Functional Specification for SecTER Cabinets

1.0 Scope

1.1 This specification covers test and mechanical characteristics of Eaton’s Cooper Power™ series single-phase and three-phase sectionalizing enclosures.

2.0 Applicable Standards

2.1 All characteristics, definitions, and terminology, except as specifically covered in this specification, shall be in accordance with the latest revision of the following standards:

2.1.1 IEEE Std C57.12.28™-2014 standard - IEEE Standard for Pad-Mounted Equipment - Enclosure Integrity


3.0 Construction

3.1 The sectionalizing enclosure must be continuous seam-welded and manufactured of 12-gauge HRPO mild steel.

3.2 Enclosures must also be available in stainless steel and aluminum for high corrosive areas.

3.3 All hardware must be stainless steel for corrosion resistance.

3.4 Enclosure must be available in the colors shown below and meet the finish requirements as defined in IEEE Std. C57.12.28™-2014 standard.

3.4.1 Munsell Green color 7GY 3.29-1.5 (standard)

3.4.2 ANSI Grey 70

3.4.3 Desert Tan FS-595B-33446

3.4.4 Eagle Feather Tan FS-595-23578

3.4.5 Tobacco Brown FS-595C-30108

3.5 Enclosure must include a top hinged removable cover and allow one person operation. Cover must also include a wind stop to prevent accidental closing.

3.6 Enclosure must include a deep angled recessed door with low sill for easy accessibility.

3.7 Enclosure must include universal mounting plates painted light grey for optimum visibility of cable terminations and must accept the following:

3.7.1 200 A, 15,25 & 35 kV, two-, three- and four-position loadbreak junctions (enclosure size dependent).

3.7.2 600 A, 15/25 & 35 kV, two-, three- and four-position deadbreak junctions (enclosure size dependent).

3.7.3 600 A, 15, 25, & 28 kV Class loadbreak connector system (square configuration (enclosure size dependent).

3.8 Enclosures must be available with junctions as listed in 3.8, installed.

3.10 Enclosure must include “parking lot” parking stand design providing multiple options for parking of accessories and providing rigidity to the back of the enclosure to prevent oil-canning during operation.
3.11 Enclosure must provide a minimum of 1 parking stand pocket per phase.
3.12 Enclosure must include a minimum of one grounding provision per phase.
3.13 Enclosure must include provisions for lifting.
3.14 Enclosure must include a recessed lock pocket, padlock hasp and pentahead bolt for security.

4.0 Dimensions
4.1 Enclosures must be available in the following sizes:
   4.1.1 30"H X 24"W X 22"D
   4.1.2 30"H X 30"W X 22"D
   4.1.3 30"H X 48"W X 22"D
   4.1.4 30"H X 66"W X 22"D
   4.1.5 30"H X 84"W X 22"D
   4.1.6 30"H X 98"W X 30"D

5.0 Optional Features
5.1 3/8" ground bar installed.

6.0 Ground Sleeves
6.1 Fiberglass ground sleeves to accommodate enclosures must be available in 18" and 30" heights.

7.0 Base Extensions
7.1 Steel base extensions to accommodate enclosures must be available in 18" and 24" heights.

8.0 Approved Manufacturers
8.1 Eaton’s Cooper Power series