
Part 1 General**1.1 RELATED SECTIONS**

- .1 Section 26 05 00 - Common Work Results for Electrical.

1.2 SUBMITTALS

- .1 Submit shop drawings in accordance with Section 01 00 10 – General Instructions.

1.3 REFERENCES

- .1 Canadian Standards Association (CSA International).
 - .1 CSA-C22.2 No.5-13, Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures (Tri-national standard with UL 489 and NMX-J-266-ANCE-2010).

1.4 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 00 10 – General Instructions.
- .2 Remove from site and dispose of all packaging materials at appropriate recycling facilities.
- .3 Collect and separate for disposal all packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
- .4 Divert unused metal and wiring materials from landfill to metal recycling facility as approved by Departmental Representative.

Part 2 Products**2.1 BREAKERS GENERAL**

- .1 Provide moulded-case circuit breakers to CSA 22.2 No. 5.
- .2 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.
 - .2 Production certificate of origin must be submitted to Departmental Representative for approval.

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- .3 Provide automatic moulded-case circuit breakers in panelboards as indicated on the drawings and herein specified. Breaker sizes and trips as scheduled, or indicated on the one-line diagram.
 - .4 Use bolt-on moulded-case circuit breakers, quick-make, quick-break type for manual and automatic operation with temperature compensation for 40oC ambient.
 - .5 Breakers shall be common trips with single handle for multi-pole application.
 - .6 In panelboards, moulded-case circuit breakers to operate automatically by means of thermal and magnetic-tripping devices to provide inverse time current tripping under overload conditions and instantaneous magnetic tripping for short circuit protection.
 - .7 Magnetic instantaneous trip elements to operate only when the value of the current reaches 10 to 12 times the breaker trip setting.
 - .8 Breaker minimum interrupting rating 25 kA or as indicated symmetrical.
 - .9 All breakers used for switching lighting circuits to be CSA approved for the application.

Part 3 Execution**3.1 INSTALLATION**

- .1 Install circuit breakers as indicated.

3.2 TESTING AND COMMISSIONING

- .1 Using the manufacturer's proprietary test set check breakers and test to confirm operation within published tolerances and set each breaker in accordance with the co-ordination study.

END OF SECTION