

SDC™ Composite Bushing - 27.5kV

By Electro Composites
Catalog # 125-004-T-247-00

SDC™ 27.5kV-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, 21.8" Min. Creepage Length



*Representative Image

Features

- SDC™ - Solid Dielectric Capacitance Graded Composite Construction
- EC-APG-02 Cycloaliphatic Epoxy Compound for Optimal Performance
- Meets IEC 60137 Electrical and Mechanical Requirements
- Can be mounted vertically or horizontally

Application

Transformer

General

Bottom Terminal Type	None
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	21.75 in
Below Flange Length	14.88 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 - Live Part Bottom	1.25 in
Diameter - Live Part Top	3.50 in
Effective Length - Top Terminal	4.00 in
Flange Mounting Hole Bolt Circle	7.25 in
Flange Mounting Hole Diameter	0.88 in
Flange Outside Diameter	7.00 in ²
Length	36.63 in
Length - Drawlead Above Flange	16.88 in
Length - Ground Shield	10.00 in
Length - Insulation Above Flange	11.20 in
Length - Insulation Below Flange	4.58 in
Length - Live Part Bottom	0.30 in
Length - Live Part Top	5.80 in
Length - Minimum Oil Immersion Level	10.00 in
Sealing Surface Inside Diameter	4.37 in
Sealing Surface Outside Diameter	6.37 in
Stud Inside Diameter	1.00 in
Thread Size - Drawlead Connector	3/4-10
Top Terminal Min. Thread Length	4.00 in
Weight	35 lb

Electrical Ratings

BIL	125 kV
Current Rating	400 A
Minimum Creepage	21.80 in
Minimum Strike	13.40 in

Withstand Voltage - 60 Hz 55 kV
Dry
kV Class 27.5 kV

Certifications and Compliance

Industry Standard(s) IEC 60137

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 - 247-00_4451-3618](#)
[Video - ElectroComposites Factory Tour: St. Jerome \(VIO0124E\)](#)



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