



# Product Catalog



JANUARY 2024 EDITION

## Medium Voltage ATL Starters

*Rapid | Rugged | Global*



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

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- 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 ...

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# 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.)	LIST PRICE	
			H	W	D		NEMA 12	NEMA 3R
CFMVATL-150-2300**	150	36	92.5	24	30	1200	\$41,124	\$43,556
CFMVATL-500-2300**	500	120	92.5	24	30	1200	\$42,987	\$44,240
CFMVATL-750-2300**	750	180	92.5	24	30	1200	\$45,070	\$45,356
CFMVATL-1000-2300**	1000	240	92.5	24	30	1200	\$45,137	\$45,420
CFMVATL-1250-2300**	1250	300	92.5	24	30	1200	\$45,567	\$46,329
CFMVATL-1500-2300**	1500	360	92.5	24	30	1200	\$45,997	\$46,783

\*\* Insert appropriate option code as shown below:

NEMA 12 = 12

NEMA 3R = 3R

### 4600V

MODEL NUMBER	HP	FLA	DIMENSIONS (IN.)			APPROX. WEIGHT (LBS.)	LIST PRICE	
			H	W	D		NEMA 12	NEMA 3R
CFMVATL-300-4160-**	300	40	92.5	24	30	1300	\$40,254	\$42,686
CFMVATL-750-4160-**	750	99	92.5	24	30	1300	\$42,074	\$45,477
CFMVATL-1000-4160-**	1000	133	92.5	24	30	1300	\$42,675	\$45,690
CFMVATL-1250-4160-**	1250	166	92.5	24	30	1300	\$42,852	\$45,879
CFMVATL-1500-4160-**	1500	200	92.5	24	30	1300	\$44,157	\$46,266
CFMVATL-2000-4160-**	2000	266	92.5	24	30	1300	\$44,577	\$46,332
CFMVATL-2500-4160-**	2500	333	92.5	24	30	1300	\$44,787	\$46,555
CFMVATL-3000-4160-**	3000	360	92.5	36	30	1500	\$44,973	\$46,622

\*\* Insert appropriate option code as shown below:

NEMA 12 = 12

NEMA 3R = 3R

# FULL VOLTAGE ACROSS-THE-LINE STARTERS

## 'SMART' ATL STARTER

Benshaw 'Smart' Medium Voltage Across-The-Line (ATL) Starters are full voltage controllers for three-phase induction motors. 'Smart' starters include the Benshaw's MX<sup>3</sup> controller for advanced motor protection, metering, diagnostics and communication.

Combination 'Smart' starters are supplied in a free-standing enclosure. Enclosures are available in NEMA 12 and NEMA 3R configurations. Enclosures consists of two different 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 'Smart' starters are supplied with a load break/fault make disconnect isolation switch, Class "R" motor current limiting fuses, vacuum motor starting contactor and the 'SPE' SureProtex electronic overload protection.

## KEY FEATURES

The 'Smart' 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
- 'Smart' programmable keypad with MX<sup>3</sup> controller\*
- Start/stop push buttons (Via Keypad)
- Featured items via MX<sup>3</sup> Keypad
  - MX<sup>3</sup> Overload protection
  - Phase imbalance protection
  - Phase reversal protection
  - Phase loss protection
  - Test function/trip indication
  - Fault indication



'Smart' ATL Starter

## MX<sup>3</sup> CONTROL FEATURES

The "Smart" Medium Voltage "ATL" package includes the MX<sup>3</sup> controller for additional branch circuit monitoring motor protection, metering, diagnostics and communication. A sampling of these enhanced features includes:

### PROTECTION (ANSI STANDARD)

- 51 - Electronic motor overload, Class 1 to 40
- 86 — Overload lockout
- 48 — Adjustable up-to-speed timer (off; 0 to 300 seconds)
- 59/27 — Adjustable over/under voltage protection
- 46 — Adjustable line to average current imbalance
- 81 — Adjustable high and low frequency protection
- Single-phase protection
- 66 — Adjustable starts per hour (off or 1 to 20 starts)
- Adjustable time between starts (off or 1 to 600 minutes)
- Backspin timer (off or 1 to 200 minutes)
- 51 — Overcurrent detection (off or 50 to 800%) and time (0.1 to 90.0 sec. in 0.1 sec. intervals)
- 37 — Underrate detection (off or 10 to 100% and time (0.1 to 90.0 sec. in 0.1 sec. intervals)
- 51G — Ground fault detection (off or 1 to 100 amps) and time (0.1 to 90.0 sec. in 0.1 sec. intervals)
- Overcurrent, underrate and ground fault can each be set to trip or activate a relay
- 50 — Instantaneous electronic overcurrent trip

- 47 — Phase rotation selectable ABC, CBA or Ins (insensitive)
- 38/49 — Remote mountable RTD protection package, 8 or 16 RTD inputs (optional)

### CONTROL

- Local start/stop controls
- Emergency reset capability

### INPUT/OUTPUT AND DISPLAY

- Plain English operation via back-lit LCD display interface
- LCD and LED status and diagnostics (full fault annunciation)
- Programmable metering (amps, volts, frequency, overload, power factor, elapsed time, watts, VARs, watt hours, VA, current imbalance, ground fault current, RTD temperatures with optional RTD module)
- Programmable relay outputs
- Latched fault relay output
- Real-time clock
- Time stamped event recorder
- Password protection
- Battery backed-up starter parameters and lockout times



**MODEL SELECTOR / RATINGS****'SMART' ATL STARTER**

2300V

MODEL NUMBER	HP	FLA	DIMENSIONS (IN.)			APPROX. WEIGHT (LBS.)	LIST PRICE	
			H	W	D		NEMA 12	NEMA 3R
CFMVRMXATL-150-2300**	150	36	92.5	24	30	1200	\$43,877	\$44,086
CFMVRMXATL-500-2300**	500	120	92.5	24	30	1200	\$45,878	\$46,098
CFMVRMXATL-750-2300**	750	180	92.5	24	30	1200	\$47,961	\$48,181
CFMVRMXATL-1000-2300**	1000	240	92.5	24	30	1200	\$48,028	\$48,248
CFMVRMXATL-1250-2300**	1250	300	92.5	24	30	1200	\$48,257	\$48,478
CFMVRMXATL-1500-2300**	1500	360	92.5	24	30	1200	\$48,486	\$48,707

\*\* Insert appropriate option code as shown below:

NEMA 12 = 12

NEMA 3R = 3R

4600V

MODEL NUMBER	HP	FLA	DIMENSIONS (IN.)			APPROX. WEIGHT (LBS.)	LIST PRICE	
			H	W	D		NEMA 12	NEMA 3R
CFMVRMXATL-300-4160-**	300	40	92.5	24	30	1300	\$43,007	\$43,216
CFMVRMXATL-750-4160-**	750	99	92.5	24	30	1300	\$44,964	\$46,045
CFMVRMXATL-1000-4160-**	1000	133	92.5	24	30	1300	\$45,821	\$46,260
CFMVRMXATL-1250-4160-**	1250	166	92.5	24	30	1300	\$46,011	\$46,451
CFMVRMXATL-1500-4160-**	1500	200	92.5	24	30	1300	\$47,048	\$48,167
CFMVRMXATL-2000-4160-**	2000	266	92.5	24	30	1300	\$47,115	\$48,236
CFMVRMXATL-2500-4160-**	2500	333	92.5	24	30	1300	\$47,339	\$48,461
CFMVRMXATL-3000-4160-**	3000	360	92.5	36	30	1500	\$47,864	\$48,999

\*\* Insert appropriate option code as shown below:

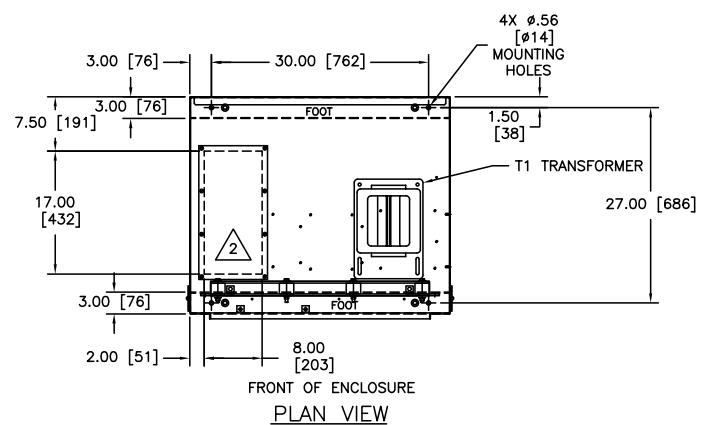
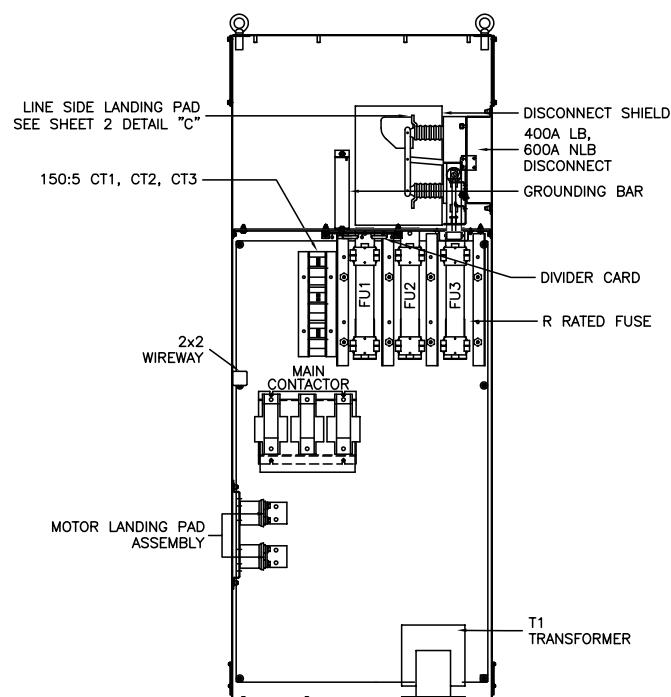
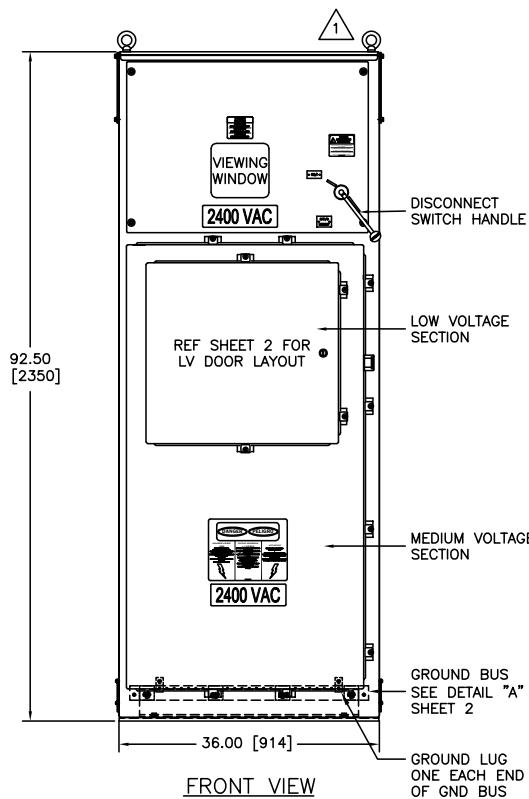
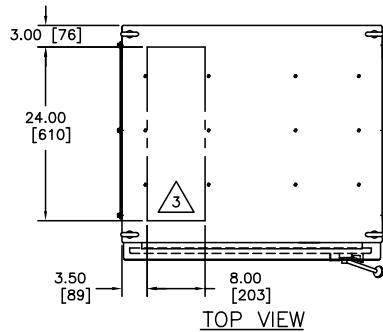
NEMA 12 = 12

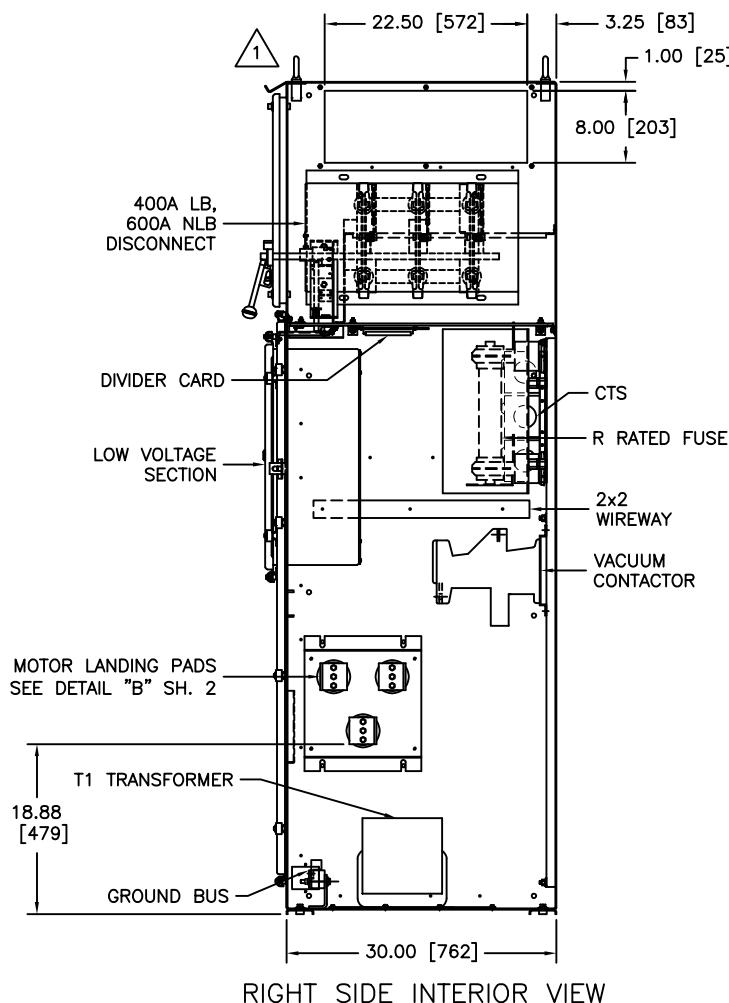
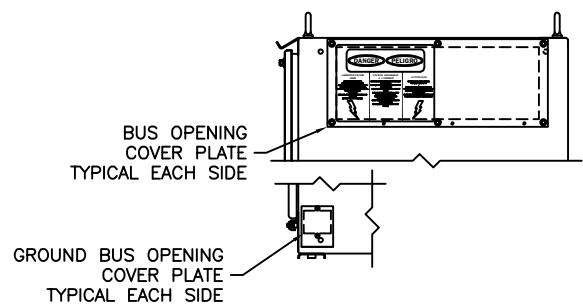
NEMA 3R = 3R



## NOTES

## 'SMART' 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 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

# 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.)	LIST PRICE	
			H	W	D		NEMA 12	NEMA 3R
CFMVATL20-500-2300-**	500	120	92.5	20	30	1200	\$73,348	\$75,548
CFMVATL20-750-2300-**	750	180	92.5	20	30	1200	\$77,015	\$79,325
CFMVATL20-1000-2300-**	1000	240	92.5	20	30	1200	\$80,682	\$83,103
CFMVATL20-1250-2300-**	1250	300	92.5	20	30	1200	\$81,416	\$83,940
CFMVATL20-1500-2300-**	1500	360	92.5	20	30	1200	\$82,149	\$84,778
CFMVATL20-1750-2300-**	1750	420	92.5	20	30	1200	\$82,175	\$85,462

\*\* Insert appropriate option code as shown below:

NEMA 12 = 12

NEMA 3R = 3R

### 4600V

MODEL NUMBER	HP	FLA	DIMENSIONS (IN.)			APPROX. WEIGHT (LBS.)	LIST PRICE	
			H	W	D		NEMA 12	NEMA 3R
CFMVATL20-300-4160-**	300	40	92.5	20	30	1200	\$72,688	\$74,868
CFMVATL20-750-4160-**	750	99	92.5	20	30	1200	\$76,322	\$78,612
CFMVATL20-1000-4160-**	1000	133	92.5	20	30	1200	\$79,957	\$82,355
CFMVATL20-1250-4160-**	1250	166	92.5	20	30	1200	\$80,684	\$83,185
CFMVATL20-1500-4160-**	1500	200	92.5	20	30	1200	\$81,410	\$84,016
CFMVATL20-2000-4160-**	2000	266	92.5	20	30	1200	\$81,774	\$84,472
CFMVATL20-2500-4160-**	2500	333	92.5	20	30	1200	\$81,515	\$84,205
CFMVATL20-3000-4160-**	3000	450	92.5	20	30	1200	\$82,330	\$85,047

\*\* Insert appropriate option code as shown below:

NEMA 12 = 12

NEMA 3R = 3R

# FULL VOLTAGE ACROSS-THE-LINE STARTERS

## COMPACT, 'SMART' 20" WIDE ATL STARTER

Benshaw 'Smart' 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 MX<sup>3</sup> controller for advanced motor protection, metering, diagnostics and communication. See page 7 for details.

### KEY FEATURES

The 'Smart' 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
- 'Smart' programmable keypad with MX<sup>3</sup> controller\*
- Start/stop push buttons (Via Keypad)
- Featured items via MX<sup>3</sup> Keypad
  - MX<sup>3</sup> Overload protection
  - Phase imbalance protection
  - Phase reversal protection
  - Phase loss protection
  - Test function/trip indication
  - Fault indication



20" Wide, 'Smart' ATL Starter

# MODEL SELECTOR / RATINGS

## 20" WIDE 'SMART' ATL STARTER

### 2300V

MODEL NUMBER	HP	FLA	DIMENSIONS (IN.)			APPROX. WEIGHT (LBS.)	LIST PRICE	
			H	W	D		NEMA 12	NEMA 3R
CFMVRMATL20-500-2300-**	500	120	92.5	20	30	1200	\$74,148	\$76,348
CFMVRMXATL20-750-2300-**	750	180	92.5	20	30	1200	\$77,815	\$80,125
CFMVRMXATL20-1000-2300-**	1000	240	92.5	20	30	1200	\$81,482	\$83,903
CFMVRMXATL20-1250-2300-**	1250	300	92.5	20	30	1200	\$82,216	\$84,740
CFMVRMXATL20-1500-2300-**	1500	360	92.5	20	30	1200	\$82,949	\$85,578
CFMRMXVATL20-1750-2300-**	1750	420	92.5	20	30	1200	\$82,975	\$86,262

\*\* Insert appropriate option code as shown below:

NEMA 12 = 12  
NEMA 3R = 3R

### 4600V

MODEL NUMBER	HP	FLA	DIMENSIONS (IN.)			APPROX. WEIGHT (LBS.)	LIST PRICE	
			H	W	D		NEMA 12	NEMA 3R
CFMVRMXATL20-300-4160-**	300	40	92.5	20	30	1200	\$73,488	\$75,668
CFMVRMXATL20-750-4160-**	750	99	92.5	20	30	1200	\$77,122	\$79,412
CFMVRMXATL20-1000-4160-**	1000	133	92.5	20	30	1200	\$80,757	\$83,155
CFMVRMXATL20-1250-4160-**	1250	166	92.5	20	30	1200	\$81,484	\$83,985
CFMVRMXATL20-1500-4160-**	1500	200	92.5	20	30	1200	\$82,210	\$84,816
CFMVRMXATL20-2000-4160-**	2000	266	92.5	20	30	1200	\$82,574	\$85,272
CFMVRMXATL20-2500-4160-**	2500	333	92.5	20	30	1200	\$82,665	\$85,355
CFMVRMXATL20-3000-4160-**	3000	450	92.5	20	30	1200	\$83,130	\$85,847

\*\* Insert appropriate option code as shown below:

NEMA 12 = 12  
NEMA 3R = 3R

# FULL VOLTAGE ACROSS-THE-LINE STARTERS

## TWO-HIGH MEDIUM VOLTAGE SOLID STATE 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 application 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 MX<sup>3</sup> control card or a third party motor protection relay.

The Benshaw two high section shares the same horizontal capabilities 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.



### KEY ADVANTAGES

- Two 350% - 30 seconds rated solid state starters
- Compact footprint - use for standalone, back-to-back and MCC/lineup applications
- Dual redundant configuration (switch-selectable emergency backup full voltage starters)
- Rugged, welded enclosure with chain drive flange handle mechanism
- Benshaw's advanced, digital 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

## TWO-HIGH MEDIUM VOLTAGE SOLID STATE STARTERS

### 2-HIGH BASIC ATL

#### 2300V

Model Number	Volt	HP	FLA	Dimensions (in.)			Approx. Weight (lbs.)	NEMA 12 List Price	NEMA 3R List Price
				H	W	D			
CFMVATL2H-1000/1000-2300-**	2300	1000	240	92.5	36	36	1900	\$60,141	CF

#### 3300V

Model Number	Volt	HP	FLA	Dimensions (in.)			Approx. Weight (lbs.)	NEMA 12 List Price	NEMA 3R List Price
				H	W	D			
CFMVATL2H-1500/1500-3300-**	3300	1500	254	92.5	36	36	1900	\$60,141	CF

#### 4600V

Model Number	Volt	HP	FLA	Dimensions (in.)			Approx. Weight (lbs.)	NEMA 12 List Price	NEMA 3R List Price
				H	W	D			
CFMVATL2H-2000/2000-4160-**	4160	2000	266	92.5	36	36	1900	\$60,141	CF

### 2-HIGH SMART ATL

#### 2300V

Model Number	Volt	HP	FLA	Dimensions (in.)			Approx. Weight (lbs.)	NEMA 12 List Price	NEMA 3R List Price
				H	W	D			
CFMVRMXATL2H-1000/1000-2300-**	2300	1000	240	92.5	36	36	1900	\$69,681	CF

#### 3300V

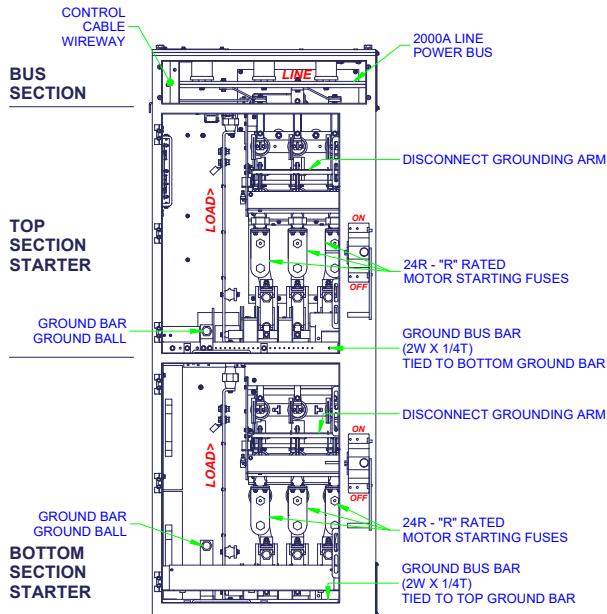
Model Number	Volt	HP	FLA	Dimensions (in.)			Approx. Weight (lbs.)	NEMA 12 List Price	NEMA 3R List Price
				H	W	D			
CFMVRMXATL2H-1500/1500-3300-**	3300	1500	254	92.5	36	36	1900	\$69,681	CF

#### 4600V

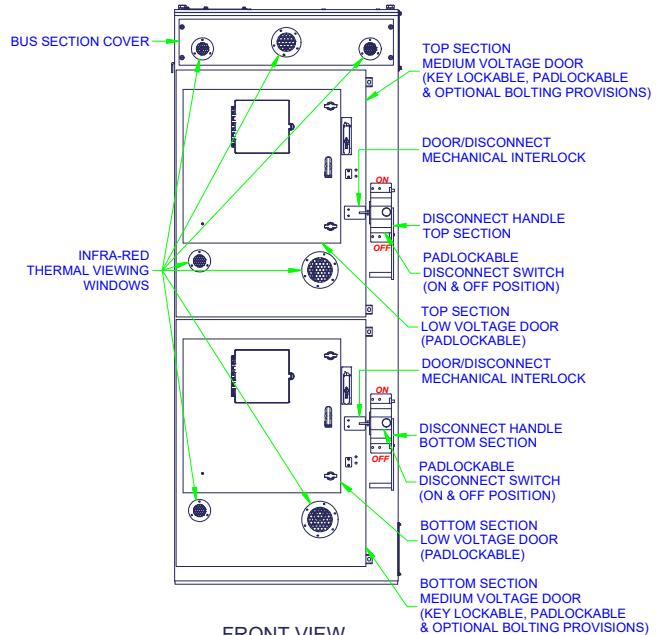
Model Number	Volt	HP	FLA	Dimensions (in.)			Approx. Weight (lbs.)	NEMA 12 List Price	NEMA 3R List Price
				H	W	D			
CFMVRMXATL2H-2000/2000-4160-**	4160	2000	266	92.5	36	36	1900	\$69,681	CF

CF - Consult Factory

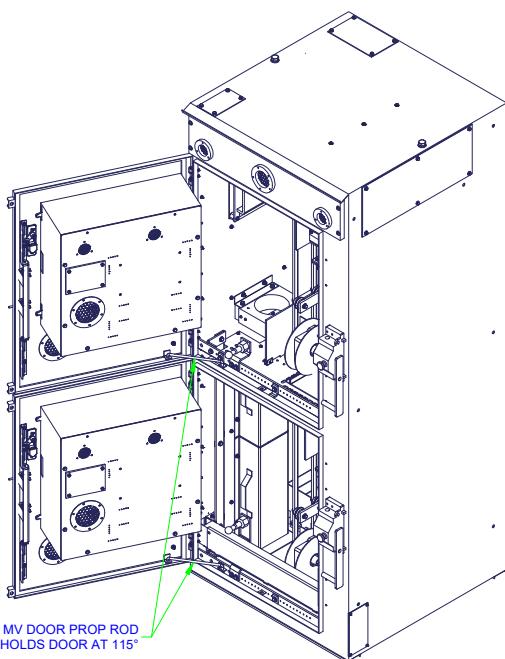
## TWO-HIGH ATL STARTER - DRAWINGS



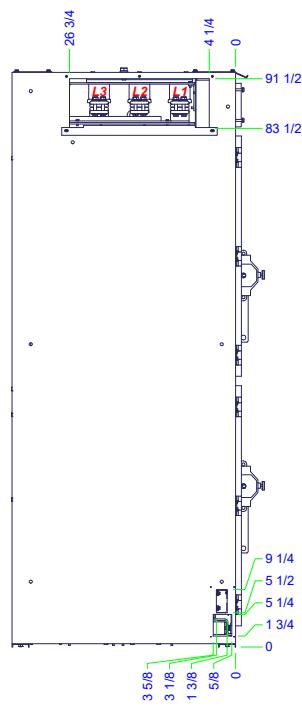
ALL DOORS REMOVED  
DISCONNECT FINGERGUARD FRONT FEM COVER  
REMOVED TO SHOW INTERNAL COMPONENTS



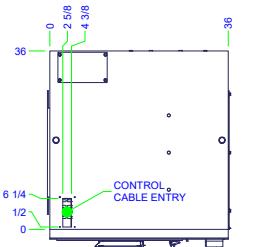
FRONT VIEW



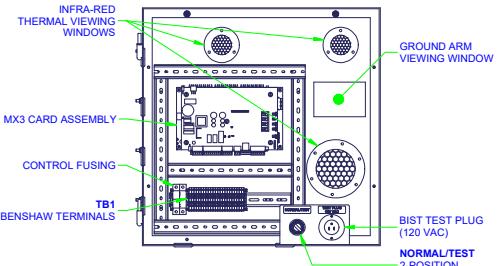
MEDIUM VOLTAGE DOORS OPEN  
N.T.S.



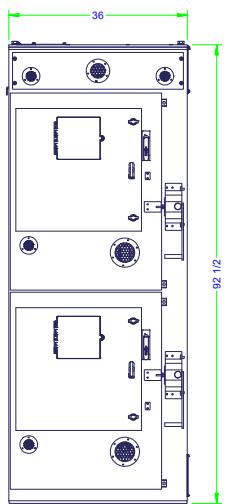
LEFT SIDE VIEW  
TOP BUS, WIREWAY  
& GROUND BUS CUTOUTS



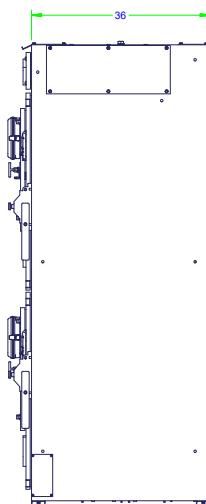
TOP VIEW  
CONTROL WIRE ENTRY COVER OFF



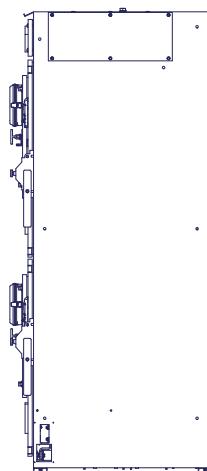
TYPICAL LOW VOLTAGE COMPARTMENT  
SCALE 1/8



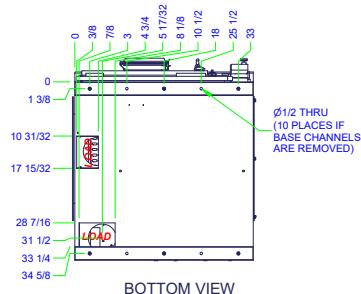
FRONT VIEW



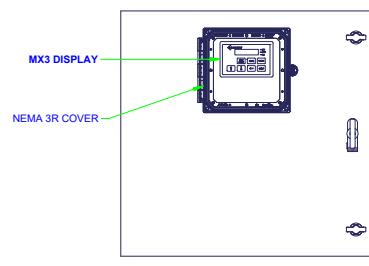
RIGHT HAND SIDE



RIGHT HAND SIDE  
COVERS REMOVED



BOTTOM VIEW



TYPICAL LOW VOLTAGE DOOR  
SCALE 1/8

## 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

### MVDISC

#### 2300V

MODEL NUMBER	VOLT	AMPS	DIMENSIONS (IN.)			APPROX. WEIGHT (LBS.)	LIST PRICE	
			H	W	D		NEMA 12	NEMA 3R
CFMVDISC-24-400-2300-**	2300	400	92.5	24	30	1200	\$31,906	\$34,109
CFMVDISC-24-600-2300-**	2300	600	92.5	36	36	1200	\$51,068	\$53,271
CFMVDISC-24-1200-2300-**	2300	1200	92.5	36	36	1200	\$54,740	\$56,942

#### 4600V

MODEL NUMBER	VOLT	AMPS	DIMENSIONS (IN.)			APPROX. WEIGHT (LBS.)	LIST PRICE	
			H	W	D		NEMA 12	NEMA 3R
CFMVDISC-24-400-4160-**	4160	400	92.5	24	30	1300	\$31,906	\$34,109
CFMVDISC-36-600-4160-**	4160	600	92.5	36	36	1300	\$51,068	\$53,271
CFMVDISC-36-1200-4160-**	4160	1200	92.5	36	36	1300	\$54,740	\$56,942

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

400A = 200E

600A = 600E

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

## Benshaw Group

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**BENSHAW**  
Applied Motor Controls