

SDC™ Composite Bushing - 138kV

By Electro Composites
Catalog # 650-012-T-670-03

SDC™ 138kV-1200 A Transformer Condenser Bushing, Solid-Dielectric-Capacitor Type, Rated per IEEE C57.19.01, Bottom Connected for Air-to-Oil Applications, 23" Min. Oil Immersion Level/CT Pocket Length, 174.5" 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

General

Bottom Terminal Type	CONTACT DISC 7.75 DIA WITH 4x 3/8-16 Holes on 3.75 BC and 8x 1/2-13 on 6.75 BC
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	12
Number of Flange Mounting Holes	6
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	66.75 in
Below Flange Length	46.75 in
Diameter - Above Flange Maximum	11.38 in
Diameter - Below Flange Maximum D <gt;/> 1"	7.11 in
Diameter - Below Flange Maximum P	7.75 in
Diameter - Live Part Bottom	7.75 in
Diameter - Live Part Top	4.50 in
Effective Length - Top Terminal	4.00 in
Flange Mounting Hole Bolt Circle	14.25 in
Flange Mounting Hole Diameter	1.25 in
Flange Outside Diameter	16.50 in
Length	113.50 in
Length - Ground Shield	23.00 in
Length - Insulation Above Flange	56.80 in
Length - Insulation Below Flange	20.65 in
Length - Live Part Bottom	3.10 in
Length - Live Part Top	5.00 in
Length - Minimum Oil Immersion Level	23.00 in
Sealing Surface Inside Diameter	7.14 in
Sealing Surface Outside Diameter	13.00 in
Top Terminal Min. Thread Length	4.00 in
Weight	400 lb

Electrical Ratings

BIL	650 kV
Current Rating	1200 A
Minimum Creepage	174.50 in
Minimum Strike	60.00 in
Withstand Voltage - 60 Hz Dry	310 kV
kV Class	138 kV

Certifications and Compliance

Product Assets

[Installation Manuals - SDC™ Bushing General Handling and Maintenance Guide - Electro Composites](#)
[Literature - Apparatus Bushings Selection Guide \(TDO2026E\)](#)
[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 - 670-03_3848-9124](#)
[Video - ElectroComposites Factory Tour: St. Jerome \(VI00124E\)](#)



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