

SDC™ Composite Bushing - 46kV

By Electro Composites  
Catalog # 250-040-T-516-02

SDC™ 46kV-4000 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, 57.6" Min. Creepage Length

Features

- SDC™ - Solid Dielectric Capacitance Graded Composite Construction
- EC-APG-02 Cycloaliphatic Epoxy Compound for Optimal Performance
- No oil, paper or porcelain
- Can be mounted vertically or horizontally
- Meets IEEE C57.19.01 Electrical and Mechanical Requirements

Application

Transformer

General

|                                 |                                  |
|---------------------------------|----------------------------------|
| Bottom Terminal Type            | 3-12                             |
| Catalog Number                  | 250-040-T-516-02                 |
| 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       | Silver                           |
| Test Tap                        | Yes                              |
| Top Terminal Plating            | Silver                           |
| Top Terminal Type               | 3-12                             |
| Type                            | SDC - Solid Dielectric Capacitor |

Dimensions

|                                               |          |
|-----------------------------------------------|----------|
| Above Flange Length                           | 27.9 in  |
| Below Flange Length                           | 34.5 in  |
| Diameter - Above Flange Maximum               | 10.13 in |
| Diameter - Below Flange Maximum D <gt; 1"     | 5.02 in  |
| Diameter - Below Flange Maximum P             | 5.02 in  |
| Diameter - Conductor Outside Under Insulation | 3 in     |
| Diameter - Live Part Bottom                   | 3.00 in  |



\*Representative Image

|                                      |                                |
|--------------------------------------|--------------------------------|
| Diameter - Live Part Top             | 4.50 in                        |
| Diameter - Rod / Tube                | 3 in                           |
| Dimensions                           | 62.38 in x 11.50 in x 11.50 in |
| Effective Length - Bottom Terminal   | 3.00 in                        |
| Effective Length - Top Terminal      | 3.00 in                        |
| Flange Mounting Hole Bolt Circle     | 10.25 in                       |
| Flange Mounting Hole Diameter        | 0.88 in                        |
| Flange Outside Diameter              | 11.5 in                        |
| Height                               | 11.5 in                        |
| Length                               | 62.38 in                       |
| Length - Ground Shield               | 21.00 in                       |
| Length - Insulated Section           | 54.4 in                        |
| Length - Insulation Above Flange     | 20.50 in                       |
| Length - Insulation Below Flange     | 9.30 in                        |
| Length - Live Part Bottom            | 4.20 in                        |
| Length - Live Part Top               | 3.90 in                        |
| Length - Minimum Oil Immersion Level | 21.00 in                       |
| Sealing Surface Inside Diameter      | 5.11 in                        |
| Sealing Surface Outside Diameter     | 9.37 in                        |
| Thickness                            | 1.01 in                        |
| Top Terminal Min. Thread Length      | 3 in                           |
| Weight                               | 211 lb                         |
| Width                                | 11.5 in                        |

Electrical Ratings

|                                        |         |
|----------------------------------------|---------|
| BIL                                    | 250 kV  |
| Current Rating                         | 4000 A  |
| Minimum Creepage                       | 57.6 in |
| Minimum Strike                         | 22.9 in |
| Withstand Voltage - 60 Hz Dry kV Class | 105 kV  |
|                                        | 46 kV   |

Certifications And Compliance

|                      |                |
|----------------------|----------------|
| Industry Standard(s) | IEEE C57.19.01 |
|----------------------|----------------|

Product Assets

[Catalogs - Electro Composites SDC™ composite bushings](#)  
[Installation Manuals - SDC™ Bushing General Handling and Maintenance Guide - Electro Composites](#)  
[Literature - SDC™ HV Generator Bushings - Electro Composites](#)  
[Literature - How an SDC Bushing Test Tap is Constructed](#)  
[Literature - TRAVERSÉE SDC™ ÉLECTRO COMPOSITES DE TYPE GSU](#)  
[Literature - SDC™ GSU Bushings - Electro Composites](#)

[Literature - TRAVERSÉE SDC™ ÉLECTRO COMPOSITES POUR GÉNÉRATEUR](#)  
[Literature - Apparatus Bushings Selection Guide](#)  
[Literature - ÉLECTRO COMPOSITES TRAVERSÉE HAUTE TENSION SDC™](#)  
[Literature - SDC™ HV Bushings - Electro Composites](#)  
[Sales Drawings - 516-02\\_7008-6656](#)  
[Specifications - 250040T51602](#)  
[Video - ElectroComposites Factory Tour: St. Jerome](#)



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