**KILOVAC & HARTMAN**

**MANY AVAILABLE FROM STOCK!**

Technical support along with other products available, including Agastat Relays, Time Delays & Willmar Protection Relays

<table>
<thead>
<tr>
<th>KILOVAC High Voltage Relays</th>
<th>KILOVAC Lightweight DC Relays and Contactors</th>
<th>KILOVAC Lightweight Contactors Designed to Switch 270Vdc and 650 Amps</th>
<th>HARTMAN Lightweght 28Vdc Contactors</th>
<th>HARTMAN and KILOVAC Sensors, Monitors &amp; Protective Relays</th>
<th>HARTMAN AC Contactors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage isolation to 70kV</td>
<td>Make and break current ratings from 5 to 300 amps</td>
<td>Interrupt currents up to 2,000 amps</td>
<td>Main contact ratings to 1,000 amps</td>
<td>Overcurrent, undercurrent and over/undercurrent sensors and indicators</td>
<td>Main contact ratings to 800 amps; arrangements to 4 pole, double throw</td>
</tr>
<tr>
<td>Current carrying capability to 110A</td>
<td>For switching from 28 to 1,800Vdc</td>
<td>Voltage isolation from 5 to 1,800Vdc</td>
<td>Available with a variety of auxiliary contact arrangements</td>
<td>Overvoltage, undervoltage and over/undervoltage sensors and monitors</td>
<td>Available with a variety of auxiliary contact arrangements</td>
</tr>
<tr>
<td>Service life to 10 million cycles</td>
<td>Small, lightweight, hermetically sealed units have gas or vacuum dielectric</td>
<td>One-or two-pole models with normally open or normally closed main contacts</td>
<td>Side stable and latching models</td>
<td>Overfrequency, under frequency and over/underfrequency sensors</td>
<td>Side stable, latching and center off models</td>
</tr>
<tr>
<td>Various contact forms available</td>
<td>Wide variety of mounting and termination styles</td>
<td>Non-position sensitive, hermetically sealed models for side or bottom mounting</td>
<td>Standard, reverse current and automatic dropout types</td>
<td>Phase loss / rotation sensors and ground power monitors</td>
<td>Either hermetically or gasket sealed</td>
</tr>
<tr>
<td>Flange, panel and PC board mounting styles</td>
<td>Contacts available in Form A, Form B, Form C and latching arrangements</td>
<td>Available with a variety of auxiliary contact arrangements</td>
<td>Hermetically or gasket sealed models in conventional or bus bar mounting</td>
<td>Time delay versions available</td>
<td>New, more compact, lighter weight models as well as traditional designs</td>
</tr>
<tr>
<td>Optional coils, mountings and terminals</td>
<td>Latching and non-latching types</td>
<td>AC models also available</td>
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<td>Plug-in types, designed for ease of maintenance, are available</td>
<td></td>
</tr>
</tbody>
</table>

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# High Performance Relay Products

**CII Many Available From Stock!**

Technical support along with a wide range of other High Performance Relay types available.

## CII TO-5 and .100 Grid Low Signal Relays
- Miniature hermetically sealed relays
- Non-latching, single-coil latching and dual-coil latching designs
- Through hole and gull-wing surface mount terminals
- High frequency models capable of switching up through 6GHz
- Excellent isolation, insertion loss and V.S.W.R.
- MIL-PRF-28776 and MIL-PRF-39016 qualifications products available

## CII 1/5, 1/2 and Full Size Crystal Can Relays
- Hermetically sealed in 1/5 size, 1/2 size or full size crystal cans
- Terminals are arranged on .200” grid (1/2 and full size) or .150” grid (1/5 size)
- Plain case or choice of various mounting brackets or mounting studs
- Non-latching and latching designs
- Choice of straight pins or solder hooks
- MIL-PRF-5757 and MIL-PRF-39016 qualifications products available

## CII Mid-Range Relays
- 5-50A relays in compact or standard size cases
- Balanced force design with permanent magnet drive
- Terminal styles include socket pins and hook solder terminals
- Numerous mounting options
- Hermetically sealed, welded construction
- MIL-PRF-6106 and MIL-PRF-83536 qualifications products available

## CII Time Delay Relays and Sensors
- Solid state timing circuitry with either electromechanical or solid state output
- Sensors for voltage, frequency or phase
- Most types offer a variety of enclosures and mounting options
- Customized models available with tighter timing or sensing tolerance
- Several models qualified to MIL-PRF-83726

## CII Solid State Relays and Power Controllers
- Various models have switch ratings ranging from 90mA up to 25A
- AC, DC and bi-directional output
- Available for panel or PC board mounting
- Some types incorporate circuit protection and other functions
- Most are qualified to MIL-PRF-28750D or associated DSCC drawings

## CII Custom-Designed, Linear Motion, Tubular High Performance Solenoids
- From one-half inch (12.7 mm) diameter models producing only a few ounces (<1 N) of force at very short strokes, to three-inch (76.2 mm) diameter models capable of 100 pounds (445 N) force at one-inch (25.4 mm) strokes
- Push, pull or combination motion is available
- Broad range of coil, termination, plunger options

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