



# **BENSHAW**

Applied Motor Controls

AN AMCONEX GROUP COMPANY



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## Benshaw Motor Control System

Customized alternative to traditional low voltage MCC Lineups

*Rapid | Rugged | Global*



# Introduction

## ***Benshaw Motor Control Systems (BMCS)***

The Benshaw Motor Control System provides unmatched flexibility to tailor your system and to meet your exact operational demands. But that's just the beginning.

This unit stands at an impressive 92.5 inches high and offers customizable sections heights of 13, 26, 39, 52, 65 and 78 inches all configurable into widths of 24, 30, and 40 inches.

**Fully Welded Construction** - Built rugged and made to last, ensuring durability in the most demanding environments.

**Customizable Sections** - Choose from a range of motor controls, including ATL Starters, VFDs, Soft Starters, and other essential components to fit your specific needs.

Need it faster than the industry standard lead times of 40-80 weeks for traditional MCCs? Benshaw delivers in HALF that time, helping you keep operations moving smoothly and efficiently.

Take control. Take performance. Take **Benshaw**.



# BMCS Series

## Integrated Control Solutions

*Benshaw offers custom-configured motor control systems built to the UL 508A standard, tailored to fit your application needs. Our solutions include various combinations of full-voltage starters, solid-state starters, variable speed drives, and breaker feeders.*



### Features:

- UL 508/508A
- Up to 2000amp circuit breaker or MLO
- Floor mounted with one or more vertical sections
- Common horizontal bus
- Fixed mount devices
- Smallest section is 13" (92.5" high design)
- Welded construction
- NEMA 12, 3R, and 4

### Customizable to include:

- FVNR - ATL full voltage starters
- Soft starters
- Variable frequency drives
- Feeders
- Power distribution panels
- Incoming / Motor lug only
- Main breaker

### Ratings:

- Up to 42kA
- UL/cUL 508A
- CSA special inspection (optional)
- For 65kA - Consult Factory

### Available in two heights:

- 79" H
- 92.5" H

# BMCS Series

## 79" High Single Section



### 480 Volt Design

Bucket Width	Max Soft Starter	Max VFD	Max ATL	Max Breaker
24" Wide	150HP	50HP	500HP	1200 Amp
30" Wide	300HP	75HP	500HP	1600 Amp
40" Wide	500HP	125HP	500HP	2000 Amp

### 600 Volt Design

Bucket Width	Max Soft Starter	Max VFD	Max ATL	Max Breaker
24" Wide	200HP	75HP	600HP	1200 Amp
30" Wide	400HP	100HP	600HP	1600 Amp
40" Wide	600HP	150HP	600HP	2000 Amp

Notes:

VFD includes space for line and load reactors.

Fans and filters still need to be sized accordingly.

## 79" High Dual High Section



### 480 Volt Design

Bucket Width	Max Soft Starter	Max VFD	Max ATL	Max Breaker
24" Wide	75HP	10HP	150HP	400 Amp

### 600 Volt Design

Bucket Width	Max Soft Starter	Max VFD	Max ATL	Max Breaker
24" Wide	100HP	15HP	200HP	400 Amp

Notes:

No space for reactors or filters.

Limitation for ATL and soft starter is cable size over physical footprint.

# BMCS Series

## 92.5" Single Section



### 480 Volt Design

Bucket Width	Max Soft Starter	Max VFD	Max ATL	Max Breaker
24" Wide	150HP	50HP	500HP	1200 Amp
30" Wide	350HP	75HP	500HP	1600 Amp
40" Wide	500HP	125HP	500HP	2000 Amp

### 600 Volt Design

Bucket Width	Max Soft Starter	Max VFD	Max ATL	Max Breaker
24" Wide	200HP	75HP	600HP	1200 Amp
30" Wide	400HP	100HP	600HP	1600 Amp
40" Wide	600HP	150HP	600HP	2000 Amp

**Notes:**

VFD includes space for line and load reactors.

Fans and filters still need to be sized accordingly.

## 92.5" Two High Section



### 480 Volt Design

Bucket Width	Max Soft Starter	Max VFD	Max ATL	Max Breaker
24" Wide	100HP	10HP	150HP	400 Amp

### 600 Volt Design

Bucket Width	Max Soft Starter	Max VFD	Max ATL	Max Breaker
24" Wide	125HP	15HP	200HP	400 Amp

**Notes:**

No space for reactors or filters.

Limitation for ATL and soft starter is cable size over physical footprint.

# BMCS Series

## WHY SPECIFY BENSCHAW'S BMCS - BENSCHAW MOTOR CONTROL SYSTEM

### Lead Time:

Very long lead times for traditional MCCs - some as long as 40-80 weeks, Benshaw offers the BMCS with 20-24 weeks lead time.

### Design Advantages:

The BMCS units are solidly built to UL/cUL 508A and CSA standards. And, like all the other equipment Benshaw builds, they are heavy duty rated for reliable operation. So, if going into a mine, a cement plant, or an aggregate plant, the BMCS is designed for these and other demanding environments.

### Better Value for Your Money:

The BMCS cost of ownership is superior to that of a traditional MCC due to its rugged design. In contrast to traditional Erector-Set style MCC cabinets, the durable, welded cabinet construction of the BMCS offers better value for your money.

### Traditional MCC vs a BMCS:

The primary difference between a traditional MCC (Motor Control Center) and a BMCS (Benshaw Motor Control System) is the construction. An MCC has removable buckets which can be removed and worked on remotely. The BMCS has fixed gear on a metal backplane and it is not un-pluggable. However, like an MCC, each section of the BMCS can be isolated by a disconnect switch, preventing access to other sections during service.

### Installation Considerations:

Install a BMCS anywhere you would use an MCC. Especially if lead time, heavy duty construction and customization are important.

### Anything Goes:

Customize your BMCS with nearly anything you want: Full Voltage Starters, Soft Starts, Variable Frequency Drives. Circuit Breaker Feeders, Main Breakers, Power Distribution Panels, Power or Motor Landing Pads ... and more.

# Technical Support Services

*Our technical support team is available 24/7 to answer questions and solve pressing issues before, during and after the sale.*

Benshaw's knowledgeable Technical Support team help you evaluate both current and future motor control system requirements and develop a sound strategy for retrofit, upgrade or replacement. We can also help you submit a Request for Service Quotation. All services are performed by trained, experienced service technicians using the latest engineering, diagnostics and testing equipment.

- Retrofits
- Field service
- Factory service
- Technical training support
- Spare/repair parts
- Maintenance

