

Harsh Environments *relays & switches*

In harsh environments, like those with high vibration, temperature extremes, moisture, dust, or corrosive chemicals, electromechanical relays, switches and solid-state relays are still widely used. Our products' designs, materials, and applications are tailored to withstand those conditions. CIT's state-of-the-art Test Lab makes this possible. Contact your CIT representative for more information about how we can help you to determine the best parts for your specific application.

electromechanical relays

PC775



- 75 amp at 14VDC • Screw terminal
- Max Switching Current 150 amps • H Class insulation • Efficient heat dissipation • 12VDC or 24VDC • Resistor, Diode or Double Diode • 2.9W Coil power

A1 & A1M



- 30 amp or 20 amp • PC Pin or Quick Connect • 1A, 1B, or 1C Contact Arrangement • 1.2W or 1.5W Coil Power • A1 Dimensions: 22.8 x 15.3 x 25.8mm • A1M Dimensions: 20.2 x 15.2 x 22.0mm

A2H



- 50 amp • PC Pin or Quick Connect • 1A or 1C Contact Arrangement • 12VDC or 24VDC Coil Voltage • 1.6W Coil Power • Low Temperature Rise • Two Flange Options • Dimensions: 26.0 x 26.0 x 22.7mm

A6



- 30 amp • Small size and light weight • 1A or 1C Contact Arrangement • 12VDC or 24VDC Coil Voltage • 0.9W or 1.3W Coil Power • PC Pin Mounting • Dimensions: 22.5 x 15.0 x 25.2mm

Common Uses

- Power Distribution Systems
- Industrial Machinery and Heavy Equipment
- Trains and Railway Equipment
- Trucks, Lift Equipment

PC776



- 130 amp at 14VDC • Screw Clamp
- 300 amp Max Switching Current • Form 1X Bifurcated Contacts • 12VDC or 24VDC • IP54 Dust Cover or IP67 Sealed • Snubber • Resistor or Diode • 3.9W or 4.1W Coil Power • 220 grams • F Class insulation.

A2



- 40 amp • Two Mounting Flange options • Shrouded • 6~48VDC Coil Voltage • 1.6W or 1.9W Coil Power • 1A, 1B, or 1C Contact Ratings • Dimensions: 26.0 x 26.0 x 24.5mm

A2K& A3K



- 60 amp or 80 amp • Internal Blowout Magnet • 110VDC or 145VDC Switching Capacity • PCB Pin or Quick Connect Mounting • Metal Mounting Bracket Option • Diode or Resistor • A2K Dimensions: 26.5 x 32.0 x 33.5mm • A3K Dimensions: 26.5 x 32.0 x 35.5mm

A17



- 30 amp • Light weight and small size • 1A Contact • 12VDC or 24VDC Coil Voltage • .96W Coil Power • PC Pin • Dimensions: 16.5 x 15.5 x 24.3mm

Adaptations for Harsh Environments

- Process Sealed, IP67 to IP68
- Heavy-Duty Contact Material
- Shock and Vibration Resistance
- Extended Temperature Ratings

solid-state relays

PCS33



- 10 amp to 80 amp Load Current
- 4 to 32VDC Control Voltage Range
- MOSFET Output
- 50VDC to 400VDC Load Voltage
- Hockey Puck Package Style
- LED Indicator
- 2500VAC Dielectric Strength

Additional SSR Option: PCS15

Common Uses

- HVAC Systems
- Industrial Heaters and Ovens
- Pumps and Motors in remote or hazardous areas

electromechanical switches

Anti Vandal Switches



- up to 30 Amp
- 10mm up to 40mm
- IP68
- UL Approved Options
- Ring or Dot Illumination
- Bi-Color LED Illumination
- Stainless Steel
- Convex Actuator Option
- Wire Harness Option
- Flat or Raised Actuator
- Customizable

Sealed Tact Switches



- Right Angle, Surface Mount or Through-Hole
- IP67
- UL Approved Options
- Ring or Dot Illumination
- Bi-Color LED Illumination
- Stainless Steel
- Convex Actuator Option
- Wire Harness Option
- Flat or Raised Actuator
- Customizable

Common Uses

- Control Panels
- Marine and Outdoor Control Equipment
- Industrial Automation

PCS34 AC/DC



- AC or DC Input Option
- 90 to 280VAC or 4 to 32VDC
- 25 to 125 amp Load Current
- Screw Terminal or Quick Connect
- Hockey Puck Package
- LED Indicator
- Optical Isolation between Input and Output
- SCR Design Output

Adaptations for Harsh Environments

- No moving parts: Immune to vibration, shock and mechanical wear
- Silent Operation and Faster Switching
- Completely Sealed Housing for dust and moisture resistance

ME Series



- Through-Hole or Surface Mount
- 350gF Actuation
- IP67
- 6mm up to 15mm Actuator Height
- Silicon Rubber Internal Seal
- One Piece Construction

Rocker Switches



- SPDT or DPDT
- Multiple Latching Options
- IP67 Boot Option
- Neon or Tungsten Lamp Illumination Available
- Quick Connect / Solder Lug
- Multiple Size Options
- Multiple Actuator Color Options
- Actuator Marking Options

Adaptations for Harsh Environments

- Process Sealed, IP67 to IP68
- Gold or Silver Plated Contact Material for corrosion resistance
- Rugged Actuators that resist debris and impact

CIT Relay & Switch validation test lab

CIT Relay & Switch offers advanced technical expertise through its state-of-the-art test and technology lab, providing failure analysis, material testing, and extensive validation services to ensure reliable component performance. With a focus on engineering design, IQC, and relay life testing backed by Weibull curve documentation, CIT supports customers with accurate analysis, bonded inventory, and certifications including UL, cUL, and TUV. Our lab tests for key parameters such as contact material integrity and electrical performance, while warehousing in Minnesota and Hong Kong ensures efficient delivery. CIT's technical team is always available to assist with complex application challenges, offering support on materials, design, and performance optimization.

CIT[®]
Relay & Switch

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CIT Relay & Switch delivers a comprehensive selection of ROHS-compliant electromechanical relays, switches and solid-state relays, designed to meet the demands of a wide variety of industries — from automotive and telecom to industrial automation building systems, and beyond. We appreciate the opportunity to earn your business and demonstrate why companies across diverse sectors trust CIT for dependable performance, responsive service and consistent quality.

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