

SDC™ Composite Bushing - 34.5kV

By Electro Composites  
Catalog # 170-004-T-181-00

SDC™ 34.5kV-400DL A Transformer Condenser Bushing, Solid-Dielectric-Capacitor Type, Rated per IEC 60137, Drawlead Connected for Air-to-Oil Applications, 10" Min. Oil Immersion Level/CT Pocket Length, 33.5" 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            | None                             |
| Catalog Number                  | 170-004-T-181-00                 |
| 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 Flange Mounting Holes | 4                                |
| Plating - Bottom Terminal       | None                             |
| Test Tap                        | Yes                              |
| Top Terminal Plating            | Tin                              |
| Top Terminal Type               | 1 1/2-12                         |
| Type                            | SDC - Solid Dielectric Capacitor |

Dimensions

|                                               |         |
|-----------------------------------------------|---------|
| Above Flange Length                           | 23.6 in |
| Below Flange Length                           | 18.5 in |
| Diameter - Above Flange Maximum               | 8.64 in |
| Diameter - Below Flange Maximum D <gt; 1"     | 2.98 in |
| Diameter - Below Flange Maximum P             | 2.98 in |
| Diameter - Conductor Outside Under Insulation | 1.25 in |
| Diameter - Live Part Bottom                   | 1.25 in |

|                                      |                              |
|--------------------------------------|------------------------------|
| Diameter - Live Part Top             | 3.00 in                      |
| Diameter - Rod / Tube                | 1.25/1.00 in                 |
| Dimensions                           | 42.09 in x 8.50 in x 8.50 in |
| Effective Length - Top Terminal      | 4.53 in                      |
| Flange Mounting Hole Bolt Circle     | 7.26 in                      |
| Flange Mounting Hole Diameter        | 0.69 in                      |
| Flange Outside Diameter              | 8.5 in                       |
| Height                               | 8.5 in                       |
| Length                               | 42.09 in                     |
| Length - Drawlead Above Flange       | 18.00 in                     |
| Length - Ground Shield               | 10.00 in                     |
| Length - Insulated Section           | 34.1 in                      |
| Length - Insulation Above Flange     | 11.20 in                     |
| Length - Insulation Below Flange     | 8.10 in                      |
| Length - Live Part Bottom            | 0.40 in                      |
| Length - Live Part Top               | 7.6 in                       |
| Length - Minimum Oil Immersion Level | 10.00 in                     |
| Sealing Surface Inside Diameter      | 4.37 in                      |
| Sealing Surface Outside Diameter     | 6.57 in                      |
| Stud Inside Diameter                 | 1 in                         |
| Thickness                            | 0.865 in                     |
| Thread Size - Drawlead Connector     | 3/4-12                       |
| Top Terminal Min. Thread Length      | 4.53 in                      |
| Weight                               | 39 lb                        |
| Width                                | 8.5 in                       |

Electrical Ratings

|                                        |                  |
|----------------------------------------|------------------|
| BIL                                    | 170 kV           |
| Current Rating                         | 400 A            |
| Minimum Creepage                       | 33.5 in          |
| Minimum Strike                         | 13.6 in          |
| Withstand Voltage - 60 Hz Dry kV Class | 77 kV<br>34.5 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 - 181-00_3974-2693<br>Specifications - 170004T18100<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 |                                                                                                                                                                                                                                                                                                                                                                                                                            |