**ELECTROMECANICAL RELAY**

**30 Amp, SPDT and DPDT Operation**

The **SERIES 9** Electromechanical Relay is 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.

**APPLICATIONS**

- Motor control
- Lighting control
- Refrigeration compressor systems

**FEATURES/BENEFITS**

- Compact size for flange mounting
- Quick-connect terminals to allow for easy installation
- Flag and LED status indicators for visual confirmation of relay state
- Compact size for flange mounting
- Quick-connect terminals to allow for easy installation

**SPECIFICATIONS**

- Operating and Load Voltage Range: 12 to 277 VAC, 5 to 110 VDC
- Electrical Connection: Quick-connect tab terminals; SPDT 0.25” 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: 30 A @ 240 VAC 20 A @ 28 VDC
- Operating and Load Voltage Range: 12 to 277 VAC, 5 to 110 VDC
- Electrical Connection: Quick-connect tab terminals; SPDT 0.25” 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: 30 A @ 240 VAC 20 A @ 28 VDC

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Model Description</th>
<th>16-9ADIN1</th>
<th>A-360</th>
</tr>
</thead>
<tbody>
<tr>
<td>Din adaptor</td>
<td>Aluminum DIN rail</td>
<td></td>
</tr>
</tbody>
</table>

**ICE CUBE RELAYS**

**SPDT or DPDT Operation**

The **SERIES 781 & 782** Electromechanical Ice Cube Relays are full-featured relays that can be used to handle loads up to 20 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: 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: Plastic polycarbonate
- Weight: 1.16 oz (45 g) (SPDT); 3 oz (85 g) (DPDT)
- Agency Approvals: CE, cULus, EMR-XXX-DPDT, cURus (EMR-XXX-DPDT)

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Model</th>
<th>70-781D5-1A</th>
<th>70-782D8-1A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Socket for 781 series relay</td>
<td>Socket for 782 series relay</td>
<td></td>
</tr>
</tbody>
</table>

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Operation</th>
<th>Input Voltage</th>
<th>Coil Resistance</th>
<th>Electrical Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>781XAXM4L-24A</td>
<td>AC</td>
<td>24 VAC 50/60 Hz</td>
<td>180Ω</td>
<td>20 A @ 120/277 VAC (50/60Hz) or 28 VDC</td>
</tr>
<tr>
<td>781XAXM4L-120A</td>
<td>AC</td>
<td>120 VAC 50/60 Hz</td>
<td>4430Ω</td>
<td>15 A @ 120 VAC 50/60 Hz or 277 VAC 50/60 Hz or 28 VDC (UL); 10 A @ 277 VAC 50/60 Hz (CSA)</td>
</tr>
<tr>
<td>781XAXM4L-240A</td>
<td>AC</td>
<td>240 VAC 50/60 Hz</td>
<td>15720Ω</td>
<td>20 A @ 120/277 VAC (50/60Hz) or 28 VDC</td>
</tr>
<tr>
<td>781XAXM4L-24D</td>
<td>DC</td>
<td>24 VDC</td>
<td>750Ω</td>
<td>15 A @ 120 VAC 50/60 Hz or 277 VAC 50/60 Hz or 28 VDC (UL); 10 A @ 277 VAC 50/60 Hz (CSA)</td>
</tr>
<tr>
<td>782XBXM4L-120A</td>
<td>AC</td>
<td>120 VAC 50/60 Hz</td>
<td>14430Ω</td>
<td>15 A @ 120 VAC 50/60 Hz or 277 VAC 50/60 Hz or 28 VDC (UL); 10 A @ 277 VAC 50/60 Hz (CSA)</td>
</tr>
<tr>
<td>782XBXM4L-240A</td>
<td>AC</td>
<td>240 VAC 50/60 Hz</td>
<td>15720Ω</td>
<td>20 A @ 120/277 VAC (50/60Hz) or 28 VDC</td>
</tr>
<tr>
<td>782XBXM4L-24D</td>
<td>DC</td>
<td>24 VDC</td>
<td>650Ω</td>
<td>15 A @ 120 VAC 50/60 Hz or 277 VAC 50/60 Hz or 28 VDC (UL); 10 A @ 277 VAC 50/60 Hz (CSA)</td>
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