

**PART 1**      **GENERAL**

**1.1**            **RELATED SECTIONS**

- .1      Section 01 78 00 – Closeout Submittals.
- .2      Section 26 05 00 – Common Work Results - Electrical.

**1.2**            **REFERENCES**

- .1      Canadian Standards Association (CSA)
  - .1      CSA C22.2No.248.12 , Low Voltage Fuses Part 12: Class R (Bi-National Standard with, UL 248-12 (1st Edition).

**1.3**            **SUBMITTALS**

- .1      Submit fuse performance data characteristics for each fuse type and size above 600 A. Performance data to include: average melting time-current characteristics.

**1.4**            **DELIVERY AND STORAGE**

- .1      Ship fuses in original containers.
- .2      Do not ship fuses installed in switchboard.
- .3      Store fuses in original containers in storage cabinet moisture free location.

**1.5**            **MAINTENANCE MATERIALS**

- .1      Provide maintenance materials in accordance with Section 01 78 00 - Closeout Submittals.
- .2      Three spare fuses of each type and size installed above 600 A.
- .3      Six spare fuses of each type and size installed up to and including 600 A.

**PART 2**      **PRODUCTS**

**2.1**            **FUSES GENERAL**

- .1      Fuse type references L1, L2, J1, R1, etc. have been adopted for use in this specification.
- .2      Fuses: product of one manufacturer for entire project.

## 2.2 FUSE TYPES

- .1 Class L fuses (formerly HRC-L ).
  - .1 Type L1, time delay, capable of carrying 500% of its rated current for 10 s minimum.
  - .2 Type L2, fast acting.
- .2 Class J fuses (formerly HRCI- J).
  - .1 Type J1, time delay, capable of carrying 500% of its rated current for 10 s minimum.
  - .2 Type J2, fast acting.
- .3 Class R -R fuses (formerly HRCI- R). For UL Class RK1 fuses, peak let-through current and its' peak let-through values not to exceed limits of UL 198E-1982, table 10.2.
  - .1 Type R1, (UL Class RK1), time delay, capable of carrying 500% of its rated current for 10 s minimum, to meet UL Class RK1 maximum let-through limits.
  - .2 Type R2, time delay, capable of carrying 500% of its rated current for 10 s minimum.
  - .3 Type R3, (UL Class RK1), fast acting Class R, to meet UL Class RK1 maximum let-through limits.
- .4 Class -C fuses (formerly HRCII- C).

## 2.3 FUSE STORAGE CABINET

- .1 Fuse storage cabinet, manufactured from 2.0 mm thick aluminum 750 mm high, 600 mm wide, 300 mm deep, hinged, lockable front access door finished in accordance with Section 26 05 00 – Common Work Results - Electrical.

## PART 3 EXECUTION

### 3.1 INSTALLATION

- .1 Install fuses in mounting devices immediately before energizing circuit. Ensure correct fuses fitted to physically matched mounting devices.
  - .1 Install Class R rejection clips for HRCI-R fuses.
- .2 Ensure correct fuses fitted to assigned electrical circuit.
- .3 Where UL Class RK1 fuses are specified, install warning label "Use only UL Class RK1 fuses for replacement" on equipment.
- .4 Install spare fuses in fuse storage cabinet.

**END OF SECTION**