

# M3 SWITCH DISTRIBUTION CLASS

## Ordering Information

RUS Listed

**M3** - **B**

### BASE

**D** = Distribution base, hat-shaped serrated slots with four  $\frac{3}{8}$ " x 8" carriage bolts and backstrap.

**H** = Distribution base, hat-shaped, smooth slots with four  $\frac{1}{2}$ " x 8" carriage bolts and backstrap.

6= 600 Amp Continuous current rated  
9= 900 Amp Continuous current rated

### 2 1/4" BOLT CIRCLE INSULATION SYSTEM

2.=14.4 kV Nominal, 15.5 kV Maximum, 110 kV BIL  
3.=25 kV Nominal, 27 kV Maximum, 125 kV BIL  
4.=34.5 kV Nominal, 38 kV Maximum, 150 kV BIL

### OPTIONS available for the M3 (List in alpha sequence; Maximum of four options)

**C = Terminal Hardware.** Consists of 4 each:  $\frac{1}{2}$ -13 stainless steel bolts,  $\frac{1}{2}$ -inch flatwasher,  $\frac{1}{2}$ -inch lockwasher,  $\frac{1}{2}$ -13 nut.

**L = Open Position Latch.** This is a stainless steel latch to aid in holding the blade in the 160° open position.

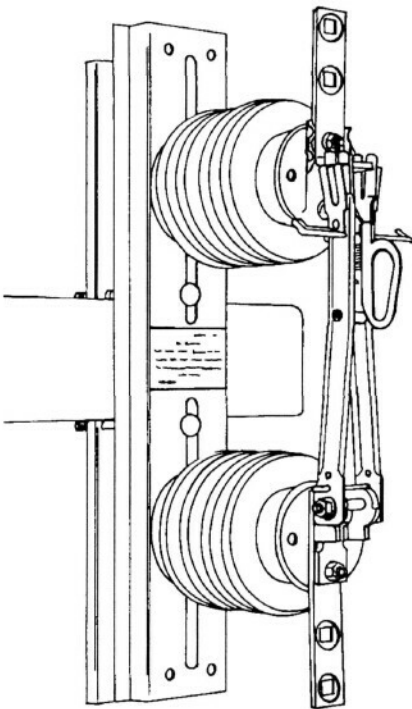
**D = Deadend Brackets.** Two brackets and attachment hardware are hot dip galvanized to ASTM A153 for corrosion protection. Brackets have an 8,000-lb. pull-off rating.

**P = Parallel Groove Terminal Connectors and Hardware.** Two complete connectors and hardware are supplied with this option. The connectors will accept from #2 solid through 500 kcmil (copper or aluminum), same as Chance Catalog No. ATC-1343.

**E = Polymer Insulators.** The distribution insulators, 2.25-inch bolt circle, are available in a U.S. manufactured polymeric epoxy design. They are light weight, durable and offer long term performance in every type of environment.

**R = By-pass Studs.** Two copper alloy by-pass studs, which can be used for regulator or recloser by-passing, are provided with this option. The copper alloy provides superior corrosion protection as well as high conductivity and is designed to accept a variety of Chance hot line clamps as shown in Section 13 of the Chance catalog.

**9 = 9-inch Carriage Bolts.**





# CHANCE

## TYPE M3 HOOKSTICK DISCONNECT SWITCHES

15-38kV      600 or 900 Amp

### Application

The Chance Type M3 Disconnect Switch is a single-phase hookstick operated switch. It is for manual switching of overhead lines on an electrical distribution system of up to 38 kV. Design variations allow for applications as an electrical substation switch. Rated for 600 or 900 amperes continuous, and 40,000 amperes momentary the M3 may be applied on:

- Dip/Riser poles
- Single crossarm
- Double crossarm
- Aluminum or steel equipment mount

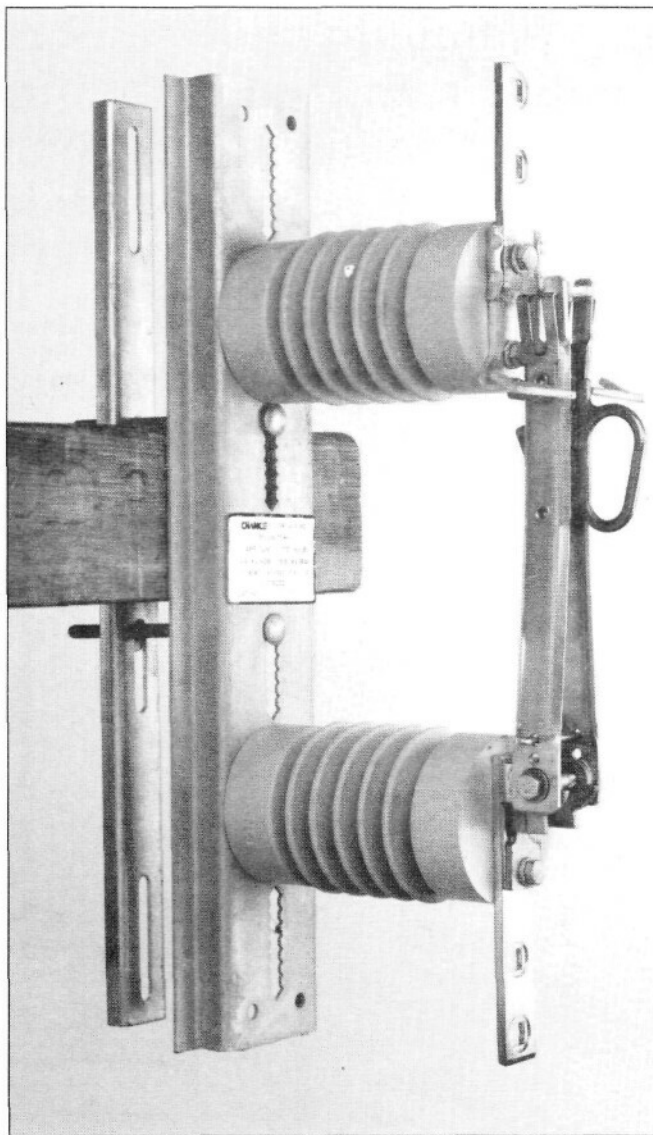
and wherever a disconnect switch is desirable for line sectionalizing. The addition of optional by-pass studs allows for by-passing reclosers, regulators or metering devices.

The substation style M3 disconnect is made for mounting on a steel structure or on a pole mounted aluminum or steel equipment mount.

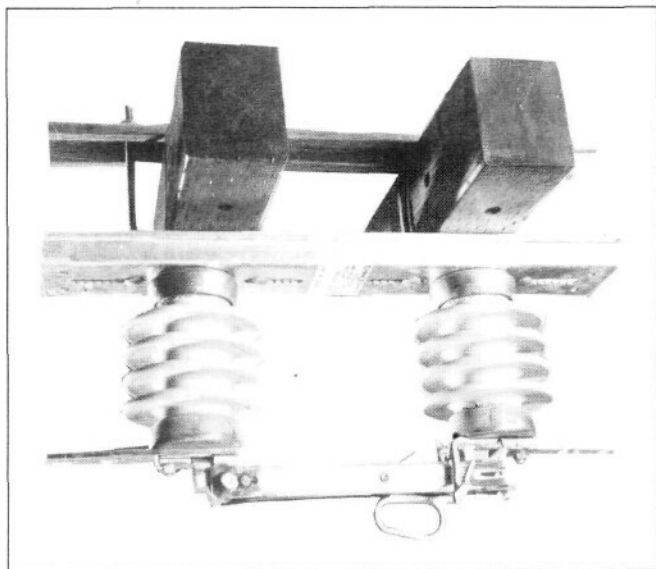
A properly rated M3 should be selected for each installation with consideration to continuous current, BIL and rated voltage.

### Electrical ratings of insulators

The Sky-Glaze horizon-blending 2.25-inch bolt circle insulators provide 110, 125 and 150 kV BIL for the 15.5, 27 and 38kV ratings respectively. These are available in either a porcelain or polymeric (cycloaliphatic) insulator, both manufactured in the U.S. The 3-inch bolt circle porcelain insulator gives 110 and 150 kV BIL for the 15 and 27 kV substation switches.



*Vertical mounted M3 with light weight polymer distribution insulators.*



*Underhung mounted M3.*

### Operation

All Chance M3 disconnect switches include loadbreak hooks which serve both as a blade closing guide and for use with a portable loadbreak tool. To open the switch under load, use only an approved loadbreak tool and refer to the tool's manufacturer for instructions.

Positive latching eliminates any nuisance or unintentional opening. Silver-plating on the contact areas assures efficient current transfer. For easy opening and ice-breaking action, the pull ring activates the latch as a pry-out lever.