

# SIEMENS 8PX3 MCC



**Take Your MCC SIRIUS'ly**

# Agenda

- **8PX History**
- **Product**
  - **Structure**
  - **Starters and Feeders**
- **Success Stories**

# 8PX History

- **8PX MCC product line was introduced in approximately 1985.**
- **MCC was manufactured in LaSalle, QC and Edmonton, AB**
- **Currently Manufactured in Edmonton, Alberta, Canada**

# Front and Side Views

- **Types Of Enclosures**
- **EEMAC 1, 1A, 2, & 12 Enclosures**
- **MCC is available in both FOB (Front Of Board) and BTB (Back To Back ) style.**
- **With FOB style a maximum of 7 Size1 starters can be installed.**
- **With BTB style a maximum of 13 size 1 starters can be installed.**
- **FOB MCC depth is 416MM.**
- **BTB MCC depth is 514mm.**
- **Removable Side Sheets**
- **Channel Sills supplied as standard**
- **Lifting Angles for each line-up**



# Open Structure



- Main bus rating up to 3000A
- All bus is Tin plated Copper
- Vertical bus is rated 550A for FOB and 765A for BTB
- Main and Vertical bus bracing is 22kA, 42kA, 65kA and 100kA
- Main bus is located at the top of the MCC structure
- Structure is UB4 rated

## NEUTRAL BUS

- A Neutral bus mounted parallel to the Main bus is available as an option.

# INCOMING

- **Flexibility to adapt to customer's needs for various different types**
  - **Top Incoming Cables**
  - **Bottom Incoming Cables**
  - **Main Breaker / Fuse**
  - **Incoming Tap Box (Top or Side)**
  - **Cable Pull Section**
  - **Transition Section**
  - **Service Entrance Section**



# Open Units in Structure

## 8PX3 COMPONENTS

- 7 Size 1 or Size 2 FVNR Starters within one vertical section.
- 13 size 1 or size 2 starters can be installed in a BTB section

## Vertical Wireway

- 8PX3 wireway is one of the most spacious in the industry, providing room for large number of control and power circuits.
- Control wiring tie downs are located on the buffer plates. Up to 7 locations
- Quarter-turn screws on doors



# STARTER AND FEEDER UNITS

## Starter Ratings

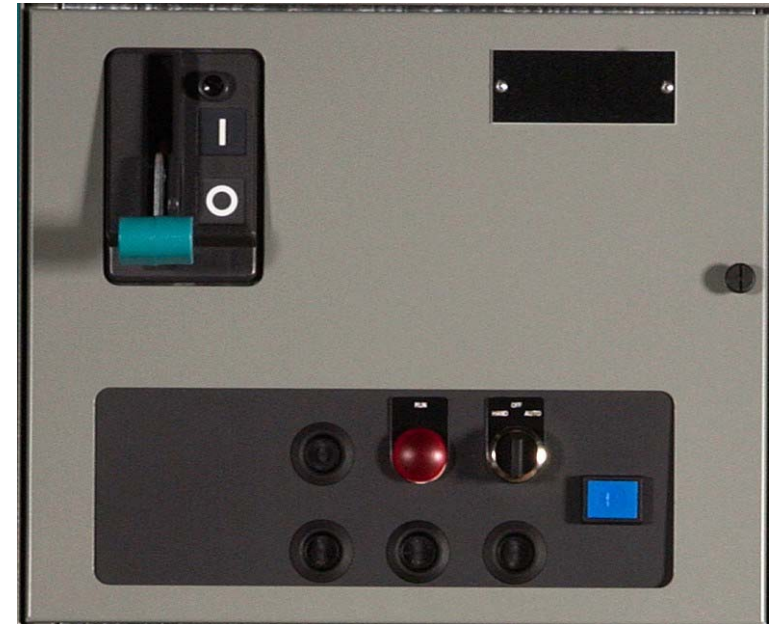
### NEMA and HP ratings Available

- All ratings are 600V
- With Fuses 100kA
- With ED6 MCP 42kA
- With Current limiting breakers 65kA
- Up to Size 4 are Draw-out
- Size 5 and 6 are fixed mounted
- Drives up to 100hp
- RVSS up to 400hp
- Drawout units have high flexibility for
  - Interchange
  - Compactness
  - Maximum of stability
  - Easy access for maintenance and inspection

# STARTER AND FEEDER UNITS

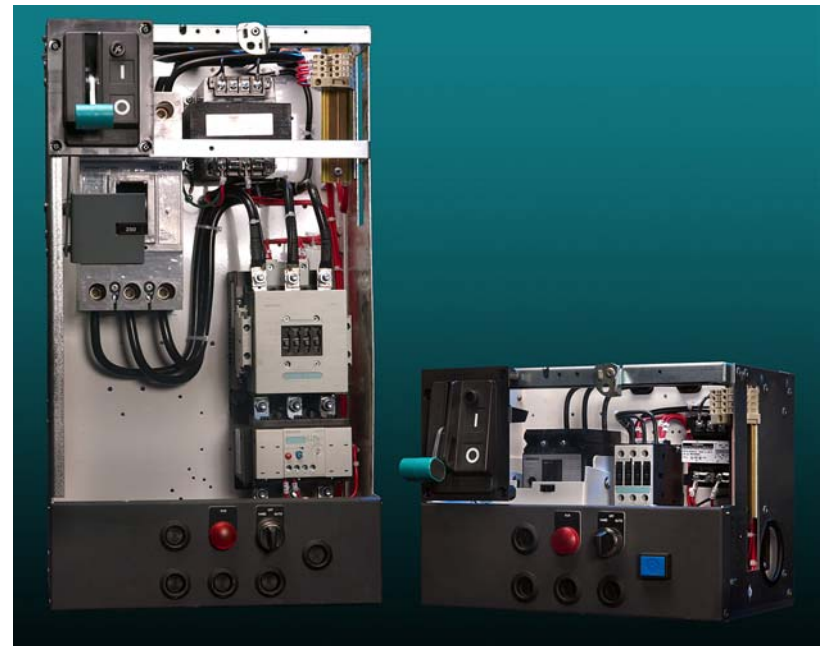
## Operating Handle

- Engineered and solidly built for industrial applications.
- The vertical operating handle responds to the exact requirements of the industrial user.
- Bright and positive indication of the handle position is visible with the compartment door open.
- Defeater mechanism on the operating handle
- Up to 6 Pilot Devices and 1 reset button can be mounted on the travis plate



# Starter Units

- A manual latch on each drawout unit provides secure locking in the engaged position
- Ample space within the units
- All backplates are painted white.
- Globally accepted SIRIUS contactors and overloads



# Starter Units - Open



**Size 1**

- Ample Space within unit
- Back Plates – White
- Sturdy Construction
- Units totally enclosed with buffer plates



**Size 3**



**Size 4**

# Breaker and Fuse Operator

- SE&A Frame Breakers
- 100kA @ 600V Feeders
- Knife Blade Switch up to 400A
- 100kA @ 600V – Feeders and Starters
- Type ‘C’, ‘J’ & ‘R’ Fusing
- Switch Made In Canada



# Bus Stab & Handle Operator

- **Copper Alloy**
- **Power Wiring crimped to stabs within housing**
- **Self-aligning stabs**
- **Bright Colour**
- **ON-OFF-Tripped**
- **Breaker and Fusible**
- **Defeater Mechanism**
- **Interlock in ON position**



# Success Stories

<b>Project Name</b>	<b>Number of Sections</b>
■ <b>CMPC Celulosa – Chile</b>	<b>500</b>
■ <b>CMPC Arauco – Chile</b>	<b>500</b>
■ <b>Alcan – Canada</b>	<b>1000</b>
■ <b>Hibernia Oil Platform - Canada</b>	<b>1000</b>
■ <b>Syncrude – Canada</b>	<b>1000</b>
■ <b>Diashowa – Canada</b>	<b>500</b>