

**Part 1            General**

**1.1                SECTION INCLUDES**

- .1        Materials for moulded-case circuit breakers.

**1.2                RELATED SECTIONS**

- .1        Division 01 – General Requirements.
- .2        Section 26 05 01 – Common Work Results – Electrical.

**1.3                REFERENCES**

- .1        Canadian Standards Association (CSA International) Latest Edition of the following:
  - .1        CSA-C22.2 No. 5-2 (R2007), Moulded-Case Circuit Breakers, Moulded-Case Switches and Circuit-Breaker Enclosures (Tri-national standard with UL 489, tenth edition, and the second edition of NMX-J-266-ANCE).
  - .2        CAN/CSA-C22.2 No. 144-M91 (R2001), Ground Fault Circuit Interrupters.

**1.4                SUBMITTALS**

- .1        Prior to any installation of circuit breakers in either a new or existing installation, Contractor must submit three (3) copies of a certificate of origin, from the manufacturer, duly signed by the factory and the local manufacturer's representative, certifying that all circuit breakers come from this manufacturer, they are new and they meet standards and regulations. These certificates must be submitted to the Departmental Representative for approval.
- .2        A delay in the production of the certificate of origin won't justify any extension of the contract and additional compensation.
- .3        Any work of manufacturing, assembly or installation should begin only after acceptance of the certificate of origin by Departmental Representative. Unless complying with this requirement, Departmental Representative reserves the right to mandate the manufacturer listed on circuit breakers to authenticate all new circuit breakers under the contract, and that, to Contractor's expense.
- .4        In general, the certificate of origin must contain:
  - .1        The name and address of the manufacturer and the person responsible for authentication. The responsible person must sign and date the certificate;
  - .2        The name and address of the licensed dealer and the person of the distributor responsible for the Contractor's account.
  - .3        The name and address of the Contractor and the person responsible for the project.
  - .4        The name and address of the local manufacturer's representative. The local representative must sign and date the certificate.
  - .5        The name and address of the building where circuit breakers will be installed:
    - .1        Project title.
    - .2        End user's reference number.

- .5 The list of circuit breakers.

## **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°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.

### **2.2 ACCEPTABLE MATERIALS**

- .1 Breakers shall be compatible with existing panelboards and shall have short circuit interrupting ratings to match the existing panelboards in which they are installed.
- .2 Provide all required mounting hardware and accessories.

## **Part 3 Execution**

### **3.1 MANUFACTURER'S INSTRUCTIONS**

- .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheets.

### **3.2 INSTALLATION**

- .1 Install circuit breakers as indicated.

END OF SECTION