

SDC™ Composite Bushing - 24kV

By Electro Composites  
Catalog # 150-040-T-540-00

SDC™ 24kV-4000 A Transformer Condenser Bushing, Solid-Dielectric-Capacitor Type, Rated per IEC 60137, Bottom Connected for Air-to-Oil Applications, 5.9" Min. Oil Immersion Level/CT Pocket Length, 31.5" Min. Creepage Length



\*Representative Image

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 IEC 60137 Electrical and Mechanical Requirements

Application

Transformer

General

|                                        |                                  |
|----------------------------------------|----------------------------------|
| Bottom Terminal Type                   | 1X BLADE WITH 4X 0.71 DIA HOLES  |
| Catalog Number                         | 150-040-T-540-00                 |
| 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 | 4                                |
| Number of Flange Mounting Holes        | 8                                |
| Plating - Bottom Terminal              | None                             |
| Test Tap                               | Yes                              |
| Top Terminal Plating                   | Silver                           |
| Top Terminal Type                      | 3.54 DIA SMOOTH                  |
| Type                                   | SDC - Solid Dielectric Capacitor |

Dimensions

|                                            |          |
|--------------------------------------------|----------|
| Above Flange Length                        | 22.44 in |
| Below Flange Length                        | 12.6 in  |
| Diameter - Above Flange Maximum            | 8.96 in  |
| Diameter - Below Flange Maximum D <gt/> 1" | 5.02 in  |
| Diameter - Below Flange Maximum P          | 5.02 in  |

|                                               |                                |
|-----------------------------------------------|--------------------------------|
| Diameter - Conductor Outside Under Insulation | 3.25 in                        |
| Diameter - Live Part Bottom                   | 4.00 in                        |
| Diameter - Live Part Top                      | 5.50 in                        |
| Diameter - Rod / Tube                         | 4 in                           |
| Dimensions                                    | 35.04 in x 10.83 in x 10.83 in |
| Effective Length - Bottom Terminal            | 4.13 in                        |
| Effective Length - Top Terminal               | 5.51 in                        |
| Flange Mounting Hole Bolt Circle              | 9.25 in                        |
| Flange Mounting Hole Diameter                 | 0.63 in                        |
| Flange Outside Diameter                       | 10.83 in                       |
| Height                                        | 10.83 in                       |
| Length                                        | 35.04 in                       |
| Length - Ground Shield                        | 5.90 in                        |
| Length - Insulated Section                    | 22.2 in                        |
| Length - Insulation Above Flange              | 10.90 in                       |
| Length - Insulation Below Flange              | 2.00 in                        |
| Length - Live Part Bottom                     | 4.70 in                        |
| Length - Live Part Top                        | 8.10 in                        |
| Length - Minimum Oil Immersion Level          | 5.90 in                        |
| Sealing Surface Inside Diameter               | 5.13 in                        |
| Sealing Surface Outside Diameter              | 8.62 in                        |
| Thickness                                     | 0.885 in                       |
| Top Terminal Min. Thread Length               | 5.51 in                        |
| Weight                                        | 124 lb                         |
| Width                                         | 10.83 in                       |

Electrical Ratings

|                                        |         |
|----------------------------------------|---------|
| BIL                                    | 150 kV  |
| Current Rating                         | 4000 A  |
| Minimum Creepage                       | 31.5 in |
| Minimum Strike                         | 12.6 in |
| Withstand Voltage - 60 Hz Dry kV Class | 70 kV   |
|                                        | 24 kV   |

Certifications And Compliance

|                      |                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Industry Standard(s) | IEC 60137                                                                                                                                                                                                                                                                                                                                         | Literature - SDC™ GSU Bushings - Electro Composites<br>Literature - TRAVERSÉE SDC™ ÉLECTRO COMPOSITES POUR GÉNÉRATEUR<br>Literature - Apparatus Bushings Selection Guide<br>Literature - ÉLECTRO COMPOSITES TRAVERSÉE HAUTE TENSION SDC™<br>Literature - SDC™ HV Bushings - Electro Composites<br>Sales Drawings - 540-00_6133-5748<br>Specifications - 150040T54000<br>Video - ElectroComposites Factory Tour: St. Jerome |
| Product Assets       | Catalogs - Electro Composites SDC™ composite bushings<br>Installation Manuals - SDC™ Bushing General Handling and Maintenance Guide - Electro Composites<br>Literature - SDC™ HV Generator Bushings - Electro Composites<br>Literature - How an SDC Bushing Test Tap is Constructed<br>Literature - TRAVERSÉE SDC™ ÉLECTRO COMPOSITES DE TYPE GSU |                                                                                                                                                                                                                                                                                                                                                                                                                            |



A Hubbell brand