

PART 1 - GENERAL

- 1.1 Section Includes .1 Materials for moulded-case circuit breakers, circuit breakers, and ground-fault circuit-interrupters
- 1.2 Related Sections .1 Section 01 33 00 - Submittal Procedures.
.2 Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- 1.3 References .1 Canadian Standards Association (CSA International).
.1 CSA-C22.2 No. 5-02, Moulded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures (Tri-national standard with UL 489, tenth edition, and the second edition of NMX-J-266-ANCE).
- 1.4 Submittals .1 Submit product data in accordance with Section 01 33 00 - Submittal Procedures.
.2 Include time-current characteristic curves for breakers with ampacity of 100 A and over or with interrupting capacity of 22,000 A symmetrical (rms) and over at system voltage.
- 1.5 Waste Management and Disposal .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
.2 Collect and separate for disposal paper, plastic, polystyrene and corrugated cardboard packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
.3 Separate for reuse and recycling and place in designated containers metal and plastic waste in accordance with Waste Management Plan.
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PART 2 - PRODUCTS

- 2.1 Breakers
General
- .1 Moulded-case circuit breakers, circuit breakers, and ground-fault circuit-interrupters: to CSA C22.2 No. 5.
 - .2 Bolt-on moulded case circuit breaker: quick- make, quick-break type, for manual and automatic operation with temperature compensation for 40 degrees C ambient.
 - .3 Common-trip breakers: with single handle for multi-pole applications.
 - .4 Magnetic instantaneous trip elements in circuit breakers to operate only when value of current reaches setting.
 - .1 Trip settings on breakers with adjustable trips to range from 3-10 times current rating.
 - .5 Circuit breakers with interchangeable trips as indicated.
 - .6 Circuit breakers to have symmetrical rms interrupting capacity rating as indicated on the drawings. Minimum rating of 10,000 kA.
 - .7 All circuit breakers to be new and purchased through an authorized dealer.
- 2.2 Thermal
Magnetic Breakers
- .1 Moulded case circuit breaker to operate automatically by means of thermal and magnetic tripping devices to provide inverse time current tripping and instantaneous tripping for short circuit protection.
- 2.3 Manufacturers
- .1 Acceptable manufacturers: Cutler-Hammer, Schneider Canada, Siemens or approved equal.
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PART 3 - EXECUTION

3.1 Installation .1 Install circuit breakers as indicated.