



## 200A, 35 kV Class Loadbreak Rotatable Feed Thru Insert



## **APPLICATION**

The Chardon Loadbreak Feed Thru Insert threads onto a standard 200A bushing well and provides dual loadbreak bushing interfaces. It can convert radial-feed transformers to feed thru transformers and add in-line arrester protection if needed. The torque limit ratchet feature prevents the bushing well stud from breaking during installation.

The ratchet feature allows users to rotate the feed thru insert for 360° to orient the feed thru insert in the desired position. The Chardon Loadbreak Feed Thru Insert meets all the requirements of IEEE Standard 386, and is fully interchangeable with competitor's products and mating products that also meet IEEE Standard 386.

When installed with mating components, the Feed Thru Insert provides a fully shielded and fully submersible connection for loadbreak applications.

## **PRODUCTION TESTS**

#### Tests conducted in accordance with IEEE/ANSI Standard 386.

- / Minimum Corona Voltage Level 26 kV
- / AC 1 Minute Withstand 50 kV

#### Tests conducted in accordance with Chardon manufacturing process requirements:

- Physical Inspection
- Periodic Dissection
- Periodic X-ray Analysis

## **VOLTAGE RATINGS**

Voltage Class	35 kV
Max. Rating Phase to Phase	36.6 kV
Max. Rating Phase to Ground	21.1 kV
AC 1 Minute Withstand	50 kV
DC 15 Minute Withstand	103 kV
BIL and Full Wave Crest	150 kV
Minimum Corona Voltage Level	26 kV

<sup>• 35-</sup>LFTI200-060223-REV02

## **CURRENT RATINGS**

Description	Test Parameters	
Continuous	200 amps rms	
Switching	10 operations at 200 amps rms at 36.6 kV	
Fault Close	10,000 amps rms symmetrical at 36.6 kV for 0.17 s after 10 consecutive successful switching operations	
Short Time	• 10,000 amps rms symmetrical for 0.17 s • 3,500 amps rms symmetrical for 3.0 s	

# DETAILED COMPOSITION OF THE CHARDON LOADBREAK FEED THRU INSERT

#### **I** ARC SNUFFER ASSEMBLY

Arc quenching material extinguishes gas during loadbreak operations.

#### **I STOP RING**

Limits piston and finger contact travel during fault close.

#### / FINGER CONTACT

Tin plated copper contact provides a consistent current transfer during switching and fault close operations.

#### / INSULATION LAYER

High quality peroxide cured EPDM insulation is mixed and formulated in-house for complete control of rubber resistance.

#### **/** COPPER BUS BAR

Provide consistent current carry capability during operation.

## Locking groove assure

Locking groove assures proper installation by "locking" into elbow.

#### / INDICATOR RING

Bright yellow ring provides close indication and assures a quality connection.

#### **/** CONDUCTING SHIELD

Precision molded peroxide cured conducting shield provides ground shield continuity.

#### **I TORQUE-LIMITING RATCHET**

The ratchet feature allows users to rotate the feedthru insert for 360° to orient the feedthru insert in the desired position and protect the stud from damaging.

**1** 3/8- 16 UNC Threads

## **ORDERING INFORMATION**

#### 35kV,200A Loadbreak Feed Thru Insert

35-LFTI

#### **Each kit contains:**

- / Rotatable Feed Thru Insert
- Shipping Cap (not for energized operation)
- Stainless Steel Bail Assembly
- / Silicone Lubricant
- Installation Instruction Sheet

#### **Replacement Part**

**Bail Assembly** 

35-BAIL-LFTI



