CIT Relay & Switch validation test lab

CIT Relay & Switch, located in greater Minneapolis, MN, is a designer and manufacturer of quality electromechanical relays, solid state relays and electromechanical switches. CIT focuses on customer service and quality; we strive for cost effective manufacturing, making CIT your best option.

CIT Relay & Switch has a specialized test lab for new design, validation product testing, IQC, failure analysis and material testing. We help customers solve their toughest problems by providing comprehensive technical expertise from our state-of-the-art lab. Providing accurate, concise solutions, we give our customers the best explanation why their components perform the way they do.

The CIT IQC Test Lab, in coordination with the CIT Technology Lab, ensures documented reliability. Incoming products are tested for x-ray plating verification of contact material, resistance, dielectric strength, solderability and other parameters. Also, CIT maintains warehousing in Hong Kong and Minnesota to meet on-time delivery and freight cost concerns.

CIT Technical Engineering support is readily available. Application support is moments away. Technical expertise on plastics, metallurgy, contact material recommendations, in-rush protection, molding, process application issues and many more questions can be asked and answered by email or phone. We are here to help!

Please contact CIT today to validate product suitability for your application with real-time testing backed with data. Email us at testlab@citrelay.com or 763.535.2339.
Featured Product

Featured Switches

DH Series Anti-Vandal
- IP67
- 22mm, 25mm, or 30mm

Snap-Action
- DM3
- SM3
- VM3
- IP67 VM3S

Tactile
- SMT
- Thru-Hole

Pushbutton Rocker Toggle
- Standard
- Sealed
- Sub-Mini

Featured UL Approved Relays

J102 Series
- PC Pin
- 1A, 1B, 1C

J115F Series
- 50 amp
- J115F1
- J115F2
- J115F3

J116F Series
- Small footprint
- 50 amp
- Ice Cube
- PC Pin or Solder Lug

J151 Series
- Ice Cube
- PC Pin or Solder Lug

PC740 Series
- 40 amp
- up to 240VAC/110VDC

PC770 Series
- 130 amp
- Heavy Duty

Featured UL Approved Latching Relays

L115F Series
- Latching
- up to 48VDC
- UL/TUV certified

PC10L Series
- 50 amp
- Single or Dual Coil

PC302 Series
- 1 amp
- Micro Miniature

PCT90 & PCT91 Series
- up to 50 amp
- Footprint Options

Featured Automotive Relays

A2K & A3K Series
- Blowout Magnet

A2H Series
- 50 amp
- PCB or QC

A6 Series
- 30 amp
- Small & Light

PC775 Series
- 75 amp
- Screw Terminal

PC776 Series
- 130 amp
- Heavy Duty

Featured Solid State Relays

PCS4 Series
- Solid State
- 2 amp
- DC Input
- AC Output

PCS24 Series
- Solid State
- 60 amp
- DC Input
- Three Phase

PCS34 Series
- Solid State
- AC or DC Input
- Solid State

PCS53 Series
- AC or DC Input
- Compact
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automotive relays
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solid state relays
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<thead>
<tr>
<th>Series</th>
<th>AH</th>
<th>AHB</th>
<th>AHU</th>
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</thead>
</table>
| **Features** | Illuminated Anti-Vandal Switch  
- Vandal Proof, IP67  
- Center Dot or Ring Illumination  
- 19mm, Panel Mount | Illuminated Anti-Vandal Switch  
- Vandal Proof, IP67  
- Center Dot or Ring Illumination  
- Bi-Color LED  
- 19mm, Panel Mount | Illuminated Anti-Vandal Switch  
- UL/cUL Approved  
- Vandal Proof, IP67  
- Center Dot or Ring Illumination  
- 19mm, Panel Mount |
| **Poles** | SPST N.C. & N.O. | SPDT & DPDT | SPDT & DPDT |
| **Function** | Momentary | Latching & Momentary | Latching & Momentary |
| **Contact Rating** | up to 1A | up to 3A | up to 3A |
| **Approvals** | | | UL Approved |

<table>
<thead>
<tr>
<th>Series</th>
<th>BH</th>
<th>CH</th>
<th>DH</th>
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</thead>
</table>
| **Features** | Illuminated Anti-Vandal Switch  
- Vandal Proof, IP67  
- Center Dot or Ring Illumination  
- Flush or Raised Actuator  
- 16mm or 19mm, Panel Mount | Illuminated Anti-Vandal Switch  
- Vandal Proof, IP67  
- Center Dot or Ring Illumination  
- 16mm, Panel Mount | Illuminated Anti-Vandal Switch  
- Vandal Proof, IP67  
- Center Dot or Ring Illumination  
- 22mm, 25mm, or 30mm  
- Panel Mount |
| **Poles** | SPST | SPDT & DPDT | SPST N.O. & N.C.; DPST N.O. & N.C. |
| **Function** | Momentary | Latching & Momentary | Latching & Momentary |
| **Contact Rating** | up to 2A | up to 1A | up to 2A |
| **Approvals** | | | UL Approved |

<table>
<thead>
<tr>
<th>Series</th>
<th>DH40</th>
<th>DH22U</th>
<th>DHU</th>
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</thead>
</table>
| **Features** | Illuminated Anti-Vandal Switch  
- Vandal Proof, IP67  
- Raised or Flush Actuator  
- Optional Ring Illumination  
- 40mm, Panel Mount | Illuminated Anti-Vandal Switch  
- UL/cUL Approved  
- Vandal Proof, IP67  
- Optional Ring Illumination  
- 22mm, Panel Mount | Illuminated Anti-Vandal Switch  
- UL/cUL Approved  
- Center Dot or Ring Illumination  
- 25, 28 or 30mm, Panel Mount |
<p>| <strong>Poles</strong> | SPST NO+SPST NC; DPST NO+DPST NC | SPDT &amp; DPDT | SPST &amp; SPDT |
| <strong>Function</strong> | Latching &amp; Momentary | Latching &amp; Momentary | Latching &amp; Momentary |
| <strong>Contact Rating</strong> | up to 2A | up to 3A | up to 16A |
| <strong>Approvals</strong> | | UL Approved | UL Approved |</p>
<table>
<thead>
<tr>
<th>Anti-Vandal Switch</th>
<th>Illuminated Anti-Vandal Switch</th>
<th>Illuminated Anti-Vandal Switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Illuminated Option</td>
<td>• Vandal Proof, IP67</td>
<td>• Vandal Proof, IP67</td>
</tr>
<tr>
<td>• Small Size</td>
<td>• Bi-Color LED Option</td>
<td>• Non-Illuminated or Ring Illumination</td>
</tr>
<tr>
<td>• IP67 Sealing Degree</td>
<td>• Center Dot or Ring Illumination</td>
<td>• Raised Actuator</td>
</tr>
<tr>
<td>• 12mm, Panel Mount</td>
<td>• 12mm, Panel Mount</td>
<td>• 10mm, Panel Mount</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SPST N.O.</th>
<th>SPST</th>
<th>SPST</th>
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</thead>
<tbody>
<tr>
<td>Momentary</td>
<td>Momentary</td>
<td>Latching &amp; Momentary</td>
</tr>
<tr>
<td>up to 2A</td>
<td>up to 2A</td>
<td>up to 2A</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Capacitive Touch Anti-Vandal Switch</th>
<th>Illuminated Indexing Switch</th>
<th>Illuminated Pushbutton Switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Vandal Proof, IP68</td>
<td>• 45° &amp; 90° Options</td>
<td>• Bi-Color LED Option</td>
</tr>
<tr>
<td>• Bi-Color LED Option</td>
<td>• Bi-Color LED Option</td>
<td>• Matte Finish</td>
</tr>
<tr>
<td>• 16mm, 19mm, 22mm or 25mm</td>
<td>• IP67 Sealing Standard</td>
<td>• Round or Flat Actuator</td>
</tr>
<tr>
<td>• 300mm Wire</td>
<td>• 2 &amp; 3 Position Available</td>
<td>• IP67 Sealed Standard</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SPDT &amp; DPDT</th>
<th>SPDT &amp; DPDT</th>
<th>SPST N.O. &amp; SPST N.C.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latching, Momentary &amp; 30 Second Hold</td>
<td>Indexing</td>
<td>Latching &amp; Momentary</td>
</tr>
<tr>
<td>up to 15mA</td>
<td>up to 1A</td>
<td>up to 125mA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Illuminated Pushbutton Switch</th>
<th>Illuminated Pushbutton Switch</th>
<th>Illuminated Pushbutton Switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 2 Function Options</td>
<td>• Bi-Color LED Option</td>
<td>• Panel Mount</td>
</tr>
<tr>
<td>• Multiple Actuator Options</td>
<td>• Multiple Caps with Laser Etching Option</td>
<td>• Bi-Color LED Option</td>
</tr>
<tr>
<td>• Multiple LED Color Options</td>
<td>• 4 Frame Options</td>
<td>• Gold Contacts</td>
</tr>
<tr>
<td>• Multiple Cap and Diffuser Options</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SPST N.O.</th>
<th>DPDT</th>
<th>SPST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Momentary</td>
<td>Latching &amp; Momentary</td>
<td>Momentary</td>
</tr>
<tr>
<td>up to 100mA</td>
<td>up to 100mA</td>
<td>up to .4VA</td>
</tr>
</tbody>
</table>
### Features
- **JC Series**: Illuminated Pushbutton Switch
  - Dual LED Option
  - 5 Color Options
  - Multiple Cap Options, Laser Etching
  - Panel Mount & PCB
- **JH Series**: Illuminated Pushbutton Switch
  - Dual LED Option
  - 3 LED Color Options
  - 6 Cap Styles with 9 Color Options
- **MH Series**: Illuminated Pushbutton Switch
  - Right Angle
  - Bi-Color LED Option
  - Available with or without Cap
  - Over-Travel & Positive Feel

### Poles
- **JC Series**: SPDT & DPDT
- **JH Series**: SPDT
- **MH Series**: SPDT

### Function
- **JC Series**: Latching & Momentary
- **JH Series**: Momentary
- **MH Series**: Momentary

### Contact Rating
- **JC Series**: up to 500mA
- **JH Series**: up to 50mA
- **MH Series**: up to 100mA

### Approvals

### Series
- **RT Series**:
  - Illuminated Pushbutton Switch
  - Miniature Size
  - Bi-Color LED Option
  - Multiple Cap Styles

- **DSA Series**: Double Action Key Switch
  - Single Action Available
  - Small Compact Design
  - Large Actuator Surface

- **JA Series**: Illuminated Tactile Switch
  - Bi-Color LED Option
  - Multiple Lens Colors
  - 2 Actuation Force Options

### Poles
- **RT Series**: SPST
- **DSA Series**: SPST N.O. & SPDT
- **JA Series**: SPST

### Function
- **RT Series**: Momentary
- **DSA Series**: Momentary Double Action
- **JA Series**: Momentary

### Contact Rating
- **RT Series**: up to 100mA
- **DSA Series**: up to 30mA
- **JA Series**: up to 50mA

### Approvals

### Series
- **NC Series**: Miniature Pushbutton Switch
  - Positive Snap Feel
  - 6 Cover Styles
  - 9 Cover Colors
  - Multiple Cap Styles

- **SH Series**: Miniature Pushbutton Switch
  - Illuminated Option with Laser Etching Available
  - Bi-Color LED Option
  - Multiple Cap Styles

- **CITR2 Series**: Circuit Breaker Switch
  - 2 ~ 20 Amp
  - Illuminated
  - UL/cUL Approved

### Poles
- **NC Series**: SPST
- **SH Series**: SPST
- **CITR2 Series**: SPST

### Function
- **NC Series**: Momentary
- **SH Series**: Momentary
- **CITR2 Series**: On-Off Circuit Breaker

### Contact Rating
- **NC Series**: up to 25mA
- **SH Series**: up to 50mA
- **CITR2 Series**: up to 20A

### Approvals
<table>
<thead>
<tr>
<th>RA</th>
<th>RC</th>
<th>RR</th>
</tr>
</thead>
</table>
| **Illuminated Rocker Switch**  
- Multi-Function & Illuminated  
- Numerous Actuator Markings  
- Right & Left Angle Style Option  
- UL/cUL Approved | **Illuminated Rocker Switch**  
- Illuminated  
- Numerous Actuator Markings  
- Right & Left Angle Style Option  
- UL/cUL Approved | **Round Rocker Switch**  
- LED, Neon or Tungsten Lamp Illumination  
- Multiple Printing Styles & Colors  
- UL/cUL Approved |
| **Datasheets and complete product information at www.citrelay.com** | | |

<table>
<thead>
<tr>
<th>SPST &amp; SPDT</th>
<th>SPST &amp; DPST</th>
<th>SPST &amp; SPDT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple</td>
<td>On - Off</td>
<td>Multiple</td>
</tr>
<tr>
<td>up to 15A</td>
<td>up to 12A</td>
<td>up to 15A</td>
</tr>
<tr>
<td>UL Approved</td>
<td>UL Approved</td>
<td>UL Approved</td>
</tr>
</tbody>
</table>

**RW**

| **Wide Rocker Switch**  
- Neon or Tungsten Lamp Illumination  
- Multiple Printing Styles  
- Multiple Color Options  
- UL/cUL Approved | **Miniature Rocker Switch**  
- Two Housing Color Options  
- Multiple Printing Styles  
- Multiple Color Options  
- UL/cUL Approved | **Illuminated Miniature Rocker Switch**  
- Housing Color Options  
- Multiple Switch Functions  
- Multiple Illumination Options  
- UL/cUL Approved |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPDT &amp; DPDT</strong></td>
<td><strong>SPST</strong></td>
<td><strong>SPDT ~ 4PDT</strong></td>
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<tr>
<td>Multiple</td>
<td>Multiple</td>
<td>Multiple</td>
</tr>
<tr>
<td>up to 20A</td>
<td>up to 12A</td>
<td>up to 20A</td>
</tr>
<tr>
<td>UL Approved</td>
<td>UL Approved</td>
<td>UL Approved</td>
</tr>
</tbody>
</table>

**CL1200**

| **Illuminated Tactile Switch**  
- Bi-Color LED Option  
- Multiple Cap Styles with 5 Colors  
- SMT & Right Angle Available | **Illuminated Tactile Switch**  
- SMT or Thru-Hole  
- Dual Color LED Option  
- Right Angle Available | **Illuminated Tactile Switch**  
- 12mm x 12mm  
- 4 LED Color Choices  
- 7 Cap Styles |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPST</strong></td>
<td><strong>SPST</strong></td>
<td><strong>SPST</strong></td>
</tr>
<tr>
<td>Momentary</td>
<td>Momentary</td>
<td>Momentary</td>
</tr>
<tr>
<td>up to 50mA</td>
<td>up to 50mA</td>
<td>up to 50mA</td>
</tr>
</tbody>
</table>

Dimensions shown in mm. Dimensions are shown for reference purposes only. Specifications and availability subject to change without notice.
## Features

- Illuminated Tactile Switch
  - Ultra Sub-Miniature
  - Surface Mount
  - Dual LED
  - 2 Cap Options

- Process Sealed
  - SMD & Through-Hole
  - Vertical & Right Angle
  - Navigation Switch Configuration

### Poles

<table>
<thead>
<tr>
<th>Series</th>
<th>NL</th>
<th>TJ</th>
<th>ME</th>
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</thead>
<tbody>
<tr>
<td>Pole</td>
<td>SPST</td>
<td>SPST N.O.</td>
<td>SPST</td>
</tr>
<tr>
<td>Function</td>
<td>Momentary</td>
<td>Momentary</td>
<td>Momentary</td>
</tr>
<tr>
<td>Contact Rating</td>
<td>up to 50mA</td>
<td>up to 50mA</td>
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### Approvals

<table>
<thead>
<tr>
<th>Series</th>
<th>CR, CT &amp; CS</th>
<th>ST</th>
<th>MB</th>
</tr>
</thead>
</table>
| Features | Thru-Hole or SMT Tactile Switch
  - Ammo Pack
  - Multiple Actuator Lengths
  - Multiple Actuation Forces
  - Vertical & Right Angle |
| Pole | SPST |
| Function | Momentary |
| Contact Rating | up to 50mA |

### Series

- CR, CT & CS
- ST
- MB

### Series

- K
- RD07 & RD10
- DM3, SM3, VM3, VM3S

### Features

- DIP Switch
  - Full & Low Profile Styles
  - Standard, Half Pitch, Piano & Right Angle
  - Thru Hole & Surface Mount

- Coded Rotary DIP Switch
  - 7 or 10mm
  - IP67 Process Sealed
  - Multiple Actuator & Position Options
  - Straight or Gull Wing Terminations

- Mini, Sub-Mini & Ultra Sub-Mini
  - Multiple Force Options
  - Multiple Lever Options
  - Multiple Terminal Options
  - Latching Option

### Poles

<table>
<thead>
<tr>
<th>Series</th>
<th>K</th>
<th>RD07 &amp; RD10</th>
<th>DM3, SM3, VM3, VM3S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pole</td>
<td>SPST ~ 12PST</td>
<td>4 to 16 positions</td>
<td>SPST N.C. &amp; N.O., SPDT</td>
</tr>
<tr>
<td>Function</td>
<td>On-Off</td>
<td>Multiple</td>
<td>Latching &amp; Momentary</td>
</tr>
<tr>
<td>Contact Rating</td>
<td>up to 25mA</td>
<td>up to 50A</td>
<td>up to 16A</td>
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</table>

### Approvals

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<thead>
<tr>
<th>Series</th>
<th>K</th>
<th>RD07 &amp; RD10</th>
<th>DM3, SM3, VM3, VM3S</th>
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</thead>
<tbody>
<tr>
<td>Approvals</td>
<td>UL Approved</td>
<td></td>
<td></td>
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</tbody>
</table>
### Miniature Pushbutton Switch
- Numerous Cap Styles
- PC Terminal or Snap-In PC
- 2 ~ 4 Pole

- **LP, DS & LPH, DL, MP & RPH**

<table>
<thead>
<tr>
<th>Switch Type</th>
<th>Contact Configuration</th>
<th>Contact Rating</th>
<th>Latching &amp; Momentary</th>
<th>UL Approved</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPDT &amp; 4PDT</td>
<td>Latching &amp; Momentary</td>
<td>up to 100mA</td>
<td>up to 300mA</td>
<td></td>
</tr>
<tr>
<td>Latching &amp; Momentary</td>
<td>up to 500mA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Illuminated Pushbutton Switch
- PC Mount
- Bi-Color LED Option
- Available with or without Cap
- Laser Etching Option

### Horizontal Pushbutton Switch
- Piggyback Style Available
- Multiple Cap Styles
- 2 ~ 10 Poles
- Interlocked/Ganged Option

- **1000, MS, SMS**

<table>
<thead>
<tr>
<th>Switch Type</th>
<th>Contact Configuration</th>
<th>Contact Rating</th>
<th>Latching &amp; Momentary</th>
<th>UL Approved</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPST N.O. ~ 4PDT</td>
<td>Latching &amp; Momentary</td>
<td>up to 500mA</td>
<td></td>
<td></td>
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<tr>
<td>SPDT ~ 10PDT</td>
<td>Latching &amp; Momentary</td>
<td>up to 500mA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Mini & Sub-Mini & Ultra Sub-Mini
- Standard & Right Angle
- IP67 Process Sealed Version
- Thru Hole, Surface Mount & Panel
- Steel & Nylon housings

- **ANT, AST, BNT, BST**

<table>
<thead>
<tr>
<th>Switch Type</th>
<th>Contact Configuration</th>
<th>Contact Rating</th>
<th>Latching &amp; Momentary</th>
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</tr>
</thead>
<tbody>
<tr>
<td>SPDT ~ 4P3T</td>
<td>Multiple</td>
<td>up to 5A</td>
<td>up to 5A</td>
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<tr>
<td>Latching &amp; Momentary</td>
<td>up to 3A</td>
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<td></td>
</tr>
<tr>
<td>UL Approved</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### Mini & Sub-Mini Pushbutton Switch
- Non-Sealed & Sealed Types
- Wide Variety of Terminals
- Panel Mount, Thru-Hole & PCB
- Gold Contacts Available

### Mini & Sub-Mini Rocker Switch
- Non-Sealed & Sealed Types
- Wide Variety of Terminals
- Panel Mount, Thru-Hole & PCB
- Gold Contacts Available

### Mini & Sub-Mini Toggle Switch
- Non-Sealed & Sealed Types
- Panel Mount, Thru-Hole & PCB
- Wide Variety of Terminals
- Gold Contacts Available

- **SSP & SST**

<table>
<thead>
<tr>
<th>Switch Type</th>
<th>Contact Configuration</th>
<th>Contact Rating</th>
<th>Latching &amp; Momentary</th>
<th>UL Approved</th>
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<tbody>
<tr>
<td>SPDT ~ 4PDT</td>
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<td>up to 5A</td>
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<td></td>
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<tr>
<td>SPST, SPDT, DPST, DPDT</td>
<td>Momentary</td>
<td>up to 3A</td>
<td></td>
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<tr>
<td>SPST &amp; SPDT</td>
<td>Multiple</td>
<td>up to 3A</td>
<td></td>
<td></td>
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<tr>
<td>0.4mA</td>
<td></td>
<td></td>
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</tbody>
</table>
### Series J097

**Features**
- Switching Capacity up to 10A
- Low Coil Power Consumption
- UL Approval : E197851

**Dimensions (LxWxH mm)**
18.0 x 10.0 x 15.3

**Contact Arrangement**
1C

**Contact Ratings**
- 10A @ 120VAC Resistive, 10k cycles
- 10A @ 277VAC Resistive, 10k cycles
- 5A @ 240VAC Resistive, 10k cycles
- 3A @ 120VAC Resistive, 10k cycles
- TV-5 @ 120VAC 25K cycles

**Coil Voltage Options**
- 3 ~ 48VDC

**Electrical Life**
100K cycles

**Operating Temperature**
-40°C to 85°C

**PC Board Layout**

---

### Series J099

**Features**
- High Sensivity
- Switching Current up to 12A
- UL Approval : E198751

**Dimensions (LxWxH mm)**
18.4 x 15.0 x 10.3

**Contact Arrangement**
1A

**Contact Ratings**
- 10A @ 277VAC General Purpose, 100k cycles
- 10A @ 30VDC General Purpose, 100k cycles
- 12A @ 125VAC Resistive, 100k cycles

**Coil Voltage Options**
- 3 ~ 48VDC

**Electrical Life**
100K cycles

**Operating Temperature**
-40°C to 85°C

**PC Board Layout**

---

### Series J100

**Features**
- Switching Capacity up to 10A
- Low Coil Power Consumption
- UL Approval : E197851

**Dimensions (LxWxH mm)**
18.3 x 10.3 x 15.5

**Contact Arrangement**
1A

**Contact Ratings**
- 10A @ 120VAC Resistive, 10k cycles
- 10A @ 277VAC Resistive, 10k cycles
- 5A @ 240VAC Resistive, 10k cycles
- 3A @ 30VDC Resistive, 10k cycles
- TV-5 @ 120VAC 25K cycles

**Coil Voltage Options**
- 3 ~ 48VDC

**Electrical Life**
100K cycles

**Operating Temperature**
-40°C to 85°C

**PC Board Layout**

---

### Series J102

**Features**
- High Sensitivity & Super Light Weight
- Ideal for High Density Mounting
- UL Approval : E197851

**Dimensions (LxWxH mm)**
15.5 x 10.5 x 11.25

**Contact Arrangement**
1A, 1B, 1C

**Contact Ratings**
- AgNi
  - 3A & 5A @ 125VAC General Purpose
  - 3A & 5A @ 30VDC Resistive
- Ag
  - 1A & 3A @ 125VAC General Purpose
  - 1A & 3A @ 30VDC Resistive
  - Pilot Duty 270VA, 120VAC

**Coil Voltage Options**
- 3 ~ 24VDC

**Electrical Life**
100K cycles

**Operating Temperature**
-40°C to 85°C

**PC Board Layout**

---

### Series J103

**Features**
- Low Coil Power Consumption
- Conforms to FCC Part 68
- UL Approval : E197851

**Dimensions (LxWxH mm)**
12.5 x 7.5 x 10.0

**Contact Arrangement**
1C

**Contact Ratings**
- 2A @ 120VAC Resistive
- 2A @ 24VDC Resistive
- 2A @ 30VDC NO Resistive
- .6A @ 125VAC Resistive

**Coil Voltage Options**
- 3 ~ 24VDC

**Electrical Life**
100K cycles

**Operating Temperature**
-40°C to 85°C

**PC Board Layout**

---

### Series J104A, B, C

**Features**
- Bifurcated Contacts, High Reliability
- Conforms to FCC Part 68
- UL Approval : E197851

**Dimensions (LxWxH mm)**
20.0 x 9.8 x 10.8

**Contact Arrangement**
2C

**Contact Ratings**
- 2A @ 120VAC Resistive
- 3A @ 30VDC NO Resistive
- .6A @ 125VAC Resistive

**Coil Voltage Options**
- 3 ~ 48VDC

**Electrical Life**
500K cycles

**Operating Temperature**
-40°C to 85°C

**PC Board Layout**

---
J104D

- Clearance >1.2mm, Coil and Contacts
- Creepage >1.9mm, Coil and Contacts
- UL Approval: E197851

Dimensions: 20.4 x 10.1 x 11.0

J105D

- Switch Capacity up to 10A
- High Contact Load
- UL Approval: E198751

Dimensions: 20.6 x 10.2 x 15.8

J107E3

- 10A Economical Version
- PC Board Mounting
- UL Approval: E198751

Dimensions: 19.0 x 15.5 x 15.3

J107F

- F Class Insulation Standard
- PC Board Mounting
- UL Approval: E198751 & TÜV

Dimensions: 19.0 x 15.5 x 15.3

J109F

- Low Profile
- PC Board Mounting
- UL Approval: E198752

Dimensions: 22.2 x 16.5 x 10.9

J111

- 5VDC, 12VDC, 24VDC

Dimensions: 22.2 x 16.5 x 10.9

Specifications and availability subject to change without notice.
### Series J113

**Features**
- Narrow Width: 7.1mm
- UL / cUL Certified
- UL Approval: E198751

**Dimensions (LxWxH mm)**
- 20.5 x 7.1 x 15.2

**Contact Arrangement**
- 1A

**Contact Ratings**
- 5A @ 277VAC Resistive, 100k cycles
- 5A @ 30VDC Resistive, 100k cycles

**Coil Voltage Options**
- 5VDC, 12VDC, 18VDC, 24VDC

**Electrical Life**
- 5 ~ 110VDC & 12 ~ 277VAC

**Operating Temperature**
- -40°C to 105°C

**PC Board Layout**

### Series J114AF

**Features**
- Switching Capacity up to 16A
- 20mm Height
- UL Approval: E198751

**Dimensions (LxWxH mm)**
- 29.0 x 12.7 x 20.0

**Contact Arrangement**
- 1A, 1C, 2A, 2C

**Contact Ratings**
- 1A & 1C: 16A @ 250VAC, 30VDC Resistive, 70°C
- 1AH & 1CH: 16A @ 240VAC, 30VDC Resistive
- 2A & 2C: 8A @ 250VAC Resistive, 70°C

**Coil Voltage Options**
- 5VDC, 12VDC, 18VDC, 24VDC

**Electrical Life**
- 5 ~ 110VDC & 12 ~ 277VAC

**Operating Temperature**
- -40°C to 125°C

**PC Board Layout**

### Series J114FL & J114FLH

**Features**
- Switching Capacity up to 16A & 20A
- Low Profile: 15.7mm
- UL Approval: E198751

**Dimensions (LxWxH mm)**
- 29.2 x 13.2 x 15.7

**Contact Arrangement**
- 1A, 1C, 2A, 2C

**Contact Ratings**
- 1A @ 275VAC, 30VDC GP, 85°C
- 8A @ 277VAC, 30VDC GP, 85°C
- NO: 20A @ 250VAC Resistive 50K cycles 105°C
- 1A @ 250VAC Resistive 100K cycles 105°C

**Coil Voltage Options**
- 5 ~ 110VDC & 12 ~ 277VAC

**Electrical Life**
- 5 ~ 110VDC & 12 ~ 277VAC

**Operating Temperature**
- -55°C to 125°C

**PC Board Layout**

### Series J115F1

**Features**
- Heavy Contact Load
- Strong Shock & Vibration Resistance
- UL Approval: E198752 & TÜV

**Dimensions (LxWxH mm)**
- 31.7 x 26.9 x 20.3

**Contact Arrangement**
- 1A, 1B, 1C

**Contact Ratings**
- NO: 40A @ 250VAC Resistive, 20A @ 250VAC GP, 50K cycles 125°C
- NC: 30A @ 240VAC Resistive, 20A @ 240VAC GP, 30A @ 300VDC Resistive, 5A @ 280VAC Ballast, 1 1/2hp @ 250VAC

**Coil Voltage Options**
- 5 ~ 110VDC & 12 ~ 277VAC

**Electrical Life**
- 100K cycles

**Operating Temperature**
- -55°C to 125°C

**PC Board Layout**

### Series J115F2

**Features**
- Heavy Contact Load
- Strong Shock & Vibration Resistance
- Switching Capacity up to 16A & 20A

**Dimensions (LxWxH mm)**
- 31.9 x 26.8 x 28.1

**Contact Arrangement**
- 1A, 1B, 1C

**Contact Ratings**
- NO: 16A @ 277VAC General Purpose, 2hp @ 250VAC
- NC: 30A @ 240VAC, 8A @ 30VDC GP, 85°C

**Coil Voltage Options**
- 5 ~ 110VDC & 12 ~ 277VAC

**Electrical Life**
- 100K cycles

**Operating Temperature**
- -55°C to 125°C

**PC Board Layout**

### Series J115F3

**Features**
- Heavy Contact Load
- Strong Shock & Vibration Resistance
- UL Approval: E198752 & TÜV

**Dimensions (LxWxH mm)**
- 32.4 (50.0) x 26.8 x 28.1

**Contact Arrangement**
- 1A, 1B, 1C

**Contact Ratings**
- NO: 40A @ 240VAC Resistive, 20A @ 240VAC Resistive 30A @ 277VAC General Purpose, 25A @ 277VAC
- NC: 30A @ 240VAC Resistive, 2A @ 277VAC GP, 3A @ 277VAC Resistive, 5A @ 280VAC Ballast, 1 1/2hp @ 250VAC

**Coil Voltage Options**
- 5 ~ 110VDC & 12 ~ 277VAC

**Electrical Life**
- 100K cycles

**Operating Temperature**
- -55°C to 125°C

**PC Board Layout**
### J115F_E
- 30A Economical Version
- Low Coil Power Consumption
- UL Approval: E198752 & TÜV

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>31.7 x 26.9 x 20.3</th>
<th>31.7 x 26.9 x 20.3</th>
<th>21.5 x 15.8 x 16.5</th>
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<td>3A @ 240VAC; 14VDC</td>
<td>1A</td>
<td>1A, 1B, 1C</td>
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<tr>
<td>NC</td>
<td>20A @ 240VAC; 14VDC</td>
<td>1.8mm Contact Gap</td>
<td>1A, 1B, 1C</td>
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<td>UL Rating NO</td>
<td>30A @ 240VAC Resistive</td>
<td>3A @ 250/277VAC Resistive</td>
<td>3A @ 240VAC Resistive</td>
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<td>Standard Gap</td>
<td>50A @ 250/277VAC General Purpose &amp; Resistive, 20k cycles</td>
<td>50A @ 250/277VAC General Purpose &amp; Resistive, 20k cycles</td>
<td>50A @ 240VAC Resistive, 10k cycles</td>
</tr>
</tbody>
</table>

#### Specifications:
- 5 ~ 110VDC
- 100K cycles
- -55°C to 125°C
- 1A, 1B, 1C

#### Ratings:
- NO: 30A @ 240VAC; 14VDC Resistive, 50k cycles
- NC: 20A @ 240VAC; 14VDC Resistive, 50k cycles

### J115F1K
- 1.8mm Contact Gap Option
- IEC 60335-1
- UL Approval: E198752

#### Specifications:
- 1A
- 1.8mm Contact Gap
- 35A @ 250/277VAC Resistive, 50k cycles

#### Ratings:
- NO: 20A @ 240VAC; 14VDC Resistive, 10k cycles
- NC: 35A @ 240VAC; 14VDC Resistive, 10k cycles

### J115F_50 Amp
- 50A Economical Version
- Heavy Contact Load
- UL Approval: E198752

#### Specifications:
- 1A, 1B, 1C
- 50A @ 240VAC Resistive, 50k cycles
- 1/2hp @ 125VAC

#### Ratings:
- NO: 50A @ 240VAC; 14VDC Resistive, 50k cycles
- NC: 35A @ 240VAC; 14VDC Resistive, 50k cycles

### J116F1
- 50A in Industry’s Smallest Package
- 5kV Dielectric Strength
- UL Approval: E198752

#### Specifications:
- 29 x 21.5 x 15.3
- 1A
- 50A @ 277VAC Resistive, 6k cycles
- 40A @ 277VAC Resistive, 20k cycles
- 30A @ 277VAC Resistive, 50k cycles
- 1HP @ 125VAC, 100K cycles
- TV-8 @ 250VAC, 25K cycles

#### Ratings:
- 8A @ 250VAC
- 8A @ 30VDC
- 100K Cycles at 70°C Ambient

### J117F
- Low Profile: 12.3mm, Narrow Width
- Creepage > 8mm
- UL Approval: E198751

#### Specifications:
- 28.5 x 10.1 x 12.3
- 1A, 1C
- 8A @ 250VAC
- 8A @ 30VDC
- 1/2hp @ 125VAC
- TV-5 @ 120VAC

#### Ratings:
- NO: 10A @ 120VAC Resistive
- 20A @ 14VDC Resistive
- 10A @ 14VDC Resistive
- TV-8 @ 120VAC

### J118
- Low Coil Power Consumption
- PC Board Mounting
- UL Approval: E198752

#### Specifications:
- 15.5 x 12.2 x 13.8
- 1A, 1B, 1C
- 5A @ 24VDC
- 100K cycles
- -40°C to 125°C

#### Ratings:
- NO: 10A @ 120VAC Resistive
- 20A @ 14VDC Resistive
- 1/2hp @ 125VAC
- TV-5 @ 120VAC

---

Dimensions shown in mm. Dimensions are shown for reference purposes only. Specifications and availability subject to change without notice.

Datasheets and complete product information at www.cinelay.com
### Series J120D
- **Features**
  - Switching Capacity up to 20A
  - Designed to Withstand High In-Rush
  - UL Approval: E198751
- **Dimensions (LxWxH mm)**
  - 30.0 x 15.5 x 23.3 (33.0)
- **Contact Arrangement**
  - 1A
- **Contact Ratings**
  - 20A @ 250VAC General Purpose
- **Coil Voltage Options**
  - 5 ~ 48VDC
- **Electrical Life**
  - 100K cycles
- **Operating Temperature**
  - -30°C to 55°C
- **PC Board Layout**

### Series J123F
- **Features**
  - Capable of Handling 1000W Lamp Loads
  - Designed to Withstand High In-Rush
  - UL Approval: E198752 & TÜV
- **Dimensions (LxWxH mm)**
  - 19.5 x 16.1 x 17.1
- **Contact Arrangement**
  - 1A, 1C
- **Contact Ratings**
  - 20A @ 125VAC 16A @ 277VAC
  - 10A @ 250VAC GP, 20k, 85°C 1hp @ 125/250 NO
  - 1/2hp @ 125/250 NC TV-8 @ 120VAC
- **Coil Voltage Options**
  - 5 ~ 48VDC
- **Electrical Life**
  - 100K cycles
- **Operating Temperature**
  - -55°C to 125°C
- **PC Board Layout**

### Series J151
- **Features**
  - Switching Capacity up to 20A
  - High Contact Load
  - UL Approval: E198752
- **Dimensions (LxWxH mm)**
  - 21.6, 30.6, 40.6 x 27.6 x 35.0
- **Contact Arrangement**
  - 1A, 2A, 3A, 4A, 1B, 2B, 3B, 4B, 1C, 2C, 3C, 4C
- **Contact Ratings**
  - 20A @ 277VAC GP 20A @ 28VDC GP
  - 10A @ 277VAC GP 1/2hp @ 125VAC
  - 2A @ 28VDC GP 12A @ 28VDC GP
  - 10A @ 277VAC GP TÜV Rating: 2 Pole 5A @ 220VAC, 28VDC
- **Coil Voltage Options**
  - 12 ~ 110VDC & 12 ~ 220VAC 3 ~ 24VDC
- **Electrical Life**
  - 500K, 200K or 100K cycles 200K cycles
- **Operating Temperature**
  - -40°C to 85°C
- **PC Board Layout**

### Series J152
- **Features**
  - Switching Capacity up to 10A
  - Low Coil Power Consumption
  - UL Approval: E198751 & TÜV
- **Dimensions (LxWxH mm)**
  - 27.0 x 21.0 x 35.0
- **Contact Arrangement**
  - 2A, 3A, 4A, 2B, 3B, 4B, 2C, 3C, 4C
- **Contact Ratings**
  - UL Rating: 2 & 3 Pole 10A @ 220VAC GP
  - 2A @ 28VDC GP 10A @ 28VDC GP
  - UL Rating: 4 Pole 5A @ 220VAC GP
  - 5A @ 28VDC GP .5A @ 125VAC Resistive
  - TÜV Rating: 2 Pole 5A @ 220VAC, 28VDC
- **Coil Voltage Options**
  - 12 ~ 110VDC & 12 ~ 220VAC 3 ~ 24VDC
- **Electrical Life**
  - 500K, 200K or 100K cycles 200K cycles
- **Operating Temperature**
  - -40°C to 85°C
- **PC Board Layout**

### J850 & J850SM
- **Features**
  - Monostable
  - Ultra Low Profile: 4.90mm Height
  - UL Approval: E198751
- **Dimensions (LxWxH mm)**
  - 14.0 x 9.0 x 4.9
- **Contact Arrangement**
  - 2C
- **Contact Ratings**
  - 1A @ 30VDC Resistive
  - .5A @ 125VAC Resistive
- **Coil Voltage Options**
  - 12 ~ 110VDC & 12 ~ 220VAC 3 ~ 24VDC
- **Electrical Life**
  - 500K, 200K or 100K cycles 200K cycles
- **Operating Temperature**
  - -40°C to 85°C
- **PC Board Layout**

---

**NEWEST OFFERING**

The J115F1K Series offers wide contact terminals for better heat transfer and a 1.8mm contact gap.

UL/cUL Approved

See page 17 for more info.
### Series PC113

#### Features
- 12 & 20 Amp General Purpose
- AC or DC Coil Option
- UL Approval : E86876

#### Dimensions (LxWxH mm)
28 x 21.5 x 35

#### Contact Arrangement
1A, 1C, 2A, 2C

#### Contact Ratings
- 20A @ 277VAC / 28VDC
- 12A @ 250VAC / 28VDC
- 10A @ 277VAC
- 1/2hp @ 125VAC

#### Coil Voltage Options
- 12 ~ 220VDC & 12 ~ 240VAC

#### Operating Temperature
- -40°C to 85°C

#### PC Board Layout

### Series PC118

#### Features
- Miniature 2, 3 or 4 Pole General Purpose
- AC or DC Coil Option
- UL Approval : E86876

#### Dimensions (LxWxH mm)
28 x 21.5 x 35

#### Contact Arrangement
2C, 3C, 4C

#### Contact Ratings
- 2C : 10A @ 220VAC / 28VDC
- 3C : 10A @ 220VAC / 28VDC
- 4C : 5A @ 220VAC / 28VDC

#### Coil Voltage Options
- 12 ~ 110VDC & 12 ~ 220VAC

#### Operating Temperature
- -40°C to 85°C

#### PC Board Layout

### Series PC180

#### Features
- 10 Amp Power Relay
- AC or DC Coil Option
- UL Approval : E86876

#### Dimensions (LxWxH mm)
36 x 36 x 53

#### Contact Arrangement
2C, 3C

#### Contact Ratings
- 10A @ 250VAC / 30VDC Resistive
- 7A @ 250VAC / 30VDC General Purpose

#### Coil Voltage Options
- 6 ~ 220VDC & 6 ~ 240VAC

#### Operating Temperature
- -10°C to 55°C

#### PC Board Layout

### Series PC236

#### Features
- 10 & 20 Amp Subminiature
- Suitable for Automotive & Power
- UL Approval : E93379

#### Dimensions (LxWxH mm)
15.5 x 12.2 x 13.8

#### Contact Arrangement
1C

#### Contact Ratings
- 10A @ 120VAC NO
- 20A @ 14VDC NO
- 10A @ 14VDC NC

#### Coil Voltage Options
- 9 ~ 24VDC

#### Operating Temperature
- -40°C to 85°C

#### PC Board Layout
### Series PC307

**Features**
- 1 Amp Ultraminiature PCB Telecom
- High Sensitivity
- UL Approval: E86876

**Dimensions (LxWxH mm)**
- 12.5 x 7.5 x 10

**Contact Arrangement**
- 1C

**Contact Ratings**
- 2A @ 120VDC
- 1A @ 30VDC
- .3A @ 60VDC

### Series PC312 & PC312B

**Features**
- Subminiature PCB Telecom
- PC Terminals on 0.1" Grid
- UL Approval: E86876

**Dimensions (LxWxH mm)**
- 15.5 x 10.5 x 11.25

**Contact Arrangement**
- 1C

**Contact Ratings**
- 3A @ 125VAC / 30VDC
- 5A @ 125VAC / 30VDC

### Series PC322

**Features**
- Subminiature PCB Telecom
- Bifurcated Crossbar Contacts
- UL Approval: E86876

**Dimensions (LxWxH mm)**
- 21 x 9.8 x 10.8

**Contact Arrangement**
- 2C

**Contact Ratings**
- 1A @ 125VAC / 24VDC
- 2A @ 30VDC

---

### Series PC323

**Features**
- Subminiature PCB Telecom
- Bifurcated Crossbar Contact
- UL Approval: E86876

**Dimensions (LxWxH mm)**
- 20.3 x 10 x 11.2

**Contact Arrangement**
- 2C

**Contact Ratings**
- 2A @ 30VDC Resistive
- 3A @ 30VDC NO General Purpose
- .6A @ 125VAC Resistive
- 12A @ 125VAC / 28VDC General Purpose
- 6A @ 30VAC General Purpose
- 10A @ 240VAC Resistive
- 1/3hp @ 120VAC / 240VAC Inductive

### Series PC333

**Features**
- 12 Amp Subminiature PCB Power
- Sensitive Coil Available
- UL Approval: E86876

**Dimensions (LxWxH mm)**
- 22.3 x 17.3 x 14.5

**Contact Arrangement**
- 1A, 1C

**Contact Ratings**
- 12A @ 125VAC / 28VDC General Purpose
- 6A @ 30VAC General Purpose
- 10A @ 240VAC Resistive
- 1/3hp @ 120VAC / 240VAC Inductive
- 12A @ 250VAC / 30VDC General Purpose
- 12A @ 250VAC / 30VDC Resistive
- 12A @ 250VAC NC General Purpose
- 16A @ 250VAC NO General Purpose
- 16A @ 277VAC Resistive
- 8A @ 277VAC / 30VDC General Purpose
- 8A @ 277VAC / 30VDC Resistive

### Series PC375

**Features**
- Low Profile PCB Power
- Four Versions Available
- UL Approval: E86876

**Dimensions (LxWxH mm)**
- 29.2 x 13.2 x 15.7

**Contact Arrangement**
- 1A, 1C, 2A, 2C

**Contact Ratings**
- 12A @ 250VAC / 30VDC General Purpose
- 12A @ 250VAC / 30VDC Resistive
- 12A @ 250VAC NC General Purpose
- 16A @ 250VAC NO General Purpose
- 16A @ 277VAC Resistive
- 8A @ 277VAC / 30VDC General Purpose
- 8A @ 277VAC / 30VDC Resistive

**Contact Ratings**
- 12A @ 125VAC / 28VDC General Purpose
- 6A @ 30VAC General Purpose
- 10A @ 240VAC Resistive
- 1/3hp @ 120VAC / 240VAC Inductive
- 12A @ 250VAC / 30VDC General Purpose
- 12A @ 250VAC / 30VDC Resistive
- 12A @ 250VAC NC General Purpose
- 16A @ 250VAC NO General Purpose
- 16A @ 277VAC Resistive
- 8A @ 277VAC / 30VDC General Purpose
- 8A @ 277VAC / 30VDC Resistive

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**Coil Voltage Options**
- 3 ~ 24VDC
- 3 ~ 48VDC
- 5 ~ 24VDC

**Electrical Life**
- 100K cycles
- 100K cycles
- 100K cycles

**Operating Temperature**
- -40°C to 85°C
- -40°C to 85°C
- -40°C to 85°C
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<tr>
<th>PC376</th>
<th>PC378</th>
<th>PC415</th>
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<td><strong>• 10 Amp Subminiature Power</strong></td>
<td><strong>• 10 Amp Low Profile Subminiature Power</strong></td>
<td><strong>• 10 Amp Subminiature PCB Power</strong></td>
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<td><strong>• B Class or F Class Insulation</strong></td>
<td><strong>• 6 Contact Form Options</strong></td>
<td><strong>• Class B or Class F Insulation</strong></td>
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<td>28.5 x 10.1 x 12.3</td>
<td>19 x 15.5 x 15.3</td>
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<td>1A, 1C, 1C2, 2A, 2B, 2C</td>
<td>1A, 1B, 1C</td>
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<td>16A @ 250VAC / 30VDC NO</td>
<td>8A @ 250VAC / 30VDC</td>
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<td>10A @ 250VAC / 30VDC</td>
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<td>1/3hp @ 125VAC / 277VAC</td>
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<td>3 ~ 48VDC</td>
<td>5 ~ 60VDC</td>
<td>3 ~ 48VDC</td>
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<td><strong>• 5 Amp Ultra Slim Miniature PCB Power</strong></td>
<td><strong>• 20 Amp Subminiature PCB Power</strong></td>
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<tr>
<td><strong>• Class B or Class F Insulation</strong></td>
<td><strong>• Sensitive 200 Milliwatt Coil</strong></td>
<td><strong>• Class F Insulation</strong></td>
</tr>
<tr>
<td><strong>• UL Approval : E86876</strong></td>
<td><strong>• UL Approval : E86876</strong></td>
<td><strong>• UL Approval : E93379</strong></td>
</tr>
<tr>
<td>19.5 x 15.6 x 15.7</td>
<td>17.5 x 6.5 x 12.5</td>
<td>19.5 x 16.1 x 17.1</td>
</tr>
<tr>
<td>1A, 1B, 1C</td>
<td>1A</td>
<td>1A, 1B, 1C</td>
</tr>
<tr>
<td>15A @ 120VAC / 28VDC</td>
<td>5A @ 250VAC</td>
<td>20A @ 120VAC Resistive</td>
</tr>
<tr>
<td>10A @ 240VAC</td>
<td>5A @ 30VDC</td>
<td>16A @ 277VAC General Purpose</td>
</tr>
<tr>
<td>6A @ 277VAC</td>
<td></td>
<td>10A @ 250VAC General Purpose</td>
</tr>
<tr>
<td>20A @ 16VDC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/3hp @ 125VAC / 277VAC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 ~ 48VDC</td>
<td>5 ~ 24VDC</td>
<td>3 ~ 48VDC</td>
</tr>
<tr>
<td>100K cycles</td>
<td>100K cycles</td>
<td>100K cycles</td>
</tr>
<tr>
<td>-55°C to 85°C</td>
<td>-25°C to 70°C</td>
<td>-40°C to 85°C</td>
</tr>
</tbody>
</table>

---

Specifications and availability subject to change without notice.

Datasheets and complete product information at www.cileley.com
### Series PC521

**Features**
- 20 Amp Subminiature PCB Power
- Class B or Class F Insulation
- UL Approval: E93379

**Dimensions (LxWxH mm)**
- 21.3 x 16.2 x 20.8

**Contact Arrangement**
- 1A, 1B, 1C

**Contact Ratings**
- 16A @ 277VAC General Purpose
- 10A @ 250VAC General Purpose
- 20A @ 125VAC Resistive
- TV-8 @ 125VAC

**coil Voltage Options**
- 3 ~ 48VDC

**Electrical Life**
- 100K cycles

**Operating Temperature**
- -40°C to 85°C

**PC Board Layout**

### Series PC673

**Features**
- 30 Amp Power
- Packaging Options
- UL Approval: E86876

**Dimensions (LxWxH mm)**
- 68.5 x 34 x 55

**Contact Arrangement**
- 1A, 2A

**Contact Ratings**
- 1A: 30A @ 277VAC
- 3hp @ 240VAC
- 1 1/2hp @ 120VAC

**coil Voltage Options**
- 6 ~ 220VDC & 6 ~ 400VAC

**Electrical Life**
- 100K cycles

**Operating Temperature**
- -25°C to 60°C

**PC Board Layout**

### Series PC730

**Features**
- 30 Amp Power Relay
- 1/4" Inch Male Quick Connect
- Flange or PC Mounting

**Dimensions (LxWxH mm)**
- 33.5 x 35.6 x 42

**Contact Arrangement**
- 2A, 2C

**Contact Ratings**
- 30A @ 250VAC General Purpose
- 20A @ 277VAC General Purpose
- 20A @ 28VDC General Purpose
- 30A @ 250VAC Resistive
- 20A @ 277VAC Resistive
- 1-1/2hp @ 240VAC / 1hp @ 120VAC

**coil Voltage Options**
- 12 ~ 277VAC / 12 ~ 110VDC

**Electrical Life**
- 100K cycles

**Operating Temperature**
- -40°C to 85°C

**PC Board Layout**

---

### Series PC740

**Features**
- 30 Amp Power Relay
- 1/4" Inch Male Quick Connect
- Flange or PC Mounting

**Dimensions (LxWxH mm)**
- 42 x 38.2 x 55

**Contact Arrangement**
- 2A, 2C, 3A, 3C

**Contact Ratings**
- 40A @ 120VAC Resistive
- 30A @ 250VAC Resistive
- 40A @ 250VAC General Purpose
- 1-1/2hp @ 120VAC
- 2hp @ 250VAC

**coil Voltage Options**
- 12 ~ 240VAC / 12 ~ 110VDC

**Electrical Life**
- 100K cycles

**Operating Temperature**
- -40°C to 85°C

**PC Board Layout**

### Series PC834

**Features**
- 12 & 20 Amp Miniature
- Class B or Class F Insulation
- UL Approval: E86876

**Dimensions (LxWxH mm)**
- 18.4 x 15.2 x 10.2

**Contact Arrangement**
- 1A

**Contact Ratings**
- 10A @ 277VAC / 30VDC General Purpose
- 12A @ 125VAC General Purpose
- 10A @ 277VAC / 30VDC Resistive
- 12A @ 125VAC Resistive
- TV-5 @ 125VDC

**coil Voltage Options**
- 3 ~ 24VDC

**Electrical Life**
- 100K cycles

**Operating Temperature**
- -40°C to 105°C

**PC Board Layout**

### Series PC835

**Features**
- 10 Amp Subminiature Power PCB
- Class F Insulation
- UL Approval: E93379

**Dimensions (LxWxH mm)**
- 18 x 10 x 15.3

**Contact Arrangement**
- 1A, 1C

**Contact Ratings**
- 5A @ 250VAC General Purpose
- 4.2A @ 277VAC GP & Resistive
- 10A @ 125VAC Resistive
- 5A @ 240VAC Resistive
- 1/4hp @ 120/240/277VAC
- TV-5 @ 125VAC; 24VA @ 24VAC Pilot Duty

**coil Voltage Options**
- 3 ~ 24VDC

**Electrical Life**
- 100K cycles

**Operating Temperature**
- -40°C to 105°C

**PC Board Layout**
NEWEST OFFERING

The PC730 & PC740 Series are 30 Amp Power Relays.
UL/cUL Approved
See page 18 for more info.
### Series

#### L114FL
- Single Coil or Double Coil Latching
- Creepage Distance 8.4mm
- UL Approval: E198751

#### L115F1
- Single Coil Latching
- Heavy Contact Load
- UL Approval: E198752

#### L115F2
- Single Coil Latching
- Strong Shock & Vibration Resistance
- UL Approval: E198752

<table>
<thead>
<tr>
<th>Dimensions (LxWxH mm)</th>
<th>29.0 x 12.7 x 15.7</th>
<th>26.9 x 31.7 x 20.3</th>
<th>31.9 x 26.8 x 28.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Ratings</td>
<td>NO: 16A @ 240VAC Resistive; 50k cycles; 85°C ambient NC: 16A @ 240VAC Resistive; 50k cycles; 85°C ambient NO: 30A @ 277VAC Resistive; 6k cycles; 25°C ambient NC: 30A @ 277VAC Resistive; 6k cycles; 25°C ambient NO: 50A @ 277VAC Resistive; 6k cycles; 25°C ambient NC: 50A @ 277VAC Resistive; 6k cycles; 25°C ambient</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electrical Life</td>
<td>50K cycles</td>
<td>50K cycles</td>
<td>50K cycles</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C to 85°C</td>
<td>-55°C to 125°C</td>
<td>-55°C to 125°C</td>
</tr>
<tr>
<td>PC Board Layout</td>
<td><img src="image1.png" alt="PC Board Layout" /></td>
<td><img src="image2.png" alt="PC Board Layout" /></td>
<td><img src="image3.png" alt="PC Board Layout" /></td>
</tr>
</tbody>
</table>

### Series

#### PC10L
- 50 Amp Latching PCB
- Single or Dual Coil
- UL Approval: E86876

#### PC302
- 1 Amp Microminiature
- DIL Package for PCB or Socket
- UL Approval: E86876

#### PC302S
- Surface Mount 1 Amp Microminiature
- DIL Package for PCB or Socket
- UL Approval: E86876

<table>
<thead>
<tr>
<th>Dimensions (LxWxH mm)</th>
<th>39 x 15 x 26.6</th>
<th>14 x 9 x 4.9</th>
<th>14 x 9 x 4.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Arrangement</td>
<td>1A</td>
<td>2C</td>
<td>2C</td>
</tr>
<tr>
<td>Contact Ratings</td>
<td>50A @ 277VAC Resistive 5,000W @ 240VAC Lamp 16A @ 277VAC Lamp 5hp @ 277VAC</td>
<td>1A @ 30VDC Resistive 0.5A @ 125VAC Resistive</td>
<td>1A @ 30VDC Resistive 0.5A @ 125VAC Resistive</td>
</tr>
<tr>
<td>Coil Voltage Options</td>
<td>6 ~ 48VDC</td>
<td>5 ~ 24VDC</td>
<td>5 ~ 24VDC</td>
</tr>
<tr>
<td>Electrical Life</td>
<td>100K cycles</td>
<td>100K cycles</td>
<td>100K cycles</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C to 70°C</td>
<td>-40°C to 85°C</td>
<td>-40°C to 85°C</td>
</tr>
<tr>
<td>PC Board Layout</td>
<td><img src="image4.png" alt="PC Board Layout" /></td>
<td><img src="image5.png" alt="PC Board Layout" /></td>
<td><img src="image6.png" alt="PC Board Layout" /></td>
</tr>
</tbody>
</table>

Dimensions shown in mm. Dimensions are shown for reference purposes only. Specifications and availability subject to change without notice.
In 2020, Circuit Interruption Technology, Inc. expanded our product offering with the acquisition of Picker Components. CIT Relay & Switch manufacturers electromechanical relays and switches, while Picker Components manufactures electromechanical and solid-state relays. Wherever opportunities arise, CIT works to provide customers the best product for the application and the most compelling support experience. Two quality manufacturers rolled into one for continued growth of CIT/Picker through paramount service, selection, quality, and value — we strive to be the best.

The combination of CIT Relay & Switch and Picker has generated value for our customers through a global network of services, and expanded engineering expertise. It has magnified our value with a wide breath of product while at the same time extracting synergies.

CIT places the customer first. We work directly with customers from simple to complicated projects, tailoring custom solutions and designs. Our technical, engineering, and customer support personnel are well-trained and can help with your design selection requirements. With a state-of-the-art test lab, CIT can address custom or standard test requirements under a variety of conditions to validate your application. From small to large projects, we are here to help with all our customers’ testing and design needs.

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**Series** | **A1 & A1M** | **A2** | **A2H**
---|---|---|---
**Features** | • Switching Capacity up to 30A  
• Automobile & Lamp Accessories  
• PCB Pin & Quick Connect Mounting | • Large Switching Capacity up to 40A  
• PCB Pin & Quick Connect Mounting  
• Two Style Mounting Flange Available | • Large Switching Capacity up to 50A  
• PCB Pin & Quick Connect Mounting  
• Low Temp Rise at Full Load |
**Dimensions (LxWxH mm)** | 22.8 x 15.3 x 25.8 / 20 x 15.2 x 22 | 26 x 26 x 24.5 (39.5) | 26 x 26 x 22.7 |
**Contact Arrangement** | 1A, 1C / 1A, 1B | 1A, 1B, 1C | 1A, 1C |
**Contact Ratings** | 1A : 25A @ 14VDC  
30A @ 14VDC  
1C : 20A @ 14VDC | 1A : 40A @ 14VDC  
1B : 30A @ 14VDC  
1C : 40A @ 14VDC NO | 1A : 50A @ 14VDC  
1C : 50A @ 14VDC NC |
**Coil Voltage Options** | 6 ~ 48VDC / 12VDC & 24VDC | 6 ~ 48VDC | 12VDC & 24VDC |
**Electrical Life** | 100K cycles | 100K cycles | 100K cycles |
**Operating Temperature** | -40°C to 85°C | -40°C to 125°C | -40°C to 125°C |
**PC Board Layout**

---

**Series** | **A2K** | **A3** | **A3K**
---|---|---|---
**Features** | • Large Switch Capacity up to 110VDC  
• Internal Blowout Magnets  
• ISO Sized | • Large Switch Capacity up to 80A  
• Automotive & Lamp Accessories  
• QS-9000, ISO-9002 Certified | • Large Switch Capacity up to 145VDC  
• Internal Blowout Magnets  
Maxi ISO Sized |
**Dimensions (LxWxH mm)** | 26.5 x 32.0 x 33.5 | 28.5 x 28.5 x 26.5 (40) | 26.5 x 32.0 x 35.5 |
**Contact Arrangement** | 1A, 1C | 1A, 1B, 1C, 1U | 1A, 1C |
**Contact Ratings** | 60A @ 14VDC  
25A @ 36VDC  
20A @ 48VDC  
15A @ 72VDC  
10A @ 90VDC  
7A @ 110VDC | Standard  
1A : 60A @ 14VDC  
1B : 40A @ 14VDC  
1C : 60A @ 14VDC NO  
40A @ 14VDC NC  
1U : 2x25A @ 14VDC | Heavy Duty  
80A @ 14VDC  
60A @ 36VDC  
50A @ 48VDC  
30A @ 72VDC  
15A @ 90VDC  
5A @ 145VDC |
**Coil Voltage Options** | 12VDC & 24VDC | 12VDC & 24VDC | 12VDC & 24VDC |
**Electrical Life** | 100K cycles | 100K cycles | 100K cycles |
**Operating Temperature** | -40°C to 155°C | -40°C to 125°C | -40°C to 125°C |
**PC Board Layout**

---

Dimensions shown in mm. Specifications and availability subject to change without notice.
### Automotive Relays

#### Specifications

- **Switching Current up to 20A**
- **Dual Relay Available**
- **Household & Auto Applications**

<table>
<thead>
<tr>
<th>Package</th>
<th>Dimensions</th>
<th>Switching Capacity</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>A4</td>
<td>16.9 x 14.5 x 19.5</td>
<td>1A, 1C, 1U, 1W, 2A, 2C, 2U, 2W</td>
<td>Switching Current up to 20A, Dual Relay Available, Household &amp; Auto Applications</td>
</tr>
<tr>
<td>A5</td>
<td>25.8 x 20.5 x 20.8</td>
<td>1A, 1B, 1C</td>
<td>Switching Capacity up to 40A, Automotive &amp; Lamp Accessories, Two Footprint Styles Available</td>
</tr>
<tr>
<td>A6</td>
<td>22.5 x 15 x 25.2</td>
<td>1A, 1C</td>
<td>Low Coil Power Consumption, Switching Current up to 30A, Household &amp; Auto Applications</td>
</tr>
</tbody>
</table>

#### Datasheets and Complete Product Information

Datasheets and complete product information at [www.citrelay.com](http://www.citrelay.com).

#### Technical Details

- **Switching Current up to 20A**
- **Switching Capacity up to 40A**
- **Automotive & Lamp Accessories**
- **Two Footprint Styles Available**
- **Household & Auto Applications**

#### Dimensions

- **A4**: 16.9 x 14.5 x 19.5 mm
- **A5**: 25.8 x 20.5 x 20.8 mm
- **A6**: 22.5 x 15 x 25.2 mm

#### Switching Current and Capacity

- **A4**: 1A, 1C, 1U, 1W, 2A, 2C, 2U, 2W
- **A5**: 1A, 1B, 1C
- **A6**: 1A, 1C

#### Operating Conditions

- **A4**: 10A @ 120VAC, 1A : 25A, 30A @ 14VDC
- **A5**: 1C : 40A @ 14VDC, 30A @ 14VDC
- **A6**: 1A : 30A @ 14VDC, 1C : 30A @ 14VDC NO, 20A @ 14VDC NC

#### Environmental Specifications

- **Operating Temperature**: -40°C to 85°C
- **Storage Temperature**: -40°C to 105°C

#### Mounting Options

- **A4**: Insert Mounting Footprint, Metal Mounting Tab
- **A5**: Switching Capacity up to 30A, Withstands High Temperature, Ultra Light Weight - 4g
- **A6**: 20A Switching Capacity, Small Size, Light Weight, Automotive & Lamp Accessories

#### Other Details

- **A4, A5, A6**: 12VDC & 24VDC, 100K cycles, -40°C to 85°C
- **A9, A10, A15**: 12 (23.8) x 12.9 x 9.9, 100K cycles, -40°C to 85°C

---

Dimensions shown in mm. Dimensions are shown for reference purposes only. Specifications and availability subject to change without notice.
### Series A16

**Features**
- 25A Switching Capacity
- F Class Insulation Standard
- Q6-9000, ISA-9002 Certified

**Dimensions (LxWxH mm)**
- 14.5 x 7.7 x 13.7

**Contact Arrangement**
- 1C

**Contact Ratings**
- 25A @ 14VDC

**Coil Voltage Options**
- 12VDC

**Electrical Life**
- 100K cycles

**Operating Temperature**
- -40°C to 105°C

**PC Board Layout**

### Series A17

**Features**
- Switching Capacity up to 30A
- Small Size and Light Weight
- Automotive & Lamp Accessories

**Dimensions (LxWxH mm)**
- 16.5 x 15.5 x 24.3

**Contact Arrangement**
- 1A

**Contact Ratings**
- 20A @ 14VDC NO

**Coil Voltage Options**
- 12VDC & 24VDC

**Electrical Life**
- 100K cycles

**Operating Temperature**
- -40°C to 105°C

**PC Board Layout**

### Series PC537

**Features**
- Switching Capacity up to 30A
- Ultra Miniature Design
- Process Sealed

**Dimensions (LxWxH mm)**
- 12 x 12.9 x 9.9

**Contact Arrangement**
- 1A, 1C

**Contact Ratings**
- 1A : 30A @ 14VDC NO
- 15A @ 28VDC NO
- 1C : 25A @ 14VDC NC
- 12.5A @ 28VDC NC

**Coil Voltage Options**
- 10VDC, 12VDC, 24VDC

**Electrical Life**
- 100K cycles

**Operating Temperature**
- -40°C to 105°C

**PC Board Layout**

### Series PC537B

**Features**
- Switching Capacity up to 20A
- Ultra Miniature Design
- Process Sealed

**Dimensions (LxWxH mm)**
- 12 x 12.9 x 9.9

**Contact Arrangement**
- 1A, 1C

**Contact Ratings**
- 1A : 20A @ 14VDC NO
- 10A @ 28VDC NO
- 1C : 15A @ 14VDC NC
- 7.5A @ 28VDC NC

**Coil Voltage Options**
- 10VDC, 12VDC, 24VDC

**Electrical Life**
- 100K cycles

**Operating Temperature**
- -40°C to 105°C

**PC Board Layout**

### Series PC565

**Features**
- Switching Capacity up to 25A
- Ultra Miniature Design
- Process Sealed

**Dimensions (LxWxH mm)**
- 14.3 x 17.5 x 13.8

**Contact Arrangement**
- 1C

**Contact Ratings**
- 1C : 30A @ 14VDC

**Coil Voltage Options**
- 12VDC

**Electrical Life**
- 100K cycles

**Operating Temperature**
- -40°C to 105°C

**PC Board Layout**

---

The PC775 & PC776 Series Power Automotive Relays
See page 25 for more info.

Dimensions shown in mm. Dimensions are shown for reference purposes only. Specifications and availability subject to change without notice.
### PC695
- **80/60 Amp Plug-In/PCB Maxi ISO**
- **Packaging Options**
- **Socket Available**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>28.5 x 28.5 x 26.5 (40)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Currents</td>
<td>1A, 1C</td>
</tr>
<tr>
<td>DC Voltages</td>
<td>1A : 80A @ 14VDC NO 40A @ 28VDC NO 1C : 60A @ 14VDC NC 30A @ 28VDC NC</td>
</tr>
</tbody>
</table>

### PC7150
- **150/100 Amp Plug-In/PCB Maxi ISO**
- **Internal Diode or Resistor Options**
- **Socket Available**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>33 x 35 x 35</th>
</tr>
</thead>
<tbody>
<tr>
<td>Currents</td>
<td>1A, 1C</td>
</tr>
<tr>
<td>DC Voltages</td>
<td>1A : 150A @ 14VDC NO 75A @ 28VDC NO 1C : 100A @ 14VDC NC 50A @ 28VDC NC</td>
</tr>
</tbody>
</table>

### PC775
- **75 Amp Screw Terminal**
- **Bifurcated Contacts Standard**
- **H Class Insulation**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>74.9 x 40 x 52.7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Currents</td>
<td>1A</td>
</tr>
<tr>
<td>DC Voltages</td>
<td>1A : 75A @ 14VDC NO 50A @ 28VDC NO</td>
</tr>
</tbody>
</table>

### PC776
- **130 Amp Screw Terminal**
- **Bifurcated Contacts Standard**
- **F Class Insulation**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>84 x 40 x 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Currents</td>
<td>1X</td>
</tr>
<tr>
<td>DC Voltages</td>
<td>1X : 130A @ 14VDC NO 65A @ 28VDC NO</td>
</tr>
</tbody>
</table>

### PC780
- **25 Amp Plug-In Micro ISO**
- **Miniature Package**
- **Socket Available**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>22.6 x 15.2 x 16.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Currents</td>
<td>1A, 1C</td>
</tr>
<tr>
<td>DC Voltages</td>
<td>1A : 25A @ 14VDC NO 12A @ 28VDC NO</td>
</tr>
</tbody>
</table>

### PC782
- **35 Amp Plug-In Micro ISO**
- **PC Board Option**
- **Internal Diode or Resistor Option**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>22.8 x 15.3 x 25.8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Currents</td>
<td>1A, 1C</td>
</tr>
<tr>
<td>DC Voltages</td>
<td>1A : 35A @ 14VDC 15A @ 28VDC 1C : 30A @ 14VDC NO 25A @ 14VDC NC 15A @ 28VDC NO 10A @ 28VDC NO</td>
</tr>
</tbody>
</table>

### PC777
- **120 Amp Screw Terminal**
- **Bifurcated Contacts Standard**
- **F Class Insulation**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>84 x 40 x 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Currents</td>
<td>1X</td>
</tr>
<tr>
<td>DC Voltages</td>
<td>1X : 120A @ 14VDC NO 60A @ 28VDC NO</td>
</tr>
</tbody>
</table>

### PC781
- **25 Amp Plug-In Micro ISO**
- **Miniature Package**
- **Socket Available**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>22.6 x 15.2 x 16.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Currents</td>
<td>1A, 1C</td>
</tr>
<tr>
<td>DC Voltages</td>
<td>1A : 25A @ 14VDC NO 12A @ 28VDC NO</td>
</tr>
</tbody>
</table>

### PC783
- **35 Amp Plug-In Micro ISO**
- **PC Board Option**
- **Internal Diode or Resistor Option**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>22.8 x 15.3 x 25.8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Currents</td>
<td>1A, 1C</td>
</tr>
<tr>
<td>DC Voltages</td>
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</tr>
</tbody>
</table>

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**Datasheets and complete product information at www.citrelay.com**

Dimensions shown in mm. Dimensions are shown for reference purposes only. Specifications and availability subject to change without notice.
### Features

- **Series PC784**
  - 35 Amp Plug-In Micro ISO
  - Internal Diode or Resistor Options
  - Socket Available

- **Series PC785**
  - 35 Amp Plug-In ISO 280 Footprint
  - Internal Diode or Resistor Options
  - Miniature Size

- **Series PC792A**
  - 40 Amp Plug-In/PCB Mini ISO
  - Internal Diode or Resistor Options
  - Socket Available

### Dimensions (LxWxH mm)

<table>
<thead>
<tr>
<th>Series</th>
<th>PC784</th>
<th>PC785</th>
<th>PC792A</th>
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<td>1A, 1 C</td>
<td>1A, 1 C</td>
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<td>15A @ 28VDC</td>
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<td>1C : 40A @ 14VDC</td>
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<td>15A @ 28VDC N0</td>
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<td>10A @ 28VDC NC</td>
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<td>Coil Voltage Options</td>
<td>12VDC, 24VDC</td>
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<td>6VDC, 9VDC, 12VDC, 24VDC, 48VDC</td>
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<td>Electrical Life</td>
<td>100K cycles</td>
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<td>Operating Temperature</td>
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### Dimensions (LxWxH mm)

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<tr>
<td>Coil Voltage Options</td>
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<td>6VDC, 12VDC, 24VDC</td>
<td>12VDC, 24VDC</td>
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<td>Electrical Life</td>
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<td>Operating Temperature</td>
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<td>-40°C to 155°C</td>
<td>-40°C to 155°C</td>
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### PC Board Layout

#### Series PC784

- Dimensions: 20 x 15.2 x 22
- Contact Arrangement: 1A, 1C
- Contact Ratings: 1A: 35A @ 14VDC, 15A @ 28VDC, 1C: 35A @ 14VDC, 20A @ 14VDC NC, 20A @ 28VDC NC, 10A @ 28VDC NC
- Coil Voltage Options: 12VDC, 24VDC
- Electrical Life: 100K cycles
- Operating Temperature: -40°C to 125°C

#### Series PC785

- Dimensions: 22.5 x 15.2 x 25.2
- Contact Arrangement: 1A, 1C
- Contact Ratings: 1A: 35A @ 14VDC, 15A @ 28VDC, 1C: 35A @ 14VDC, 20A @ 14VDC NC, 20A @ 28VDC NC, 10A @ 28VDC NC
- Coil Voltage Options: 12VDC, 24VDC
- Electrical Life: 100K cycles
- Operating Temperature: -40°C to 125°C

#### Series PC792A

- Dimensions: 26 x 26 x 24.5 (39.5)
- Contact Arrangement: 1A, 1C
- Contact Ratings: 1A: 40A @ 14VDC, 20A @ 28VDC, 1C: 40A @ 14VDC, 30A @ 14VDC NC, 20A @ 28VDC N0, 15A @ 28VDC NC
- Coil Voltage Options: 6VDC, 9VDC, 12VDC, 24VDC, 48VDC
- Electrical Life: 100K cycles
- Operating Temperature: -40°C to 125°C

#### Series PC792B

- Dimensions: 26 x 26 x 39.5
- Contact Arrangement: 1A, 1C, 1AA
- Contact Ratings: 1A: 40A @ 14VDC, 20A @ 24VDC, 1C: 40A @ 14VDC, 20A @ 24VDC NC, 1AA: 40A @ 14VDC, 20A @ 24VDC NC
- Coil Voltage Options: 6VDC, 9VDC, 12VDC, 24VDC, 48VDC
- Electrical Life: 100K cycles
- Operating Temperature: -40°C to 125°C

#### Series PC792C

- Dimensions: 29 x 29 x 26.5
- Contact Arrangement: 1A, 1C, 1U
- Contact Ratings: 1A: 50A @ 14VDC, 20A @ 28VDC, 1C: 50A @ 14VDC, 40A @ 28VDC NC, 20A @ 28VDC NC
- Coil Voltage Options: 6VDC, 12VDC, 24VDC
- Electrical Life: 100K cycles
- Operating Temperature: -40°C to 155°C

#### Series PC792E

- Dimensions: 26.5 x 26.5 x 25
- Contact Arrangement: 1A, 1C
- Contact Ratings: 1A: 50A @ 14VDC, 20A @ 28VDC, 1C: 50A @ 14VDC, 30A @ 14VDC NC, 20A @ 28VDC N0, 15A @ 28VDC NC
- Coil Voltage Options: 6VDC, 12VDC, 24VDC
- Electrical Life: 100K cycles
- Operating Temperature: -40°C to 155°C
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<td>• 70 Amp Plug-In/PCB Maxi ISO</td>
<td>• 80 Amp Plug-In/PCB Maxi ISO</td>
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</tr>
<tr>
<td></td>
<td>• Internal Diode or Resistor Option</td>
<td>• Package Options</td>
<td>• Suitable for Automotive Accessories</td>
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</tr>
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<td>• Socket Available</td>
<td>• Socket Available</td>
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<td>1A, 1C</td>
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<td>-40°C to 125°C</td>
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<td>• 30 Amp Plug-In w/Integral Fuse</td>
<td>• 45 Amp PCB</td>
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<td></td>
<td>• Package Options</td>
<td>• 30 Amp Fuse</td>
<td>• Miniature Design</td>
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<td></td>
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<td>• US &amp; European Footprints</td>
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<td>100K cycles</td>
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<td>-40°C to 125°C</td>
<td>-40°C to 105°C</td>
<td>-40°C to 125°C</td>
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</table>
### Series PCS4

**Features**
- DC Input/AC Output for 2A
- Built in Snubber
- UL Approval : E93379

**Dimensions (LxWxH mm)**
24.2 x 6.7 x 21.4

**Control Voltage**
- 5 VDC : 4–6 VDC
- 12 VDC : 9.6–14.4 VDC

**Load Voltage**
240 VAC

**Load Current**
2 Amp

**Switching Type**
Zero Crossing or Random Turn-On

**Terminal Layout**

![Terminal Layout Image]

### Series PCS15

**Features**
- 10–40 Amp Load Current
- Screw or Quick Connect Terminals
- UL Approval : E93379

**Dimensions (LxWxH mm)**
58.6 x 45.7 x 20.5

**Control Voltage**
- D : 3~32 VDC, no LED
- 4~32 VDC, with LED
  - 24A : 19.2–28.8 VAC
  - 110A : 85–132 VAC
  - 220A : 175–264 VAC

**Load Voltage**
- 240 VAC : 48–280 VAC
- 380 VAC : 48–440 VAC
- 380 VAC : 48–440 VAC

**Load Current**
- 10, 15, 20, 25 or 40 Amp
- 10, 15, 25, 40, 50 or 60 Amp

**Switching Type**
Zero Crossing or Random Turn-On

**Terminal Layout**

![Terminal Layout Image]

### Series PCS24

**Features**
- 10–60 Amp High Power, Three Phase
- SCR or Triac Output
- Phase Loss Protection Option

**Dimensions (LxWxH mm)**
105 x 75 x 30

**Control Voltage**
- D : 3–32VDC, no LED
- 4–32 VDC, with LED

**Load Voltage**
- 380 VAC : 48–440 VAC
- 480 VAC : 48 ~ 530 VAC

**Load Current**
- 10, 15, 20, 25 or 40 Amp
- 10, 15, 25, 40, 50 or 60 Amp

**Switching Type**
Zero Crossing or Random Turn-On

**Terminal Layout**

![Terminal Layout Image]

### Series PCS28

**Features**
- Dual, Independently Controlled
- Packaging Options
- UL Approval : E93379

**Dimensions (LxWxH mm)**
58.6 x 47.7 x 32.5

**Control Voltage**
- 12 VDC : 4–15 VDC
- 24 VDC : 15–32 VDC
- D : 3–32 VDC, without LED
- 4–32 VDC, with LED

**Load Voltage**
- 240 VAC : 48–280 VAC
- 380 VAC : 48–440 VAC
- 380 VAC : 48–440 VAC

**Load Current**
- 25, 40 or 50 Amp
- 7, 10, 12, 20, 40, 50, 80 or 100 Amp

**Switching Type**
Zero Crossing or Random Turn-On

**Terminal Layout**

![Terminal Layout Image]

### Series PCS33

**Features**
- MOSFET DC Voltage Output
- 7 to 100 Amp Output
- LED Indicator Option

**Dimensions (LxWxH mm)**
58.6 x 45.7 x 26.5

**Control Voltage**
- D : 3–32 VDC, without LED
- 4–32 VDC, with LED

**Load Voltage**
- 30VDC, 50VDC, 100VDC, 150VDC, 200VDC, 400VDC, 500VDC

**Load Current**
- 7, 10, 12, 20, 40, 50, 80 or 100 Amp
- n/a

**Switching Type**
Zero Crossing or Random Turn-On

**Terminal Layout**

![Terminal Layout Image]
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<th>PCS34 AC Input</th>
<th>PCS34 DC Input</th>
<th>PCS41</th>
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<tbody>
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</tr>
<tr>
<td>• Back to Back SCR Design Output</td>
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<td>A : 90–280 VAC</td>
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<tr>
<td>U : 23–280 VDC, 21–280 VAC</td>
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<tr>
<td>D : 3–32 VDC, without LED</td>
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<td>4–32 VDC, with LED</td>
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<td>U : 23–280 VDC, 21–280 VAC</td>
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</tr>
<tr>
<td>D : 3–32 VDC</td>
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<td>12 VDC : 4–15 VDC</td>
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<tr>
<td>24 VDC : 15–32 VDC</td>
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<tr>
<td>240 VAC : 48–280 VAC</td>
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<td>480 VAC : 48–530 VAC</td>
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<tr>
<td>600 VAC : 48–660 VAC**</td>
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<td>• Compact Package</td>
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<td>10, 15, 20 or 25 Amp</td>
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<tr>
<td>Zero Crossing or Random Turn-On</td>
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<tr>
<td>2X Ø3.00 [Ø0.12]</td>
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<tr>
<td>30.00 [1.18]</td>
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<tr>
<td>12.00 [0.47]</td>
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<table>
<thead>
<tr>
<th>PCS54 AC Input</th>
<th>PCS54 DC Input</th>
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</thead>
<tbody>
<tr>
<td>• High Power, DC Input</td>
<td></td>
</tr>
<tr>
<td>• Load Currents from 10–125 Amps</td>
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</tr>
<tr>
<td>• UL Approval : E93379</td>
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<tr>
<td>58.8 x 45.7 x 32.5</td>
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</tr>
<tr>
<td>D : 3–32 VDC, without LED</td>
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<tr>
<td>4–32 VDC, with LED</td>
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<tr>
<td>U : 23–280 VDC, 21–280 VAC</td>
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<tr>
<td>24 VDC : 15–32 VDC</td>
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</tbody>
</table>

Now the home of your premier source for solid state relays

Service
Quality
Design
Support
Complete Solutions
Heat Sinks

**PCH-M-120**
- **Dimensions (mm):** 64 x 110 x 118
- **Thermal Resistance:** 1.1°C/W
- **Matching SSR:**
  - PCS15: 20A, 25A
  - PCS33: 400VDC 10A, 150VDC 50A, 100VDC 20A, 50VDC 40A, 30VDC 100A

**PCH-H-150**
- **Dimensions (mm):** 55 x 142 x 150
- **Thermal Resistance:** 0.6°C/W
- **Matching SSR:**
  - PCS15: 40A
  - PCS33: 50VDC 80A, 100VDC 40A, 200VDC 40A
  - PCS34: 40A, 50A

**PCH-I-50**
- **Dimensions (mm):** 50 x 50 x 50
- **Thermal Resistance:** 2.4°C/W
- **Matching SSR:**
  - PCS15: 10A, 15A
  - PCS33: 30VDC 50A, 200VDC 10A

**PCH-IF-110**
- **Dimensions (mm):** 55 x 142 x 150
- **Thermal Resistance:** 0.6°C/W
- **Matching SSR:**
  - PCS28: 40A and above
  - PCS34: 60A and above

* Fan not included. Orion Fan OD8025-12HB is recommended
### Socket Ordering Information

<table>
<thead>
<tr>
<th>UL recognized sockets are shaded</th>
<th>Panel Mount Wire Assembly</th>
<th>PC Pin</th>
<th>DIN Rail Mountable</th>
<th>DIN Rail Mountable Finger Safe</th>
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<tbody>
<tr>
<td>A2</td>
<td>HD-1001</td>
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<td>A9</td>
<td>HD-1002</td>
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<td>HD-1004</td>
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<td>J114FL</td>
<td>P2R05P</td>
<td>P2F08S</td>
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<td>P2R08P</td>
<td>P2F08N</td>
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<td>L114FL</td>
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<tr>
<td>J151 2C</td>
<td>PT08</td>
<td>PTF08A</td>
<td>PTF08A-E</td>
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<td>SC113-3C</td>
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<td>SC118</td>
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<td>SC792-3C</td>
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<td>PC7150</td>
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</table>

### Socket Features
- Used with CIT series J114FL, J114AF, J151, A2 & A9 and Picker series PC113, PC118, PC740, PC780, PC782, PC784, PC792, PC795, PC796 & PC7150
- Snap-In, PC Pin and Screw Terminal Types
- Secure fit for relay
- Easy installation of relay onto PC Board
- Hold down clips also available

Specifications and availability subject to change without notice.
Warranty

Buyer accepts that Seller’s warranty prevails on orders confirmed by Seller. Seller warrants its products to be free from defects in materials and workmanship at the time of shipment under normal use and service in accordance with Seller’s specifications or drawings for a period of one (1) year after date of shipment by Seller. Seller’s obligations with respect to warranty claims are limited to only repair, replacement or refund of the purchase price actually paid for the product, after return of the product. This warranty does not extend to any product sold by Seller that has been subjected to misuse, neglect, accident, improper installation, a use in violation of instructions furnished by Seller, or that has been soldered or altered during assembly and is not capable of being tested by Seller. The foregoing warranty supersedes and replaces any and all warranties, whether oral, written, express, implied or statutory. Implied warranties of fitness for a particular purpose and merchantability are specifically excluded and shall not apply. Buyer agrees that Seller is not liable for any special, incidental or consequential damages including, but not limited to, damages resulting from loss of profit or revenue, recall costs, claims for service interruptions or failure to supply, downtime, testing, installation or removal costs, costs of substitute products, property damage, personal injury, death or legal expenses. Seller’s products are not designed, manufactured or intended for critical use in end products, which include, but are not limited to, nuclear facilities applications, human medical, including implantable devices, or life support or critical care systems. Seller is not liable, in whole or in part, for any claims or damages arising from such use. It is up to the end user to test and determine the suitability for end product.

About Us

CIT Relay & Switch places the customer first, working directly with customers from simple to complicated projects, tailoring custom solutions and designs. When you contact CIT, you are immediately connected to a professional. Our technical and customer support personnel are well trained, and can help with your design requirements. With our test lab we can address any custom or standard test requirements that you may need. From small to large projects, we are here to help with your testing needs. Join the many customers who have come to rely on the good folks at CIT.

Mission

CIT Relay & Switch is committed to you.

Wherever opportunities arise, CIT Relay & Switch works to give its customers the best product for the application and most compelling support experience. Continued growth through paramount service, selection, quality, and value – we strive to be the best.
Our extensive line of relays and switches does not end with what you see in our catalog. Every day we work with customers to create custom relay and switch solutions for their design needs.

Your product deserves the personalized attention that CIT Relay & Switch offers.

CIT Relay & Switch
custom product

contact us at sales@citrelay.com