Medium Voltage Product Capabilities
MVB Series
Medium Voltage Draw-Out Circuit Breaker

**Standard Breaker Features:**
- 1200, 2000, 3000 Amps, 3 phase, 60 Hz, up to 15KV, Metal Enclosed
- Main Bus, Tin-Plated Copper, Insulated
- Withstand Ratings to 50kA
- Voltage Transformer
- Current Transformers
- Safety Barriers, Front Access
- Draw-Out Breaker
- Protection Relay
- Switch / Control Options
- 86 Lockout Relay, Breaker Control Switch
- Current / Voltage Test Switch, Shorting Block
- 3 LED Indicating Lights, Green = Open, Red = Closed, Amber = Fault
- Auxiliary Control for Breaker Position
- Capacitor Trip Device
- Ultra Safe Fuse Blocks
- Safe Control Test
- Arrestors

**Additional Features:**
- Ultrasound Ports
- Thermal Viewing Windows
- Live Line Indication
- Mimic Bus
- Optional Incoming Section
- Remote Breaker Operator
- Lifting Truck, Lifting Yoke
- Arc Mitigation Relays

**Key Features:**
- Customizable incoming section to meet customer cable entry requirements
- No transition section required to meet Benshaw® Medium Voltage equipment
- Compact and Flexible Design
- Manufactured by Benshaw and Supported by Benshaw
- 2-High Breaker Configuration
- 2 Year Manufacturer Warranty
MVRMX Series
Medium Voltage Solid State Softstart

Standard Softstart Features:
• UP to 30000 HP 3 phase, 60 Hz, up to 15KV, Metal Enclosed
• Withstand ratings to 50kA
• 45 / 60 KV BIL
• Metal Enclosed Nema1, 12, 3R enclosures
• Benshaw® MX³ controller
• Thermal Capacity 500% for 30 seconds
• Load matched load break and fuses
• Inline and Bypass contactors
• Programmable acceleration and deceleration ramp profiles
• Programmable starting and stopping modes
• Integrated electronic motor protection
• Real-time metering and diagnostics
• Fiber Optic Gate firing
• Motor heater control
• Anti-windmilling
• Slow speed cyclo converter
• Door-mounted LCD keypad
• Built-In Self Test (BIST) for component integrity
• 8 digital programmable inputs
• 6 programmable relay outputs
• 1 programmable analog 0/4-20mA / 0-10VDC input
• 1 programmable analog 0/4-20mA / 0-10VDC output
• Motor PTC input
• Modbus Communication

Additional Features:
• Thermal viewing windows
• Live line indication
• Mimic bus
• Optional incoming section
• Communication protocols, Ethernet, DeviceNet, Profibus
• Arc mitigation relays
• Full voltage bypass
• Zero sequence ground protection
• Ground balls
• RTD protection

Key Features:
• Customizable to meet customer requirements, two speed, reversing, multiple motor, combination and non-combination, mining duty skid mounted, NEMA 1, 12, 3R, 4 and 4X
• Solid State technology for standard induction, synchronous and wound rotor motors
• No transition section required to meet Benshaw® medium voltage equipment
• Compact and flexible design
• Manufactured by Benshaw and supported by Benshaw
• 3 Year Manufacturer Warranty
MVATL Series
Medium Voltage Across the Line Starter

Standard ATL Features:
- 3 phase, 50/60Hz, up to 15kV Metal Enclosed
- Withstand Ratings to 50kA
- 45 / 60 KV BIL
- Metal Enclosed Nema1, 12, 3R enclosures
- Load matched load break and fuses
- HP Rated Bypass contactors
- Integrated electronic motor protection
- Real-time metering and diagnostics
- Isolated 120V Control Section

Motor Protection Option:
- Electronic or Digital Overload
- MX³ Series Control
- Motor Protection Relay

Additional Features:
- Thermal viewing windows
- Live line indication
- Mimic bus
- Optional incoming section
- Communication protocols, Ethernet, DeviceNet, Profibus, Lon Works
- Arc Flash Mitigation Relays
- Zero sequence ground protection
- Ground balls
- RTD protection

Key Features:
- Customizable to meet customer requirements, reversing, multiple motor, combination and non-combination, mining duty skid mounted, NEMA 1, 12, 3R and 4
- Single or Two-high Design
- Solid State technology for, standard induction, synchronous and wound rotor motors
- No transition section required to meet Benshaw® medium voltage equipment
- Compact and flexible design
- Manufactured by Benshaw and supported by Benshaw
- 3 Year Manufacturer Warranty
Medium Voltage Motor Control Center
MVMS Series
Customizable Underground Mine Skid

Standard Mine Skid Features:
- 1200 or 2000Amps, 3 phase, 60 Hz, up to 15KV, Metal Enclosed
- Fault Make, Load Brake Disconnect Switch
- Vertical Hoist Rated Frame
- High Durability Rails
- Withstand Ratings up to 40kA
- Customizable Line and Load Connections
- Voltage Specified Paneling
- Voltage Transformer
- Current Transformers
- Protection Relay
- Switch / Control Options
- Current:
  - Voltage Test Switch
  - Shorting Block
- 3 LED Indicating Lights:
  - Green = Open,
  - Red = Closed
  - Amber = Fault
- Ultra Safe Fuse Blocks

Key Customizable Features:
- Portable Compact Design
- Mine Power Centers
- Power Distribution Centers
- Starter Control Centers
Additional Medium Voltage Capabilities

15kV Soft Starter with Circuit Breaker Bypass

Load Break Switch

MV Junction Boxes
UNICO Technologies Group
Power and Precision in Motion

Taking care of our customers’ power needs has been our single focus for 88 years. Our two leading brands bring innovative control and electrical solutions to solve your challenges. Through thousands of systems in a broad array of applications, we’ve learned what it takes to make your system live up to its potential.

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