

SDC™ Composite Bushing - 27.5kV

By Electro Composites
Catalog # 125-012-T-131-00

SDC™ 27.5kV-1200 A Transformer Condenser Bushing, Solid-Dielectric-Capacitor Type, Rated per IEC 60137, Bottom Connected for Air-to-Oil Applications, 22.1" Min. Oil Immersion Level/CT Pocket Length, 30.8" 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	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	Tin
Test Tap	Yes
Top Terminal Plating	Tin
Top Terminal Type	1 1/2-12
Type	Condenser Bushings

Dimensions

Above Flange Length	18.88 in
Below Flange Length	30.5 in
Diameter - Above Flange Maximum	8.64 in
Diameter - Below Flange Maximum D <gt;/> 1"	2.98 in
Diameter - Below Flange Maximum P	4.15 in
Diameter - Live Part Bottom	1.50 in
Diameter - Live Part Top	3.00 in
Effective Length - Bottom Terminal	2.50 in
Effective Length - Top Terminal	2.75 in
Flange Mounting Hole Bolt Circle	7.25 in
Flange Mounting Hole Diameter	0.88 in
Flange Outside Diameter	8.63 in
Length	49.38 in
Length - Ground Shield	22.10 in
Length - Insulation Above Flange	11.30 in
Length - Insulation Below Flange	5.20 in
Length - Live Part Bottom	3.20 in
Length - Live Part Top	4.00 in
Length - Minimum Oil Immersion Level	22.10 in
Sealing Surface Inside Diameter	4.37 in
Sealing Surface Outside Diameter	6.37 in
Top Terminal Min. Thread Length	2.75 in
Weight	62 lb

Electrical Ratings

BIL	125 kV
Current Rating	1200 A
Minimum Creepage	30.80 in
Minimum Strike	13.60 in
Withstand Voltage - 60 Hz Dry	55 kV
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 - 131-00_3308-2194
Video - ElectroComposites Factory Tour: St. Jerome (V100124E)



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