

## SDC™ Composite Bushing - 27.5kV

By Electro Composites  
Catalog # 125-020-T-364-00

SDC™ 27.5kV-2000 A Transformer Condenser Bushing, Solid-Dielectric-Capacitor Type, Rated per IEC 60137, Bottom Connected for Air-to-Oil Applications, 17" 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 IEC 60137 Electrical and Mechanical Requirements
- Can be mounted vertically or horizontally

### Application

Transformer

### General

|                                 |                                  |
|---------------------------------|----------------------------------|
| Bottom Terminal Type            | 2-12                             |
| 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 | 4                                |
| Plating - Bottom Terminal       | None                             |
| Test Tap                        | Yes                              |
| Top Terminal Plating            | Tin                              |
| Top Terminal Type               | 2-12                             |
| Type                            | SDC - Solid Dielectric Capacitor |

### Dimensions

|   |          |
|---|----------|
| Above Flange Length                         | 17.57 in |
| Below Flange Length                         | 27.63 in |
| Diameter - Above Flange Maximum             | 8.64 in  |
| Diameter - Below Flange Maximum D <gt;/> 1" | 3.60 in  |
| Diameter - Below Flange Maximum P           | 3.75 in  |
| Diameter - Live Part Bottom                 | 2.00 in  |
| Diameter - Live Part Top                    | 3.50 in  |
| Effective Length - Bottom Terminal          | 4.00 in  |
| Effective Length - Top Terminal             | 4.00 in  |
| Flange Mounting Hole Bolt Circle            | 7.25 in  |
| Flange Mounting Hole Diameter               | 0.69 in  |
| Flange Outside Diameter                     | 8.50 in  |
| Length                                      | 45.19 in |
| Length - Ground Shield                      | 17.00 in |
| Length - Insulation Above Flange            | 8.90 in  |
| Length - Insulation Below Flange            | 4.93 in  |
| Length - Live Part Bottom                   | 5.70 in  |
| Length - Live Part Top                      | 4.80 in  |
| Length - Minimum Oil Immersion Level        | 17.00 in |
| Sealing Surface Inside Diameter             | 4.37 in  |
| Sealing Surface Outside Diameter            | 6.57 in  |
| Top Terminal Min. Thread Length             | 4.00 in  |
| Weight                                      | 76 lb    |

### Electrical Ratings

|                               |          |
|-------------------------------|----------|
| BIL                           | 125 kV   |
| Current Rating                | 2000 A   |
| Minimum Creepage              | 26.50 in |
| Minimum Strike                | 11.30 in |
| Withstand Voltage - 60 Hz Dry | 50 kV    |
| kV Class                      | 27.5 kV  |

## Certifications and Compliance

Industry Standard(s)

IEC 60137

### 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 - 364-00\_5069-4588  
Video - ElectroComposites Factory Tour: St. Jerome (V100124E)



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