

## SDC™ Composite Bushing - 27.5kV

By Electro Composites  
Catalog # 150-012-T-438-04

SDC™ 27.5kV-1200 A Transformer Condenser Bushing, Solid-Dielectric-Capacitor Type, Rated per CSA C88.1, Bottom Connected for Air-to-Oil Applications, 10.3" Min. Oil Immersion Level/CT Pocket Length, 26.5" Min. Creepage Length



\*Representative Image

### Features

- SDC™ - Solid Dielectric Capacitance Graded Composite Construction
- EC-APG-02 Cycloaliphatic Epoxy Compound for Optimal Performance
- Meets CSA C88.1 Electrical and Mechanical Requirements
- Can be mounted vertically or horizontally

### Application

Transformer

### General

|                                 |                               |
|---------------------------------|-------------------------------|
| Bottom Terminal Type            | 1 3/4-12                      |
| Color                           | Gray                          |
| Immersion Type - Above Flange   | Air                           |
| Immersion Type - Below Flange   | Oil                           |
| Material - Flange               | Aluminum                      |
| Material - Insulation           | APG-02 - Cycloaliphatic Epoxy |
| Mounting Position               | Vertical to Horizontal        |
| Number of Flange Mounting Holes | 6                             |
| Plating - Bottom Terminal       | None                          |
| Test Tap                        | Yes                           |
| Top Terminal Plating            | None                          |
| Top Terminal Type               | 1 1/2-12                      |
| Type                            | Condenser Bushings            |

### Dimensions

|   |          |
|---|----------|
| Above Flange Length                         | 16.13 in |
| Below Flange Length                         | 19.5 in  |
| Diameter - Above Flange Maximum             | 8.64 in  |
| Diameter - Below Flange Maximum D <gt;/> 1" | 4.15 in  |
| Diameter - Below Flange Maximum P           | 4.28 in  |
| Diameter - Live Part Bottom                 | 1.75 in  |
| Diameter - Live Part Top                    | 3.25 in  |
| Effective Length - Bottom Terminal          | 4.00 in  |
| Effective Length - Top Terminal             | 2.65 in  |
| Flange Mounting Hole Bolt Circle            | 8.25 in  |
| Flange Mounting Hole Diameter               | 0.63 in  |
| Flange Outside Diameter                     | 9.50 in  |
| Length                                      | 35.63 in |
| Length - Ground Shield                      | 10.30 in |
| Length - Insulation Above Flange            | 8.90 in  |
| Length - Insulation Below Flange            | 4.00 in  |
| Length - Live Part Bottom                   | 5.20 in  |
| Length - Live Part Top                      | 3.70 in  |
| Length - Minimum Oil Immersion Level        | 10.30 in |
| Sealing Surface Inside Diameter             | 4.37 in  |
| Sealing Surface Outside Diameter            | 7.62 in  |
| Top Terminal Min. Thread Length             | 2.65 in  |
| Weight                                      | 59 lb    |

### Electrical Ratings

|                               |          |
|-------------------------------|----------|
| BIL                           | 150 kV   |
| Current Rating                | 1200 A   |
| Minimum Creepage              | 26.50 in |
| Minimum Strike                | 11.50 in |
| Withstand Voltage - 60 Hz Dry | 70 kV    |
| kV Class                      | 27.5 kV  |

## Certifications and Compliance

Industry Standard(s)

CSA C88.1

### Product Assets

Installation Manuals - SDC™ Bushing General Handling and Maintenance Guide - Electro Composites  
Literature - Apparatus Bushings Selection Guide (TD02026E)  
Literature - SDC™ GSU Bushings - Electro Composites (SF02018E)  
Literature - SDC™ HV Generator Bushings - Electro Composites (SF02019E)  
Literature - SDC™ HV Bushings - Electro Composites (SF02017E)  
Literature - EC SDC Solid Dielectric Bushings v3  
Literature - FRENCH V2 - EC Generation Bushings  
Literature - FRENCH V2 - EC GSU Bushings  
Literature - How an SDC Bushing Test Tap is Constructed  
Sales Drawings - 438-04\_7768-9090  
Video - ElectroComposites Factory Tour: St. Jerome (VI00124E)



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