

SDC™ Composite Bushing - 25kV

By Electro Composites  
Catalog # 150-100-G-508-00

SDC™ 25kV-10000 A GSU 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, 37" Min. Creepage Length



\*Representative Image

Features

- SDC™ - Solid Dielectric Capacitance Graded Composite Construction
- EC-APG-15NA High Temperature Cycloaliphatic Epoxy Compound for high temperature applications
- No oil, paper or porcelain
- Can be mounted vertically or horizontally
- Meets IEEE C57.19.01/C57.19.04 Electrical and Mechanical Requirements

Application

GSU

General

|                                        |                                           |
|----------------------------------------|-------------------------------------------|
| Bottom Terminal Type                   | 2X BLADES WITH 6X 0.69 DIA HOLES          |
| Catalog Number                         | 150-100-G-508-00                          |
| Color                                  | Gray                                      |
| Immersion Type - Above Flange          | Air                                       |
| Immersion Type - Below Flange          | Oil                                       |
| Material - Flange                      | Aluminum                                  |
| Material - Insulation                  | APG-15NA - High Temp Cycloaliphatic Epoxy |
| Mounting Position                      | Vertical to Horizontal                    |
| Number of Bolt Holes - Bottom Terminal | 12                                        |
| Number of Bolt Holes - Top Terminal    | 32                                        |
| Number of Flange Mounting Holes        | 8                                         |
| Plating - Bottom Terminal              | Silver                                    |
| Test Tap                               | Yes                                       |
| Top Terminal Plating                   | Silver                                    |
| Top Terminal Type                      | 4X BLADES WITH 8X 0.69 DIA HOLES          |
| Type                                   | SDC - Solid Dielectric Capacitor          |

Dimensions

|                     |          |
|---------------------|----------|
| Above Flange Length | 22.38 in |
| Below Flange Length | 32.5 in  |

|                                               |                                |
|-----------------------------------------------|--------------------------------|
| Diameter - Above Flange Maximum               | 13.00 in                       |
| Diameter - Below Flange Maximum D <gt/> 1"    | 9.75 in                        |
| Diameter - Below Flange Maximum P             | 9.75 in                        |
| Diameter - Conductor Outside Under Insulation | 8 in                           |
| Diameter - Live Part Bottom                   | 9.75 in                        |
| Diameter - Live Part Top                      | 11.66 in                       |
| Diameter - Rod / Tube                         | 8.00/7.00 in                   |
| Dimensions                                    | 54.88 in x 17.25 in x 17.25 in |
| Effective Length - Bottom Terminal            | 4.15 in                        |
| Effective Length - Top Terminal               | 3.88 in                        |
| Flange Mounting Hole Bolt Circle              | 15.75 in                       |
| Flange Mounting Hole Diameter                 | 0.88 in                        |
| Flange Outside Diameter                       | 17.25 in                       |
| Height                                        | 17.25 in                       |
| Length                                        | 54.88 in                       |
| Length - Ground Shield                        | 21.00 in                       |
| Length - Insulated Section                    | 44.2 in                        |
| Length - Insulation Above Flange              | 14.10 in                       |
| Length - Insulation Below Flange              | 5.70 in                        |
| Length - Live Part Bottom                     | 5.80 in                        |
| Length - Live Part Top                        | 4.80 in                        |
| Length - Minimum Oil Immersion Level          | 21.00 in                       |
| Sealing Surface Inside Diameter               | 9.88 in                        |
| Sealing Surface Outside Diameter              | 14.87 in                       |
| Thickness                                     | 0.875 in                       |
| Weight                                        | 374 lb                         |
| Width                                         | 17.25 in                       |

Electrical Ratings

|                               |         |
|-------------------------------|---------|
| BIL                           | 150 kV  |
| Current Rating                | 10000 A |
| Minimum Creepage              | 37 in   |
| Minimum Strike                | 14.4 in |
| Withstand Voltage - 60 Hz Dry | 60 kV   |

|                                                                                                 |                          |                                                                |
|-------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------|
| kV Class                                                                                        | 25 kV                    | Literature - TRAVERSÉE SDC™ ÉLECTRO COMPOSITES DE TYPE GSU     |
| <b>Certifications And Compliance</b>                                                            |                          | Literature - SDC™ GSU Bushings - Electro Composites            |
| Industry Standard(s)                                                                            | IEEE C57.19.01/C57-19.04 | Literature - TRAVERSÉE SDC™ ÉLECTRO COMPOSITES POUR GÉNÉRATEUR |
| <b>Product Assets</b>                                                                           |                          | Literature - Apparatus Bushings Selection Guide                |
| Catalogs - Electro Composites SDC™ composite bushings                                           |                          | Literature - ÉLECTRO COMPOSITES TRAVERSÉE HAUTE TENSION SDC™   |
| Installation Manuals - SDC™ Bushing General Handling and Maintenance Guide - Electro Composites |                          | Literature - SDC™ HV Bushings - Electro Composites             |
| Literature - SDC™ HV Generator Bushings - Electro Composites                                    |                          | Sales Drawings - 508-00_5955-5583                              |
| Literature - How an SDC Bushing Test Tap is Constructed                                         |                          | Specifications - 150100G50800                                  |
|                                                                                                 |                          | Video - ElectroComposites Factory Tour: St. Jerome             |



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