# Altech Corp.®

Serving the Automation & Control Industry Since 1984



## **PRODUCT PREVIEW**







#### **CIRCUIT PROTECTION**



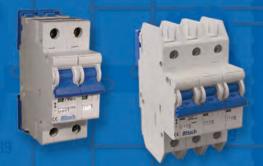


- UL 489, UL 508 and UL 1077 available
- Two lines of AC or DC UL489 Miniature Molded Case Circuit Breakers
- UL508 Manual Motor Controllers "Suitable as Motor Disconnect"
- Three Phase Adjustable Trip Miniature Circuit Breakers/ Manual Motor Controllers
- Two lines of UL1077 Recognized Supplementary Protectors
- UL489 Listed Molded Case Circuit Breakers, up to 1200A
- Flange and Rotary Handles available

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## An industry leader in **UL Circuit Protection.**

#### **Busbars**

- UL1077/ UL508 Busbars is rated up to 200A
- Can be used with most competitor's supplementary protectors and manual motor controllers
- UL489 Busbars with ratings of up to 115A
- Modular UL489 Busbar available
- UL listed for use with most of Altech's competitor's UL489 Miniature Circuit Breakers
- Power Distribution System is a new way to simplify existing wiring methods inside a panel.
- Input connector Blocks up to 800A







#### **UL 489**

**Branch Circuit** Breaker with **Ground Fault Relay** 

III 489 1st in the industry

- 1+N and 2+N poles
- 240V AC and 120/240V AC
- 10, 30, 100, and 300 mA **Residual Current Sensitivity**
- Rated Current 5 40A
- Rated Short Circuit **Interrupt Capacity 10kA**
- Rated Frequency 50/60Hz
- Overload tripping B, C and D









**Ground Fault** Sensing and







Relaying Device

#### UL 1053

**Ground Fault** Relay with **Overload Protection** 

- 2 and 4 poles
- 277V AC and 480Y/277V AC
- 10, 30, 100, 300 and 500 mA **Residual Current Sensitivity**
- Rated Current 25, 40 and 63A
- Rated Short Circuit Withstand Capacity 10kA
- Rated Frequency 50/60Hz

- 2 and 4 poles
- 277V AC and 480Y/277V AC
- 10, 30, 100, 300 and 500 mA **Residual Current Sensitivity**
- Rated Current 5 40A
- Rated Short Circuit Withstand Capacity 10kA
- Rated Frequency 50/60Hz
- Overload tripping B, C and D

#### **CIRCUIT PROTECTION**

#### **MOTOR DISCONNECT SWITCHES**

- UL508 Listed Manual Motor Controllers for AC Motor Across-the-line, AC General Use.
- Electrical ratings up to 150A/600V
- 30A / 600V AC Fused Disconnect
- Suitable for Motor Disconnect Means
- 60A disconnect is smallest in industry
- Horsepower rated to 75hp
- Extended and direct handles, toggle switches DIN Rail and panel mount
- Enclosed plastic and stainless steel motor disconnect switches



#### Many Types of Enclosed Motor Disconnect Switches



#### **Polycarbonate**

These enclosed switches can be used locally at the motor. They are IP65 rated and ULType 4X, resistant against many chemicals and UV.



#### **Sheet Metal**

These UL Type 4X tested enclosures offer good corrosion and UV resistance. They are also resistant against many chemicals. The handle is lockable and defeatable. The enclosure is also rated to IP65.



#### **Stainless Steel**

These ULType 4X tested enclosures are ideal where chemicals are used for cleaning and maintenance such as food processing plants and breweries. Mining is another application area. Their stainless steel (Grade AISI 316) construction is extremely resistant to corrosion, and the enclosure is also rated to IP66.



#### **Aluminum**

ULType 4X tested
Excellent in harsh weather conditions
UV resistant
Resistant to many chemicals
IP66 Protection Level
Lockable and Defeatable Handle







#### **Stainless Steel**

UL Type 4X Stainless Steel (AISI 316) Safety Switch enclosures are ideal for hygienic and harsh environments such the food and pharmaceutical industries. They are easy to install and clean, acid proof and pad lockable. They range from 16 - 125 Amps. One version has an angled rain hood design.



NEW



# MOTOR CONTACTORS, NEW OVERLOAD RELAYS & MANUAL MOTOR STARTERS



- Three Phase (200 575V) AC and DC
- 3 and 4 pole configurations at 10A to 1200A.
- A large variety of coil voltages are supported
- Accessories include auxiliary contacts and overload relays
- Mini contactors come in screw clamp, fast-on, and solder pin types



#### **CIRCUIT PROTECTION**

## **1 & 3 PHASE POWER** DISTRIBUTION **BLOCKS**





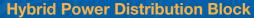
Now **Aluminum Models** 





- IP20 Finger Safe
- 600V AC/DC
- Current Ratings available, 90A to 255A
- Outputs available, 6 18
- DIN Rail or Panel Mount
- Blocks fit with other DIN Rail mountable modular devices
- Accessories increase the number of outputs with only one input (for specific models)
- No caps to open or remove
- Housing: Polyamide
- Metal Body: Aluminum (tin plated) or Brass





- Compact 16 mm width
- Saves Panel Space, Installation Time and Cost
- 1 Screw Clamp Input: 600V / 115A; 14-2 AWG wire size
- 4Spring Clamp Outputs: 600V / 41A; 24-8 AWG wire size
- Amount of outputs are EXPANDABLE

## Fuses and Fuse Holders for Industrial & Photovoltaic Applications

- - Extensive line of in-stock European Fuses minimizes downtime
  - Diazed, Neozed, Cylinder, NH Knife Blade and Semiconductor fuses
  - Slow Blow, Fast Blow and Superfast Blow operating classes
- Fuse Holders
- Crossable with many brands
- IEC and VDE electrical ratings
- Complete line of accessories









- Rated voltage: 600V AC/DC
- · 200 kA SCR rating



- Rated voltage: 600V AC/DC
- Rated current: up to 100A
- 1, 1N, 2, 3, 3N pole versions
- 200 kA SCR rating
- Optional blown fuse indication







- Rated voltage: 600V AC/DC
- Rated current: 30A

CC & J

- 1, 1N, 2, 3, 3N pole versions
- 200 kA SCR rating





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#### DIN RAIL TERMINAL BLOCKS













- Most Competitive in the Industry
- International Approvals UL, CSA, IEC, Lloyd, ATEX, IECEX, VDE, AEx
- Wide Range of Terminals and accessories
- Wire size up to 250kcmil
- Up to 240A
- Solutions for many special applications
- Power Distribution
- Disconnect & Test Terminals
- Temperature Measurement
- Space Saving Solutions
- Fuse Terminals
- High Current
- High Voltage
- Solar
- Electronic Components (Diodes, Resistors, etc)
- Sensors
- Grounding



















**Ground Block** 



Triple Level CTL2.5

Push-in

**Jumpers** 



#### **CX Series Spring Clamp Terminal Blocks**

- Very Compact profile to save panel space (CX4 most compact in industry)
- Center marking Area
- Push-In Jumper System for fast installation
- Maintenance free spring clamp design
- Suitable for Vibration applications
- · Wide range of terminal block types and accessories

















#### **Panel Mount / Mini Terminal Blocks**

- Screw clamp series (CMB4)
- Spring clamp series (CSCP2.5)
- 15mm Rail version available (CMT4)
- Extremely compact
- Series feature high density to save panel space
- Cost effective
- · Various color and accessories







#### Ring Tongue / Stud Terminal Blocks

- Bolt version
- Captive nut version
- Power Blocks up to 230A
- · Secure and safe connection for severe vibration applications



#### PRINTED CIRCUIT BOARD TERMINAL BLOCKS

#### **Screw Clamp PCB Terminal Blocks**







#### **Fixed PCB Terminals**

- Metric (mm) and US (inch) pin spacing (3.50mm to 12.7mm)
- Single, Double and Triple Level versions
- Various clamp styles
- Vertical, horizontal types
- Modular configuration for faster availability
- 2 and 3 to create multi-pole PCB assemblies
- Angled versions (35° and 45° wire entry)
- Various colors available
- Custom imprints



- Metric (mm) and US (inch) pin spacing (3.50mm to 10.00mm)
- Horizontal/ vertical Plugs and headers
- Screw flange versions
- Double Level Headers
- Phoenix Contact compatible
- Custom Imprints

#### **Spring Clamp PCB Terminal Blocks**













#### **Push-In Technology**

- 2.50mm, 3.50mm with 45° wire entry
- 2.54mm, 3.81mm vertical and horizontal versions
- 5.00mm spacing with push-lever operation
- 5.08mm single mold terminal
- Maintenance free push-in technology
- Modular
- Various colors





#### **Power Terminals Push-In**

- 5.00mm, 7.50mm, 11.50mm pin spacing
- Horizontal and vertical versions
- Up to 600V voltage rating
- Up to 35A current rating
- Modular
- Various colors



VERTICAL





#### **Tension Spring Technology**

- 5.00mm, 7.50mm, 10.00mm pin spacing • Various styles of push-lever actuators
- 45° wire entrée
- 5.00mm/ 5.08mm multi level terminal
- Maintenance free tension spring technology
- Modular
- Various colors



#### 3.50mm/ 3.81mm version

- 5.00mm/ 5.08mm version
- Horizontal vertical plug
- Screw flange version
- · Fits industry standard horizontal and vertical headers

Pluggable Push-In Terminals

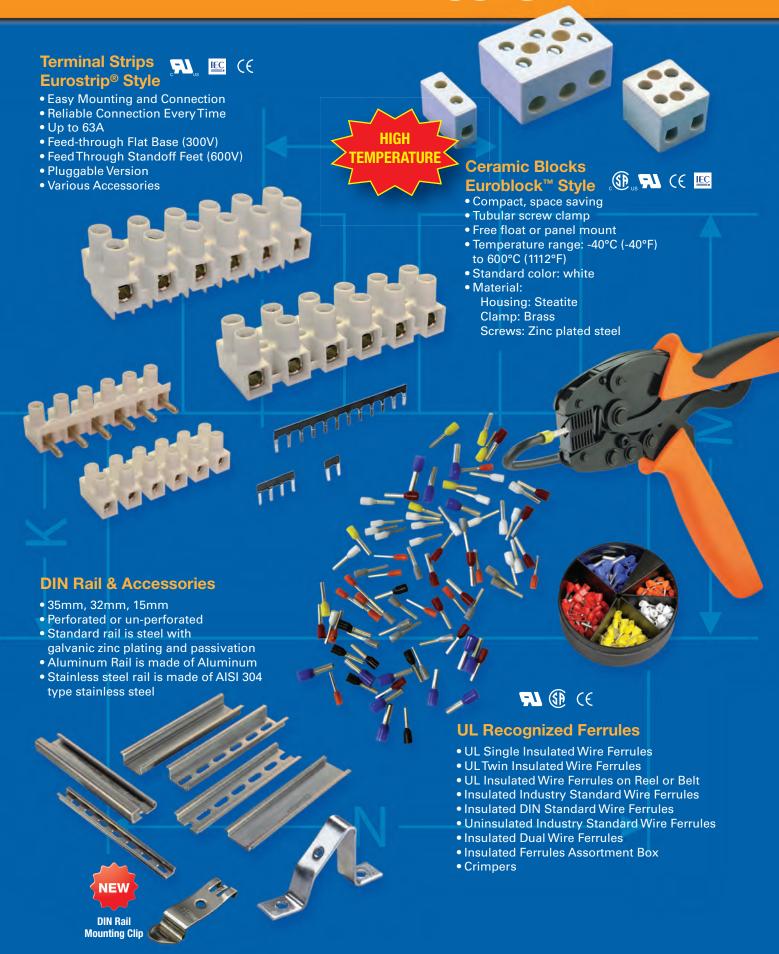


SCREW FLANGE



NEW

#### **TERMINAL BLOCKS**



#### **ACCESSORIES AND ASSEMBLIES**

#### Test & Measurement Equipment

- Size range of 0.64 mm to 4 mm
- Clamp-type test probes
- Alligator clips
- Test probes
- Oscilloscope
- Measuring leads
- Plugs
- Sockets
- Sets



1123 4 5 6 7 8 9 W

#### **Marking Systems**

- Compatible for terminal block markers and wire markers such as Altech Corp, Allen Bradley, Connectwell, Conta Clip, Entrelec, Weidmueller, Phoenix Contact, PTR, Wieland, Wago, Murrplastik, Partex, SES, Sterling, etc.
- Engravers for plastic signs, legend plates, inlays, etc.
- Plotter pens (0.18 1.00 mm)
- Ink for plastic material and general use
- Pen cleaners, Fixtures, Software
- Service and repair available from Altech



#### **Custom Assemblies**

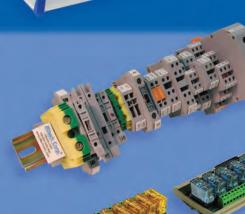
Application Assistance

Modify a standard product

Help define a new product

Engineering Capability
Use of latest CAD system
PCB layouts completed promptly
Prototypes available two weeks after
PCB layout approval







#### Minimum Quantities

25 piece minimum for custom quotes Quotation provided at no cost

#### **Altech Benefits**

Fast turnaround due to in-house capability
Highly competitive in-house manufacturing
Use of Altech components (blocks, extrusions, connectors)

#### **ENCLOSURES**



- Look great, and protect circuit boards,
   terminal blocks and control and operating devices
- Aluminum, ABS, Polystyrene, Polycarbonate, Polyester and stainless steel enclosures
- Broad range of sizes
- TG Series has inlay for custom labels
- 3 printing options: digital printing, screen printing or adhesive label
- NEMA 4X available
- Functional and appealing designs
- Large selection of accessories
- Customization and imprinting service are available





- Full line of Liquid Tight Strain Reliefs (Cord Grips)
- Standard and Industrial Series
- Available in polyamide, nickel-plated brass and stainless steel
- Straight-through, strain relief, bend protection, pull/bend protection, flat cable, multi-conductor and EMI/RFI functions
- Compatible with almost any type of cable, cord or conductor
- Available in PG, Metric and NPT thread sizes



#### **Corrugated Tubes**

- Material: Polyamide 6
- Flame retardant according to DIN 75200 and UL
- No halogen
- Durable
- Temperature Range: -40 to 120°C, short term 150°C
- Connectors, Seal Rings, O-Rings, Mounting Clips
- Various Sizes Available



- Protect electrical, electronic and electromechanical devices with any of seven DIN Enclosure series
- Up to 144 ready-to-wire terminals, integral PC Board guides and terminal-to- board connector options
- Fixed and pluggable terminal options
- DIN Rail or optional panel mount
- In-Rail Bus System
- Custom imprints, markings and cut outs available

#### **Suspension Systems**

- Modular Design
- Aluminum and Steel Constructions
- Light Duty (up to 99 lbs.)
- Medium Duty (up to 275 lbs.)Heavy Duty (up to 330 lbs)
- Special Stainless
   Steel Tubing







#### **SWITCHES**



## 22 & 30 mm Push Buttons & Selector Switches

- Metallic Push Buttons, Selector Switches and LED Pilot Lights
- Designs include Operators, Pilot Lights, Modular Contact Blocks and Bulb Holders
- Push Button Stations
- Wide range of accessories
- 22mm Series is 100% compatible with Telemecanique XB-2 and ZB-2 series







#### **Foot Switches**

- Internationally approved for almost any industrial or medical application.
- Up to three pedals, with or without guards
- IEC 60601-1 certified and UL2601-1 recognized for all medical applications
- VDE, DIN and CE approvals
- Momentary, maintained and two-stage momentary
- Customized designs available
- Low cost single pedal switch available!



#### **Motor Disconnect Switches**

- UL508 Listed Manual Motor Controllers for AC Motor Across-the-line, AC General Use.
- Electrical ratings up to 150A/600V
- Suitable for Motor Disconnect Means
- 80A disconnect is smallest in industry
- Horsepower rated to 75hp
- Extended and direct handles, toggle switches
- DIN Rail and panel mount
- Enclosed plastic and stainless steel motor disconnect switches





- Safety Interlock Switches
- Solenoid Interlock Switches
- Cable Rope Pull Switches
- Hinged Door Switches
- Standard & Safety Foot Switches
- Medical Foot Switches
- RFID Non Contact Safety Switches
- Safety Relay & Control Modules

ATEX

**APPROVALS** 

**AVAILABLE** 

- Standard Limit Switches
- Safety Limit Switches
- Magnetic Switches
- Optical SwitchesFloat Switches

#### ATEX

- Limit Switches
- Rope-Pull Switches
- Foot Switches





#### **POWER MANAGEMENT**















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#### **DIN Rail Power Supplies**

- DIN RAIL mountable power supplies have Universal AC input
- Suitable for industrial and automation applications
- UL508 Listed and/or UL Recognized
- Available from 10-960W
- Slim line and compact models available
- Protections: Short circuit / Overload / Overvoltage / Over temperature
- Cooling by free air convection
- 3 year warranty



#### **RELAYS & TIMERS**



### c(UL)us (E

#### **Smart Relays**



- DST Feature Available
- Backlit LCD Screen for display & modification of pre-selected parameters of functional blocks, viewing I/O status and programming on the device

(UL)us (E

- PC software for programming, online & offline simulation, documentation & printing
- Designed for use in automation for commercial & Industrial sectors
- Modbus Communication

#### **Solid State Relays**

- Single, Two and Three Phases
- Solid State Relays for Motor Control
- 1ms on and off times
- 100kA UL SCCR approved
- Produce less electrical interference
- Construction designed to increase lifetime
- Runs silently
- Vibration proof
- IP20 Touch Protection
- Phase Angle Controllers
- DC Solid State Relays
- Heatsinks
- Accessories
- Special Relays / Special Customer Products



#### **Safety Relays**

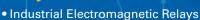
- Feature forced-guided contacts
- Broadest line of Safety Relays that meet the ASME requirements
- Relays meet 2006/42/EC requirements
- IEC / EN 60204, IEC/EN 62061 and DIN/VDE 0113
- Available from 2-8 contacts, 6-10A, 5-220V DC coils
- Applications include emergency stop, two-hand safety, railroad signaling and elevator/escalators.





- Universal Voltage 24~265 V AC/ DC
- Wide Time Range: 0.1s ~ 999h
- 3 Digit LCD Display for PresetTime and RunTime
- DIN Rail Mounted
- 17.5mm Width
- 8A Relay Output

#### Industrial Relays



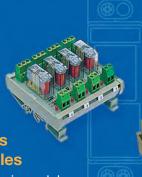
- Miniature Electromagnetic Relays
- Slimline Interface Relays
- Sub-miniature Electromagnetic and Solid State Modules
- Relays for Photovoltaic
- Relay Socket Combination
- Accessories

#### Slim Line Relays





- Only 6.2mm thick
- Slim DIN Rail mountable interface solution
- Modules have a plug in construction
- Modules available with solid state or mechanical relay
- Built in LED indicates the relay energizing state
- The relay features a SPDT configuration and a maximum switching current of 6A
- Coil voltages from 5VAC/DC up to 230V AC/DC
- Pluggable jumpers available



#### Relays **Modules**

- Electronic modules and carriers.
- DIN mountable module
- Connector to terminal blocks
- Relay Modules & Safety Relay Modules
- Diode Modules
- Component Carrier Modules
- I/O opto Carriers
- Custom Designed Modules for any size order
- Quick Delivery







#### **SENSORS**



#### PANEL ACCESSORIES





#### **Digital Panel Meters**

- Multi Function Meters
- Ampere Meters
- Voltage Meters
- Frequency Meter
- Power Factor Meter
- Disconnect and Test Terminal Block







#### **Mechanical Thermostats**

- Wide Adjustment Range
- (Red: Heating, Blue: Cooling)
- DIN Rail Mountable





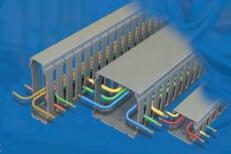
#### Adjustable Temperature Control

- Color Coded Dial



#### **Tower Lights**

- Sleek & Stackable Design
- SMD LEDTechnology
- Uniform & Bright Illumination
- Continuous, Flashing and Rotary Integrated LED Light Modules Available
- Flexibility to upgrade from Single LED Unit to multiple LED Units
- IP65 protection | Wide voltage range from 24V AC/DC to 240V AC
- Optional feature of Buzzer with dual sound mode continuous & intermittent with 80 DB output



#### **Wire Duct**

- Exceptional wire protection
- Non-slip interlocking covers
- High impact, rigid PVC construction
- Unslotted, standard slotted or thin slotted models
- Sizes range from 1x1.5 in. to 5x3 in.
- Noryl material also available
- Grey, white, blue and black available
- Covers shipped complete with wire duct



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#### **Panel Filters**

- Most Quickly and Easily no mounting hardware required
- Low external Profile
- UV & Heat resisting Housing material
- Black or Grey Housing Color
- Filtering Class: G3 according to EN779
- Filtration Efficiency: 85% (DIN24185)
- Filter Mat included







#### **Pin & Sleeve Devices** / Receptacles

- Large selection
- IEC 60309 certified power plugs and connectors.
- Electrical rating up to 30A/600V AC
- IEC styles upto 125A/690V AC
- Designs include plugs, receptacles, inlets and connectors
- Splash proof and watertight versions
- Exceptional anti-tracking properties
- Designed for industrial use

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PRODUCT MENU

**ATEX Products** 

Circuit Protection / Control

Connectors

Enclosures

**European Spare Parts** 

**Digital Panel Meters** 

Foot Switcher

Interface Modules

Panel Accessories

Power Supplies

Power Semi-Conductors

Programmable Controllers

Push Buttons & Pilot Lights

Relays

Safety Switches & Enclosures

Sensors

Suspension Systems

Terminal Blocks

Test & Measurement

**Tower Lights** 

Timers

Wire & Cable Management

Home

#### New Products and Promotions



# Single Phase Power Supplies

#### CIRCUIT PROTECTION



Circuit Protection Devices



Busbar & Power Distribution



Contactors, Overload Relays, Manual Motor Starters



Motor Disconnect Switches



Fuses & Holders

#### CONNECTORS



Pin & Sleeve Devices



Receptacles



**MODULES & RELAYS** 

Industrial Rectangular Connectors

#### ENCLOSURES



Industrial & ATEX Enclosures



Enclosures

#### **FOOT SWITCHES**



in cost not



Medical



Modules



Relays



& Slimline Relays

#### PANEL ACCESSORIES



Panel Lights



Heaters, Filters & Thermostats



European Spare Parts



22 & 30 mm Push Buttons & Enclosures



Pilot Lights & E-Stops

#### **POWER DEVICES**



Supplies Supplies



DC-UPS & Battery Chargers



**POWER MANAGEMENT** 

Altech Smart Relays



Digital Panel Meters



Digital Timers

#### **SAFETY SWITCHES**



Safety & Limit Switches



Switches



Suspension Systems



Cylindrical & Capacitive



Flat Pack & Ring

#### TERMINAL BLOCKS



Screw Clamp DIN Rail Terminal Blocks



Spring Clamp DIN Rail Terminal Blocks



Panel Mount Terminal Blocks



Printed
Circuit Board
Terminal Blocks



Eurostrips

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