**ELECTROMECHANICAL RELAYS**

30 Amp, SPDT and DPDT Operation

The Series 9 Electromechanical Relays are small in size, features Class F insulation for a max coil temperature of 155°C, quick-connect terminals for simple connection, and is panel mountable. The relays are compact and impervious to shock and vibration.

**FEATURES/BENEFITS**
- Compact size for flange mounting
- Quick-connect terminals to allow for easy installation

**APPLICATIONS**
- Motor control
- Lighting control
- Refrigeration compressor systems

### SERIES 781 & 782

**ICE CUBE RELAYS**

SPDT or DPDT Operation

The Series 781 & 782 Ice Cube Relays are full-featured relays that can be used to handle loads up to 15 amps for AC or DC circuits. It features a flag status indicator and a LED status lamp to let the user know when the relay is activated. In order to differentiate between AC and DC actuated models, the push-to-test button is color coded and a removable lock-down lever holds the test button in place.

**FEATURES/BENEFITS**
- Clear plastic housing to easily view the contacts
- Flag and LED status indicators for visual confirmation of relay state
- Socket mounted for quick installation/replacement

**APPLICATIONS**
- Refrigeration compressor systems
- HVAC motor controls
- Water/wastewater pump control

### SPECIFICATIONS

**Operating and Load Voltage Range: 12 to 277 VAC; 5 to 110 VDC.**
**Electrical Connection:** Quick-connect tab contacts. SPDT 0.187" coil terminal/0.25" contact terminal; DPDT 0.25" coil terminal/0.25" contact terminal. **Switching Operation:** SPDT or DPDT. **Electrical Rating:** SPDT: NO 30 A @ 240 VAC / 28 VDC; NC 10 A @ 240 VAC / 28 VDC; DPDT: NO 30 A @ 240 VAC 20 A @ 28 VDC.

**Temperature Limits:** Storage: -40 to 185°F (-40 to 85°C); Operation: -40 to 131°F (-40 to 55°C). **Voltage Loss:** 2.5 VA (VAC); 1W (VDC). **Cycle Life:** 100,000 cycles (electrical); 10,000,000 cycles (mechanical). **Housing:** Polycarbonate. **Weight:** 1.16 oz (45 g) (SPDT); 3 oz (85 g) (DPDT). **Agency Approvals:** CE, cULus, (EMR-XXX-DPDT), cURus (EMR-XXX-SPDT).

### ACCESSORIES

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>16-5AD1N1</td>
<td>Din adaptor</td>
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<tr>
<td>A-360</td>
<td>Aluminum DIN rail 1 m</td>
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### MODEL CHART

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<thead>
<tr>
<th>Model</th>
<th>Operation</th>
<th>Input Voltage</th>
<th>Coil Resistance</th>
<th>Price</th>
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<tbody>
<tr>
<td>9AS5A5224</td>
<td>AC</td>
<td>24 VAC 50/60 Hz</td>
<td>500 Ω</td>
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<td>9AS5A52120</td>
<td>AC</td>
<td>120 VAC 50/60 Hz</td>
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<td>9S51A22D24</td>
<td>AC</td>
<td>24 VAC 50/60 Hz</td>
<td>250 Ω</td>
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<td>9S51A22D120</td>
<td>AC</td>
<td>24 VAC 50/60 Hz</td>
<td>1600 Ω</td>
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<td>9ASB5224</td>
<td>DC</td>
<td>24 VDC</td>
<td>576 Ω</td>
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<td>9S51D22D12</td>
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<td>12 VDC</td>
<td>86 Ω</td>
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<td>DC</td>
<td>24 VDC</td>
<td>1600 Ω</td>
<td>12.75</td>
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**ACCESSORIES**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>70-781D5-1A</td>
<td>Socket for 781 series relay</td>
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<td>70-782D8-1A</td>
<td>Socket for 782 series relay</td>
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* Items are not priced and are not subject to any discount.

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**Series 9 Electromechanical Relays**

- Refrigeration compressor systems
- Motor control
- Quick-connect terminals to allow for easy installation

**FEATURES/BENEFITS**
- Compact size for flange mounting
- Quick-connect terminals to allow for easy installation

**APPLICATIONS**
- Motor control
- Lighting control
- Refrigeration compressor systems

**Series 781 & 782 Ice Cube Relays**

- SPDT or DPDT Operation
- Flag and LED status indicators for visual confirmation of relay state
- Socket mounted for quick installation/replacement

**FEATURES/BENEFITS**
- Clear plastic housing to easily view the contacts
- Flag and LED status indicators for visual confirmation of relay state
- Socket mounted for quick installation/replacement

**APPLICATIONS**
- Refrigeration compressor systems
- HVAC motor controls
- Water/wastewater pump control

**SPECIFICATIONS**

**Operating and Load Voltage Range:** 12 to 277 VAC; 5 to 110 VDC. **Electrical Connection:** Silver alloy plug-in contacts. **Switching Operation:** SPDT or DPDT. **Electrical Rating:** Depends on model, see model chart.

**Temperature Limits:** Storage: -40 to 185°F (-40 to 85°C); Operation: -40 to 131°F (-40 to 55°C). **Voltage Loss:** 2.5 VA (VAC); 1W (VDC). **Cycle Life:** 100,000 cycles (electrical); 10,000,000 cycles (mechanical). **Housing:** Polycarbonate. **Weight:** 1.16 oz (45 g) (SPDT); 3 oz (85 g) (DPDT). **Agency Approvals:** CE, cULus, (EMR-XXX-DPDT), cURus (EMR-XXX-SPDT).