



# **BENSHAW**

Applied Motor Controls

AN AMCONEX GROUP COMPANY

## Product Catalog



JANUARY 2026 EDITION

## **Medium Voltage ATL Starters**

**Basic and Genius Motor Control**

*Rapid | Rugged | Global*



Benshaw standard products are stocked in warehouses in the USA and Canada ... ready for shipment to support your critical needs.

#### CONTACT US:

Benshaw Inc. (USA):

- Phone: 412-968-0100
- Fax: 412-968-5415

Benshaw Canada Controls Inc. (Canada):

- Phone: 519-291-5112
- Fax: 519-291-2595

#### VISIT US ONLINE:

[www.Benshaw.com](http://www.Benshaw.com)

USA WEBSTORE ...

## BenshawExpress.com

CANADIAN WEBSTORE ...

## BenshawExpress.ca

Benshaw Express is a convenient, time-saving tool for Benshaw authorized distributors. Our webstore provides 24/7/365 access to ...

- Check product pricing and availability
- Place and track orders for standard products (soft starters, variable frequency drives, full voltage controls, molded case circuit breakers, pilot devices, parts and accessories)
- Configure packaged products
- View recent orders
- And more ...

**CONTENTS**

Basic ATL Starter .....4

Model Selector/Ratings.....5

“Genius” ATL Starter.....6

Next Gen (NX) Control Features.....7

Model Selector/Ratings.....8

Next Gen Control “Genius” App.....9

Drawings .....10

Basic 20” Wide ATL Starter .....12

Model Selector/Ratings.....13

Genius 20” Wide ATL Starter.....14

Model Selector/Ratings .....15

MVDH-ATL Dual-High ATL Starter .....16

Model Selector/Ratings.....17

Drawings .....18

Spare Parts Kit.....20

MVDISC Load Break Interrupter Switch .....21

Model Selector/Ratings .....21

## FULL VOLTAGE ACROSS-THE-LINE STARTERS

### BASIC ATL STARTER

*Benshaw Basic Medium Voltage Across-The-Line (ATL) Starters are full voltage controllers for three phase induction motors. All ATL starters from Benshaw are supplied in a free-standing enclosure, with NEMA 12 and NEMA 3R configurations available to suit your application requirements.*

*Benshaw's compact, flexible, full voltage starters can be customized to support reversing, multiple motor, combination and non-combination, induction, synchronous, wound rotor, mining duty (skid mounted), and other motor control requirements.*

### KEY FEATURES

The basic medium voltage combination ATL starter includes:

- NEMA 12 or 3R enclosure
- Cable entry top
- Cable exit bottom
- Disconnect Switch
  - Load break/fault make
  - 5kV Class "R" rated fuses
  - Current limiting
  - Grounding bar
  - Viewing window
- Withstand rating: 50kA
- 60kV BIL rating
- Vacuum motor starting contactor
- Start/stop push buttons
- Electronic Overload protection
  - Class 10-30 adjustable
  - 1 NO, 1 NC trip contact
  - "Trip-Free" design
  - Phase imbalance protection
  - Phase reversal protection
  - Phase loss protection
  - Test function/trip indication
  - Fault indication



Basic ATL Starter

# MODEL SELECTOR / RATINGS

## BASIC ATL STARTER

### 2300V

| MODEL NUMBER        | HP   | FLA | DIMENSIONS (IN.) |    |    | APPROX. WEIGHT (LBS.) |
|---------------------|------|-----|------------------|----|----|-----------------------|
|                     |      |     | H                | W  | D  |                       |
| CFMVATL-150-2300**  | 150  | 36  | 92.5             | 24 | 30 | 1200                  |
| CFMVATL-500-2300**  | 500  | 120 | 92.5             | 24 | 30 | 1200                  |
| CFMVATL-750-2300**  | 750  | 180 | 92.5             | 24 | 30 | 1200                  |
| CFMVATL-1000-2300** | 1000 | 240 | 92.5             | 24 | 30 | 1200                  |
| CFMVATL-1250-2300** | 1250 | 300 | 92.5             | 24 | 30 | 1200                  |
| CFMVATL-1500-2300** | 1500 | 360 | 92.5             | 24 | 30 | 1200                  |

\*\* Insert appropriate option code as shown below:  
 NEMA 12 = 12  
 NEMA 3R = 3R

### 4160V

| MODEL NUMBER         | HP   | FLA | DIMENSIONS (IN.) |    |    | APPROX. WEIGHT (LBS.) |
|----------------------|------|-----|------------------|----|----|-----------------------|
|                      |      |     | H                | W  | D  |                       |
| CFMVATL-300-4160-**  | 300  | 40  | 92.5             | 24 | 30 | 1200                  |
| CFMVATL-750-4160-**  | 750  | 99  | 92.5             | 24 | 30 | 1200                  |
| CFMVATL-1000-4160-** | 1000 | 133 | 92.5             | 24 | 30 | 1200                  |
| CFMVATL-1250-4160-** | 1250 | 166 | 92.5             | 24 | 30 | 1200                  |
| CFMVATL-1500-4160-** | 1500 | 200 | 92.5             | 24 | 30 | 1200                  |
| CFMVATL-2000-4160-** | 2000 | 266 | 92.5             | 24 | 30 | 1200                  |
| CFMVATL-2500-4160-** | 2500 | 333 | 92.5             | 24 | 30 | 1200                  |
| CFMVATL-3000-4160-** | 3000 | 360 | 92.5             | 24 | 30 | 1200                  |

\*\* Insert appropriate option code as shown below:  
 NEMA 12 = 12  
 NEMA 3R = 3R

## FULL VOLTAGE ACROSS-THE-LINE STARTERS

### GENIUS ATL STARTER

*Benshaw “Genius” Medium Voltage Across-The-Line (ATL) Starters are full voltage controllers for three- phase induction motors. Starters include the Benshaw’s NX controller for advanced motor protection, metering, diagnostics and communication.*

*Combination “Genius” starters are supplied in a free-standing enclosure. Enclosures are available in NEMA 12 and NEMA 3R configurations. Enclosures consists of two compartments. The medium voltage section is located in the main body of the enclosure and the low voltage section containing the control logic is located behind the door in an isolated compartment. Door mounted keypad is included.*

*Standard combination “Genius” starters are supplied with a load break/fault make disconnect isolation switch, Class “R” motor current limiting fuses, vacuum motor starting contactor and the NX controller and display.*

### KEY FEATURES

The Genius medium voltage combination ATL starter includes:

- NEMA 12 or 3R enclosure
- Cable entry top
- Cable exit bottom
- Disconnect Switch
  - Load break/fault make
  - 5kV Class “R” rated fuses
  - Current limiting
  - Grounding bar
  - Viewing window
- Withstand Rating: 50kA
- 60kV BIL rating
- Vacuum motor starting contactor
- Genius programmable keypad with Next Gen (NX) controller
- Start/stop push buttons
- Featured items via Next Gen (NX) Keypad
  - Next Gen (NX) overload protection
  - Phase imbalance protection
  - Phase reversal protection
  - Phase loss protection
  - Test function/trip indication
  - Fault indication



“Genius” ATL Starter

***“A generational change in processor speed, protection/monitoring functionality and communication capabilities”***

# NEXT GEN (NX) CONTROL FEATURES

The “Genius” Medium Voltage “ATL” package includes the Next Gen (NX) controller for additional branch circuit monitoring motor protection, metering, diagnostics and communication. A sampling of these enhanced features includes:

## KEY FEATURES

- **Expandable system**
  - HMI with full-color display (panel-mount)
  - DIN rail-mounted control modules
  - Additional DIN rail-mounted modules (can be connected via CAN bus to expand the system and provide additional features)
- **Built-in connectivity**
  - Bluetooth Low Energy (BLE) wireless connection to mobile app
  - Built-in Modbus RTU
  - 6 x digital inputs
  - 4 x relay outputs
  - Analog output with digital offset and span adjustment
  - USB-A socket
  - CAN bus-based expansion to other modules
- **Easy to understand interface**
  - Plain text menus and displays
  - Color-coded status bar
  - Informative on-screen metering
  - Real-time clock
  - Programmable metering
  - Resettable run time and power consumption metering
  - Multi-language menus and display
  - Passcode protection
- **Customizable protection**
  - Motor overload (thermal model)
  - Undercurrent/Overcurrent
  - Underpower/Overpower
  - Undervoltage/Overvoltage
  - Current imbalance
  - Stalled motor protection (Excess start time /UTS)
  - Line frequency
  - Phase sequence
  - Phase loss (single phasing)
  - Power factor leading/lagging
  - Residual or zero-sequence ground fault protection
  - Backspin/restart timer
  - Starts per hour
  - Time between starts
  - Power outage ride-through
- **Motor control modes**
  - Genius ATL - injection test compatible
  - Genius Wye/Delta
  - Power loss ride-through
- **Commissioning/troubleshooting tools**
  - Extensive trip and event logging
  - Versatile trip actions
  - High-speed waveform capture during start, stop and faults
  - Self-test and run simulation mode
- **Cybersecurity**
  - PIN number protection
  - Digitally signed firmware
  - Secure Bluetooth pairing
- **Optional expansion modules**
  - 8 or 16 RTD inputs, with overload biasing
  - Ethernet/IP
  - CAN bus isolation
  - Profinet coming late 2025
  - Profibus coming late 2025



**“It’s Genius”**

# MODEL SELECTOR / RATINGS

## GENIUS ATL STARTER



### 2300V

| MODEL NUMBER          | HP   | FLA | DIMENSIONS (IN.) |    |    | APPROX. WEIGHT (LBS.) |
|-----------------------|------|-----|------------------|----|----|-----------------------|
|                       |      |     | H                | W  | D  |                       |
| CFMVNXATL-150-2300**  | 150  | 36  | 92.5             | 24 | 30 | 1300                  |
| CFMVNXATL-500-2300**  | 500  | 120 | 92.5             | 24 | 30 | 1300                  |
| CFMVNXATL-750-2300**  | 750  | 180 | 92.5             | 24 | 30 | 1300                  |
| CFMVNXATL-1000-2300** | 1000 | 240 | 92.5             | 24 | 30 | 1300                  |
| CFMVNXATL-1250-2300** | 1250 | 300 | 92.5             | 24 | 30 | 1300                  |
| CFMVNXATL-1500-2300** | 1500 | 360 | 92.5             | 24 | 30 | 1300                  |

\*\* Insert appropriate option code as shown below:  
 NEMA 12 = 12  
 NEMA 3R = 3R

### 4160V

| MODEL NUMBER          | HP   | FLA | DIMENSIONS (IN.) |    |    | APPROX. WEIGHT (LBS.) |
|-----------------------|------|-----|------------------|----|----|-----------------------|
|                       |      |     | H                | W  | D  |                       |
| CFMVNXATL-300-4160**  | 300  | 40  | 92.5             | 24 | 30 | 1300                  |
| CFMVNXATL-750-4160**  | 750  | 99  | 92.5             | 24 | 30 | 1300                  |
| CFMVNXATL-1000-4160** | 1000 | 133 | 92.5             | 24 | 30 | 1300                  |
| CFMVNXATL-1250-4160** | 1250 | 166 | 92.5             | 24 | 30 | 1300                  |
| CFMVNXATL-1500-4160** | 1500 | 200 | 92.5             | 24 | 30 | 1300                  |
| CFMVNXATL-2000-4160** | 2000 | 266 | 92.5             | 24 | 30 | 1300                  |
| CFMVNXATL-2500-4160** | 2500 | 333 | 92.5             | 24 | 30 | 1300                  |
| CFMVNXATL-3000-4160** | 3000 | 360 | 92.5             | 24 | 30 | 1500                  |

\*\* Insert appropriate option code as shown below:  
 NEMA 12 = 12  
 NEMA 3R = 3R

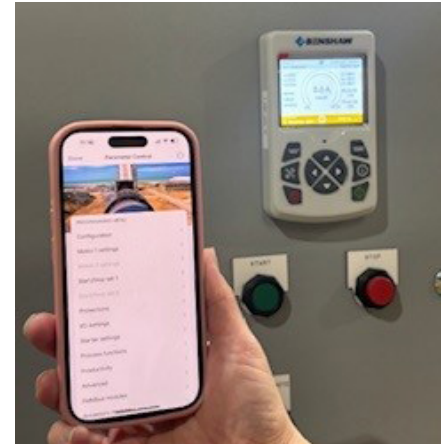
***"It's Genius"***

# NEXT GEN CONTROL “GENIUS” APP

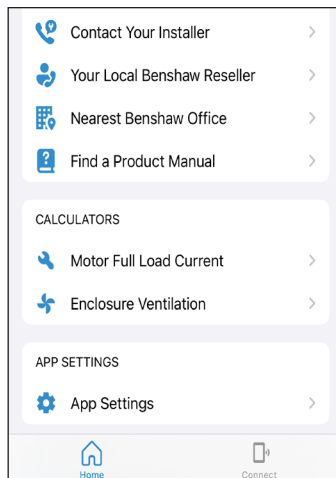
## It's Genius!

*Start Here is a powerful, user-friendly starter programming and troubleshooting app developed by Benshaw's engineering team for use on both iOS (App Store) and Android (Google Play) powered mobile devices. The Start Here app was developed to the latest in cybersecurity protocol, giving you peace of mind when connecting your mobile device to the starter.*

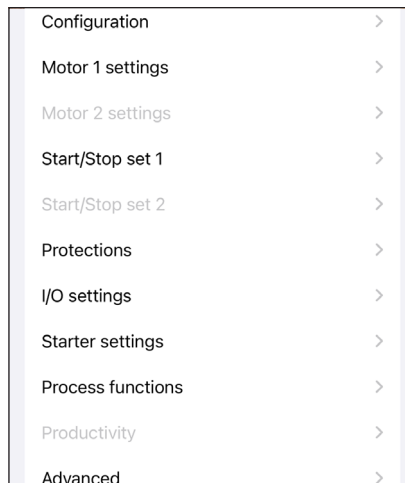
*The powerful Start Here app connects to the Next Generation NX controller through Bluetooth Low Energy (BLE), where you're able to update to the latest software through the cloud, update parameters, view event logs, download event and parameter data, and contact service support. Full starter troubleshooting and programming capabilities from your phone – now that's genius!*



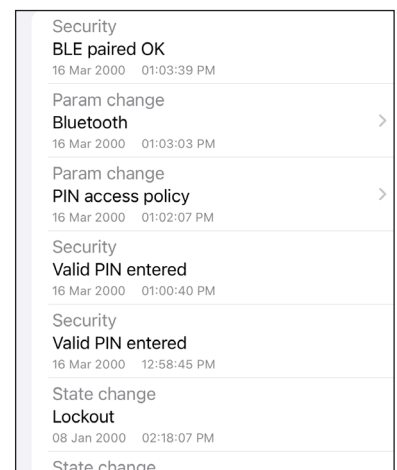
### Home Screen



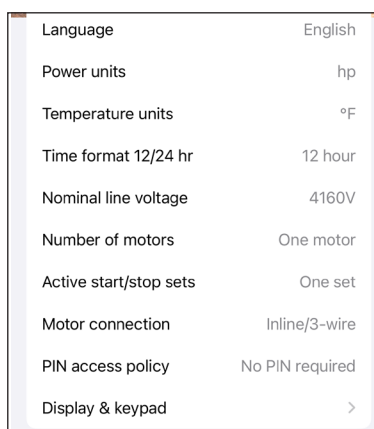
### Programming Menu



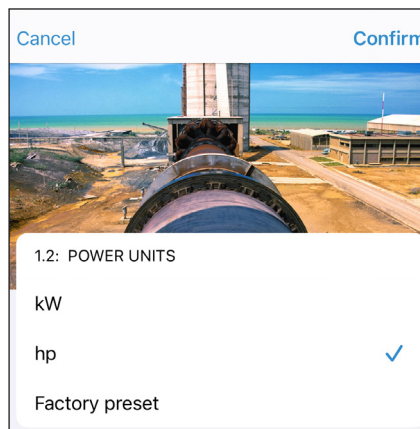
### Event Logs



### Configuration



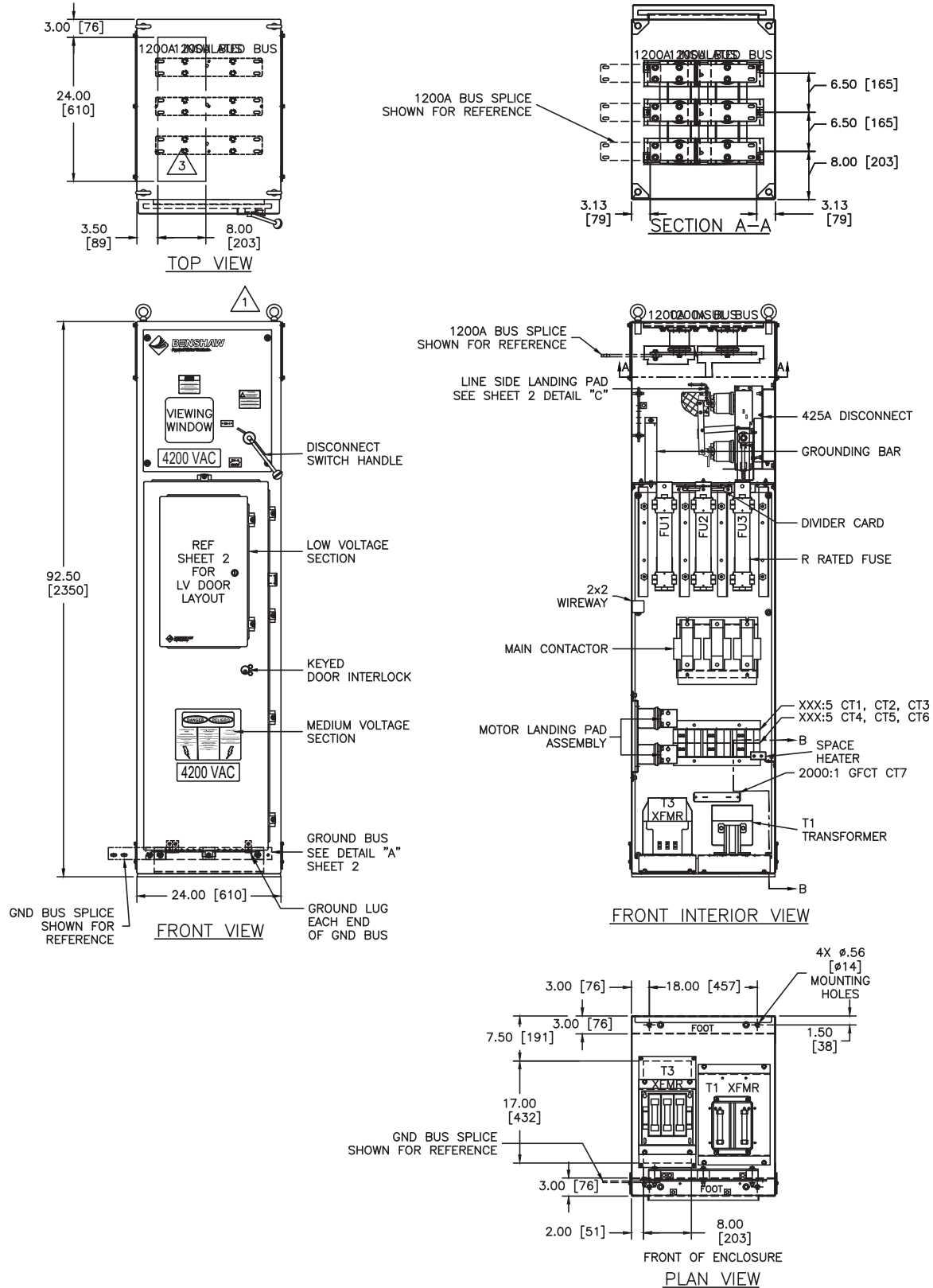
### Power Units



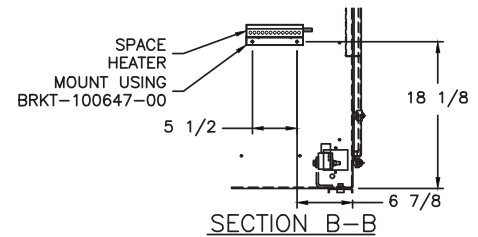
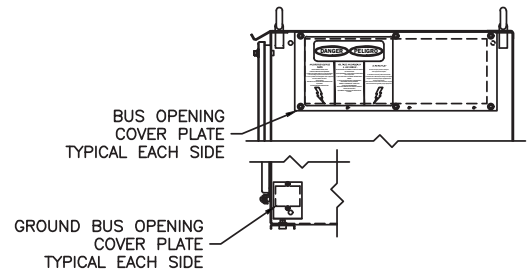
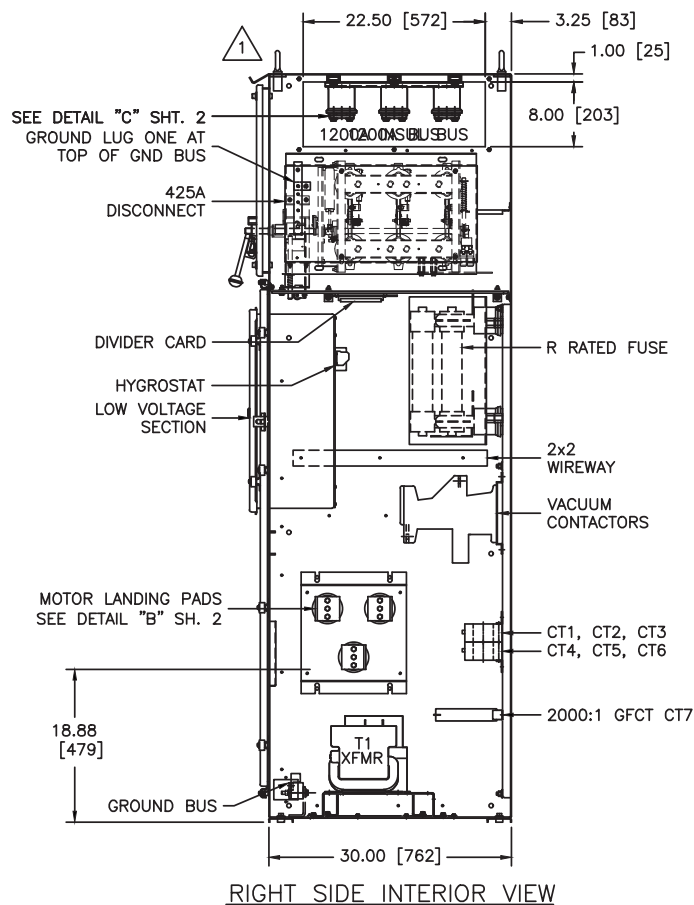
### Nominal Line Voltage



# GENIUS ATL STARTER - DRAWINGS



# GENIUS ATL STARTER - DRAWINGS



## NOTES:

- 1 REMOVABLE LIFTING EYEBOLTS
- 2 CABLE ENTRY/EXIT AREA. CUTOUT W/ COVER PLATE SUPPLIED
- 3 CABLE ENTRY/EXIT AREA. NO CUTOUT SUPPLIED. CUSTOMER TO CUT AS REQUIRED.
4. ENCLOSURE COLOR: ANSI 61 GREY
5. TIGHTEN BOLTS PER CHART BELOW

| STEEL BOLT<br>TORQUE IN POUND-FOOT [NEWTON-METER] |           |         |           |            |
|---------------------------------------------------|-----------|---------|-----------|------------|
| 1/4-20                                            | 5/16-18   | 3/8-16  | 1/2-13    | 5/8-11     |
| 5 [6.8]                                           | 12 [16.3] | 20 [27] | 50 [67.8] | 95 [128.8] |

6. APPROXIMATE WEIGHT IS 1200LBS [544KG]

7. ITEMS SHIPPED LOOSE. CUSTOMER TO INSTALL IN FIELD. REFERENCE APPROPRIATE ASSEMBLY AND SCHEMATIC DRAWINGS FOR PROPER INSTALLATION. CALL BENSHAW CUSTOMER SERVICE WITH QUESTIONS, 1-800-203-2416.

## FULL VOLTAGE ACROSS-THE-LINE STARTERS

### COMPACT, BASIC 20" WIDE ATL STARTER

*Benshaw Basic 20" Wide Medium Voltage Across-The-Line (ATL) Starters are full voltage motor controllers designed for those installations where space limitations call for a smaller enclosure footprint.*

#### KEY FEATURES

The 20" wide medium voltage combination ATL starter includes:

- NEMA 12 or 3R enclosure
- Cable entry top
- Cable exit bottom
- 600A Load Break Disconnect Switch
  - 5kV Class "R" rated fuses
  - Current limiting
  - Grounding bar
  - Viewing window
- Withstand Rating: 50kA
- 60kV BIL rating
- Vacuum motor starting contactor
- Start/stop push buttons
- Power fuses sized according to motor or load
- Isolated 120V control section
- "SPE" overload protection
  - Class 10-30 adjustable
  - 1 NO, 1 NC trip contact
  - "Trip-Free" design
  - Phase imbalance protection
  - Phase reversal protection
  - Phase loss protection
  - Test function/trip indication
  - Fault indication
- Optional extendable horizontal bus (800A, 1200A, 1600A or 2000A ratings available)



20" Wide ATL Starter

# MODEL SELECTOR / RATINGS

## 20" WIDE BASIC ATL STARTER

### 2300V

| MODEL NUMBER                   | HP   | FLA | DIMENSIONS (IN.) |    |    | APPROX. WEIGHT (LBS.) |
|--------------------------------|------|-----|------------------|----|----|-----------------------|
|                                |      |     | H                | W  | D  |                       |
| CFMVATL20-500-2300- <b>**</b>  | 500  | 120 | 92.5             | 20 | 30 | 1200                  |
| CFMVATL20-750-2300- <b>**</b>  | 750  | 180 | 92.5             | 20 | 30 | 1200                  |
| CFMVATL20-1000-2300- <b>**</b> | 1000 | 240 | 92.5             | 20 | 30 | 1200                  |
| CFMVATL20-1250-2300- <b>**</b> | 1250 | 300 | 92.5             | 20 | 30 | 1200                  |
| CFMVATL20-1500-2300- <b>**</b> | 1500 | 360 | 92.5             | 20 | 30 | 1200                  |
| CFMVATL20-1750-2300- <b>**</b> | 1750 | 420 | 92.5             | 20 | 30 | 1200                  |

**\*\*** Insert appropriate option code as shown below:  
 NEMA 12 = 12  
 NEMA 3R = 3R

### 4160V

| MODEL NUMBER                   | HP   | FLA | DIMENSIONS (IN.) |    |    | APPROX. WEIGHT (LBS.) |
|--------------------------------|------|-----|------------------|----|----|-----------------------|
|                                |      |     | H                | W  | D  |                       |
| CFMVATL20-300-4160- <b>**</b>  | 300  | 40  | 92.5             | 20 | 30 | 1200                  |
| CFMVATL20-750-4160- <b>**</b>  | 750  | 99  | 92.5             | 20 | 30 | 1200                  |
| CFMVATL20-1000-4160- <b>**</b> | 1000 | 133 | 92.5             | 20 | 30 | 1200                  |
| CFMVATL20-1250-4160- <b>**</b> | 1250 | 166 | 92.5             | 20 | 30 | 1200                  |
| CFMVATL20-1500-4160- <b>**</b> | 1500 | 200 | 92.5             | 20 | 30 | 1200                  |
| CFMVATL20-2000-4160- <b>**</b> | 2000 | 266 | 92.5             | 20 | 30 | 1200                  |
| CFMVATL20-2500-4160- <b>**</b> | 2500 | 333 | 92.5             | 20 | 30 | 1200                  |
| CFMVATL20-3000-4160- <b>**</b> | 3500 | 450 | 92.5             | 20 | 30 | 1200                  |

**\*\*** Insert appropriate option code as shown below:  
 NEMA 12 = 12  
 NEMA 3R = 3R

## FULL VOLTAGE ACROSS-THE-LINE STARTERS

### COMPACT, “GENIUS” 20” WIDE ATL STARTER

*Benshaw “Genius” 20” Wide Medium Voltage Across-The-Line (ATL) starters are full voltage motor controllers designed for those installations where space limitations call for a smaller enclosure footprint.*

*Includes Benshaw’s Next Gen (NX) controller for advanced motor protection, metering, diagnostics and communication. See page 7 for details.*

### KEY FEATURES

The “Genius” medium voltage combination ATL starter includes:

- NEMA 12 or 3R enclosure
- Cable entry top
- Cable exit bottom
- Disconnect Switch
  - Load break/fault make
  - 5kV Class “R” rated fuses
  - Current limiting
  - Grounding bar
  - Viewing window
- Withstand Rating: 50kA
- 60kV BIL rating
- Vacuum motor starting contactor
- “Genius” programmable keypad with Next Gen (NX) controller
- Start/stop push buttons
- Featured items via Next Gen (NX) Keypad
  - Next Gen (NX) overload protection
  - Phase imbalance protection
  - Phase reversal protection
  - Phase loss protection
  - Test function/trip indication
  - Fault indication



20” Wide, “Genius” ATL Starter

**“It’s Genius”**

# MODEL SELECTOR / RATINGS

## 20" WIDE "GENIUS" ATL STARTER

### 2300V

| MODEL NUMBER            | HP   | FLA | DIMENSIONS (IN.) |    |    | APPROX. WEIGHT (LBS.) |
|-------------------------|------|-----|------------------|----|----|-----------------------|
|                         |      |     | H                | W  | D  |                       |
| CFMVNXATL20-150-2300**  | 500  | 120 | 92.5             | 20 | 30 | 1300                  |
| CFMVNXATL20-500-2300**  | 750  | 180 | 92.5             | 20 | 30 | 1300                  |
| CFMVNXATL20-750-2300**  | 1000 | 240 | 92.5             | 20 | 30 | 1300                  |
| CFMVNXATL20-1000-2300** | 1250 | 300 | 92.5             | 20 | 30 | 1300                  |
| CFMVNXATL20-1250-2300** | 1500 | 360 | 92.5             | 20 | 30 | 1300                  |
| CFMVNXATL20-1500-2300** | 1750 | 420 | 92.5             | 20 | 30 | 1300                  |

\*\* Insert appropriate option code as shown below:  
 NEMA 12 = 12  
 NEMA 3R = 3R

### 4160V

| MODEL NUMBER            | HP   | FLA | DIMENSIONS (IN.) |    |    | APPROX. WEIGHT (LBS.) |
|-------------------------|------|-----|------------------|----|----|-----------------------|
|                         |      |     | H                | W  | D  |                       |
| CFMVNXATL20-300-4160**  | 300  | 40  | 92.5             | 20 | 30 | 1300                  |
| CFMVNXATL20-750-4160**  | 750  | 99  | 92.5             | 20 | 30 | 1300                  |
| CFMVNXATL20-1000-4160** | 1000 | 133 | 92.5             | 20 | 30 | 1300                  |
| CFMVNXATL20-1250-4160** | 1250 | 166 | 92.5             | 20 | 30 | 1300                  |
| CFMVNXATL20-1500-4160** | 1500 | 200 | 92.5             | 20 | 30 | 1300                  |
| CFMVNXATL20-2000-4160** | 2000 | 266 | 92.5             | 20 | 30 | 1300                  |
| CFMVNXATL20-2500-4160** | 2500 | 333 | 92.5             | 20 | 30 | 1300                  |
| CFMVNXATL20-3000-4160** | 3500 | 450 | 92.5             | 20 | 30 | 1300                  |

\*\* Insert appropriate option code as shown below:  
 NEMA 12 = 12  
 NEMA 3R = 3R

## FULL VOLTAGE ACROSS-THE-LINE STARTERS

### DUAL-HIGH MEDIUM VOLTAGE ATL STARTERS

*The Benshaw medium voltage full voltage non reversing starter configuration is also available in a two high design. The two high design in a 92.5"H x 36"W x 36"D enclosure can provide individual motor control and protection of applications up to 333 Amps.*

*In each section, you will have a 400amp rated fault make load break disconnect switch, R rated motor fuses and a 400amp rated vacuum bottle contactor. Each section will have a separate 120V control section to house your choice of the Benshaw Next Gen (NX) control card or a third party motor protection relay.*

*The Benshaw dual high section shares the same horizontal bus design of all Benshaw MV products which allows for seamless integration into a complete solution.*

*These units are fully customizable to meeting requirements of your application.*



Dual-High MV ATL Starter

#### KEY ADVANTAGES

- Compact footprint - use for standalone, back-to-back and MCC/lineup applications
- Rugged, welded enclosure with chain drive flange handle mechanism

#### OPTIONAL

- Benshaw's advanced, digital Next Gen (NX) control and protection
- 50 KAIC (2600 or 4800 VAC) short circuit fault rated
- 45kV BIL
- Built-in self test features
- NEMA 1, UL 347 listed
- Bottom entrance standard
- Top entrance requires a side hat 20" or MLO

# MODEL SELECTOR / RATINGS

## DUAL-HIGH MEDIUM VOLTAGE ATL STARTERS

### DUAL-HIGH BASIC ATL

#### 2300V

| Model Number                | Volt | HP   | FLA | Dimensions (in.) |    |    | Approx.<br>Weight (lbs.) |
|-----------------------------|------|------|-----|------------------|----|----|--------------------------|
|                             |      |      |     | H                | W  | D  |                          |
| CFMVATLDH-1000/1000-2300-** | 2300 | 1000 | 240 | 92.5             | 36 | 36 | 2000                     |

#### 3300V

| Model Number                | Volt | HP   | FLA | Dimensions (in.) |    |    | Approx.<br>Weight (lbs.) |
|-----------------------------|------|------|-----|------------------|----|----|--------------------------|
|                             |      |      |     | H                | W  | D  |                          |
| CFMVATLDH-1500/1500-3300-** | 3300 | 1500 | 254 | 92.5             | 36 | 36 | 2000                     |

#### 4160V

| Model Number                | Volt | HP   | FLA | Dimensions (in.) |    |    | Approx.<br>Weight (lbs.) |
|-----------------------------|------|------|-----|------------------|----|----|--------------------------|
|                             |      |      |     | H                | W  | D  |                          |
| CFMVATLDH-2000/2000-4160-** | 4160 | 2000 | 266 | 92.5             | 36 | 36 | 2000                     |

### 2-HIGH GENIUS ATL

#### 2300V

| Model Number                  | Volt | HP   | FLA | Dimensions (in.) |    |    | Approx.<br>Weight (lbs.) |
|-------------------------------|------|------|-----|------------------|----|----|--------------------------|
|                               |      |      |     | H                | W  | D  |                          |
| CFMVNXATLDH-1000/1000-2300-** | 2300 | 1000 | 240 | 92.5             | 36 | 36 | 2000                     |

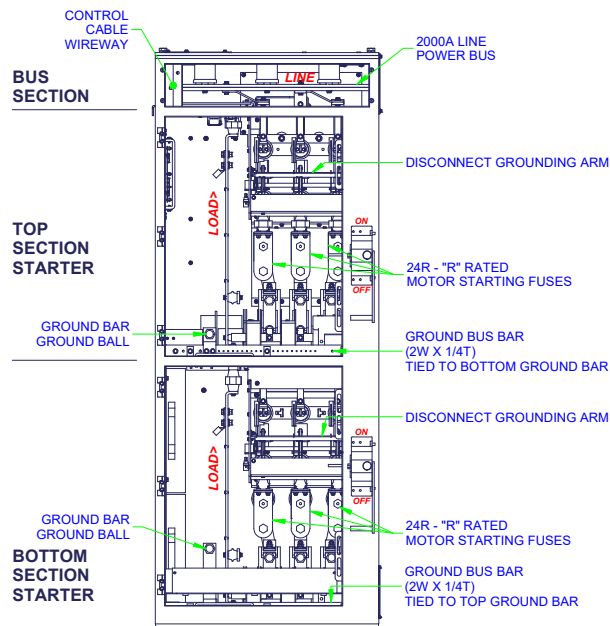
#### 3300V

| Model Number                  | Volt | HP   | FLA | Dimensions (in.) |    |    | Approx.<br>Weight (lbs.) |
|-------------------------------|------|------|-----|------------------|----|----|--------------------------|
|                               |      |      |     | H                | W  | D  |                          |
| CFMVNXATLDH-1500/1500-3300-** | 3300 | 1500 | 254 | 92.5             | 36 | 36 | 2000                     |

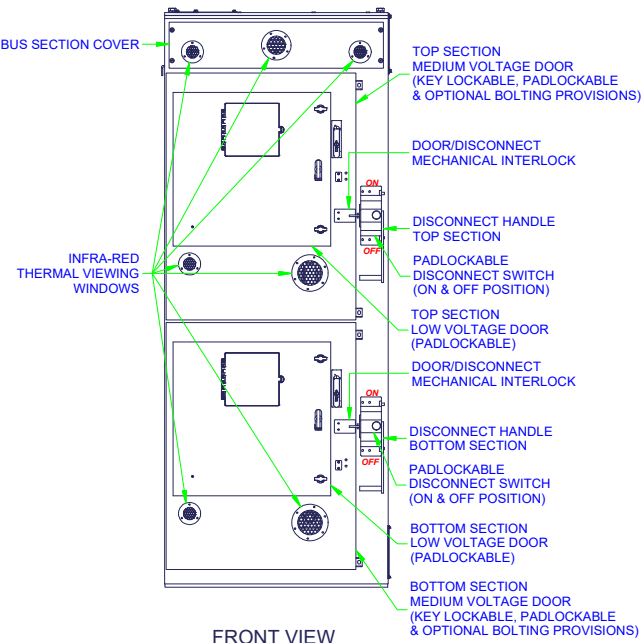
#### 4160V

| Model Number                  | Volt | HP   | FLA | Dimensions (in.) |    |    | Approx.<br>Weight (lbs.) |
|-------------------------------|------|------|-----|------------------|----|----|--------------------------|
|                               |      |      |     | H                | W  | D  |                          |
| CFMVNXATLDH-2000/2000-4160-** | 4160 | 2000 | 266 | 92.5             | 36 | 36 | 2000                     |

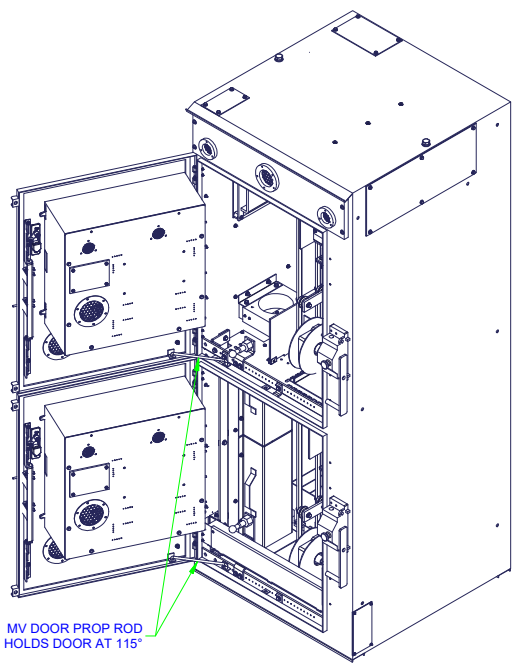
DUAL-HIGH ATL STARTER - DRAWINGS



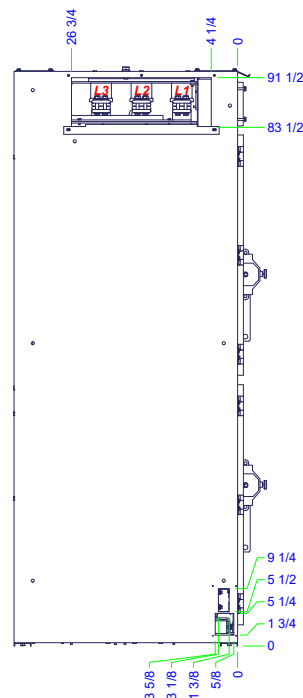
ALL DOORS REMOVED  
DISCONNECT FINGERGUARD FRONT FEM COVER  
REMOVED TO SHOW INTERNAL COMPONENTS



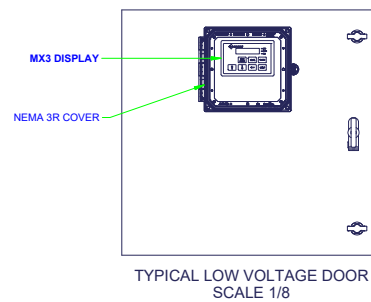
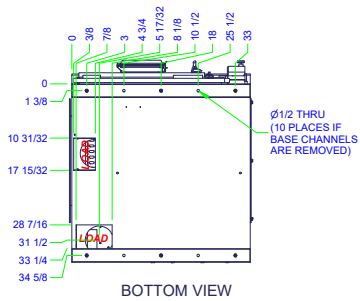
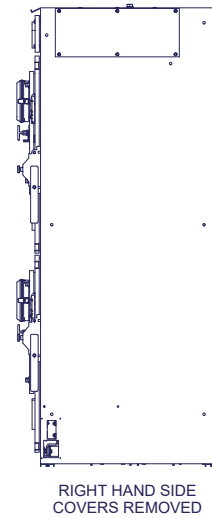
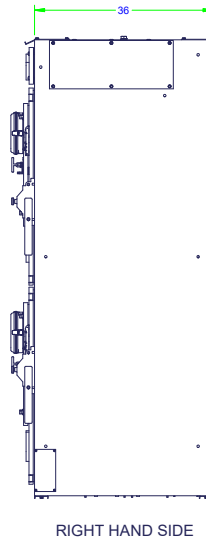
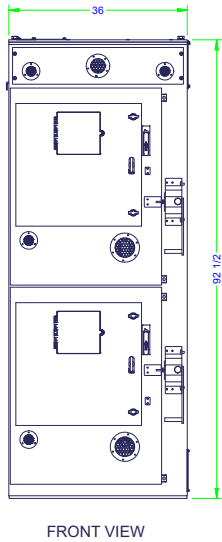
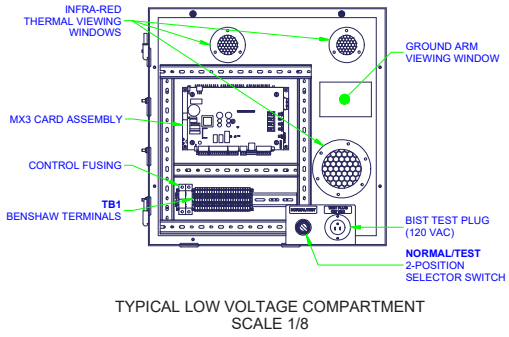
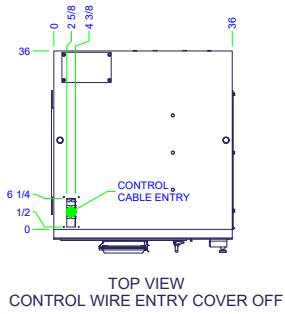
FRONT VIEW



MEDIUM VOLTAGE DOORS OPEN  
N.T.S.



LEFT SIDE VIEW  
TOP BUS, WIREWAY  
& GROUND BUS CUTOUTS

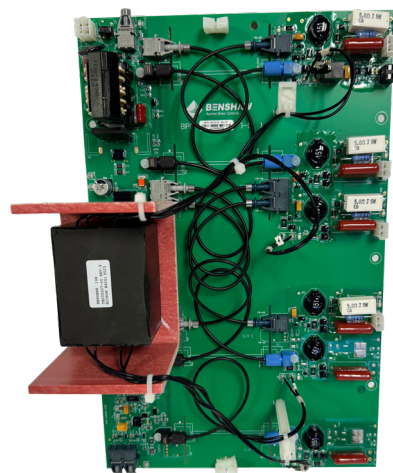


## SPARE PARTS KIT

Want to Minimize Downtime Loss of Production?

**Recommended Spare Parts Kits Include the Following:**

- Power phase/stack assembly (x1)
  - Includes the following packaged heat sink assembly:
    - Fiber optic SCR firing card
    - SCRs (x4)
    - DVDTS filter cards (x1)
- Main control board
- Voltage divider board (X1)
- “R” class line fuses (x3)
- Primary fuses for CPT (x2)
- Secondary fuses for CPT (x3)
- Door-mounted keypad
- Door-mounted pilot lights, pushbuttons and switches
- Overload relay
- Control relays



### 1000 HP STARTERS (4160V)

| MODEL NUMBER    | MOTOR AMPS  |
|-----------------|-------------|
| MVRNX-400101-SP | 46 to 55 A  |
| MVRNX-400102-SP | 56 to 75 A  |
| MVRNX-400103-SP | 76 to 90 A  |
| MVRNX-400104-SP | 91 to 131 A |

### 1700 HP AND 3000 HP STARTERS (4160V)

| MODEL NUMBER    | MOTOR AMPS   |
|-----------------|--------------|
| MVRNX-400107-SP | 46 to 55 A   |
| MVRNX-400108-SP | 56 to 75 A   |
| MVRNX-400109-SP | 76 to 90 A   |
| MVRNX-400110-SP | 91 to 131 A  |
| MVRNX-400111-SP | 132 to 180 A |
| MVRNX-400112-SP | 181 to 270 A |
| MVRNX-400113-SP | 271 to 360 A |

\*For amperage or voltage not shown, consult factory.

# MVDISC LOAD BREAK INTERRUPTER SWITCH

## MVDISC

Benshaw's free standing medium voltage load break interrupter switch is the latest design in medium voltage high current switching equipment for a wide range of applications. The fused interrupter switch provides an economical means of disconnect and short circuit protection of medium voltage loads such as transformers, single circuit or multi-circuit systems.

The switch is provided in a NEMA rated enclosure configured for use as a standalone unit or in an equipment line-up (MCC).

### KEY ADVANTAGES

- Bolts directly to Benshaw MCC line-up or starter
- UL labeled up to 4800 volts
- Available in 400, 600 and 1200 amp ratings
- Available up to 6600 volts
- 5kV Class E/R rated fuses
- Load break rated
- Compatible for use with Class E or R rated fuses

## MODEL SELECTOR / RATINGS

### 2300V

| MODEL NUMBER             | VOLT | AMPS | DIMENSIONS (IN.) |    |    | APPROX. WEIGHT (LBS.) |
|--------------------------|------|------|------------------|----|----|-----------------------|
|                          |      |      | H                | W  | D  |                       |
| CFMVDISC-24-400-2300-**  | 2300 | 400  | 92.5             | 24 | 30 | 1200                  |
| CFMVDISC-24-600-2300-**  | 2300 | 600  | 92.5             | 36 | 36 | 1200                  |
| CFMVDISC-24-1200-2300-** | 2300 | 1200 | 92.5             | 36 | 36 | 1200                  |

### 4160V

| MODEL NUMBER             | VOLT | AMPS | DIMENSIONS (IN.) |    |    | APPROX. WEIGHT (LBS.) |
|--------------------------|------|------|------------------|----|----|-----------------------|
|                          |      |      | H                | W  | D  |                       |
| CFMVDISC-24-400-4160-**  | 4160 | 400  | 92.5             | 24 | 30 | 1300                  |
| CFMVDISC-36-600-4160-**  | 4160 | 600  | 92.5             | 36 | 36 | 1300                  |
| CFMVDISC-36-1200-4160-** | 4160 | 1200 | 92.5             | 36 | 36 | 1300                  |

\*\* Note: Max E rated fuses per disconnect size:

400A = 200E

600A = 600E

1200A = 900E (with UL); 1200E (without UL)



**Benshaw, Inc.**

615 Alpha Drive  
Pittsburgh, PA 15238 United States  
Phone: +1 412-968-0100

**Benshaw Canada Controls, Inc.**

550 Bright Street East  
Listowel, Ontario N4W 3W3 Canada  
Phone: +1 519-291-5112

**AuCom**

*An Amconex Group Company*

- Germany
- New Zealand
- Dubai
- South Korea
- China

---

For more information and your local contact visit [www.benshaw.com](http://www.benshaw.com)

**BENSHAW**

*Applied Motor Controls*

AN AMCONEX GROUP COMPANY