



# **Ferraz Shawmut**

## **Current-Limiting Power Fuses**

formally GE Current-Limiting Power Fuses



Ferraz Shawmut LLC acquired General Electric's Power Fuse operations from GE Consumer & Industrial on December 3rd, 2007. Since then, all Current-Limiting Power Fuses, Fuse Supports, Fuse Disconnect Switches and Spare Parts offered by GE are now available from Ferraz Shawmut and will bring a strategic complement to our existing Medium Voltage fuse line.

#### **9F60 series, EJ-2 type (Motor Starters) (U/L Recognized)**

Backup current-limiting power fuses designed to provide short circuit protection of individual motors. These fuses are designed to interrupt current from 100 times the R-rating up to 50kA rms symmetrical at rated voltage. The elements of these fuses are designed to withstand the cyclic motor-starting application.



#### **9F60 series, EJ-5 / EJO-5 type (Capacitor)**

Special-purpose fuses designed for individual capacitor protection. The EJ-5 is designed for use indoors or inside an enclosure only. The EJO-5 models can be used outdoors. The major purposes of such fusing are: (a) to protect the systems from failed capacitor units, and (b) to prevent damage to adjacent capacitors and associated equipment.



#### **9F60 series, EJ-1 / EJO-1 type (Power Distribution)**

Current limiting power fuses designed not only to interrupt the high-fault currents but also to interrupt low-fault currents down to approximately 3 times their continuous rating. The EJO-1 models can be used outdoors without any protecting enclosure.



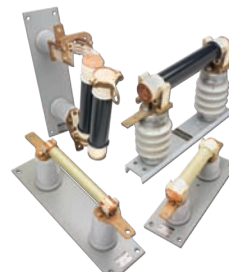
#### **9F62 series, EJO-1 type (General Purpose) (U/L Listed)**

General Purpose current-limiting fuses designed to interrupt the high-fault currents and also the low-fault currents down to approximately 1.6 times their continuous current rating. These fuses can be used outdoors without any protecting enclosure.



#### **9F61 series, EK-1 / EKO-1 (Fuse Supports)**

Mountings of the non-disconnecting type are available. They are used primarily in potential transformer circuits, or where there is some other disconnecting or isolating device in series with the fuse in the circuit. Fuse supports can be mounted vertically or horizontally. The EKO-1 models are designed to be installed outdoors.



#### **9F61 series, EK-3 / EKO-3 (Fuse Disconnect Switches)**

These devices have the additional feature of serving as disconnecting switches to isolate the equipment they protect. It should be noted that the disconnecting switches are not load-breaking devices, therefore the circuit must be open prior to the fuse disconnection. The EKO-3 models are designed to be installed outdoors.



#### **9F59U series, ETP type (Distribution Applications)**

Backup current-limiting fuses designed to protect external transformers are used in series with another protective device (such as an expulsion fuse). This combination limits the high-fault current to a safe level, thus providing protection through the complete range.



#### **9F59T series, OSP type (Distribution Applications)**

Backup current-limiting fuses are designed to be used in series with another protective device (such as an expulsion fuse) to give protection through the complete range. OSP stands for Oil Submerged Protector. These fuses are sealed against the ingress of oil. Each fuse is given a helium mass spectrometer leak test to prove the integrity of the seal.

For additional information please consult our website [us.ferrazshawmut.com](http://us.ferrazshawmut.com) or contact our technical support team.

## Current-Limiting Power Fuses



### Application

Medium-voltage distribution systems that supply industrial plants, shopping centers, hospitals, schools, office buildings and underground residential service often require special types of overcurrent protection. This is of particular importance because, in the event of a fault, these types of systems frequently produce high short-circuit currents that may result in damage to busway, motors, switches and other equipment. Current-limiting power fuses are widely used in these applications because they afford excellent over-current protection and noiseless operation, and because they can be used in confined spaces. The amount of damage in the faulted area and the mechanical stress and strain on busway, switches and other apparatus carrying the fault current is proportional to the square of the current and to the length of time the fault persists. By limiting the let through energy at the fault, properly applied current-limiting fuses assist in limiting or preventing short-circuit damage to busway, circuit breakers, switches, and other electrical components. Current-limiting power fuses are manufactured in ratings ranging from 0.6 kV through 38 kV and in continuous current ratings from 0.5 amperes through 900 amperes. Various designs are available for use with motors, transformers, capacitors, and circuit-protection equipment.

### Product Features

Current-limiting power fuses offer significant advantages for protecting electrical power systems and equipment. Advantages include:

- High interrupting capacity
- Noiseless operation, since the interruption is totally contained
- Fast current-limiting operation when troublesome high available fault currents are encountered
- No pressure build-up, therefore, no vents or special reinforced compartments are required

### Capacitor Fuses

#### 9F60 Series

#### EJO-5 9F60

Suitable for use indoors or outdoors



### Product Description

Backup Capacitor current-limiting fuses are designed for individual capacitor protection. The EJO-5 can be used in any location (indoor or outdoor). The major purposes of such fusing are: (a) to protect the systems from failed capacitor units, and (b) to prevent damage to adjacent capacitors and associated equipment.

### 12" Clip Centers Clip-in Mounting<sup>1</sup> Indoor or Outdoor

| Catalog Number | Max. kV | Amp Rating | No. of Barrels | Indicating | Size/Diam/Length | I/C Sym. | TCC min/max GES |
|----------------|---------|------------|----------------|------------|------------------|----------|-----------------|
| 9F60RJD025     | 5.5     | 25         | 1              | YES        | C/2.08"/14.00"   | 50kA     | 8118/8119       |
| 9F60RJD040     | 5.5     | 40         | 1              | YES        | C/2.08"/14.00"   | 50kA     | 8118/8119       |
| 9F60RJD080     | 5.5     | 80         | 1              | YES        | C/2.08"/14.00"   | 50kA     | 8120/8121       |
| 9F60RJF015     | 9.52    | 15         | 1              | YES        | C/2.08"/14.00"   | 50kA     | 8118/8119       |
| 9F60RJF025     | 9.52    | 25         | 1              | YES        | C/2.08"/14.00"   | 50kA     | 8120/8121       |
| 9F60RJF040     | 9.52    | 40         | 1              | YES        | C/2.08"/14.00"   | 50kA     | 8120/8121       |

<sup>1</sup>EJO-5 capacitor fuses are typically mounted directly on the capacitor. No supports, disconnect switches, or live parts are available.

# Current-Limiting Power Fuses

## General Purpose Fuses

9F62 Series

EJO-1 General Purpose

UL Listed

Suitable for use indoors or outdoors

### Product Description

General Purpose current-limiting fuses are designed to interrupt the high-fault currents and also the low-fault currents down to approximately 1.6 to 2.2 times their continuous current rating. This fuse is defined in the IEEE Std C37.40 -1993 (3.1.57) as "A fuse capable of interrupting all currents from the rated interrupting current down to the current that causes melting of the fusible element in no less than one hour." These fuses can be used outdoors without any protecting enclosure. Available from 5.5 to 15.5kV and 20 to 900A.



### 12" Clip Centers Clip-in Mounting Indoor or Outdoor

| Catalog Number | Max kV | Amp Rating | No. of Barrels | Indicating | Size/Diam/Length | I/C Sym. | TCC min/max GES | Fuse Support, Indoor | Fuse Support, Outdoor | Disconnecting Switch, Indoor | Disconnecting Switch, Outdoor |
|----------------|--------|------------|----------------|------------|------------------|----------|-----------------|----------------------|-----------------------|------------------------------|-------------------------------|
| 9F62HCB025     | 5.5    | 25         | 1              | YES        | C/2"/14.18"      | 50 kA    | 8134/8135       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F62HCB030     | 5.5    | 30         | 1              | YES        | C/2"/14.18"      | 50 kA    | 8134/8135       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F62HCB040     | 5.5    | 40         | 1              | YES        | C/2"/14.18"      | 50 kA    | 8134/8135       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F62HCB050     | 5.5    | 50         | 1              | YES        | C/2"/14.18"      | 50 kA    | 8134/8135       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F62HCB065     | 5.5    | 65         | 1              | YES        | C/2"/14.18"      | 50 kA    | 8134/8135       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F62DCB080     | 5.5    | 80         | 1              | YES        | D/3"/15.88"      | 50 kA    | 8134/8135       | 9F61AEB301           | 9F61CEF309            | 9F61AEB305                   | 9F61CEF310                    |
| 9F62DCB100     | 5.5    | 100        | 1              | YES        | D/3"/15.88"      | 50 kA    | 8134/8135       | 9F61AEB301           | 9F61CEF309            | 9F61AEB305                   | 9F61CEF310                    |
| 9F62DCB125     | 5.5    | 125        | 1              | YES        | D/3"/15.88"      | 50 kA    | 8134/8135       | 9F61AEB301           | 9F61CEF309            | 9F61AEB305                   | 9F61CEF310                    |
| 9F62DCB150     | 5.5    | 150        | 1              | YES        | D/3"/15.88"      | 50 kA    | 8134/8135       | 9F61AEB301           | 9F61CEF309            | 9F61AEB305                   | 9F61CEF310                    |
| 9F62DCB175     | 5.5    | 175        | 1              | YES        | D/3"/15.88"      | 50 kA    | 8134/8135       | 9F61AEB301           | 9F61CEF309            | 9F61AEB305                   | 9F61CEF310                    |
| 9F62DCB200     | 5.5    | 200        | 1              | YES        | D/3"/15.88"      | 50 kA    | 8134/8135       | 9F61AEB301           | 9F61CEF309            | 9F61AEB305                   | 9F61CEF310                    |
| 9F62FCB250     | 5.5    | 250        | 2              | YES        | DD/(2) 3"/15.88" | 50 kA    | 8134/8135       | 9F61AEB401           | 9F61CEF409            | 9F61AEB405                   | 9F61CEF410                    |
| 9F62FCB300     | 5.5    | 300        | 2              | YES        | DD/(2) 3"/15.88" | 50 kA    | 8134/8135       | 9F61AEB401           | 9F61CEF409            | 9F61AEB405                   | 9F61CEF410                    |
| 9F62FCB350     | 5.5    | 350        | 2              | YES        | DD/(2) 3"/15.88" | 50 kA    | 8134/8135       | 9F61AEB401           | 9F61CEF409            | 9F61AEB405                   | 9F61CEF410                    |
| 9F62FCB400     | 5.5    | 400        | 2              | YES        | DD/(2) 3"/15.88" | 50 kA    | 8134/8135       | 9F61AEB401           | 9F61CEF409            | 9F61AEB405                   | 9F61CEF410                    |
| 9F62FCB450     | 5.5    | 450        | 2              | YES        | DD/(2) 3"/15.88" | 50 kA    | 8134/8135       | 9F61AEB401           | 9F61CEF409            | 9F61AEB405                   | 9F61CEF410                    |
| 9F62HCC020     | 8.3    | 20         | 1              | YES        | C/2"/14.18"      | 50 kA    | 8136/8137       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F62HCC025     | 8.3    | 25         | 1              | YES        | C/2"/14.18"      | 50 kA    | 8136/8137       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F62HCC030     | 8.3    | 30         | 1              | YES        | C/2"/14.18"      | 50 kA    | 8136/8137       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F62HCC040     | 8.3    | 40         | 1              | YES        | C/2"/14.18"      | 50 kA    | 8136/8137       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F62HCC050     | 8.3    | 50         | 1              | YES        | C/2"/14.18"      | 50 kA    | 8136/8137       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F62DCC065     | 8.3    | 65         | 1              | YES        | D/3"/15.88"      | 50 kA    | 8136/8137       | 9F61AEG301           | 9F61CEF309            | 9F61AEG305                   | 9F61CEF310                    |
| 9F62DCC080     | 8.3    | 80         | 1              | YES        | D/3"/15.88"      | 50 kA    | 8136/8137       | 9F61AEG301           | 9F61CEF309            | 9F61AEG305                   | 9F61CEF310                    |
| 9F62DCC100     | 8.3    | 100        | 1              | YES        | D/3"/15.88"      | 50 kA    | 8136/8137       | 9F61AEG301           | 9F61CEF309            | 9F61AEG305                   | 9F61CEF310                    |
| 9F62DCC125     | 8.3    | 125        | 1              | YES        | D/3"/15.88"      | 50 kA    | 8136/8137       | 9F61AEG301           | 9F61CEF309            | 9F61AEG305                   | 9F61CEF310                    |
| 9F62DCC150     | 8.3    | 150        | 1              | YES        | D/3"/15.88"      | 50 kA    | 8136/8137       | 9F61AEG301           | 9F61CEF309            | 9F61AEG305                   | 9F61CEF310                    |
| 9F62FCC175     | 8.3    | 175        | 2              | YES        | DD/(2) 3"/15.88" | 50 kA    | 8136/8137       | 9F61AEG401           | 9F61CEF409            | 9F61AEG405                   | 9F61CEF410                    |
| 9F62FCC200     | 8.3    | 200        | 2              | YES        | DD/(2) 3"/15.88" | 50 kA    | 8136/8137       | 9F61AEG401           | 9F61CEF409            | 9F61AEG405                   | 9F61CEF410                    |
| 9F62FCC250     | 8.3    | 250        | 2              | YES        | DD/(2) 3"/15.88" | 50 kA    | 8136/8137       | 9F61AEG401           | 9F61CEF409            | 9F61AEG405                   | 9F61CEF410                    |

## Current-Limiting Power Fuses

### Bolted End Fittings Indoor or Outdoor

| Catalog Number | Max.kV | Amp Rating | No. of Barrels | Indicating | Size/Diam/Length                               | I/C Sym. | TCC min/max GES | Fuse Support, Indoor | Fuse Support, Outdoor | Disconnecting Switch, Indoor | Disconnecting Switch, Outdoor |
|----------------|--------|------------|----------------|------------|------------------------------------------------|----------|-----------------|----------------------|-----------------------|------------------------------|-------------------------------|
| 9F62KCB500     | 5.5    | 500        | 4              | YES        | DDDD/(4) 3"/see outline drawing for dimensions | 50 kA    | 8134/8135       | 9F61AKB001           | 9F61CKF009            | –                            | –                             |
| 9F62KCB600     | 5.5    | 600        | 4              | YES        | DDDD/(4) 3"/see outline drawing for dimensions | 50 kA    | 8134/8135       | 9F61AKB001           | 9F61CKF009            | –                            | –                             |
| 9F62KCB700     | 5.5    | 700        | 4              | YES        | DDDD/(4) 3"/see outline drawing for dimensions | 50 kA    | 8134/8135       | 9F61AKB001           | 9F61CKF009            | –                            | –                             |
| 9F62KCB800     | 5.5    | 800        | 4              | YES        | DDDD/(4) 3"/see outline drawing for dimensions | 50 kA    | 8134/8135       | 9F61AKB001           | 9F61CKF009            | –                            | –                             |
| 9F62KCB900     | 5.5    | 900        | 4              | YES        | DDDD/(4) 3"/see outline drawing for dimensions | 50 kA    | 8134/8135       | 9F61AKB001           | 9F61CKF009            | –                            | –                             |

# Current-Limiting Power Fuses

## 15"Clip Centers Clip-in Mounting Indoor or Outdoor

| Catalog Number | Max.kV | Amp Rating | No. of Barrels | Indicating | Size/Diam/Length | I/C Sym. | TCC min/max GES | Fuse Support, Indoor                                                                   | Fuse Support, Outdoor | Disconnecting Switch, Indoor                                                           | Disconnecting Switch, Outdoor |
|----------------|--------|------------|----------------|------------|------------------|----------|-----------------|----------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------|-------------------------------|
| 9F62HDD020     | 15.5   | 20         | 1              | YES        | C/2"/17.20"      | 50 kA    | 8138/8139       | 9F61AGG201<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ201<br>(14.4kV nominal 110 kV BIL) | 9F61CGL209            | 9F61AGG205<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ205<br>(14.4kV nominal 110 kV BIL) | 9F61CGL210                    |
| 9F62HDD025     | 15.5   | 25         | 1              | YES        | C/2"/17.20"      | 50 kA    | 8138/8139       | 9F61AGG201<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ201<br>(14.4kV nominal 110 kV BIL) | 9F61CGL209            | 9F61AGG205<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ205<br>(14.4kV nominal 110 kV BIL) | 9F61CGL210                    |
| 9F62HDD030     | 15.5   | 30         | 1              | YES        | C/2"/17.20"      | 50 kA    | 8138/8139       | 9F61AGG201<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ201<br>(14.4kV nominal 110 kV BIL) | 9F61CGL209            | 9F61AGG205<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ205<br>(14.4kV nominal 110 kV BIL) | 9F61CGL210                    |
| 9F62DDD050     | 15.5   | 50         | 1              | YES        | D/3"/18.88"      | 50 kA    | 8138/8139       | 9F61AGG301<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ301<br>(14.4kV nominal 110 kV BIL) | 9F61CGL309            | 9F61AGG305<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ305<br>(14.4kV nominal 110 kV BIL) | 9F61CGL310                    |
| 9F62DDD065     | 15.5   | 65         | 1              | YES        | D/3"/18.88"      | 50 kA    | 8138/8139       | 9F61AGG301<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ301<br>(14.4kV nominal 110 kV BIL) | 9F61CGL309            | 9F61AGG305<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ305<br>(14.4kV nominal 110 kV BIL) | 9F61CGL310                    |
| 9F62DDD080     | 15.5   | 80         | 1              | YES        | D/3"/18.88"      | 50 kA    | 8138/8139       | 9F61AGG301<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ301<br>(14.4kV nominal 110 kV BIL) | 9F61CGL309            | 9F61AGG305<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ305<br>(14.4kV nominal 110 kV BIL) | 9F61CGL310                    |
| 9F62DDD100     | 15.5   | 100        | 1              | YES        | D/3"/18.88"      | 50 kA    | 8138/8139       | 9F61AGG301<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ301<br>(14.4kV nominal 110 kV BIL) | 9F61CGL309            | 9F61AGG305<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ305<br>(14.4kV nominal 110 kV BIL) | 9F61CGL310                    |
| 9F62FDD125     | 15.5   | 125        | 2              | YES        | DD/(2)3"/18.88"  | 50 kA    | 8138/8139       | 9F61AGG401<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ401<br>(14.4kV nominal 110 kV BIL) | 9F61CGL409            | 9F61AGG405<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ405<br>(14.4kV nominal 110 kV BIL) | 9F61CGL410                    |
| 9F62FDD150     | 15.5   | 150        | 2              | YES        | DD/(2)3"/18.88"  | 50 kA    | 8138/8139       | 9F61AGG401<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ401<br>(14.4kV nominal 110 kV BIL) | 9F61CGL409            | 9F61AGG405<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ405<br>(14.4kV nominal 110 kV BIL) | 9F61CGL410                    |
| 9F62FDD175     | 15.5   | 175        | 2              | YES        | DD/(2)3"/18.88"  | 50 kA    | 8138/8139       | 9F61AGG401<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ401<br>(14.4kV nominal 110 kV BIL) | 9F61CGL409            | 9F61AGG405<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ405<br>(14.4kV nominal 110 kV BIL) | 9F61CGL410                    |
| 9F62FDD200     | 15.5   | 200        | 2              | YES        | DD/(2)3"/18.88"  | 50 kA    | 8138/8139       | 9F61AGG401<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ401<br>(14.4kV nominal 110 kV BIL) | 9F61CGL409            | 9F61AGG405<br>(13.8kV nominal 95 kV BIL),<br>9F61AGJ405<br>(14.4kV nominal 110 kV BIL) | 9F61CGL410                    |

## Bolted End Fittings Indoor or Outdoor

| Catalog Number | Max.kV | Amp Rating | No. of Barrels | Indicating | Size/Diam/Length                               | I/C Sym. | TCC min/max GES | Fuse Support, Indoor                                                                     | Fuse Support, Outdoor | Disconnecting Switch, Indoor | Disconnecting Switch, Outdoor |
|----------------|--------|------------|----------------|------------|------------------------------------------------|----------|-----------------|------------------------------------------------------------------------------------------|-----------------------|------------------------------|-------------------------------|
| 9F62KED300     | 15.5   | 300        | 4              | YES        | DDDD/(4) 3"/see outline drawing for dimensions | 50 kA    | 8138/8139       | 9F61AHG001<br>(13.8KV nominal, 95 kV BIL),<br>9F61AHJ001<br>(14.4KV nominal, 110 kV BIL) | 9F61CHL009            | N/A                          | N/A                           |

# Current-Limiting Power Fuses

## Power Distribution Fuses

9F60 Series, “E” Rated

EJ-1

Suitable for use indoors or in an enclosure only

### Product Description

Power distribution current-limiting fuses are designed not only to interrupt the high-fault currents but also to interrupt lowfault currents down to approximately 3 times their continuous rating.



### 7"Clip Centers Clip-in Mounting Indoor or Enclosure

| Catalog Number | Max.kV | Amp Rating | No. of Barrels | Indicating | Size/Diam/Length | I/C Sym. | TCC min/max GES | Fuse Support, Indoor | Fuse Support, Outdoor | Disconnecting Switch, Indoor | Disconnecting Switch, Outdoor |
|----------------|--------|------------|----------------|------------|------------------|----------|-----------------|----------------------|-----------------------|------------------------------|-------------------------------|
| 9F60CCB001     | 2.75   | 1E         | 1              | YES        | C/2"/9.18"       | 38kA     | 8106/8107       | 9F61AAB201           | -                     | 9F61AAB205                   | -                             |
| 9F60CCB002     | 2.75   | 2E         | 1              | YES        | C/2"/9.18"       | 38kA     | 8106/8107       | 9F61AAB201           | -                     | 9F61AAB205                   | -                             |
| 9F60CCB003     | 2.75   | 3E         | 1              | YES        | C/2"/9.18"       | 38kA     | 8106/8107       | 9F61AAB201           | -                     | 9F61AAB205                   | -                             |
| 9F60CCB005     | 2.75   | 5E         | 1              | YES        | C/2"/9.18"       | 38kA     | 8106/8107       | 9F61AAB201           | -                     | 9F61AAB205                   | -                             |
| 9F60CCB007     | 2.75   | 7E         | 1              | YES        | C/2"/9.18"       | 38kA     | 8106/8107       | 9F61AAB201           | -                     | 9F61AAB205                   | -                             |
| 9F60CCB010     | 2.75   | 10E        | 1              | YES        | C/2"/9.18"       | 38kA     | 8106/8107       | 9F61AAB201           | -                     | 9F61AAB205                   | -                             |
| 9F60CCB015     | 2.75   | 15E        | 1              | YES        | C/2"/9.18"       | 38kA     | 8106/8107       | 9F61AAB201           | -                     | 9F61AAB205                   | -                             |
| 9F60CCB020     | 2.75   | 20E        | 1              | YES        | C/2"/9.18"       | 38kA     | 8106/8107       | 9F61AAB201           | -                     | 9F61AAB205                   | -                             |
| 9F60CCB025     | 2.75   | 25E        | 1              | YES        | C/2"/9.18"       | 38kA     | 8106/8107       | 9F61AAB201           | -                     | 9F61AAB205                   | -                             |
| 9F60ECB030     | 2.75   | 30E        | 1              | YES        | D/3"/10.88"      | 38kA     | 8106/8107       | 9F61AAB301           | -                     | 9F61AAB305                   | -                             |
| 9F60ECB040     | 2.75   | 40E        | 1              | YES        | D/3"/10.88"      | 38kA     | 8106/8107       | 9F61AAB301           | -                     | 9F61AAB305                   | -                             |
| 9F60ECB050     | 2.75   | 50E        | 1              | YES        | D/3"/10.88"      | 38kA     | 8106/8107       | 9F61AAB301           | -                     | 9F61AAB305                   | -                             |
| 9F60ECB065     | 2.75   | 65E        | 1              | YES        | D/3"/10.88"      | 38kA     | 8106/8107       | 9F61AAB301           | -                     | 9F61AAB305                   | -                             |
| 9F60ECB080     | 2.75   | 80E        | 1              | YES        | D/3"/10.88"      | 38kA     | 8106/8107       | 9F61AAB301           | -                     | 9F61AAB305                   | -                             |
| 9F60ECB100     | 2.75   | 100E       | 1              | YES        | D/3"/10.88"      | 38kA     | 8106/8107       | 9F61AAB301           | -                     | 9F61AAB305                   | -                             |
| 9F60GCB125     | 2.75   | 125E       | 1              | YES        | DD/(2) 3"/10.88" | 38kA     | 8106/8107       | 9F61AAB401           | -                     | 9F61AAB405                   | -                             |
| 9F60GCB150     | 2.75   | 150E       | 1              | YES        | DD/(2) 3"/10.88" | 38kA     | 8106/8107       | 9F61AAB401           | -                     | 9F61AAB405                   | -                             |
| 9F60GCB200     | 2.75   | 200E       | 1              | YES        | DD/(2) 3"/10.88" | 38kA     | 8106/8107       | 9F61AAB401           | -                     | 9F61AAB405                   | -                             |

### 9" Clip Centers Clip-in Mounting Indoor or Enclosure

| Catalog Number | Max.kV | Amp Rating | No. of Barrels | Indicating | Size/Diam/Length | I/C Sym. | TCC min/max GES | Fuse Support, Indoor | Fuse Support, Outdoor | Disconnecting Switch, Indoor | Disconnecting Switch, Outdoor |
|----------------|--------|------------|----------------|------------|------------------|----------|-----------------|----------------------|-----------------------|------------------------------|-------------------------------|
| 9F60CEB001     | 2.75   | 1E         | 1              | YES        | C/2"/11.18"      | 38kA     | 8106/8107       | 9F61ACB201           | -                     | 9F61ACB205                   | -                             |
| 9F60CEB002     | 2.75   | 2E         | 1              | YES        | C/2"/11.18"      | 38kA     | 8106/8107       | 9F61ACB201           | -                     | 9F61ACB205                   | -                             |
| 9F60CEB003     | 2.75   | 3E         | 1              | YES        | C/2"/11.18"      | 38kA     | 8106/8107       | 9F61ACB201           | -                     | 9F61ACB205                   | -                             |
| 9F60CEB005     | 2.75   | 5E         | 1              | YES        | C/2"/11.18"      | 38kA     | 8106/8107       | 9F61ACB201           | -                     | 9F61ACB205                   | -                             |
| 9F60CEB007     | 2.75   | 7E         | 1              | YES        | C/2"/11.18"      | 38kA     | 8106/8107       | 9F61ACB201           | -                     | 9F61ACB205                   | -                             |
| 9F60CEB010     | 2.75   | 10E        | 1              | YES        | C/2"/11.18"      | 38kA     | 8106/8107       | 9F61ACB201           | -                     | 9F61ACB205                   | -                             |
| 9F60CEB015     | 2.75   | 15E        | 1              | YES        | C/2"/11.18"      | 38kA     | 8106/8107       | 9F61ACB201           | -                     | 9F61ACB205                   | -                             |
| 9F60CEB020     | 2.75   | 20E        | 1              | YES        | C/2"/11.18"      | 38kA     | 8106/8107       | 9F61ACB201           | -                     | 9F61ACB205                   | -                             |
| 9F60CEB025     | 2.75   | 25E        | 1              | YES        | C/2"/11.18"      | 38kA     | 8106/8107       | 9F61ACB201           | -                     | 9F61ACB205                   | -                             |
| 9F60CED905     | 5.5    | 0.5E       | 1              | YES        | C/2"/11.18"      | 63kA     | 8106/8107       | 9F61ACB201           | -                     | 9F61ACB205                   | -                             |
| 9F60CED001     | 5.5    | 1E         | 1              | YES        | C/2"/11.18"      | 63kA     | 8106/8107       | 9F61ACB201           | -                     | 9F61ACB205                   | -                             |
| 9F60CED002     | 5.5    | 2E         | 1              | YES        | C/2"/11.18"      | 63kA     | 8106/8107       | 9F61ACB201           | -                     | 9F61ACB205                   | -                             |
| 9F60CED003     | 5.5    | 3E         | 1              | YES        | C/2"/11.18"      | 63kA     | 8106/8107       | 9F61ACB201           | -                     | 9F61ACB205                   | -                             |
| 9F60CED005     | 5.5    | 5E         | 1              | YES        | C/2"/11.18"      | 63kA     | 8106/8107       | 9F61ACB201           | -                     | 9F61ACB205                   | -                             |
| 9F60CED007     | 5.5    | 7E         | 1              | YES        | C/2"/11.18"      | 63kA     | 8106/8107       | 9F61ACB201           | -                     | 9F61ACB205                   | -                             |
| 9F60CED010     | 5.5    | 10E        | 1              | YES        | C/2"/11.18"      | 63kA     | 8106/8107       | 9F61ACB201           | -                     | 9F61ACB205                   | -                             |
| 9F60CED015     | 5.5    | 15E        | 1              | YES        | C/2"/11.18"      | 63kA     | 8106/8107       | 9F61ACB201           | -                     | 9F61ACB205                   | -                             |
| 9F60CED020     | 5.5    | 20E        | 1              | YES        | C/2"/11.18"      | 63kA     | 8106/8107       | 9F61ACB201           | -                     | 9F61ACB205                   | -                             |
| 9F60CED025     | 5.5    | 25E        | 1              | YES        | C/2"/11.18"      | 63kA     | 8106/8107       | 9F61ACB201           | -                     | 9F61ACB205                   | -                             |

# Current-Limiting Power Fuses

## Power Distribution Fuses

9F60 Series, “E” Rated

EJ-1

Suitable for use indoors or in an enclosure only

### 12” Clip Centers Clip-in Mounting Indoor or Enclosure

| Catalog Number | Max.kV | Amp Rating | No. of Barrels | Indicating | Size/Diam/Length | I/C Sym. | TCC min/max GES | Fuse Support, Indoor | Fuse Support, Outdoor | Disconnecting Switch, Indoor | Disconnecting Switch, Outdoor |
|----------------|--------|------------|----------------|------------|------------------|----------|-----------------|----------------------|-----------------------|------------------------------|-------------------------------|
| 9F60CJH002     | 15.5   | 2E         | 1              | YES        | C/2”/14.18”      | 82kA     | 8104/8105       | 9F61AEG201           | -                     | 9F61AEG205                   | -                             |
| 9F60CJH003     | 15.5   | 3E         | 1              | YES        | C/2”/14.18”      | 82kA     | 8104/8105       | 9F61AEG201           | -                     | 9F61AEG205                   | -                             |
| 9F60CJH005     | 15.5   | 5E         | 1              | YES        | C/2”/14.18”      | 82kA     | 8104/8105       | 9F61AEG201           | -                     | 9F61AEG205                   | -                             |
| 9F60CJH007     | 15.5   | 7E         | 1              | YES        | C/2”/14.18”      | 82kA     | 8104/8105       | 9F61AEG201           | -                     | 9F61AEG205                   | -                             |
| 9F60CJH010     | 15.5   | 10E        | 1              | YES        | C/2”/14.18”      | 82kA     | 8104/8105       | 9F61AEG201           | -                     | 9F61AEG205                   | -                             |

### 14” Clip Centers Clip-in Mounting Indoor or Enclosure

| Catalog Number | Max.kV | Amp Rating | No. of Barrels | Indicating | Size/Diam/Length    | I/C Sym. | TCC min/max GES | Fuse Support, Indoor                                          | Fuse Support, Outdoor    | Disconnecting Switch, Indoor | Disconnecting Switch, Outdoor |
|----------------|--------|------------|----------------|------------|---------------------|----------|-----------------|---------------------------------------------------------------|--------------------------|------------------------------|-------------------------------|
| 9F60KLH125     | 15     | 125E       | 2              | YES        | EE/(2) 4.00”/19.12” | 38kA     | 8104/8105       | 9F61AFG501 (13.8 kV, 95 BIL),<br>9F61AFJ501 (14.4 kV 110 BIL) | N/A for Outdoor Mounting | N/A                          | N/A for Outdoor Mounting      |
| 9F60KLH150     | 15     | 150E       | 2              | YES        | EE/(2) 4.00”/19.12” | 31kA     | 8104/8105       | 9F61AFG501 (13.8 kV, 95 BIL),<br>9F61AFJ501 (14.4 kV 110 BIL) | N/A for Outdoor Mounting | N/A                          | N/A for Outdoor Mounting      |
| 9F60KLH175     | 15     | 175E       | 2              | YES        | EE/(2) 4.00”/19.12” | 31kA     | 8104/8105       | 9F61AFG501 (13.8 kV, 95 BIL),<br>9F61AFJ501 (14.4 kV 110 BIL) | N/A for Outdoor Mounting | N/A                          | N/A for Outdoor Mounting      |

### 15” Clip Centers Clip-in Mounting Indoor or Enclosure

| Catalog Number | Max.kV | Amp Rating | No. of Barrels | Indicating | Size/Diam/Length | I/C Sym. | TCC min/max GES | Fuse Support, Indoor | Fuse Support, Outdoor    | Disconnecting Switch, Indoor | Disconnecting Switch, Outdoor |
|----------------|--------|------------|----------------|------------|------------------|----------|-----------------|----------------------|--------------------------|------------------------------|-------------------------------|
| 9F60CMJ905     | 25.8   | 0.5E       | 1              | YES        | C/2”/17.20”      | 82kA     | 8114/8115       | Consult Factory      | N/A for Outdoor Mounting | Consult Factory              | N/A for Outdoor Mounting      |
| 9F60CMJ001     | 25.8   | 1E         | 1              | YES        | C/2”/17.20”      | 82kA     | 8114/8115       | Consult Factory      | N/A for Outdoor Mounting | Consult Factory              | N/A for Outdoor Mounting      |
| 9F60CMJ002     | 25.8   | 2E         | 1              | YES        | C/2”/17.20”      | 82kA     | 8114/8115       | Consult Factory      | N/A for Outdoor Mounting | Consult Factory              | N/A for Outdoor Mounting      |

# Current-Limiting Power Fuses

## Power Distribution Fuses

9F60 Series, “E” Rated

EJO-1

Suitable for use indoors and outdoors

### Product Description

Power distribution current-limiting fuses are designed not only to interrupt the high-fault currents but also to interrupt low-fault currents down to approximately 3 times their continuous rating. The EJO-1 models can be used outdoors without any protecting enclosure.



### 12” Clip Centers Clip-in Mounting Indoor or Enclosure

| Catalog Number | Max.kV | Amp Rating | No. of Barrels | Indicating | Size/Diam/Length | I/C Sym. | TCC min/max GES | Fuse Support, Indoor | Fuse Support, Outdoor | Disconnecting Switch, Indoor | Disconnecting Switch, Outdoor |
|----------------|--------|------------|----------------|------------|------------------|----------|-----------------|----------------------|-----------------------|------------------------------|-------------------------------|
| 9F60DJB001     | 2.75   | 1E         | 1              | YES        | C/2”/14.18”      | 50kA     | 8106/8107       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJB002     | 2.75   | 2E         | 1              | YES        | C/2”/14.18”      | 50kA     | 8106/8107       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJB003     | 2.75   | 3E         | 1              | YES        | C/2”/14.18”      | 50kA     | 8106/8107       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJB005     | 2.75   | 5E         | 1              | YES        | C/2”/14.18”      | 50kA     | 8106/8107       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJB007     | 2.75   | 7E         | 1              | YES        | C/2”/14.18”      | 50kA     | 8106/8107       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJB010     | 2.75   | 10E        | 1              | YES        | C/2”/14.18”      | 50kA     | 8106/8107       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJB015     | 2.75   | 15E        | 1              | YES        | C/2”/14.18”      | 50kA     | 8106/8107       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJB020     | 2.75   | 20E        | 1              | YES        | C/2”/14.18”      | 50kA     | 8106/8107       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJB025     | 2.75   | 25E        | 1              | YES        | C/2”/14.18”      | 50kA     | 8106/8107       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60FJB030     | 2.75   | 30E        | 1              | YES        | D/3”/15.88”      | 50kA     | 8106/8107       | 9F61AEB301           | 9F61CEF309            | 9F61AEB305                   | 9F61CEF310                    |
| 9F60FJB040     | 2.75   | 40E        | 1              | YES        | D/3”/15.88”      | 50kA     | 8106/8107       | 9F61AEB301           | 9F61CEF309            | 9F61AEB305                   | 9F61CEF310                    |
| 9F60FJB050     | 2.75   | 50E        | 1              | YES        | D/3”/15.88”      | 50kA     | 8106/8107       | 9F61AEB301           | 9F61CEF309            | 9F61AEB305                   | 9F61CEF310                    |
| 9F60FJB065     | 2.75   | 65E        | 1              | YES        | D/3”/15.88”      | 50kA     | 8106/8107       | 9F61AEB301           | 9F61CEF309            | 9F61AEB305                   | 9F61CEF310                    |
| 9F60FJB080     | 2.75   | 80E        | 1              | YES        | D/3”/15.88”      | 50kA     | 8106/8107       | 9F61AEB301           | 9F61CEF309            | 9F61AEB305                   | 9F61CEF310                    |
| 9F60FJB100     | 2.75   | 100E       | 1              | YES        | D/3”/15.88”      | 50kA     | 8106/8107       | 9F61AEB301           | 9F61CEF309            | 9F61AEB305                   | 9F61CEF310                    |
| 9F60HJB125     | 2.75   | 125E       | 2              | YES        | DD/(2) 3”/15.88” | 50kA     | 8106/8107       | 9F61AEB401           | 9F61CEF409            | 9F61AEB405                   | 9F61CEF410                    |
| 9F60HJB150     | 2.75   | 150E       | 2              | YES        | DD/(2) 3”/15.88” | 50kA     | 8106/8107       | 9F61AEB401           | 9F61CEF409            | 9F61AEB405                   | 9F61CEF410                    |
| 9F60HJB200     | 2.75   | 200E       | 2              | YES        | DD/(2) 3”/15.88” | 50kA     | 8106/8107       | 9F61AEB401           | 9F61CEF409            | 9F61AEB405                   | 9F61CEF410                    |
| 9F60DJD005     | 5.5    | 0.5E       | 1              | YES        | C/2”/14.18”      | 50kA     | 8106/8107       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJD001     | 5.5    | 1E         | 1              | YES        | C/2”/14.18”      | 50kA     | 8106/8107       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJD002     | 5.5    | 2E         | 1              | YES        | C/2”/14.18”      | 50kA     | 8106/8107       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJD003     | 5.5    | 3E         | 1              | YES        | C/2”/14.18”      | 50kA     | 8106/8107       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJD005     | 5.5    | 5E         | 1              | YES        | C/2”/14.18”      | 50kA     | 8106/8107       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJD007     | 5.5    | 7E         | 1              | YES        | C/2”/14.18”      | 50kA     | 8106/8107       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJD010     | 5.5    | 10E        | 1              | YES        | C/2”/14.18”      | 50kA     | 8106/8107       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJD015     | 5.5    | 15E        | 1              | YES        | C/2”/14.18”      | 50kA     | 8106/8107       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJD020     | 5.5    | 20E        | 1              | YES        | C/2”/14.18”      | 50kA     | 8106/8107       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJD025     | 5.5    | 25E        | 1              | YES        | C/2”/14.18”      | 50kA     | 8106/8107       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60FJD030     | 5.5    | 30E        | 1              | YES        | D/3”/15.88”      | 50kA     | 8106/8107       | 9F61AEB301           | 9F61CEF309            | 9F61AEB305                   | 9F61CEF310                    |
| 9F60FJD040     | 5.5    | 40E        | 1              | YES        | D/3”/15.88”      | 50kA     | 8106/8107       | 9F61AEB301           | 9F61CEF309            | 9F61AEB305                   | 9F61CEF310                    |
| 9F60FJD050     | 5.5    | 50E        | 1              | YES        | D/3”/15.88”      | 50kA     | 8106/8107       | 9F61AEB301           | 9F61CEF309            | 9F61AEB305                   | 9F61CEF310                    |
| 9F60FJD065     | 5.5    | 65E        | 1              | YES        | D/3”/15.88”      | 50kA     | 8106/8107       | 9F61AEB301           | 9F61CEF309            | 9F61AEB305                   | 9F61CEF310                    |
| 9F60FJD080     | 5.5    | 80E        | 1              | YES        | D/3”/15.88”      | 50kA     | 8106/8107       | 9F61AEB301           | 9F61CEF309            | 9F61AEB305                   | 9F61CEF310                    |
| 9F60FJD100     | 5.5    | 100E       | 1              | YES        | D/3”/15.88”      | 50kA     | 8106/8107       | 9F61AEB301           | 9F61CEF309            | 9F61AEB305                   | 9F61CEF310                    |
| 9F60HJD125     | 5.5    | 125E       | 2              | YES        | DD/(2) 3”/15.88” | 50kA     | 8106/8107       | 9F61AEB401           | 9F61CEF409            | 9F61AEB405                   | 9F61CEF410                    |
| 9F60HJD150     | 5.5    | 150E       | 2              | YES        | DD/(2) 3”/15.88” | 50kA     | 8106/8107       | 9F61AEB401           | 9F61CEF409            | 9F61AEB405                   | 9F61CEF410                    |
| 9F60HJD200     | 5.5    | 200E       | 2              | YES        | DD/(2) 3”/15.88” | 50kA     | 8106/8107       | 9F61AEB401           | 9F61CEF409            | 9F61AEB405                   | 9F61CEF410                    |
| 9F60DJE005     | 8.25   | 0.5E       | 1              | YES        | C/2”/14.18”      | 50kA     | 8112/8113       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJE001     | 8.25   | 1E         | 1              | YES        | C/2”/14.18”      | 50kA     | 8112/8113       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJE002     | 8.25   | 2E         | 1              | YES        | C/2”/14.18”      | 50kA     | 8112/8113       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJE003     | 8.25   | 3E         | 1              | YES        | C/2”/14.18”      | 50kA     | 8112/8113       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJE005     | 8.25   | 5E         | 1              | YES        | C/2”/14.18”      | 50kA     | 8112/8113       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJE007     | 8.25   | 7E         | 1              | YES        | C/2”/14.18”      | 50kA     | 8112/8113       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJE010     | 8.25   | 10E        | 1              | YES        | C/2”/14.18”      | 50kA     | 8112/8113       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60DJE015     | 8.25   | 15E        | 1              | YES        | C/2”/14.18”      | 50kA     | 8112/8113       | 9F61AEG201           | 9F61CEF209            | 9F61AEG205                   | 9F61CEF210                    |
| 9F60FJE020     | 8.25   | 20E        | 1              | YES        | D/3”/15.88”      | 50kA     | 8112/8113       | 9F61AEG301           | 9F61CEF309            | 9F61AEG305                   | 9F61CEF310                    |
| 9F60FJE025     | 8.25   | 25E        | 1              | YES        | D/3”/15.88”      | 50kA     | 8112/8113       | 9F61AEG301           | 9F61CEF309            | 9F61AEG305                   | 9F61CEF310                    |
| 9F60FJE030     | 8.25   | 30E        | 1              | YES        | D/3”/15.88”      | 50kA     | 8112/8113       | 9F61AEG301           | 9F61CEF309            | 9F61AEG305                   | 9F61CEF310                    |
| 9F60FJE040     | 8.25   | 40E        | 1              | YES        | D/3”/15.88”      | 50kA     | 8112/8113       | 9F61AEG301           | 9F61CEF309            | 9F61AEG305                   | 9F61CEF310                    |
| 9F60FJE050     | 8.25   | 50E        | 1              | YES        | D/3”/15.88”      | 50kA     | 8112/8113       | 9F61AEG301           | 9F61CEF309            | 9F61AEG305                   | 9F61CEF310                    |
| 9F60FJE065     | 8.25   | 65E        | 1              | YES        | D/3”/15.88”      | 50kA     | 8112/8113       | 9F61AEG301           | 9F61CEF309            | 9F61AEG305                   | 9F61CEF310                    |
| 9F60FJE080     | 8.25   | 80E        | 1              | YES        | D/3”/15.88”      | 50kA     | 8112/8113       | 9F61AEG301           | 9F61CEF309            | 9F61AEG305                   | 9F61CEF310                    |
| 9F60FJE100     | 8.25   | 100E       | 1              | YES        | D/3”/15.88”      | 50kA     | 8112/8113       | 9F61AEG301           | 9F61CEF309            | 9F61AEG305                   | 9F61CEF310                    |
| 9F60HJE125     | 8.25   | 125E       | 2              | YES        | DD/(2) 3”/15.88” | 50kA     | 8112/8113       | 9F61AEG401           | 9F61CEF409            | 9F61AEG405                   | 9F61CEF410                    |
| 9F60HJE150     | 8.25   | 150E       | 2              | YES        | DD/(2) 3”/15.88” | 50kA     | 8112/8113       | 9F61AEG401           | 9F61CEF409            | 9F61AEG405                   | 9F61CEF410                    |
| 9F60HJE200     | 8.25   | 200E       | 2              | YES        | DD/(2) 3”/15.88” | 50kA     | 8112/8113       | 9F61AEG401           | 9F61CEF409            | 9F61AEG405                   | 9F61CEF410                    |

# Current-Limiting Power Fuses

## Power Distribution Fuses

9F60 Series, "E" Rated

EJO-1

Suitable for use indoors and outdoors

### 15" Clip Centers Clip-in Mounting Indoor or Outdoor

| Catalog Number | Max. kV | Amp Rating | No. of Barrels | Indicating | Size/Diam/Length | I/C Sym. | TCC min/max GES | Fuse Support, Indoor                                                                        | Fuse Support, Outdoor | Disconnecting Switch, Indoor                                                                | Disconnecting Switch, Outdoor |
|----------------|---------|------------|----------------|------------|------------------|----------|-----------------|---------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------|-------------------------------|
| 9F60DMH005     | 15.5    | 0.5E       | 1              | YES        | C/2"/17.20"      | 120kA    | 8104/8105       | 9F61AGG201<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ201<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL209            | 9F61AGG205<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ205<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL210                    |
| 9F60DMH001     | 15.5    | 1E         | 1              | YES        | C/2"/17.20"      | 120kA    | 8104/8105       | 9F61AGG201<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ201<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL209            | 9F61AGG205<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ205<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL210                    |
| 9F60DMH002     | 15.5    | 2E         | 1              | YES        | C/2"/17.20"      | 120kA    | 8104/8105       | 9F61AGG201<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ201<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL209            | 9F61AGG205<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ205<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL210                    |
| 9F60DMH003     | 15.5    | 3E         | 1              | YES        | C/2"/17.20"      | 120kA    | 8104/8105       | 9F61AGG201<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ201<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL209            | 9F61AGG205<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ205<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL210                    |
| 9F60DMH005     | 15.5    | 5E         | 1              | YES        | C/2"/17.20"      | 82kA     | 8104/8105       | 9F61AGG201<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ201<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL209            | 9F61AGG205<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ205<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL210                    |
| 9F60DMH007     | 15.5    | 7E         | 1              | YES        | C/2"/17.20"      | 82kA     | 8104/8105       | 9F61AGG201<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ201<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL209            | 9F61AGG205<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ205<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL210                    |
| 9F60DMH010     | 15.5    | 10E        | 1              | YES        | C/2"/17.20"      | 82kA     | 8104/8105       | 9F61AGG201<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ201<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL209            | 9F61AGG205<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ205<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL210                    |
| 9F60FMH015     | 15.5    | 15E        | 1              | YES        | D/3"/18.88"      | 38kA     | 8104/8105       | 9F61AGG301<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ301<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL309            | 9F61AGG305<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ305<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL310                    |
| 9F60FMH020     | 15.5    | 20E        | 1              | YES        | D/3"/18.88"      | 38kA     | 8104/8105       | 9F61AGG301<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ301<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL309            | 9F61AGG305<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ305<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL310                    |
| 9F60FMH025     | 15.5    | 25E        | 1              | YES        | D/3"/18.88"      | 38kA     | 8104/8105       | 9F61AGG301<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ301<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL309            | 9F61AGG305<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ305<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL310                    |
| 9F60FMH030     | 15.5    | 30E        | 1              | YES        | D/3"/18.88"      | 38kA     | 8104/8105       | 9F61AGG301<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ301<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL309            | 9F61AGG305<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ305<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL310                    |

# Current-Limiting Power Fuses

## Power Distribution Fuses

9F60 Series, “E” Rated

EJO-1

Suitable for use indoors and outdoors

### 15” Clip Centers Clip-in Mounting Indoor or Outdoor (Continued)

| Catalog Number | Max. kV | Amp Rating | No. of Barrels | Indicating | Size/Diam/Length | I/C Sym. | TCC min/max GES | Fuse Support, Indoor                                                                        | Fuse Support, Outdoor | Disconnecting Switch, Indoor                                                                | Disconnecting Switch, Outdoor |
|----------------|---------|------------|----------------|------------|------------------|----------|-----------------|---------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------|-------------------------------|
| 9F60FMH040     | 15.5    | 40E        | 1              | YES        | D/3”/18.88”      | 38kA     | 8104/8105       | 9F61AGG301<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ301<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL309            | 9F61AGG305<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ305<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL310                    |
| 9F60FMH050     | 15.5    | 50E        | 1              | YES        | D/3”/18.88”      | 38kA     | 8104/8105       | 9F61AGG301<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ301<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL309            | 9F61AGG305<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ305<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL310                    |
| 9F60HMH065     | 15.5    | 65E        | 2              | YES        | DD/(2) 3”/18.88” | 38kA     | 8104/8105       | 9F61AGG401<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ401<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL409            | 9F61AGG405<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ405<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL410                    |
| 9F60HMH080     | 15.5    | 80E        | 2              | YES        | DD/(2) 3”/18.88” | 38kA     | 8104/8105       | 9F61AGG401<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ401<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL409            | 9F61AGG405<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ405<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL410                    |
| 9F60HMH100     | 15.5    | 100E       | 2              | YES        | DD/(2) 3”/18.88” | 38kA     | 8104/8105       | 9F61AGG401<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ401<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL409            | 9F61AGG405<br>(13.8 kV nominal<br>95 kV BIL),<br>9F61AGJ405<br>(14.4 kV nominal<br>110 BIL) | 9F61CGL410                    |

### 21” Clip Centers Clip-in Mounting Indoor or Outdoor

| Catalog Number | Max. kV | Amp Rating | No. of Barrels | Indicating | Size/Diam/Length | I/C Sym. | TCC min/max GES | Fuse Support, Indoor | Fuse Support, Outdoor | Disconnecting Switch, Indoor | Disconnecting Switch, Outdoor |
|----------------|---------|------------|----------------|------------|------------------|----------|-----------------|----------------------|-----------------------|------------------------------|-------------------------------|
| 9F60DNJ05      | 25.8    | 0.5E       | 1              | YES        | C/2”/23.18”      | 45kA     | 8114/8115       | 9F61AHM201           | 9F61CHM209            | 9F61AHM205                   | 9F61CHM210                    |
| 9F60DNJ001     | 25.8    | 1E         | 1              | YES        | C/2”/23.18”      | 45kA     | 8114/8115       | 9F61AHM201           | 9F61CHM209            | 9F61AHM205                   | 9F61CHM210                    |
| 9F60DNJ002     | 25.8    | 2E         | 1              | YES        | C/2”/23.18”      | 45kA     | 8114/8115       | 9F61AHM201           | 9F61CHM209            | 9F61AHM205                   | 9F61CHM210                    |
| 9F60DNJ003     | 25.8    | 3E         | 1              | YES        | C/2”/23.18”      | 45kA     | 8114/8115       | 9F61AHM201           | 9F61CHM209            | 9F61AHM205                   | 9F61CHM210                    |
| 9F60DNJ005     | 25.8    | 5E         | 1              | YES        | C/2”/23.18”      | 45kA     | 8114/8115       | 9F61AHM201           | 9F61CHM209            | 9F61AHM205                   | 9F61CHM210                    |
| 9F60DNJ007     | 25.8    | 7E         | 1              | YES        | C/2”/23.18”      | 45kA     | 8114/8115       | 9F61AHM201           | 9F61CHM209            | 9F61AHM205                   | 9F61CHM210                    |
| 9F60DNJ010     | 25.8    | 10E        | 1              | YES        | C/2”/23.18”      | 45kA     | 8114/8115       | 9F61AHM201           | 9F61CHM209            | 9F61AHM205                   | 9F61CHM210                    |
| 9F60FNJ015     | 25.8    | 15E        | 1              | YES        | D/3”/24.81”      | 25kA     | 8114/8115       | 9F61AHM301           | 9F61CHM309            | 9F61AHM305                   | 9F61CHM310                    |
| 9F60FNJ020     | 25.8    | 20E        | 1              | YES        | D/3”/24.81”      | 25kA     | 8114/8115       | 9F61AHM301           | 9F61CHM309            | 9F61AHM305                   | 9F61CHM310                    |
| 9F60FNJ025     | 25.8    | 25E        | 1              | YES        | D/3”/24.81”      | 25kA     | 8114/8115       | 9F61AHM301           | 9F61CHM309            | 9F61AHM305                   | 9F61CHM310                    |
| 9F60FNJ030     | 25.8    | 30E        | 1              | YES        | D/3”/24.81”      | 25kA     | 8114/8115       | 9F61AHM301           | 9F61CHM309            | 9F61AHM305                   | 9F61CHM310                    |
| 9F60FNJ040     | 25.8    | 40E        | 1              | YES        | D/3”/24.81”      | 25kA     | 8114/8115       | 9F61AHM301           | 9F61CHM309            | 9F61AHM305                   | 9F61CHM310                    |
| 9F60FNJ050     | 25.8    | 50E        | 1              | YES        | D/3”/24.81”      | 25kA     | 8114/8115       | 9F61AHM301           | 9F61CHM309            | 9F61AHM305                   | 9F61CHM310                    |
| 9F60HNJ065     | 25.8    | 65E        | 2              | YES        | DD/(2) 3”/24.88” | 25kA     | 8114/8115       | 9F61AHM401           | 9F61CHM409            | 9F61AHM405                   | 9F61CHM410                    |
| 9F60HNJ080     | 25.8    | 80E        | 2              | YES        | DD/(2) 3”/24.88” | 25kA     | 8114/8115       | 9F61AHM401           | 9F61CHM409            | 9F61AHM405                   | 9F61CHM410                    |
| 9F60HNJ100     | 25.8    | 100E       | 2              | YES        | DD/(2) 3”/24.88” | 25kA     | 8114/8115       | 9F61AHM401           | 9F61CHM409            | 9F61AHM405                   | 9F61CHM410                    |

# Current-Limiting Power Fuses

## Power Distribution Fuses

9F60 Series, "E" Rated

EJO-1

Suitable for use indoors and outdoors

### 27" Clip Centers Clip-in Mounting Indoor or Outdoor

| Catalog Number | Max. kV | Amp Rating | No. of Barrels | Indicating | Size/Diam/Length | I/C Sym. | TCC min/max GES | Fuse Support, Indoor | Fuse Support, Outdoor | Disconnecting Switch, Indoor | Disconnecting Switch, Outdoor |
|----------------|---------|------------|----------------|------------|------------------|----------|-----------------|----------------------|-----------------------|------------------------------|-------------------------------|
| 9F60FPK001     | 38      | 1E         | 1              | YES        | D/3"/30.81"      | 45kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPK002     | 38      | 2E         | 1              | YES        | D/3"/30.81"      | 45kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPK003     | 38      | 3E         | 1              | YES        | D/3"/30.81"      | 45kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPK005     | 38      | 5E         | 1              | YES        | D/3"/30.81"      | 45kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPK007     | 38      | 7E         | 1              | YES        | D/3"/30.81"      | 45kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPK010     | 38      | 10E        | 1              | YES        | D/3"/30.81"      | 45kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPK015     | 38      | 15E        | 1              | YES        | D/3"/30.81"      | 13kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPK020     | 38      | 20E        | 1              | YES        | D/3"/30.81"      | 13kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPK025     | 38      | 25E        | 1              | YES        | D/3"/30.81"      | 13kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPK030     | 38      | 30E        | 1              | YES        | D/3"/30.81"      | 13kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPK040     | 38      | 40E        | 1              | YES        | D/3"/30.81"      | 13kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60HPK050     | 38      | 50E        | 2              | YES        | DD/2) 3"/30.88"  | 13kA     | 8116/8117       | –                    | 9F61CJN409            | –                            | 9F61CJN410                    |
| 9F60HPK065     | 38      | 65E        | 2              | YES        | DD/2) 3"/30.88"  | 13kA     | 8116/8117       | –                    | 9F61CJN409            | –                            | 9F61CJN410                    |
| 9F60HPK080     | 38      | 80E        | 2              | YES        | DD/2) 3"/30.88"  | 13kA     | 8116/8117       | –                    | 9F61CJN409            | –                            | 9F61CJN410                    |
| 9F60FPT001     | 38      | 1E         | 1              | NO         | D/3"/30.81"      | 45kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPT002     | 38      | 2E         | 1              | NO         | D/3"/30.81"      | 45kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPT003     | 38      | 3E         | 1              | NO         | D/3"/30.81"      | 45kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPT005     | 38      | 5E         | 1              | NO         | D/3"/30.81"      | 45kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPT007     | 38      | 7E         | 1              | NO         | D/3"/30.81"      | 45kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPT010     | 38      | 10E        | 1              | NO         | D/3"/30.81"      | 45kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPT015     | 38      | 15E        | 1              | NO         | D/3"/30.81"      | 13kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPT020     | 38      | 20E        | 1              | NO         | D/3"/30.81"      | 13kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPT025     | 38      | 25E        | 1              | NO         | D/3"/30.81"      | 13kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPT030     | 38      | 30E        | 1              | NO         | D/3"/30.81"      | 13kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60FPT040     | 38      | 40E        | 1              | NO         | D/3"/30.81"      | 13kA     | 8116/8117       | –                    | 9F61CJN309            | –                            | 9F61CJN310                    |
| 9F60HPT050     | 38      | 50E        | 2              | NO         | DD/2) 3"/30.81"  | 13kA     | 8116/8117       | –                    | 9F61CJN409            | –                            | 9F61CJN410                    |
| 9F60HPT065     | 38      | 65E        | 2              | NO         | DD/2) 3"/30.81"  | 13kA     | 8116/8117       | –                    | 9F61CJN409            | –                            | 9F61CJN410                    |
| 9F60HPT080     | 38      | 80E        | 2              | NO         | DD/2) 3"/30.81"  | 13kA     | 8116/8117       | –                    | 9F61CJN409            | –                            | 9F61CJN410                    |

# Current-Limiting Power Fuses

## Potential Transformer

9F60 Series, “E” Rated

EJ-1

Suitable for use indoors or in an enclosure



### Product Description

Current-limiting fuses are designed to interrupt the high-fault currents and also the low-fault currents down to approximately 3 times their continuous current rating. Available from 0.625 to 15kV, from 0.5 to 3 Amps.

### 4.25” Clip Centers Clip-in Mounting Indoor or Enclosure

| Catalog Number | Max. kV | Amp Rating | No. of Barrels | Indicating | Size <sup>1</sup> /Diam Length | I/C Sym. | TCC min/max GES | Fuse Support, Indoor | Fuse Support, Outdoor | Disconnecting Switch, Indoor | Disconnecting Switch, Outdoor |
|----------------|---------|------------|----------------|------------|--------------------------------|----------|-----------------|----------------------|-----------------------|------------------------------|-------------------------------|
| 9F60AAA003     | 0.625   | 3E         | 1              | YES        | A/0.812”/4.625”                | 100kA    | 8108/8109       | –                    | –                     | –                            | –                             |
| 9F60AAA005     | 0.625   | 5E         | 1              | YES        | A/0.812”/4.625”                | 100kA    | 8108/8109       | –                    | –                     | –                            | –                             |
| 9F60AAB001     | 2.75    | 1E         | 1              | YES        | A/0.812”/4.625”                | 60kA     | 8108/8109       | –                    | –                     | –                            | –                             |
| 9F60AAB002     | 2.75    | 2E         | 1              | YES        | A/0.812”/4.625”                | 60kA     | 8108/8109       | –                    | –                     | –                            | –                             |

<sup>1</sup>Size A fuses are normally mounted directly on potential transformers. No supports, disconnect switches, or live parts are available for separate mounting.

### 6” Clip Centers Clip-in Mounting Indoor or Enclosure

| Catalog Number | Max. kV | Amp Rating | No. of Barrels | Indicating | Spare Parts (Live Parts) | Spare Parts (Clips) | Size/Diam/Length | I/C Sym. | TCC min/max GES |
|----------------|---------|------------|----------------|------------|--------------------------|---------------------|------------------|----------|-----------------|
| 9F60BBB001     | 2.75    | 1E         | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625”/7.375”  | 60kA     | 8110/8111       |
| 9F60BBB002     | 2.75    | 2E         | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625”/7.375”  | 60kA     | 8110/8111       |
| 9F60BBB003     | 2.75    | 3E         | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625”/7.375”  | 60kA     | 8110/8111       |
| 9F60BBD905     | 5.5     | 0.5E       | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625”/7.375”  | 80kA     | 8110/8111       |
| 9F60BBD001     | 5.5     | 1E         | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625”/7.375”  | 80kA     | 8110/8111       |
| 9F60BBD002     | 5.5     | 2E         | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625”/7.375”  | 80kA     | 8110/8111       |
| 9F60BBD003     | 5.5     | 3E         | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625”/7.375”  | 80kA     | 8110/8111       |
| 9F60BBN905     | 5.5     | 0.5E       | 1              | NO         | 9F61BNW450               | 9F61BWW460          | B/1.625”/7.375”  | 80kA     | 8110/8111       |
| 9F60BBN001     | 5.5     | 1E         | 1              | NO         | 9F61BNW450               | 9F61BWW460          | B/1.625”/7.375”  | 80kA     | 8110/8111       |
| 9F60BBN002     | 5.5     | 2E         | 1              | NO         | 9F61BNW450               | 9F61BWW460          | B/1.625”/7.375”  | 80kA     | 8110/8111       |
| 9F60BBN003     | 5.5     | 3E         | 1              | NO         | 9F61BNW450               | 9F61BWW460          | B/1.625”/7.375”  | 80kA     | 8110/8111       |

### 8.12” Clip Centers Clip-in Mounting Indoor or Enclosure

| Catalog Number | Max. kV | Amp Rating | No. of Barrels | Indicating | Spare Parts (Live Parts) | Spare Parts (Clips) | Size/Diam/Length | I/C Sym. | TCC min/max GES | Fuse Support, Indoor |
|----------------|---------|------------|----------------|------------|--------------------------|---------------------|------------------|----------|-----------------|----------------------|
| 9F60BDB001     | 2.75    | 1E         | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625”/9.50”   | 60kA     | 8110/8111       | 9F61ABB101           |
| 9F60BDB002     | 2.75    | 2E         | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625”/9.50”   | 60kA     | 8110/8111       | 9F61ABB101           |
| 9F60BDB003     | 2.75    | 3E         | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625”/9.50”   | 60kA     | 8110/8111       | 9F61ABB101           |
| 9F60BDD905     | 5.5     | 0.5E       | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625”/9.50”   | 80kA     | 8110/8111       | 9F61ABB101           |
| 9F60BDD001     | 5.5     | 1E         | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625”/9.50”   | 80kA     | 8110/8111       | 9F61ABB101           |
| 9F60BDD002     | 5.5     | 2E         | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625”/9.50”   | 80kA     | 8110/8111       | 9F61ABB101           |
| 9F60BDD003     | 5.5     | 3E         | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625”/9.50”   | 80kA     | 8110/8111       | 9F61ABB101           |
| 9F60BDE905     | 8.25    | 0.5E       | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625”/9.50”   | 80kA     | 8110/8111       | 9F61ABG101           |
| 9F60BDE001     | 8.25    | 1E         | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625”/9.50”   | 80kA     | 8110/8111       | 9F61ABG101           |
| 9F60BDE002     | 8.25    | 2E         | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625”/9.50”   | 80kA     | 8110/8111       | 9F61ABG101           |
| 9F60BDE003     | 8.25    | 3E         | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625”/9.50”   | 80kA     | 8110/8111       | 9F61ABG101           |

## Current-Limiting Power Fuses

### Potential Transformer

9F60 Series, "E" Rated

EJ-1

Suitable for use indoors or in an enclosure

#### 11.5" Clip Centers Clip-in Mounting Indoor or Enclosure

| Catalog Number | Max. kV | Amp Rating | No. of Barrels | Indicating | Spare Parts (Live Parts) | Spare Parts (Clips) | Size/Diam/Length | I/C Sym. | TCC min/max GES | Fuse support, Indoor                                                   |
|----------------|---------|------------|----------------|------------|--------------------------|---------------------|------------------|----------|-----------------|------------------------------------------------------------------------|
| 9F60BHH905     | 15.5    | 0.5E       | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625"/12.875" | 120kA    | 8110/8111       | 9F61ADG101<br>(13.8kV, 95kV BIL),<br>9F61ADJ101<br>(14.4kV, 110kV BIL) |
| 9F60BHH001     | 15.5    | 1E         | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625"/12.875" | 120kA    | 8110/8111       | 9F61ADG101<br>(13.8kV, 95kV BIL),<br>9F61ADJ101<br>(14.4kV, 110kV BIL) |
| 9F60BHH002     | 15.5    | 2E         | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625"/12.875" | 120kA    | 8110/8111       | 9F61ADG101<br>(13.8kV, 95kV BIL),<br>9F61ADJ101<br>(14.4kV, 110kV BIL) |
| 9F60BHH003     | 15.5    | 3E         | 1              | YES        | 9F61BNW450               | 9F61BWW460          | B/1.625"/12.875" | 120kA    | 8110/8111       | 9F61ADG101<br>(13.8kV, 95kV BIL),<br>9F61ADJ101<br>(14.4kV, 110kV BIL) |

# Current-Limiting Power Fuses

## Motor Starter Fuses

9F60 Series, “R” Rated

EJ-2<sup>1</sup>

Suitable for use indoors or in an enclosure

### Product Description

Backup motor starter current-limiting power fuses are designed to provide short-circuit protection of individual motors. These fuses are designed to interrupt current from 100 times the R-rating up to 50kA rms symmetrical at rated voltage. The element of these fuses is designed to withstand the cyclic motor-starting application. By definition, a back-up current-limiting fuse is “A fuse capable of interrupting all currents from the rated maximum interrupting current down to the rated minimum interrupting current.” Standard IEEE C.37.40-1993 (3.1.8). Available from 2.54 to 7.20kV, From 70 to 700A (2 to 50R).



### 7” Clip Centers Clip-in Mounting UL Recognized Indoor or Enclosure

| Catalog Number | Max. kV | Amp Rating | No. of Barrels | Indicating | Spare Parts (Live Parts) | Spare Parts (Clips) | Max. Continuous Curr. (Amps) | Size/Diam/Length    | I/C Sym. | TCC min/max GES |
|----------------|---------|------------|----------------|------------|--------------------------|---------------------|------------------------------|---------------------|----------|-----------------|
| 9F60LCB502     | 2.54    | 2R         | 1              | YES        | 9F61BNW750               | 9F61BWW459          | 70                           | D/3.00”/10.88”      | 50kA     | 8132/8133       |
| 9F60LCB503     | 2.54    | 3R         | 1              | YES        | 9F61BNW750               | 9F61BWW459          | 100                          | D/3.00”/10.88”      | 50kA     | 8132/8133       |
| 9F60LCB504     | 2.54    | 4R         | 1              | YES        | 9F61BNW750               | 9F61BWW459          | 130                          | D/3.00”/10.88”      | 50kA     | 8132/8133       |
| 9F60LCB506     | 2.54    | 6R         | 1              | YES        | 9F61BNW750               | 9F61BWW459          | 170                          | D/3.00”/10.88”      | 50kA     | 8132/8133       |
| 9F60LCB509     | 2.54    | 9R         | 1              | YES        | 9F61BNW750               | 9F61BWW459          | 200                          | D/3.00”/10.88”      | 50kA     | 8132/8133       |
| 9F60LCB512     | 2.54    | 12R        | 1              | YES        | 9F61BNW750               | 9F61BWW459          | 230                          | D/3.00”/10.88”      | 50kA     | 8132/8133       |
| 9F60MCB518     | 2.54    | 18R        | 2              | YES        | 9F61BNW751               | –                   | 390                          | DD/(2) 3.00”/10.88” | 50kA     | 8132/8133       |
| 9F60MCB524     | 2.54    | 24R        | 2              | YES        | 9F61BNW751               | –                   | 450                          | DD/(2) 3.00”/10.88” | 50kA     | 8132/8133       |
| 9F60LCL302     | 2.54    | 2R         | 1              | NO         | 9F61BNW750               | 9F61BWW459          | 70                           | D/3.00”/10.88”      | 50kA     | 8132/8133       |
| 9F60LCL303     | 2.54    | 3R         | 1              | NO         | 9F61BNW750               | 9F61BWW459          | 100                          | D/3.00”/10.88”      | 50kA     | 8132/8133       |
| 9F60LCL304     | 2.54    | 4R         | 1              | NO         | 9F61BNW750               | 9F61BWW459          | 130                          | D/3.00”/10.88”      | 50kA     | 8132/8133       |
| 9F60LCL306     | 2.54    | 6R         | 1              | NO         | 9F61BNW750               | 9F61BWW459          | 170                          | D/3.00”/10.88”      | 50kA     | 8132/8133       |
| 9F60LCL309     | 2.54    | 9R         | 1              | NO         | 9F61BNW750               | 9F61BWW459          | 200                          | D/3.00”/10.88”      | 50kA     | 8132/8133       |
| 9F60LCL312     | 2.54    | 12R        | 1              | NO         | 9F61BNW750               | 9F61BWW459          | 230                          | D/3.00”/10.88”      | 50kA     | 8132/8133       |
| 9F60MCL318     | 2.54    | 18R        | 2              | NO         | 9F61BNW751               | –                   | 390                          | DD/(2) 3.00”/10.88” | 50kA     | 8132/8133       |
| 9F60MCL324     | 2.54    | 24R        | 2              | NO         | 9F61BNW751               | –                   | 450                          | DD/(2) 3.00”/10.88” | 50kA     | 8132/8133       |

### Bolted End Fittings Indoor or Enclosure

| Catalog Number | Max. kV | Amp Rating | No. of Barrels | Indicating | Max. Continuous Curr. (Amps) | Size/Diam/Length    | I/C Sym. | TCC min/max GES | Fuse Support, Indoor |
|----------------|---------|------------|----------------|------------|------------------------------|---------------------|----------|-----------------|----------------------|
| 9F60TQB600     | 2.54    | 42R        | 2              | NO         | 600                          | KK (2) 3.45”/13.76” | 50kA     | 8122/8123       | –                    |
| 9F60TQB700     | 2.54    | 50R        | 2              | NO         | 700                          | KK (2) 3.45”/13.76” | 50kA     | 8122/8123       | –                    |

### 12” Clip Centers Clip-in Mounting UL Recognized Indoor or Enclosure

| Catalog Number | Max. kV | Amp Rating | No. of Barrels | Indicating | Spare Parts (Live Parts) | Spare Parts (Clips) | Max. Continuous Curr. (Amps) | Size/Diam/Length    | I/C Sym. | TCC min/max GES |
|----------------|---------|------------|----------------|------------|--------------------------|---------------------|------------------------------|---------------------|----------|-----------------|
| 9F60LJD502     | 5.08    | 2R         | 1              | YES        | 9F61BNW750               | 9F61BWW459          | 70                           | D/3.00”/15.97”      | 50kA     | 8132/8133       |
| 9F60LJD503     | 5.08    | 3R         | 1              | YES        | 9F61BNW750               | 9F61BWW459          | 100                          | D/3.00”/15.97”      | 50kA     | 8132/8133       |
| 9F60LJD504     | 5.08    | 4R         | 1              | YES        | 9F61BNW750               | 9F61BWW459          | 130                          | D/3.00”/15.97”      | 50kA     | 8132/8133       |
| 9F60LJD506     | 5.08    | 6R         | 1              | YES        | 9F61BNW750               | 9F61BWW459          | 170                          | D/3.00”/15.97”      | 50kA     | 8132/8133       |
| 9F60LJD509     | 5.08    | 9R         | 1              | YES        | 9F61BNW750               | 9F61BWW459          | 200                          | D/3.00”/15.97”      | 50kA     | 8132/8133       |
| 9F60LJD512     | 5.08    | 12R        | 1              | YES        | 9F61BNW750               | 9F61BWW459          | 230                          | D/3.00”/15.97”      | 50kA     | 8132/8133       |
| 9F60MJD518     | 5.08    | 18R        | 2              | YES        | 9F61BNW751               | –                   | 390                          | DD/(2) 3.00”/15.97” | 50kA     | 8132/8133       |
| 9F60MJD524     | 5.08    | 24R        | 2              | YES        | 9F61BNW751               | –                   | 450                          | DD/(2) 3.00”/15.97” | 50kA     | 8132/8133       |
| 9F60LJN302     | 5.08    | 2R         | 1              | NO         | 9F61BNW750               | 9F61BWW459          | 70                           | D/3.00”/15.97”      | 50kA     | 8132/8133       |
| 9F60LJN303     | 5.08    | 3R         | 1              | NO         | 9F61BNW750               | 9F61BWW459          | 100                          | D/3.00”/15.97”      | 50kA     | 8132/8133       |
| 9F60LJN304     | 5.08    | 4R         | 1              | NO         | 9F61BNW750               | 9F61BWW459          | 130                          | D/3.00”/15.97”      | 50kA     | 8132/8133       |
| 9F60LJN306     | 5.08    | 6R         | 1              | NO         | 9F61BNW750               | 9F61BWW459          | 170                          | D/3.00”/15.97”      | 50kA     | 8132/8133       |
| 9F60LJN309     | 5.08    | 9R         | 1              | NO         | 9F61BNW750               | 9F61BWW459          | 200                          | D/3.00”/15.97”      | 50kA     | 8132/8133       |
| 9F60LJN312     | 5.08    | 12R        | 1              | NO         | 9F61BNW750               | 9F61BWW459          | 230                          | D/3.00”/15.97”      | 50kA     | 8132/8133       |
| 9F60MJN318     | 5.08    | 18R        | 2              | NO         | 9F61BNW751               | –                   | 390                          | DD/(2) 3.00”/15.97” | 50kA     | 8132/8133       |
| 9F60MJN324     | 5.08    | 24R        | 2              | NO         | 9F61BNW751               | –                   | 450                          | DD/(2) 3.00”/15.97” | 50kA     | 8132/8133       |

<sup>1</sup>EJ-2 Motor starter fuses are typically mounted on medium voltage starters. No supports or disconnect switches available.

# Current-Limiting Power Fuses

## Motor Starter Fuses

9F60 Series, “R” Rated

EJ-2<sup>1</sup>

Suitable for use indoors or in an enclosure

### 14” Clip Centers Clip-in Mounting Indoor or Enclosure

| Catalog Number | Max. kV | Amp Rating | No. of Barrels | Indicating | Spare Parts (Live Parts) | Spare Parts (Clips) | Max. Continuous Curr. (Amps) | Size/Diam/Length | I/C Sym. | TCC min/max GES | Fuse Support, Indoor |
|----------------|---------|------------|----------------|------------|--------------------------|---------------------|------------------------------|------------------|----------|-----------------|----------------------|
| 9F60NLD830     | 5.08    | 30R        | 2              | YES        | 9F61BNW452               | –                   | 550                          | EE/(2) 4”/19.12” | 50kA     | 8132/8133       | 9F61AFB501           |
| 9F60NLD836     | 5.08    | 36R        | 2              | YES        | 9F61BNW452               | –                   | 650                          | EE/(2) 4”/19.12” | 50kA     | 8132/8133       | 9F61AFB501           |

### Bolted End Fittings Indoor or Enclosure

| Catalog Number | Max.kV | Amp Rating | No. of Barrels | Indicating | Max. Continuous Curr. (Amps) | Size/Diam/Length    | I/C Sym. | TCC min/max GES | Fuse Support Indoor |
|----------------|--------|------------|----------------|------------|------------------------------|---------------------|----------|-----------------|---------------------|
| 9F60TRD600     | 5      | 42R        | 2              | YES        | 600                          | KK (2) 3.45”/18.76” | 50kA     | 8122/8123       | –                   |
| 9F60TRD700     | 5      | 50R        | 2              | YES        | 700                          | KK (2) 3.45”/18.76” | 50kA     | 8122/8123       | –                   |

Bolted End Fuses, request outline drawing from factory.

### 12” Clip Centers Clip-in Mounting “A” Rated Indoor or Enclosure

| Catalog Number | Max. kV | Amp Rating | No. of Barrels | Indicating | Spare Parts (Live Parts) | Spare Parts (Clips) | Max. Continuous Curr. (Amps) | Size/Diam/Length    | I/C Sym. | TCC min/max GES |
|----------------|---------|------------|----------------|------------|--------------------------|---------------------|------------------------------|---------------------|----------|-----------------|
| 9F60LJE502     | 7.2     | 2A         | 1              | YES        | –                        | –                   | 70                           | D/3.00”/15.97”      | 50kA     | 8150/8151       |
| 9F60LJE503     | 7.2     | 3A         | 1              | YES        | –                        | –                   | 100                          | D/3.00”/15.97”      | 50kA     | 8150/8151       |
| 9F60LJE504     | 7.2     | 4A         | 1              | YES        | –                        | –                   | 130                          | D/3.00”/15.97”      | 50kA     | 8150/8151       |
| 9F60LJE506     | 7.2     | 6A         | 1              | YES        | –                        | –                   | 170                          | D/3.00”/15.97”      | 50kA     | 8150/8151       |
| 9F60LJE509     | 7.2     | 9A         | 1              | YES        | –                        | –                   | 200                          | D/3.00”/15.97”      | 50kA     | 8150/8151       |
| 9F60LJE512     | 7.2     | 12A        | 1              | YES        | –                        | –                   | 230                          | D/3.00”/15.97”      | 50kA     | 8150/8151       |
| 9F60MJE518     | 7.2     | 18A        | 2              | YES        | –                        | –                   | 390                          | DD/(2) 3.00”/15.97” | 50kA     | 8150/8151       |
| 9F60MJE524     | 7.2     | 24A        | 2              | YES        | –                        | –                   | 450                          | DD/(2) 3.00”/15.97” | 50kA     | 8150/8151       |

Table R, Max. Continuous Current for “R/A” Fuses

| Fuse “R/A” Designation | Max. Con. Current (Amps) |
|------------------------|--------------------------|
| 2                      | 70                       |
| 3                      | 100                      |
| 4                      | 130                      |
| 6                      | 170                      |
| 9                      | 200                      |
| 12                     | 230                      |
| 18                     | 390                      |
| 24                     | 450                      |
| 30                     | 550                      |
| 36                     | 650                      |
| 42                     | 600                      |
| 50                     | 700                      |

# Current-Limiting Power Fuses

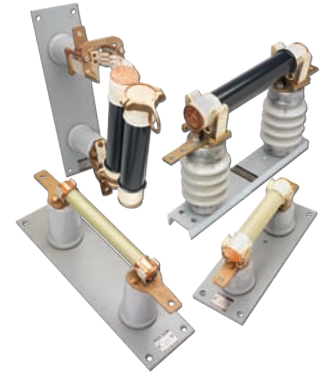
## Fuse Supports and Disconnecting Switches

9F61 Series

EK-1, EKO-1, EK-3, EKO-3

### Product Description

Fuse supports, non-disconnecting, are used primarily in potential transformer circuits, or where there is some other disconnecting or isolating device in series with the fuse in the circuit. Fuse supports can be mounted vertically or horizontally. The EKO-1 models are designed to be installed outdoors. Disconnecting switch devices have the additional feature of serving to isolate the equipment they protect. It should be noted that disconnecting switches are not load-breaking devices, therefore, the circuit must be open prior to the fuse disconnection. The EKO-3 models are designed to be installed outdoors. Select either a fuse support or a disconnecting switch for each fuse. Fuse supports and disconnecting switches include live parts for both ends.



### Fuse Support - EK-1 Indoor

| Catalog Number | Max. kV  | Ferrule Size/<br>Diam. | Clip<br>Centers | Spare Parts<br>(Live Parts) | Spare Parts (Clips)                     | Insulaor Rating<br>- Class/NEMA<br>Nominal Sys. (kV) | Insulator Rating<br>- BIL (kV) | Insulator Rating -<br>Class/NEMA<br>Tech Ref. |
|----------------|----------|------------------------|-----------------|-----------------------------|-----------------------------------------|------------------------------------------------------|--------------------------------|-----------------------------------------------|
| 9F61ABB101     | 2.75/5.5 | B/1.56"                | 8.12"           | 9F61BNW450                  | 9F61BWW460                              | 4.8                                                  | 60                             | A-20                                          |
| 9F61ABG101     | 8.25     | B/1.56"                | 8.12"           | 9F61BNW450                  | 9F61BWW460                              | 13.8                                                 | 95                             | A-20                                          |
| 9F61ADG101     | 15.5     | B/1.56"                | 11.5"           | 9F61BNW450                  | 9F61BWW460                              | 13.8                                                 | 95                             | A-20                                          |
| 9F61ADJ101     | 15.5     | B/1.56"                | 11.5"           | 9F61BNW450                  | 9F61BWW460                              | 14.4                                                 | 110                            | A-20                                          |
| 9F61AAB201     | 2.75     | C/2.00"                | 7"              | 9F61BNW451                  | 9F61BWW457                              | 4.8                                                  | 60                             | A-20                                          |
| 9F61ACB201     | 5.5      | C/2.00"                | 9"              | 9F61BNW451                  | 9F61BWW457                              | 4.8                                                  | 60                             | A-20                                          |
| 9F61AEG201     | 15.5     | C/2.00"                | 12"             | 9F61BNW451                  | 9F61BWW457                              | 13.8                                                 | 95                             | A-20                                          |
| 9F61AGG201     | 15.5     | C/2.00"                | 15"             | 9F61BNW451                  | 9F61BWW457                              | 13.8                                                 | 95                             | A-20                                          |
| 9F61AGJ201     | 15.5     | C/2.00"                | 15"             | 9F61BNW451                  | 9F61BWW457                              | 14.4                                                 | 110                            | A-20                                          |
| 9F61AHM201     | 25.8     | C/2.00"                | 21"             | 9F61BNW743                  | 9F61BWW457                              | 23                                                   | 150                            | A-20                                          |
| 9F61AAB301     | 2.75     | D/3.00"                | 7"              | 9F61BNW750                  | 9F61BWW459                              | 4.8                                                  | 60                             | A-20                                          |
| 9F61AEB301     | 2.75/5.5 | D/3.00"                | 12"             | 9F61BNW750                  | 9F61BWW459                              | 4.8                                                  | 60                             | A-20                                          |
| 9F61AEG301     | 8.25     | D/3.00"                | 12"             | 9F61BNW750                  | 9F61BWW459                              | 13.8                                                 | 95                             | A-20                                          |
| 9F61AGG301     | 15.5     | D/3.00"                | 15"             | 9F61BNW750                  | 9F61BWW459                              | 13.8                                                 | 95                             | A-20                                          |
| 9F61AGJ301     | 15.5     | D/3.00"                | 15"             | 9F61BNW750                  | 9F61BWW459                              | 14.4                                                 | 110                            | A-20                                          |
| 9F61AHM301     | 25.8     | D/3.00"                | 21"             | 9F61BNW744                  | 9F61BWW459                              | 23                                                   | 150                            | A-20                                          |
| 9F61AAB401     | 2.75     | DD/3.00"               | 7"              | 9F61BNW751                  | –                                       | 4.8                                                  | 60                             | A-20                                          |
| 9F61AEB401     | 2.75/5.5 | DD/3.00"               | 12"             | 9F61BNW751                  | –                                       | 4.8                                                  | 60                             | A-20                                          |
| 9F61AEG401     | 8.25     | DD/3.00"               | 12"             | 9F61BNW751                  | –                                       | 13.8                                                 | 95                             | A-20                                          |
| 9F61AGG401     | 15.5     | DD/3.00"               | 15"             | 9F61BNW751                  | –                                       | 13.8                                                 | 95                             | A-20                                          |
| 9F61AGJ401     | 15.5     | DD/3.00"               | 15"             | 9F61BNW751                  | –                                       | 14.4                                                 | 110                            | A-20                                          |
| 9F61AHM401     | 25.8     | DD/3.00"               | 21"             | 9F61AWW738                  | –                                       | 23                                                   | 150                            | A-20                                          |
| 9F61AFB501     | 5.08     | EE/4.00"               | 14.12"          | 9F61BNW452                  | –                                       | 4.8                                                  | 60                             | A-20                                          |
| 9F61AFG501     | 15       | EE/4.00"               | 14.12"          | 9F61BNW452                  | –                                       | 13.8                                                 | 95                             | A-20                                          |
| 9F61AFJ501     | 15       | EE/4.00"               | 14.12"          | 9F61BNW452                  | –                                       | 14.4                                                 | 110                            | A-20                                          |
| 9F61AHG001     |          | DDDD                   |                 |                             | For Bolted-end Fuses refer to drawings. |                                                      |                                |                                               |
| 9F61AHJ001     |          | DDDD                   |                 |                             | For Bolted-end Fuses refer to drawings. |                                                      |                                |                                               |
| 9F61AKB001     |          | DDDD                   |                 |                             | For Bolted-end Fuses refer to drawings. |                                                      |                                |                                               |

Refer to drawings for specific dimensions.

# Current-Limiting Power Fuses

## Fuse Supports and Disconnecting Switches

9F61 Series

EK-1, EKO-1, EK-3, EKO-3

### Disconnect Switch - EK-3 Indoor

| Catalog Number | Max. kV  | Ferrule Size/<br>Diam. | Clip Centers | Spare Parts<br>(Live Parts) | Spare Parts<br>(Clips) | Insulator Rating -<br>Nominal Sys. (kV) | Insulator Rating -<br>BIL (kV) | Insulator Rating -<br>Class/NEMA Tech Ref. |
|----------------|----------|------------------------|--------------|-----------------------------|------------------------|-----------------------------------------|--------------------------------|--------------------------------------------|
| 9F61AAB205     | 2.75     | C/2.00"                | 7"           | 9F61BNW731                  | 9F61BWW457             | 4.8                                     | 60                             | A-20                                       |
| 9F61ACB205     | 5.5      | C/2.00"                | 9"           | 9F61BNW731                  | 9F61BWW457             | 4.8                                     | 60                             | A-20                                       |
| 9F61AEG205     | 15.5     | C/2.00"                | 12"          | 9F61BNW731                  | 9F61BWW457             | 13.8                                    | 95                             | A-20                                       |
| 9F61AGG205     | 15.5     | C/2.00"                | 15"          | 9F61BNW731                  | 9F61BWW457             | 13.8                                    | 95                             | A-20                                       |
| 9F61AGJ205     | 15.5     | C/2.00"                | 15"          | 9F61BNW731                  | 9F61BWW457             | 14.4                                    | 110                            | A-20                                       |
| 9F61AHM205     | 25.8     | C/2.00"                | 21"          | 9F61BNW746                  | 9F61BWW457             | 23                                      | 150                            | A-20                                       |
| 9F61AAB305     | 2.75     | D/3.00"                | 7"           | 9F61BNW732                  | 9F61BWW459             | 4.8                                     | 60                             | A-20                                       |
| 9F61AEB305     | 2.75/5.5 | D/3.00"                | 12"          | 9F61BNW732                  | 9F61BWW459             | 4.8                                     | 60                             | A-20                                       |
| 9F61AEG305     | 8.25     | D/3.00"                | 12"          | 9F61BNW732                  | 9F61BWW459             | 13.8                                    | 95                             | A-20                                       |
| 9F61AGG305     | 15.5     | D/3.00"                | 15"          | 9F61BNW732                  | 9F61BWW459             | 13.8                                    | 95                             | A-20                                       |
| 9F61AGJ305     | 15.5     | D/3.00"                | 15"          | 9F61BNW732                  | 9F61BWW459             | 14.4                                    | 110                            | A-20                                       |
| 9F61AHM305     | 25.8     | D/3.00"                | 21"          | 9F61BNW747                  | 9F61BWW459             | 23                                      | 150                            | A-20                                       |
| 9F61AAB405     | 2.75     | DD/3.00"               | 7"           | 9F61BNW461                  | –                      | 4.8                                     | 60                             | A-20                                       |
| 9F61AEB405     | 2.75/5.5 | DD/3.00"               | 12"          | 9F61BNW461                  | –                      | 4.8                                     | 60                             | A-20                                       |
| 9F61AEG405     | 8.25     | DD/3.00"               | 12"          | 9F61BNW461                  | –                      | 13.8                                    | 95                             | A-20                                       |
| 9F61AGG405     | 15.5     | DD/3.00"               | 15"          | 9F61BNW461                  | –                      | 13.8                                    | 95                             | A-20                                       |
| 9F61AGJ405     | 15.5     | DD/3.00"               | 15"          | 9F61BNW461                  | –                      | 14.4                                    | 110                            | A-20                                       |
| 9F61AHM405     | 25.8     | DD/3.00"               | 21"          | 9F61BNW748                  | –                      | 23                                      | 150                            | A-20                                       |

Refer to drawings for specific dimensions.

### Fuse Support - EKO-1 Outdoor

| Catalog Number | Max. kV       | Ferrule<br>Size/Diam. | Clip<br>Centers | Spare Parts<br>(Live Parts) | Spare Parts<br>(Clips)                  | Insulator Rating -<br>Nominal Sys. (kV) | Insulator Rating -<br>BIL (kV) | Insulator Rating -<br>Class/NEMA Tech Ref. |
|----------------|---------------|-----------------------|-----------------|-----------------------------|-----------------------------------------|-----------------------------------------|--------------------------------|--------------------------------------------|
| 9F61CEF209     | 2.75/5.5/8.25 | C/2.00"               | 12"             | 9F61BNW743                  | 9F61BWW457                              | 7.5                                     | 95                             | 202                                        |
| 9F61CGL209     | 15.5          | C/2.00"               | 15"             | 9F61BNW743                  | 9F61BWW457                              | 15                                      | 110                            | 205                                        |
| 9F61CHM209     | 25.8          | C/2.00"               | 21"             | 9F61BNW743                  | 9F61BWW457                              | 23                                      | 150                            | 208                                        |
| 9F61CEF309     | 2.75/5.5/8.25 | D/3.00"               | 12"             | 9F61BNW744                  | 9F61BWW459                              | 7.5                                     | 95                             | 202                                        |
| 9F61CGL309     | 15.5          | D/3.00"               | 15"             | 9F61BNW744                  | 9F61BWW459                              | 15                                      | 110                            | 205                                        |
| 9F61CHM309     | 25.8          | D/3.00"               | 21"             | 9F61BNW744                  | 9F61BWW459                              | 23                                      | 150                            | 208                                        |
| 9F61CJN309     | 38            | D/3.00"               | 27"             | 9F61BNW744                  | 9F61BWW459                              | 34.5                                    | 200                            | 210                                        |
| 9F61CEF409     | 2.75/5.5/8.25 | DD/3.00"              | 12"             | 9F61AWW738                  | –                                       | 7.5                                     | 95                             | 202                                        |
| 9F61CGL409     | 15.5          | DD/3.00"              | 15"             | 9F61AWW738                  | –                                       | 15                                      | 110                            | 205                                        |
| 9F61CHM409     | 25.8          | DD/3.00"              | 21"             | 9F61AWW738                  | –                                       | 23                                      | 150                            | 208                                        |
| 9F61CJN409     | 38            | DD/3.00"              | 27"             | 9F61AWW738                  | –                                       | 34.5                                    | 200                            | 210                                        |
| 9F61CHL009     |               | DDDD                  |                 |                             | For Bolted-end Fuses refer to drawings. |                                         |                                |                                            |
| 9F61CKF009     |               | DDDD                  |                 |                             | For Bolted-end Fuses refer to drawings. |                                         |                                |                                            |

Refer to drawings for specific dimensions.

# Current-Limiting Power Fuses

## Fuse Supports and Disconnecting Switches

9F61 Series

EK-1, EKO-1, EK-3, EKO-3

### Disconnect Switch - EKO-3 Outdoor

| Catalog Number | Max. kV       | Ferrule Size/Diam. | Clip Centers | Spare Parts (Live Parts) | Spare Parts (Clips) | Insulator Rating - Nominal Sys. (kV) | Insulator Rating - BIL (kV) | Insulator Rating - Class/NEMA Tech Ref. |
|----------------|---------------|--------------------|--------------|--------------------------|---------------------|--------------------------------------|-----------------------------|-----------------------------------------|
| 9F61CEF210     | 2.75/5.5/8.25 | C/2.00"            | 12"          | 9F61BNW746               | 9F61BWW457          | 7.5                                  | 95                          | 202                                     |
| 9F61CGL210     | 15.5          | C/2.00"            | 15"          | 9F61BNW746               | 9F61BWW457          | 15                                   | 110                         | 205                                     |
| 9F61CHM210     | 25.8          | C/2.00"            | 21"          | 9F61BNW746               | 9F61BWW457          | 23                                   | 150                         | 208                                     |
| 9F61CEF310     | 2.75/5.5/8.25 | D/3.00"            | 12"          | 9F61BNW747               | 9F61BWW459          | 7.5                                  | 95                          | 202                                     |
| 9F61CGL310     | 15.5          | D/3.00"            | 15"          | 9F61BNW747               | 9F61BWW459          | 15                                   | 110                         | 205                                     |
| 9F61CHM310     | 25.8          | D/3.00"            | 21"          | 9F61BNW747               | 9F61BWW459          | 23                                   | 150                         | 208                                     |
| 9F61CJN310     | 38            | D/3.00"            | 27"          | 9F61BNW747               | 9F61BWW459          | 34.5                                 | 200                         | 210                                     |
| 9F61CEF410     | 2.75/5.5/8.25 | DD/3.00"           | 12"          | 9F61BNW748               | –                   | 7.5                                  | 95                          | 202                                     |
| 9F61CGL410     | 15.5          | DD/3.00"           | 15"          | 9F61BNW748               | –                   | 15                                   | 110                         | 205                                     |
| 9F61CHM410     | 25.8          | DD/3.00"           | 21"          | 9F61BNW748               | –                   | 23                                   | 150                         | 208                                     |
| 9F61CJN410     | 38            | DD/3.00"           | 27"          | 9F61BNW748               | –                   | 34.5                                 | 200                         | 210                                     |

Refer to drawings for specific dimensions.

IMPORTANT: When selecting a mounting for a current-limiting fuse, it is necessary that the clip centers and size agree with the fuse selected.

## Accessories and Spare Parts

### Hinge Trunions and Operating Eyes for Use on Disconnecting Switches

| Fuse Size | Hinge Trunion Model No. | Operating Eye Model No. |
|-----------|-------------------------|-------------------------|
| C         | 9F61BJW397              | 9F61BFW394              |
| D         | 9F61BKW398              | 9F61AWW612              |
| DD        | 9F61BLW399              | 9F61AWW612              |

### Conversion Kit - D to DD for Use on Fuse Supports

| Model No.  | Used on Live Parts   |
|------------|----------------------|
| 9F61BNW402 | 9F61BNW751 (indoor)  |
|            | 9F61AWW738 (outdoor) |

# Current-Limiting Power Fuses

## Spare Parts - Fuse Supports/Disconnect Switches

9F61 Series

Live Parts/Fuse Clips

### Spare Parts (Live Parts/Fuse Clips) - Fuse Supports and Disconnect Switches

| Fuse Supports and Disconnect Switches | Spare Live Parts <sup>1</sup> | Spare Fuse Clips <sup>2</sup> |
|---------------------------------------|-------------------------------|-------------------------------|
| 9F61AAB201                            | 9F61BNW451                    | 9F61BWW457                    |
| 9F61AAB205                            | 9F61BNW731                    | 9F61BWW457                    |
| 9F61AAB301                            | 9F61BNW750                    | 9F61BWW459                    |
| 9F61AAB305                            | 9F61BNW732                    | 9F61BWW459                    |
| 9F61AAB401                            | 9F61BNW751                    | N/A                           |
| 9F61AAB405                            | 9F61BNW461                    | N/A                           |
| 9F61ABB101                            | 9F61BNW450                    | 9F61BWW460                    |
| 9F61ABG101                            | 9F61BNW450                    | 9F61BWW460                    |
| 9F61ACB201                            | 9F61BNW451                    | 9F61BWW457                    |
| 9F61ACB205                            | 9F61BNW731                    | 9F61BWW457                    |
| 9F61ADG101                            | 9F61BNW450                    | 9F61BWW460                    |
| 9F61ADJ101                            | 9F61BNW450                    | 9F61BWW460                    |
| 9F61AEB301                            | 9F61BNW750                    | 9F61BWW459                    |
| 9F61AEB305                            | 9F61BNW732                    | 9F61BWW459                    |
| 9F61AEB401                            | 9F61BNW751                    | N/A                           |
| 9F61AEB405                            | 9F61BNW461                    | N/A                           |
| 9F61AEG201                            | 9F61BNW451                    | 9F61BWW457                    |
| 9F61AEG205                            | 9F61BNW731                    | 9F61BWW457                    |
| 9F61AEG301                            | 9F61BNW750                    | 9F61BWW459                    |
| 9F61AEG305                            | 9F61BNW732                    | 9F61BWW459                    |
| 9F61AEG401                            | 9F61BNW751                    | N/A                           |
| 9F61AEG405                            | 9F61BNW461                    | N/A                           |
| 9F61AFB501                            | 9F61BNW452                    | N/A                           |
| 9F61AFG501                            | 9F61BNW452                    | N/A                           |
| 9F61AFJ501                            | 9F61BNW452                    | N/A                           |
| 9F61AGG201                            | 9F61BNW451                    | 9F61BWW457                    |
| 9F61AGG205                            | 9F61BNW731                    | 9F61BWW457                    |
| 9F61AGG301                            | 9F61BNW750                    | 9F61BWW459                    |
| 9F61AGG305                            | 9F61BNW732                    | 9F61BWW459                    |
| 9F61AGG401                            | 9F61BNW751                    | N/A                           |
| 9F61AGG405                            | 9F61BNW461                    | N/A                           |
| 9F61AGJ201                            | 9F61BNW451                    | 9F61BWW457                    |
| 9F61AGJ205                            | 9F61BNW731                    | 9F61BWW457                    |
| 9F61AGJ301                            | 9F61BNW750                    | 9F61BWW459                    |
| 9F61AGJ305                            | 9F61BNW732                    | 9F61BWW459                    |
| 9F61AGJ401                            | 9F61BNW751                    | N/A                           |
| 9F61AGJ405                            | 9F61BNW461                    | N/A                           |

### Spare Parts (Live Parts/Fuse Clips) - Fuse Supports and Disconnect Switches (Continued)

| Fuse Supports and Disconnect Switches | Spare Live Parts <sup>1</sup> | Spare Fuse Clips <sup>2</sup> |
|---------------------------------------|-------------------------------|-------------------------------|
| 9F61AHM201                            | 9F61BNW743                    | 9F61BWW457                    |
| 9F61AHM205                            | 9F61BNW746                    | 9F61BWW457                    |
| 9F61AHM301                            | 9F61BNW744                    | 9F61BWW459                    |
| 9F61AHM305                            | 9F61BNW747                    | 9F61BWW459                    |
| 9F61AHM401                            | 9F61AWW738                    | N/A                           |
| 9F61AHM405                            | 9F61BNW748                    | N/A                           |
| 9F61CEF209                            | 9F61BNW743                    | 9F61BWW457                    |
| 9F61CEF210                            | 9F61BNW746                    | 9F61BWW457                    |
| 9F61CEF309                            | 9F61BNW744                    | 9F61BWW459                    |
| 9F61CEF310                            | 9F61BNW747                    | 9F61BWW459                    |
| 9F61CEF409                            | 9F61AWW738                    | N/A                           |
| 9F61CEF410                            | 9F61BNW748                    | N/A                           |
| 9F61CGL209                            | 9F61BNW743                    | 9F61BWW457                    |
| 9F61CGL210                            | 9F61BNW746                    | 9F61BWW457                    |
| 9F61CGL309                            | 9F61BNW744                    | 9F61BWW459                    |
| 9F61CGL310                            | 9F61BNW747                    | 9F61BWW459                    |
| 9F61CGL409                            | 9F61AWW738                    | N/A                           |
| 9F61CGL410                            | 9F61BNW748                    | N/A                           |
| 9F61CHM209                            | 9F61BNW743                    | 9F61BWW457                    |
| 9F61CHM210                            | 9F61BNW746                    | 9F61BWW457                    |
| 9F61CHM309                            | 9F61BNW744                    | 9F61BWW459                    |
| 9F61CHM310                            | 9F61BNW747                    | 9F61BWW459                    |
| 9F61CHM409                            | 9F61AWW738                    | N/A                           |
| 9F61CHM410                            | 9F61BNW748                    | N/A                           |
| 9F61CJN309                            | 9F61BNW744                    | 9F61BWW459                    |
| 9F61CJN310                            | 9F61BNW747                    | 9F61BWW459                    |
| 9F61CJN409                            | 9F61AWW738                    | N/A                           |
| 9F61CJN410                            | 9F61BNW748                    | N/A                           |

<sup>1</sup> LIVE PARTS: Order (1) Live Parts for each Fuse Support and Disconnecting Switch (includes live parts for both ends).

<sup>2</sup> FUSE CLIPS: Order (2) Fuse Clips for each Fuse Support and order (1) Fuse Clip for each Disconnecting Switch.

## Current-Limiting Power Fuses

### Spare Parts (Live Parts/Fuse Clips) - Potential Transformer Fuses

| Potential Transformer Product Number | Spare Live Parts <sup>1</sup> | Spare Fuse Clips <sup>2</sup> |
|--------------------------------------|-------------------------------|-------------------------------|
| 9F60AAA__                            | N/A                           | N/A                           |
| 9F60AAB__                            | N/A                           | N/A                           |
| 9F60BBB__                            | 9F61BNW450                    | 9F61BWW460                    |
| 9F60BBD__                            | 9F61BNW450                    | 9F61BWW460                    |
| 9F60BBN__                            | 9F61BNW450                    | 9F61BWW460                    |
| 9F60BDB__                            | 9F61BNW450                    | 9F61BWW460                    |
| 9F60BDD__                            | 9F61BNW450                    | 9F61BWW460                    |
| 9F60BDE__                            | 9F61BNW450                    | 9F61BWW460                    |
| 9F60BHH__                            | 9F61BNW450                    | 9F61BWW460                    |

### Spare Parts (Live Parts/Fuse Clips) - Motor Starter Fuses

| Motor Starter Product Number | Spare Live Parts <sup>1</sup> | Spare Fuse Clips <sup>2</sup> |
|------------------------------|-------------------------------|-------------------------------|
| 9F60LCB5__                   | 9F61BNW750                    | 9F61BWW459                    |
| 9F60LCL3__                   | 9F61BNW750                    | 9F61BWW459                    |
| 9F60LJD5__                   | 9F61BNW750                    | 9F61BWW459                    |
| 9F60LJN3__                   | 9F61BNW750                    | 9F61BWW459                    |
| 9F60MCB5__                   | 9F61BNW751                    | N/A                           |
| 9F60MCL3__                   | 9F61BNW751                    | N/A                           |
| 9F60MJD5__                   | 9F61BNW751                    | N/A                           |
| 9F60MJN3__                   | 9F61BNW751                    | N/A                           |
| 9F60NLD8__                   | 9F61BNW452                    | N/A                           |
| 9F60TQB__                    | N/A                           | N/A                           |
| 9F60TRD__                    | N/A                           | N/A                           |

<sup>1</sup> LIVE PARTS: Order (1) Live Parts for each Fuse Support and Disconnecting Switch (includes live parts for both ends).

<sup>2</sup> FUSE CLIPS: Order (2) Fuse Clips for each Fuse Support and order (1) Fuse Clip for each Disconnecting Switch.

# Current-Limiting Power Fuses

## External Transformer Protection (ETP) Fuses

### 9F59U Series

#### Product Description

Backup current-limiting fuses designed to protect transformers are used in series with another protective device (such as an expulsion fuse). This combination limits the high-fault current to a safe level, thus providing protection through the complete range. As its name implies, the “ETP” is for External Transformer Protection. For conventional transformers protected by expulsion-fuse cutouts, the ETP can be installed in series with the cutout. For self-protected transformers, the ETP can be applied on the high-voltage bushing in series with the internal transformerexpulsion fuse. From 8.3kV to 23kV and from 8T to 80K. Interrupting rating 50 kA Sym.



#### SURE GUARD

| Catalog Number | ETP Rating         | ETP Hardware                       | Minimum kV Class | Recommended Max. Expulsion | Max. Total I <sup>2</sup> T | I.C. Amperes | Min. Melt Curve | Total Clear Curve | Let-through Curve |
|----------------|--------------------|------------------------------------|------------------|----------------------------|-----------------------------|--------------|-----------------|-------------------|-------------------|
| 9F59UBC101     | 8.3, Spade & Stud  | Without Hardware                   | 15               | 8T or 12K                  | 16000                       | 440          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC111     | 8.3, Spade & Stud  | (1) Adapter                        | 15               | 8T or 12K                  | 16000                       | 440          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC121     | 8.3, Spade & Stud  | (1) Eyebolt Terminal               | 15               | 8T or 12K                  | 16000                       | 440          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC131     | 8.3, Spade & Stud  | (1) Parallel Groove                | 15               | 8T or 12K                  | 16000                       | 440          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC201     | 8.3, Spade & Spade | Without Hardware                   | 15               | 8T or 12K                  | 16000                       | 440          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC211     | 8.3, Spade & Spade | (1) Adapter                        | 15               | 8T or 12K                  | 16000                       | 440          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC221     | 8.3, Spade & Spade | (1) Eyebolt Terminal               | 15               | 8T or 12K                  | 16000                       | 440          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC231     | 8.3, Spade & Spade | (1) Parallel Groove                | 15               | 8T or 12K                  | 16000                       | 440          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC241     | 8.3, Spade & Spade | Adapter & eyebolt terminal         | 15               | 8T or 12K                  | 16000                       | 440          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC251     | 8.3, Spade & Spade | Adapter & parallel groove          | 15               | 8T or 12K                  | 16000                       | 440          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC261     | 8.3, Spade & Spade | Eyebolt terminal & parallel groove | 15               | 8T or 12K                  | 16000                       | 440          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC271     | 8.3, Spade & Spade | (2) Eyebolt terminals              | 15               | 8T or 12K                  | 16000                       | 440          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC281     | 8.3, Spade & Spade | (2) Parallel groove                | 15               | 8T or 12K                  | 16000                       | 440          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC102     | 8.3, Spade & Stud  | Without Hardware                   | 15               | 15T or 25K                 | 50000                       | 450          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC112     | 8.3, Spade & Stud  | (1) Adapter                        | 15               | 15T or 25K                 | 50000                       | 450          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC122     | 8.3, Spade & Stud  | (1) Eyebolt Terminal               | 15               | 15T or 25K                 | 50000                       | 450          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC132     | 8.3, Spade & Stud  | (1) Parallel Groove                | 15               | 15T or 25K                 | 50000                       | 450          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC202     | 8.3, Spade & Spade | Without Hardware                   | 15               | 15T or 25K                 | 50000                       | 450          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC212     | 8.3, Spade & Spade | (1) Adapter                        | 15               | 15T or 25K                 | 50000                       | 450          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC222     | 8.3, Spade & Spade | (1) Eyebolt Terminal               | 15               | 15T or 25K                 | 50000                       | 450          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC232     | 8.3, Spade & Spade | (1) Parallel Groove                | 15               | 15T or 25K                 | 50000                       | 450          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC242     | 8.3, Spade & Spade | Adapter & eyebolt terminal         | 15               | 15T or 25K                 | 50000                       | 450          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC252     | 8.3, Spade & Spade | Adapter & parallel groove          | 15               | 15T or 25K                 | 50000                       | 450          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC262     | 8.3, Spade & Spade | Eyebolt terminal & parallel groove | 15               | 15T or 25K                 | 50000                       | 450          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC272     | 8.3, Spade & Spade | (2) Eyebolt terminals              | 15               | 15T or 25K                 | 50000                       | 450          | GES-8228A       | GES-8229A         | GET-6693A         |

# Current-Limiting Power Fuses

## External Transformer Protection (ETP) Fuses

### 9F59U Series

#### SURE GUARD (Continued)

| Catalog Number | ETP Rating          | ETP Hardware                       | kV Class | Recommended Max. Expulsion | Minimum Max. Total I <sup>2</sup> T | I.C. Amperes | Min. Melt Curve | Total Clear Curve | Let-through Curve |
|----------------|---------------------|------------------------------------|----------|----------------------------|-------------------------------------|--------------|-----------------|-------------------|-------------------|
| 9F59UBC282     | 8.3, Spade & Spade  | (2) Parallel groove                | 15       | 15T or 25K                 | 50000                               | 450          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC104     | 8.3, Spade & Stud   | Without Hardware                   | 15       | 25T or 40K                 | 140000                              | 560          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC114     | 8.3, Spade & Stud   | (1) Adapter                        | 15       | 25T or 40K                 | 140000                              | 560          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC124     | 8.3, Spade & Stud   | (1) Eyebolt Terminal               | 15       | 25T or 40K                 | 140000                              | 560          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC134     | 8.3, Spade & Stud   | (1) Parallel Groove                | 15       | 25T or 40K                 | 140000                              | 560          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC204     | 8.3, Spade & Spade  | Without Hardware                   | 15       | 25T or 40K                 | 140000                              | 560          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC214     | 8.3, Spade & Spade  | (1) Adapter                        | 15       | 25T or 40K                 | 140000                              | 560          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC224     | 8.3, Spade & Spade  | (1) Eyebolt Terminal               | 15       | 25T or 40K                 | 140000                              | 560          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC234     | 8.3, Spade & Spade  | (1) Parallel Groove                | 15       | 25T or 40K                 | 140000                              | 560          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC244     | 8.3, Spade & Spade  | Adapter & eyebolt terminal         | 15       | 25T or 40K                 | 140000                              | 560          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC254     | 8.3, Spade & Spade  | Adapter & parallel groove          | 15       | 25T or 40K                 | 140000                              | 560          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC264     | 8.3, Spade & Spade  | Eyebolt terminal & parallel groove | 15       | 25T or 40K                 | 140000                              | 560          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC274     | 8.3, Spade & Spade  | (2) Eyebolt terminals              | 15       | 25T or 40K                 | 140000                              | 560          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC284     | 8.3, Spade & Spade  | (2) Parallel groove                | 15       | 25T or 40K                 | 140000                              | 560          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC208     | 8.3, Spade & Spade  | Without Hardware                   | 15       | 50T or 80K                 | 88000                               | 1200         | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC218     | 8.3, Spade & Spade  | (1) Adapter                        | 15       | 50T or 80K                 | 88000                               | 1200         | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC228     | 8.3, Spade & Spade  | (1) Eyebolt Terminal               | 15       | 50T or 80K                 | 88000                               | 1200         | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC238     | 8.3, Spade & Spade  | (1) Parallel Groove                | 15       | 50T or 80K                 | 88000                               | 1200         | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC248     | 8.3, Spade & Spade  | Adapter & eyebolt terminal         | 15       | 50T or 80K                 | 88000                               | 1200         | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC258     | 8.3, Spade & Spade  | Adapter & parallel groove          | 15       | 50T or 80K                 | 88000                               | 1200         | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC268     | 8.3, Spade & Spade  | Eyebolt terminal & parallel groove | 15       | 50T or 80K                 | 88000                               | 1200         | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC278     | 8.3, Spade & Spade  | (2) Eyebolt terminals              | 15       | 50T or 80K                 | 88000                               | 1200         | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBC288     | 8.3, Spade & Spade  | (2) Parallel groove                | 15       | 50T or 80K                 | 88000                               | 1200         | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD101     | 15.5, Spade & Stud  | Without Hardware                   | 25       | 8T or 12K                  | 16000                               | 510          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD111     | 15.5, Spade & Stud  | (1) Adapter                        | 25       | 8T or 12K                  | 16000                               | 510          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD121     | 15.5, Spade & Stud  | (1) Eyebolt Terminal               | 25       | 8T or 12K                  | 16000                               | 510          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD131     | 15.5, Spade & Stud  | (1) Parallel Groove                | 25       | 8T or 12K                  | 16000                               | 510          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD201     | 15.5, Spade & Spade | Without Hardware                   | 25       | 8T or 12K                  | 16000                               | 510          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD211     | 15.5, Spade & Spade | (1) Adapter                        | 25       | 8T or 12K                  | 16000                               | 510          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD221     | 15.5, Spade & Spade | (1) Eyebolt Terminal               | 25       | 8T or 12K                  | 16000                               | 510          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD231     | 15.5, Spade & Spade | (1) Parallel Groove                | 25       | 8T or 12K                  | 16000                               | 510          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD241     | 15.5, Spade & Spade | Adapter & eyebolt terminal         | 25       | 8T or 12K                  | 16000                               | 510          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD251     | 15.5, Spade & Spade | Adapter & parallel groove          | 25       | 8T or 12K                  | 16000                               | 510          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD261     | 15.5, Spade & Spade | Eyebolt terminal & parallel groove | 25       | 8T or 12K                  | 16000                               | 510          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD271     | 15.5, Spade & Spade | (2) Eyebolt terminals              | 25       | 8T or 12K                  | 16000                               | 510          | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD281     | 15.5, Spade & Spade | (2) Parallel groove                | 25       | 8T or 12K                  | 16000                               | 510          | GES-8228A       | GES-8229A         | GET-6693A         |

# Current-Limiting Power Fuses

## External Transformer Protection (ETP) Fuses

9F59U Series

### SURE GUARD (Continued)

| Catalog Number | ETP Rating          | ETP Hardware                       | kV Class | Recommended Max. Expulsion | Max. Total I <sup>2</sup> T | Minimum I.C. Amperes | Min. Melt Curve | Total Clear Curve | Let-through Curve |
|----------------|---------------------|------------------------------------|----------|----------------------------|-----------------------------|----------------------|-----------------|-------------------|-------------------|
| 9F59UBD102     | 15.5, Spade & Stud  | Without Hardware                   | 25       | 15T or 25K                 | 50000                       | 480                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD112     | 15.5, Spade & Stud  | (1) Adapter                        | 25       | 15T or 25K                 | 50000                       | 480                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD122     | 15.5, Spade & Stud  | (1) Eyebolt Terminal               | 25       | 15T or 25K                 | 50000                       | 480                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD132     | 15.5, Spade & Stud  | (1) Parallel Groove                | 25       | 15T or 25K                 | 50000                       | 480                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD202     | 15.5, Spade & Spade | Without Hardware                   | 25       | 15T or 25K                 | 50000                       | 480                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD212     | 15.5, Spade & Spade | (1) Adapter                        | 25       | 15T or 25K                 | 50000                       | 480                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD222     | 15.5, Spade & Spade | (1) Eyebolt Terminal               | 25       | 15T or 25K                 | 50000                       | 480                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD232     | 15.5, Spade & Spade | (1) Parallel Groove                | 25       | 15T or 25K                 | 50000                       | 480                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD242     | 15.5, Spade & Spade | Adapter & eyebolt terminal         | 25       | 15T or 25K                 | 50000                       | 480                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD252     | 15.5, Spade & Spade | Adapter & parallel groove          | 25       | 15T or 25K                 | 50000                       | 480                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD262     | 15.5, Spade & Spade | Eyebolt terminal & parallel groove | 25       | 15T or 25K                 | 50000                       | 480                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD272     | 15.5, Spade & Spade | (2) Eyebolt terminals              | 25       | 15T or 25K                 | 50000                       | 480                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD282     | 15.5, Spade & Spade | (2) Parallel groove                | 25       | 15T or 25K                 | 50000                       | 480                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD104     | 15.5, Spade & Stud  | Without Hardware                   | 25       | 25T or 40K                 | 140000                      | 890                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD114     | 15.5, Spade & Stud  | (1) Adapter                        | 25       | 25T or 40K                 | 140000                      | 890                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD124     | 15.5, Spade & Stud  | (1) Eyebolt Terminal               | 25       | 25T or 40K                 | 140000                      | 890                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD134     | 15.5, Spade & Stud  | (1) Parallel Groove                | 25       | 25T or 40K                 | 140000                      | 890                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD204     | 15.5, Spade & Spade | Without Hardware                   | 25       | 25T or 40K                 | 140000                      | 890                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD214     | 15.5, Spade & Spade | (1) Adapter                        | 25       | 25T or 40K                 | 140000                      | 890                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD224     | 15.5, Spade & Spade | (1) Eyebolt Terminal               | 25       | 25T or 40K                 | 140000                      | 890                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD234     | 15.5, Spade & Spade | (1) Parallel Groove                | 25       | 25T or 40K                 | 140000                      | 890                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD244     | 15.5, Spade & Spade | Adapter & eyebolt terminal         | 25       | 25T or 40K                 | 140000                      | 890                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD254     | 15.5, Spade & Spade | Adapter & parallel groove          | 25       | 25T or 40K                 | 140000                      | 890                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD264     | 15.5, Spade & Spade | Eyebolt terminal & parallel groove | 25       | 25T or 40K                 | 140000                      | 890                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD274     | 15.5, Spade & Spade | (2) Eyebolt terminals              | 25       | 25T or 40K                 | 140000                      | 890                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD284     | 15.5, Spade & Spade | (2) Parallel groove                | 25       | 25T or 40K                 | 140000                      | 890                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD208     | 15.5, Spade & Spade | Without Hardware                   | 25       | 50T or 80K                 | 88000                       | 1200                 | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD218     | 15.5, Spade & Spade | (1) Adapter                        | 25       | 50T or 80K                 | 88000                       | 1200                 | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD228     | 15.5, Spade & Spade | (1) Eyebolt Terminal               | 25       | 50T or 80K                 | 88000                       | 1200                 | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD238     | 15.5, Spade & Spade | (1) Parallel Groove                | 25       | 50T or 80K                 | 88000                       | 1200                 | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD248     | 15.5, Spade & Spade | Adapter & eyebolt terminal         | 25       | 50T or 80K                 | 88000                       | 1200                 | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD258     | 15.5, Spade & Spade | Adapter & parallel groove          | 25       | 50T or 80K                 | 88000                       | 1200                 | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD268     | 15.5, Spade & Spade | Eyebolt terminal & parallel groove | 25       | 50T or 80K                 | 88000                       | 1200                 | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD278     | 15.5, Spade & Spade | (2) Eyebolt terminals              | 25       | 50T or 80K                 | 88000                       | 1200                 | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBD288     | 15.5, Spade & Spade | (2) Parallel groove                | 25       | 50T or 80K                 | 88000                       | 1200                 | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE101     | 23.0, Spade & Stud  | Without Hardware                   | 35       | 8T or 12K                  | 16000                       | 280                  | GES-8228A       | GES-8229A         | GET-6693A         |

# Current-Limiting Power Fuses

## External Transformer Protection (ETP) Fuses

9F59U Series

### SURE GUARD (Continued)

| Catalog Number | ETP Rating          | ETP Hardware                       | kV Class | Recommended Max. Expulsion | Max. Total I <sup>2</sup> T | Minimum I.C. Amperes | Min. Melt Curve | Total Clear Curve | Let-through Curve |
|----------------|---------------------|------------------------------------|----------|----------------------------|-----------------------------|----------------------|-----------------|-------------------|-------------------|
| 9F59UBE111     | 23.0, Spade & Stud  | (1) Adapter                        | 35       | 8T or 12K                  | 16000                       | 280                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE121     | 23.0, Spade & Stud  | (1) Eyebolt Terminal               | 35       | 8T or 12K                  | 16000                       | 280                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE131     | 23.0, Spade & Stud  | (1) Parallel Groove                | 35       | 8T or 12K                  | 16000                       | 280                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE201     | 23.0, Spade & Spade | Without Hardware                   | 35       | 8T or 12K                  | 16000                       | 280                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE211     | 23.0, Spade & Spade | (1) Adapter                        | 35       | 8T or 12K                  | 16000                       | 280                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE221     | 23.0, Spade & Spade | (1) Eyebolt Terminal               | 35       | 8T or 12K                  | 16000                       | 280                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE231     | 23.0, Spade & Spade | (1) Parallel Groove                | 35       | 8T or 12K                  | 16000                       | 280                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE241     | 23.0, Spade & Spade | Adapter & eyebolt terminal         | 35       | 8T or 12K                  | 16000                       | 280                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE251     | 23.0, Spade & Spade | Adapter & parallel groove          | 35       | 8T or 12K                  | 16000                       | 280                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE261     | 23.0, Spade & Spade | Eyebolt terminal & parallel groove | 35       | 8T or 12K                  | 16000                       | 280                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE271     | 23.0, Spade & Spade | (2) Eyebolt terminals              | 35       | 8T or 12K                  | 16000                       | 280                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE281     | 23.0, Spade & Spade | (2) Parallel groove                | 35       | 8T or 12K                  | 16000                       | 280                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE102     | 23.0, Spade & Stud  | Without Hardware                   | 35       | 15T or 25K                 | 70000                       | 460                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE112     | 23.0, Spade & Stud  | (1) Adapter                        | 35       | 15T or 25K                 | 70000                       | 460                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE122     | 23.0, Spade & Stud  | (1) Eyebolt Terminal               | 35       | 15T or 25K                 | 70000                       | 460                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE132     | 23.0, Spade & Stud  | (1) Parallel Groove                | 35       | 15T or 25K                 | 70000                       | 460                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE202     | 23.0, Spade & Spade | Without Hardware                   | 35       | 15T or 25K                 | 70000                       | 460                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE212     | 23.0, Spade & Spade | (1) Adapter                        | 35       | 15T or 25K                 | 70000                       | 460                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE222     | 23.0, Spade & Spade | (1) Eyebolt Terminal               | 35       | 15T or 25K                 | 70000                       | 460                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE232     | 23.0, Spade & Spade | (1) Parallel Groove                | 35       | 15T or 25K                 | 70000                       | 460                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE242     | 23.0, Spade & Spade | Adapter & eyebolt terminal         | 35       | 15T or 25K                 | 70000                       | 460                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE252     | 23.0, Spade & Spade | Adapter & parallel groove          | 35       | 15T or 25K                 | 70000                       | 460                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE262     | 23.0, Spade & Spade | Eyebolt terminal & parallel groove | 35       | 15T or 25K                 | 70000                       | 460                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE272     | 23.0, Spade & Spade | (2) Eyebolt terminals              | 35       | 15T or 25K                 | 70000                       | 460                  | GES-8228A       | GES-8229A         | GET-6693A         |
| 9F59UBE282     | 23.0, Spade & Spade | (2) Parallel groove                | 35       | 15T or 25K                 | 70000                       | 460                  | GES-8228A       | GES-8229A         | GET-6693A         |

### Hardware Options

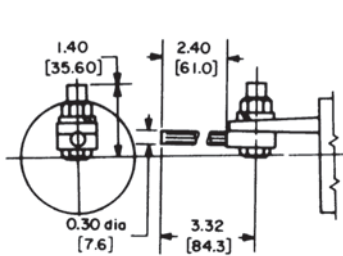


Fig. 1. Adapter only  
9F59AAW007

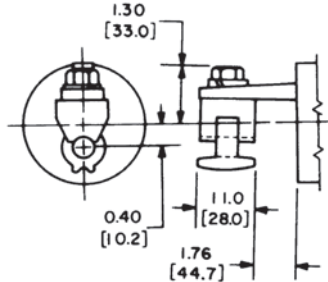


Fig. 2. Eyebolt only,  
for 6-2/0 cable  
9F59AAW008

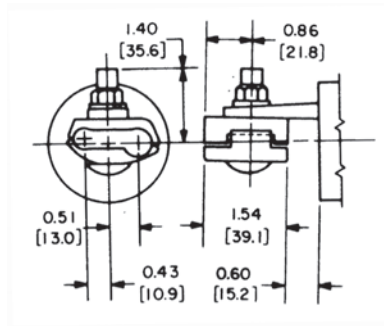


Fig. 3. Parallel groove only,  
for 2/0 to 250MCM cable  
9F59AAW009

### Catalog Nos. Suitable for Parallel Application

| Catalog Number | Max kV |
|----------------|--------|
| 9F59UBC208     | 8.3    |
| 9F59UBC218     | 8.3    |
| 9F59UBC228     | 8.3    |
| 9F59UBC238     | 8.3    |
| 9F59UBC248     | 8.3    |
| 9F59UBC258     | 8.3    |
| 9F59UBC268     | 8.3    |
| 9F59UBC278     | 8.3    |
| 9F59UBC288     | 8.3    |
| 9F59UBD208     | 15.5   |
| 9F59UBD218     | 15.5   |
| 9F59UBD228     | 15.5   |
| 9F59UBD238     | 15.5   |
| 9F59UBD248     | 15.5   |
| 9F59UBD258     | 15.5   |
| 9F59UBD268     | 15.5   |
| 9F59UBD278     | 15.5   |
| 9F59UBD288     | 15.5   |





**A relentless pursuit of protection for electrical components, systems—and the people who use them.**

Ferraz Shawmut is an international company manufacturing the widest range of circuit protection solutions in the electrical industry. Drawing on a century of experience—and an ongoing commitment to critical research in electrical safety—we provide industrial, commercial, and OEM customers with innovative products and technical support teams to increase effectiveness, simplify applications, and enhance productivity.



BR-GECA-001