

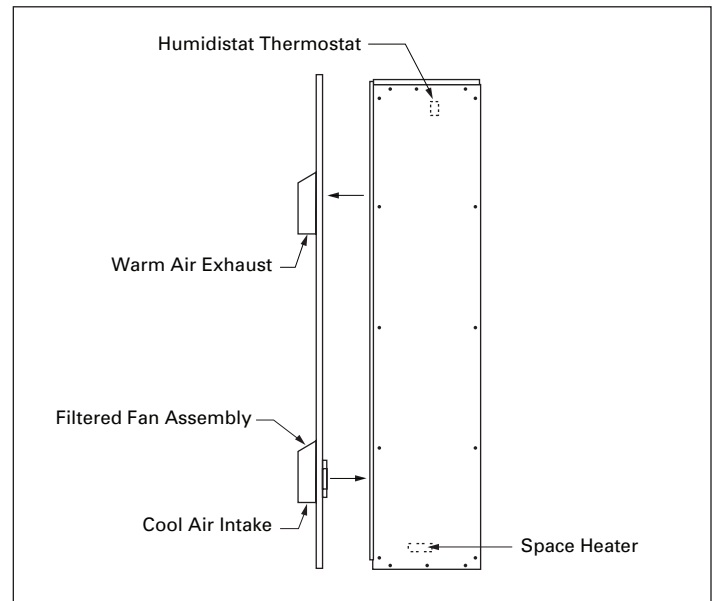
NEMA 3R low voltage motor control centers with adjustable frequency drives



NEMA 3R Drive MCC Section
External View



NEMA 3R Drive in MCC
Unit Door-Mounted Fans with Filters



NEMA 3R Drive MCC Section
Environmental Controls

Product description

Eaton's NEMA® 3R motor control centers (MCCs) provide a convenient method for grouping motor control, such as adjustable frequency drives and the associated distribution equipment, in a weatherproof enclosure for outdoor applications.

Eaton's industry-leading SVX9000 adjustable frequency drives have a distinguished history of being modular, configurable, compact and equipped with best-in-class features. These drives are now available integral to NEMA 3R, non-walk-in MCC assemblies for outdoor applications.

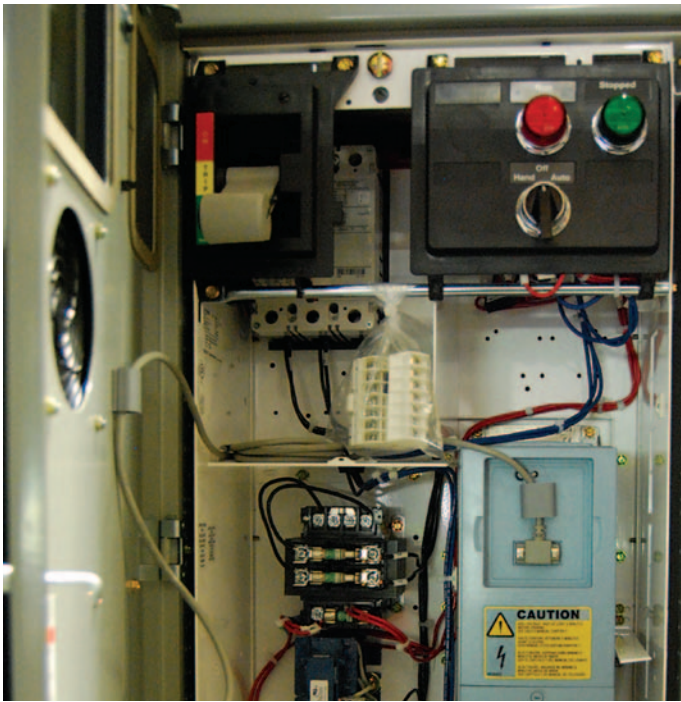
Features and benefits

Environmental controls

- Door-mounted fans cycle air in and out of MCC enclosure for the drive. The fans are controlled by a factory-preset thermostat. The thermostat operation is a function of the internal MCC enclosure temperature
- The door-mounted fans keep the enclosure in a positive-pressure ventilated environment and remove any contaminants internal to the enclosure
- Each door-mounted fan assembly is equipped with filters to prevent external contaminants from entering the enclosure
- Space heaters are provided to protect drive electronics from condensation. The space heaters are controlled by a factory-preset humidistat. The humidistat operation is a function of the internal MCC enclosure humidity level
- A separate 120V control power transformer is dedicated to the environmental controls



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Typical MCC Drive Unit

SVX9000 drive features

Modular design

- Interchangeable control units within frame sizes
- Software, control panels, I/O and communication cards are common throughout the SVX9000 product line
- Separate power and control modules enable easy installation and reduced spare parts requirements
- Compact footprint
- Control logic can be powered from an external power source to enable testing, training and going live whenever needed
- Keypad gives the user full view into the drive and real-time running parameters

Communication flexibility

- Up to five plug-and-play I/O cards, each with unique input and output configurations, can be installed
- Drive can be configured for all major communication protocols, making it easy to communicate with all commonly used control systems

Easy to configure and operate

- Quick start-up wizard enables programming and testing the drive even when the drive is unpowered
- Simple copy/paste functions in drive software streamline the configuration process

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Ratings and standards

- Non-walk-in NEMA 3R enclosure for protection against rain, sleet and snow in outdoor applications
- Tested to ANSI/IEEE® C37.24-1986 recommended solar loading guidelines for outdoor switchgear enclosures (with the assumption of 40°C ambient)
- Temperature rating of 14–104°F (–10 to 40°C); in hotter climates (greater than 40°C ambient) a sun-shield is recommended for shading the NEMA 3R MCC structure
- UL® 845 listed
- Up to 2500A horizontal bus, up to 1200A vertical bus; 65 and 100 kAIC ratings
- 480 Vac, three-phase, three-wire or four-wire

SVX9000 drive sizes available in NEMA 3R MCCs ①

HP ②	Rated Amps	Frame Size
1	2.2	FR4 ③
1.5	3.3	FR4 ③
2	4.3	FR4 ③
3	5.6	FR4 ③
5	7.6	FR4 ③
7.5	12	FR5 ④
10	16	FR5 ④
15	23	FR5 ④
20	31	FR6 ④
25	38	FR6 ④
30	46	FR6 ④
40	61	FR7 ④
50	72	FR7 ④
60	87	FR7 ④
75	105	FR8 ④
100	140	FR8 ④
125	170	FR8 ④
150	205	FR9 ④
200	245	FR9 ④

① Drives available in thermal magnetic breaker, motor circuit protector and fused disconnect configurations.

② Drives shown in the table are rated for constant torque application.

③ Up to two FR4 Frame drives can be provided in a NEMA 3R MCC section.

④ One drive per NEMA 3R MCC section for FR5, FR6, FR7, FR8 and FR9 Frame drives.



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