

Description

Magnecraft General Purpose Relays

781R Series

SPDT 15 A



UL Listed when used with proper Magnecraft sockets



781R Clear Cover

781R Full-Feature Cover

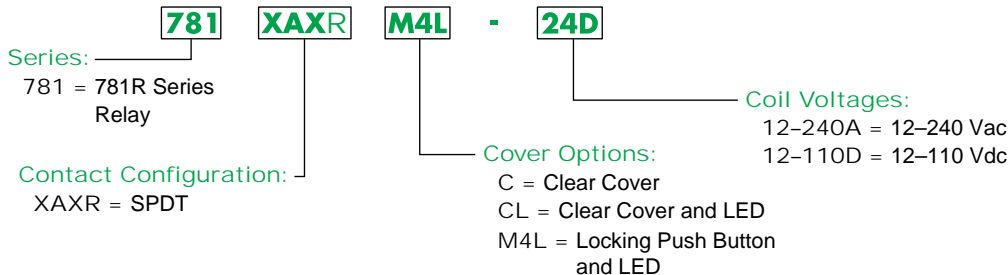
Description

The 781R 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 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).

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781R Series

SPDT 15 A

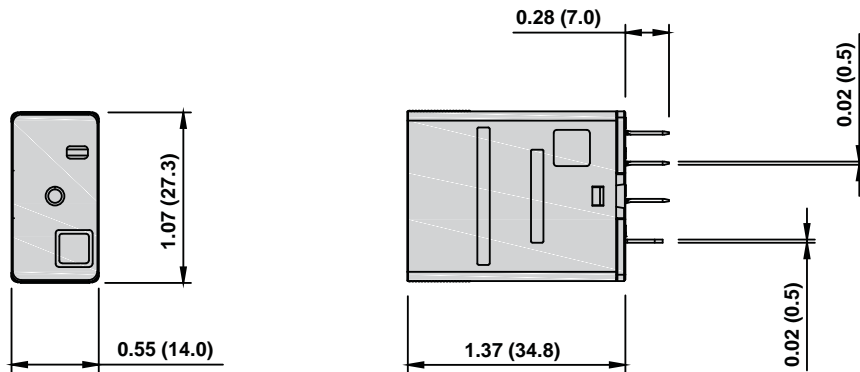
Specifications

| Part Number | 781XAXR |
|---|---|
| Contact Characteristics | |
| Terminal Style | Blade |
| Contact Material | Silver Alloy |
| Contact Configuration | SPDT |
| Carrying Current | 15 A |
| Maximum Switching Voltage | IEC: 250 Vac / 28 Vdc UL/CSA: 300 Vac / 28 Vdc |
| Rated Switching Current at Voltage (Conforming to IEC AC-1 and DC-1) | NO: 15 A at 250 Vac; NC: 7.5 A at 250 Vac NO: 15 A at 28 Vdc; NC: 7.5 A at 28 Vdc |
| Rated Switching Current at Voltage (Conforming to UL) | Resistive: 15 A at 277 Vac, 50/60 Hz, 100 k cycles 15 A at 28 Vdc, 100 k cycles Motor: 1/2 hp at 120 Vac, 1 k cycles 1 hp at 277 Vac, 1 k cycles Pilot Duty: B300 |
| Rated Switching Current at Voltage (Conforming to CSA) | Resistive: 15 A at 150 Vac, 50/60 Hz, 100 k cycles 10 A at 277 Vdc, 100 k cycles 15 A at 28 Vdc, 100 k cycles Motor: 1/2 hp at 120 Vac, 1 k cycles 1 hp at 277 Vac, 1 k cycles Pilot Duty: B300 |
| Minimum Switching Requirement | 10 mA at 17 Vdc |
| Coil Characteristics | |
| 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) With LED: 1.9 VA (AC); 1.4 W (DC) |
| General Characteristics | |
| 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 |

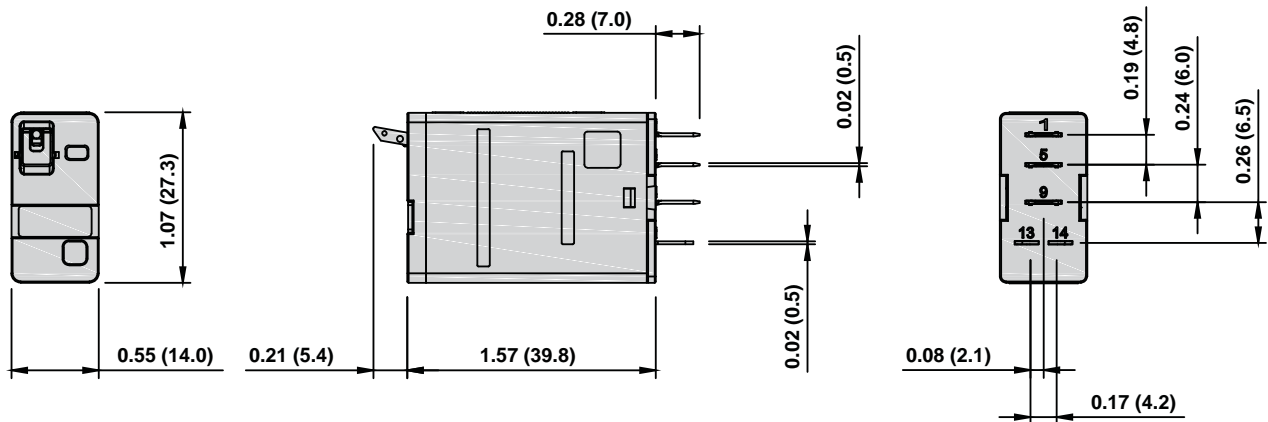
Note: Actual product performance may vary depending on application and environmental conditions.

Dimensions, in. (mm)

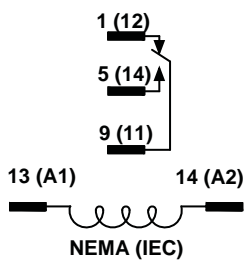
Clear Cover Dimensions



Full-Feature Cover Dimensions



Wiring Diagram





Description

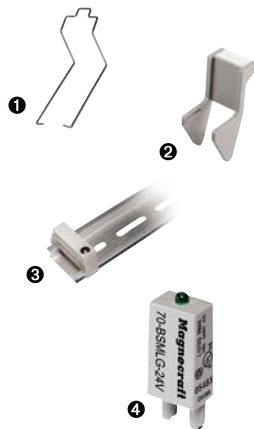
Optional sockets offer customizable, Fingersafe solutions including protection modules, hold-down clips, and ID tags. Sockets are DIN rail and panel mount compatible.

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 ① | Secures relay in socket | 70-781D5R-1A, 70-781T-1 | – | 10 | 16-781SC |
| Plastic ID Hold-Down Clip ② | Secures relay in socket and provides labeling | 70-781D5R-1A | – | 10 | 16-781IDC |
| 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 |
| Small Socket Module | Protection diode (protects external drive circuitry from inductive voltages) | 70-781D5R-1A | 6 to 250 Vdc | 10 | 70-BSMD-250 |
| Small Socket Module ④ | 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 a LED socket module can increase coil power draw by up to 10%.

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