

Energizing a world that demands more.

Eaton's products are energizing the world to maximize uptime and improve cost and energy efficiency while keeping people and property safe.

We're energized by the challenge of powering a world that demands more. With more than 100 years of experience in electrical power management, we have the expertise to see beyond today. From groundbreaking products to turnkey design and engineering services, mining owners and operators count on Eaton solutions to improve mining operations.





Electrical products and services

PH: (877) ETN-CARE

trc@eaton.com

Associated product lines

- Integrated power assemblies
- Medium- and low-voltage switchgear
- · Medium- and low-voltage motor control centers
- Capacitor banks, filters and voltage regulators
- Medium- and low-voltage drives
- Power and distribution transformers/
- Uninterruptible power supplies
- Meters and relays
- Electrical services
- Power distribution surge protection

Eaton's Power Systems business

PH: (877) 277-4636 cps-info@cooperindustries.com

Associated product lines

- Medium-voltage switchgear
- Overhead distribution equipment
- Power connectors
- Capacitor banks, filters and voltage regulators
- Arresters
- Medium-voltage transformers

Wiring devices

PH: (866) 853-4293 custserv@ cooperwiringdevices.com

Associated product lines

- Wireless and instrumentation
- · Water-tight connectors
- Wall outlets

For more information about our products and solutions, visit:

Eaton.com/Mining

Electrical systems & services



Integrated power assemblies (E-houses)

- · Turnkey engineered
- Mobile substations
- Factory acceptance testing, field commissioning





Capacitor banks, filters and voltage regulators

- Low-voltage capacitor solutions
- Medium-voltage capacitor solutions
- Passive and active filters
- Medium- and low-voltage regulators



Uninterruptible power supplies

- · Engineered solutions
- Three-phase and single-phase
- · FERRUPS voltage regulating
- · ANSI and IEC configurations



Wireless and instrumentation

- · Wireless I/O systems
- · Remote control belly packs
- Surge suppression





Medium- and low-voltage switchgear

- Metal-clad medium-voltage switchgear to 38 kV, 3000 A
- Metal-enclosed low-voltage switchgear to 600 V, 6000 A
- · Integral motorized breaker racking
- · ANSI and IEC, arc classified option





Medium- and low-voltage motor control centers

- Medium-voltage ratings to 13.8 kV, 800 A
- Low-voltage ratings to 600 V, 3200 A
- Standard, arc-resistant and arc preventive designs
- ANSI/NEMA® and IEC certified



Medium- and low-voltage drives

- MV ratings to 4160 V, 6000 hp, optional 15 kV input
- 24-pulse 2.4 kV and 4.1 kV with encapsulated technology
- LV ratings to 690 V, 2200 hp
- · 6- and 18-pulse converter
- IEEE® 519 harmonic compliance





Power and distribution transformers/busway

- Liquid filled to 12 MVA (ANSI)
- Non-segregated medium- and low-voltage busway
- FR3 environmentally-friendly fluid
- NEMA 4X Class I Division 2 hazardous location transformer



Meters and relays

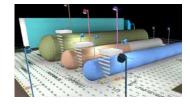
- · Revenue grade energy monitors
- · Panel meters
- · Motor and feeder protective relays
- · InsulGard partial discharge relays





Hazardous area communications

- Underground and shaft signaling systems (IEC)
- Closed circuit TV solutions
- Telephone and loudspeaker solutions
- HMI and process displays

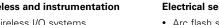


Electrical services

- · Arc flash studies
- Power system studies
- · Life cycle extension services
- · Energy management services
- · Site testing and commissioning Turnkey project services

Design tools and services

- · Lighting layout and design services
- Custom SKU-level 2D and 3D models for integration into design software
- Custom SKU-level specification
- CYME™ power engineering software



- Isolation barriers

Electrical products & bulk materials



Lighting solutions

- · LED, HID, incandescent and
- Types: flood, task, high bay, wall pack, area and roadway
- Application: indoor, outdoor, industrial, harsh, hazardous areas
- · ANSI and IEC configurations

Cable ladder systems

accessories

· Aluminum, stainless steel,

· Strut systems, fittings and

fiberglass material options

galvanized steel and FA series



Conveyor control and pushbutton stations

- · Conveyor pull switch
- · Mine signal switch
- · Pushbutton and control station
- · Conveyor belt alignment switch
- · Industrial and hazardous areas
- · ANSI and IEC configurations



Mechanical solutions

- · GripStrut® slip-resistant walkways
- · Limberoller conveyor idlers
- · Telescoping light poles



- · Junction boxes and enclosures
- Stainless steel, aluminum, fiberglass, steel iron
- · Instrument housings
- Industrial- and commercial-grade enclosures
- · Hazardous rated versions available
- · ANSI and IEC configurations





Signal and alarms

- · Beacons and strobes
- · Fire detection and alarms
- · Mass notification systems
- · ANSI and IEC configurations

Eaton's B-Line business PH: (800) 851-7415

blineus@cooperindustries.com

Eaton's Crouse-Hinds business

• Plugs, receptacles and connectors

• Cable, conduit and wiring solutions

Conveyor controls and pushbutton

• Hazardous area communications

PH: (866) 764-5454 crouse.customerctr@ cooperindustries.com

Associated product lines

• Lighting solutions

Power connectors

• Signals and alarms

 Mechanical solutions • Design tools and services Instrumentation

Associated product lines

- Cable ladder systems
- Strut and fasteners
- Enclosures
- Safety walkway grating
- Design tools and services

Plugs, receptacles and connectors

- · Welding receptacles
- · Industrial, harsh, hazardous areas
- · Molded to cable
- Passive connectivity
- · ANSI and IEC configurations



Power connectors

- · Macey coupling systems (IEC)
- Quick-Loc® Series systems (ANSI)
- Medium load break connectors (ANSI and IEC)
- · Industrial, harsh, hazardous areas





Cable and conduit wiring solutions

- · Industrial fittings
- Cable glands
- Hub reducers, adapters and accessories
- · Industrial, harsh, hazardous areas
- ANSI and IEC configurations



Low-voltage distribution

- OEM line isolation switch for control panels
- · Panels (ANSI and IEC)
- · Safety switches (ANSI and IEC)
- Dry-type distribution (ANSI)
- Control power transformers (ANSI and IEC)
- · Industrial, harsh, hazardous areas
- · Surge protective devices



Circuit breakers

- Vacuum to 38 kV
- Low-voltage power circuit breakers
- Molded-case industrial breakers
- · Molded-case mining breakers
- · ANSI and IEC configurations



Power and control fuses

- Medium-voltage expulsion and current limiting
- · Low-voltage power
- · Control fuses
- · ANSI and IEC configurations

Eaton's Lighting business

PH: (770) 486-4800 talktous@cooperindustries.com

Associated product lines

- Industrial lighting
- Indoor and outdoor fixtures
- Design tools and services

Eaton's Bussmann business

PH: (636) 394-2877 fusebox@cooperindustries.com

Associated product lines

- · Power and control fuses
- Wireless solutions

For more information about our products and solutions, visit:

Eaton.com/Mining



Discover today's Eaton.

Powering business worldwide

As a global power management company, we help customers worldwide manage the power needed for buildings, aircraft, trucks, cars, machinery and businesses.

Eaton's innovative technologies help customers manage electrical, hydraulic and mechanical power more reliably, efficiently, safely and sustainably. We provide integrated solutions that help make energy, in all its forms, more practical and accessible.

With 2015 sales of \$20.9B, Eaton has approximately 100,000 employees around the world and sells products in more than 175 countries.

Eaton.com



Eaton

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