## Part 1 General

### 1.1 RELATED SECTIONS

1.2260500 - Common Work Results for Electrical: Product Data; Delivery, Storage and Handling.
1.3 REFERENCES
. 1 Canadian Standards Association (CSA International)
. 1 CSA C22.2 No. 193-M1983(R2019), High-Voltage Full-Load Interrupter Switches.

## $1.4 \quad$ PRODUCT DATA

. 1 Submit product data in accordance with Section 013300 - Submittal Procedures.

## Part 2 Products

### 2.1 LOAD INTERRUPTER SWITCH

. Load Interrupter Switch: to CSA C22.2 No. 193.
. 2 Three pole, quick-make, quick-break assembly, stored energy operating mechanism manual operated, assembled on welded steel base.
. 3 Continuous full load rating: 600 A , interrupting rating: 600 A , rated momentary current 40kA asymmetrical.
. 4 Voltage rating: $25 \mathrm{kV}, 150 \mathrm{kV}$ BIL.
. 5 Complete with Inter-phase barriers.
. $6 \quad$ Non-removable operating handle $\mathrm{c} / \mathrm{w}$ provision for pad locking in the open or closed position.
. $7 \quad$ Enclosure: Sprinkler-proof enclosure not less than 11-gauge steel.
. 8 Rear access doors to be hinged with knurled finger operable hardware with slotted or Robertson drives, include a padlocking tab for the client to add padlocks as required.
. 9 Gaskets on all doors
.10 The following features shall be supplied on every vertical section
.1 A high impact viewing window that permits full view of the position of all three switch blades through the closed door.
. 2 The switch access door shall be interlocked with the switch so that:
. 1 The switch must be opened before the door can be opened.
. 2 The door must be closed before the switch can be closed.
. 3 Permanent "Open-Closed" switch position indicators.
. 11 Bus: Tin plated copper with full round edge braced for 40kA.

### 2.2 INFRARED WINDOWS

. 1 Each switchgear compartment containing incoming or outgoing cables, or incoming or outgoing bus connections, shall have 4-inch I.R. windows that will support the use of Long Wave and Short Wave I.R. camera systems.
. 2 Provide enough windows on each rear door to view each visible incoming or outgoing feeder cable or bus connection, with an acceptable viewing angle to each connection.
. 3 The windows shall have $100 \%$ transmission of visual wavelengths
. 4 The windows shall have $98 \%$ of Infrared wavelengths, both short ( 0.35 to $5.5 \mu \mathrm{~m}$ ) and long ( 8 to $12 \mu \mathrm{~m}$ ) wave
. $5 \quad$ The windows shall have a removable metallic cover plate.
. 6 Use standard Field of View calculations to determine where to install windows. FOV $=2$ $x\left[\left(\right.\right.$ tangent of $1 / 2$ the angle) $x$ distance), assuming a standard camera FOV of $24^{\circ}$.
. 7 Acceptable Products:
. 1 IRISS VP100
. 2 Hawk IR
. 3 H.VIR Comet
. 4 Or approved Equivalents

### 2.3 FABRICATION

. 1 Factory assemble and adjust 3 pole gang operated switch, operating assembly, interphase barriers and interlocks.

## Part 3 Execution

### 3.1 INSTALLATION

. 1 Install load interrupter switches in accordance with manufacturer's instructions.

END OF SECTION

