

S&C Power Fuses
Types SM, SML, and SMD-20
Indoor and Outdoor Distribution
(4.16 kv through 34.5 kv)

Supplement to Selection Guide for Transformer-Primary
Fuses in Medium-Voltage Industrial, Commercial, and
Institutional Power Systems:
Selection Tables for Additional Voltage Ratings

GENERAL

The selection tables presented in this data bulletin supplement the selection tables contained in S&C Data Bulletin 240-110, "Selection Guide for Transformer-Primary Fuses in Medium-Voltage Industrial, Commercial, and Institutional Power Systems." The procedures described in S&C Data Bulletin 240-110 are fully applicable for use with these tables. Before proceeding with the primary-fuse selection process, you should review the text portion of S&C Data Bulletin 240-110, paying particular attention to the examples beginning on

page 37, which illustrate the steps used in selecting a transformer-primary fuse. Specific instructions for use of the fuse selection tables presented in this data bulletin can be found on page 76 (foldout) of S&C Data Bulletin 240-110.

To locate the appropriate selection table, based on the secondary-side overcurrent protective device, refer to Table I, below.

TABLE I—Index to Selection Tables

Transformer Rating (self cooled)			Secondary-Side Overcurrent Protective Device			
Kv	Kva, Three-Phase	Impedance	Low-Voltage Molded-Case or Power Circuit Breaker		Low-Voltage Current-Limiting Fuse	
			Table Number	Page Number	Table Number	Page Number
4.8	300 thru 750	4%	II	2-3	IV	6-9
	750	5.75%				
	1000	4%				
	1000	5.75%				
	1000	8%				
	1500	4%				
8.32	1500 thru 3750	5.75%				
	300 thru 750	4%	III	4-5	V	10-13
	750	5.75%				
	1000	4%				
	1000	5.75%				
	1000	8%				
	1500	4%				
	1500 thru 3750	5.75%				



S&C Power Fuses — Types SM, SML, and SMD-20

Indoor and Outdoor Distribution (4.16 kv through 34.5 kv)

THE FUSE SELECTION TABLES

TABLE II—Transformers Rated 4.8 Kv Three-Phase—with Low-Voltage Secondary Circuit Breakers

Transformer Data (Self Cooled)					Low-Voltage Secondary Circuit Breaker— Upper Limit for Short-Time or Instantaneous Pickup Current, Percent of Transformer Secondary Full-Load Current								S&C Primary Fuse									
Secondary Circuit Breaker Clearing Time for Short-Time Delay or Instantaneous Setting					Up thru 0.05 Sec. ("Instantaneous" Setting)		0.06 Sec. thru 0.20 Sec. ("Minimum" Setting)		0.21 Sec. thru 0.35 Sec. ("Intermediate" Setting)		0.36 Sec. thru 0.50 Sec. ("Maximum" Setting)		Transformer Protection Index, Percent of Transformer Full-Load Current ①		Loading Capability, Percent of Transformer Primary Full-Load Current	Rating, Amperes	Time-Current Character- istic					
Kva, Three- Phase	Impedance	Secondary Volts	Full-Load Current, Amperes	Feeder	Main	Feeder	Main	Feeder	Main	Feeder	Main	Δ-Δ X X	Δ-X ②	Speed			TCC No.					
300	4%	208, 240, 480, or 600	36.1	830 at	240	250							300	320	190	50E	Std.	153				
				208v,	250	250																
				720 at	310	325									310	320	190	50E	Slow	119		
				240v,	310	325	310	325							410	430	245	65E	Std.	153		
				360v,	385	400	—	—							420	440	245	65E	Slow	119		
				480v, or	385	400	385	400							520	590	305	80E	Std.	153		
				290 at	430	500	480	500							540	680	305	80E	Slow	119		
				600v	480	500	480	500	480	500	480	500			670	760	325	100E	Std.	153		
					480	500	480	500							680	—	325	100E	Slow	119		
500	4%	208, 240, 480, or 600	60.1	1390 at	230	240							290	300	180	80E	Std.	153				
				208v,	230	240																
				1200 at	265	300	285	300							300	320	180	90E	Slow	119		
				240v,	335	415	—	—							360	380	195	100E	Std.	153		
				360 at	415	415	415	415							380	400	195	100E	Slow	119		
				480v, or	460	495	460	495	495	495	495	495			530	570	225	125E	Std.	153		
				460 at	495	495	495	495	495	495	495	495			540	680	225	125E	Slow	119		
				600v	540	580	540	580	540	580	580	580	580			680	730	260	150E	Std.	153	
					540	580	540	580	540	580	580	580	580	580			700	860	260	150E	Slow	119
					580	580	580	580	580	580	580	580	580	580	770	1420	295	175E	Std.	153		
											830	—	295	175E	Slow	119						
750	4%	208, 240, 480, or 600	90.2	2080 at	255	275							340	360	150	125E	Std.	153				
				208v,	275	275																
				1800 at	305	330									350	370	150	125E	Slow	119		
				240v,	330	330	330	330							420	450	175	150E	Std.	153		
				900 at	360	365	—	—							430	470	175	150E	Slow	119		
				480v, or	385	385	385	385							480	520	200	175E	Std.	153		
				720 at	410	440	410	440	440	440	440	440			500	570	200	175E	Slow	119		
				600v	440	440	440	440	440	440	440	440	440			570	610	220	200E	Std.	153	
					440	440	440	440	440	440	440	440	440	440			580	760	220	200E	Slow	119
					515	550	515	550	550	550	550	550	550	550			730	820	275	250E	Std.	153
		550	550	550	550	550	550	550	550	550	550	800	—	275	250E	Slow	119					
	5.75%	208, 240, 480, or 600	90.2	2080 at	190	200							240	250	130	100E	Std.	153				
				208v,	190	200																
				1800 at	255	275									240	250	130	100E	Slow	119		
				240v,	275	275	275	275							340	360	150	125E	Std.	153		
				900 at	305	330	305	330							350	370	150	125E	Slow	119		
				480v, or	330	330	330	330	330	330					420	450	175	150E	Std.	153		
				720 at	360	365	360	365	—	—					430	470	175	150E	Slow	119		
				600v	385	385	385	385	385	385	385	385	385	385	480	520	200	175E	Std.	153		
					410	440	410	440	410	440	410	440	—	—	500	570	200	175E	Slow	119		
				440	440	440	440	440	440	440	440	440	440	570	610	220	200E	Std.	153			
	515	550	515	550	515	550	515	550	515	550	580	760	220	200E	Slow	119						
	550	550	550	550	550	550	550	550	550	550	730	820	275	250E	Std.	153						
											800	—	275	250E	Slow	119						
4%	208, 240, 480, or 600	120.3	2780 at	230	245							300	320	130	150E	Std.	153					
			208v,	245	245																	
			2410 at	270	290									310	330	130	150E	Slow	119			
			240v,	290	290									350	370	150	175E	Std.	153			
			1200 at	305	330									360	380	150	175E	Slow	119			
			480v, or	330	330	330	330							410	430	165	200E	Std.	153			
			960 at	385	415	—	—							420	450	165	200E	Slow	119			
			600v	415	415	415	415	415	415	415	415	415		520	560	205	250E	Std.	153			
				460	495	460	495	—	—					530	670	205	250E	Slow	119			
				495	495	495	495	495	495	495	495	495	495	620	700	245	300E	Std.	153			
											720	—	245	300E	Slow	119						
5.75%	208, 240, 480, or 600	120.3	2780 at	190	205							250	260	110	125E	Std.	153					
			208v,	205	205																	
			2410 at	230	245	245	245							250	260	110	125E	Slow	119			
			240v,	245	245	—	—							300	320	130	150E	Std.	153			
			1200 at	270	290	—	—							310	330	130	150E	Slow	119			
			480v, or	290	290	290	290							350	370	150	175E	Std.	153			
			960 at	305	330	305	330							360	380	150	175E	Slow	119			
			600v	330	330	330	330	330	330	330	330	330		410	430	165	200E	Std.	153			
				365	415	365	415	—	—					420	450	165	200E	Slow	119			
				415	415	415	415	415	415	415	415	415	415	530	670	205	250E	Std.	153			
	460	495	460	495	460	495	460	495	460	495	620	700	245	300E	Std.	153						
	495	495	495	495	495	495	495	495	495	495	720	—	245	300E	Slow	119						

Supplement to Selection Guide for Transformer-Primary Fuses in Medium-Voltage Industrial, Commercial, and Institutional Power Systems: Selection Tables for Additional Voltage Ratings

THE FUSE SELECTION TABLES

TABLE II—Transformers Rated 4.8 Kv Three-Phase—with Low-Voltage Secondary Circuit Breakers—Continued

Transformer Data (Self Cooled)					Low-Voltage Secondary Circuit Breaker — Upper Limit for Short-Time or Instantaneous Pickup Current, Percent of Transformer Secondary Full-Load Current								S&C Primary Fuse						
Secondary Circuit Breaker Clearing Time for Short-Time Delay or Instantaneous Setting					Up thru 0.05 Sec. ("Instantaneous" Setting)		0.06 Sec. thru 0.20 Sec. ("Minimum" Setting)		0.21 Sec. thru 0.35 Sec. ("Intermediate" Setting)		0.36 Sec. thru 0.50 Sec. ("Maximum" Setting) §		Transformer Protection Index, Percent of Transformer Full-Load Current ①		Loading Capability, Percent of Transformer Primary Full-Load Current	Rating, Amperes	Time-Current Characteristic		
Kva, Three- Phase	Impedance	Secondary Voltage	Full-Load Current, Amperes		Feeder	Main	Feeder	Main	Feeder	Main	Feeder	Main	Δ Δ Δ Δ Δ Δ ②	Δ Δ Δ ②			Speed	TCC No.	
			Primary	Sec- ondary															
1000	3%	208, 240, 480, or 600	120.3	2780 at 208v, 2410 at 240v, 1200 at 480v, or 960 at 600v	190	205								250	260	110	125E	Std.	153
					205	205	205	205					250	260	110	125E	Slow	119	
					230	245	230	245					300	320	130	150E	Std.	153	
					245	245	245	245	245	245			310	330	130	150E	Slow	119	
					270	290	270	290	—	—			350	370	150	175E	Std.	153	
					290	290	290	290	290	290	290	290	360	380	150	175E	Slow	119	
					305	330	305	330	305	330	—	—	410	430	165	200E	Std.	153	
					330	330	330	330	330	330	330	330	420	450	165	200E	Slow	119	
					385	415	385	415	385	415	385	415	520	560	205	250E	Std.	153	
					415	415	415	415	415	415	415	415	530	570	205	250E	Slow	119	
					460	495	460	495	460	495	460	495	620	700	245	300E	Std.	153	
					495	495	495	495	495	495	495	495	720	—	245	300E	Slow	119	
1500	4%	208, 240, 480, or 600	180.4	4160 at 208v, 3610 at 240v, 1800 at 480v, or 1440 at 600v	220	220								270	280	110	200E	Slow	119
					255	275							330	350	135	250E	Std.	153	
					275	275							340	350	135	250E	Slow	119	
					305	330							410	420	165	300E	Std.	153	
					330	330	330	330					420	480	165	300E	Slow	119	
					410	440	410	440					560	600	220	400E	Std.	153	
					440	440	440	440	440	440			650	840	220	400E	Slow	119	
					460	495	460	495	—	—			740	860	245	2-250E	Std.	153	
					495	495	495	495	495	495	495	495	800	—	245	2-250E	Slow	119	
					555	595	555	595	555	595	—	—	910	1250	295	2-300E	Std.	153	
					595	595	595	595	595	595	595	595	1380	—	295	2-300E	Slow	119	
	5.75%	208, 240, 480, or 600	180.4	4160 at 208v, 3610 at 240v, 1800 at 480v, or 1440 at 600v	205	220								260	270	110	200E	Std.	153
					220	220							270	280	110	200E	Slow	119	
					255	275							330	350	135	250E	Std.	153	
					275	275	275	275					340	350	135	250E	Slow	119	
					305	330	305	330					410	420	165	300E	Std.	153	
					330	330	330	330	330	330	330	330	420	490	165	300E	Slow	119	
					410	440	410	440	410	440	—	—	560	600	220	400E	Std.	153	
					440	440	440	440	440	440	440	440	650	840	220	400E	Slow	119	
					460	495	460	495	460	495	460	495	740	860	245	2-250E	Std.	153	
					495	495	495	495	495	495	495	495	800	—	245	2-250E	Slow	119	
					555	595	555	595	555	595	555	595	910	—	295	2-300E	Std.	153	
					595	595	595	595	595	595	595	595	1380	—	295	2-300E	Slow	119	
2000	5.75%	480 or 600	240.6	2410 at 480v or 1930 at 600v	190	205								250	260	100	250E	Std.	153
					205	205							250	260	100	250E	Slow	119	
					230	245							300	300	125	300E	Std.	153	
					245	245	245	245					300	320	125	300E	Slow	119	
					305	330	305	330					410	420	165	400E	Std.	153	
					330	330	330	330	330	330			450	510	165	400E	Slow	119	
					345	370	345	370	—	—			520	560	185	2-250E	Std.	153	
					370	370	370	370	370	370	370	370	530	660	185	2-250E	Slow	119	
					415	445	415	445	415	445	415	445	640	710	220	2-300E	Std.	153	
					445	445	445	445	445	445	445	445	740	—	220	2-300E	Slow	119	
					555	595	555	595	555	595	555	595	860	—	295	2-400E	Std.	153	
					595	595	595	595	595	595	595	595	1310	—	295	2-400E	Slow	119	
2500	5.75%	480 or 600	300.7	3010 at 480v or 2410 at 600v	185	195								240	240	100	300E	Std.	153
					195	195	195	195					240	240	100	300E	Slow	119	
					245	265	—	—					320	330	130	400E	Std.	153	
					265	265	265	265					340	380	130	400E	Slow	119	
					275	295	275	295					400	430	150	2-250E	Std.	153	
					295	295	295	295	295	295			410	450	150	2-250E	Slow	119	
					330	355	330	355	330	355			490	520	180	2-300E	Std.	153	
					355	355	355	355	355	355	355	355	530	710	180	2-300E	Slow	119	
					445	475	445	475	445	475	445	475	660	740	235	2-400E	Std.	153	
					475	475	475	475	475	475	475	475	840	—	235	2-400E	Slow	119	
3750	5.75%	480 or 600	451.1	4510 at 480v or 3610 at 600v	195	195	195	195						260	270	100	2-250E	Slow	119
					220	235	—	—					270	330	120	2-300E	Std.	153	
					235	235	235	235					320	350	120	2-300E	Slow	119	
					295	315	295	315	315	315	315	315	330	440	160	2-400E	Std.	153	
					315	315	315	315					480	560	160	2-400E	Slow	119	

① Refer to S&C Data Bulletin 240-110, page 35.

② For delta grounded-wye connected transformers with the neutral grounded through an impedance, the values in the "delta delta" column apply.

Note: Refer to "How to Use the Fuse Selection Tables" on page 76 (foldout) of S&C Data Bulletin 240-110.



S&C ELECTRIC COMPANY • Chicago
S&C ELECTRIC CANADA LTD • Rexdale

DATA BULLETIN 240-111

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S&C Power Fuses — Types SM, SML, and SMD-20

Indoor and Outdoor Distribution (4.16 kv through 34.5 kv)

THE FUSE SELECTION TABLES

TABLE III—Transformers Rated 8.32 Kv Three-Phase—with Low-Voltage Secondary Circuit Breakers

Transformer Data (Self Cooled)					Low-Voltage Secondary Circuit Breaker— Upper Limit for Short-Time or Instantaneous Pickup Current, Percent of Transformer Secondary Full-Load Current								S&C Primary Fuse								
Secondary Circuit Breaker Clearing Time for Short-Time Delay or Instantaneous Setting					Up thru 0.05 Sec. ("Instantaneous" Setting)		0.06 Sec. thru 0.20 Sec. ("Minimum" Setting)		0.21 Sec. thru 0.35 Sec. ("Intermediate" Setting)		0.36 Sec. thru 0.50 Sec. ("Maximum" Setting)		Transformer Protection Index, Percent of Transformer Full-Load Current ①		Loading Capability, Percent of Transformer Primary Full-Load Current	Rating, Amperes	Time-Current Character- istic				
Kvs, Three- Phase	Impedance	Secondary Voltages	Primary	Sec- ondary	Feeder	Main	Feeder	Main	Feeder	Main	Feeder	Main	Δ Δ Δ Δ ②	Δ Δ Δ Δ ③			Speed	TCC No.			
300	4%	208, 240, 480, or 600	20.8	830 at	205	215								260	260	155	25E	Std.	153		
				208v.	215	215									260	260	175	25E	Slow	119	
				720 at	250	260									310	320	215	30E	Std.	153	
				240v.	260	260									310	320	215	30E	Slow	119	
				360 at	330	345									420	440	270	40E	Std.	153	
				480v. or	345	345	345	345							440	510	270	40E	Slow	119	
				290 at	415	435	415	435							550	610	335	50E	Std.	153	
				600v	435	435	435	435	435	435					580	950	335	50E	Slow	119	
500	4%	208, 240, 480, or 600	34.7	1390 at	250	260								310	330	200	50E	Std.	153		
				208v.	260	260									320	330	200	50E	Slow	119	
				1200 at	325	340									420	450	255	65E	Std.	153	
				240v.	325	340	325	340							430	460	255	65E	Slow	119	
				600 at	400	415	400	415							530	620	315	80E	Std.	153	
				480v. or	400	415	400	415	400	415					560	740	315	80E	Slow	119	
				480 at	500	520	500	520	—	—					700	800	340	100E	Std.	153	
				600v	500	520	500	520	500	520	500	520			710	—	340	100E	Slow	119	
750	4%	208, 240, 480, or 600	52.0	2080 at	215	225								270	280	170	65E	Std.	153		
				208v.	215	225									270	280	170	65E	Slow	119	
				1800 at	265	275									330	360	210	80E	Std.	153	
				240v.	265	275									360	370	210	80E	Slow	119	
				900 at	330	345									420	470	225	100E	Std.	153	
				480v. or	330	345	330	345							450	480	225	100E	Slow	119	
				720 at	445	480	445	480							610	680	260	125E	Std.	153	
				600v	480	480	480	480	480	480	480	480			650	920	260	125E	Slow	119	
					535	575	535	575	535	575					790	1030	300	150E	Std.	153	
750	5.75%	208, 240, 480, or 600	52.0	2080 at	215	225								270	280	170	65E	Std.	153		
				208v.	215	225									270	280	170	65E	Slow	119	
				1800 at	265	275									330	360	210	80E	Std.	153	
				240v.	265	275	265	275							360	370	210	80E	Slow	119	
				900 at	330	345	330	345							420	470	225	100E	Std.	153	
				480v. or	330	345	330	345	330	345	330	345			450	480	225	100E	Slow	119	
				720 at	445	480	445	480	445	480	—	—			610	680	260	125E	Std.	153	
				600v	480	480	480	480	480	480	480	480			650	920	260	125E	Slow	119	
					535	575	535	575	535	575	535	575			790	—	300	150E	Std.	153	
1000	4%	208, 240, 480, or 600	69.4	2760 at	250	260								310	320	170	100E	Std.	153		
				208v.	250	260									320	330	170	100E	Slow	119	
				2410 at	335	360									440	460	195	125E	Std.	153	
				240v.	360	360	260	360							450	520	195	125E	Slow	119	
				1200 at	400	430	400	430							560	600	225	150E	Std.	153	
				480v. or	430	430	430	430	430	430					570	690	225	150E	Slow	119	
				960 at	465	500	465	500	—	—					640	780	255	175E	Std.	153	
				600v	500	500	500	500	500	500	500	500			660	640	255	175E	Slow	119	
1000	5.75%	208, 240, 480, or 600	69.4	2760 at	200	205								250	250	145	80E	Std.	153		
				208v.	200	205									250	270	155	80E	Slow	119	
				2410 at	250	260									310	320	170	100E	Std.	153	
				240v.	250	260	250	260							320	330	170	100E	Slow	119	
				1200 at	335	360	335	360							440	460	195	125E	Std.	153	
				480v. or	360	360	360	360							450	520	195	125E	Slow	119	
				960 at	400	430	400	430	400	430					560	600	225	150E	Std.	153	
				600v	430	430	430	430	430	430	430	430			570	690	225	150E	Slow	119	
					465	500	465	500	465	500	—	—			640	780	255	175E	Std.	153	
					500	500	500	500	500	500	500	500			660	—	255	175E	Slow	119	
1000	8%	208, 240, 480, or 600	69.4	2760 at	200	205								250	250	145	80E	Std.	153		
				208v.	200	205									250	270	155	80E	Slow	119	
				2410 at	250	260									310	320	170	100E	Std.	153	
				240v.	250	260	250	260							320	330	170	100E	Slow	119	
				1200 at	335	360	335	360	335	360	335	360			440	460	195	125E	Std.	153	
				480v. or	360	360	360	360	360	360	360	360			450	520	195	125E	Slow	119	
				960 at	400	430	400	430	400	430	400	430			560	600	225	150E	Std.	153	
				600v	430	430	430	430	430	430	430	430			570	—	225	150E	Slow	119	
					465	500	465	500	465	500	465	500			640	780	255	175E	Std.	153	
					500	500	500	500	500	500	500	500			660	—	255	175E	Slow	119	

① Refer to S&C Data Bulletin 240-110, page 35.

② For delta grounded-wye connected transformers with the neutral grounded through an impedance, the values in the "delta delta" column apply.

TABLE CONTINUED →

Note: Refer to "How to Use the Fuse Selection Tables" on page 76 (foldout) of S&C Data Bulletin 240-110.

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THE FUSE SELECTION TABLES

TABLE III—Transformers Rated 8.32 Kv Three-Phase—with Low-Voltage Secondary Circuit Breakers—Continued

Transformer Data (Self Cooled)					Low-Voltage Secondary Circuit Breaker— Upper Limit for Short-Time or Instantaneous Pickup Current, Percent of Transformer Secondary Full-Load Current										S&C Primary Fuse						
Secondary Circuit Breaker Clearing Time for Short-Time Delay or Instantaneous Setting					Up thru 0.05 Sec. ("Instantaneous" Setting)		0.05 Sec. thru 0.20 Sec. ("Minimum" Setting)		0.21 Sec. thru 0.35 Sec. ("Intermediate" Setting)		0.36 Sec. thru 0.50 Sec. ("Maximum" Setting)		Transformer Protection Index, Percent of Transformer Full-Load Current ①		Loading Capability, Percent of Transformer Primary Full-Load Current	Rating, Amperes	Time-Current Character- istic				
Kva, Three- Phase	Impedance	Secondary Voltages	Full-Load Current, Amperes		Feeder	Main	Feeder	Main	Feeder	Main	Feeder	Main	Δ Δ Δ X X X ②	Speed			TCC No.				
			Primary	Sec- ondary																	
1500	4%	208, 240, 480, or 600	104.1		220	240								290	300	130	125E	Std.	153		
					240	240									290	310	130	125E	Slow	119	
					265	285										350	370	150	150E	Std.	153
					285	285										360	390	150	150E	Slow	119
					310	335										410	430	170	175E	Std.	153
					335	335	335	335								420	450	170	175E	Slow	119
					355	380										470	500	190	200E	Std.	153
					380	380	380	380	380	380						480	570	190	200E	Slow	119
					445	480	445	480								600	650	240	250E	Std.	153
					480	480	480	480	480	480	480	480				640	870	240	250E	Slow	119
					535	575	535	575	535	575	535	575				720	1030	285	300E	Std.	153
					575	575	575	575	575	575	575	575	575	575		950	—	285	300E	Slow	119
	5.75%	208, 240, 480, or 600	104.1		220	240									290	300	130	125E	Std.	153	
					240	240	240	240							290	310	130	125E	Slow	119	
					265	285	—	—								350	370	150	150E	Std.	153
					285	285	285	285								360	390	150	150E	Slow	119
					310	335	310	335			335	335				410	430	170	175E	Std.	153
					335	335	335	335	335	335						420	450	170	175E	Slow	119
					355	380	355	380			—	—				470	500	190	200E	Std.	153
					380	380	380	380	380	380	380	380	380			480	570	190	200E	Slow	119
					445	480	445	480	445	480	445	480	—	—		600	650	240	250E	Std.	153
					480	480	480	480	480	480	480	480	480	480		640	—	240	250E	Slow	119
					535	575	535	575	535	575	535	575	535	575		720	1030	285	300E	Std.	153
					575	575	575	575	575	575	575	575	575	575		950	—	285	300E	Slow	119
2000	5.75%	480 or 600	138.8		200	215								280	270	110	150E	Std.	153		
					215	215									260	270	110	150E	Slow	119	
					230	250										300	310	130	175E	Std.	153
					250	250	250	250								310	320	130	175E	Slow	119
					265	285	—	—								340	360	140	200E	Std.	153
					285	285	285	285								350	370	140	200E	Slow	119
					335	360	335	360								440	460	180	250E	Std.	153
					360	360	360	360	360	360	360	360	360			450	510	180	250E	Slow	119
					400	430	400	430	400	430	400	430	—	—		520	560	215	300E	Std.	153
					430	430	430	430	430	430	430	430	430	430		580	830	215	300E	Slow	119
					535	575	535	575	535	575	535	575	535	575		740	910	285	400E	Std.	153
					575	575	575	575	575	575	575	575	575	575		950	—	285	400E	Slow	119
2500	5.75%	480 or 600	173.5		185	200								240	250	100	175E	Std.	153		
					200	200									250	250	100	175E	Slow	119	
					210	230										280	280	115	200E	Std.	153
					230	230	230	230								290	290	115	200E	Slow	119
					265	285	—	—								350	360	140	250E	Std.	153
					285	285	285	285								350	370	140	250E	Slow	119
					320	345	320	345	345	345	345	345	345			410	420	170	300E	Std.	153
					345	345	345	345	345	345	345	345	345			440	530	170	300E	Slow	119
					425	460	425	460	425	460	425	460	—	—		570	610	230	400E	Std.	153
					460	460	460	460	460	460	460	460	460	460		690	860	230	400E	Slow	119
					480	515	480	515	480	515	480	515	480	515		750	970	255	2-250E	Std.	153
					515	515	515	515	515	515	515	515	515	515		840	—	255	2-250E	Slow	119
3750	5.75%	480 or 600	260.2		210	230	230	230						260	270	115	300E	Std.	153		
					230	230	230	230							270	290	115	300E	Slow	119	
					285	305	285	305								360	370	150	400E	Std.	153
					305	305	305	305	305	305	305	305	305			400	450	150	400E	Slow	119
					320	345	320	345	—	—						460	490	170	2-250E	Std.	153
					345	345	345	345	345	345	345	345	345			470	560	170	2-250E	Slow	119
					385	415	385	415	385	415	385	415	—	—		560	600	205	2-300E	Std.	153
					415	415	415	415	415	415	415	415	415	415		640	—	205	2-300E	Slow	119
					510	550	510	550	510	550	510	550	510	550		780	870	275	2-400E	Std.	153
					550	550	550	550	550	550	550	550	550	550		1080	—	275	2-400E	Slow	119

① Refer to S&C Data Bulletin 240-110, page 35.

② For delta grounded-wye connected transformers with the neutral grounded through an impedance, the values in the "delta delta" column apply.

Note: Refer to "How to Use the Fuse Selection Tables" on page 76 (foldout) of S&C Data Bulletin 240-110.



S&C Power Fuses — Types SM, SML, and SMD-20

Indoor and Outdoor Distribution (4.16 kv through 34.5 kv)

THE FUSE SELECTION TABLES

TABLE IV—Transformers Rated 4.8 kv Three-Phase—with Low-Voltage Secondary Current-Limiting Fuses

Transformer Data (Self Cooled)					Low-Voltage Secondary Current-Limiting Fuse— Upper Limit for Amperes Rating, Percent of Transformer Secondary Full-Load Current										S&C Primary Fuse					
					Zussmann		Federal Pacific		General Electric		Gould		Westinghouse		Transformer Protection Index, Percent of Transformer Full-Load Current ①	Loading Capability, Percent of Transformer Primary Full-Load Current	Rating, Amperes	Time-Current Characteristic		
					Feeder	Main	Feeder	Main	Feeder	Main	Feeder	Main	Feeder	Main				Speed	TCC No.	
Kv, Three-Phase	Impedance	Secondary Voltages	Full-Load Current, Amperes											△-△ ②	△-Y ③					
			Primary	Secondary																
300	Up to 4%	208 or 240	38.1	830 at 208v or 720 at 240v	23	26	26	30	49	54	30	34			180	180	100	30E	Slow	119
					26	30	29	34	56	64	34	38			240	240	135	40E	Std.	153
					34	40	39	45	67	81	43	49			240	250	155	40E	Slow	119
					35	41	40	46	76	107	44	50			300	320	180	50E	Std.	153
					46	53	51	58	100	117	55	61			310	320	190	50E	Slow	119
					48	58	55	63	121	133	58	66			410	430	245	65E	Std.	153
					90	102	93	106	125	137	88	102		98	420	440	245	65E	Slow	119
					94	111	103	116	138	154	104	122	104	117	520	590	305	80E	Std.	153
					108	121	113	126	145	165	110	126	109	125	540	680	305	80E	Slow	119
					112	130	121	137	161	181	130	148	125	144	670	760	325	100E	Std.	153
					129	146	136	155	177	200	137	156	133	159	680	—	325	100E	Slow	119
		480 or 600	36.1	360 at 480v or 290 at 600v	27	30	27	30	57	60	29	34			180	180	100	30E	Slow	119
					30	33	29	34	60	65	34	39			240	240	135	40E	Std.	153
					36	40	38	44	59	80	43	50			240	250	155	40E	Slow	119
					37	41	38	44	75	85	45	52			300	320	190	50E	Std.	153
					46	50	46	57	86	104	57	65			310	320	190	50E	Slow	119
					47	53	51	59	100	115	61	69			410	430	245	65E	Std.	153
					53	62	60	69	112	124	63	79			420	440	245	65E	Slow	119
					55	64	63	73	123	137	73	83			520	590	305	80E	Std.	153
					67	79	73	86	132	155	86	98			540	680	305	80E	Slow	119
					69	81	79	93	150	169	90	103			670	760	325	100E	Std.	153
					67	102	93	113	164	195	108	124			680	—	325	100E	Slow	119
500	Up to 4%	208 or 240	60.1	1390 at 208v or 1200 at 240v	26	31	29	50	56	69	32	43			180	180	115	50E	Slow	119
					28	33	32	56	71	78	50	57			230	240	130	65E	Std.	153
					53	59	54	61	73	81	52	59			240	240	150	65E	Slow	119
					55	65	61	69	82	92	62	72	62	70	290	300	190	80E	Std.	153
					64	72	67	76	86	98	65	76	65	74	300	320	180	80E	Slow	119
					71	82	72	82	96	108	78	88	75	86	360	380	195	100E	Std.	153
					77	87	82	93	105	119	82	94	79	95	380	400	195	100E	Slow	119
					92	103	92	106	123	139	102	118	101	115	530	570	225	125E	Std.	153
					101	114	108	121	140	153	115	132	115	129	540	680	225	125E	Slow	119
					109	122	113	126	146	159	127	148	120	135	680	730	260	150E	Std.	153
					120	133	130	147	160	174	142	165	136	156	700	860	260	150E	Slow	119
		121	134	127	140	158	173	146	169	136	156	770	1420	295	175E	Std.	153			
		131	146	145	165	172	195	162	186	153	176	830	—	295	175E	Slow	119			
		480 or 600	60.1	600 at 480v or 480 at 600v	26	29	29	33	51	61	33	38			180	180	115	50E	Slow	119
					27	31	30	34	58	67	35	40			230	240	130	65E	Std.	153
					31	35	35	40	65	73	40	45			240	240	150	65E	Slow	119
					33	38	37	43	73	82	43	49			290	300	180	80E	Std.	153
					40	46	45	52	79	92	51	58			300	320	180	80E	Slow	119
					41	43	47	55	89	101	54	61			360	380	195	100E	Std.	153
					51	60	58	67	93	115	64	74			380	400	195	100E	Slow	119
					56	66	64	74	121	167	70	80			530	570	225	125E	Std.	153
					72	132	78	134	164	180	98	129			540	680	225	125E	Slow	119
70	125				79	136	175	192	126	145		137	680	730	260	150E	Std.	153		
140	156				144	163	189	211	138	159	141	160	700	860	260	150E	Slow	119		
63	148	137	154	191	211	145	166	138	161	770	1420	295	175E	Std.	153					
154	173	162	184	207	235	156	181	157	182	830	—	295	175E	Slow	119					

① Refer to S&C Data Bulletin 240-110, page 35.

② For delta grounded-wye connected transformers with the neutral grounded through an impedance, the values in the "delta delta" column apply.

③ Applicable at 208 v only.

④ Applicable at 480 v only.

TABLE CONTINUED

Note: Refer to "How to Use the Fuse Selection Tables" on page 78 (foldout) of S&C Data Bulletin 240-110.



THE FUSE SELECTION TABLES

TABLE IV—Transformers Rated 4.8 kv Three-Phase—with Low-Voltage Secondary Current-Limiting Fuses—Continued

Transformer Data (Self Cooled)					Low-Voltage Secondary Current-Limiting Fuse— Upper Limit for Ampere Rating, Percent of Transformer Secondary Full-Load Current										S&C Primary Fuse					
					Cusumann		Federal Pacific		General Electric		Gould		Westinghouse		Transformer Protection Index, Percent of Transformer Full-Load Current ①		Loading Capability, Percent of Transformer Primary Full-Load Current	Rating, Amperes	Time-Current Characteristic	
					Feeder	Main	Feeder	Main	Feeder	Main	Feeder	Main	Feeder	Main	Δ-Δ Δ-Y	Δ-Y ②			Speed	TCC No.
Kva, Three-Phase	Impedance	Secondary Voltage	Full-Load Current, Amperes Primary Sec- ondary																	
750	Up to 5.75%	208 or 240	90.2	2080 at 208v or 1800 at 240v	42	48	44	50	57	65	43	50	43	48	190	190	120	30E	Slow	119
					45	52	47	53	63	71	51	58	48	55	240	250	130	100E	Std.	153
					50	57	53	60	68	78	53	61	52	61	240	250	130	100E	Slow	119
					61	69	61	70	81	92	67	73	67	76	340	360	150	125E	Std.	153
					67	75	71	80	93	102	76	83	76	85	350	370	150	125E	Slow	119
					75	81	75	84	97	106	85	98	88	90	420	450	175	150E	Std.	153
					80	88	88	97	106	116	95	110	90	104	430	470	175	150E	Slow	119
					81	89	84	93	105	115	97	113	90	103	480	520	200	175E	Std.	153
					87	97	97	110	115	130	108	124	101	117	500	570	200	175E	Slow	119
					97	96	91	102	113	127	110	126	89	114	570	610	220	200E	Std.	153
					97	109	103	123	128	148	123	142	115	137	580	760	220	200E	Slow	119
					105	119	113	130	140	161	137	161	129	151	730	820	275	250E	Std.	153
					117	134	135	154	166	199	158	179	152	169	800	—	275	250E	Slow	119
		480 or 600	90.2	900 at 480v or 720 at 600v	28	30	29	34	52	61	33	38			190	190	120	30E	Slow	119
					27	31	30	35	57	66	35	40			240	250	130	100E	Std.	153
					33	38	37	43	64	74	41	47			240	250	130	100E	Slow	119
					37	44	42	49	80	111	46	53			340	360	150	125E	Std.	153
					47	53	52	59	109	120	61	65			350	370	150	125E	Slow	119
					47	55	52	60	118	127	64	67			420	450	175	150E	Std.	153
					93	104	96	108	126	140	92	106	94	107	430	470	175	150E	Slow	119
					55	98	91	103	127	141	96	110	82	107	480	520	200	175E	Std.	153
					102	115	108	122	133	156	104	120	105	121	500	570	200	175E	Slow	119
					94	111	99	112	137	153	107	124	102	117	570	610	220	200E	Std.	153
					115	129	120	136	156	177	120	140	121	137	580	760	220	200E	Slow	119
					125	140	123	141	167	188	134	156	132	154	730	820	275	250E	Std.	153
					140	157	148	167	192	217	154	178	155	178	800	—	275	250E	Slow	119
1000	Up to 8%	208 or 240	120.3	2780 at 208v or 2410 at 240v	38	42	40	45	51	58	40	46	39	46	180	190	95	100E	Slow	119
					45	51	45	51	60	68	50	57	49	56	250	260	110	125E	Std.	153
					50	56	52	59	69	75	56	65	56	63	250	260	110	125E	Slow	119
					54	60	55	62	72	79	63	72	59	66	300	320	130	150E	Std.	153
					59	66	64	72	79	86	70	81	67	77	310	330	130	150E	Slow	119
					60	66	63	69	79	86	72	84	67	76	350	370	150	175E	Std.	153
					65	72	72	81	85	95	80	92	75	86	360	380	150	175E	Slow	119
					65	72	68	77	85	95	82	95	74	85	410	430	165	200E	Std.	153
					73	81	81	92	97	111	92	106	87	103	420	450	165	200E	Slow	119
					78	88	84	96	104	120	102	120	96	113	520	560	205	250E	Std.	153
					87	100	100	114	123	141	117	133	114	126	530	670	205	250E	Slow	119
					94	108	103	118	128	146	126	144	118	130	620	700	245	300E	Std.	153
					112	125	126	144	156	180	147	169	137	153	720	—	245	300E	Slow	119
		480 or 600	120.3	1200 at 480v or 960 at 600v	24	28	28	32	48	55	31	35			180	190	95	100E	Slow	119
					27	32	31	36	58	62	34	39			250	260	110	125E	Std.	153
					34	40	37	43	60	69	41	48			250	260	110	125E	Slow	119
					34	40	39	47	66	72	41	48			300	320	130	150E	Std.	153
					69	77	71	80	93	104	68	78	69	79	310	330	130	150E	Slow	119
					41	72	66	76	94	105	72	82	68	79	350	370	150	175E	Std.	153
					76	85	80	90	102	116	77	89	76	90	380	380	150	175E	Slow	119
					70	83	74	84	103	115	80	93	77	88	410	430	165	200E	Std.	153
					88	97	90	102	117	133	90	105	91	103	420	450	165	200E	Slow	119
					92	104	92	105	124	140	100	116	98	114	520	560	205	250E	Std.	153
					104	117	110	124	144	161	115	132	115	132	530	670	205	250E	Slow	119
					111	125	113	129	148	167	121	141	122	139	620	700	245	300E	Std.	153
					127	142	136	154	173	198	148	169	144	161	720	—	245	300E	Slow	119

① Refer to S&C Data Bulletin 240-110, page 35.

② For delta grounded-wye connected transformers with the neutral grounded through an impedance, the values in the "delta delta" column apply.

□ Applicable at 208 v only.

○ Applicable at 480 v only.

TABLE CONTINUED

Note: Refer to "How to Use the Fuse Selection Tables" on page 76 (foldout) of S&C Data Bulletin 240-110.



S&C Power Fuses — Types SM, SML, and SMD-20

Indoor and Outdoor Distribution (4.16 kv through 34.5 kv)

THE FUSE SELECTION TABLES

TABLE IV—Transformers Rated 4.8 kv Three-Phase—with Low-Voltage Secondary Current-Limiting Fuses—Continued

Transformer Data (Self Cooled)				Low-Voltage Secondary Current-Limiting Fuse— Upper Limit for Ampere Rating, Percent of Transformer Secondary Full-Load Current												S&C Primary Fuse				
				Busamann		Federal Pacific		General Electric		Gould		Westing- house		Transformer Protection Index, Percent of Transformer Full-Load Current ①	Loading Capability, Percent of Transformer Primary Full-Load Current	Rating, Amperes	Time-Current Character- istic			
Kva, Three- Phase	Impedance	Secondary Voltage	Primary	Sec- ondary	Feeder	Main	Feeder	Main	Feeder	Main	Feeder	Main	Feeder	Main	   X X X ②			Speed	TCC No.	
1500	Up to 5.75%	208 or 240	180.4	4180 at 208v or 3610 at 240v	40	44	41	46	52	57	48	55	44	50	240	240	100	175E	Std.	153
					43	48	47	53	56	63	53	60	49	57	240	240	100	175E	Slow	119
					43	47	44	50	56	62	54	62	48	55	260	270	110	200E	Std.	153
					48	53	52	60	63	72	60	68	56	67	270	280	110	200E	Slow	119
					52	58	56	64	69	80	68	80	63	75	330	350	135	250E	Std.	153
					58	66	66	75	82	93	73	88	75	84	340	350	135	250E	Slow	119
					62	72	69	78	85	97	84	95	79	86	410	420	165	300E	Std.	153
					74	83	84	96	104	119	98	112	91	102	420	490	165	300E	Slow	119
					78	87	84	96	106	122	108	126	91	102	580	600	220	400E	Std.	153
					95	106	109	123	140	161	134	153	116	132	650	640	220	400E	Slow	119
					88	99	96	108	124	143	127	142	102	116	740	560	245	2-250E	Std.	153
					100	112	117	126	150	172	142	163	123	140	800	—	245	2-250E	Slow	119
					104	117	118	130	152	175	148	171	128	147	910	1250Δ	295	2-300E	Std.	153
					122	137	138	155	181	219	181	208	155	176	1380	—	295	2-300E	Slow	119
	Up to 5.75%	480 or 600	180.4	1800 at 480v or 1440 at 600v	27	47	45	50	53	69	47	54	45②	52②	240	240	100	175E	Std.	153
					50	56	53	60	66	77	51	58	51②	59	240	240	100	175E	Slow	119
					45	53	48	55	67	75	53	61	50②	57	260	270	110	200E	Std.	153
					56	63	58	66	76	87	58	68	59	67	270	280	110	200E	Slow	119
					61	68	61	69	82	93	66	77	65	76	330	350	135	250E	Std.	153
					69	77	73	82	95	107	76	88	76	86	340	350	135	250E	Slow	119
					73	83	75	86	99	111	81	94	81	92	410	420	165	300E	Std.	153
					84	94	91	102	115	125	98	112	96	107	420	490	165	300E	Slow	119
					90	99	93	102	113	129	106	123	98	110	550	600	220	400E	Std.	153
					106	119	116	132	139	163	134	154	127	145	650	840	220	400E	Slow	119
					100	111	103	115	130	145	125	143	111	129	740	860	245	2-250E	Std.	153
					112	125	124	142	149	171	142	164	134	156	800	—	245	2-250E	Slow	119
					116	131	127	146	155	177	151	172	142	167	910	1250Δ	295	2-300E	Std.	153
					135	158	157	179	191	220	182	207	176	196	1380	—	295	2-300E	Slow	119
2000	Up to 5.75%	480 or 600	240.6	2410 at 480v or 1930 at 600v	44	51	45	51	61	68	49	57	47	55	250	250	100	250E	Std.	153
					51	57	53	60	70	79	56	64	56	64	250	260	100	250E	Slow	119
					54	61	55	63	73	83	60	69	60	68	300	300	125	300E	Std.	153
					63	70	67	75	86	93	73	83	71	79	300	320	125	300E	Slow	119
					67	74	69	77	88	96	80	92	74	83	410	420	165	400E	Std.	153
					80	89	87	99	104	122	100	115	96	109	450	510	165	400E	Slow	119
					75	83	77	86	97	109	93	106	83	97	520	560	185	2-250E	Std.	153
					84	93	93	106	112	128	107	123	101	117	530	560	185	2-250E	Slow	119
					87	98	95	106	116	132	113	128	105	124	640	710	220	2-300E	Std.	153
					101	118	117	133	142	163	136	154	131	146	740	—	220	2-300E	Slow	119
					108	125	119	135	148	168	148	170	136	149	860	—	295	2-400E	Std.	153
					140	156	157	178	199	228	188	216	170	191	1310	—	295	2-400E	Slow	119

① Refer to S&C Data Bulletin 240-110, page 35.

② For delta grounded-wye connected transformers with the neutral grounded through an impedance, the values in the "delta delta" column apply.

Δ Applicable to transformers through 4% impedance.

③ Applicable at 480 v only.

TABLE CONTINUED →

Note: Refer to "How to Use the Fuse Selection Tables" on page 76 (foldout) of S&C Data Bulletin 240-110.



THE FUSE SELECTION TABLES

TABLE IV—Transformers Rated 4.8 kv Three-Phase—with Low-Voltage Secondary Current-Limiting Fuses—Continued

Transformer Data (Self Cooled)					Low Voltage Secondary Current-Limiting Fuse— Upper Limit for Ampere Rating, Percent of Transformer Secondary Full-Load Current										S&C Primary Fuse					
					Bussmann		Federal Pacific		General Electric		Gould		Westing-house		Transformer Protection Index, Percent of Transformer Full-Load Current ①		Loading Capacity, Percent of Transformer Primary Full-Load Current	Rating, Amperes	Time-Current Characteristic	
Kvs. Three-Phase	Impedance	Secondary Voltage	Full-Load Current, Amperes		Feeder	Main	Feeder	Main	Feeder	Main	Feeder	Main	Feeder	Main	$\Delta-\Delta$ $\frac{\Delta}{X}$	$\Delta-\Delta$ $\frac{\Delta}{X}$ ②			Speed	TCC No.
2500	Up to 5.75%	480 or 600	300.7	3010 at 480v or 2410 at 600v	44	49	44	51	58	56	48	56	48	54	240	240	100	300E	Std.	153
					50	56	53	60	66	74	58	66	57	63	240	240	100	300E	Slow	119
					53	59	55	61	70	77	63	73	58	66	320	330	130	400E	Std.	153
					53	71	69	78	83	97	79	91	73	85	340	380	130	400E	Slow	119
					60	68	61	68	78	88	74	85	66	77	400	430	160	2-250E	Std.	153
					67	74	74	84	89	102	85	97	80	93	410	450	160	2-250E	Slow	119
					70	78	76	87	93	106	90	103	85	100	490	520	180	2-300E	Std.	153
					81	94	94	107	114	131	109	124	105	117	530	710	180	2-300E	Slow	119
					86	99	94	107	118	134	118	135	108	119	680	740	235	2-400E	Std.	153
					111	124	124	141	158	182	150	171	135	152	840	—	235	2-400E	Slow	119
3750	Up to 5.75%	480 or 600	451.1	4510 at 480v or 3610 at 600v	39	44	40	45	51	57	45	53	44	51	260	270	100	2-250E	Std.	153
					44	49	49	55	58	68	56	64	53	61	260	270	100	2-250E	Slow	119
					48	51	50	57	60	69	59	67	55	65	270	330	120	2-300E	Std.	153
					53	61	61	69	74	86	71	81	69	77	320	350	120	2-300E	Slow	119
					57	66	65	71	78	89	78	90	72	79	330	440	160	2-400E	Std.	153
					74	82	83	94	105	121	100	114	90	101	480	560	160	2-400E	Slow	119

① Refer to S&C Data Bulletin 240-110, page 35.

② For delta grounded-wye connected transformers with the neutral grounded through an impedance, the values in the "delta delta" column apply.

Note: Refer to "How to Use the Fuse Selection Tables" on page 76 (foldout) of S&C Data Bulletin 240-110.



S&C Power Fuses — Types SM, SML, and SMD-20

Indoor and Outdoor Distribution (4.16 kv through 34.5 kv)

THE FUSE SELECTION TABLES

TABLE V—Transformers Rated 8.32 kv Three-Phase—with Low-Voltage Secondary Current-Limiting Fuses

Transformer Data (Self Cooled)					Low-Voltage Secondary Current-Limiting Fuse— Upper Limit for Ampere Rating, Percent of Transformer Secondary Full-Load Current										S&C Primary Fuse				
					Suzsmann		Federal Pacific		General Electric		Gould		Westinghouse		Transformer Protection Index, Percent of Transformer Full-Load Current ①	Loading Capability, Percent of Transformer Primary Full-Load Current	Rating, Amperes	Time-Current Character- istic	
					Feeder	Main	Feeder	Main	Feeder	Main	Feeder	Main	Feeder	Main					
Kva, Three- Phase	Impedance	Secondary Voltage	Full-Load Current, Amperes												Δ-Δ X-X	Δ-X ①			
300	Up to 4%	208 or 240	20.8	830 at 208v or 720 at 240v	23	28	25	29	49	56	30	34			200	210	100	20E	Std. 153
					27	31	31	35	55	63	35	40			210	210	130	20E	Slow 119
					29	35	34	39	63	73	38	44			260	260	170	25E	Std. 153
					33	39	38	44	67	80	42	46			280	260	180	25E	Slow 119
					37	44	42	49	60	111	46	53			310	320	215	30E	Std. 153
					43	51	43	54	96	115	52	62			310	320	215	30E	Slow 119
					50	57	83	98	121	132	55	66			420	440	270	40E	Std. 153
					101	113	104	118	136	152	98	113	98②	97③	440	510	270	40E	Slow 119
					104	122	109	122	145	162	110	130	110	128	550	610	335	50E	Std. 153
					118	133	125	142	160	182	123	143	120	138	550	630	335	50E	Slow 119
		480 or 600	20.8	380 at 480v or 290 at 600v	27	30	26	29	57	60	29	34			200	210	100	20E	Std. 153
					31	34	31	35	60	65	34	40			210	210	130	20E	Slow 119
					33	37	33	38	64	72	38	44			260	260	170	25E	Std. 153
					36	40	38	43	68	80	43	49			260	260	180	25E	Slow 119
					39	43	41	47	78	87	47	55			310	320	215	30E	Std. 153
					43	48	47	54	85	103	54	62			310	320	215	30E	Slow 119
					47	53	52	60	102	117	61	70			420	440	270	40E	Std. 153
					60	69	69	80	123	137	79	90			440	510	270	40E	Slow 119
					60	68	67	79	131	153	78	89			550	610	335	50E	Std. 153
					77	90	88	102	150	169	98	113			580	630	335	50E	Slow 119
500	Up to 4%	208 or 240	34.7	1390 at 208v or 1200 at 240v	25	29	28	50	54	68	31	48			190	190	110	30E	Slow 119
					29	50	32	56	71	78	50	57			250	250	145	40E	Std. 153
					59	66	61	69	80	89	58	66			250	260	160	40E	Slow 119
					61	72	65	73	86	97	66	77	65②	75	310	330	200	50E	Std. 153
					70	79	74	84	95	108	73	85	71	82	320	330	200	50E	Slow 119
					84	91	83	95	110	124	88	101	88	103	420	450	255	65E	Std. 153
					86	96	91	103	118	132	94	108	94	106	430	460	255	65E	Slow 119
					97	109	101	116	131	147	112	128	110	124	530	620	315	80E	Std. 153
					102	115	110	124	142	154	118	136	116	130	560	740	315	80E	Slow 119
					117	129	120	133	152	166	136	158	131	148	700	800	340	100E	Std. 153
					121	135	132	148	162	176	145	168	136	157	710	—	340	100E	Slow 119
		480 or 600	34.7	600 at 480v or 480 at 600v	25	28	27	31	50	61	31	36			190	190	110	30E	Slow 119
					28	31	30	35	59	68	36	41			250	250	145	40E	Std. 153
					34	40	40	46	72	81	46	52			250	260	160	40E	Slow 119
					36	41	40	47	78	91	46	53			310	330	200	50E	Std. 153
					45	53	52	60	89	100	58	66			320	330	200	50E	Slow 119
					48	57	55	64	101	123	61	71			420	450	255	65E	Std. 153
					58	68	64	74	113	153	71	81			430	460	255	65E	Slow 119
					61	71	69	80	152	174	75	125			530	620	315	80E	Std. 153
					76	134	82	137	166	182	115	131			560	740	315	80E	Slow 119
					78	137	128	149	181	198	133	153			700	800	340	100E	Std. 153
					142	159	147	167	191	214	141	161	138②	159③	710	—	340	100E	Slow 119

① Refer to S&C Data Bulletin 240-110, page 35.

② For delta grounded-wye connected transformers with the neutral grounded through an impedance, the values in the "delta delta" column apply.

③ Applicable at 208 v only.

④ Applicable at 480 v only.

TABLE CONTINUED →

Note: Refer to "How to Use the Fuse Selection Tables" on page 76 (foldout) of S&C Data Bulletin 240-110.



THE FUSE SELECTION TABLES

TABLE V—Transformers Rated 8.32 kv Three-Phase—with Low-Voltage Secondary Current-Limiting Fuses—Continued

Transformer Data (Self Cooled)					Low-Voltage Secondary Current-Limiting Fuse— Upper Limit for Ampere Rating, Percent of Transformer Secondary Full-Load Current										800 V Primary Fuse					
					Busmann		Federal Pacific		General Electric		Gould		Westinghouse		Transformer Protection Index, Percent of Transformer Full-Load Current ①		Loading Capacity, Percent of Transformer Primary Full-Load Current	Rating, Amperes	Time-Current Characteristic	
					Feeder	Misc.	Feeder	Misc.	Feeder	Misc.	Feeder	Misc.	Feeder	Misc.	Δ-Δ Δ-Δ	Δ-Y ②			Speed	TCC No.
750	Up to 5.75%	208 or 240	52.0	2060 at 208v or 1800 at 240v	47	52	49	56	63	72	48	56	47	54	210	210	130	60E	Slow	119
					54	60	54	62	72	81	58	66	57	66	270	230	170	35E	Std.	153
					56	63	60	67	77	87	61	71	61	71	270	230	170	85E	Slow	119
					64	73	67	77	87	98	74	85	72	83	330	330	210	40E	Std.	153
					68	76	73	82	94	103	78	90	77	86	330	370	210	60E	Slow	119
					76	86	80	90	101	110	91	103	87	98	420	470	225	100E	Slow	153
					81	90	86	99	107	117	97	112	91	104	450	480	225	160E	Slow	119
					94	106	100	114	123	141	120	138	110	130	610	630	230	125E	Std.	153
					104	116	117	134	141	154	135	157	130	152	650	620	230	125E	Slow	119
					112	127	120	138	151	172	150	173	138	158	790	1030	300	120E	Std.	153
					124	142	143	164	175	201	167	189	159	177	900	—	300	150E	Slow	119
		480 or 600	52.0	500 at 480v or 720 at 600v	25	35	34	40	58	63	33	43	—	—	210	210	130	60E	Slow	119
					31	37	38	42	67	80	40	46	—	—	270	230	170	35E	Std.	153
					37	44	42	48	73	87	46	53	—	—	270	230	170	85E	Slow	119
					40	47	46	53	100	116	50	58	—	—	330	330	210	60E	Std.	153
					50	59	54	61	110	121	77	87	—	—	330	370	210	100E	Slow	119
					52	61	56	66	120	132	88	102	100	106	420	470	225	100E	Std.	153
					94	106	96	111	127	142	93	107	93	106	650	480	225	100E	Slow	119
					109	127	110	124	150	158	120	136	114	132	610	630	230	125E	Std.	153
					124	139	131	147	170	192	132	153	132	153	850	920	230	125E	Slow	119
					135	149	130	151	177	200	149	167	141	163	790	1030	300	150E	Std.	153
					147	164	157	177	203	226	163	190	165	186	900	—	300	150E	Slow	119
1000	Up to 8%	208 or 240	69.4	2780 at 208v or 2410 at 240v	40	46	41	46	54	61	43	50	43	51	200	200	90	65E	Std.	153
					42	47	45	50	58	65	46	53	46	53	210	210	130	65E	Slow	119
					48	54	50	57	64	73	55	63	54	61	250	250	145	80E	Std.	153
					50	56	54	61	69	76	58	66	57	64	250	270	155	80E	Slow	119
					58	64	60	66	75	82	67	78	65	73	310	320	170	100E	Std.	153
					60	67	66	73	80	87	72	83	67	77	320	330	170	100E	Slow	119
					71	79	75	85	92	106	90	104	83	97	440	460	165	125E	Std.	153
					78	87	88	100	106	123	101	116	97	114	450	520	165	125E	Slow	119
					83	94	89	102	113	128	112	129	103	117	560	600	225	150E	Std.	153
					92	106	107	121	130	150	124	141	119	132	570	680	225	150E	Slow	119
					94	108	103	118	127	145	129	147	118	130	640	780	255	175E	Std.	153
					103	119	121	138	147	169	136	159	130	145	660	840	255	175E	Slow	119
					105	118	115	130	142	163	144	165	127	140	740	1110	235	200E	Std.	153
					120	133	137	155	170	195	160	186	146	164	840	—	235	200E	Slow	119
		480 or 600	69.4	1200 at 480v or 960 at 600v	23	27	27	31	50	59	30	34	—	—	200	200	90	65E	Std.	153
					28	32	31	36	54	72	34	39	—	—	210	210	130	65E	Slow	119
					29	35	33	39	70	86	36	42	—	—	250	250	145	80E	Std.	153
					36	45	39	47	81	96	52	65	—	—	250	270	155	80E	Slow	119
					38	47	42	50	90	98	56	66	76	86	310	320	170	100E	Std.	153
					70	78	72	82	95	106	69	80	69	79	320	330	170	100E	Slow	119
					82	95	82	93	112	126	90	102	85	99	440	460	165	125E	Std.	153
					93	104	98	110	128	144	99	115	95	115	450	520	165	125E	Slow	119
100	111	97	112	132	149	111	124	104	121	560	600	225	150E	Std.	153					
109	122	117	132	151	169	121	141	122	139	570	680	225	150E	Slow	119					
110	124	113	129	149	167	124	145	122	136	640	760	255	175E	Std.	153					
121	135	121	137	157	181	138	160	137	153	660	840	255	175E	Slow	119					
122	137	125	142	164	179	142	162	135	151	740	1110	235	200E	Std.	153					
136	150	146	165	182	198	160	185	154	175	840	—	235	200E	Slow	119					

① Refer to S&C Data Bulletin 240-110, page 35.

② For delta grounded-wye connected transformers with the neutral grounded through an impedance, the values in the "delta delta" column apply.

△ Applicable to transformers through 4% impedance.

○ Applicable at 480 v only.

◇ Applicable to transformers through 5.75% impedance.

TABLE CONTINUED

Note: Refer to "How to Use the Fuse Selection Tables" on page 76 (foldout) of S&C Data Bulletin 240-110.



S&C Power Fuses — Types SM, SML, and SMD-20

Indoor and Outdoor Distribution (4.16 kv through 34.5 kv)

THE FUSE SELECTION TABLES

TABLE V—Transformers Rated 8.32 kv Three-Phase—with Low-Voltage Secondary Current-Limiting Fuses—Continued

Transformer Data (Self Cooled)					Low-Voltage Secondary Current-Limiting Fuse— Upper Limit for Ampere Rating, Percent of Transformer Secondary Full-Load Current										S&C Primary Fuse						
					Bussmann		Federal Pacific		General Electric		Gould		Westinghouse		Transformer Protection Index, Percent of Transformer Full-Load Current ①		Loading Capability, Percent of Transformer Primary Full-Load Current	Rating, Amperes	Time-Current Characteristic		
															Δ-Δ X-X	Δ-Y ②			Speed	TCC No.	
Rvs. Three-Phase	Impedance	Secondary Voltage	Full-Load Current, Amperes		Feeder	Main	Feeder	Main	Feeder	Main	Feeder	Main	Feeder	Main	Δ-Δ X-X	Δ-Y ②					
1500	Up to 5.75%	208 or 240	104.1	4160 at 208v or 3810 at 240v	40	44	43	48	53	58	47	55	45	51	210	210	110	100E	Slow	119	
					46	52	49	56	60	69	59	68	54	63	290	300	130	125E	Std.	153	
					51	57	57	65	69	81	66	77	63	75	290	310	130	125E	Slow	119	
					55	63	59	68	75	85	74	86	68	78	350	370	150	150E	Std.	153	
					61	70	71	80	87	99	82	93	79	88	360	390	150	150E	Slow	119	
					62	72	69	78	85	96	85	98	78	86	410	430	170	175E	Std.	153	
					69	79	80	91	97	112	92	106	86	98	420	450	170	175E	Slow	119	
					70	79	76	87	94	108	96	110	85	93	470	500	190	200E	Std.	153	
					80	89	91	103	113	130	106	124	97	109	480	570	190	200E	Slow	119	
					85	96	95	106	119	137	121	137	101	114	600	650	240	250E	Std.	153	
					96	107	112	124	142	164	136	155	118	134	640	870Δ	240	250E	Slow	119	
					101	113	113	125	147	169	143	163	122	139	720	1030	285	300E	Std.	153	
					117	131	133	147	181	208	172	198	147	169	950	—	285	300E	Slow	119	
		480 or 600	104.1	1800 at 480v or 1440 at 600v	46	52	48	54	63	70	46	53	45②	52②	210	210	110	100E	Slow	119	
					53	62	54	61	74	83	59	66	57②	65	290	300	130	125E	Std.	153	
					61	68	64	72	83	94	65	75	65	75	290	310	130	125E	Slow	119	
					66	74	64	74	88	99	74	82	68	80	350	370	150	150E	Std.	153	
					73	81	77	87	100	112	80	94	81	92	360	390	150	150E	Slow	119	
					73	83	75	86	98	111	82	97	81	92	410	430	170	175E	Std.	153	
					80	90	87	98	111	120	92	106	91	102	420	450	170	175E	Slow	119	
					81	91	83	94	109	119	94	108	90	101	470	500	190	200E	Std.	153	
					90	100	97	110	121	132	107	123	102	116	480	570	190	200E	Slow	119	
					97	107	101	113	127	139	118	136	109	127	600	650	240	250E	Std.	153	
					107	120	119	135	141	165	135	156	129	147	640	870Δ	240	250E	Slow	119	
					113	127	121	139	150	172	144	165	135	157	720	1030	285	300E	Std.	153	
					130	149	149	170	180	209	172	198	166	188	950	—	285	300E	Slow	119	
2000	Up to 5.75%	480 or 600	138.8	2410 at 480v or 1930 at 600v	48	54	47	54	65	73	54	61	51	59	260	270	110	150E	Std.	153	
					54	60	57	64	74	83	59	69	60	68	260	270	110	150E	Slow	119	
					54	61	55	63	73	82	61	71	60	68	300	310	130	175E	Std.	153	
					59	67	64	72	82	90	68	79	67	75	310	320	130	175E	Slow	119	
					60	68	62	70	81	89	70	80	67	75	340	360	140	200E	Std.	153	
					67	74	72	81	90	98	79	91	76	86	350	370	140	200E	Slow	119	
					73	81	76	85	95	104	88	102	82	96	440	460	180	250E	Std.	153	
					81	90	89	101	106	124	101	117	97	110	450	510	180	250E	Slow	119	
					84	95	90	103	111	128	107	123	100	117	520	560	215	300E	Std.	153	
					97	111	111	126	134	155	128	147	123	140	580	830	215	300E	Slow	119	
					103	119	113	129	141	161	142	163	130	144	740	910	285	400E	Std.	153	
					130	147	147	168	184	212	174	199	160	179	950	—	285	400E	Slow	119	

① Refer to S&C Data Bulletin 240-110, page 35.

② For delta grounded-wye connected transformers with the neutral grounded through an impedance, the values in the "delta delta" column apply.

Δ Applicable to transformers through 4% impedance.

⊙ Applicable at 480 v only.

TABLE CONTINUED →

Note: Refer to "How to Use the Fuse Selection Tables" on page 76 (foldout) of S&C Data Bulletin 240-110.



THE FUSE SELECTION TABLES

Transformer Data (Self Cooled)						Low-Voltage Secondary Current-Limiting Fuse— Upper Limit for Ampere Rating, Percent of Transformer Secondary Full-Load Current														S&C Primary Fuse					
						Bussmann		Federal Pacific		General Electric		Gould		Westing-house		Transformer Protection Index, Percent of Transformer Full-Load Current ①		Loading Capability, Percent of Transformer Primary Full-Load Current	Rating, Amperes	Time-Current Characteristic					
Kva, Three-Phase	Impedance	Secondary Voltage	Full-Load Current, Amperes		Feeder	Main	Feeder	Main	Feeder	Main	Feeder	Main	Feeder	Main							Speed	TCC No.			
			Primary	Secondary																					
2500	Up to 5.75%	480 or 600	173.5	3010 at 480v or 2410 at 600v	43	48	45	51	59	67	47	55	48	54	210	210	90	150E	Slow	119					
					43	48	43	49	57	65	48	56	47	54	240	250	100	175E	Std.	153					
					47	52	50	57	65	71	53	62	53	59	250	250	100	175E	Slow	119					
					48	54	49	56	64	70	55	64	53	59	280	280	115	200E	Std.	153					
					53	59	57	64	71	78	63	72	60	68	290	290	115	200E	Slow	119					
					58	64	60	67	76	83	70	81	65	76	350	360	140	250E	Std.	153					
					64	71	70	80	84	98	80	93	77	87	350	370	140	250E	Slow	119					
					68	76	72	83	89	103	86	99	81	94	410	420	170	300E	Std.	153					
					77	89	89	101	107	125	103	118	99	112	440	530	170	300E	Slow	119					
					82	95	89	102	112	128	113	129	103	115	570	610	230	400E	Std.	153					
					103	117	117	133	145	168	138	159	127	143	690	860	230	400E	Slow	119					
					96	108	102	117	130	149	131	151	115	126	750	970	255	2-250E	Std.	153					
					110	123	125	142	156	179	148	169	134	150	840	—	255	2-250E	Slow	119					
					3750	Up to 5.75%	480 or 600	260.2	4510 at 480v or 3610 at 600v	42	47	46	53	55	65	53	61	51	57	230	230	95	250E	Slow	119
44	50	47	54	58						67	56	65	53	61	260	270	115	300E	Std.	153					
51	58	58	66	70						81	67	77	64	74	270	290	115	300E	Slow	119					
55	63	59	68	75						85	75	86	68	76	360	370	150	400E	Std.	153					
69	78	77	88	97						112	92	105	85	95	400	450	150	400E	Slow	119					
64	72	66	77	86						99	87	100	76	84	460	490	170	2-250E	Std.	153					
73	82	83	94	103						119	98	112	89	100	470	560	170	2-250E	Slow	119					
75	85	85	95	104						120	104	120	90	102	560	600	205	2-300E	Std.	153					
88	99	103	115	131						151	125	143	108	123	640	—	205	2-300E	Slow	119					
93	104	103	115	135						155	134	154	111	127	760	870	275	2-400E	Std.	153					
116	131	128	145	163						211	174	200	149	171	1060	—	275	2-400E	Slow	119					

② For delta grounded-wye connected transformers with the neutral grounded through an impedance, the values in the "delta delta" column apply.



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