

SDC™ Composite Bushing - 27.5kV

By Electro Composites
Catalog # 150-012-T-135-10



SDC™ 27.5kV-1200 A Transformer Condenser Bushing, Solid-Dielectric-Capacitor Type, Rated per IEC 60137, Bottom Connected for Air-to-Oil Applications, 10.5" Min. Oil Immersion Level/CT Pocket Length, 45.1" 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 IEC 60137 Electrical and Mechanical Requirements

Application

Transformer

General

Bottom Terminal Type	1 1/2-12
Catalog Number	150-012-T-135-10
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	28.1 in
Below Flange Length	18.86 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 - Conductor Outside Under Insulation	1.5 in
Diameter - Live Part Bottom	1.50 in

Diameter - Live Part Top	3.00 in
Diameter - Rod / Tube	1.5 in
Dimensions	47.00 in x 8.50 in x 8.50 in
Effective Length - Bottom Terminal	3.50 in
Effective Length - Top Terminal	4.53 in
Flange Mounting Hole Bolt Circle	7.25 in
Flange Mounting Hole Diameter	0.63 in
Flange Outside Diameter	8.5 in
Height	8.5 in
Length	47 in
Length - Ground Shield	10.50 in
Length - Insulated Section	37.6 in
Length - Insulation Above Flange	18.20 in
Length - Insulation Below Flange	4.06 in
Length - Live Part Bottom	4.30 in
Length - Live Part Top	5.10 in
Length - Minimum Oil Immersion Level	10.50 in
Sealing Surface Inside Diameter	4.87 in
Sealing Surface Outside Diameter	6.25 in
Thickness	1.325 in
Top Terminal Min. Thread Length	4.53 in
Weight	72 lb
Width	8.5 in

Electrical Ratings

BIL	150 kV
Current Rating	1200 A
Minimum Creepage	45.1 in
Minimum Strike	20.5 in
Withstand Voltage - 60 Hz Dry kV Class	70 kV
	27.5 kV

Certifications And Compliance

Industry Standard(s)	IEC 60137
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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 - 135-10_1910-10116
Specifications - 150012T13510



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