

## SDC™ Composite Bushing - 34.5kV

By Electro Composites  
Catalog # 200-030-T-534-00

SDC™ 34.5kV-3000 A Transformer Condenser Bushing, Solid-Dielectric-Capacitor Type, Rated per IEEE C57.19.01, Bottom Connected for Air-to-Oil Applications, 21" Min. Oil Immersion Level/CT Pocket Length, 55.4" Min. Creepage Length



\*Representative Image

### Features

- SDC™ - Solid Dielectric Capacitance Graded Composite Construction
- EC-APG-02 Cycloaliphatic Epoxy Compound for Optimal Performance
- Meets IEEE C57.19.01 Electrical and Mechanical Requirements
- Can be mounted vertically or horizontally

### Application

Transformer

### General

|  |                                  |
|--|----------------------------------|
| Bottom Terminal Type                   | 1X BLADE WITH 2X 0.69 DIA HOLES  |
| 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 Bolt Holes - Bottom Terminal | 2                                |
| Number of Flange Mounting Holes        | 6                                |
| Plating - Bottom Terminal              | None                             |
| Test Tap                               | Yes                              |
| Top Terminal Plating                   | None                             |
| Top Terminal Type                      | 3-12                             |
| Type                                   | SDC - Solid Dielectric Capacitor |

### Dimensions

|   |          |
|---|----------|
| Above Flange Length                         | 25.5 in  |
| Below Flange Length                         | 34.3 in  |
| Diameter - Above Flange Maximum             | 10.13 in |
| Diameter - Below Flange Maximum D <gt;/> 1" | 4.75 in  |
| Diameter - Below Flange Maximum P           | 4.95 in  |
| Diameter - Live Part Bottom                 | 3.00 in  |
| Diameter - Live Part Top                    | 4.50 in  |
| Effective Length - Bottom Terminal          | 4.13 in  |
| Effective Length - Top Terminal             | 3.00 in  |
| Flange Mounting Hole Bolt Circle            | 9.25 in  |
| Flange Mounting Hole Diameter               | 0.88 in  |
| Flange Outside Diameter Length              | 11.00 in |
| Length - Ground Shield                      | 59.80 in |
| Length - Insulation Above Flange            | 21.00 in |
| Length - Insulation Below Flange            | 18.20 in |
| Length - Live Part Bottom                   | 8.20 in  |
| Length - Live Part Top                      | 5.10 in  |
| Length - Minimum Oil Immersion Level        | 3.70 in  |
| Sealing Surface Inside Diameter             | 21.00 in |
| Sealing Surface Outside Diameter            | 5.11 in  |
| Top Terminal Min. Thread Length             | 8.37 in  |
| Weight                                      | 3.00 in  |
|   | 191 lb   |

### Electrical Ratings

|                               |          |
|-------------------------------|----------|
| BIL                           | 200 kV   |
| Current Rating                | 3000 A   |
| Minimum Creepage              | 55.40 in |
| Minimum Strike                | 21.00 in |
| Withstand Voltage - 60 Hz Dry | 80 kV    |
| kV Class                      | 34.5 kV  |

## Certifications and Compliance

Industry Standard(s)

IEEE C57.19.01

### 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 - 534-00\\_6074-5703](#)  
[Video - ElectroComposites Factory Tour: St. Jerome \(VI00124E\)](#)



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EC-200-030-T-534-00-SPEC-EN | REV 1/2024