

Identifying Fuses Accommodated and Adapters Required

S&C Holders for use in PMH and PME Pad-Mounted Gear will accommodate the single-barrel current-limiting fuses listed in Table 1 on page 2 and Table 2 on page 3 when the fuses are equipped with 5/8-inch (16-mm) diameter mounting studs at both ends. Depending on the length of the current-limiting fuse to be used, an adapter may be required to fit the fuse in the holder.

The adapter, when required, is furnished with the S&C Holder and is signified by a catalog number suffix. Suffix “-A1” indicates a latch-end adapter, suffix “-A2” indicates a hinge-end adapter, and suffix “-A3” indicates both latch-end and hinge-end adapters. When the holder catalog number does not include a suffix, no adapter is required or provided.

Recommended Voltage Ratings

In general, current-limiting fuses should have a maximum voltage rating equal to, but not greater than, 140% of the system line-to-line voltage because, for most applications, the fuses can be exposed to full system line-to-line voltage in clearing faults. Although there may be economic or space-saving incentives for using current-limiting fuses with voltage ratings appropriate for system line-to-ground voltage (i.e., fuses with a voltage rating lower than line-to-line voltage but greater than or equal to maximum system line-to-ground voltage), S&C can only recommend such use in the following applications:

- Protection of single-phase transformers serving single-phase loads
- Protection of three-phase lateral circuits fed by single-conductor shielded cable (provided each transformer on the lateral is individually fused so the current-limiting fuse serving the lateral will not be required to clear secondary faults)
- Protection of single-phase lateral circuits fed by single-conductor shielded cable where the load is line-to-ground connected



S&C PMH and PME Pad-Mount Gear

Table 1. Current-Limiting Fuses Accommodated in Fault Fiter Fuse Mountings in PMH Pad-Mounted Gear

For use in PMH Models with Nominal Voltage Rating, kV	Current-Limiting Fuse ^①				Requires S&C Holder ^③ Catalog Number ^④
	Manufacturer	Type	Rating ^②		
			Max Voltage, kV	Max current, Amperes, RMS	
14.4	Cooper (Eaton)	Kearney™ B	8.3	30–112	3142-A1
			8.3	6–30	3142-A3
		Kearney Q	8.3	40–100	3142-A1
			15.5	6–30	3142-A2
			15.5	40–50	3142-A1
			15.5	65–100	3142
			NX®	8.3	1.5C–40C
		8.3		50C–100C	3142-A1
		15.5		1.5C–40C	3142-A2
		15.5		50C–100C	3142
		ELX	8.3	3–50	3142-A3
			15.5	3–50	3142-A2
		X Limiter™	8.3	12–40	3142-A3
			8.3	50–140	3142-A1
			15.5	10–40	3142-A2
	15.5		50–125	3142	
	Eaton	CX	8.3	3.5C–40C	3142-A3
			15.5	4C–40C	3142-A2
25	Cooper (Eaton)	Kearney B	15.5	30–100	3143R1-A1
			22	25–65	3143R1-A1
		Kearney Q	15.5	6–30	3143R1-A3
			15.5	40–100	3143R1-A1
		NX	15.5	1.5C–40C	3143R1-A3
			15.5	50C–100C	3143R1-A1
			23	6C–40C	3143R1-A3
		ELX	15.5	3–50	3143R1-A3
			23	3–40	3143R1-A3
		X Limiter	15.5	10–40	3143R1-A3
			15.5	50–125	3143R1-A1
			23	10–40	3143R1-A3
	Eaton	CX	15.5	4C–40C	3143R1-A3
		CXN	15.5	45C–100C	3143R1-A1

① The single-barrel current-limiting fuses listed in this table are to be purchased from the appropriate current-limiting fuse manufacturer.

② The maximum voltage and maximum ampere ratings listed in this table apply when the corresponding current-limiting fuse is used. Consult the appropriate current-limiting fuse manufacturer for complete fuse ratings.

③ S&C Holders for use in 14.4-kV PMH models are rated 14.4 kV nominal, 17 kV maximum, and 200 amperes maximum. S&C Holders for use in 25-kV PMH models are rated 25 kV nominal, 29 kV maximum, and 200 amperes maximum.

④ Includes adapters when required.

Table 2. Current-Limiting Fuses Accommodated in Fault Fiter Fuse Mountings in PME Pad-Mounted Gear

For use in PME Models with Nominal Voltage Rating, kV	Current-Limiting Fuse ^①				Requires S&C Holder ^③ Catalog Number ^④
	Manufacturer	Type	Rating ^②		
			Max Voltage, kV	Max current, Amperes, RMS	
14.4	Cooper (Eaton) ^⑤	Kearney B	8.3	30–112	3122-A1
		Kearney Q	8.3	6–100	
			15.5	6–100	
		NX	8.3	1.5C–100C	
			15.5	1.5C–100C	
		ELX	8.3	3–50	
	15.5		3–50		
	Eaton	CX	8.3	3.5C–40C	3122
			15.5	4C–40C	
		CXN	8.3	60C–250C	
15.5			45C–100C		
25	Cooper (Eaton) ^⑤	Kearney B	15.5	30–100	3123-A1
			22	25–65	
		Kearney Q	15.5	6–100	
			NX	15.5	
		23		6C–40C	
		ELX	15.5	3–50	
	23		3–40		
	Eaton	X Limiter	15.5	10–125	
			23	10–40	
		CX	15.5	4C–40C	
CXN			15.5	45C–100C	

① The single-barrel current-limiting fuses listed in this table are to be purchased from the appropriate current-limiting fuse manufacturer.
 ② The maximum voltage and maximum ampere ratings listed in this table apply when the corresponding current-limiting fuse is used. Consult the appropriate current-limiting fuse manufacturer for complete fuse ratings.
 ③ S&C Holders for use in 14.4-kV PME Pad-Mounted Gear models are rated 14.4 kV nominal, 17 kV maximum, and 200 amperes maximum. S&C Holders for use in 25-kV PME Pad-Mounted Gear models are rated 25 kV nominal, 29 kV maximum, and 200 amperes maximum.

④ Includes adapters when required.
 ⑤ All 15.5-kV fuse types listed, except ELX Current-Limiting Fuses, when used in 14.4-kV Pad-Mounted Gear Models PME-4, PME-5, PME-6, PME-9, PME-11, or PME-12 furnished with Fault Fiter fuse mountings, permit the gear to achieve a 25-kA short-circuit rating. Separable connectors and cables installed in the switch compartments must be rated 25,000 amperes, RMS, symmetrical. In addition, the gear cannot be furnished with optional 200-ampere bushing wells in lieu of 600-ampere bushings at the switch terminals, catalog number suffix “-M4.”