Industrial Control—A Complete Product Offering

Adjustable Frequency Drives, Enclosed
- HVAC Drives, 3/4 to 800 hp
- Industrial and Clean Power Drives, 1 to 1200 hp

Adjustable Frequency Drives, Panel
- Machinery Drives, 1/4 to 25 hp
- HVAC Drives, 1 to 250 hp
- Industrial Drives, 1 to 2000 hp
- High-Performance Drives, 1 to 3000 hp

Aftermarket
- Genuine Motor Control Parts
- Drives and Operator Interface Service and Support
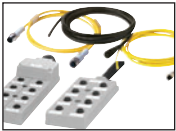- Technology Upgrades

Capacitive Proximity Sensors
- Tubular—Smooth or Threaded

Combination Motor Controllers
- UL® 508 Type F
- Non-Reversing and Reversing
- Rotary Type to 65A

Combination Starters
- IEC and NEMA®
- Circuit Breaker or Fusible
- UL 508 Type F Combination Motor Controllers

Connectivity
- Micro, Nano/Pico and Mini Connector Cables
- Multi-Connector Junction Boxes
- Field Wireable Accessories

Contactors—IEC
- Miniature Controls to 8.8A (AC3)
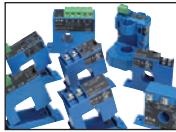- FVNR to 1600A (AC3)
- FVR to 150A (AC3)

Contactors—NEMA
- FVNR and FVR to Size 8 (900 hp)
- 4- and 5-Pole to Size 2 (25 hp)

Control Stations
- General Purpose and Heavy Duty
- Fixed Element or Modular
- 22.5 mm and 30.5 mm Devices

Counters
- Can Counters
- Preset Counters
- Stroke or Revolution Counters

Current Sensors
- Self Powered
- Analog and Discrete Outputs
- Solid or Split Core Housings

DC Contactors
- DP Rated 1250 to 3000A (1000 to 2000 Vdc)
- NEMA Rated 5 to 1800A (600 Vdc)

Definite Purpose Control
- 1-, 2-, and 4-Pole to 40A; 3-Pole to 360A
- Reversing Contactors to 75A
- Starters to 60A—Bimetallic and Electronic Overloads
- NEMA Type 1 Enclosed

Digital Panel Meters

Electronic Products
- Electronic Interface to Vehicle's Communication Network
- Customizable Laser-Etched Legends and Icons
- Standard Cutout with Low Rear Profile and Less Wiring

Encoders

Enclosed Control
- Non-Combination Starters
- Combination Starters
- Manual Motor Starters
- Reduced Voltage Soft Starters
- Adjustable Frequency Drives
- Lighting Controls

Enclosures, Control Stations
- 1 to 9 Holes for 22.5 mm
- 1 to 3 Holes for 30.5 mm
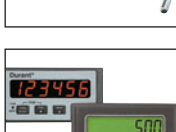- Polycarbonate, Die Cast, Stainless Steel and Polyester Types

E-Stop Switches
- 22.5 mm and 30.5 mm Devices
- Push-Pull, Keyed, Illuminated and Non-Illuminated Twist-to-Release

Fiber Optic Cables
- Glass or Plastic

Flow Totalizers and Control

Fuse Holders and Fuse Blocks

Hour Meters

Inductive Proximity Sensors
- Tubular, Rectangular, Limit Switch or Pancake Styles
- Metal Face, Extended Range, Analog and Programmable Types

Integrated Machine Controllers

Joysticks
- 22.5 mm or 30.5 mm Devices
- 2- and 4-Position
- Momentary, Maintained and Latched

Key Interlock Switches
- DIN or NEMA Style

Key Switches
- 22.5 mm or 30.5 mm Devices

LEDs
- BA9 and BA15 Base

Lighting Contactors
- Electrically or Mechanically Held
- Magnetically Latched

Limit Switches
- Precision Switches
- Compact, DIN and NEMA Style
- Modular and Factory Sealed
- Heavy Duty, Special Purpose and Hazardous Location

Manual Motor Controllers
- Rotary Type to 65A

Manual Motor Protectors
- Pushbutton Type to 25A
- Rotary Type to 65A Enclosures, Global and North American

Manual Self-Protected Motor Starters
- UL 508 Type E
- Rotary Type to 65A

FAT•N

Powering Business Worldwide

Monitoring Relays
- Current
- Phase
- Voltage

Motor Protection Relays

Operator Interface
- 4- to 15-inch TFT Touch-screens and Keypads
- Text and Graphics Panels to Windows®-based Operator Interface with SCADA Software

Overload Relays
- Bimetallic Type to 630A
- Electronic Type to 1500A

Photoelectric Sensors
- Miniature, Tubular, Rectangular and Limit Switch Styles
- Background Rejection, Harsh-Duty and High-Performance Sensors

Power Distribution Blocks
- Open and Enclosed Types
- High SCCR Rated Blocks

Power Supplies (24V)
- General Purpose to 20A/480W
- High Outrush to 40A/1000W

Programmable Logic Controllers
- Up to 500 I/O
- Digital and Analog In/Out
- Specialty Modules
- Modbus® TCP, DeviceNet™, PROFIBUS® and Serial Communications

Programmable Relays
- With or Without Displays
- 12 to 40 Digital and Analog I/O Locally
- Up to 320 Points thru Network
- Ethernet IP, DeviceNet, PRO-FIBUS, ASi and CANopen Slave Communications

Pushbuttons and Indicating Lights
- 22.5 mm or 30.5 mm Devices
- General Purpose AC and DC Rated Pushbuttons

Ratemeters

Relays
- Ground Fault
- General Purpose
- Machine Tool
- Monitoring and Alternating
- Solid-State
- Timing

Rocker Switches
- Sealing Options up to IP68
- Numerous Actuator Styling and Lighting Options
- Industry Standard Panel Cut-outs
- Various Circuit Configurations

Selector Switches
- 22.5 mm or 30.5 mm Devices
- 2-, 3-, and 4-Position
- Rotary Cam 22.5 mm Selector Switches in 4-, 5-, 6-, 7-, and 8-Position

Sensors
- Inductive Proximity
- Capacitive
- Photoelectric
- Power
- Limit Switches

Soft Start Controllers
- 2- and 3-Phase Devices to 150 hp
- Internal Bypass Contactor

Soft Starters
- 3-Phase to 1000 hp
- Built-in Overload and Run Bypass Contactor
- Communications Capabilities

Stacklights
- Audible Alarm Modules
- Incandescent, LED and Xenon Light Modules

Starters—IEC
- Bimetallic or Electronic Overloads
- FVNR to 250A (AC3 w/ Bimetallic)
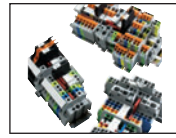- FVNR to 150A (AC3 w/ Electronic)
- FVR to 65A (AC3)

Starters—NEMA
- Bimetallic or Electronic Overloads
- FVNR and FVR to Size 8 (900 hp)
- Two Speed to Size 5 (150 hp)

Temperature Controllers

Terminal Blocks
- IEC Terminal Blocks
- NEMA Terminal Blocks
- Terminal Strips
- Modular Terminal Blocks

Timers and Timing Devices
- Non-Programmable
- Programmable

Toggle Switches
- Sealing Options
- Military Specification Available
- Illumination Design
- Numerous Actuator Styling and Circuit Configurations

Torque Limiters
- 1- and 3-Phase to 25 hp

Totalizers
- Mechanical
- Electromechanical
- Electronic

Vacuum Contactors
- NEMA Rated to 400 hp
- Special Purpose Rated to 1600 hp
- IEC Rated, 580A–2000A, to 1700 hp
- Mining Rated to 1300 hp

Vehicle Power Management
- Inverts DC to AC Power
- Liquid Cooled
- Fully Submersible and Fully Sealed

Voltage Sensors
- True rms Output
- Compact DIN body
- 4 to 20 mA Output

Wobble Sticks
- 22.5 mm Devices

Zero Pressure Accumulation Sensors
- Designed for Conveyor Use, with Embedded Logic and Communications

Electrical Sector
1111 Superior Ave.
Cleveland, OH 44114
United States
877-ETN-CARE (877-386-2273)
Eaton.com

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Powering Business Worldwide