

## SDC™ Composite Bushing - 46kV

By Electro Composites  
Catalog # 250-412-T-691-00

SDC™ 46kV-400/1200 A Transformer-Breaker Condenser Bushing, Solid-Dielectric-Capacitor Type, Rated per IEEE C57.19.01, Bottom-Drawlead Connected for Air-to-Oil Applications, 21" Min. Oil Immersion Level/CT Pocket Length, 44.8" Min. Creepage Length



\*Representative Image

### Features

- SDC™ - Solid Dielectric Capacitance Graded Composite Construction
- EC-APG-02 Cycloaliphatic Epoxy Compound for Optimal Performance
- Meets IEEE C57.19.01 Electrical and Mechanical Requirements
- Can be mounted vertically or horizontally

### Application

Transformer-Breaker

### General

Bottom Terminal Type	1 1/2-12
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	Silver
Top Terminal Type	1 1/2-12
Type	SDC - Solid Dielectric Capacitor

### Dimensions

Above Flange Length	31.19 in
Below Flange Length	33.5 in
Diameter - Above Flange Maximum	8.64 in
Diameter - Below Flange Maximum D <gt;/> 1"	4.15 in
Diameter - Below Flange Maximum P	4.15 in
Diameter - Live Part Bottom	1.50 in
Diameter - Live Part Top	3.50 in
Effective Length - Bottom Terminal	2.38 in
Effective Length - Top Terminal	2.50 in
Flange Mounting Hole Bolt Circle	8.25 in
Flange Mounting Hole Diameter	0.88 in
Flange Outside Diameter Length	9.50 in
Length - Drawlead Above Flange	64.69 in
Length - Ground Shield	27.19 in
Length - Insulation Above Flange	21.00 in
Length - Insulation Below Flange	20.40 in
Length - Live Part Bottom	8.90 in
Length - Live Part Top	3.60 in
Length - Minimum Oil Immersion Level	6.90 in
Sealing Surface Inside Diameter	21.00 in
Sealing Surface Outside Diameter	4.37 in
Stud Inside Diameter	7.37 in
Thread Size - Drawlead Connector	0.88 in
Top Terminal Min. Thread Length	3/4-12
Weight	2.50 in
	86 lb

### Electrical Ratings

BIL	250 kV
Current Rating	400/1200 A

Minimum Creepage	44.80 in
Minimum Strike	22.50 in
Withstand Voltage - 60 Hz Dry	105 kV
kV Class	46 kV

## Certifications and Compliance

Industry Standard(s) IEEE C57.19.01

## Product Assets

[Installation Manuals - SDC™ Bushing General Handling and Maintenance Guide - Electro Composites](#)  
[Literature - Apparatus Bushings Selection Guide \(TD02026E\)](#)  
[Literature - SDC™ GSU Bushings - Electro Composites \(SF02018E\)](#)  
[Literature - SDC™ HV Generator Bushings - Electro Composites \(SF02019E\)](#)  
[Literature - SDC™ HV Bushings - Electro Composites \(SF02017E\)](#)  
[Literature - EC SDC Solid Dielectric Bushings v3](#)  
[Literature - FRENCH V2 - EC Generation Bushings](#)  
[Literature - FRENCH V2 - EC GSU Bushings](#)  
[Literature - How an SDC Bushing Test Tap is Constructed](#)  
[Sales Drawings - 691-00\\_7432-7026](#)  
[Video - ElectroComposites Factory Tour: St. Jerome \(VI00124E\)](#)



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