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| Version | Date | Description of Revisions |
| 1 | August 30, 2006 | Approved final document. |
| 2 | February 19, 2010 | Modified ‘Related Sections’ and approved suppliers |
| 3 | June 25, 2013 | Final Draft – Consolidated Comments Spec Update Project. Incorporation of new Commissioning and Computerized Maintenance Management System Data Requirements Specification cross references. |
| 4 | July 30, 2014 | Changes to reflect renaming of commissioning specification and final review (AV) |
| **5** | **February 4, 2015** | **Updated, Finalized Specification – Reference eDOCS #5630511 v7 (AV) and amended company corporate name** |
| 6 | February 10, 2017 | Removed name manufacturers and added to the performance based specifications. (CPD PMO, OMM) (AV) Added reference standards (Ontario Electrical Safety Code, 26th edition, 2015, NEMA 250-2014) (AAM) |

NOTE:

This is a CONTROLLED Document. Any documents appearing in paper form are not controlled and should be checked against the on-line file version prior to use.

**Notice:** This Document hardcopy must be used for reference purpose only.

**The on-line copy is the current version of the document.**

# GEneral

## Related Sections

### Section 01250 – Substitutions

### Section 01425 - Computerized Maintenance Management System Data Requirements

### Section 01810 – Equipment Testing and Facility Commissioning

### Section 16010 – Electrical General Requirements

## References

### Canadian Standards Association (CSA)

#### Ontario Electrical Safety Code, 28th edition, 2021

### National Electrical Manufacturers Association

#### NEMA 250-2014 Enclosures for electrical equipment (1,000 V Maximum)

## Measurement and Payment

### The work of this Section will not be measured separately for payment. All costs associated with the work of this Section shall be included in the Contract Price.

## Product Data

### Submit product data in accordance with Section 01300 – Submittals.

### Submit the manufacturer's data for all disconnect switches.

### Identify the motor or equipment served by each switch on each nameplate inscription.

### All other required information as detailed in the equipment information template and electronically up-loadable to the CMMS (Maximo). Comply with Section 01425 - Computerized Maintenance Management System Data Requirements

# PRODUCTS

## Disconnect Switches

### Supply and install safety switches, fused or non-fused, as required complete with fuses as shown on the Contract Drawings or required by Ontario Electrical Code. Safety switches shall be quick make and quick break construction with safety interlock and kW (HP) ratings as indicated in the Contract Documents.

### Fusible and non-fusible, disconnect switch in NEMA Enclosure, type and size as indicated in the Contract Documents.

### Provision for padlocking in off switch position by three locks.

### Mechanically interlocked door to prevent opening when the handle is in the ON position.

### Fuses: On load side of switch size as indicated in the Contract Documents.

### Fuse holders: re-locatable and suitable without adaptors, for type and size of fuse indicated in the Contract Documents.

### Quick-make, quick-break action.

### ON-OFF switch position indication on switch enclosure cover.

### Switches shall be housed in a NEMA 12 enclosure when located at indoors & dry areas and NEMA 4X enclosure when located in wet areas and outdoors.

### For switches 100A and over, provide non-tracking arc shrouds.

### Supply neutral bar.

### Provide ground bar for ground termination.

### Provide dry auxiliary contact interlocked with switch mechanism.

### There shall be a window in the door that allows for quick and easy viewing of the inside.

## Equipment Identification

### Provide equipment identification in accordance with Section 16010 - Electrical General Requirements.

### Indicate the name of the load controlled on a size 4 nameplate.

# EXECUTION

## Installation

### Install disconnect switches complete with fuses if applicable.

### Provide 3 spare fuses for each kind used.

## Commissioning

### For all commissioning activities on systems where components of this Section are integral to functionality, refer to Section 01810 – Equipment Testing and Facility Commissioning. All inspection and testing activities shall be completed in accordance with the commissioning plan that shall be provided to the Consultant and get approved prior to the start of commissioning activities.

**END OF SECTION**