

## Technical Description

### ERMCO Components, Inc. SURE MAKE<sup>®</sup> 200 AMP, 35 kV CLASS 3 $\phi$ RATED INTEGRATED BUSHING

#### Model Number 9U02DBC001

The ERMCO Components, Inc. SURE MAKE separable connector 200 amp, 35 kV Class Three  $\phi$  Rated Loadbreak Integrated Bushing meets all requirements of ANSI/IEEE Std. 386 - Separable Insulated Connector Systems, and combines the advantages of reliable one-piece design with the operating features required for underground distribution switching. The bushing is designed for padmounted transformers, switchgear and other apparatus filled with transformer oil.

The 9U02DBC001 integrated bushing when mated with an appropriate elbow meets the requirements of ANSI/IEEE Std. 386 pertaining to switching, fault closure, interchangeability, voltage and current withstand and corona extinction when installed in accordance with the published SURE MAKE instructions.

#### DESIGN FEATURES:

- Insulating body is molded of an epoxy formulation designed for excellent electrical and mechanical properties.
- The ground shield coating is oil resistant. The coating covers the area, from the elbow cuff mating surface and extends 0.50 inch beyond the sealing gasket through the tank wall.
- All copper current path ensures the coolest operating temperature and highest reliability.
- Gasket location and compression are controlled by the molded in gasket retaining ring.
- Dimensions comply with ANSI/IEEE 386 Std. for Separable Insulated Connectors.
- Uses tank mounting hole of 2.75 inches diameter.
- Recommended torque values: External clamp is 80 inch lbs, Internal connection is 80 inch lbs.

#### RATINGS:

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|---|---|
| • Maximum Continuous Voltage                | 35 kV RMS   |
| • Maximum Continuous Line to Ground Voltage | 21.1kV RMS  |
| • Maximum Continuous Line to Line Voltage   | 36.6kV RMS  |
| • Continuous Current                        | 200 AMP RMS   |
| • Switching                                 | 10 Operations at 200 amp RMS at 36.6kV  |
| • Fault Closure                             | 10,000 amp RMS Symmetrical at 36.6kV<br>After 10 Switching Operations for 0.17 seconds. |
| • Short-Time Current Rating:                |   |
| 0.17 second duration                        | 10,000 AMP RMS SYM  |
| 3.0 second duration                         | 3,500 AMP RMS SYM   |
| • Basic Impulse Level                       | 150kV Crest   |
| (1.2 x 50 micro-second wave)                |   |
| • 60 HERTZ Hipot (one minute)               | 50kV RMS  |
| • DC hipot (15 minutes)                     | 103kV   |
| • Corona Extinction Voltage                 | 26kV RMS  |
| (3 pico-coulombs)                           |   |
| Outline Drawing:                            | 32B028015   |