

PART 1 - GENERAL

- 1.1 REFERENCES .1 Canada Green Building Council (CaGBC)  
.1 LEED Canada-NC-2009, LEED (Leadership in Energy and Environmental Design): Green Building Rating System Reference Package For New Construction and Major Renovations.
- .2 CSA International  
.1 CSA C22.2 No. 5-09, Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures (Tri-national standard with UL 489, and NMJ-J-266-ANCE-2010).
- 1.2 ACTION AND INFORMATIONAL SUBMITTALS .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:  
.1 Submit manufacturer's instructions, printed product literature and data sheets for circuit breakers and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Certificates:  
.1 Prior to installation of circuit breakers in either new or existing installation, Contractor must submit 3 copies of a production certificate of origin from the manufacturer. Production certificate of origin must be duly signed by factory and local manufacturer's representative certifying that circuit breakers come from this manufacturer and are new and meet standards and regulations.  
.1 Production certificate of origin must be submitted to Departmental Representative for approval.  
.2 Delay in submitting production of certificate of origin will not justify any extension of contract and additional compensation.  
.3 Any work of manufacturing, assembly or installation to begin only after acceptance of production certificate of origin by
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- 1.3 DELIVERY,  
STORAGE AND  
HANDLING  
(Cont'd)
- .2 Develop Construction Waste Management Plan related to Work of this Section and in accordance with Section 01 35 21 - LEED Requirements.
  - .3 Packaging Waste Management: remove for reuse or return of pallets, crates, padding, banding, and packaging materials as specified in Construction Waste Management Plan in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal and Section 01 35 21 - LEED Requirements.

PART 2 - PRODUCTS

- 2.1 BREAKERS  
GENERAL
- .1 Moulded-case circuit breakers: 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 3-8 times current rating.
  - .5 Circuit breakers to have minimum 22 symmetrical rms interrupting capacity rating.
- 2.2 THERMAL  
MAGNETIC BREAKERS  
DESIGN A
- .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.

PART 3 - EXECUTION

- 3.1 INSTALLATION .1 Install circuit breakers as indicated.
- 3.2 CLEANING .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
- .2 Waste Management: separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal and Section 01 35 21 - LEED Requirements.
- .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.