

SDC™ Composite Bushing - 22kV DC

By Electro Composites
Catalog # 250-041-D-259-00



SDC™ 22kV-4100 A DC Condenser Bushing, Solid-Dielectric-Capacitor Type, Rated per IEEE C57-19.03, Bottom Connected for Air-to-Air Applications, 19.7" Ground Shield Length, 71.7" 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 C57.19.03 Electrical and Mechanical Requirements

Application

DC

General

Bottom Terminal Type	3-12
Catalog Number	250-041-D-259-00
Color	Gray
Immersion Type - Above Flange	Air
Immersion Type - Below Flange	Air
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	37.3 in
Below Flange Length	52.25 in
Diameter - Above Flange Maximum	10.62 in
Diameter - Below Flange Maximum D <gt/> 1"	7.75 in
Diameter - Below Flange Maximum P	7.75 in
Diameter - Conductor Outside Under Insulation	3 in
Diameter - Live Part Bottom	3.00 in

Diameter - Live Part Top	4.50 in
Diameter - Rod / Tube	3 in
Dimensions	89.50 in x 16.00 in x 16.00 in
Effective Length - Bottom Terminal	5.00 in
Effective Length - Top Terminal	5.00 in
Flange Mounting Hole Bolt Circle	14 in
Flange Mounting Hole Diameter	0.75 in
Flange Outside Diameter	16 in
Height	16 in
Length	89.5 in
Length - Ground Shield	19.70 in
Length - Insulated Section	77.7 in
Length - Insulation Above Flange	25.20 in
Length - Insulation Below Flange	26.85 in
Length - Live Part Bottom	5.70 in
Length - Live Part Top	5.90 in
Length - Minimum Oil	NA
Immersion Level	
Sealing Surface Inside Diameter	9.67 in
Sealing Surface Outside Diameter	13.25 in
Thickness	2.375 in
Top Terminal Min. Thread Length	5 in
Weight	465 lb
Width	16 in

Electrical Ratings

BIL	250 kV
Current Rating	4100 A
Minimum Creepage	71.7 in
Minimum Creepage - Inside	69.40 in
Minimum Strike	27.8 in
Minimum Strike - Inside	28.80 in
Withstand Voltage - 60 Hz Dry kV Class	119 kV AC 22 kV

Certifications And Compliance

Industry Standard(s)	IEEE C57-19.03
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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 - 259-00_4036-3758
Specifications - 250041D25900



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EC-250041D25900-SPEC-EN | REV 3/2025