

DIN Rail Assemblies

*Unlock the Potential of
Your Industrial Infrastructure
with c3controls DIN Rail Assemblies*



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About c3controls

Since 1976 c3controls (c3controls.com) has provided OEMs and electrical equipment builders a comprehensive portfolio of industrial control products that meet the most demanding applications. By maintaining strict control over the development and manufacturing of all products, c3 can provide customers extraordinary value through unmatched quality, competitive pricing, same-day shipping and a lifetime product warranty. This vertically integrated approach coupled with a direct sales model brings c3 closer to the end-user, fostering a degree of innovation that leads the industry.



A One-Stop Shop for all your assembly needs!

Provide us with your comprehensive specifications and drawings, and our team of highly skilled professionals will assemble the product for you, reducing the need for you to keep inventory of every item and accessory.



Custom DIN Rail Assemblies

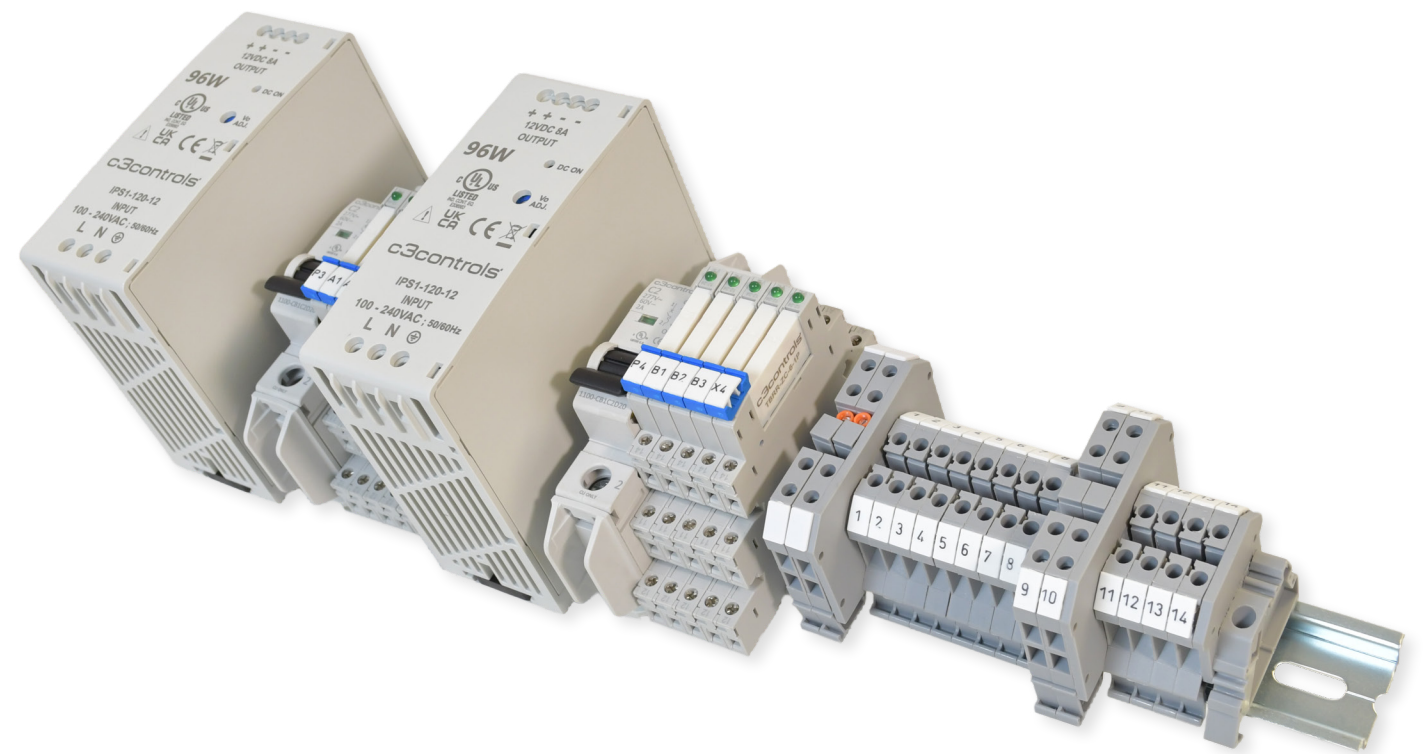
DIN Rail Assemblies are standardized arrangements of electrical components that are pre-mounted and labeled to allow for the easy installation in control panels, distribution boards, and enclosures saving valuable time. With a modular design and standardized dimensions, DIN Rail Assemblies offer flexibility, efficiency, and reliability in organizing your electrical infrastructure.

While custom assemblies may have higher upfront costs compared to off-the-shelf solutions, they can offer long-term cost savings through improved efficiency, reduced maintenance, and optimized performance.

Custom DIN Rail Assemblies

- Solution specifically designed to satisfy your circuit requirements.
- Customized cut to length 35mm slotted DIN rails available in aluminum and plated steel material.
- Fewer items to procure and maintain in stock.
- Ready assemblies save precious time during component mounting and wiring of panels.
- Single part number for the complete assembly.
- Send your specifications and drawings, and we will create and ship the complete assembly to you.
- Accessories like End Plates, End Barriers, Partition Plates, Separator Plates, Marker Strips, Group Markers, and Circuit Bridges are added as per customers' requirement.
- Ready-to-wire Terminal Block assemblies as per IEC or NEMA standards.
- Custom assemblies offer flexibility to accommodate changes in requirements or applications.
- Pre-assembled Motor Protection Circuit Breaker (MPCB) and Contactor for your motor starter control applications.

- Ready-to-wire AC and DC Miniature Circuit Breaker (MCB) assemblies (1, 2 & 3 Pole) per your distribution requirements with operating current range from 0.5 to 63 Amps.
- For the transmission and distribution segments, high density terminal blocks in 4, 6 & 12 pole configurations can be coupled with other products to help you confidently tackle the difficulty of wiring in confined spaces.
- UL certified and CE marked products give you the assurance of a robust, high-quality product that you can rely on.
- Unpack and ready to install.

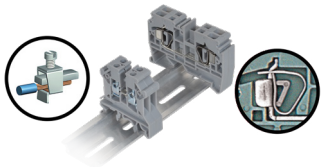


Control Panels

Control panels come in all shapes and sizes and are employed in many different applications. The electrical components that make up these panels are crucial to their proper operation, offering practical and well-structured methods for power and signal distribution as well as control. In an electrical control panel, Terminal Blocks, Circuit Breakers, Contactors, Relays, Timers, and Power Supplies are generally utilized as follows:

Wire Termination:

Terminal blocks provide a secure and reliable way to terminate wires or cables coming from various sources such as incoming power lines, outgoing circuits, sensors, actuators, control devices, and communication interfaces. Wires are typically inserted into terminal blocks and secured in place using screws, clamps, or other fastening mechanisms.

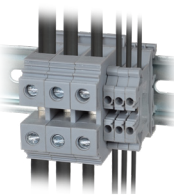
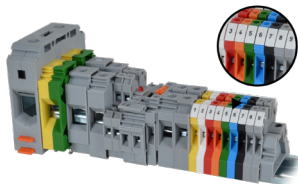


Isolation and Protection:

Terminal blocks often include features such as insulation barriers or covers to prevent accidental contact with live electrical parts, reducing the risk of electrical shocks and short circuits.

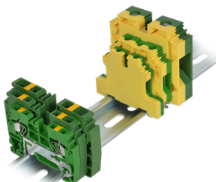
Labeling:

Terminal blocks have provisions for labeling or marking each terminal, making it easier to identify and trace specific connections within the switchboard. This labeling helps technicians during installation, troubleshooting, and maintenance tasks.



Support Different Wire Sizes:

Terminal blocks come in various sizes to accommodate different wire gauges and types. They may include adjustable or interchangeable terminals to support a wide range of wire sizes and connection requirements.



Grounding:

Terminal blocks may include dedicated terminals for grounding connections, ensuring proper electrical safety and compliance with regulations and standards.

Motor Protection Circuit Breaker (MPCB):

A specialized type of circuit breaker designed to protect electric motors from electrical faults such as overloads, short circuits, phase imbalance, and phase loss.



Contactor:

An electromechanical device used to control the flow of electrical power in a circuit. Commonly employed in industrial and commercial applications to switch electrical loads on and off, typically for motors, lighting, heating elements, and other high-power devices.

Miniature Circuit Breaker (MCB):

An electrical device designed to protect electrical circuits from overloads and short circuits. Commonly used in residential, commercial, and industrial applications to safeguard electrical wiring, equipment, and appliances.



Relay:

An electromechanical device used to control the switching of electrical circuits. They act as electrically operated switches, allowing low-power control signals to control the operation of high-power circuits or devices.

Industrial Power Supply:

A power supply is a device that converts alternating current (AC) from a mains power source into a stable, regulated direct current (DC) output voltage of 12/24/48 volts. Used to power PLCs, sensors, transmitters, analyzers, meters, HMI, and Ethernet switches.



Product Portfolio

Our 17 million+ product configurations deliver durability and reliability—even in the most punishing environments—meeting and exceeding global standards for quality and safety.



DISCONNECT SWITCHES
NON-FUSED & ENCLOSED



MINIATURE CIRCUIT BREAKERS



CONTACTORS & CONTROL RELAYS



OVERLOAD RELAYS



DIRECT-ON-LINE STARTERS
CONTACTOR + OVERLOAD RELAY



ENCLOSED DIRECT-ON-LINE STARTERS
CONTACTOR + OVERLOAD RELAY



MOTOR PROTECTION CIRCUIT BREAKERS



ENCLOSED MOTOR PROTECTION CIRCUIT BREAKERS



DIRECT-ON-LINE STARTERS
MOTOR PROTECTION CIRCUIT BREAKER + CONTACTOR



ENCLOSED DIRECT-ON-LINE STARTERS
MOTOR PROTECTION CIRCUIT BREAKER + CONTACTOR



30MM INDUSTRIAL PILOT DEVICES



30MM PILOT DEVICES FOR HAZARDOUS LOCATION



22MM IEC PILOT DEVICES



WORLD TOWER LIGHTS



CAM SWITCHES



22MM NEMA PILOT DEVICES



16MM PILOT LIGHTS



13MM PILOT LIGHTS



CONTROL STATION ENCLOSURES



ENCLOSED UL508A COMBINATION MOTOR STARTERS



INDUSTRIAL POWER SUPPLIES



CONTROL CIRCUIT TRANSFORMERS



ENCLOSED POWER SUPPLIES



TERMINAL BLOCKS



TERMINAL BLOCK RELAYS



ELECTRONIC TIMING RELAYS




GENERAL PURPOSE RELAYS



WIRING DUCT

White Papers

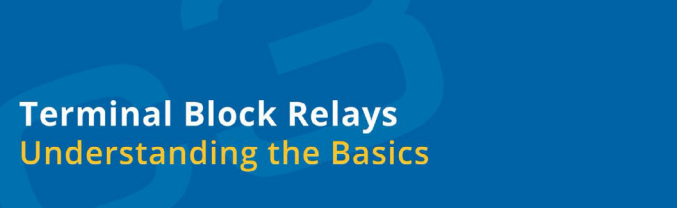
Product professionals AND subject experts!
Check out c3controls' extensive library of white papers:



Circuit Breaker or Fuse?
What's the difference?

Do you know which type of circuit protection is better? Click here to understand the differences and when to choose a circuit breaker over a fuse.


READ WHITEPAPER



Terminal Block Relays
Understanding the Basics

Terminal Block Relays are defined as a control and automation relay that has the form and fit of a terminal block and DIN Rail mounted to save panel space.

READ WHITEPAPER




AC versus DC MCBs
The Difference is More Than a Letter!

AC vs DC MCBs: The Difference is More Than a Letter

Discover the critical distinctions between AC and DC Miniature Circuit Breakers (MCBs) in our in-depth whitepaper. Explore their workings, applications, and crucial considerations for optimal electrical safety and system integrity. Learn how to choose the right MCB for your specific needs.

READ WHITEPAPER



A Quick Guide:
UL 489 or UL 1077 in
Control Panels and Equipment

UL 489 or UL 1077 in Control Panels and Equipment - A Quick Guide

How do I know when to use UL 1077 or UL 489 breakers? The answer is seemingly simple, but like most simple questions, there is usually some confusion.

READ WHITEPAPER

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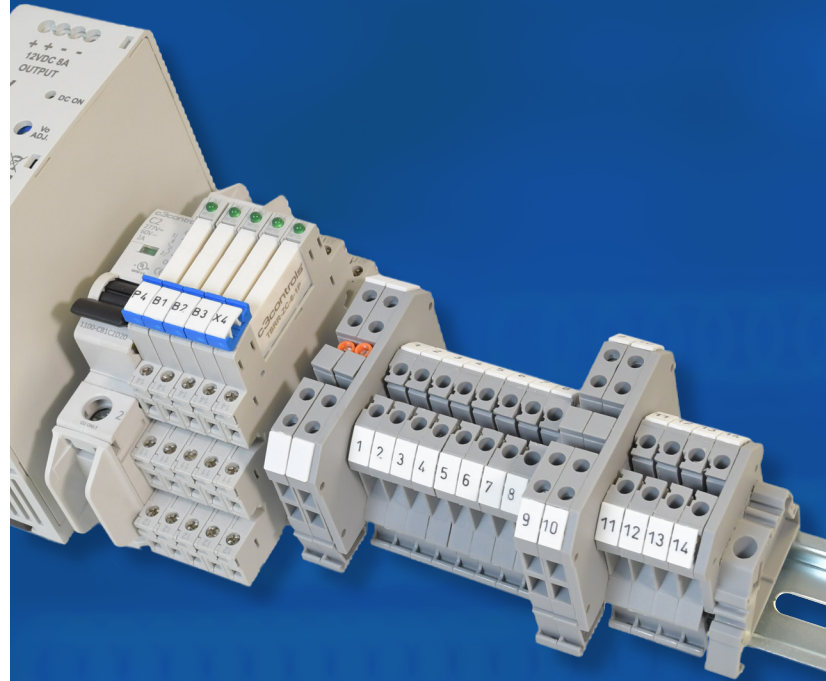
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