Specifications

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★ Fault Tamer Fuse Limiter is manufactured in accordance with a quality system certified to ISO 9001:2000.

September 21, 2026
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Standard

The seller's standard conditions of sale set forth in Price Sheet 150 apply.

Special to this Product

Inclusions

The Fault Tamer Fuse Limiter consists of a mounting, backup limiter, and fuse tube.

Exclusions

Fault Tamer Fuse Limiters do not include fuse cartridges.

Fault Tamer Fuse Limiters for use in new installations do not include mounting brackets, which are available, as listed in Table 3 on page 5. Various connectors are also available as listed in Table 4 on page 6.

Application Note

Fault Tamer Fuse Limiters are ideally suited for single-phase transformers, for three-phase banks of single-phase transformers, and for three-phase transformers.

The Fault Tamer Fuse Limiter has been tested to and is in compliance with Spark Production Class A in Australian Standard AS 1033.1-1990. To be in compliance with Spark Production Class A, no sparks may be produced during a fault-clearing operation (an extremely significant reduction in fire hazard as compared to fuse cutouts).

The Fault Tamer Fuse Limiter should be selected to have a system maximum three-phase voltage rating equal to—or greater than—the system line-to-line voltage. To ensure proper coordination of a Fault Tamer Fuse Limiter with system surge arresters, it is also important that the system voltage is not too low relative to the Fault Tamer Fuse Limiter's system voltage class rating. To satisfy both of these requirements, the following specific system-voltage and minimum surge arrester recommendations should be observed:

Fault Tamer System Voltage Class Rating kV, ANSI (IEC)	Applicable 60-Hz System Voltage, kV	Applicable 50-Hz System Voltage, kV	Minimum Surge Arrester Rating, kV
15 (12)	12 through 15	10 through 15	9
25 (24)	22 through 29	20 through 26	18

Complete Fault Tamer Fuse Limiter for New Installations

Complete the following steps for a complete Fault Tamer Fuse Limiter order:

For a new installation:

STEP 1. Obtain the catalog number of the desired Fault Tamer Fuse Limiter from Table 1 on page 5, taking care to match the system voltage class rating to that of your system.

Catalog Number: ☐☐☐☐☐☐–☐

STEP 2. If high-visibility labeling is required, add the catalog number suffix "-L1" from Table 2 on page 5.

STEP 3. Select the mounting bracket (if desired) and connector arrangement (if desired) from Table 3 on page 5 and Table 4 on page 6, and add the indicated suffix letter(s) to the catalog number selected in Step 1. Fault Tamer Fuse Limiters ordered without connector suffix will be assembled with a ⅜–16-inch bolt and nut, no connector.

Suffixes: ☐–☐☐

STEP 4. Obtain the catalog number of the desired Fault Tamer fuse cartridge from Table 8 on page 8.

Catalog Number: ☐☐☐☐☐☐

Example: The catalog number for a new-installation Fault Tamer Fuse Limiter rated 15 kV nominal, 110 BIL, with a polymer insulator, including an S&C Extended Mounting Bracket, for crossarm, pole, or wall mounting of Fault Tamer Fuse Limiter mountings and parallel-groove connectors to accommodate No. 6 solid (13.3 mm^2) through No. 2 stranded (44.4 mm^2) copper or aluminum in one groove, No. 2 solid (33.6 mm^2) through 250 kc mil (168 mm^2) stranded copper or aluminum or 4/0 ACSR (161 mm^2) in the other groove (two-piece design), and with a 5-Ampere Fault Tamer fuse cartridge (TCC Number 450-8) is:

FT Catalog. Number: 9 8 0 2 1 – P – B – D 2

5 Ampere Cartridge: 5 2 6 0 0 5

Fault Tamer Fuse Limiter for Retrofit Into Existing Cutout Mountings

Note: Fault Tamer Fuse Limiters are designed to fit into all vintages of Type XS Fuse Cutout Mountings.

STEP 1. Obtain the catalog number of the desired Fault Tamer backup limiter from Table 6 on page 7, making sure to match the system-voltage class rating of the limiter to that of the system.

Catalog Number: ☐☐☐☐☐

STEP 2. From Table 6 on page 7, obtain the catalog number of the desired Fault Tamer fuse tube, making sure to match the system-voltage class rating of the fuse tube to that of the system.

Catalog Number: ☐☐☐☐☐

STEP 3. Obtain the catalog number of the desired Fault Tamer fuse cartridge from Table 8 on page 8.

Catalog Number: ☐☐☐☐☐☐

Note: Fault Tamer backup limiters and Fault Tamer fuse tubes can be purchased in a combined package, if desired. Refer to Table 7 on page 8. Obtain the catalog number of the desired combined package, making sure to match the system-voltage class rating of the package to that of the system.

Example: The catalog number for a Fault Tamer Fuse Limiter backup limiter, for retrofit into existing cutout mountings, rated 25 kV nominal, 150 kV BIL, compatible with fuse cartridge (TCC Number 450-8) as a singular component, is:

FT Backup Limiter Catalog Number: 9 8 2 5 2

The catalog number for a Fault Tamer Fuse Limiter fuse tube, for retrofit into existing cutout mountings, rated 25 kV nominal, 150 kV BIL, compatible with (TCC Number 450-8) fuse cartridges as a singular component, including a trunnion, is:

FT Fuse Tube Catalog Number: 9 8 5 2 2

Note: If this same backup limiter and fuse tube are ordered as a package, the catalog number for the combination, and with a 5-Ampere Fault Tamer fuse cartridge (TCC Number 450-8) is:

FT Backup Limiter and Fuse Tube Combined Package Catalog Number:

9 8 7 2 2

FT 5 Ampere Cartridge: 5 2 6 0 0 5

How to Order Handling Tools

Obtain the catalog number of the recommended handling tool(s) from Table 9 on page 8. Refer to Specification Bulletin 851-31.

☐☐☐☐

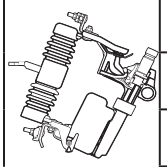
Example: The catalog number for a Talon Handling Tool fitting, to be attached to an existing S&C Universal Pole, is:

Catalog Number: 4 4 4 0

For a new S&C Universal Pole, 20 feet (610 cm) in length, the catalog number per Specification Bulletin 851-31 is:

Catalog Number: 4 4 7 9 R 2 – E

Table 1. Fault Tamer Fuse Limiter—For New Installations. Includes Cutout Mounting, Backup Limiter①, and Fuse Tube (Less Mounting Bracket, Connectors, and Fault Tamer Fuse Cartridge)

Illustration	Ratings								Leakage Distance to Ground Minimum, Inches (mm)		Catalog Number		Page Reference for Dimensional Information
	Voltage, kV						Amperes, RMS						
	System Class, ANSI (IEC)	System Maximum				BIL	Max	Interr., Sym.	Porcelain	Polymer	Porcelain Insulator	Polymer Insulator	
		60 Hz		50 Hz									
		Three-Phase②	Phase-to-Neutral	Three-Phase②	Phase-to-Neutral								
	15 (12)	15	8.7	15	8.7	110	20	12 000	8½ (216)	14¾ (375)	98021	98021-P	9
	15 (12)	15	8.7	15	8.7	125	20	12 000	11 (279)	—	98072●	—	9
	15 (12)	15	8.7	15	8.7	150	20	12 000	17 (432)	26½ (673)	98073■	98073-P▲	9
	25 (24)	29	16.8	26	15.1	125	20	12 000	11 (279)	—	98022	—	10
	25 (24)	29	16.8	26	15.1	150	20	12 000	17 (432)	26½ (673)	98052	98052-P	10
	25 (24)	29	16.8	26	15.1	150	20	12 000	26 (660)	37½ (953)	98053◆▼	98053-P□	11

① TCC No. 450-8.

② Also applies to phase-to-phase applications. Applications involving single-phase transformers connected phase to phase as well as three-phase applications require the use of a Fault Tamer Fuse Limiter in each lead.

● Includes extension adapter for use in mounting with porcelain insulator having 11-inch (279 mm) leakage distance to ground.

■ Includes extension adapter for use in mounting with porcelain insulator having 17-inch (432 mm) leakage distance to ground.

▲ Includes extension adapter for use in mounting with polymer insulator having a 26½-inch (673 mm) leakage distance to ground.

◆ Meets 170-kV BIL rating requirement of IEC Publication 60282-2.

▼ Includes an extension adapter for use in mounting with a porcelain insulator having a 26-inch (660 mm) leakage distance to ground.

□ Includes extension adapter for use in mounting with polymer insulator having 37½-inch (953 mm) leakage distance to ground.

Table 2. Options for Fault-Tamer Fuse Limiter

Item	Add Catalog Number Suffix
High-visibility label on insulator①	-L1

① Not available on polymer insulators.

Table 3. Mounting Brackets and Other Options①

Item	Add Catalog Number Suffix
S&C extended mounting bracket, for crossarm, pole, or wall mounting of Fault Tamer Fuse Limiter mountings	-B
NEMA Type B mounting bracket, for crossarm mounting of Fault Tamer Fuse Limiter mountings	-C
Harsh-environment design—all galvanized steel components and hardware replaced with stainless steel to provide enhanced corrosion resistance in a coastal or high-contamination environment	-S

① These options can also be added to the cutout mounting part numbers listed in Table 5 on page 6.

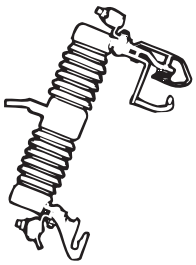
Table 4. Connector Options① ②

Item	Accommodating Conductors		Position	Add Catalog Number Suffix
	Quantity	Size and Material		
Parallel-groove connectors	Two conductors	No. 6 solid (13.3 mm²) through No. 2 stranded (44.4 mm²) copper or aluminum in one groove; No. 2 solid (33.6 mm²) through 250 kc mil (127 mm²) stranded copper or aluminum or 4/0 ACSR (107 mm2) in the other groove (one-piece design)	Standard orientation	-D
	Two conductors	No. 6 solid (13.3 mm²) through No. 2 stranded (44.4 mm²) copper or aluminum in one groove; No. 2 solid (33.6 mm²) through 250 kc mil (127 mm²) stranded copper or aluminum or 4/0 ACSR (107 mm²) in the other groove (two-piece design)	Standard orientation	-D2
Eye-bolt connectors	One conductor	No. 8 solid (8.36 mm²) through 250 kc mil (127 mm²) stranded copper or aluminum or 4/0 ACSR (107 mm²)	Standard orientation	-M

① Connectors for Fault Tamer Fuse Limiters cannot be sold separately.

② These options can also be added to the cutout mounting part numbers listed in Table 5 on page 6.

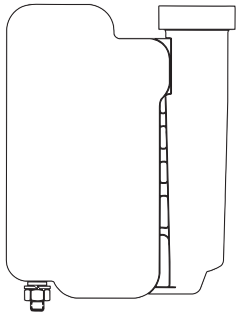
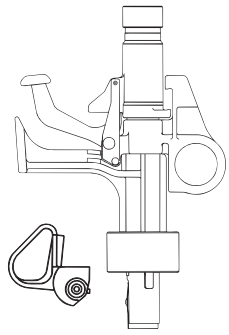
Table 5. Fault Tamer Cutout Mountings

Illustration	Item	For use with Type XS Fuse Cutouts and Fault Tamer Fuse Limiter Basic Catalog Numbers	Voltage, kV					Catalog Number
			System Class, ANSI (IEC)	System Maximum				
				60 Hz		50 Hz		
				Three Phase①	Phase to Neutral	Three Phase①	Phase to Neutral	
	Overhead—pole-top cutout, less fuse tube	89021, 89031, 89071, 89221, 98021	15 (12)	110	8½ (216)	14¾ (375)	89811R10	89811R10-P
		89022, 89032, 89072, 89222, 98022, 98072	15, 25 (12), (24)	125	11 (279)	–	89812R10	–
		89042, 89052, 89092, 98052, 98072, 98073	15, 25 (12), (24)	150	17 (432)	26½ (673)	89802R10	89802R10-P
		89053, 89253, 98053	15, 25, 38 (12), (24), (36)	150	26 (660)	37½ (953)	89823R10●	89823R10-P

① Specify mounting bracket, if desired, and connector option (required) by adding suffix letter(s) to catalog number. For example, 89811R10-BD. See Table 3 on page 5 and Table 4.

● Meets 170-kV BIL rating requirement of IEC Publication 60282-2.

Table 6. Fault Tamer Fuse Components

Illustration	Item	For use with Type XS Fuse Cutouts and Fault Tamer Fuse Limiter Basic Catalog Numbers	Voltage, kV					Catalog Number
			System Class, ANSI (IEC)	System Maximum				
				60 Hz		50 Hz		
				Three Phase①	Phase to Neutral	Three Phase①	Phase to Neutral	
	Backup limiter②	89021, 89031, 89071, 89221, 89022●, 89032●, 89042●, 89052●, 89072●, 89092●, 89222●, 98021, 98052●, 98072●, 98073●	15 (12)	15	8.7	15	8.7	98251
		89022, 89032, 89042, 89052, 89072, 89092, 89222, 89033■, 89223■, 98022, 98052	25 (24)	29	16.8	26	15.1	98252
		89053■, 89253■, 98053■	25 (24)	29	16.8	26	15.1	98253
	Fuse tube③	89021, 89031, 89071, 89221, 98021	15 (12)	15	8.7	15	8.7	98521
	Fuse tube including extension adapter③④	89022, 89032, 89042, 89052, 89072, 89092, 89222, 98052, 98072, 98073	15 (12)	15	8.7	15	8.7	98572
	Fuse tube③	89022, 89032, 89042, 89052, 89072, 89092, 89222, 98022, 98052	25 (24)	29	16.8	26	15.1	98522
	Fuse tube including extension adapter③⑤	89033, 89053, 89223, 89253, 98053	25 (24)	29	16.8	26	15.1	98553

① Also applies to phase-to-phase applications. Applications involving single-phase transformers connected phase to phase, as well as three-phase applications require the use of a Fault Tamer Fuse Limiter in each lead.

② TCC No. 450-8.

③ Includes trunnion.

④ Can only be used on 50-Hz systems rated 10 kV through 15 kV and on 60-Hz systems rated 12 kV through 15 kV.

⑤ Can only be used on 50-Hz systems rated 20 kV through 26 kV and on 60-Hz systems rated 22 kV through 29 kV.

● Requires use of fuse tube with extension adapter, catalog number 98572.

■ Requires use of fuse tube with extension adapter, catalog number 98553.

Table 7. Fault Tamer Backup Limiter and Fuse Tube Combined Packages

Basic Catalog Number	Item	For use with Type XS Fuse Cutouts and Fault Tamer Fuse Limiter Basic Catalog Numbers	Voltage, kV					Catalog Number
			System Class, ANSI (IEC)	System Maximum				
				60 Hz		50 Hz		
				Three Phase①	Phase to Neutral	Three Phase①	Phase to Neutral	
98251 and 98521	Backup limiter② and fuse tube③	89021, 89031, 89071, 89221, 98021	15 (12)	15	8.7	15	8.7	98721
98251 and 98572	Backup limiter② and fuse tube, including extension adapter③④	89022, 89032, 89042, 89052, 89072, 89092, 89222, 98052, 98072, 98073	15 (12)	15	8.7	15	8.7	98772
98252 and 98522	Backup limiter② and fuse tube③	89022, 89032, 89042, 89052, 89072, 89092, 89222, 98022, 98052	25 (24)	29	16.8	26	15.1	98722
98252 and 98553	Backup limiter② and fuse tube, including extension adapter③⑤	89033, 89223, 89053, 89253, 98053	25 (24)	29	16.8	26	15.1	98753

① Also applies to phase-to-phase applications. Applications involving single-phase transformers connected phase to phase, as well as three-phase applications require the use of a Fault Tamer Fuse Limiter in each lead.

② TCC No. 450-8.

③ Includes trunnion.

④ Can only be used on 50-Hz systems rated 10 kV through 15 kV and on 60-Hz systems rated 12 kV through 15 kV.

⑤ Can only be used on 50-Hz systems rated 20 kV through 26 kV and on 60-Hz systems rated 22 kV through 29 kV.

Table 8. Fault Tamer Fuse Limiter Cartridge (TCC Number 450-8)①

Illustration	Ratings, Amperes	Catalog Number
	3	526003
	5	526005
	7	526007
	10	526010
	15	526015
	20	526020

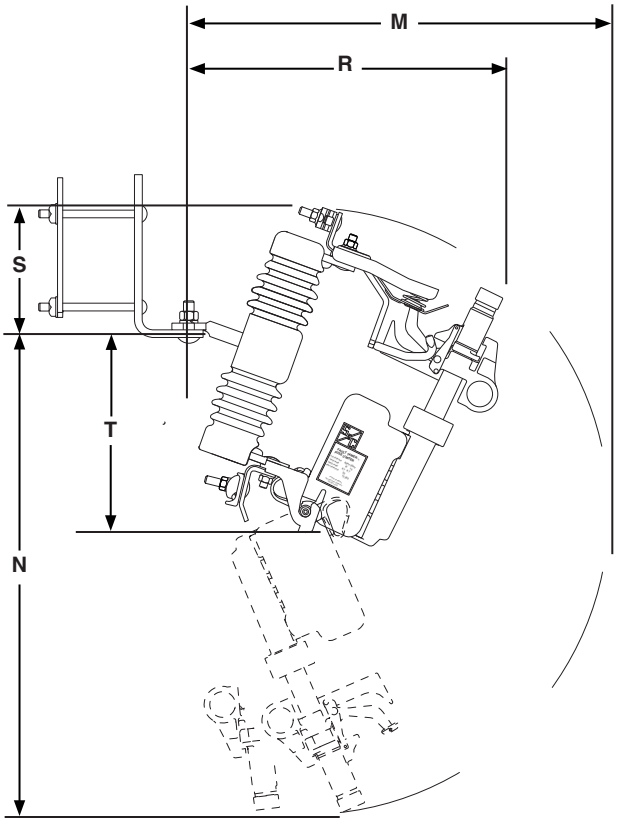
① Fault Tamer Fuse Limiter cartridges are sold only in single packs of five or as five combined packs totaling 25 cartridges. Minimum ordering quantity is five.

Table 9. Recommended Fuse Handling Tools—For Use With Fault Tamer Fuse Limiters

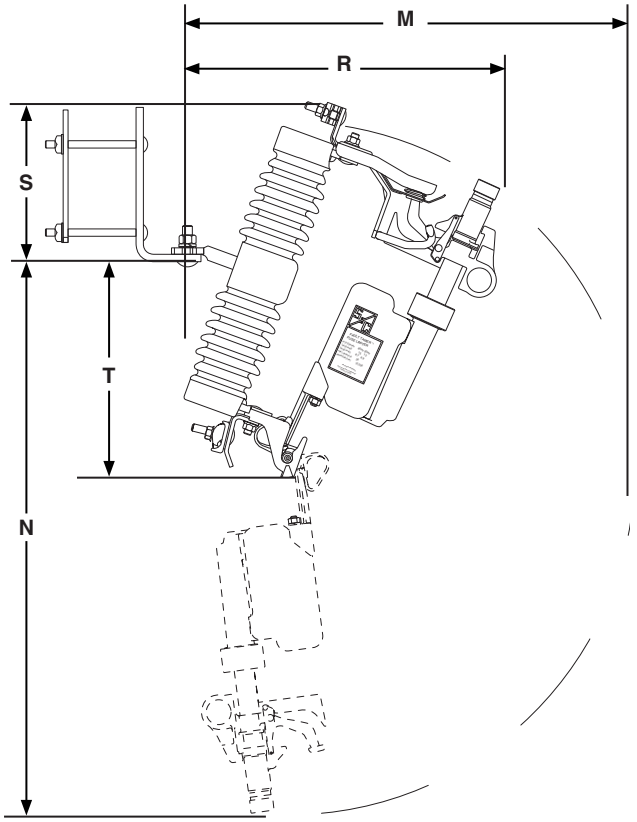
Item	Catalog Number
Talon™ Handling Tool, for use on overhead distribution systems to securely install and remove distribution fuses from their mountings	4440
Universal pole	●

● Select to match height of installation. Refer to Specification Bulletin 851-31.

Catalog Numbers 98021, 98072, 98073



Catalog number 98021



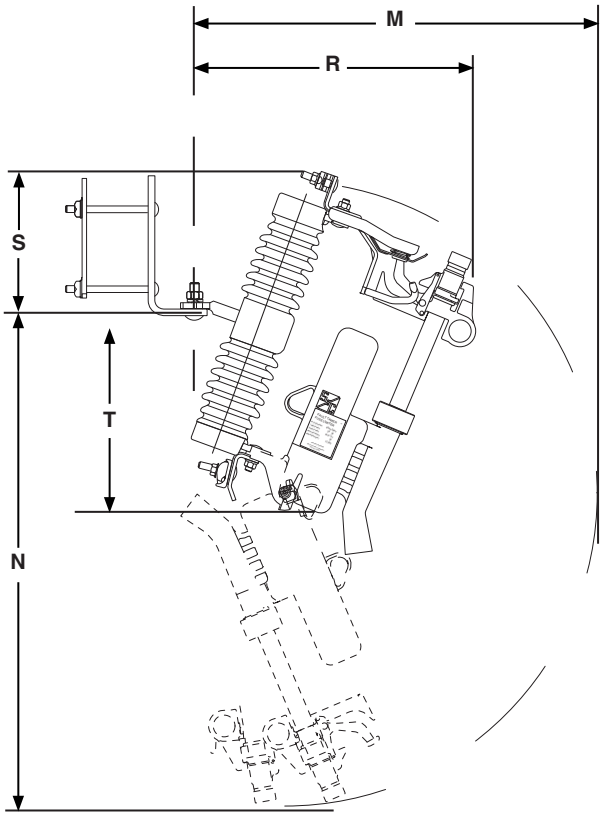
Catalog numbers 98072 and 98073

Rating				Catalog Number (Less Mounting Bracket and Connectors)①		Dimensions in Inches (mm)					Net Wt., Lbs. (kg)
System Voltage Class, kV, ANSI (IEC)	BIL, kV	Amperes		Porcelain Insulator	Polymer Insulator	M	N	R	S②	T	
		Max	Interr., Sym								
15 (12)	110	20	12 000	98021	—	20¼ (514)	23⅜ (594)	15⅛ (384)	6 (152)	9¾ (248)	15¼ (6.9)
15 (12)	110	20	12 000	—	98021-P	20¼ (514)	23⅜ (594)	15⅛ (384)	6 (152)	9¾ (248)	10¾ (4.9)
15 (12)	125	20	12 000	98072	—	23 (584)	28⅜ (721)	15⅜ (391)	7¾ (197)	11⅜ (289)	16¾ (7.6)
15 (12)	150	20	12 000	98073	98073-P	23 (584)	28⅜ (721)	15⅜ (391)	7¾ (197)	11⅜ (289)	16¾ (7.6)

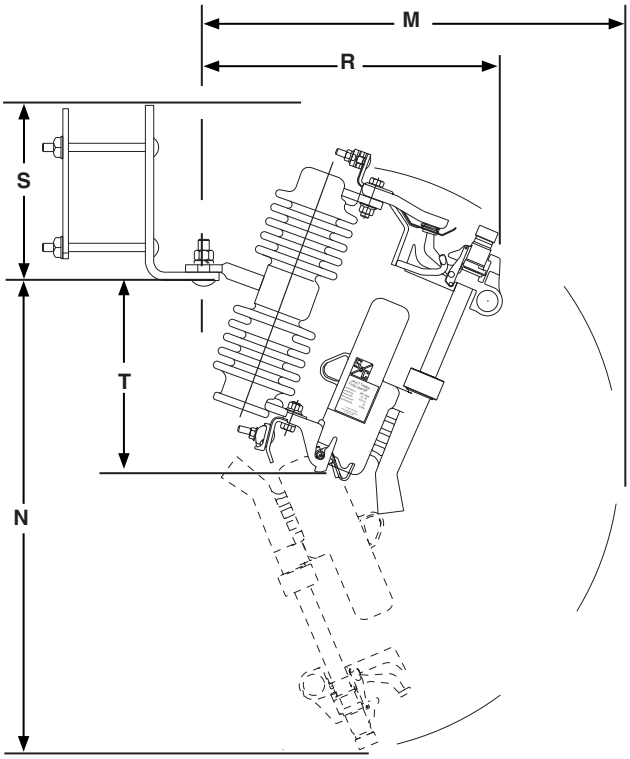
① Specify mounting bracket, if desired, and connector option (required) by adding suffix letter(s) to catalog number. For example, 98021-CD. See Table 3 on page 5.

② Dimension applies to a Fault Tamer Fuse Limiter furnished with optional parallel-groove connectors (catalog number suffix "-D"). If a Fault Tamer Fuse Limiter is furnished with optional eye-bolt connectors (catalog number suffix "-M"), the dimension is slightly smaller.

Catalog Numbers 98022 and 98052



Catalog number 98022



Catalog number 98052

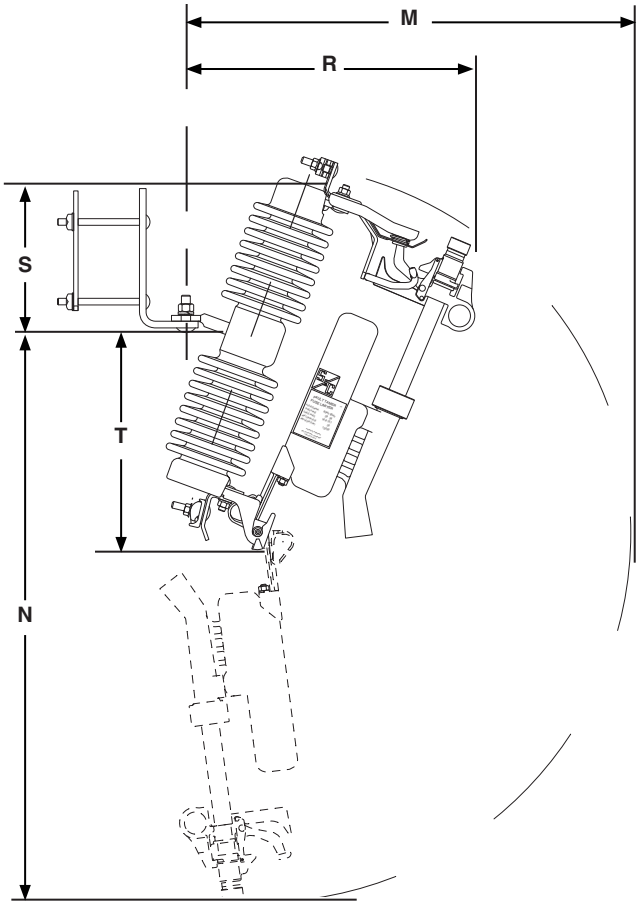
Rating				Catalog Number (Less Mounting Bracket and Connectors)①		Dimensions in Inches (mm)					Net Wt., Lbs. (kg)
System Voltage Class, kV, ANSI (IEC)	BIL, kV	Amperes		Porcelain Insulator	Polymer Insulator	M	N	R	S②	T	
		Max	Interr., Sym								
25 (24)	125	20	12 000	98022	—	22½ (572)	27¾ (705)	15½ (394)	7¾ (197)	11⅜ (289)	17½ (7.9)
25 (24)	150	20	12 000	98052	—	22½ (572)	27¾ (705)	15½ (394)	7¾ (197)	11⅜ (289)	22½ (10.2)
25 (24)	150	20	12 000	—	98052-P	22½ (572)	27¾ (705)	15½ (394)	7¾ (197)	11⅜ (289)	12 (5.4)

① Specify mounting bracket, if desired, and connector option (required) by adding suffix letter(s) to catalog number. For example, 98021-CD. See Table 3 on page 5.

② Dimension applies to a Fault Tamer Fuse Limiter furnished with optional parallel-groove connectors (catalog number suffix "-D"). If a Fault Tamer Fuse Limiter is furnished with optional eye-bolt connectors (catalog number suffix "-M"), the dimension is slightly smaller.

Catalog Number 98053

Dimensions in inches (mm)



Catalog number 98053

Rating				Catalog Number (Less Mounting Bracket and Connectors)①		Dimensions in Inches (mm)					Net Wt., Lbs. (kg)
System Voltage Class, kV, ANSI (IEC)	BIL, kV	Amperes		Porcelain Insulator	Polymer Insulator	M	N	R	S②	T	
		Max	Interr., Sym								
25 (24)	150●	20	12 000	98053	—	25 (635)	32⅞ (835)	16⅛ (410)	9¼ (235)	13 (330)	25 (11.3)
25 (24)	150	20	12 000	—	98053-P	25 (635)	32⅞ (835)	16⅛ (410)	9¼ (235)	13 (330)	14 (6.4)

① Specify mounting bracket, if desired, and connector option (required) by adding suffix letter(s) to catalog number. For example, 98021-CD. See Table 3 on page 5.

② Dimension applies to a Fault Tamer Fuse Limiter furnished with optional parallel-groove connectors (catalog number suffix "-D"). If a Fault Tamer Fuse Limiter is furnished with optional eye-bolt connectors (catalog number suffix "-M"), dimension is slightly smaller.

● Meets 170-kV BIL rating requirements of IEC Publication 282-2/60282-2.