



CENTERLINE[®] Motor Control Centers NEMA Type 3R Enclosures

Application

NEMA Type 3R enclosures are intended for outdoor use and designed to resist damage from external ice formation and protect motor control centers (MCCs) from rain. NEMA Type 3R enclosures are made to meet rod entry, rain, external icing and rust-resistance design tests. They are not intended to protect against conditions such as dust, internal condensation or internal icing. The enclosure is painted high gloss white. Optional ventilation can be furnished.

Construction

Figure 1 NEMA 3R Enclosure



- Outer sheeting is constructed around a 20" (508mm) deep NEMA Type 1 inner section(s). The outer sheeting increase the overall depth by 10" (254mm) and the width by 5" (127mm).
- The interior section(s) can be 20" (508mm), 25" (635mm) or 30" (762mm) wide. For overall enclosure dimensions, refer to page 3.
- The outer door and the MCC unit door provide two-door protection and isolation for electrical equipment.
- Back-to-back construction is not available.
- External mounting channels are supplied on all enclosures.
- Lifting angles are optional.
- Built to ship in groups of one, two or three sections with a maximum shipping width of 75" (1905mm). Enclosures 30" (762mm) or wider must be shipped individually.
- Designed for bottom entry and exit of all cables and wires (power, load, control). Top cable entry and exit are possible. Conduit fittings approved for NEMA Type 3R enclosures must be used for bottom or top entry.

NEMA Type 3R enclosures installed in environments of extreme temperatures and high humidity may require additional care. In cases of extreme heat or direct sunlight, a sunscreen or roof may have to be placed over the enclosure to maintain the necessary equivalent ambient air temperature of 40°C (104°F) or less.

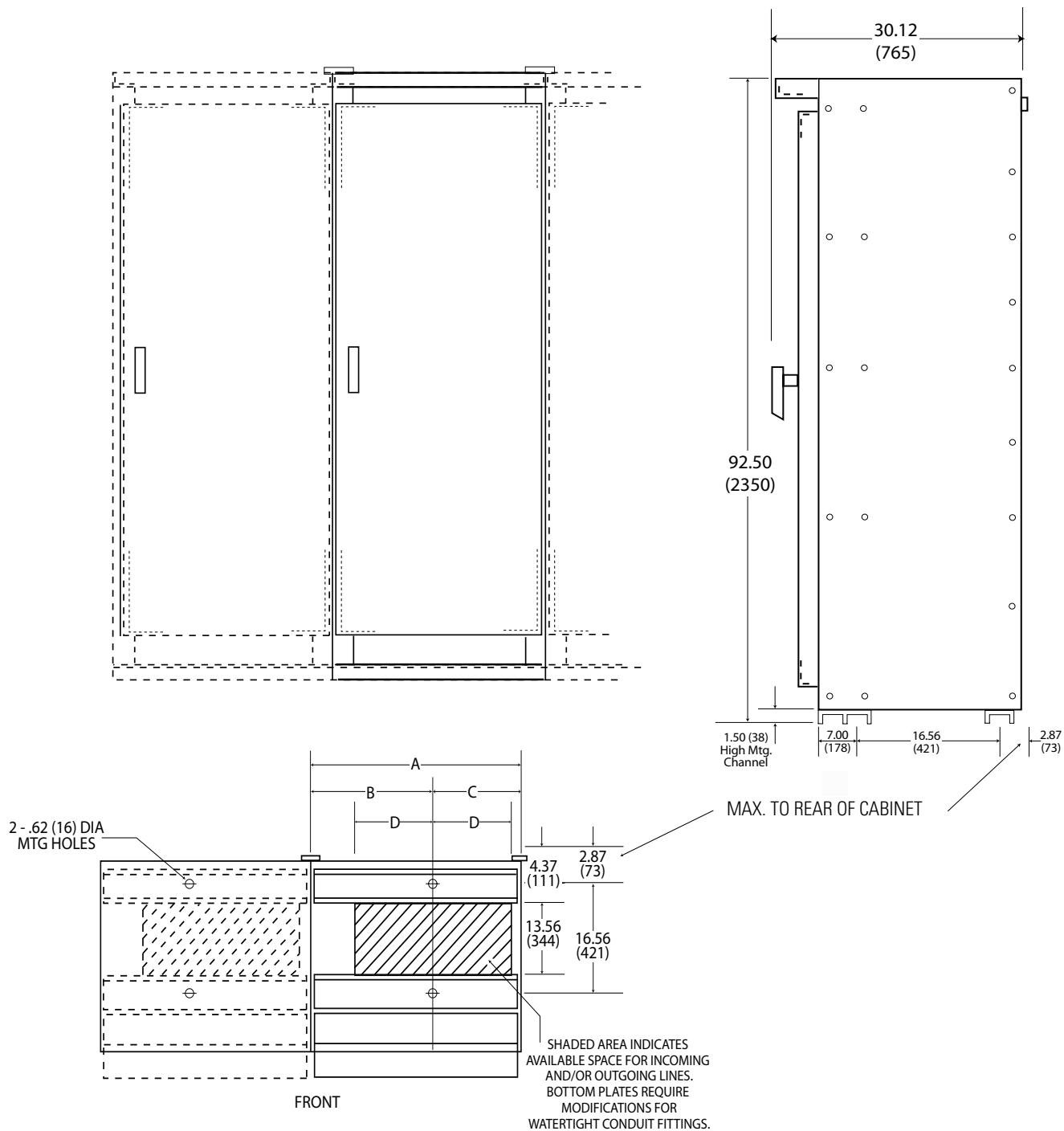
In cases of low temperature, a space heater should be installed in each section. This is especially important when starters in the MCC are not in continuous operation and are de-energized for long periods of time.

In many cases this equipment arrives on site long before it is installed. To help reduce damage to the electrical components from condensation, space heater kits for field installation can be ordered from your local Rockwell Automation sales engineer. The kits consist of non-adjustable thermostat (set at 65°F or

18.3°C) and a space heater (120 Volt, 200 Watt) complete with wire and instruction sheet. The space heater and thermostat can be installed and wired at the factory. The contractor who places the section(s) in storage or installs them is responsible for connecting the space heater and thermostat in each section to a 120 Volt single phase source. Once the sections are installed and operational, the thermostat and space heater can be powered by a Bulletin 2196 or 2197 transformer unit.

All space factors and options for plug-in units remain the same as those listed in the CENTERLINE Motor Control Centers Catalog, publication number 2100-CA001x-EN-P. For more information, specific applications and availability contact your local Rockwell Automation sales engineer or Allen-Bradley distributor.

Figure 2 Floor Plan Dimensions



Interior Section Width	A		B		C		D	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm
20.00	25.00	(635)	13.75	(349)	11.25	(286)	8.87	(225)
25.00	30.00	(762)	16.25	(413)	13.75	(349)	11.37	(289)
30.00	35.00	(889)	18.75	(476)	16.25	(413)	13.87	(352)

Allen-Bradley

www.rockwellautomation.com

Corporate Headquarters

Rockwell Automation, 777 East Wisconsin Avenue, Suite 1400, Milwaukee, WI, 53202-5302 USA, Tel: (1) 414.212.5200, Fax: (1) 414.212.5201

Headquarters for Allen-Bradley Products, Rockwell Software Products and Global Manufacturing Solutions

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation SA/NV, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, 27/F Citicorp Centre, 18 Whitfield Road, Causeway Bay, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

Headquarters for Dodge and Reliance Electric Products

Americas: Rockwell Automation, 6040 Ponders Court, Greenville, SC 29615-4617 USA, Tel: (1) 864.297.4800, Fax: (1) 864.281.2433

Europe/Middle East/Africa: Rockwell Automation, Brühlstraße 22, D-74834 Elztal-Dallau, Germany, Tel: (49) 6261 9410, Fax: (49) 6261 17741

Asia Pacific: Rockwell Automation, 55 Newton Road, #11-01/02 Revenue House, Singapore 307987, Tel: (65) 6356-9077, Fax: (65) 6356-9011

Publication 2100-TD025A-EN-P—January 2004

Supersedes Publication 2100-2.3.3 - January 1998

© 2004 Rockwell International Corporation. Printed in the U.S.A.