

CENTERLINE® Motor Control Centers

NEMA Type 3R Enclosures

Product Data

Application

NEMA Type 3R enclosures are intended for outdoor use and designed to resist damage from external ice formation and protect motor controls from falling 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. Ventilation can be furnished as an option.

Construction

The Allen-Bradley Bulletin 2100 low voltage Motor Control Center (MCC) NEMA 3R enclosure is essentially outer sheeting, that is assembled to a 20" (508 mm) deep NEMA Type 1 section(s). This outer sheeting increases the standard width by approximately 5" (127 mm). NEMA Type 3R enclosures are available for interior sections of 20" (508 mm), 25" (635 mm) or 30" (762 mm) wide. The standard depth is increased by 10" (254 mm), from 20" (508 mm) to 30" (762 mm). All standard plug-in units as shown in Allen-Bradley 2100 Product Publication 2100-3.0 can be furnished in NEMA Type 3R enclosures. Lifting angles are optional. Refer to the dimension drawing on the reverse side.

The NEMA Type 3R enclosure is built to be shipped in groups of one (1), two (2) or three (3) sections with a maximum shipping width of 75" (1905 mm). Thus NEMA 3R enclosures of 25" (635 mm) in width can be shipped in groups of one, two or three sections. Enclosures of 30" (762 mm) or more must be shipped individually.

NEMA Type 3R enclosures are designed for bottom entry and exit of power, load and control cables and wires. In addition, cable entry can be made at the top of the section. Conduit fittings approved for watertight service 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 or less.

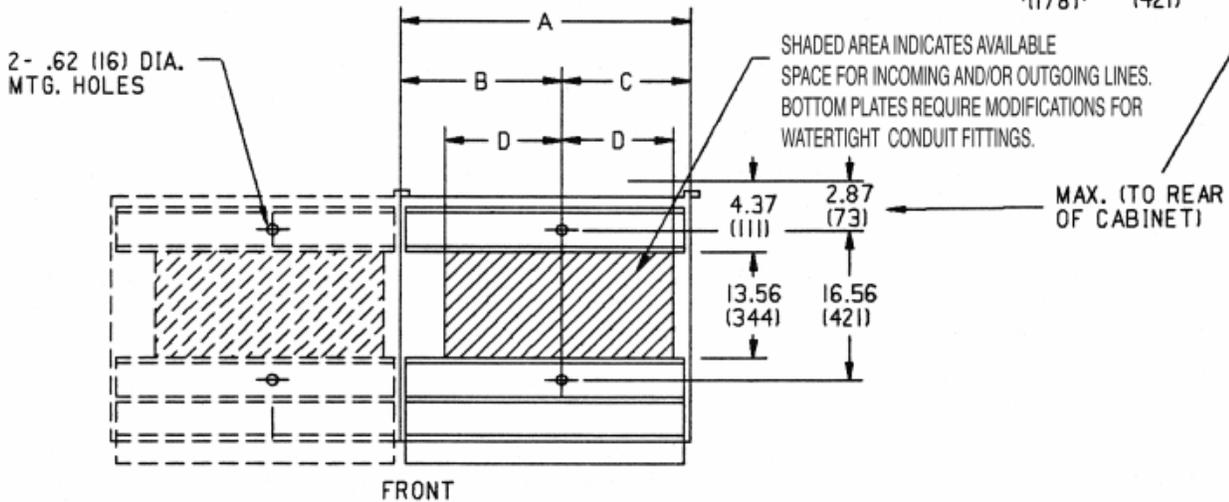
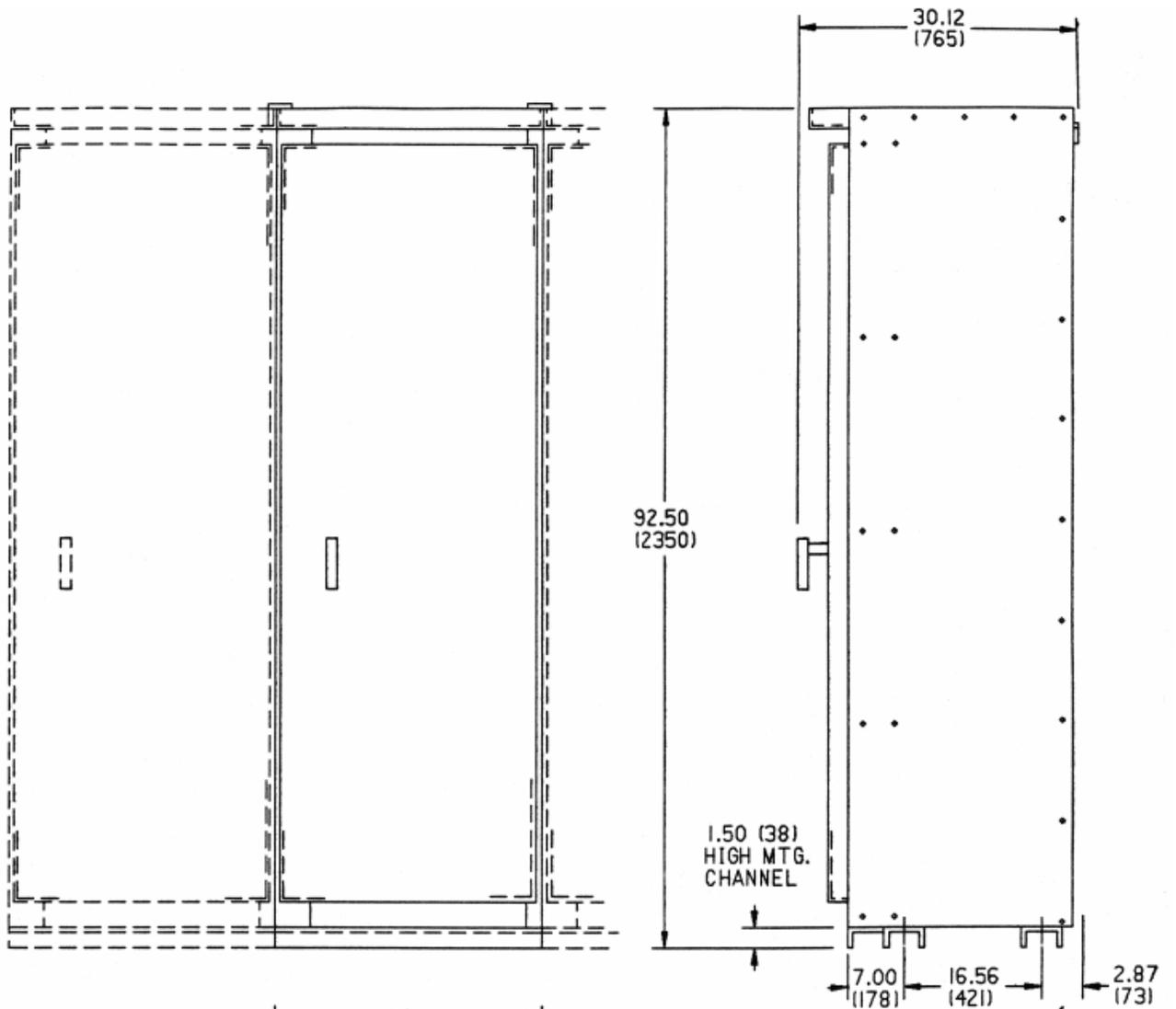
In cases of low temperature, a space heater should be installed in each section. This is especially important when starters in the MCC are not in continuous operation and are de-energized for long periods of time.

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 a non-adjustable thermostat (set at 65°F) 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 will be 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.

For more information, specific applications, and availability contact your local Rockwell Automation sales engineer or Allen-Bradley distributor.



NEMA 3R Enclosure



FLOOR PLAN

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)

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