

Solutions for oil and gas
Asia Pacific regional line card

De-risk by design

Optimised performance

Increased operational predictability

Safety solutions



Upstream



Petrochemical



LNG

Energizing a world that demands more.

Eaton brings a new dimension of expertise to help master the heavy power capabilities and safety systems integral to uninterrupted operations in the harshest environments and help maximize the efficiency of operations. Our customized, innovative solutions can be retrofitted to extend life cycles, meeting changing regulatory and processing requirements. With leading safety products, including the Crouse-Hinds™ family of offerings, we offer a unique combination of systems, components and services that ensure you minimize risk and optimize your investment, wherever your business takes you.



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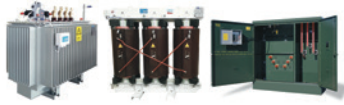
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Power and distribution transformers and busway

- Pole-mount, pad-mount and liquid-filled substation transformers
- Envirotemp FR3 environmentally friendly fluid
- IEC and NEMA/ANSI wet and dry type transformers
- Non-segregated medium-voltage busways
- Epoxy and mylar insulated low-voltage busways



E-houses and portable power solutions

- Turnkey engineered E-houses for onshore and offshore applications, including blast-proof solutions
- Mobile substations and capacitors
- Factory acceptance testing, field commissioning



Medium- and low-voltage switchgear

- Gas insulated and metal-clad medium-voltage switchgear rated up to 38 kV
- Metal-enclosed low-voltage switchgear up to 600 V, 10,000 A continuous cross bus
- Options include arc-free/arc-proof, arc quenching and arc-resistant solutions
- IEC and NEMA/ANSI certified



Medium- and low-voltage motor control centers

- Medium-voltage motor control centers rated 2.4 kV to 13.8 kV
- Ampgard™ standard and arc-resistant medium-voltage motor control
- Freedom, arc-resistant and FlashGard™ MCCs
- Power Xpert DX™ and UX
- IEC and NEMA/ANSI certified



Medium- and low-voltage drives

- 4160 V to 6000 hp
- 600 V to 2000 hp
- Standard and arc-resistant medium-voltage drives
- Low-voltage 6- and 8-pulse input technology
- IEEE® 519 harmonic compliance



Low-voltage circuit protection

- Hazardous area and marine circuit breakers
- Molded-case industrial breakers
- Bussmann™ series current-limiting fuses
- Arcflash Reduction Maintenance System™
- Arcon fault protection system
- Low-voltage air circuit breakers



Meters, sensors and relays

- Revenue-grade energy monitors
- Fast transient sampling, event monitoring
- Motor and feeder protective relays
- InsulGard partial discharge
- Power Xpert Dashboard



Low-voltage distribution

- Panelboards and safety switches
- IEC and NEMA/ANSI ratings
- Hazardous area transformers
- NEMA 1 and 3, IP66 and IEC and NEC hazardous area solutions



Backup power (UPS)

- Engineered for industrial environments with unpredictable power conditions
- 1P/3P UPS for industrial or marine application
- Marine certified
- IEC and NEMA/ANSI ratings



Cable ladder systems grating and mechanical solutions

- Aluminum, galvanized steel, stainless steel and GRP cable ladder and cable tray solutions
- Strut support systems, fittings and accessories
- Grip Strut™ safety grating and various slip-resistant grating solutions
- IEC, UL and NEMA/ANSI ratings



Distribution panels and motor control

- Power and lighting distribution panels
- Combination motor starters
- Explosionproof VFDs
- Specialty and traditional control stations
- Switch rack assemblies
- Motor protection and monitoring



Hazardous area control stations

- Suitable for use in hazardous areas
- Impact-resistant thermoplastic and metallic solutions
- Ingress protection to IP66 rated voltage to 690 V
- Contact blocks; 500 V
- Signal lamps; 240 V IEC
- IEC and NEMA/ANSI ratings



Harsh and hazardous area lighting

- Light sources: LED, HID, fluorescent and incandescent
- Types: flood, high bay, mid bay, targeted, linear, emergency and exit
- IEC and NEMA/ANSI ratings



Enclosures, cable and conduit wiring solutions

- Junction box: stainless steel, aluminum, GRP and other non-metallic solutions
- Cable glands: brass, nickel-plated brass, stainless steel, aluminum and nylon
- Fittings: aluminium, steel and iron
- Hazardous area and industrial solutions
- IEC, NEC and NEMA/ANSI ratings



Hazardous area and life safety communications

- Public address and mass notification systems
- Fire detection and alarms
- Visual and audible signaling devices
- Closed circuit TV system
- VOIP and analog phones
- IEC and NEMA/ANSI ratings



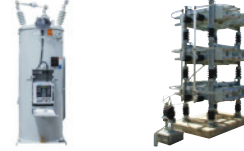
Plugs, receptacles and connectors

- Suitable for hazardous and harsh industrial use
- Single-pole connectivity
- Multi-pin connectivity
- Control and instrumentation connectors
- IEC and NEMA/ANSI ratings



Process instrumentation and protection

- Intrinsically safe
- Surge protection
- Process alarm equipment, HMI and visualization, fieldbus and industrial Ethernet
- Signal conditioning and gas analysis



Capacitor banks, filters and voltage regulators

- IEC and IEEE standards compliant capacitor solutions
- Low-, medium- and high-voltage indoor and outdoor solutions
- Passive and active power filter solutions
- Medium- and low-voltage regulators



Fluid conveyance

- LifeSense™ hydraulic hose
- Condition monitoring system
- Industrial and specialty hoses and fittings
- Connectors/couplings



Hydraulics power and motion control

- Open and closed circuit piston pumps
- Geroler™ and Gerotor™ high-speed low-torque motors
- Airflex large brakes and clutches, WCB, WCS, WCSB, DBBS, capable of producing over 10,000,000 in-lbs (1,100,000 N-m) of torque



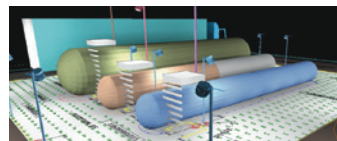
Filtration

- ASME, PED, IEL, CE, CRN, CSA, NEC, ATEX, NACE, NR-13 standards
- Gas liquid separators, pipeline strainers, bag and cartridge filtration
- ReactoGard V systems to protect fixed bed catalytic reactors
- ClearAmine™ self-cleaning filtration systems



Electrical engineering services

- Basic and advanced power system studies
- Electrical safety, power quality and arc-flash studies
- Life cycle extension and energy management services
- Site testing and commissioning
- Turnkey project services per IEEE, ANSI, IEC and local standards
- CYME Power Engineering Software



Design tools and system studies

- Lighting layout and design services
- Custom SKU-level 2D and 3D models for integration into design software
- Custom SKU-level specification sheets
- CYME Power Engineering Software
- TrayCAD™ 3D cable ladder modeling and BOM generation software and design services



Training

- Accredited CompEx and IECEx CoPC courses: globally recognized industry certifications
- Courses to cover installation, inspection, maintenance, design and responsible persons competencies
- Hands-on and classroom based training and education programs in Eaton training facilities or client locations

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Patents Held Globally

Approximately

95,000

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5

Innovation Centers Around the World

Powering business in the region

Approximately

20,000

Employees

Manufacturing in

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Sites

7

R&D Centers

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