

## Description

# Magnecraft General Purpose Relays

## 750 Series

DPDT and 3DPT, 10 A



UL listed when used with proper Magnecraft sockets

## Description

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



750 Clear Cover



750 Full-Feature Cover

| 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 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: Full-Feature |
|----------------|-----------------------|-----------------|---------------------|-----------------------------------|--|------------------------------------|
| 10 A           | DPDT                  | 12 Vac 50/60Hz  | 16.9                | 750XBXRC-12A                      | 750XBXRCL-12A                              | 750XBXRM4L-12A                     |
|                |                       | 24 Vac 50/60Hz  | 72                  | 750XBXRC-24A                      | 750XBXRCL-24A                              | 750XBXRM4L-24A                     |
|                |                       | 120 Vac 50/60Hz | 1700                | 750XBXRC-120A                     | 750XBXRCL-120A                             | 750XBXRM4L-120A                    |
|                |                       | 240 Vac 50/60Hz | 6800                | 750XBXRC-240A                     | 750XBXRCL-240A                             | 750XBXRM4L-240A                    |
|                |                       | 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                            |                                    |
|                | 3PDT                  | 12 Vac 50/60Hz  | 16.9                | 750XCXRC-12A                      | 750XCXRCL-12A                              | 750XCXRM4L-12A                     |
|                |                       | 24 Vac 50/60Hz  | 72                  | 750XCXRC-24A                      | 750XCXRCL-24A                              | 750XCXRM4L-24A                     |
|                |                       | 120 Vac 50/60Hz | 1700                | 750XCXRC-120A                     | 750XCXRCL-120A                             | 750XCXRM4L-120A                    |
|                |                       | 240 Vac 50/60Hz | 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



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

## Magnecraft General Purpose Relays 750 Series DPDT and 3DPT, 10 A

### Specifications

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

### Clear Cover Dimensions

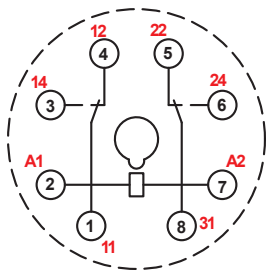


### Full-Feature Cover Dimensions

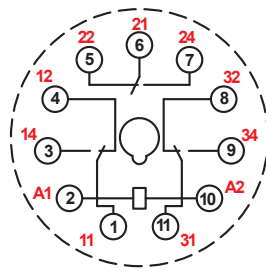


## Wiring Diagrams

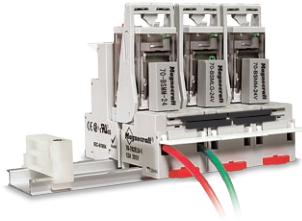
DPDT



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, module compatible                         | 750XBXR             | 10        | 70-750E8-1           |
| Socket 2    | DIN/Panel mount with elevator terminals, module compatible | 750XBXR             | 10        | 70-750EL8-1          |
| Socket 3    | DIN/Panel mount, module compatible                         | 750XBXR             | 10        | 70-750DL8-1          |
| Socket 4    | DIN/Panel mount with screw terminals and clamping plates   | 750XBXR             | 10        | 70-464-1             |
| Socket 5    | Panel mount with screw terminals and clamping plates       | 750XBXR             | 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                    | 750XCXR             | 10        | 70-750EL11-1         |
| Socket 8    | DIN/Panel mount, module compatible                         | 750XCXR             | 10        | 70-750DL11-1         |
| Socket 9    | DIN/Panel mount with screw terminals and clamping plates   | 750XCXR             | 10        | 70-465-1             |
| Socket 10   | Panel mount with screw terminals and clamping plates       | 750XCXR             | 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 I.D. 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   | 70-750E8-1, 70-750EL8-1, 70-750DL8-1, 70-750E11-1, 70-464-1, 70-465-1       | -               | 10        | 16-750/788CBJ-1      |
| Extruded Aluminum DIN Rail, 39.37" (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, 70-750DL11-1             | 24 Vac/Vdc      | 10        | 70-ASMM-24           |
| Large Socket Module                            | Protection Diode (Protects external drive circuitry from inductive voltages) | 70-750E8-1, 70-750EL8-1, 70-750DL8-1, 70-750E11-1, 70-750DL11-1             | 250 Vdc         | 10        | 70-ASMD-250          |
| Large Socket Module 7                          | LED Indicator (Provides coil status at a glance)                             | 70-750E8-1, 70-750EL8-1, 70-750DL8-1, 70-750E11-1, 70-750DL11-1             | 110/240 Vac/Vdc | 10        | 70-ASMLG-110/240     |
| Large Socket Module                            | RC Suppressor (Snubs back EMF of relay coil)                                 | 70-750E8-1, 70-750EL8-1, 70-750DL8-1, 70-750E11-1, 70-750DL11-1             | 110/240 Vac     | 10        | 70-ASMR-110/240      |

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



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#### Как с нами связаться

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