PRODUCTS AT A GLANCE

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S&C IS HERE TO HELP

We are applying our century-long heritage of innovation to address the challenges facing today's and tomorrow's power grid. Our solutions are pushing the boundaries of reliability and reducing the duration of outages from hours to seconds—or to no outage at all. In fact, S&C's technology helps save an average of 2.9 billion customer-outage minutes each year.

Our solutions are designed to withstand the impacts of time and nature to keep the lights on around the world. From distribution automation to our award-winning microgrids, we are helping make the grid smart and integrate distributed energy resources. Our non-wires alternatives are at the forefront of how the grid will change and are providing breakthroughs in the toughest energy challenges.

To move from the grid you have to the grid you need, S&C's experts are here to help. These are the men and women with the skills and know-how to help you plan and execute solutions—from concept through completion.

We have designed this guide for you to quickly reference our wide range of electric power switching, protection, and control solutions. For more information, please visit **sandc.com**, or contact your local S&C sales representative.

SERVICES

S&C's Power Systems Solutions team of automation-system planning and engineering experts have vast expertise in the real-world application of technology for improved grid reliability. They're well suited to perform the study, engineering and design, installation, project management, and field services needed to deliver and maintain a complete smart grid solution. These services can be furnished individually or as a complete solution.

TOOLS

S&C offers a wide range of handling tools, including the industrywide-accepted Loadbuster®—The S&C Loadbreak Tool. By using a Loadbuster tool on properly designed equipment (cutouts, power fuse mountings, and single-phase switches), customers can obtain an open point on their system with ease. The tool is available in two styles to cover system voltages from 15 kV to 35 kV, and it can interrupt up to 900 amperes continuous current.

SPEEDNET™ RADIOS AND SPEEDNET™ CELL EDGE GATEWAY

Reliable communication networks are a critical component of SCADA and grid-automation systems. When choosing a communication solution, a few key parameters to consider are resiliency, latency, and security.

	SpeedNet™ Radios		SpeedNet™ SDR Software Defined Radios				SpeedNet™ Cell Edge Gateway
	SpeedNet™ Radio	SpeedNet™ ME Mesh End-Point Radio	SpeedNet SDR 4	SpeedNet SDR 4x4	SpeedNet SDR 9	SpeedNet SDR 9x9	
Frequency	902-928 MHz		406–430 & 450–470 MHz		928–960 MHz		3G: 850 MHz, 1900 MHz 4G: 700 MHz, 850 MHz, 1700 / 2100 MHz, 1900 MHz, 2300 MHz
Data Rate	600 kbps	300 kbps	56.7 kbps @ 12.5 kHz	113.4 kbps @ 25 kHz	114 kbps @ 25 kHz	228 kbps @ 50 kHz	10 Mbps downlink, 5 Mbps uplink ①
Idle Channel Latency	10 milliseconds		28 milliseconds	14 milliseconds	14 milliseconds	7 milliseconds	100-200 milliseconds ①
Encryption	128-bit AES		256-bit AES		256-bit AES		256-bit AES, ECC
Certifications	FCC, IC, Brazil, Australia, New Zealand		FCC, IC, ETSI/CE, South Africa		FCC, IC		FCC, IC
IntelliTeam® CNMS Communication Network Management System	✓	✓	✓	✓	✓	✓	–

① Many factors affect the speed and performance of cellular devices, including proximity to a cell site, the capacity of the cell site, the surrounding terrain, placement of the cellular device inside equipment, radio-frequency interference, the number of other devices attempting to use the same spectrum resources, the data plan from wireless carrier, and weather.

AUTOMATION & DISTRIBUTION

Mounting Style		IntelliRupter® PulseCloser® Fault Interrupter			Padmount IntelliRupter® PulseCloser® Fault Interrupter		TripSaver® II Cutout-Mounted Recloser		VacuFuse™ Self-Resetting Interrupter	Scada-Mate® Switching System			Scada-Mate® SD Switching System	
		Overhead Non-Disconnect Style, Disconnect Style			Non-Disconnect Style, Disconnect Style		Overhead		Overhead	Overhead			Overhead	
kV	Nominal 60 Hz (50 Hz)	12.47 (11)	15.93 (20)	34.5 (33)	12.47 (11.0)	18.7 (18)	15	25	25	14.4 (10)	25 (20)	34.5	14.4 (10)	25 (20)
	Max 60 Hz (50 Hz)	15.5 (12.1)	27.0 (24.2)	38 (38)	15.5 (12.1)	27.0 (24.2)	15.5	29	29	17.0 (15)	29 (24)	38	17.0 (15)	29 (24)
	BIL 60 Hz (50 Hz)	110 (110)	125 (125)	170 (170)	110 (110)	125 (125)	110	125 /150	125	110 (110)	150 (150)	200	110 (110)	125 (125)
Leakage Distance to Ground, Minimum Inches (mm)		38 (965)	38 (965)	46 ¼ (1178)	38 (965)	38 (965)	—	—	17 (432) w/ porcelain insulator 19 (483) w/ polymer insulator	110 (110)	150 (150)	200	110 (110)	125 (125)
Amperes, RMS	Continuous 60Hz (50Hz) Amperes	800	800	630	630	630	40 / 100 / 200	40 / 100 / 200	20	600 (630)	600 (630)	600 (630)	900	900
	Interrupting, 60 Hz	16 000	12 500	12 500	16 000	12 500	4 000 / 6 300	4 000 / 6 300	6 300	600	600	600	900	900
	Interrupting, 50 Hz	16 000	12 500	12 500	16 000	12 500	4 000 / 6 300	4 000 / 6 300	6 300	630	630	630	900	900
	Main Bus Continuous Current, 60 Hz (50 Hz)	—	—	—	—	—	—	—	—	—	—	—	—	—
	Short-Circuit Symmetrical, 60 Hz (50 Hz)	16 000	12 500	12 500	16 000	12 500	4 000 / 6 300	4 000 / 6 300	—	—	—	—	—	—
	Peak Withstand, Amperes, Peak	—	—	—	—	—	10 000 / 15 100	10 000 / 15 100	—	—	—	—	41 600	41 600
	Momentary Asymmetrical	24 800	20 000	20 000	24 800	20 000	—	—	—	25 000	25 000	25 000	25 000	25 000
	Fault Interrupter – Continuous & Load Dropping	—	—	—	—	—	—	—	—	—	—	—	—	—
	Fault Interrupter – Ten-Time Duty-Cycle Fault Interr., Sym.	—	—	—	—	—	—	—	—	—	—	—	—	—
	Load-Interrupter Switch – Continuous & Load Dropping	—	—	—	—	—	—	—	—	—	—	—	—	—
	Load-Interrupter Switch – Momentary & One-Second, Sym.	—	—	—	—	—	—	—	—	—	—	—	—	—
	Mini-Rupter® Switch or Alduti-Rupter® Switch – Continuous	—	—	—	—	—	—	—	—	—	—	—	—	—
	Mini-Rupter® Switch or Alduti-Rupter® Switch – Load Dropping	—	—	—	—	—	—	—	—	—	—	—	—	—
Fuse Unit / Refill Unit / Fuse Link / Cartridge / Module/Mounting Used		—	—	—	—	—	—	—	Type X5 Fuse Cutout Mounting	—	—	—	—	—
S&C Controls		IntelliRupter Control Group			IntelliRupter Control Group		—		—	6800 Series Automatic Switch Control			6800 Series Automatic Switch Control	
Software	IntelliLink® Setup Software	✓	✓	✓	✓	✓	—	—	—	✓	✓	✓	✓	✓
	IntelliTeam® SG Automatic Restoration System	✓	✓	✓	✓	✓	—	—	—	✓	✓	✓	✓	✓
	IntelliTeam® FMS Feeder Management System	✓	✓	✓	✓	✓	—	—	—	✓	✓	✓	✓	✓
	TripSaver® II Service Center Configuration Software	—	—	—	—	—	✓	✓	—	—	—	—	—	—

Mounting Style		Remote Supervisory & Source-Transfer Vista® Underground Distribution Switchgear			Remote Supervisory & Source-Transfer PMH Pad-Mounted Gear		Remote Supervisory & Source-Transfer PME Pad- Mounted Gear		Vista® Underground Distribution Switchgear			Vista® SD Underground Distribution Switchgear ★		Wind Turbine Style Vista Switchgear
kV	Nominal 60 Hz (50 Hz)	15.5 (12)	27 (24)	38 (36)	14.4	25	14.4	25	15.5 (12)	27 (24)	38 (36)	15	27	38 (36)
	Max 60 Hz (50 Hz)	15.5 (15.5)	29 (29)	38 (38)	17	27	17	27	15.5 (15.5)	29 (29)	38 (38)	17.5	29	38 (38)
	BIL 60 Hz (50 Hz)	95 (95)	125 (125)	150 (150)	95	125	95	125	95 (95)	125 (125)	150 (150)	95	125	150 (150)
Leakage Distance to Ground, Minimum Inches (mm)		—	—	—	—	—	—	—	—	—	—	—	—	—
Amperes, RMS	Continuous 60Hz (50Hz) Amperes	—	—	—	—	—	—	—	—	—	—	—	—	—
	Interrupting, 60 Hz	—	—	—	—	—	—	—	—	—	—	—	—	—
	Interrupting, 50 Hz	—	—	—	—	—	—	—	—	—	—	—	—	—
	Main Bus Continuous Current, 60 Hz (50 Hz)	600 (630) / 1 200 (1 200)	600 (630) / 1 200 (1 200)	600 (630) / 1 200 (1 200)	600	600	600	600	600 (630) / 1 200 (1 200)	600 (630) / 1 200 (1 200)	600 (630) / 1 200 (1 200)	600 (630)	600 (630)	600 (630)
	Short-Circuit Symmetrical, 60 Hz (50 Hz)	12 500 / 25 000	12 500 / 25 000	12 500 / 25 000	14 000	12 500	14 000	12 500	12 500 (12 500) / 25 000 (25 000)	12 500 (12 500) / 25 000 (25 000)	12 500 (12 500) / 25 000 (25 000)	16 000	12 500	25 000 (25 000)
	Peak Withstand, Amperes, Peak	32 500 / 65 000	32 500 / 65 000	32 500 / 65 000	36 400	32 500	36 400	32 500	32 500 / 65 000	32 500 / 65 000	32 500 / 65 000	—	—	65 000
	Momentary Asymmetrical	20 000 / 40 000	20 000 / 40 000	20 000 / 40 000	22 400	20 000	22 400	20 000	20 000 / 40 000	20 000 / 40 000	20 000 / 40 000	—	—	40 000
	Fault Interrupter – Continuous & Load Dropping	200 (200) / 600 (630) / 900 (900)	200 (200) / 600 (630) / 900 (900)	200 (200) / 600 (630) / 900 (900)	—	—	—	—	200 (200) / 600 (630) / 900 (900)	200 (200) / 600 (630) / 900 (900)	200 (200) / 600 (630) / 900 (900)	200 (200) / 600 (630)	200 (200) / 600 (630)	600 (630)
	Fault Interrupter – Ten-Time Duty-Cycle Fault Interr., Sym.	12 500 / 25 000	12 500 / 25 000	12 500 / 25 000	—	—	—	—	12 500 (12 500) / 25 000 (25 000)	12 000 (12 000) / 25 000 (25 000)	12 500 (12 500) / 25 000(25 000)	—	—	25 000 (25 000)
	Load-Interrupter Switch – Continuous & Load Dropping	600 (630) / 900 (900)	600 (630) / 900 (900)	600 (630) / 900 (900)	—	—	—	—	600 (630) / 900 (900)	600 (630) / 900 (900)	600 (630) / 900 (900)	600 (630)	600 (630)	—
	Load-Interrupter Switch – Momentary & One-Second, Sym.	12 500 / 25 000	12 500 / 25 000	12 500 / 25 000	—	—	—	—	12 500 (12 500) / 25 000 (25 000)	12 500 (12 500) / 25 000 (25 000)	12 500 (12 500) / 25 000 (25 000)	16 000 (16 000)	16 000 (16 000)	—
	Mini-Rupter® Switch or Alduti-Rupter® Switch – Continuous	—	—	—	600	600	600	600	—	—	—	—	—	—
	Mini-Rupter® Switch or Alduti-Rupter® Switch – Load Dropping	—	—	—	600	600	600	600	—	—	—	—	—	—
Fuse Unit / Refill Unit / Fuse Link / Cartridge / Module/Mounting Used		—	—	—	SML-20, SML-4Z, Fault Fiter® Electronic Power Fuse; RMS Sym. alters depending on the fuse type		SML-20, SML-4Z, Fault Fiter® Electronic Power Fuse; RMS Sym. alters depending on the fuse type		—	—	—	—	—	—
S&C Controls		Micro-AT® Source-Transfer Control (standard for Source-Transfer Vista switchgear)/6800 Series Automatic Switch Control (optional)/IntelliNode™ Interface Module (optional)			Micro-AT® Source-Transfer Control (standard for Source-Transfer PMH switchgear)/ 6800 Series Automatic Switch Control (optional for Remote-Supervisory PMH switchgear)		Micro-AT® Source-Transfer Control (standard for Source-Transfer PME switchgear)/6800 Series Automatic Switch Control (optional for Remote-Supervisory PME switchgear)		—			—		—
Software	IntelliLink® Setup Software	IntelliLink® Setup Software, IntelliTeam® SG Automatic Restoration System, and IntelliTeam® FMS Feeder Management System are available if 6800 Series Controls or IntelliNode™ Interface Modules are provided			IntelliLink® Setup Software, IntelliTeam® SG Automatic Restoration System, and IntelliTeam® FMS Feeder Management System are available if 6800 Series Controls are provided		IntelliLink® Setup Software, IntelliTeam® SG Automatic Restoration System, and IntelliTeam® FMS Feeder Management System are available if 6800 Series Controls are provided		—			—		—
	IntelliTeam® SG Automatic Restoration System													
	IntelliTeam® FMS Feeder Management System													
	TripSaver® II Service Center Configuration Software	—			—		—		—			—		—

Mounting Style		System VI™ Switchgear			Custom Metal-Enclosed Switchgear				PMH Pad-Mounted Gear		PME Pad-Mounted Gear	
kV	Nominal 60 Hz (50 Hz)	15.5 (12)	27 (24)	38 (36)	4.16	13.8	25	34.5	14.4	25	14.4	25
	Max 60 Hz (50 Hz)	15.5 (15.5)	29 (29)	38 (38)	4.8	17	29	38	17	27	25	27
	BIL 60 Hz (50 Hz)	95 (95)	125 (125)	150 (150)	60	95	125 or 150	150 or 200	95	125	95	125
Leakage Distance to Ground, Minimum Inches (mm)		—	—	—	—	—	—	—	—	—	—	—
Amperes, RMS	Continuous 60Hz (50Hz) Amperes	—	—	—	—	—	—	—	—	—	—	—
	Interrupting, 60 Hz	—	—	—	—	—	—	—	—	—	—	—
	Interrupting, 50 Hz	—	—	—	—	—	—	—	—	—	—	—
	Main Bus Continuous Current, 60 Hz (50 Hz)	600 (630) — 2 000 (2 000)	600 (630) — 2 000 (2 000)	600 (630) — 2 000 (2 000)	600 / 1 200	600 / 1 200	600 / 1 200	600 / 1 200	600	600	600	600
	Short-Circuit Symmetrical, 60 Hz (50 Hz)	12 500 (12 500) / 25 000 (25 000)	12 500 (12 500) / 25 000 (25 000)	12 500 (12 500) / 25 000 (25 000)	17 200 / 25 000 / 37 000 / 40 000	12 500 / 14 000 / 25 000 / 34 000 / 40 000	9 400 /12 500 / 17 500 / 20 000 / 40 000	6 250 / 8 450 / 17 500	14 000	12 500	25 000	12 500
	Peak Withstand, Amperes, Peak	32 500 / 65 000	32 500 / 65 000	32 500 / 65 000	44 720 / 65 000 / 96 200 / 104 000	32 500 / 36 400 / 65 000/88 400 /104 000	22 440 / 32 500 / 45 500/52 000/10 4000	16 250 / 21 970 / 45 500	36 400	32 500	36 400	32 500
	Momentary Asymmetrical	20 000 / 40 000	20 000 / 40 000	20 000 / 40 000	27 520 / 40 000 / 59 200 / 64 000	20 000 /22 400 / 40 000 / 54 400 / 64 000	15 040 / 20 000 / 28 000 /32 000 / 64 000	10 000 / 13 520 / 28 000	22 400	20 000	22 400	20 000
	Fault Interrupter – Continuous & Load Dropping	200 (200) / 600 (630) / 900 (900)	200 (200) / 600 (630) / 900 (900)	200 (200) / 600 (630) / 900 (900)	—	—	—	—	—	—	—	—
	Fault Interrupter – Ten-Time Duty-Cycle Fault Interr., Sym.	12 500 (12 500) / 25 000 (25 000)	12 500 (12 500) / 25 000 (25 000)	12 500 (12 500) / 25 000 (25 000)	—	—	—	—	—	—	—	—
	Load-Interrupter Switch – Continuous & Load Dropping	600 (630) / 900 (900)	600 (630) / 900 (900)	600 (630) / 900 (900)	—	—	—	—	—	—	—	—
	Load-Interrupter Switch – Momentary & One-Second, Sym.	12 500 (12 500) / 25 000 (25 000)	12 500 (12 500) / 25 000 (25 000)	12 500 (12 500) / 25 000 (25 000)	—	—	—	—	—	—	—	—
	Mini-Rupter® Switch or Alduti-Rupter® Switch – Continuous	—	—	—	600 / 1 200	600 / 1 200	600 / 1 200	600 / 1 200	600	600	600	600
	Mini-Rupter® Switch or Alduti-Rupter® Switch – Load Dropping	—	—	—	600 / 1 200	600 / 1 200	400 / 1 200	600 / 1 200	600	600	600	600
Fuse Unit / Refill Unit / Fuse Link / Cartridge / Module/Mounting Used		—	—	—	SM-4Z, SM-40, SM-55, Fault-Fiter® Electronic Power Fuse	SM-4Z, SM-20, SM-40, SM-55, SM-55S, Fault-Fiter® Electronic Power Fuse	SM-4Z, SM-20, SM-40, SM-55, Fault-Fiter® Electronic Power Fuse	SM-4Z, SM-20, SM-55, Fault-Fiter® Electronic Power Fuse	SML-20, SML-4Z, Fault Fiter® Electronic Power Fuse; Amperes RMS Sym. varies depending on the fuse type		SML-20, SML-4Z, Fault-Fiter® Electronic Power Fuse; Amperes RMS Sym. varies depending on the fuse type	
S&C Controls		—			Micro-AT® Source-Transfer Control available for automation				—		—	
Software	IntelliLink® Setup Software	—			—				—		—	
	IntelliTeam® SG Automatic Restoration System											
	IntelliTeam® FMS Feeder Management System											
	TripSaver® II Service Center Configuration Software	—			—				—		—	

★ **Contact your S&C sales person for more information for enclosure types and available mounting options.**

SWITCHES

		Series 2000 Circuit-Switcher					Trans-Rupter II® Transformer Protector			Mark V Circuit-Switcher								Mark VI Circuit-Switcher			Line-Rupter™ Switch			
Mounting Style & Insulator Type		Horizontial w/Integral Disconnect, Vertical w/Integral Disconnect, Horizontial w/o Disconnect, Vertical w/o Disconnect					Vertical			Vertical Break & Center Break Disconnects								Vertical with Vertical Break Disconnect			Vertical Break & Center Break Disconnects			
kV	Nominal	69	115	138	161	230	69	115	138	34.5	46	69	115	138	161	230	345	69	115	138	115	138	161	230
	Max	72.5	121	145	169	242	72.5	121	145	38	48.3	72.5	121	145	169	242	362	72.5	121	145	121	145	169	242
	BIL	350	550	650	750	900	350	550	650	200	250	350	550	650	750	900	1300	350	550	650	550	650	750	900
Amperes, RMS	Continuous, Amperes	1 200 / 2 000	1 200 / 2 000	1 200 / 2 000	1 200	1 200	420	420	420	1 200	1 200	1 200	1 200	1 200	1 200	1 600 / 2 000	1 600 / 2 000	420	420	420	1 200 / 2 000	1 200 / 2 000	1 200 / 2 000	1 200 / 2 000
	Interrupting, 60 Hz	25 000 / 40 000	25 000 / 40 000	25 000 / 40 000	20 000	20 000	31 500	31 500	31 500	8 000	8 000	8 000	8 000	8 000	8 000	8 000	8 000	31 500	31 500	31 500	—	—	—	—
	Short-Circuit Symmetrical	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Peak Withstand, Amperes, Peak	130 000	130 000	130 000	130 000	130 000	81 900	81 900	81 900	61 000	61 000	61 000	61 000	61 000	61 000	70 000 / 80 000	70 000 / 80 000	81 900	81 900	81 900	61 000	61 000	61 000	61 000
	Momentary Asymmetrical	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

		Loadbuster Disconnect® Switch												Omni-Rupter® Switch			Alduti-Rupter® Switch						Alduti-Rupter® Switch				Regulator Bypass Switches	
Mounting Style & Insulator Type		Branch Feeder; Cypoxy™ and Porcelain Insulators		Main Feeder; Cypoxy™ and Porcelain Insulators		Crossarm; Cypoxy™ and Porcelain Insulators	Station; Cypoxy™ and Porcelain Insulators			Overhead Pole-Top Style; Polymer & Porcelain				Overhead			Outdoor						Indoor				Outdoor	
kV	Nominal	14.4	25	14.4	25	34.5	14.4	25/34.5	34.5	14.4	25	34.5	14.4	25	34.5	14.4	25	25 / 34.5	34.5	46	69	4.8	13.8	25	34.5	14.4	25
	Max	15.5	27	15.5	27	38	15.5	38	38	15.5	27	38	17	29	38	17	27	38	38	48.3	72.5	5.5	17	29	38	17	27
	BIL	110	125	110	125	150	110	150	150/200	110	150	150	110	150	200	110 / 200	150	150	200	250	350	60	95	125	150 / 200	110	150
Amperes, RMS	Continuous, Amperes	630 / 900	630 / 900	630 / 900	630 / 900	900	630 / 900	630 / 900	630 / 900	630 / 900	630 / 900	630 / 900	900	900	630	600 / 1 200 / 2 400	600 / 1 200	600 / 1 200	600 / 630 / 1 200	630	1 200	600 / 1 200	600 / 1 200	600	600	600 / 1 200	600 / 1 200
	Interrupting, 60 Hz	—	—	—	—	—	—	—	—	—	—	—	900	900	630	600 / 1 200 / 1 600	600 / 1 200	600 / 1 200	600 / 630 / 1 200	630	600	600 / 1 200	600 / 1 200	600	600	600 / 1 200	600 / 1 200
	Short-Circuit Symmetrical	—	—	—	—	—	—	—	—	—	—	—	25 000 one-sec. / 20 000 three sec.	25 000 one-sec. / 20 000 three-sec.	25 000 one-sec. / 20 000 three-sec.	25 000 three-sec. / 40 000 three-sec.	25 000 three-sec. / 40 000 three-sec.	25 000 three-sec.	25 000 three-sec.	25 000 three-sec.	25 000 three-sec.	25 000 three-sec. / 40 000 three-sec.	25 000 three-sec. / 40 000 three-sec.	25 000	25 000	—	—
	Peak Withstand, Amperes, Peak	65 000	65 000	65 000	65 000	65 000	65 000	65 000	65 000	65 000	65 000	65 000	65 000	65 000	65 000	—	—	—	65 000	65 000	—	—	—	—	—	—	—
	Momentary Asymmetrical	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40 000 / 61 000	40 000 / 61 000	40 000	40 000	—	40 000	40 000 / 61 000	40 000 / 61 000	40 000	40 000	30 000 / 61 000	30 000 / 61 000

FUSES

| | | Cutouts | | Fault Tamer® Fuse Limiter | | SM Power Fuses | | | | | | | | | | | | SMD® Power Fuses | | | | | | | | | | | | Fault Fiter® Electronic Power Fuse | | | | | SM Power Fuses | | | | | | | | | | | | | | | | | | | | | | | | SML Power Fuses | | SMD® Power Fuses | | | | | | | | | | | | | | | | | | |

FUSES

		Fault Fiter® Electronic Power Fuse Control Modules						Fault Fiter Interrupting Modules	Positrol® Fuse Links						SMU-20® Fuse Unit						SMU-40 Fuse Unit			SM-4® Refill Units				SM-5® Refill Units						Fault Tamer Cartridges		SMD-1A Fuse Units						SMD-2B Fuse Units						SMD-2C Fuse Units				SMD-3 Fuse Units				SMD-50 Fuse Units	
Voltage Rating, kV Nominal		4.16 - 25						4.16 - 25	14.4 - 25						14.4 - 34.5						4.8 - 25			7.2 - 34.5			14.4	4.16 - 34.5	4.16 - 14.4		25 - 34.5		7.2 and 14.4	15 - 38 kV (System Voltage)	12 - 22 kV (System Voltage)	34.5 - 69				115 and 138		69 - 138	69	115 and 138		69 - 138	34.5 and 46				69				34.5 - 69	
Speed/Curve Type		Compound	Instantaneous	Inverse	Underground-Subloop	Type-Delayed Compound	Parallel Inverse	—	S&C Standard	S&C "K"	S&C "T"	S&C "N"	S&C "QR"	S&C Coordinating	S&C "K"	S&C Standard for VT	S&C Standard	S&C Slow	S&C Very Slow	S&C "DR"	S&C Standard for VT	S&C Standard	S&C Slow	S&C Standard for VT	S&C Standard	S&C Slow	S&C Coordinating	S&C Standard for VT	S&C Standard	S&C Slow Speed	S&C Standard	S&C Slow Speed	S&C Coordinating	450-8	123-8	S&C Standard for VT	S&C Standard	S&C Slow	S&C Very Slow	S&C Slow	S&C Very Slow	S&C Standard for VT	S&C Standard	S&C Slow	S&C Standard	S&C Slow	S&C Very Slow	S&C Standard for VT	S&C Standard	S&C Slow	S&C Very Slow	S&C Standard for VT	S&C Standard	S&C Slow	S&C Very Slow	S&C Standard	S&C Slow
Ampere Ratings		600	600	600	600	600	600	600	1-200	6K-200K	6T-200T	5N-200N	1QR-200QR	101-103	3K-200K	1	5E-200E	15E-200E	50E-200E	3DR-20DR	1 & 2	3E-400E	15E-400E	1 & 2	3E-200E	15E-200E	210	1 & 2	3E-400E	15E-400E	3E-300E	15E-300E	410 / 420	3, 5, 7, 10, 15, 20	1, 2, 3, 5, 7, 10, 15, 20	1	3E-200E	15E-200E	50E-200E	15E-100E	50E-100E	1	3E-300E	15E-300E	3E-250E	15E-250E	50E-250E	1	3E-300E	15E-300E	50-250E	1	3E-300E	15E-300E	50E-250E	5E-100E	15E-100E
Application	Outdoor	—	—	—	—	—	—	—	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Indoor	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	—	—	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Minimum Pickup, Amperes		400-1 100	—	400-1 500	400, 500	400, 600, 800, and 1 000	800, 1 000, 1 200, 1 400, 1 600, 2 000, 2 500, and 3 000																																																				
High-Current or Instantaneous Pickup, Amperes RMS		6 000	5 000, 6 000, 8 000, 10 000, and 12 000	—	3 000	3 000 and 6 000	—																																																		