

# RECLOSER WILDLIFE GUARD

## PRODUCT INFORMATION SHEET

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*Central Moloney's Recloser Wildlife Guard is the most universal, economical and effective defense against wildlife intrusion available.*



Central Moloney's Recloser Wildlife Guards are designed to mount securely between the first and second skirt nearest the high voltage terminal on both the vertical and horizontal terminations. The Recloser Wildlife Guard consists of two iden-

tical halves that snap together with four latches that can be easily released for removal and reuse. Molded-in, longitudinal recesses provide comfortable grasping points for closing the guard. Wide cable ports at the top and sides of the guard accommodate various cable sizes and allow easy infrared scanning. Semi-flexible combs easily form around cables but block access to curious wildlife.

### SUPERIOR DESIGN

The Recloser Wildlife Guard is molded from premium grade, weather resistant, UV stabilized polypropylene copolymer. Central Moloney Components has over 20 years of excellent experience with this material in numerous wildlife guard designs. Accelerated UV testing in the Arizona desert, utilizing a combination of concentrated natural sunlight and simulated moisture cycles, has proven this material will hold up in the toughest

of conditions for decades. Now available in both solid or meshed wall construction, standard molding or flame retardant molding compounds.

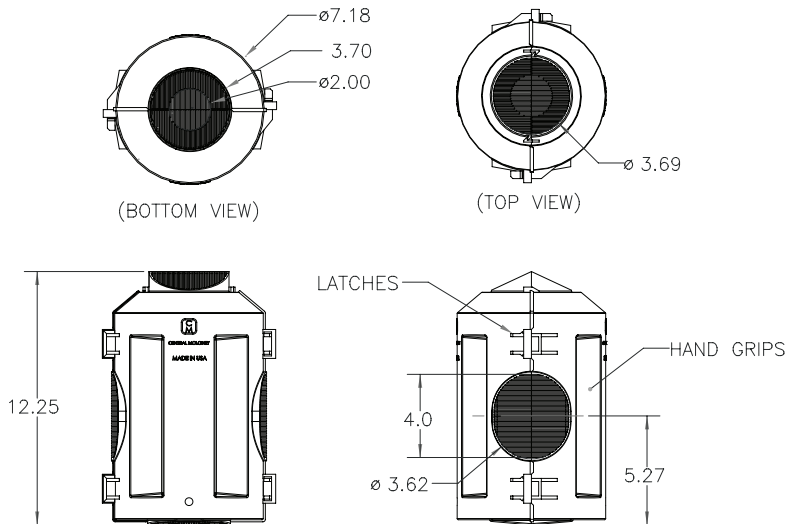
### APPLICATION

The Recloser Wildlife Guard has been designed for installation on Reclosers and Regulators for overhead distribution systems rated 15 to 35 KVA class. The Recloser Guard will accommodate bushing skirt diameters of up to a maximum of seven inches.

### ORDERING

Reference Part #**70380463** for solid wall and Part #**70380483** for meshed wall construction. For efficient packing and freight savings, the guard is shipped unassembled with the guard halves nested in the box. Standard box count is 30 pieces.

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## TESTING

The following tests have been conducted on production guards to verify performance on electrical apparatus up to 35 KV Class (15.0KV line to ground).

**Lightning Impulse Withstand:** When tested in accordance with IEEE Std. 4 - 1995, each guard withstood three positive and three negative 150kV BIL impulse waves without disruptive discharge or flashover.

**Dry Withstand - Exterior Surface Grounded:** The entire exterior surface of the guard to within 2" of the energized conductor was grounded with copper mesh. A voltage of 24 kV (20% greater than maximum rated line to ground) was applied to the exposed conductor and held for one minute. No electrical flashovers or punctures occurred.

**Dry Power Frequency Flashover:** The flashover value of the base test fixture (without guard installed) was determined by averaging five consecutive flashover tests. This value was determined to be >85 kV. With the guards installed, the average flashover value was >85 kV.

**Wet Withstand - Exterior Surface Grounded:** Precipitation conditions were established in accordance with IEEE Std 4 -1995, 14.2 Table 3, "Conventional Procedure - USA".

The entire exterior surface of the guard within 2" of the energized conductor was grounded with copper mesh. A voltage of 26kV (20% greater than maximum rated line to ground) was applied to the ex-

posed conductor and held for one minute. No electrical flashovers or punctures occurred.

**Wet Power Frequency Flashover:** Precipitation conditions were established in accordance with IEEE Std 4 -1995, 14.2 Table 3, "Conventional Procedure - USA".

The flashover value of the base test fixture (without guard installed) was determined by averaging five consecutive flashover tests. This value was determined to be 71 kV. With the guards installed, the average flashover value was 66 kV (93% of the base value).

**Radio Influence Voltage:** The RIV value of the base test fixture (without guard installed) was less than 100 microvolts. With the guard installed, the RIV value was still less than 100 microvolts.

## MATERIAL TESTS

The following laboratory tests were performed on material samples representative of typical production lots.

**Dielectric Constant:** Tested in accordance with ASTM D 150, the dielectric constant (100kHz) of the material is 2.10 - 2.15.

**Dielectric Strength:** Tested in accordance with ASTM D 149, the dielectric strength of the material is 22 - 23 kV/mm.

**Ultraviolet Aging:** The test samples consisted of two 1" x 5" sections removed from standard production guards. Testing was conducted on a Q-Trac natural sunlight concentrator at the Q-Panel Weath-



ering Research facility in Buckeye, Arizona. Exposure time was 6 months, which approximates 8-10 years of typical outdoor exposure or 4-5 years of severe outdoor exposure. A nightly water spray cycle was included to simulate the effect of dew and rainfall.

Samples returned at the conclusion of the test were still in good condition. Functionally, the material was still completely intact and flexible with no cracking or embrittlement. The cosmetic appearance of the samples also remained good, with only very minor surface chalking as evidence of the exposure.

**Retention Testing:** While installed on the test fixture with the cable opening oriented for maximum wind exposure, the guards remained properly installed when exposed to a constant wind velocity of 85 mph.

## ABOUT US

Central Moloney Components has built an established record through incredible growth in advanced manufacturing technology. Since its inception in 1970, Components has been constantly searching for new ways to improve the performance and reliability of our products. Innovation, design quality, flexibility and delivery are all a part of the continuing story of Components.



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