

# HUBBELL

## Power Systems

### 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
- No oil, paper or porcelain
- Can be mounted vertically or horizontally
- Meets IEEE C57.19.01 Electrical and Mechanical Requirements

#### General

Application	Transformer
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
Dimensions	113.50 in x 16.50 in x 16.50 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	16.5 in
Height	16.5 in
Length	113.5 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 in
Top Terminal Min. Thread Length	4 in
Weight	400 lb
Width	16.5 in

## Electrical Ratings

BIL	650 kV
Current Rating	1200 A
Minimum Creepage	174.5 in
Minimum Strike	60 in
Withstand Voltage - 60 Hz Dry	310 kV
kV Class	138 kV

## Certifications And Compliance

Industry Standard(s) IEEE C57.19.01

## Product Assets

[Installation Manuals - SDC™ Bushing General Handling and](#)

[Maintenance Guide - Electro Composites](#)

[Sales Drawings - 670-03\\_3848-9124](#)

[Video - ElectroComposites Factory Tour: St. Jerome](#)



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