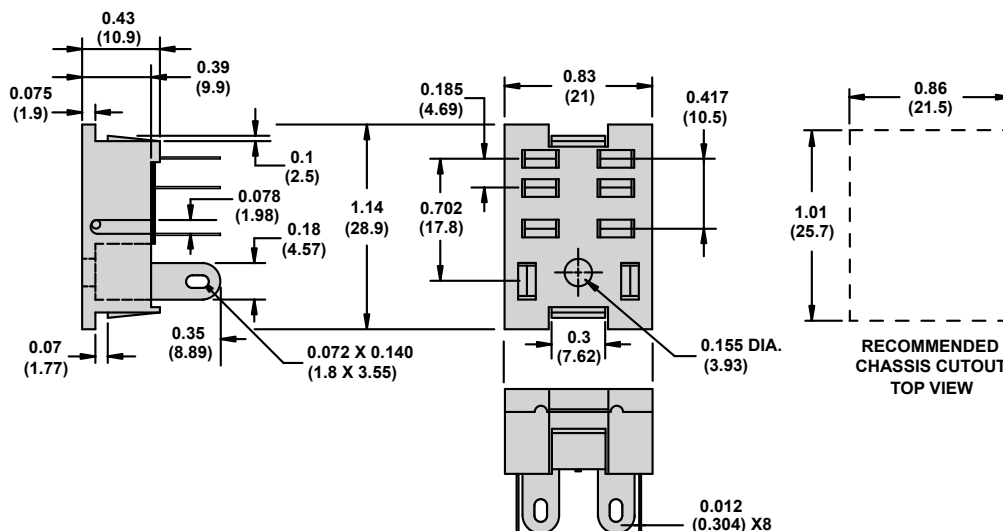


### Socket Specifications

| Part Number                      | 70-401-1                                                                                                            | 70-402-1                        |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Contact Configuration            | DPDT                                                                                                                | DPDT                            |
| Number of Terminals              | 8                                                                                                                   | 8                               |
| Mounting Style                   | Chassis                                                                                                             | PCB                             |
| Current Rating                   | 10 A                                                                                                                | 10 A                            |
| Nominal Voltage Rating           | 300 V                                                                                                               | 300 V                           |
| Storage Temperature Range        | -40 to +105 °C (-40 to +221 °F)                                                                                     | -40 to +105 °C (-40 to +221 °F) |
| Operating Temperature Range      | -40 to +55 °C (-40 to +131 °F)                                                                                      | -40 to +55 °C (-40 to +131 °F)  |
| Protection Category (Fingersafe) | —                                                                                                                   | —                               |
| Internal Metal Tracks            | Copper Alloy, Zinc Plated                                                                                           | Copper Alloy, Zinc Plated       |
| Screw Terminals                  | Copper Alloy, Zinc Plated                                                                                           | Copper Alloy, Zinc Plated       |
| Screw Style                      | Combination Head                                                                                                    | —                               |
| Screw Size                       | M3.5 mm                                                                                                             | —                               |
| Maximum Screw Torque             | 9 lb-in / 1.0 N•m                                                                                                   | —                               |
| Terminal Connection              | Solder                                                                                                              | PCB                             |
| Terminal Layout                  | Mix                                                                                                                 | Mix                             |
| Maximum Wire Size                | <b>Solid Cu:</b> (Output): 18 AWG, 0.8 mm <sup>2</sup><br><b>Stranded Cu:</b> (Output): 18 AWG, 0.8 mm <sup>2</sup> | —                               |
| DIN Rail Mounting, EN 60715      | —                                                                                                                   | —                               |
| Chassis Mount Screw Torque       | 7 lb-in / 0.8 N•m                                                                                                   | —                               |
| Flammability Rating              | 94V-0                                                                                                               | 94V-0                           |
| Weight                           | 6.2 g (0.22 oz)                                                                                                     | 6.5 g (0.23 oz)                 |
| Agency Approvals                 | UL (E70550), CE, RoHS                                                                                               | UL (E70550), CE, RoHS           |

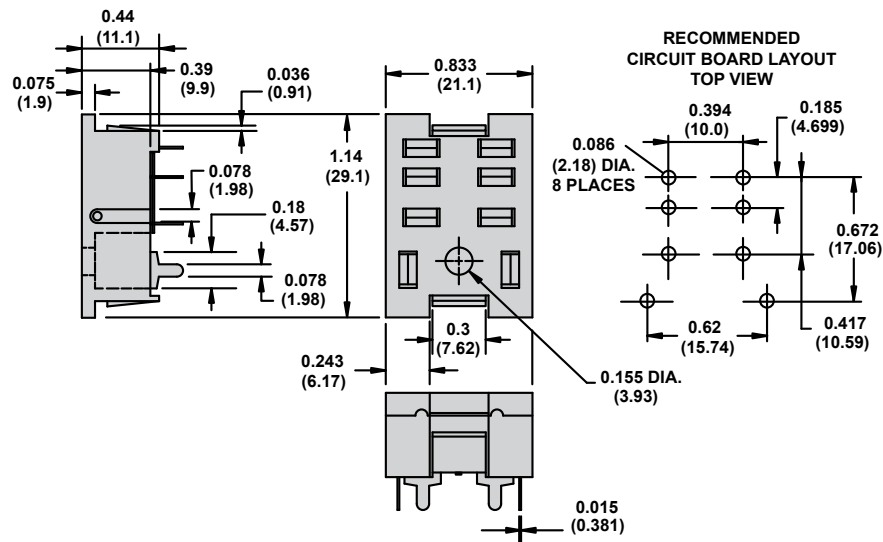
### Dimensions, in. (mm)

70-401-1



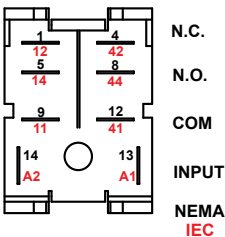
Dimensions, in. (mm)

70-402-1

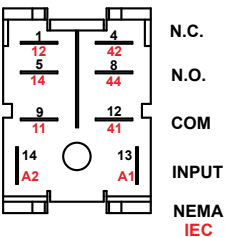


Wiring Diagrams

70-401-1



70-402-1



# Magnecraft General Purpose Relays

## Socket Specifications

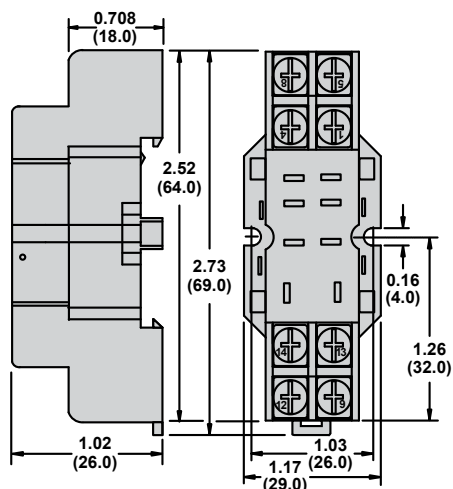
70-459-1, 70-461-1, and 70-463-1

### Socket Specifications

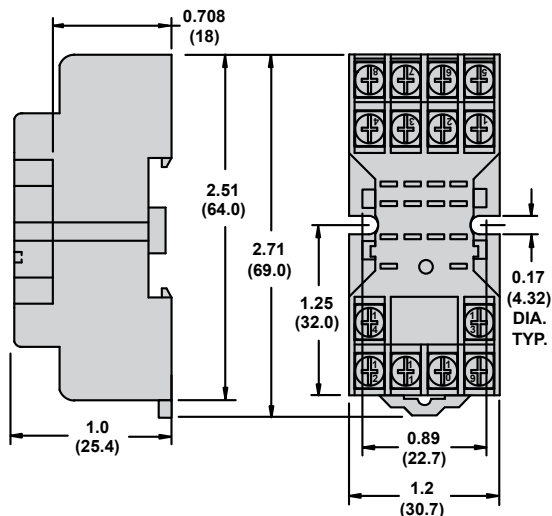
| Part Number                      | 70-459-1                                                                                                                  | 70-461-1                                                                                                                          | 70-463-1                                                                                                                     |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Contact Configuration            | DPDT                                                                                                                      | 4PDT                                                                                                                              | 3PDT                                                                                                                         |
| Number of Terminals              | 8                                                                                                                         | 14                                                                                                                                | 11                                                                                                                           |
| Mounting Style                   | Panel / DIN rail                                                                                                          | Panel / DIN rail                                                                                                                  | Panel / DIN rail                                                                                                             |
| Current Rating                   | 10 A                                                                                                                      | 10 A                                                                                                                              | 15 A                                                                                                                         |
| Nominal Voltage Rating           | 300 V                                                                                                                     | 300 V                                                                                                                             | 300 V                                                                                                                        |
| Storage Temperature Range        | -40 to +105 °C (-40 to +221 °F)                                                                                           | -40 to +105 °C (-40 to +221 °F)                                                                                                   | -40 to +105 °C (-40 to +221 °F)                                                                                              |
| Operating Temperature Range      | -40 to +55 °C (-40 to +131 °F)                                                                                            | -40 to +70 °C (-40 to +158 °F)                                                                                                    | -40 to +55 °C (-40 to +131 °F)                                                                                               |
| Protection Category (Fingersafe) | —                                                                                                                         | —                                                                                                                                 | —                                                                                                                            |
| Internal Metal Tracks            | Copper Alloy, Zinc Plated                                                                                                 | Copper Alloy, Zinc Plated                                                                                                         | Copper Alloy, Zinc Plated                                                                                                    |
| Screw Terminals                  | Steel, Zinc Plated                                                                                                        | Steel, Zinc Plated                                                                                                                | Steel, Zinc Plated                                                                                                           |
| Screw Style                      | Combination Head                                                                                                          | Combination Head                                                                                                                  | Combination Head                                                                                                             |
| Screw Size                       | M3.5 mm                                                                                                                   | M3 mm                                                                                                                             | M3.5 mm                                                                                                                      |
| Maximum Screw Torque             | 9 lb-in / 1.0 N•m                                                                                                         | 7 lb-in / 0.8 N•m                                                                                                                 | 9 lb-in / 1.0 N•m                                                                                                            |
| Terminal Connection              | Screw Clamping                                                                                                            | Elevator                                                                                                                          | Screw Clamping                                                                                                               |
| Terminal Layout                  | Mix                                                                                                                       | Separate                                                                                                                          | Mix                                                                                                                          |
| Maximum Wire Size                | <b>Solid Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup><br><b>Stranded Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup> | <b>Solid Cu:</b> two 16–14 AWG;<br>two 1.5–2.5mm <sup>2</sup><br><b>Stranded Cu:</b> two 16–14 AWG;<br>two 1.5–2.5mm <sup>2</sup> | <b>Solid Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup><br><b>Stranded Cu:</b> two 14–12 AWG;<br>two 2.5–4 mm <sup>2</sup> |
| DIN Rail Mounting, EN 60715      | 35 mm                                                                                                                     | 35 mm                                                                                                                             | 35 mm                                                                                                                        |
| Chassis Mount Screw Torque       | 7 lb-in / 0.8 N•m                                                                                                         | 7 lb-in / 0.8 N•m                                                                                                                 | 7 lb-in / 0.8 N•m                                                                                                            |
| Flammability Rating              | 94V-0                                                                                                                     | 94V-0                                                                                                                             | 94V-0                                                                                                                        |
| Weight                           | 50 g (1.76 oz)                                                                                                            | 50 g (1.76 oz)                                                                                                                    | 51 g (1.79 oz)                                                                                                               |
| Agency Approvals                 | UL (E70550), CE, CSA (LR97899), RoHS                                                                                      | UL (E70550), CE, CSA (LR97899), RoHS                                                                                              | UL (E70550), CE, CSA (LR97899), RoHS                                                                                         |

### Dimensions, in. (mm)

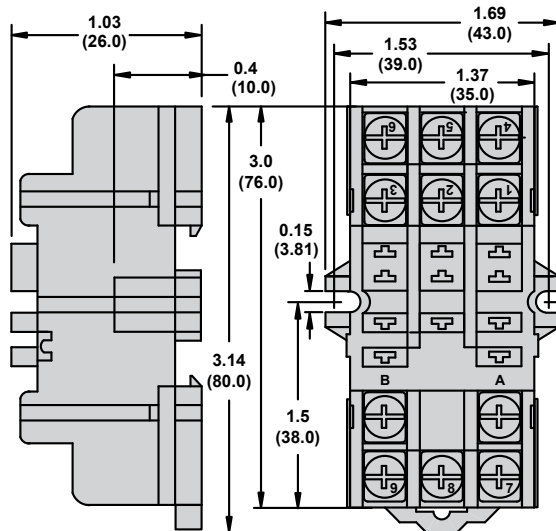
70-459-1



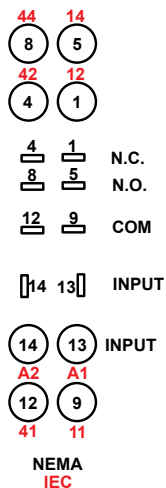
70-461-1



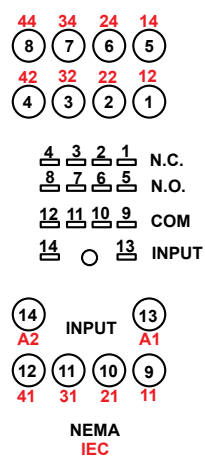
**70-463-1**



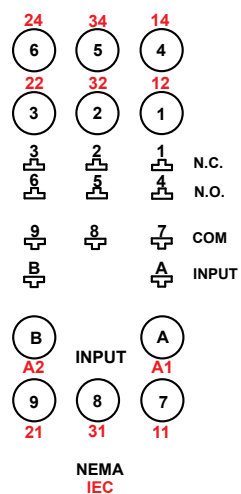
**70-459-1**



**70-461-1**



**70-463-1**

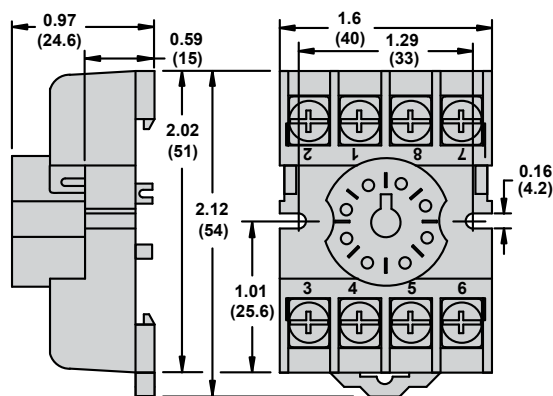


### Socket Specifications

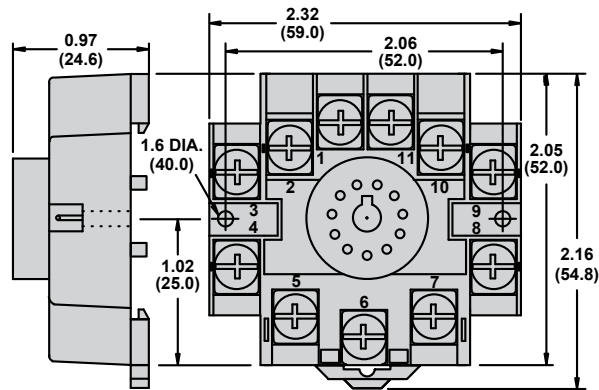
| Part Number                      | 70-464-1                                                                                                                  | 70-465-1                                                                                                                  |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Contact Configuration            | DPDT                                                                                                                      | 3PDT                                                                                                                      |
| Number of Terminals              | 8                                                                                                                         | 11                                                                                                                        |
| Mounting Style                   | Panel / DIN rail                                                                                                          | Panel / DIN rail                                                                                                          |
| Current Rating                   | 15 / 10 A                                                                                                                 | 15 / 5 A                                                                                                                  |
| Nominal Voltage Rating           | 300 / 600 V                                                                                                               | 300 / 600 V                                                                                                               |
| Storage Temperature Range        | -40 to +105 °C (-40 to +221 °F)                                                                                           | -40 to +105 °C (-40 to +221 °F)                                                                                           |
| Operating Temperature Range      | -40 to +55 °C (-40 to +131 °F)                                                                                            | -40 to +55 °C (-40 to +131 °F)                                                                                            |
| Protection Category (Fingersafe) | —                                                                                                                         | —                                                                                                                         |
| Internal Metal Tracks            | Copper Alloy, Zinc Plated                                                                                                 | Copper Alloy, Zinc Plated                                                                                                 |
| Screw Terminals                  | Steel, Zinc Plated                                                                                                        | Steel, Zinc Plated                                                                                                        |
| Screw Style                      | Combination Head                                                                                                          | Combination Head                                                                                                          |
| Screw Size                       | M3.5 mm                                                                                                                   | M3.5 mm                                                                                                                   |
| Maximum Screw Torque             | 9 lb-in / 1.0 N•m                                                                                                         | 9 lb-in / 1.0 N•m                                                                                                         |
| Terminal Connection              | Screw Clamping                                                                                                            | Screw Clamping                                                                                                            |
| Terminal Layout                  | Mix                                                                                                                       | Mix                                                                                                                       |
| Maximum Wire Size                | <b>Solid Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup><br><b>Stranded Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup> | <b>Solid Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup><br><b>Stranded Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup> |
| DIN Rail Mounting, EN 60715      | 35 mm                                                                                                                     | 35 mm                                                                                                                     |
| Chassis Mount Screw Torque       | 7 lb-in / 0.8 N•m                                                                                                         | 7 lb-in / 0.8 N•m                                                                                                         |
| Flammability Rating              | 94V-0                                                                                                                     | 94V-0                                                                                                                     |
| Weight                           | 40 g (1.41 oz)                                                                                                            | 57 g (2.01 oz)                                                                                                            |
| Agency Approvals                 | UL (E70550), CE, CSA (LR97899), RoHS                                                                                      | UL (E70550), CE, CSA (LR97899), RoHS                                                                                      |

### Dimensions, in. (mm)

70-464-1

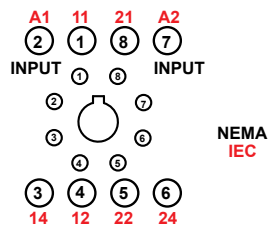


70-465-1

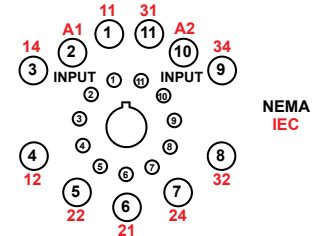


### Wiring Diagrams

70-464-1



70-465-1



# Magnecraft General Purpose Relays

## Socket Specifications

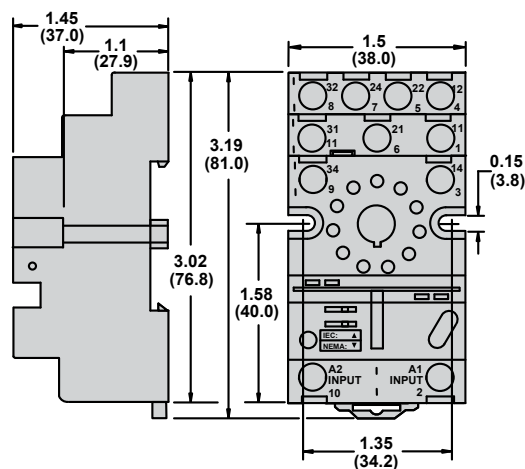
### 70-750DL8-1 and 70-750DL11-1

## Socket Specifications

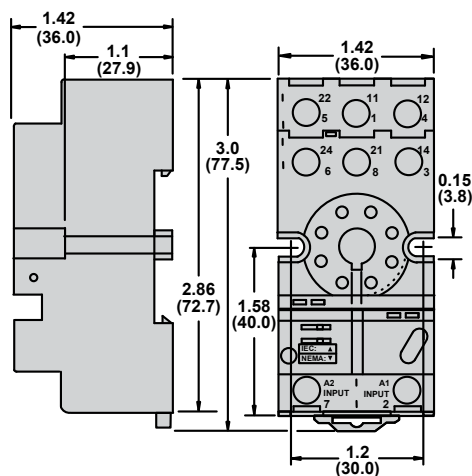
| Part Number                      | 70-750DL8-1                                                                                                               | 70-750DL11-1                                                                                                              |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Contact Configuration            | DPDT                                                                                                                      | 3PDT                                                                                                                      |
| Number of Terminals              | 8                                                                                                                         | 11                                                                                                                        |
| Mounting Style                   | Panel / DIN rail                                                                                                          | Panel / DIN rail                                                                                                          |
| Current Rating                   | 16 A                                                                                                                      | 16 A                                                                                                                      |
| Nominal Voltage Rating           | 300 V                                                                                                                     | 600 V                                                                                                                     |
| Storage Temperature Range        | -40 to +105 °C (-40 to +221 °F)                                                                                           | -40 to +105 °C (-40 to +221 °F)                                                                                           |
| Operating Temperature Range      | -40 to +55 °C (-40 to +131 °F)                                                                                            | -40 to +55 °C (-40 to +131 °F)                                                                                            |
| Protection Category (Fingersafe) | IP20                                                                                                                      | IP20                                                                                                                      |
| Internal Metal Tracks            | Copper Alloy, Zinc Plated                                                                                                 | Copper Alloy, Zinc Plated                                                                                                 |
| Screw Terminals                  | Steel, Zinc Plated                                                                                                        | Steel, Zinc Plated                                                                                                        |
| Screw Style                      | Combination Head                                                                                                          | Combination Head                                                                                                          |
| Screw Size                       | M3.5 mm                                                                                                                   | M3.5 mm                                                                                                                   |
| Maximum Screw Torque             | 9 lb-in / 1.0 N•m                                                                                                         | 9 lb-in / 1.0 N•m                                                                                                         |
| Terminal Connection              | Screw Clamping                                                                                                            | Screw Clamping                                                                                                            |
| Terminal Layout                  | Mix                                                                                                                       | Mix                                                                                                                       |
| Maximum Wire Size                | <b>Solid Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup><br><b>Stranded Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup> | <b>Solid Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup><br><b>Stranded Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup> |
| DIN Rail Mounting, EN 60715      | 35 mm                                                                                                                     | 35 mm                                                                                                                     |
| Chassis Mount Screw Torque       | 7 lb-in / 0.8 N•m                                                                                                         | 7 lb-in / 0.8 N•m                                                                                                         |
| Flammability Rating              | 94V-0                                                                                                                     | 94V-0                                                                                                                     |
| Weight                           | 60 g (2.12 oz)                                                                                                            | 78 g (2.75 oz)                                                                                                            |
| Agency Approvals                 | UL (E70550), CE, CSA (LR40787), RoHS                                                                                      | UL (E70550), CE, CSA (LR40787), RoHS                                                                                      |

## Dimensions, in. (mm)

70-750DL11-1

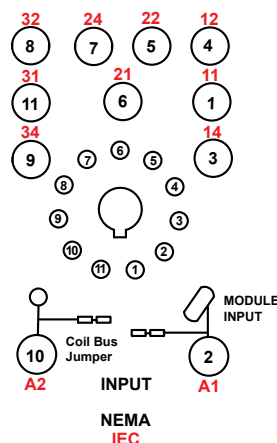


70-750DL8-1

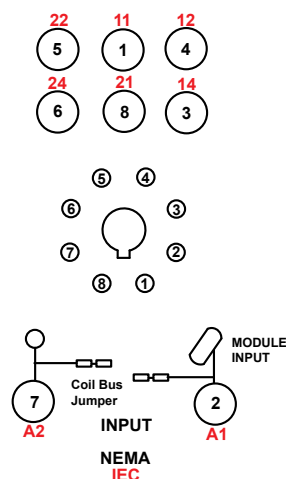


## Wiring Diagrams

70-750DL11-1



70-750DL8-1

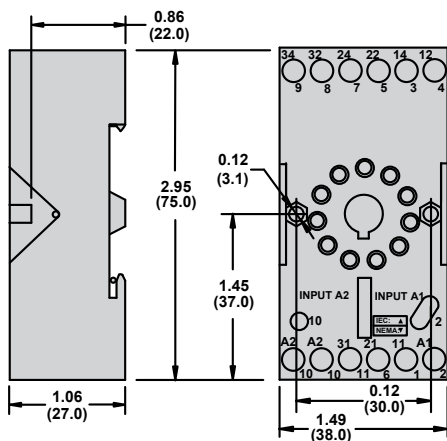


## Socket Specifications

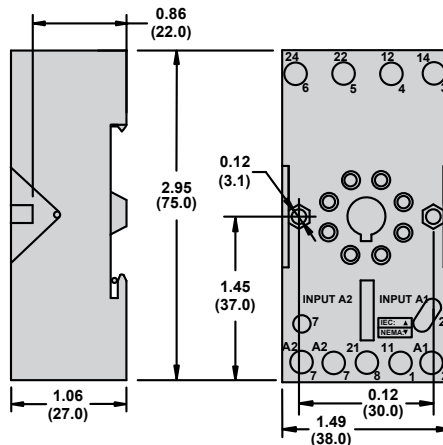
| Part Number                      | 70-750E8-1                                                                                                                | 70-750E11-1                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Contact Configuration            | DPDT                                                                                                                      | 3PDT                                                                                                                      |
| Number of Terminals              | 8                                                                                                                         | 11                                                                                                                        |
| Mounting Style                   | Panel / DIN rail                                                                                                          | Panel / DIN rail                                                                                                          |
| Current Rating                   | 12 A                                                                                                                      | 12 A                                                                                                                      |
| Nominal Voltage Rating           | 300 V                                                                                                                     | 300 V                                                                                                                     |
| Storage Temperature Range        | -40 to +105 °C (-40 to +221 °F)                                                                                           | -40 to +105 °C (-40 to +221 °F)                                                                                           |
| Operating Temperature Range      | -40 to +55 °C (-40 to +131 °F)                                                                                            | -40 to +55 °C (-40 to +131 °F)                                                                                            |
| Protection Category (Fingersafe) | IP20                                                                                                                      | IP20                                                                                                                      |
| Internal Metal Tracks            | Copper Alloy, Zinc Plated                                                                                                 | Copper Alloy, Zinc Plated                                                                                                 |
| Screw Terminals                  | Steel, Zinc Plated                                                                                                        | Steel, Zinc Plated                                                                                                        |
| Screw Style                      | Combination Head                                                                                                          | Combination Head                                                                                                          |
| Screw Size                       | M3.5 mm                                                                                                                   | M3.5 mm                                                                                                                   |
| Maximum Screw Torque             | 9 lb-in / 1.0 N•m                                                                                                         | 9 lb-in / 1.0 N•m                                                                                                         |
| Terminal Connection              | Elevator                                                                                                                  | Elevator                                                                                                                  |
| Terminal Layout                  | Separate                                                                                                                  | Separate                                                                                                                  |
| Maximum Wire Size                | <b>Solid Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup><br><b>Stranded Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup> | <b>Solid Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup><br><b>Stranded Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup> |
| DIN Rail Mounting, EN 60715      | 35 mm                                                                                                                     | 35 mm                                                                                                                     |
| Chassis Mount Screw Torque       | 7 lb-in / 0.8 N•m                                                                                                         | 7 lb-in / 0.8 N•m                                                                                                         |
| Flammability Rating              | 94V-0                                                                                                                     | 94V-0                                                                                                                     |
| Weight                           | 85 g (3.0 oz)                                                                                                             | 85 g (3.0 oz)                                                                                                             |
| Agency Approvals                 | UL (E70550), CE, CSA (LR40787), RoHS                                                                                      | UL (E70550), CE, CSA (LR40787), RoHS                                                                                      |

### Dimensions, in. (mm)

70-750E11-1

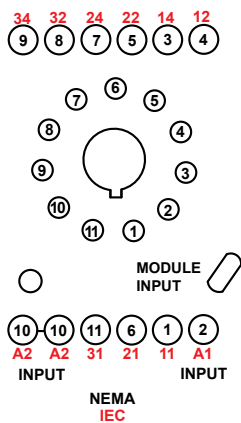


70-750E8-1

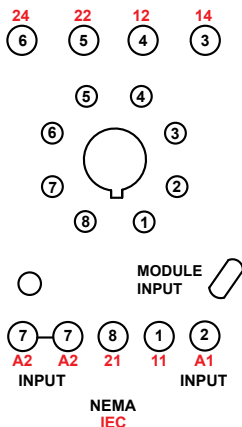


### Wiring Diagrams

70-750E11-1



70-750E8-1



# Magnecraft General Purpose Relays

## Socket Specifications

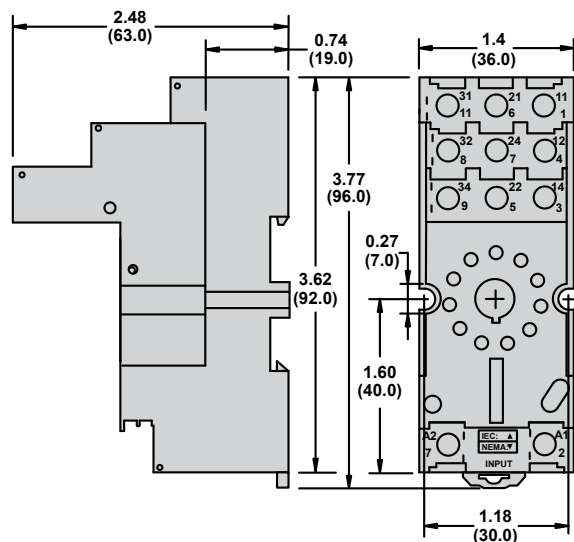
### 70-750EL8-1 and 70-750EL11-1

## Socket Specifications

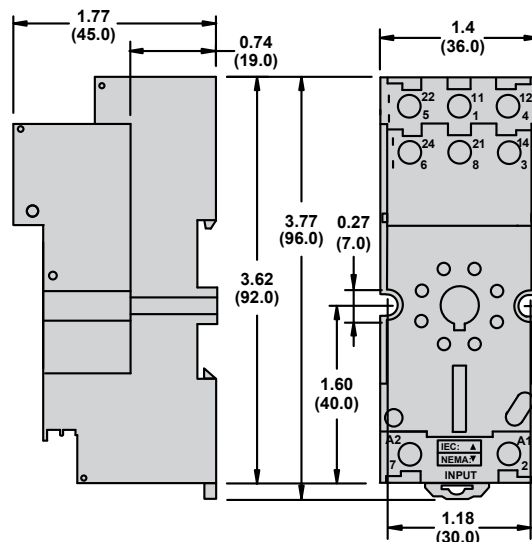
| Part Number                      | 70-750EL8-1                                                                                                               | 70-750EL11-1                                                                                                              |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Contact Configuration            | DPDT                                                                                                                      | 3PDT                                                                                                                      |
| Number of Terminals              | 8                                                                                                                         | 11                                                                                                                        |
| Mounting Style                   | Panel / DIN rail                                                                                                          | Panel / DIN rail                                                                                                          |
| Current Rating                   | 16 A                                                                                                                      | 16 A                                                                                                                      |
| Nominal Voltage Rating           | 300 V                                                                                                                     | 300 V                                                                                                                     |
| Storage Temperature Range        | -40 to +105 °C (-40 to +221 °F)                                                                                           | -40 to +105 °C (-40 to +221 °F)                                                                                           |
| Operating Temperature Range      | -40 to +55 °C (-40 to +131 °F)                                                                                            | -40 to +55 °C (-40 to +131 °F)                                                                                            |
| Protection Category (Fingersafe) | IP20                                                                                                                      | IP20                                                                                                                      |
| Internal Metal Tracks            | Copper Alloy, Zinc Plated                                                                                                 | Copper Alloy, Zinc Plated                                                                                                 |
| Screw Terminals                  | Steel, Zinc Plated                                                                                                        | Steel, Zinc Plated                                                                                                        |
| Screw Style                      | Combination Head                                                                                                          | Combination Head                                                                                                          |
| Screw Size                       | M3.5 mm                                                                                                                   | M3.5 mm                                                                                                                   |
| Maximum Screw Torque             | 9 lb-in / 1.0 N•m                                                                                                         | 9 lb-in / 1.0 N•m                                                                                                         |
| Terminal Connection              | Elevator                                                                                                                  | Elevator                                                                                                                  |
| Terminal Layout                  | Separate                                                                                                                  | Separate                                                                                                                  |
| Maximum Wire Size                | <b>Solid Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup><br><b>Stranded Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup> | <b>Solid Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup><br><b>Stranded Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup> |
| DIN Rail Mounting, EN 60715      | 35 mm                                                                                                                     | 35 mm                                                                                                                     |
| Chassis Mount Screw Torque       | 7 lb-in / 0.8 N•m                                                                                                         | 7 lb-in / 0.8 N•m                                                                                                         |
| Flammability Rating              | 94V-0                                                                                                                     | 94V-0                                                                                                                     |
| Weight                           | 79 g (2.79 oz)                                                                                                            | 79 g (2.79 oz)                                                                                                            |
| Agency Approvals                 | UL (E70550), CE, CSA (LR40787), RoHS                                                                                      | UL (E70550), CE, CSA (LR40787), RoHS                                                                                      |

## Dimensions, in. (mm)

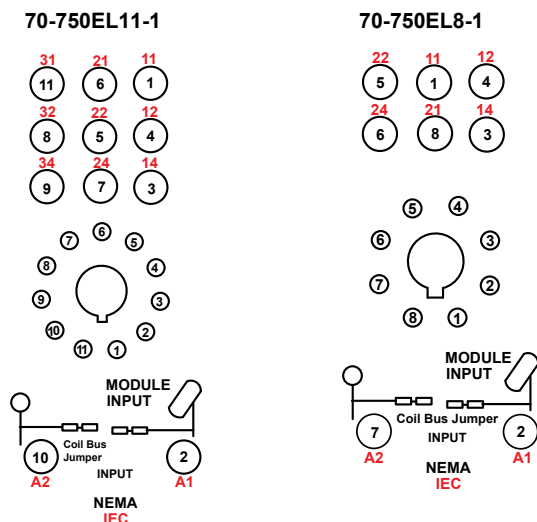
70-750EL11-1



70-750EL8-1



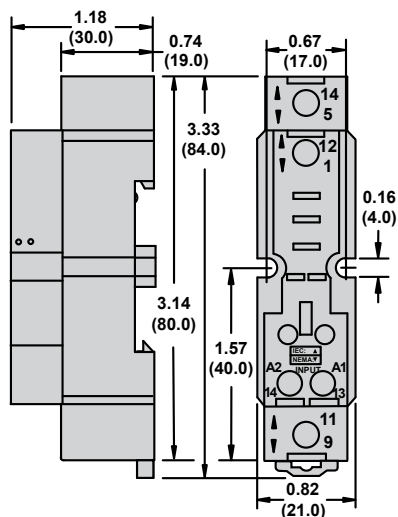
### Wiring Diagrams



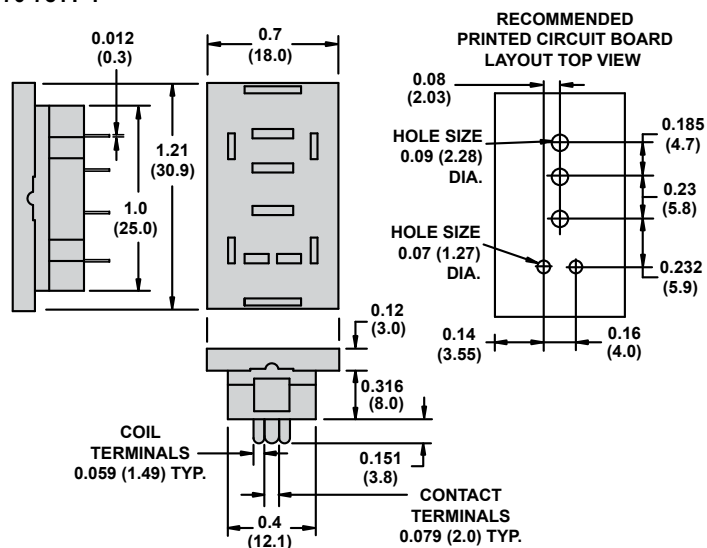
### Socket Specifications

| Part Number                      | 70-781D5R-1A                                                                                                              | 70-781T-1                       |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Contact Configuration            | SPDT                                                                                                                      | SPDT                            |
| Number of Terminals              | 5                                                                                                                         | 5                               |
| Mounting Style                   | Panel / DIN rail                                                                                                          | PCB                             |
| Current Rating                   | 16 A                                                                                                                      | 10 A                            |
| Nominal Voltage Rating           | 300 V                                                                                                                     | 300 V                           |
| Storage Temperature Range        | -40 to +105 °C (-40 to +221 °F)                                                                                           | -40 to +105 °C (-40 to +221 °F) |
| Operating Temperature Range      | -40 to +55 °C (-40 to +131 °F)                                                                                            | -40 to +55 °C (-40 to +131 °F)  |
| Protection Category (Fingersafe) | IP20                                                                                                                      | –                               |
| Internal Metal Tracks            | Copper Alloy, Zinc Plated                                                                                                 | Copper Alloy, Zinc Plated       |
| Screw Terminals                  | Steel, Zinc Plated                                                                                                        | Copper Alloy, Zinc Plated       |
| Screw Style                      | Combination Head                                                                                                          | –                               |
| Screw Size                       | M3 mm / M3.5 mm                                                                                                           | –                               |
| Maximum Screw Torque             | M3 : 9 lb-in / 0.8 N•m; M3.5 : 9 lb-in / 1.0 N•m                                                                          | –                               |
| Terminal Connection              | Screw Clamping                                                                                                            | PCB                             |
| Terminal Layout                  | Mix                                                                                                                       | Mix                             |
| Maximum Wire Size                | <b>Solid Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup><br><b>Stranded Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup> | –                               |
| DIN Rail Mounting, EN 60715      | 35 mm                                                                                                                     | –                               |
| Chassis Mount Screw Torque       | 7 lb-in / 0.8 N•m                                                                                                         | –                               |
| Flammability Rating              | 94V-0                                                                                                                     | 94V-0                           |
| Weight                           | 31 g (1.09 oz)                                                                                                            | 18 g (0.63 oz)                  |
| Agency Approvals                 | UL (E70550), CE, CSA (168986), RoHS                                                                                       | UL (E70550), CE, RoHS           |

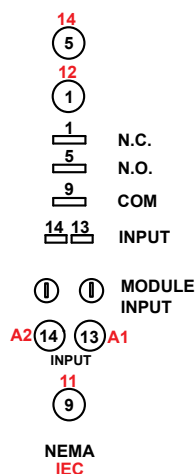
**70-781D5R-1A**



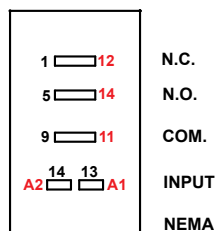
**70-781T-1**



**70-781D5R-1A**



**70-781T-1**



# Magnecraft General Purpose Relays

## Socket Specifications

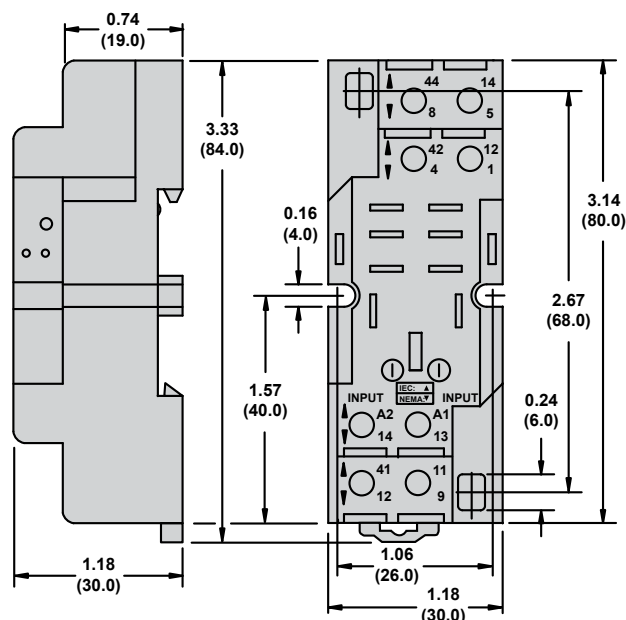
### 70-782D8-1A and 70-782D14-1

## Socket Specifications

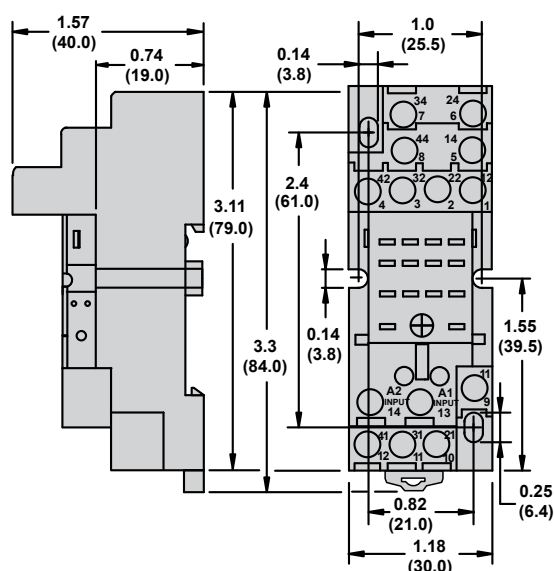
| Part Number                      | 70-782D8-1A                                                                                                               | 70-782D14-1                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Contact Configuration            | DPDT                                                                                                                      | 4PDT                                                                                                                      |
| Number of Terminals              | 8                                                                                                                         | 14                                                                                                                        |
| Mounting Style                   | Panel / DIN rail                                                                                                          | Panel / DIN rail                                                                                                          |
| Current Rating                   | 16 A                                                                                                                      | 10 A                                                                                                                      |
| Nominal Voltage Rating           | 300 V                                                                                                                     | 300 V                                                                                                                     |
| Storage Temperature Range        | -40 to +105 °C (-40 to +221 °F)                                                                                           | -40 to +105 °C (-40 to +221 °F)                                                                                           |
| Operating Temperature Range      | -40 to +55 °C (-40 to +131 °F)                                                                                            | -40 to +70 °C (-40 to +158 °F)                                                                                            |
| Protection Category (Fingersafe) | IP20                                                                                                                      | IP20                                                                                                                      |
| Internal Metal Tracks            | Copper Alloy, Zinc Plated                                                                                                 | Copper Alloy, Zinc Plated                                                                                                 |
| Screw Terminals                  | Steel, Zinc Plated                                                                                                        | Steel, Zinc Plated                                                                                                        |
| Screw Style                      | Combination Head                                                                                                          | Combination Head                                                                                                          |
| Screw Size                       | M3.5 mm                                                                                                                   | M3 mm                                                                                                                     |
| Maximum Screw Torque             | 9 lb-in / 1.0 N•m                                                                                                         | 7 lb-in / 0.8 N•m                                                                                                         |
| Terminal Connection              | Screw Clamping                                                                                                            | Screw Clamping                                                                                                            |
| Terminal Layout                  | Mix                                                                                                                       | Mix                                                                                                                       |
| Maximum Wire Size                | <b>Solid Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup><br><b>Stranded Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup> | <b>Solid Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup><br><b>Stranded Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup> |
| DIN Rail Mounting, EN 60715      | 35 mm                                                                                                                     | 35 mm                                                                                                                     |
| Chassis Mount Screw Torque       | 7 lb-in / 0.8 N•m                                                                                                         | 7 lb-in / 0.8 N•m                                                                                                         |
| Flammability Rating              | 94V-0                                                                                                                     | 94V-0                                                                                                                     |
| Weight                           | 55 g (1.94 oz)                                                                                                            | 62 g (2.19 oz)                                                                                                            |
| Agency Approvals                 | UL (E70550), CE, CSA (LR40787), RoHS                                                                                      | UL (E70550), CE, CSA (LR40787), RoHS                                                                                      |

## Dimensions, in. (mm)

70-782D8-1A



70-782D14-1



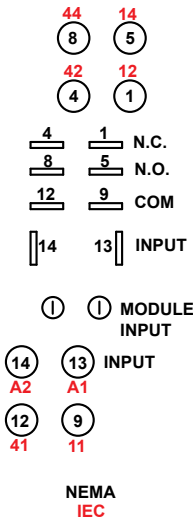
# Magnecraft General Purpose Relays

## Socket Specifications

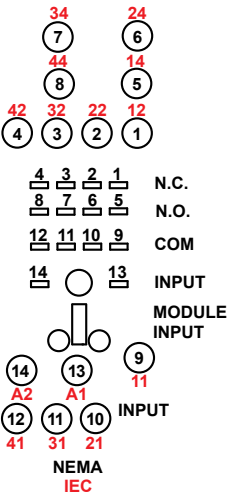
70-782D8-1A, 70-782D14-1, 70-782E14-1,  
and 70-782EL8-1

### Wiring Diagrams

70-782D8-1A



70-782D14-1



### Socket Specifications

| Part Number                      | 70-782E14-1                                                                                                                   | 70-782EL8-1                                                                                                               |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Contact Configuration            | 4PDT                                                                                                                          | DPDT                                                                                                                      |
| Number of Terminals              | 14                                                                                                                            | 8                                                                                                                         |
| Mounting Style                   | Panel / DIN rail                                                                                                              | Panel / DIN rail                                                                                                          |
| Current Rating                   | 10 A                                                                                                                          | 12 A                                                                                                                      |
| Nominal Voltage Rating           | 300 V                                                                                                                         | 300 V                                                                                                                     |
| Storage Temperature Range        | -40 to +105 °C (-40 to +221 °F)                                                                                               | -40 to +105 °C (-40 to +221 °F)                                                                                           |
| Operating Temperature Range      | -40 to +70 °C (-40 to +158 °F)                                                                                                | -40 to +55 °C (-40 to +131 °F)                                                                                            |
| Protection Category (Fingersafe) | IP20                                                                                                                          | IP20                                                                                                                      |
| Internal Metal Tracks            | Copper Alloy, Zinc Plated                                                                                                     | Copper Alloy, Zinc Plated                                                                                                 |
| Screw Terminals                  | Steel, Zinc Plated                                                                                                            | Steel, Zinc Plated                                                                                                        |
| Screw Style                      | Combination Head                                                                                                              | Combination Head                                                                                                          |
| Screw Size                       | M3 mm                                                                                                                         | M3.5 mm                                                                                                                   |
| Maximum Screw Torque             | 7 lb-in / 0.8 N•m                                                                                                             | 9 lb-in / 1.0 N•m                                                                                                         |
| Terminal Connection              | Elevator                                                                                                                      | Elevator                                                                                                                  |
| Terminal Layout                  | Separate                                                                                                                      | Separate                                                                                                                  |
| Maximum Wire Size                | <b>Solid Cu:</b> two 16-14 AWG; two 1.5-2.5 mm <sup>2</sup><br><b>Stranded Cu:</b> two 16-14 AWG; two 1.5-2.5 mm <sup>2</sup> | <b>Solid Cu:</b> two 14-12 AWG; two 2.5-4 mm <sup>2</sup><br><b>Stranded Cu:</b> two 14-12 AWG; two 2.5-4 mm <sup>2</sup> |
| DIN Rail Mounting, EN 60715      | 35 mm                                                                                                                         | 35 mm                                                                                                                     |
| Chassis Mount Screw Torque       | 7 lb-in / 0.8 N•m                                                                                                             | 7 lb-in / 0.8 N•m                                                                                                         |
| Flammability Rating              | 94V-0                                                                                                                         | 94V-0                                                                                                                     |
| Weight                           | 56 g (1.98 oz)                                                                                                                | 46 g (1.62 oz)                                                                                                            |
| Agency Approvals                 | UL (E70550) CE, CSA (LR40787), RoHS                                                                                           | UL (E70550), CE, CSA (LR40787), RoHS                                                                                      |

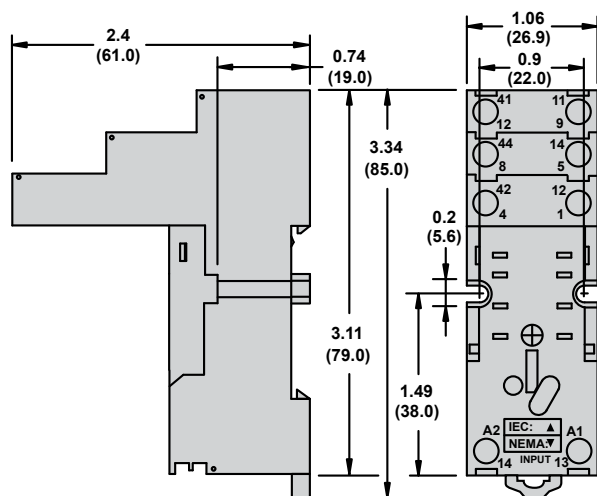
# Magnecraft General Purpose Relays

## Socket Specifications

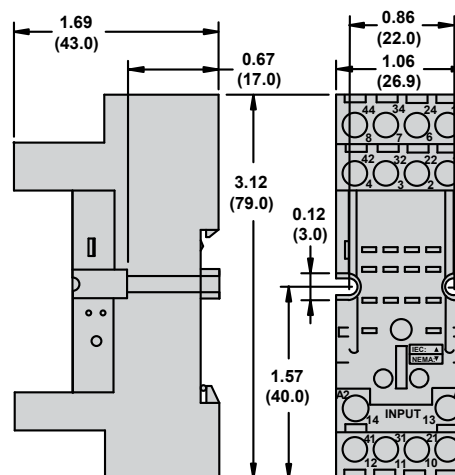
### 70-782E14-1 and 70-782EL8-1

## Dimensions, in. (mm)

70-782EL8-1

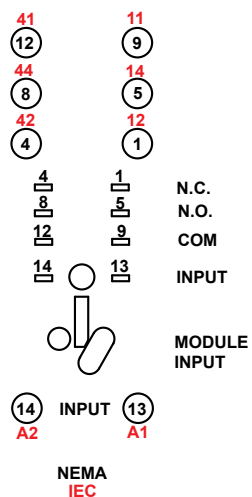


70-782E14-1

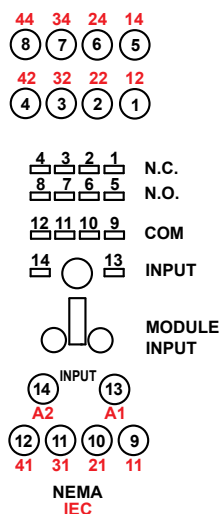


## Wiring Diagrams

70-782EL8-1



70-782E14-1

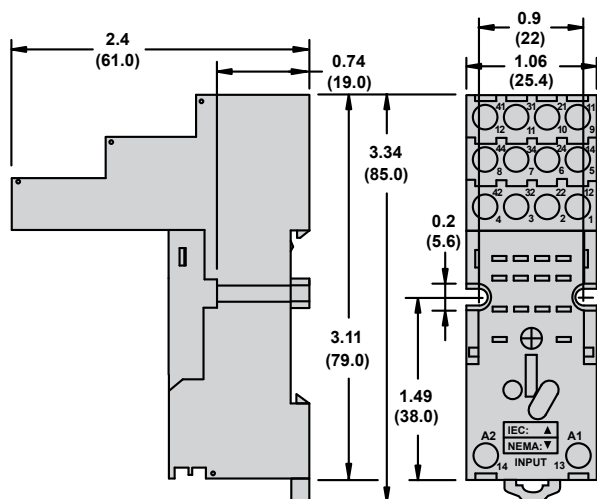


## Socket Specifications

| Part Number                      | 70-782EL14-1                                                                                                                  |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Contact Configuration            | 4PDT                                                                                                                          |
| Number of Terminals              | 14                                                                                                                            |
| Mounting Style                   | Panel / DIN rail                                                                                                              |
| Current Rating                   | 10 A                                                                                                                          |
| Nominal Voltage Rating           | 300 V                                                                                                                         |
| Storage Temperature Range        | -40 to +105 °C (-40 to +221 °F)                                                                                               |
| Operating Temperature Range      | -40 to +70 °C (-40 to +158 °F)                                                                                                |
| Protection Category (Fingersafe) | IP20                                                                                                                          |
| Internal Metal Tracks            | Copper Alloy, Zinc Plated                                                                                                     |
| Screw Terminals                  | Steel, Zinc Plated                                                                                                            |
| Screw Style                      | Combination Head                                                                                                              |
| Screw Size                       | M3 mm                                                                                                                         |
| Maximum Screw Torque             | 7 lb-in / 0.8 N•m                                                                                                             |
| Terminal Connection              | Elevator                                                                                                                      |
| Terminal Layout                  | Separate                                                                                                                      |
| Maximum Wire Size                | <b>Solid Cu:</b> two 16–14 AWG; two 1.5–2.5 mm <sup>2</sup><br><b>Stranded Cu:</b> two 16–14 AWG; two 1.5–2.5 mm <sup>2</sup> |
| DIN Rail Mounting, EN 60715      | 35 mm                                                                                                                         |
| Chassis Mount Screw Torque       | 7 lb-in / 0.8 N•m                                                                                                             |
| Flammability Rating              | 94V-0                                                                                                                         |
| Weight                           | 62 g (2.19 oz)                                                                                                                |
| Agency Approvals                 | UL (E70550), CE, CSA (LR40787), RoHS                                                                                          |

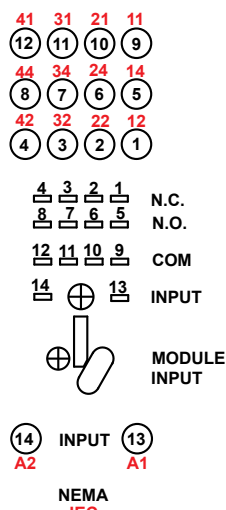
## Dimensions, in. (mm)

70-782EL14-1



## Wiring Diagram

70-782EL14-1



#### Socket Specifications

| Part Number                      | 70-783D11-1A                                                                                                              | 70-784D14-1                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Contact Configuration            | 3PDT                                                                                                                      | 4PDT                                                                                                                      |
| Number of Terminals              | 11                                                                                                                        | 14                                                                                                                        |
| Mounting Style                   | Panel / DIN rail                                                                                                          | Panel / DIN rail                                                                                                          |
| Current Rating                   | 16 A                                                                                                                      | 16 A                                                                                                                      |
| Nominal Voltage Rating           | 300 V                                                                                                                     | 300 V                                                                                                                     |
| Storage Temperature Range        | -40 to +105 °C (-40 to +221 °F)                                                                                           | -40 to +105 °C (-40 to +221 °F)                                                                                           |
| Operating Temperature Range      | -40 to +55 °C (-40 to +131 °F)                                                                                            | -40 to +55 °C (-40 to +131 °F)                                                                                            |
| Protection Category (Fingersafe) | IP20                                                                                                                      | IP20                                                                                                                      |
| Internal Metal Tracks            | Copper Alloy, Zinc Plated                                                                                                 | Copper Alloy, Zinc Plated                                                                                                 |
| Screw Terminals                  | Steel, Zinc Plated                                                                                                        | Steel, Zinc Plated                                                                                                        |
| Screw Style                      | Combination Head                                                                                                          | Combination Head                                                                                                          |
| Screw Size                       | M3.5 mm                                                                                                                   | M3.5 mm                                                                                                                   |
| Maximum Screw Torque             | 9 lb-in / 1.0 N•m                                                                                                         | 9 lb-in / 1.0 N•m                                                                                                         |
| Terminal Connection              | Screw Clamping                                                                                                            | Screw Clamping                                                                                                            |
| Terminal Layout                  | Mix                                                                                                                       | Mix                                                                                                                       |
| Maximum Wire Size                | <b>Solid Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup><br><b>Stranded Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup> | <b>Solid Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup><br><b>Stranded Cu:</b> two 14–12 AWG; two 2.5–4 mm <sup>2</sup> |
| DIN Rail Mounting, EN 60715      | 35 mm                                                                                                                     | 35 mm                                                                                                                     |
| Chassis Mount Screw Torque       | 7 lb-in / 0.8 N•m                                                                                                         | 7 lb-in / 0.8 N•m                                                                                                         |
| Flammability Rating              | 94V-0                                                                                                                     | 94V-0                                                                                                                     |
| Weight                           | 55 g (1.94oz)                                                                                                             | 62 g (2.19 oz)                                                                                                            |
| Agency Approvals                 | CE, RoHS, UL (E70550), CSA (LR40787)                                                                                      | CE, RoHS, UL (E70550), CSA (LR40787)                                                                                      |

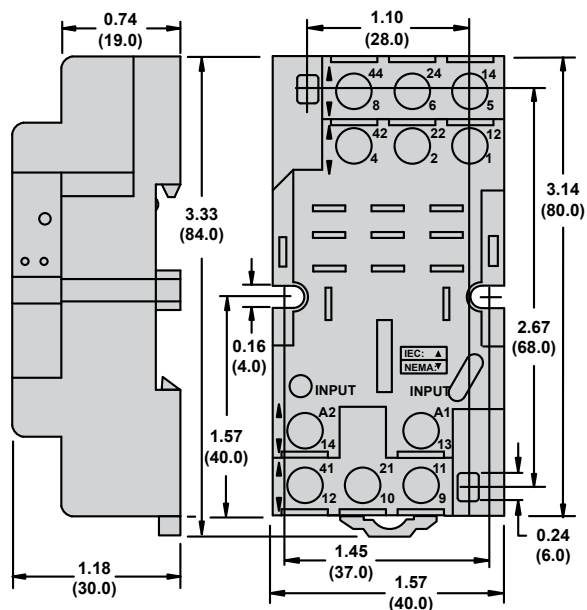
# Magnecraft General Purpose Relays

## Socket Specifications

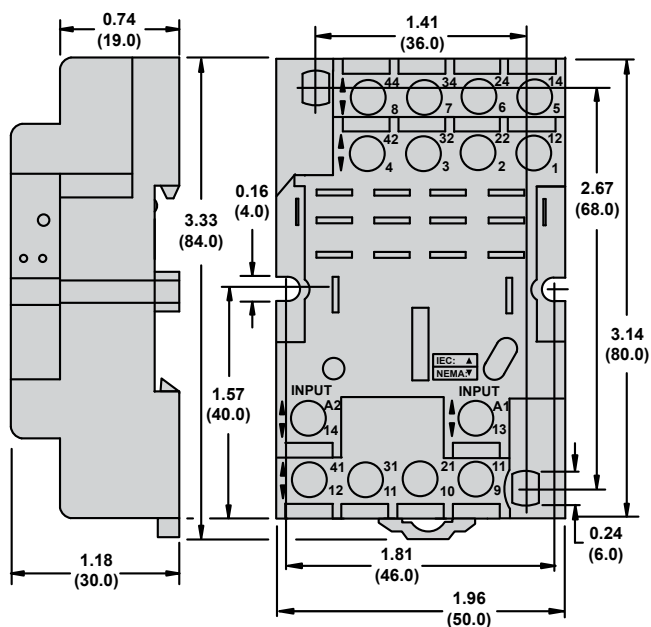
70-783D11-1A and 70-784D14-1

### Dimensions, in. (mm)

70-783D11-1A

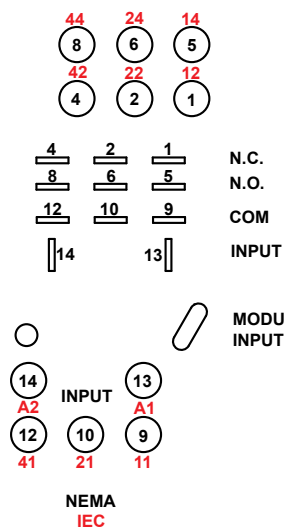


70-784D14-1

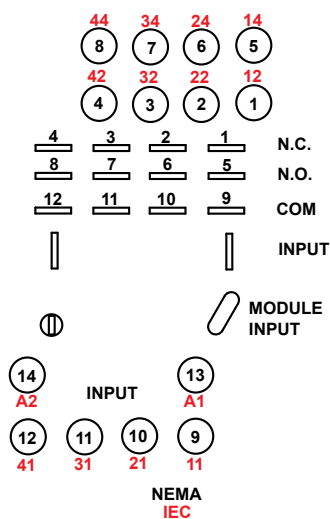


### Wiring Diagrams

70-783D11-1A



70-784D14-1

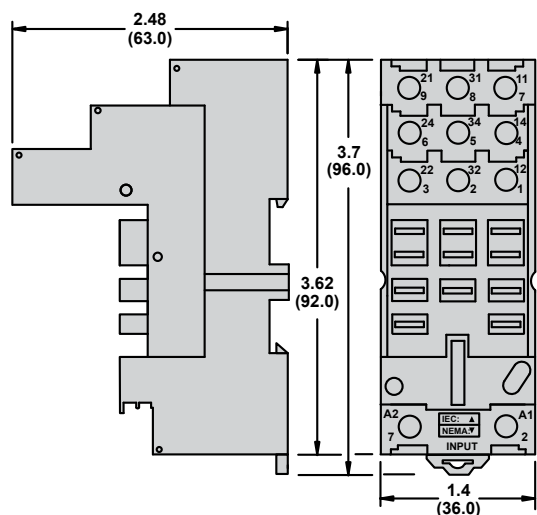


## Socket Specifications

| Part Number                      | 70-788EL11-1                                                                                                              |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Contact Configuration            | 3PDT                                                                                                                      |
| Number of Terminals              | 11                                                                                                                        |
| Mounting Style                   | DIN rail                                                                                                                  |
| Current Rating                   | 25 A                                                                                                                      |
| Nominal Voltage Rating           | 300 V                                                                                                                     |
| Storage Temperature Range        | -40 to +105 °C (-40 to +221 °F)                                                                                           |
| Operating Temperature Range      | -40 to +55 °C (-40 to +131 °F)                                                                                            |
| Protection Category (Fingersafe) | IP20                                                                                                                      |
| Internal Metal Tracks            | Copper Alloy, Zinc Plated                                                                                                 |
| Screw Terminals                  | Steel, Zinc Plated                                                                                                        |
| Screw Style                      | Combination Head                                                                                                          |
| Screw Size                       | M3.5 mm                                                                                                                   |
| Maximum Screw Torque             | 9 lb-in / 1.0 N•m                                                                                                         |
| Terminal Connection              | Elevator                                                                                                                  |
| Terminal Layout                  | Separate                                                                                                                  |
| Maximum Wire Size                | <b>Solid Cu:</b> two 14–10 AWG; two 2.5–6 mm <sup>2</sup><br><b>Stranded Cu:</b> two 14–10 AWG; two 2.5–6 mm <sup>2</sup> |
| DIN Rail Mounting, EN 60715      | 35 mm                                                                                                                     |
| Chassis Mount Screw Torque       | 7 lb-in / 0.8 N•m                                                                                                         |
| Flammability Rating              | 94V-0                                                                                                                     |
| Weight                           | 96 g (3.39 oz)                                                                                                            |
| Agency Approvals                 | UL (E70550), CE, CSA (LR40787), RoHS                                                                                      |

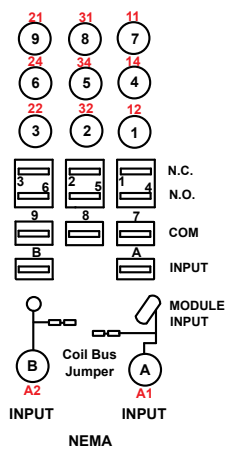
## Dimensions, in. (mm)

70-788EL11-1



## Wiring Diagram

70-788EL11-1



### Mounting Adapter Specifications

| Part Number      | 16-781C          | 16-782C                  | 16-783C    | 16-784C    | 16-781C1    | 16-782C2                 | 16-783C1   | 16-784C1   |
|------------------|------------------|--------------------------|------------|------------|-------------|--------------------------|------------|------------|
| Mounting Style   | DIN rail / panel |                          |            |            | Panel       |                          |            |            |
| Mating Relays    | 781R Series      | 792 Series<br>782 Series | 783 Series | 784 Series | 781R Series | 792 Series<br>782 Series | 783 Series | 784 Series |
| Agency Approvals | RoHS             |                          |            |            |             |                          |            |            |

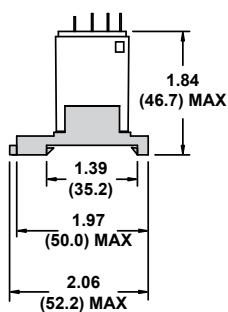
### Key Features

- No need to purchase a socket
- DIN or Panel mounting
- Plastic construction
- Light weight
- Low cost
- Low profile
- Write-on label
- Narrow mounting
- Easy termination

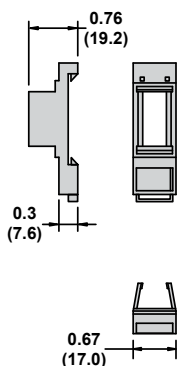


### Mounting Adapter Dimensions, in. (mm)

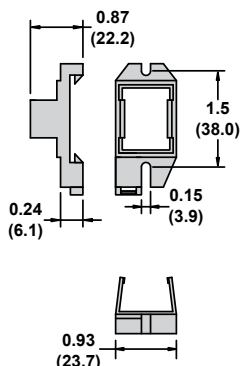
#### All DIN Adapters



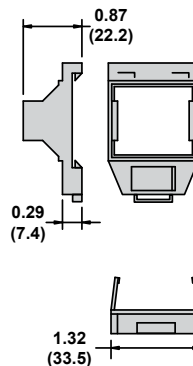
#### 16-781C



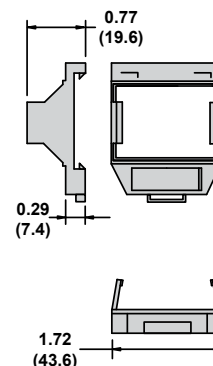
#### 16-782C



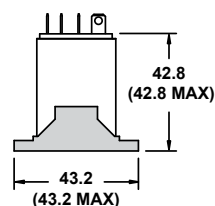
#### 16-783C



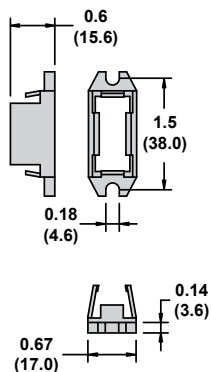
#### 16-784C



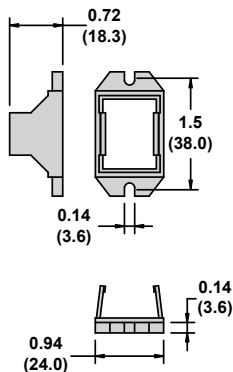
#### All Flange Adapters



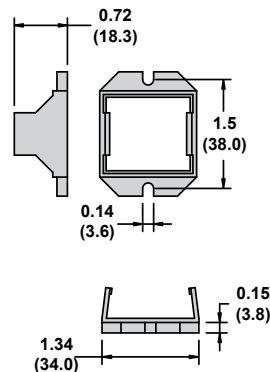
#### 16-781C1



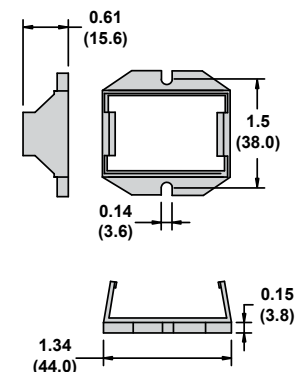
#### 16-782C1



#### 16-783C1



#### 16-784C1



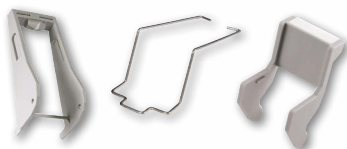
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|                                              |    |
|----------------------------------------------|----|
| ■ Overview . . . . .                         | 67 |
| ■ Hold-Down Clips . . . . .                  | 68 |
| ■ Insulated Coil Bus Jumper System . . . . . | 71 |
| ■ DIN Rail and DIN Clip . . . . .            | 71 |
| ■ ID Tags . . . . .                          | 71 |
| ■ Panel Mount Adapter. . . . .               | 72 |
| ■ Socket Modules . . . . .                   | 72 |

### Product Overview

#### Hold-Down Clips

Safely secure the relay to the socket.  
Available in plastic or stainless steel.



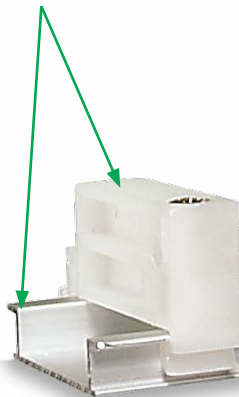
#### Socket Modules

Allow for optional circuit protection (Diode, MOV or RC) or status indicator LED. Modules plug into mating sockets.



#### DIN Rail and Locking End Clip

Enables quick installation and removal of sockets.



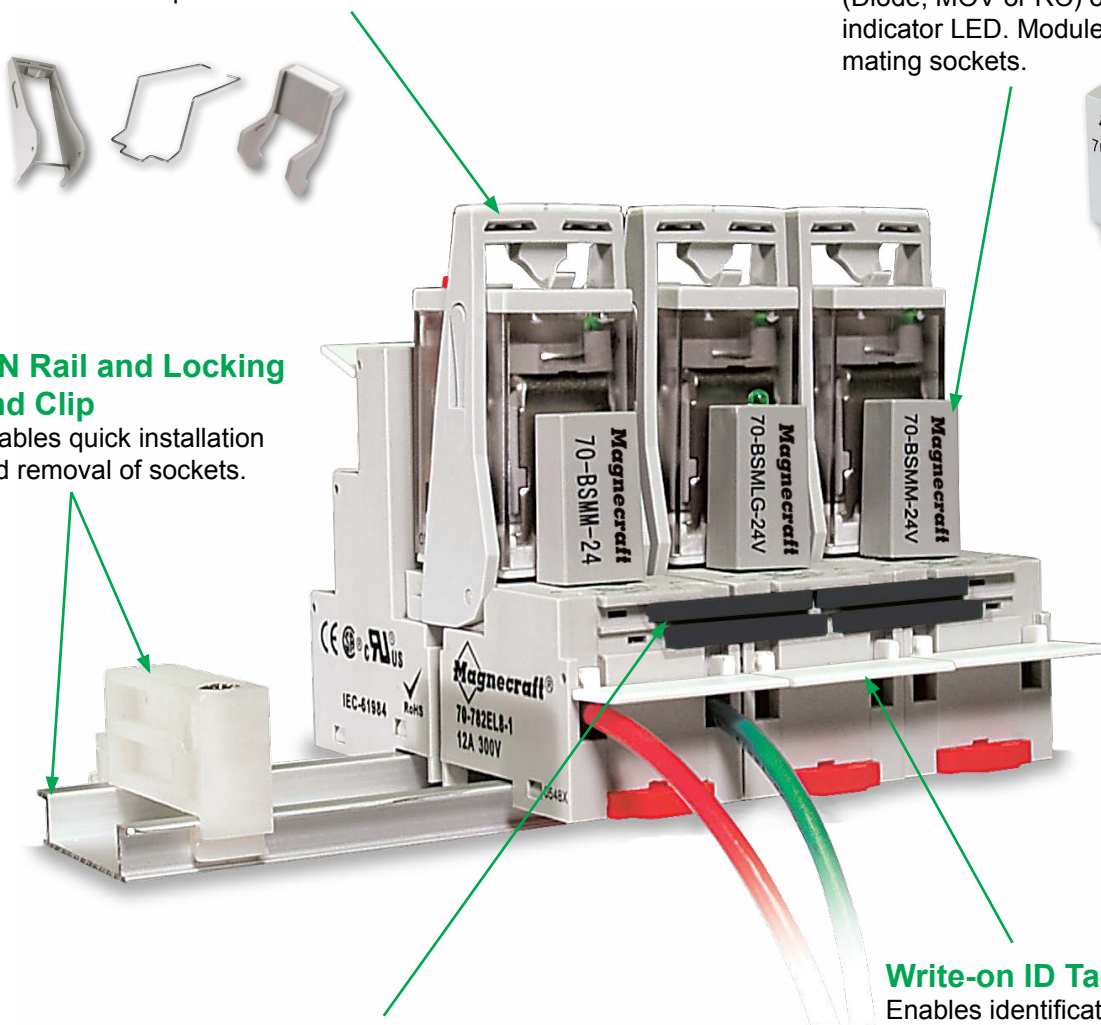
#### Insulated Coil Bus Jumper System

Allows for connection to adjacent sockets without any additional wiring, or any tools.



#### Write-on ID Tags

Enables identification of relays in multi-relay circuits. Tag snaps onto mating socket.



# Magnecraft General Purpose Relays

## Socket Accessories

### Hold-Down Clips

Use the table below to easily select Magnecraft hold-down clips based on socket and relay compatibility.

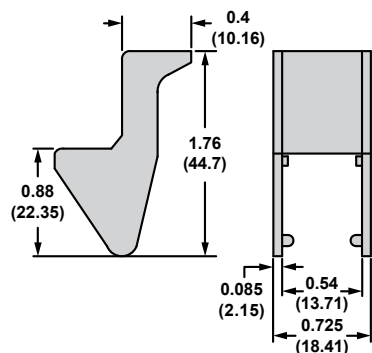
### Key Features

- Stainless steel spring clips: secure the relay to the socket in harsh environments
- Plastic ejector clips: secure and eject relays from tight, multi-socket applications
- Plastic ID clips: allow for easy identification of circuits in multi-relay applications; include an ID tag with each clip

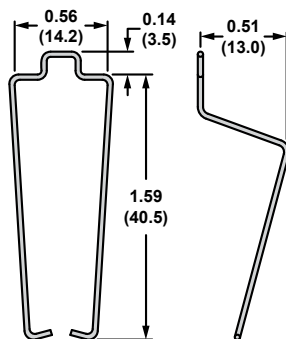
| Socket Part Number | Relays                                            | Clip Part Number | Clip Type    |
|--------------------|---------------------------------------------------|------------------|--------------|
| 70-124-2           | 788XBXR / 788XCXR                                 | 16-1351          | Spring Clip  |
| 70-178-1           | 788XBXR / 788XCXR                                 | 16-1351          | Spring Clip  |
| 70-178-2           | 788XBXR / 788XCXR                                 | 16-1351          | Spring Clip  |
| 70-378-1           | 792XDX Control, 782XDXH                           | 16-1342          | Spring Clip  |
| 70-379-1           | 792XDX Control, 782XDXH                           | 16-1342          | Spring Clip  |
| 70-401-1           | 782XBX Power                                      | 16-1342          | Spring Clip  |
| 70-402-1           | 782XBX Power                                      | 16-1342          | Spring Clip  |
| 70-459-1           | 782XBX Power                                      | 16-1342          | Spring Clip  |
| 70-461-1           | 792XDX Control, 782XDXH                           | 16-1342          | Spring Clip  |
| 70-463-1           | 788XBXR / 788XCXR                                 | 16-1351          | Spring Clip  |
| 70-464-1           | 750XBXR, 750XBXH                                  | 16-1351          | Spring Clip  |
| 70-465-1           | 750XCXR, 750XCXH                                  | 16-1351          | Spring Clip  |
| 70-750DL8-1        | 750XBXR                                           | 16-1332          | Spring Clip  |
|                    | 750XBXH                                           | 16-1351          | Spring Clip  |
| 70-750DL11-1       | 750XCXR                                           | 16-1332          | Spring Clip  |
|                    | 750XCXH                                           | 16-1351          | Spring Clip  |
| 70-750E8-1         | 750XBXR                                           | 16-1344          | Spring Clip  |
|                    | 750XBXR, 750XBXH                                  | 16-1351          | Spring Clip  |
| 70-750E11-1        | 750XCXR, 750XCXH                                  | 16-1351          | Spring Clip  |
| 70-750EL8-1        | 750XBXR                                           | 16-1351          | Spring Clip  |
| 70-750EL11-1       | 750XCXR                                           | 16-1351          | Spring Clip  |
| 70-781D5R-1A       | 781XAXR                                           | 16-781IDC        | ID Clip      |
|                    |                                                   | 16-781SC         | Spring Clip  |
| 70-781T-1          | 781XAXR                                           | 16-781SC         | Spring Clip  |
| 70-782D8-1A        | 782XBX Power                                      | 16-1342          | Spring Clip  |
|                    |                                                   | 16-782IDC        | ID Clip      |
|                    |                                                   | 16-782PC-1       | Ejector Clip |
| 70-782D14-1        | 792XBX / 792XDX Control                           | 16-782SC         | Spring Clip  |
|                    | 792XBX / 792XDX Control (full-feature cover only) | 16-782PC-1       | Ejector Clip |
|                    | 782XDXH                                           | 16-1342          | Spring Clip  |
| 70-782E14-1        | 792XBX / 792XDX Control                           | 16-782SC         | Spring Clip  |
|                    | 792XBX / 792XDX Control (full-feature cover only) | 16-782PC-1       | Ejector Clip |
|                    | 782XDXH                                           | 16-1342          | Spring Clip  |
| 70-782EL8-1        | 792XBX Control                                    | 16-782SC         | Spring Clip  |
|                    | 792XBX Control (full-feature cover only)          | 16-782PC-1       | Ejector Clip |
| 70-782EL14-1       | 792XBX / 792XDX Control                           | 16-782SC         | Spring Clip  |
|                    | 792XBX / 792XDX Control (full-feature cover only) | 16-782PC-1       | Ejector Clip |
|                    | 782XDXH                                           | 16-1342          | Spring Clip  |
| 70-783D11-1A       | 783XCX                                            | 16-783IDC        | ID Clip      |
|                    |                                                   | 16-783SC         | Spring Clip  |
| 70-784D14-1        | 784XDX                                            | 16-784IDC        | ID Clip      |
|                    |                                                   | 16-784SC         | Spring Clip  |
| 70-788EL11-1       | 788XBXR / 788XCXR                                 | 16-1351          | Spring Clip  |

### Hold-Down Clip Dimensions, in. (mm)

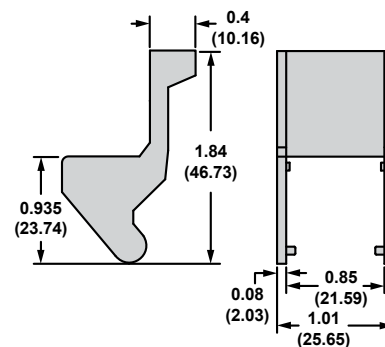
16-781IDC



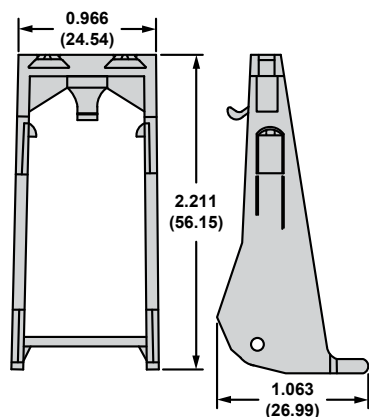
16-781SC



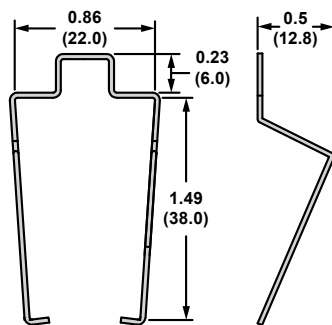
16-782IDC



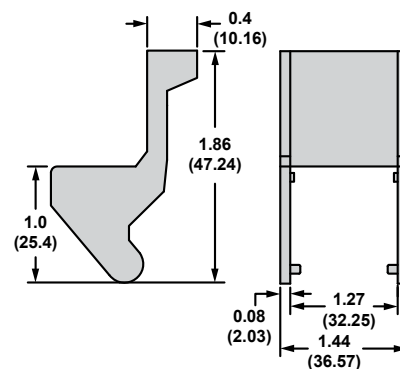
16-782PC



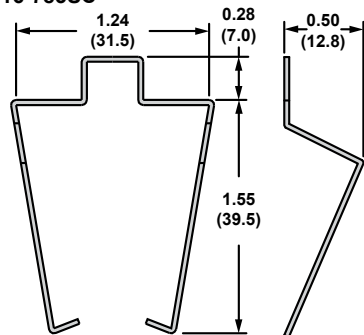
16-782SC



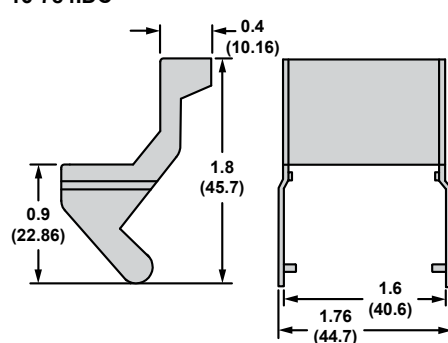
16-783IDC



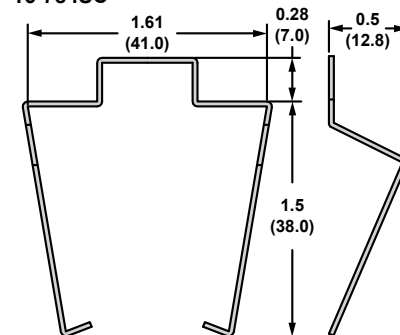
16-783SC



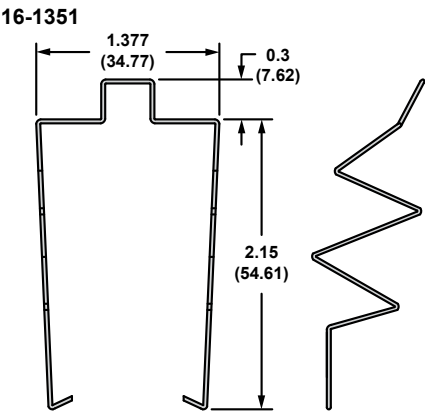
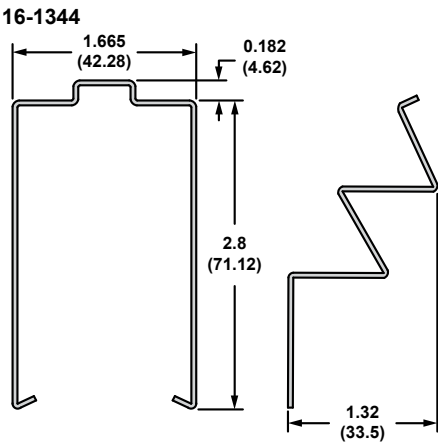
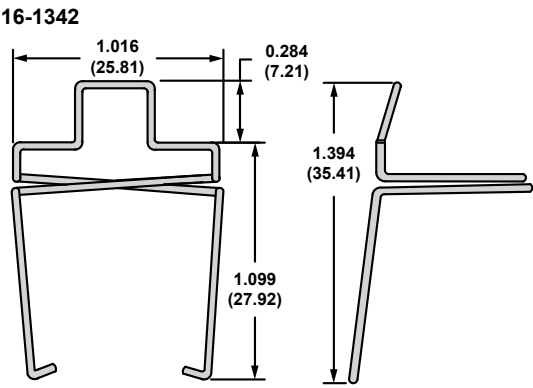
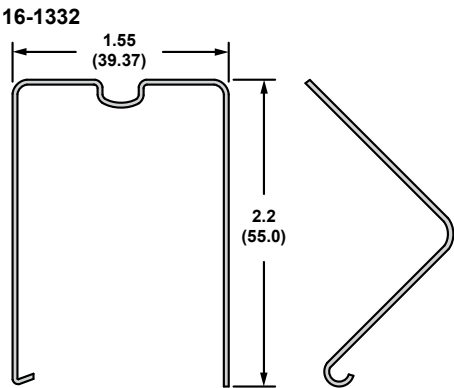
16-784IDC



16-784SC

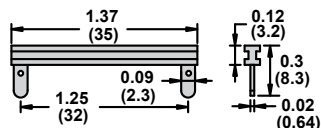


Hold-Down Clip Dimensions (*continued*), in. (mm)

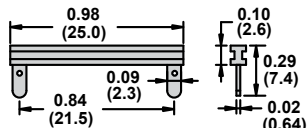


## Insulated Coil Bus Jumper Dimensions, in. (mm)

16-750/788CBJ-1 Coil Bus Jumper

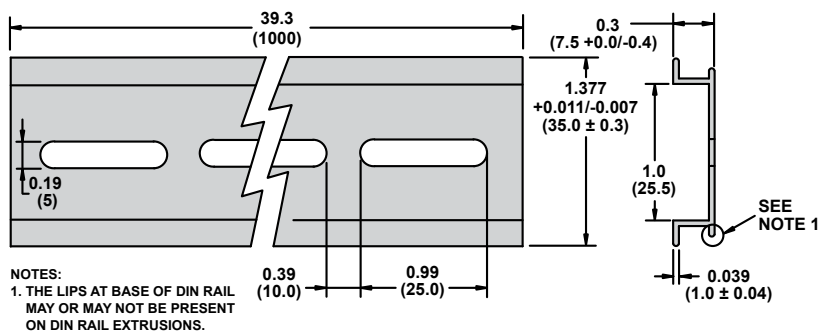


16-750/788CBJ-1 Coil Bus Jumper

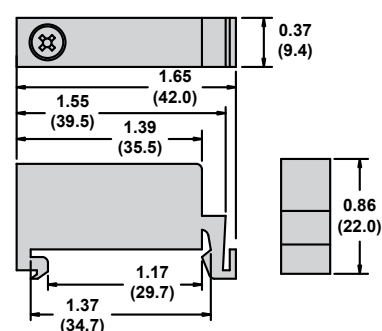


## DIN Rail and DIN Clip Dimensions, in. (mm)

16-700DIN Metal DIN Rail

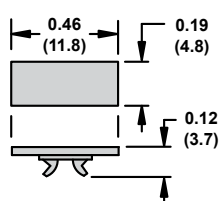


16-DCLIP-1 DIN Rail Clip

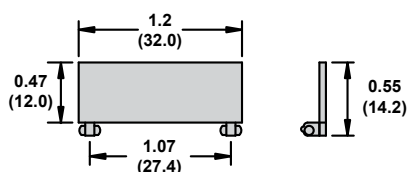


## ID Tag Dimensions, in. (mm)

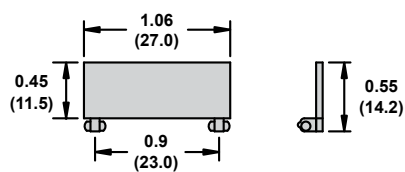
16-700ST-1 ID Tag/Label



16-750/788FT-1 ID Tag/Label

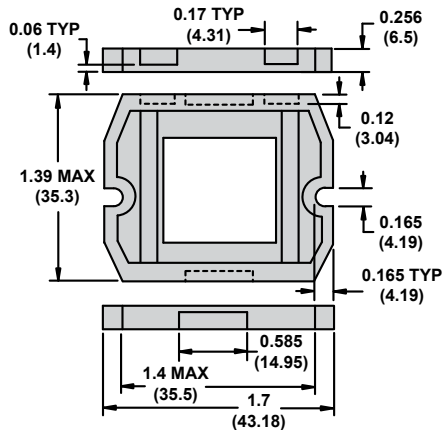


16-782FT-1 ID Tag/Label



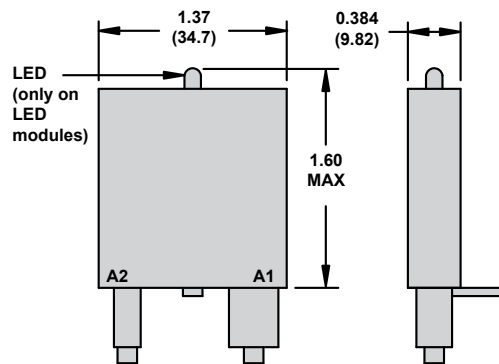
## Panel Mount Adapter Dimensions, in. (mm)

### 16-788C1 Panel Mount Adapter

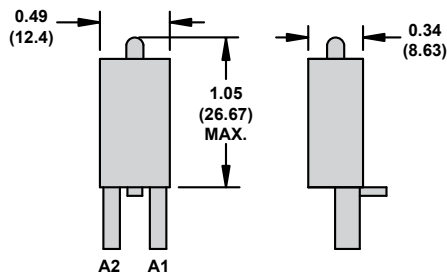


## Socket Module Dimensions, in. (mm)

### 70-ASM Socket Modules

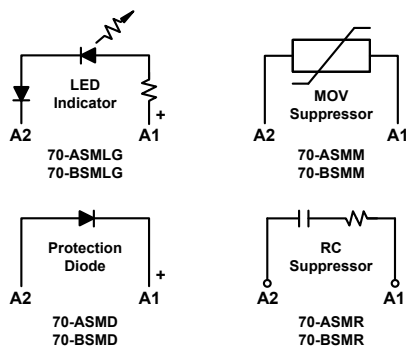


### 70-BSM Socket Modules

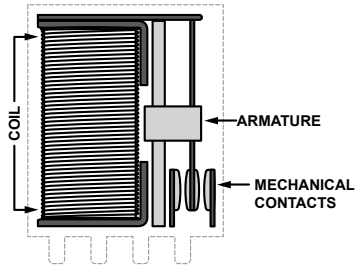


## Socket Module Wiring Diagrams

### 70-ASM & 70-BSM Socket Modules



Typical Electromechanical Relay



## General Purpose Relays

General purpose relays are electromechanical relays which consist of a coil, armature and contacts (see figure at left).

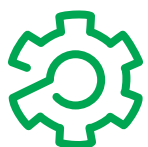
### Principle of Operation

When power is applied to the coil, the resulting magnetic field causes the armature to move and the contacts to open or close.

## Applications

With multiple options, features, and available accessories, Magnecraft general purpose relays offer a complete system solution to improve your design, expedite installation, and simplify testing of your application.

### Typical Examples of General Purpose Relay Applications



#### Automation Panels

Process controls, motor controls, standby lighting



#### Food & Beverage

Commercial/industrial cooking equipment, filtration systems, bottling, chillers, convection ovens



#### Packaging Machinery

Conveyor motors, food processors, product/shrink wrap, solenoid controls



#### Lighting Control

Traffic signal systems, motorway information systems, theatrical lighting, ballast lighting



#### Power Supplies

Universal power supplies, battery backup systems



#### Material Handling

Motor control, conveyor controls



#### HVAC & Refrigeration

Anti-condensation equipment, compressor controls, blower controls, motorized duct/vent controls



#### Appliances

Air conditioners, water heaters, portable heaters, spa controls, water pumps

The Magnecraft website ([www.serelays.com](http://www.serelays.com)) is designed to help you easily find the proper relay to fit your design requirements, and to help you simplify and shorten your workflow.

## Easily find the proper relay to fit your design requirements

### ■ Online Catalog

Find the right product by choosing specifications, comparing products side-by-side, and viewing technical specifications, 2D and 3D drawings, and associated accessories.

### ■ Cross-Reference Search

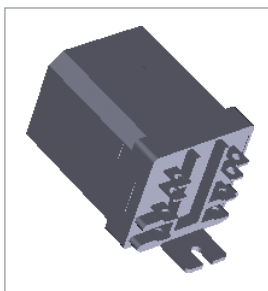
Search our comprehensive database to identify products by manufacturer and part number, and link directly to part specifications.

### ■ 3D CAD Library

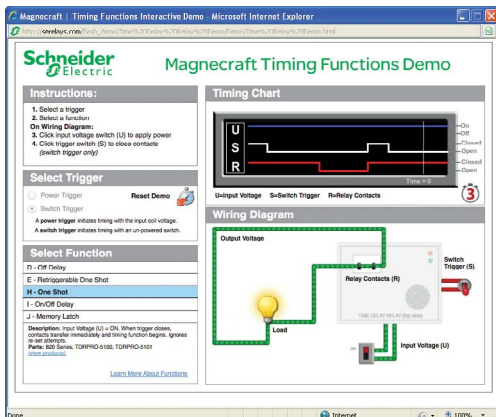
View, email, download, or insert a file directly into your open CAD software. There are 18 different file formats to choose from.

### ■ Order Free Samples

Magnecraft offers free samples as a courtesy to individuals and companies evaluating our products for their designs and applications. Sample orders are subject to approval.



3D Models



Time Delay Relay Demo

## Simplify and shorten your workflow

### ■ Interactive Tools

View interactive demonstrations, such as our Time Delay Relay Interactive Demo (left), which visually demonstrates the ten different timing functions offered on Magnecraft time delay relays.

### ■ Distributor Inventory Search

Search authorized distributors' current Magnecraft inventory and buy online. (Buy online not available for all distributors).

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Tel: 847-441-2540  
[www.serelays.com](http://www.serelays.com)

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Replaces 8501CT1105R09/14 dated 09/2014