

SDC™ Composite Bushing - 82kV DC

By Electro Composites
Catalog # 350-030-D-788-00

SDC™ 82kV-3000 A DC Condenser Bushing, Solid-Dielectric-Capacitor Type, Rated per SPECIAL, Bottom Connected for Air-to-Oil Applications, 20.9" Min. Oil Immersion Level/CT Pocket Length, 75.9" 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

Application

DC

General

Bottom Terminal Type	1x Blade with 4x 0.67 Dia Holes
Catalog Number	350-030-D-788-00
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	Silver
Test Tap	Yes
Top Terminal Plating	Silver
Top Terminal Type	3-12
Type	SDC - Solid Dielectric Capacitor

Dimensions

Above Flange Length	41.51 in
Below Flange Length	38.19 in
Diameter - Above Flange Maximum	10.62 in
Diameter - Below Flange Maximum D <gt; 1"	7.75 in
Diameter - Below Flange Maximum P	9.63 in
Diameter - Conductor Outside Under Insulation	3 in



*Representative Image

Diameter - Live Part Bottom	5.50 in
Diameter - Live Part Top	5.50 in
Diameter - Rod / Tube	3 in
Dimensions	79.70 in x 18.00 in x 18.00 in
Effective Length - Bottom Terminal	4.00 in
Effective Length - Top Terminal	4.50 in
Flange Mounting Hole Bolt Circle	15.75 in
Flange Mounting Hole Diameter	1.25 in
Flange Outside Diameter	18 in
Height	18 in
Length	79.7 in
Length - Ground Shield	20.90 in
Length - Insulated Section	67.8 in
Length - Insulation Above Flange	29.60 in
Length - Insulation Below Flange	11.79 in
Length - Live Part Bottom	5.50 in
Length - Live Part Top	6.40 in
Length - Minimum Oil Immersion Level	20.90 in
Sealing Surface Inside Diameter	9.67 in
Sealing Surface Outside Diameter	14.5 in
Thickness	2.375 in
Top Terminal Min. Thread Length	4.5 in
Weight	450 lb
Width	18 in

Electrical Ratings

BIL	350 kV
Current Rating	3000 A
Minimum Creepage	75.9 in
Minimum Strike	32.1 in
Withstand Voltage - 60 Hz Dry kV Class	140 kV 82 kV

Certifications And Compliance

Industry Standard(s)	SPECIAL
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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 - 788-00_6232-7723](#)
[Specifications - 350030D78800](#)
[Video - ElectroComposites Factory Tour: St. Jerome](#)



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