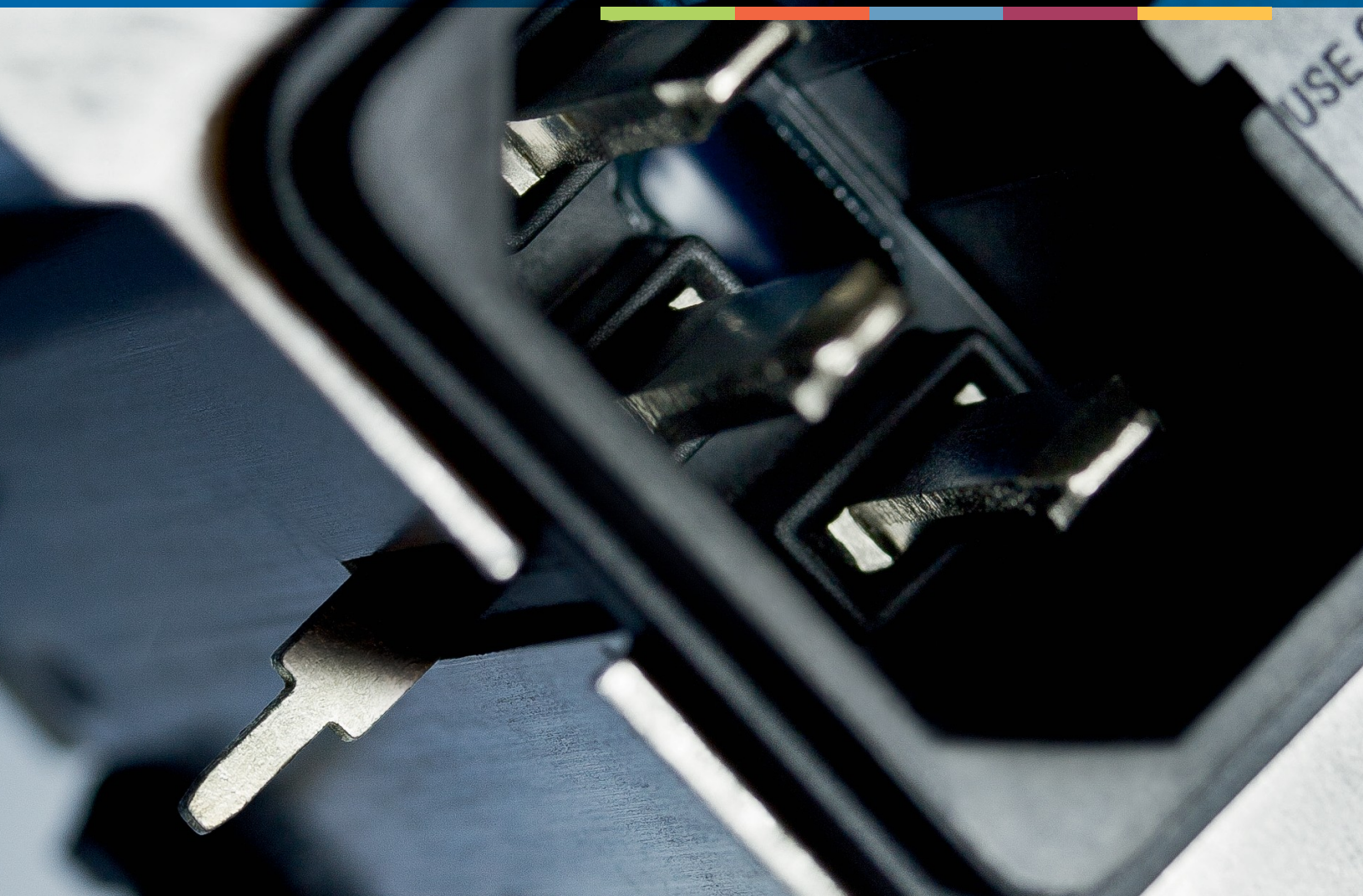
guide to the complete on-line catalog

SCHURTER
ELECTRONIC COMPONENTS

Circuit Protection
Connectors
EMC Products
Switches
EMS

the SCHURTER range at a glance

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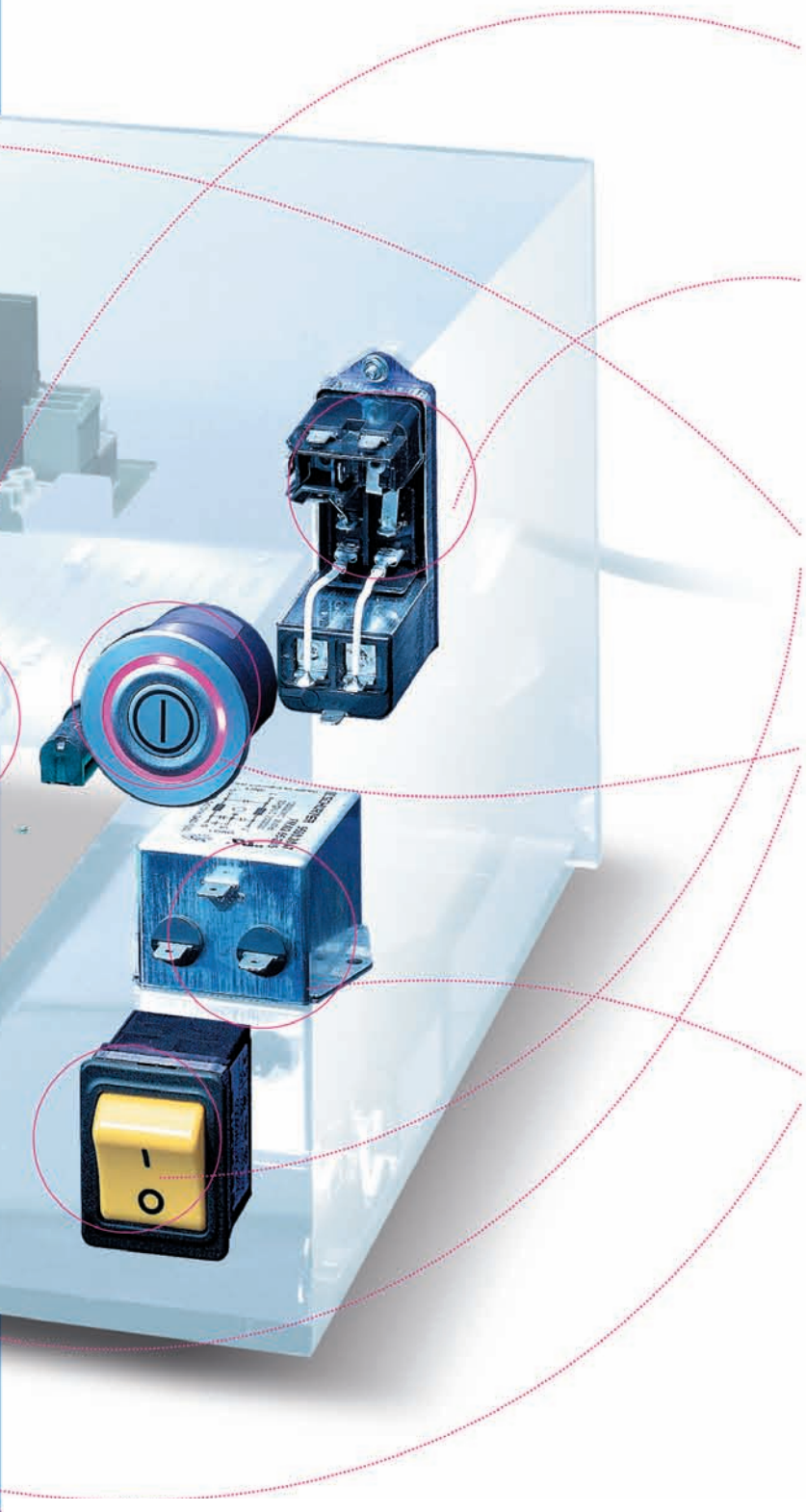
the SCHURTER Range at a Glance

SCHURTER is a progressive innovator and manufacturer of Circuit Protection, Connectors, Switches, and EMC Products to the electronic and electrical industries worldwide. SCHURTER's three divisions: Components, Input Systems and Electronic Manufacturing Services are formed to provide customer specific products and services, which focus on clean and safe power and making equipment easier to use.



The components of our success

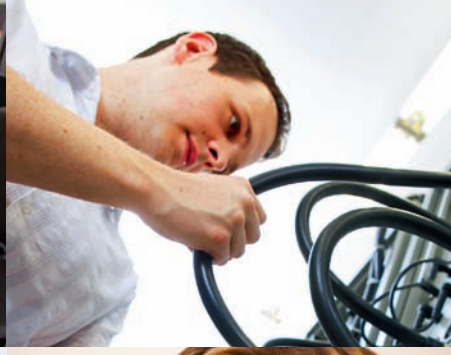
Corporate Ethics

SCHURTER knows that an impeccable brand image can only be built on a foundation of rock solid values. That is why we continuously optimize the quality of our products and services. We collaborate intensively with our customers and partners. And we take - perhaps our most demanding job - full responsibility for our actions towards our staff, society and the environment.

Sustainability

SCHURTER didn't subscribe to this vision just yesterday. We commit ourselves to sustainability by far surpassing any healthy long-term economic development, with a steadfast course in our respect for the environment. Sustainability also determines our social commitment and our principles of leadership. Let us join forces and work together to secure our future.



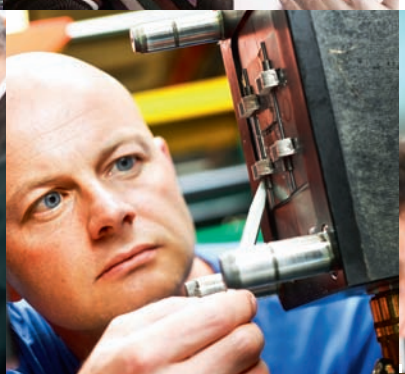


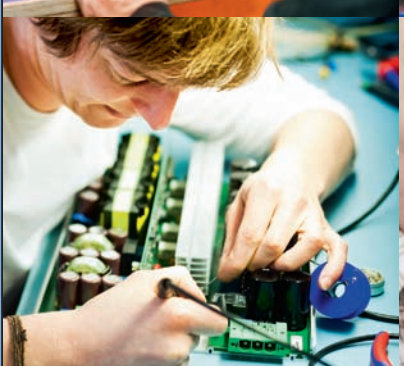




Our Employees

A leader in many markets, a role model in every respect. For SCHURTER, success is based on more than just technological achievements. After all, it is the people here that make it possible to offer people elsewhere a maximum of advantages and security. The task we have assigned to ourselves therefore is clear: Let us establish an environment that facilitates and fosters human achievements - for the benefit of all.


The components of our success

Quality

SCHURTER considers the quality of its products and services key factors for the continuing success of our company. We manager, monitor and further improve excellent processes with the aid of our management systems which we have established and certified in accordance with ISO 9001, ISO 14001, OHSAS 18001 and SA 8000 (more information : www.schurterinc.com). They confirm unequivocally that we take very personally and seriously issues such as quality assurance, process, environmental and human resources management and on-the-job safety as well as socially responsible and ethical behavior in management.

Research and Development

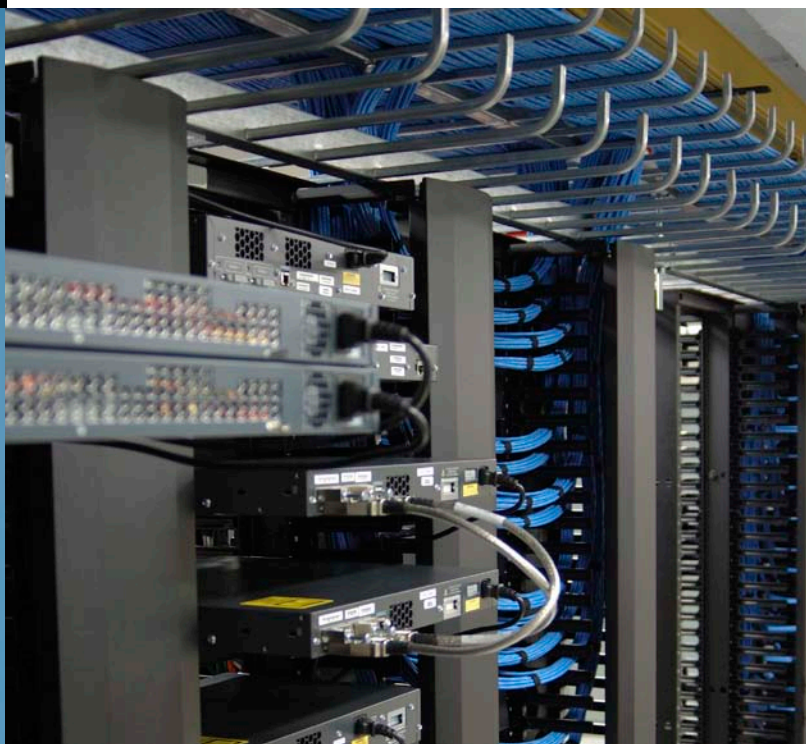
SCHURTER being an innovator, manufacturer and leading supplier of electronic and electrical components, refuses to slow down. To be successful is ou r permanent incentive. We are used to meeting new challenges in the most diverse of markets each day, to boldly realizing new ideas, to supporting and driving forward our R&D teams, and to learning from our own successes and our customers expectations.

Sales and Distribution

SCHURTER is an influential, globally active industrial partner. We are no only, thanks to our products, on the cutting edge of technology; we are, thanks to our distribution network, very close to the markets - with headquarters in Europe, the Americas and Asia as well as regional representatives in over 50 countries and about 200 distributors worldwide, all perfectly familiar with their local regulations, needs and customs - making it a great deal easier for us to always have the best solutions ready for our customers.

Our Customers

SCHURTER makes every effort to contribute -- through high quality products and outstanding service -- to our customers' success. Our aim is simple: supply the best possible products worldwide and cater to the individual needs of our customers.



Circuit Protection

UMZ 250

SMD fuse with clip

FUA

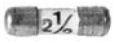
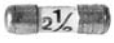
shock-safe fuseholder, 5 x 20 / 6.3 x 32 mm

TA35

circuit breaker for equipment thermal, rocker actuation, 1 - 3 pole

See http://www.schurter.com for approval info related to specific products

	Surface Mount Fuses					
DIMENSIONS	0.55x1.05mm	0.8x1.6mm	1.6 x 3.2 mm	1.6 x 3.2 mm	1.6 x 3.2 mm	1.55 x 3.2 mm
			NEW Low current **USFF** 160-250 mA 	NEW 		
TYPE	**USF 0402**	**USF 0603**	**USF / USFF 1206**	**UST 1206**	**USI 1206**	**MGA**
RATED VOLTAGE	32 VDC	32 VAC/32 VDC	32 VAC/63 VDC			125VAC/125 VDC
RATED CURRENT	0.375 - 5A	0.5 - 5A	0.05 - 4A	7 - 25A	0.5 - 6.3A	0.2 - 5A
BREAKING CAPACITY	35A	50A	50A	100-400A	63A	50A
CHARACTERISTIC	FF	FF	FF	T	F	FF

	Surface Mount Fuses					
DIMENSIONS	1.55 x 3.2 mm	2 x 7 mm	2.54 x 7 mm	2 x 7 mm	2.54 x 7 mm	3.1 x 7.4 mm
	NEW Footprint 5x15 mm space fuse > 3.5 A  ESA Approved for space					
TYPE	**MGA-S**	**172876**	**MKF**	**MSB**	**MKT**	**OMF 63**
RATED VOLTAGE	125 VAC/125 VDC	125 VAC/125 VDC		125 VAC/125 VDC		63 VAC/63 VDC
RATED CURRENT	0.14 - 3.5A	0.063 - 15A	0.063 - 15A	0.75 - 15A	2 - 15A	0.063 - 10A
BREAKING CAPACITY	50A - 300A	300A	300A	50 - 150A	50 - 150A	50A
CHARACTERISTIC	FF	F	F	T	T	F

	Surface Mount Fuses					
DIMENSIONS	5.2 x 12 mm	3.1 x 7.4 / 5.2 x 12 mm		3 x 10.1 mm	3 x 10.1 mm	5.3 x 16 mm
				NEW 	NEW 	NEW 
TYPE	**OMK 63**	**OMF / OMK 125**	**OMT / OMZ 125**	**UMF 250**	**UMT 250**	**UMT-H 250 / 277**
RATED VOLTAGE	63 VAC/63 VDC	125 VAC/125 VDC	125 VAC/125 VDC	250 VAC/125 VDC	250 VAC/125 VDC	
RATED CURRENT	0.063 - 5A	0.063 - 10A / 5A	0.25 - 6.3A	0.5 - 10A	0.08 - 10A	0.16 - 6.3A
BREAKING CAPACITY	50A	100A	100A	100 - 200A	35 - 200A	1500 A
CHARACTERISTIC	F	F	T	F	T	T

	Surface Mount Fuses					
DIMENSIONS	4.2 x 11.1 mm	4.6 x 11 mm	4.6 x 11 mm	5 x 20 mm	5 x 20 mm	5 x 20 mm
	NEW 					
TYPE	**UMZ 250**	**OMF 250**	**OMT 250**	**SMD-FST**	**SMD-FTT**	**SMD-SPT**
RATED VOLTAGE	250 VAC/ 125 VDC	250 VAC/ 250 VDC	250 VAC/ 125 VDC	250 VAC	250 VAC	250 VAC/ 300 VDC
RATED CURRENT	0.08 - 4A	0.25 - 4A	0.75 - 5A	0.05 - 20 A	0.16 - 4A	1 - 16A
BREAKING CAPACITY	200A	100A	50 - 100A	35A - 125A	35A	500 - 1500A
CHARACTERISTIC	T	F	T	T	TT	T

See http://www.schurter.com for approval info related to specific products

	Subminiature Fuses			
DIMENSIONS	Ø 6.4 mm	Ø 8.5 mm	Ø 8.5 mm	Ø 8.5 mm
				
TYPE	**MSF 125**	**MSF 250**	**MST 250**	**MSTU 250**
RATED VOLTAGE	125 VAC/125 VDC	250 VAC	250 VAC / 63 VDC	250 VAC
RATED CURRENT	0.1 - 5A	0.04 - 5A	0.05 - 6.3A	0.063 - 10A
BREAKING CAPACITY	100A	35A	35 - 63A	50A
CHARACTERISTIC	F	F	T	T

	Subminiature Fuses			
DIMENSIONS	Ø 8.5 mm	5 x 11.5 mm	10 x 10 mm	2.36 x 8 mm
				
TYPE	**MXT 250**	**FRT 250 F/T**	**PSC 125V**	**172321 172322**
RATED VOLTAGE	250 VAC	250 VAC	125 VAC/125 VDC	125 VAC/125 VDC
RATED CURRENT	0.8 - 10A	0.16 - 10A	1 - 5A	0.063 - 15A
BREAKING CAPACITY	100A	100A / 50A	50A	300A / 50A
CHARACTERISTIC	T	F/T	F	F

	Subminiature Fuses			
DIMENSIONS	4.5 x 10 mm	3.6 x 10 mm		
		NEW 		
TYPE	**172593**	**SPT 3.6x10**		
RATED VOLTAGE	250 VAC/125 VDC	250 VAC		
RATED CURRENT	0.05 - 5A	0.1 - 5A		
BREAKING CAPACITY	50-300A	35-40A		
CHARACTERISTIC	F	T		

See http://www.schurter.com for approval info related to specific products

	Miniature Fuses			
DIMENSIONS	5 x 20 mm	5 x 20 mm	5 x 20 mm	5 x 20 mm
				
TYPE	**FSF 5x20**	**FST 5x20**	**FSM 5x20**	**FTT 5x20**
RATED VOLTAGE	250 VAC	250 VAC	250 VAC	250 VAC
RATED CURRENT	0.032 - 10A	0.02 - 20A	0.315 - 10A	0.063 - 4A
BREAKING CAPACITY	35-100A	35-200A	80-1000A	35A
CHARACTERISTIC	F	T	M	TT

	Miniature Fuses			
DIMENSIONS	5 x 20 mm	5 x 20 mm	5 x 20 mm	5 x 20 mm
				
TYPE	**FSK 5x20**	**FSL 5x20**	**SA 5x20**	**SP 5x20**
RATED VOLTAGE	250 VAC	250 VAC	250 VAC	250 VAC
RATED CURRENT	0.05 - 6.3A	0.08 - 3A	1.6 - 10A	0.5 - 16A
BREAKING CAPACITY	32 - 10kA	35 - 10kA	1500A	500-1500A
CHARACTERISTIC	F	T	FF	F

	Miniature Fuses			
DIMENSIONS	5 x 20 mm	5 x 20 mm	5 x 20 mm	
				
TYPE	**SPT 5x20**	**D1**	**D1TD**	
RATED VOLTAGE	250 VAC / 300 VDC	220 VAC	220 VAC	
RATED CURRENT	0.5 - 16A	0.02 - 20A	0.031 - 15A	
BREAKING CAPACITY	500-1500A	60-300A	40-100A	
CHARACTERISTIC	T	F	TT	

See pages 14-18 for fuseholders, fuse blocks and fuse clips

Miniature fuses with pigtails available in Tape & Reel:

SP/SPT 5x20

FSF/FST 5x20

See http://www.schurter.com for approval info related to specific products

	Miniature Fuses			
DIMENSIONS	6.3 x 32 mm / 1/4" x 11/4"			
				
TYPE	**FSF / FST 6.3x32**	**SA 6.3x32**	**SP 6.3x32**	
RATED VOLTAGE	125 - 250 VAC	250 VAC	250 VAC	
RATED CURRENT	0.1 - 15A / 0.063 - 15A	1.6 - 16A	0.5 - 20A	
BREAKING CAPACITY	200A - 10kA / 35A - 10kA	1500A	1000 - 1500A	
CHARACTERISTIC	F / T	FF	F	

	Miniature Fuses			
DIMENSIONS	6.3 x 32 mm / 1/4" x 11/4"			
		NEW 	NEW 	NEW 
TYPE	**SPT 6.3x32**	**SUT 6.3x32**	**SHF 6.3x32**	**SHT 6.3x32**
RATED VOLTAGE	250 VAC / 48-63 VDC	250 VAC	500 VAC / DC	500 VAC
RATED CURRENT	0.5 - 32A	12 - 30A	1 - 16A	1 - 8A
BREAKING CAPACITY	1000 - 1500A	500A		1500A
CHARACTERISTIC	T	T	F	T

	Miniature Fuses			
DIMENSIONS	6.3 x 32 mm / 1/4" x 11/4"			
				
TYPE	**A12FA 250V**	**A12FA 500V**	**A12FA 660V**	
RATED VOLTAGE	250 VAC	500 VAC	660 VAC	
RATED CURRENT	0.1 - 20A	0.1 - 12.5A	0.1 - 2A	
BREAKING CAPACITY	200kA	10kA - 150kA	30kA	
CHARACTERISTIC	FF	FF	FF	

	Miniature Fuses		Midget Fuse	
DIMENSIONS	6.3 x 32 mm / 1/4" x 11/4"		10.3 x 38 mm	
			NEW  gPV	
TYPE	**172600**	**172582**	**ASO**	
RATED VOLTAGE	250 VAC	250 VAC / 125 VDC	1000 VDC	
RATED CURRENT	2 - 20A	0.16 - 20A	1 - 30A	
BREAKING CAPACITY	35A - 10kA	1kA - 10kA	20kA	
CHARACTERISTIC	T	F	gPV	

See pages 14-18 for fuseholders, fuse blocks and fuse clips

Miniature fuses with pigtails available in Tape & Reel:

SUT 6.3x32

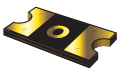
SHT 6.3x32

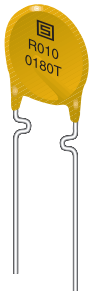
See http://www.schurter.com for approval info related to specific products

TELECOM FUSES

	Surface Mount Fuses	Subminiature Fuses		Miniature Fuses
DIMENSIONS	3.1 x 7.4 mm / 4.6 x 11 mm	Ø 6.4 mm	Ø 8.5 mm	5 x 20 mm
				
TYPE	**OSU 125 / 250**	**MSU 125**	**MSU 250**	**FSU**
RATED VOLTAGE	125 VAC/125 VDC	125 VAC / 125 VDC	250 VAC / 63 VDC	250 VAC
RATED CURRENT	0.25 - 3.15A	0.25 - 3.15A	0.25 - 3.15A	0.25 - 3.15A
BREAKING CAPACITY	100A	300A	35 - 50A	35A
CHARACTERISTIC	F	F	T	T

RESETTABLE FUSES

	Surface Mount PTC-Fuses			
DIMENSIONS	3.2 x 1.6 mm	3.2 x 2.6 mm	4.6 x 3.2 mm	5.1 x 4.6 mm
				
TYPE	**PFNF**	**PFUF**	**PFMF**	**PFDF**
RATED VOLTAGE	6 - 30 VDC	6 - 30 VDC	6 - 60 VDC	60 VDC
HOLD CURRENT	0.12 - 2A	0.05 - 1.5A	0.1 - 2.6A	0.55A
MAX CURRENT	10A / 30V - 100A / 6V	10A / 30V - 40A / 6V	Changes with each current	10A / 60V

	Surface Mount PTC-Fuses		Radial Leaded PTC-Fuses	
DIMENSIONS				
				
TYPE	**PFSM**	**PFHT**	**PFRA**	**PFRY**
RATED VOLTAGE	6 - 60 VDC	16 VDC	16 - 60 VDC	72 VDC
HOLD CURRENT	0.3 - 2.6A	1.36 - 1.6A	0.1 - 11A	1.1 - 3.75A
MAX CURRENT	40A / 60V -100A / 6V	100A / 16V	40A / 60V - 100A / 16V	40A / 72V

See pages 14-18 for fuseholders, fuse blocks and fuse clips

See http://www.schurter.com for approval info related to specific products

MOUNTING	Panel mount			
SUITABLE FOR FUSE SIZE	5 x 20 mm			
METHOD OF FASTENING	Fixing nut fastening		Snap-in	Press-fit
				
	Meets the glow wire test according to IEC60335-1			
TYPE	**FPG1**	**FPG2**	**FPG3**	**FPG6**
SOLDER- / QUICK-CONNECT				
TERMINALS	4.8 x 0.5 mm	4.8 x 0.5 mm	4.8 x 0.5 mm	4.8 x 0.5 mm
DEGREE OF PROTECTION	IP 40 / IP 67	IP 40 / IP 67	IP 40	IP 40
RATED VOLTAGE, IEC/UL	250 VAC / 400 VAC	250 VAC / 400 VAC	250 VAC / 400 VAC	250 VAC / 400 VAC
RATED CURRENT, IEC/UL	10A / 16A	10A / 16A	10A / 16A	10A / 16A
*RATED POWER ACCEPTANCE @Ta 23°C	2.5W / 10A	2.5W / 10A	2.5W / 10A	2.5W / 10A

MOUNTING	Panel mount			
SUITABLE FOR FUSE SIZE	5 x 20 mm			
METHOD OF FASTENING	Fixing nut fastening	Snap-in	Fixing nut fastening	Fixing nut fastening
				
TYPE	**FEF**	**FEF**	**FIO / FIN**	**FBS1**
SOLDER- / QUICK-CONNECT				
TERMINALS	2.8 x 0.5 mm	2.8 x 0.5 mm	2.8 x 0.5 mm	4.8 x 0.5 mm
DEGREE OF PROTECTION	IP 40 / IP 54	IP 40	IP 40 / IP 65; IP 67	IP 40
RATED VOLTAGE	250 VAC	250 VAC	250 VAC	250 VAC
RATED CURRENT, IEC/UL	10A	10A	10A	10A
*RATED POWER ACCEPTANCE @Ta 23°C	4W / 10A	4W / 10A	2.5W / 10A	2.5W / 10A

* See Thermal Requirements of a Fuseholder page 92

See http://www.schurter.com for approval info related to specific products

MOUNTING	Panel mount				
SUITABLE FOR FUSE SIZE	5 x 20 mm 6.3 x 32 mm			6.3 x 32 mm	5 x 20 mm 6.3 x 32 mm
METHOD OF FASTENING	Fixing nut fastening				
					
TYPE	**FEU**	**FEU med**	**FEU grip**	**23312P**	**FEC**
SOLDER- / QUICK-CONNECT	Solder/Quick-connect	Solder/Quick-connect	Solder	Solder	Solder/Quick-connect
TERMINALS	4.8 x 0.5 mm	4.8 x 0.5 mm			6.3 x 0.8 mm
DEGREE OF PROTECTION	IP 40	IP 40	IP 40	IP 40	IP 40
RATED VOLTAGE	250 VAC	250 VAC	250 VAC	250 VAC	500 / 250 VAC
RATED CURRENT, IEC/UL	10A / 20A	10A / 20A	10A / 20A	10A	10A / 20A
*RATED POWER ACCEPTANCE @Ta 23°C	4W (5x20) 4W (6.3x32)	4W (5x20) 4W (6.3x32)	4W (5x20) 4W (6.3x32)	2.5W	4W (5x20) 4W (6.3x32)

MOUNTING	Panel mount			Panel mount	Inline
SUITABLE FOR FUSE SIZE	5 x 20 mm	5 x 20 mm / 6.3 x 32 mm	10.3 x 38 mm	5 x 20 mm	5 x 20 mm 6.3 x 32 mm
METHOD OF FASTENING	Fixing nut fastening	Fixing nut fastening	Panel mount front side	Fixing nut fastening	Twist & Lock
					NEW 
TYPE	**FIZ**	**FUL**	**23530P**	**FQE**	**FDI**
SOLDER- / QUICK-CONNECT	Solder/Quick-connect	Solder/Quick-connect	Solder/Quick-connect	Solder	Wires 8"
TERMINALS	6.3 x 0.8 mm	6.3 x 0.8 mm	6.3 x 0.8 mm		
DEGREE OF PROTECTION	IP 40 / IP 67	IP 40 / IP 67	IP 40	IP 40	IP 40
RATED VOLTAGE, IEC/UL	250 VAC / 600 VAC	500 / 600 VAC	600 VAC	250 VAC	32 VAC/VDC
RATED CURRENT, IEC/UL	16A / 30A	16A / 30A	25A	6.3A*	6.3A*
*RATED POWER ACCEPTANCE @Ta 23°C	4W	4W (5X20) 4W (6.3X32)	4.5W	2.5W / 6.3 A	2.5W / 6.3 A

* See Thermal Requirements of a Fuseholder page 92

* without agency approvals

See http://www.schurter.com for approval info related to specific products

MOUNTING	PCB mount			
SUITABLE FOR FUSE SIZE	5 x 20 mm			
METHOD OF FASTENING	Through hole mounting vertical			
				
TYPE	**FPG4****	**FAF**		
TERMINALS	Solder THT	Solder THT		
DEGREE OF PROTECTION	IP 40	IP 40 / IP 54		
RATED VOLTAGE, IEC/UL RATED CURRENT, IEC/UL	250 VAC / 400 VAC 10A / 16A	250 VAC 6.3A / 12A		
*RATED POWER ACCEPTANCE @Ta 23°C	2.5W	2.0W		

** Meets the glow wire test according to IEC60335-1

MOUNTING	PCB mount			
SUITABLE FOR FUSE SIZE	5 x 20 mm			
METHOD OF FASTENING	Through hole mounting horizontal			SMD horizontal
				
TYPE	**FPG5****	**FBS2**	**FAB**	**FPG7***
TERMINALS	Solder THT	Solder THT	Solder THT	Solder SMT
DEGREE OF PROTECTION	IP 40	IP 40	IP 40	IP 40
RATED VOLTAGE, IEC/UL RATED CURRENT, IEC/UL	250 VAC / 400 VAC 10A / 16A	250 VAC 10A	250 VAC 10A / 12A	250 VAC / 400 VAC 10A / 16A
*RATED POWER ACCEPTANCE @Ta 23°C	2.5W	2.5W	2.0W	2.5W

** Meets the glow wire test according to IEC60335-1

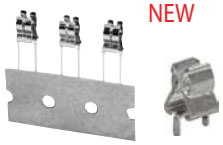
MOUNTING	PCB mount			DIN-Rail mount
SUITABLE FOR FUSE SIZE	5 x 20 mm / 6.3 x 32 mm			10.3 x 38 mm
METHOD OF FASTENING	Through hole mounting horizontal	Through hole mounting vertical	Through hole mounting horizontal / vertical	DIN-Rail 35 mm
				NEW 
TYPE	**FAU**	**FAC**	**FUP / FUA**	**FSO**
TERMINALS	Kicked/Straight/Solder THT	Solder THT	Solder THT	Press Plate
DEGREE OF PROTECTION	IP 40	IP 40	IP 40	IP 20
RATED VOLTAGE, IEC/UL RATED CURRENT, IEC/UL	250 VAC 10A / 16A	250 VAC / 400 VAC 10A / 16A	500 VAC / 600 VAC 16A / 30A	1000 VDC / 600 VDC (UL/CSA), 30A (UL/CSA)
*RATED POWER ACCEPTANCE @Ta 23°C	2.5W (5x20) 3.2W (6.3x32)	2.5W (5x20) 3.2W (6.3x32)	4W (5x20) 4W (6.3x32)	4W (10.3x38)

* See Thermal Requirements of a Fuseholder page 92

See http://www.schurter.com for approval info related to specific products

MOUNTING	Board mount			
SUITABLE FOR FUSE SIZE	5 x 20 mm		6.3 x 32 mm	
METHOD OF FASTENING	Screw or rivet		Screw or rivet	Through hole mounting
				
TYPE	**UH**	**UHB**	**RSH**	**OG**
SOLDER- / QUICK-CONNECT TERMINALS	Solder	Solder	Solder	Solder THT
RATED VOLTAGE, IEC/UL	600 VAC / VDC	250 VAC	250 VAC	250 VAC
RATED CURRENT, IEC/UL	- / 10A	6.3A	- / 16A	- / 16A
*RATED POWER ACCEPTANCE @Ta 23°C	3.2W; 2.5W with cover	3.2W (4A)	3.2W	2.5W

MOUNTING	PCB mount			
SUITABLE FOR FUSE SIZE	5 x 20 mm		5 x 20 mm 6.3 x 32 mm	
METHOD OF FASTENING	SMT	Through hole mounting	Through hole mounting horizontal	Through hole or SMT mounting horizontal
	NEW  Meets the glow wire test according to IEC60335-1			
TYPE	**OGN-SMD**	**OGN**	**OG**	**OGD-SMD / OGD**
RATED VOLTAGE, IEC/UL/CSA	250 VAC / 500 VAC/DC (UL/CSA)		(5x20mm)600 VAC/ DC (UL/CSA) (6.3x32mm) 250 VAC	500 VAC / 600 VAC/DC
RATED CURRENT, IEC/UL	10A		- / 10A	10A / 16A
*RATED POWER ACCEPTANCE @Ta 23°C	4W 2.5W with cover		2.5W; 2.0W with cover	4W

MOUNTING	PCB mount		PCB mount	
SUITABLE FOR FUSE SIZE	5 x 20 mm 6.3 x 32 mm	5 x 20 mm	5 x 20 mm 6.3 x 32 mm	10.3 x 38 mm 10.3 x 85 mm
METHOD OF FASTENING	Through hole mounting horizontal		Through hole mounting horizontal	
	NEW 			
TYPE	**CQM / CQP**	**OG**	**OG**	**231660 / CSO**
RATED VOLTAGE RATED CURRENT, IEC/UL	250 VAC / 600 VAC/DC 6.3A / - (5x20mm); - / 32A (6.3x32mm)	500 VAC/DC - / 6.3A	600 VAC/DC - / 16A	- / 1500 VAC/DC - / 20A; - / 32A
*RATED POWER ACCEPTANCE @Ta 23°C			2.5W	

* See Thermal Requirements of a Fuseholder page 92

See http://www.schurter.com for approval info related to specific products

MOUNTING	PCB mount			
SUITABLE FOR FUSE	172876 / MSB	172876 / MSB	OMF63/OMF125	UMT 250
METHOD OF FASTENING	Through hole mounting	SMT	SMT	PCB, SMT
				
TYPE	**231787**	231786	OMH 125	UMZ 250
TERMINALS	Solder THT			
RATED VOLTAGE RATED CURRENT, IEC/UL	125 VAC/125 VDC	125 VAC/125 VDC	125 VAC - / 5A	250 VAC/125 VAC 0.08 - 4A
*RATED POWER ACCEPTANCE @Ta 23°C	0.9W	0.9W		

MOUNTING	PCB mount			
SUITABLE FOR FUSE	MSF 125	MSF/MST/ MSTU/ MXT 250	MSF 125	FRT 250
METHOD OF FASTENING	Through hole mounting	Through hole mounting	Through hole mounting	Through hole mounting
				
TYPE	**FMS**	**FMS**	**FMR**	**231819**
	Solder THT			
RATED VOLTAGE RATED CURRENT, IEC/UL	125 VAC - / 5A	250 VAC/DC - / 6.3A	125 VAC - / 5A	250 VAC 6.3A

* See Thermal Requirements of a Fuseholder page 92

See http://www.schurter.com for approval info related to specific products

MOUNTING STYLE	Snap-in from front side	Snap-in from back side	Thread neck	Thread neck PA 66 nut	PCB
			Protection Cover TZZ31** for IP65 	NEW 	NEW 
TYPE	**T9-611**	**T9-711**	**T9-311**	**T9-211**	**T9-818**
POLES	1 pole	1 pole	1 pole	1 pole	1 pole
METHOD OF TRIPPING	Thermal	Thermal	Thermal	Thermal	Thermal
RATED CURRENT* / RATED VOLTAGE	3-16 A @240 VAC 3-12 A @48 VDC; 12-16 A @32 VDC				
ENDURANCE	6000 cycles @1.5x I_n I_n = 10A - 16A	6000 cycles @1.5x I_n I_n = 10A - 16A	6000 cycles @1.5x I_n I_n = 10A - 16A	6000 cycles @1.5x I_n I_n = 10A - 16A	6000 cycles @1.5x I_n I_n = 10A - 16A
INTERRUPTING CAPACITY	8x I_n / 2000A	8x I_n / 2000A	8x I_n / 2000A	8x I_n / 2000A	8x I_n / 2000A

**Accessory order separately: 4404.0039

MOUNTING STYLE	Thread neck, Snap-in or Drop-in	Thread neck or Flange	Thread neck or Snap-in	Thread neck or Snap-in	Thread neck or Snap-in
				US only 	
TYPE	**T11**	**T12**	**T13**	**TS-701**	**TS-709**
POLES	1 pole	1 pole	1 pole	1 pole	1 pole
METHOD OF TRIPPING	Thermal	Thermal	Thermal	Thermal	Thermal
RATED VOLTAGE	240 VAC 48 VDC;	240 VAC 28 VDC;	240 / 277 VAC 28 VDC	125 / 250 VAC 50 VDC	125 / 250 VAC 32 VDC
RATED CURRENT	0.05 - 16 A	0.05 - 16 A	0.05 - 30 A	3 - 40 A	3 - 16 A
ENDURANCE	1000 cycles @2x I_n I_n = 0.05 A	5000 cycles @1x I_n	10000 cycles @1x I_n	>500 cycles @1.5x I_n	>500 cycles @1.5x I_n
INTERRUPTING CAPACITY	8x I_n / 96A	8x I_n / 200A / 400A	8x I_n / 400A	200A	200A

See http://www.schurter.com for approval info related to specific products

MOUNTING STYLE	Snap-in		Snap-in	
			NEW 2-pole available w/factory mount anti-bacterial cover CZM25 	
TYPE	**TA 35 Rocker Switch**		**TA 35 Switch with anti-bacterial cover**	**TA 35 Rotary Switch**
POLES	1- or 2-pole	3-pole	1- or 2-pole	3-pole
METHOD OF TRIPPING	Thermal, Rocker Switch		Thermal, Rotary Switch	
RATED VOLTAGE	240 VAC / 32-60 VDC	415Y / 240 VAC	240 VAC / 32-60 VDC	415Y / 240 VAC
RATED CURRENT	0.05A - 20A	0.05A - 12A	0.05A - 20A	0.05A - 12A
ENDURANCE	50000 cycles at In		50000 cycles at In	
INTERRUPTING CAPACITY	6x In (IEC) / 1.5x In (UL)		6x In (IEC) / 1.5x In (UL)	

MOUNTING STYLE	Snap-in	Snap-in or Flange	Snap-in	Snap-in or Flange
				
TYPE	**TA 45**	**TA 45**	**TA 45**	**TA 45**
POLES	2		3	
METHOD OF TRIPPING	Thermal Rocker or Pushbutton Switch			
RATED VOLTAGE	240 VAC / 60 VDC		400 VAC	
RATED CURRENT	0.05A - 20A		0.05A - 12A	
ENDURANCE	50000 cycles at In			
INTERRUPTING CAPACITY	10x In / 300A		10x In	

Accessory: Protection cover

Protection IP 65

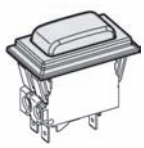
CZM21 (2 pole)

CZM23 (2 pole)

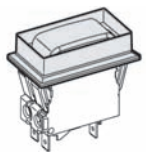
CZZ11 (1 pole)

CZZ21 (2 pole)

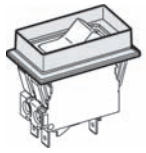
CZZ31 (3 pole)



AZM01 Collar with cover, 2 pole, IP 54

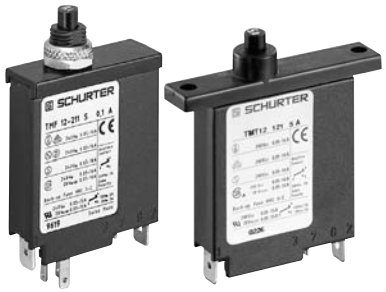


AZM02 Raised collar with cover, 2 pole, IP 54



AZM03 Raised collar, 2 pole, IP 40

See http://www.schurter.com for approval info related to specific products

MOUNTING STYLE	Thread neck or Flange type	Snap-in with DIN-Rail	
			
TYPE	**TM12**	**AS168X**	
POLES	1 pole	1 pole	2-4 pole
METHOD OF TRIPPING	Thermal-magnetic	Thermal-magnetic	
RATED VOLTAGE: AC version DC version	240 VAC 28 VDC	480 VAC / 65 VDC 180 VDC	480 VAC / 65 VDC 360 VDC
RATED CURRENT	0.05A - 16A	0.5A - 52A	
ENDURANCE	5000 cycles at I_n (S-type)	6000 cycles at I_n	
INTERRUPTING CAPACITY	200A @240 VAC / 400A @28 VDC	10kA	

UNDERVOLTAGE PROTECTION

MOUNTING STYLE	Snap-in or Flange		
			
TYPE	**TA45U Rocker / Pushbutton**		
POLES	2 pole	3 pole	
METHOD OF TRIPPING	Undervoltage		
RATED VOLTAGE:	240 VAC / 48 VDC	400 VAC	
RATED CURRENT	0.05 A - 20 A	0.05 A - 12 A	
ENDURANCE	50,000 cycles at I_n		
INTERRUPTING CAPACITY	10 I_n / 300 A	10 I_n / 400 A	

See http://www.schurter.com for approval info related to specific products

RATINGS, IEC/UL	10 A / 15 A @250 V		10 A / 15 A @250 V	
PANEL MOUNTING	Screw-on		Screw-on or Snap-in	
TERMINALS	Quick-connect		Quick-connect	
				
TYPE	**6145 / 5145**		**DF11 / DF12**	
LINE SWITCH	2-pole non-recessed switch		2-pole recessed switch	
FUSEHOLDER				
VOLTAGE SELECTOR				
COMMENT	with circuit breaker TA45 / V-Lock		with circuit breaker TA35 / V-Lock	
TYPE WITH LINE FILTER	5145		DF12	

RATINGS, IEC/UL	10 A / 15 A @250 V	16 A / 20 A @250 V	16 A @250 V; 20 A @125 V / 250 V
PANEL MOUNTING	Snap-in	Snap-in	
TERMINALS	Quick-connect	Quick-connect	Quick-connect
			
TYPE	**6135**	**6136**	**EF11 / EF12**
LINE SWITCH	2-pole	1- pole	2-pole
FUSEHOLDER			
VOLTAGE SELECTOR			
COMMENT	with circuit breaker TA35 / V-Lock	with circuit breaker TA35 / V-Lock	with circuit breaker TA45 / V-Lock
TYPE WITH LINE FILTER			EF12

V-Lock: Equipped with V-Lock notch compatible with mating V-Lock cordset

See http://www.schurter.com for approval info related to specific products

	2 different voltages		6 different voltages	
TYPE OF MOUNTING	Panel mounting	PCB mounting	Panel mounting	PCB mounting
STEP SWITCH				
SERIES-PARALLEL CONNECTIONS	•	•	•	•
				
TYPE	**SWA**		**SWZ**	
6.3 A / 250 V	•	•	•	•
10 A / 250 V			•	•
TERMINALS	solder	PCB	solder & quick connect	PCB

	6 different voltages		3 different voltages	
TYPE OF MOUNTING	Panel mounting			PCB mounting
STEP SWITCH		•	•	•
SERIES-PARALLEL CONNECTIONS	•			
				
TYPE	**SWS**	**SWP**	**SWM**	
6.3 A / 250 V	•	•	•	•
8 A / 250 V		•		
10 A / 250 V	•	•	•	•
TERMINALS	solder or quick connect	solder	solder	PCB
COMMENT	with fuseholder for 5x20mm fuse			

	6 different voltages			
TYPE OF MOUNTING	Panel mounting			
STEP SWITCH	•	•		
SERIES-PARALLEL CONNECTIONS				
				
TYPE	**SWK**	**SWG**		
6.3 A / 250 V	•	•		
10 A / 250 V	•	•		
TERMINALS	solder	solder		
COMMENT	with fuseholder for 5x20mm fuse	with fuseholder for 5x20mm or 6.3x32mm fuse		

Connectors

DC21

IEC appliance connector C14 with line switch 1- or 2-pole

DD11

inlet for front- or rear side mounting

5003

DC-inlet filter, front- or rear side mounting

See http://www.schurter.com for approval info related to specific products

RATINGS, IEC/UL	2.5 A @250 V				
PANEL MOUNTING	Screw-on or Snap-in				
TERMINALS	PCB/Solder/Quick-connect				
					
TYPE	0720 FP 0721 PP	0720 FS 0721 PS	2571 2578	2572 2573	2576
PIN TEMPERATURE	70°C	70°C	70°C	70°C	70°C
PROTECTION CLASS	I I	I I	I I	I I	I I

RATINGS, IEC/UL	2.5 A @250 V				2.5 A / 4 A @250V
PANEL MOUNTING	Screw-on	Screw-o	Screw-on or Snap-in	Screw-on or Drop-in	Screw-on or Drop-in
TERMINALS	Solder/Quick-connect	Solder	PCB/Solder/ Quick-connect	PCB/Solder/ Quick-connect	Solder
					
TYPE	2577	0724	2561 2565	2562 2563	5084 5086
PIN TEMPERATURE	70°C	70°C	70°C	70°C	70°C
PROTECTION CLASS	II	I	I	I	I I

See http://www.schurter.com for approval info related to specific products

RATINGS, IEC/UL	10 A / 15 A @250 V			
PANEL MOUNTING	Screw-on or Snap-in	Snap-in	Screw-on	Screw-on
TERMINALS	Solder/Quick-connect	Solder/Quick-connect/Screw	PCB/Solder/Quick-connect/Screw	Solder/Quick-connect/Screw
				
TYPE	**6100-3*† / 6100-4* 6102-3*† / 6102-5***	**6010 6015**	**6061 6061-G**	**8843-ZP30 6048**
PIN TEMPERATURE	70°C	70°C	70°C	70°C
COMMENT		V-Lock (6010)	V-Lock	
PROTECTION CLASS	I or II	I or II	I	I

RATINGS IEC/UL	10 A / 15 A @250 V			
PANEL MOUNTING	Screw-on or Snap-in	Screw-on or Snap-in		
TERMINALS	Solder/Quick-connect	Solder/Quick-connect		
				
TYPE	**0164 6110-3* † 6110-4***	**6120-3* † 6120-5***		
PIN TEMPERATURE	120°C	155°C		
COMMENT				
PROTECTION CLASS	I	I		

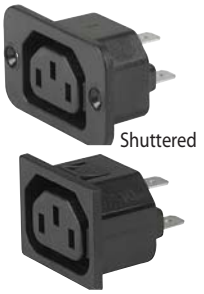
* Meets the glow wire test according to IEC60335-1, suffix ref .15 (xxxx.xxxx.15)
† Sealing kit available
V-Lock: Equipped with V-Lock notch compatible with mating V-Lock cordset

See http://www.schurter.com for approval info related to specific products

RATINGS, IEC/UL	10 A / 15 A @250 V			
PANEL MOUNTING	Snap-in	Screw-on	Sandwich or rear	
TERMINALS	PCB	PCB or Solder/Quick-connect	PCB	
				
TYPE	**6130-56***	**GSP 1**	**GSP2**	
PIN TEMPERATURE	70°C	70°C	70°C	
COMMENT	V-Lock	V-Lock	V-Lock	
PROTECTION CLASS	I	I or II	I or II	

* Meets the glow wire test according to IEC60335-1, suffix ref .15 (xxxx.xxxx.15)
V-Lock: Equipped with V-Lock notch compatible with mating V-Lock cordset

See http://www.schurter.com for approval info related to specific products

RATINGS IEC/UL	10 A / 15 A @250 V			
PANEL MOUNTING	Screw-on or Snap-in		Screw-on	Snap-in
TERMINALS	Solder/Quick-connect		PCB	IDC-connect
				
TYPE	6600-3* 6600-4*	4721 4723	5001	IDC 6610
PIN TEMPERATURE	70°C	70°C	70°C	70°C
COMMENT	V-Lock			V-Lock
PROTECTION CLASS	I	I	I or II	I

* Meets the glow wire test according to IEC60335-1, suffix ref .15 (xxxx.xxxx.15)

RATINGS, IEC/UL	16 A / 20 A @250 V	10 A / 15 A @250 V	15 A @125 V / 250 V (UL/CSA)	
PANEL MOUNTING	Screw-on or Snap-in	Screw-on	Snap-in	Snap-in
TERMINALS	Solder/Quick-connect	Solder/Quick-connect/ PCB	Solder	Solder/Quick-connect/IDC
				
TYPE	4787 4788	5091 5092	0715	0709 / 0709-1 / 0710
PIN TEMPERATURE	70°C	70°C	70°C	70°C
COMMENT				
PROTECTION CLASS	I	I or II	II	I

RATINGS, IEC/UL	10 A @250 V			
PANEL MOUNTING	Snap-in / front-side			
TERMINALS	Solder			
				
TYPE	4719			
FUSEHOLDER	5X20 / 1-pole			
COMMENT	Outlet shuttered / with or without neon indicator			

V-Lock: Equipped with V-Lock notch compatible with mating V-Lock cordset

See http://www.schurter.com for approval info related to specific products

RATINGS, IEC/UL	16 A / 20 A @250 V	16 A / 21 A @250 V		16 A / 20 A @250 V
PANEL MOUNTING	Screw-on or Snap-in		Screw-on or Sandwich	Screw-on or Snap-in
TERMINALS	Solder/Quick connect/Screw		PCB	Solder/Quick-connect
			NEW 	NEW 
TYPE	4793* / 4798* 4797*	1621 1624	1601 GSP4	1681
PIN TEMPERATURE	70°C	70°C	70°C	155°C
COMMENT	V-Lock	V-Lock	V-Lock (GSP4)	
PROTECTION CLASS	I or II	I or II	I or II	I or II

* Meets the glow wire test according to IEC60335-1, suffix ref .15 (xxxx.xxxx.15)

RATINGS, IEC/UL	16 A / 21 A @250 V	16 A / 20 A @250 V	16 A / 20 A @250 V	
PANEL MOUNTING	Screw-on or Snap-in	Snap-in	Screw-on	
TERMINALS	Quick-connect	IDC	Quick-connect	Plug & Connector
		NEW 		 Inlet / Outlet-module
TYPE	5213 5216	4710	5017	4730
PIN TEMPERATURE	70°C	70°C	70°C	70°C
COMMENT		V-Lock		
PROTECTION CLASS	I	I	I	I

V-Lock: Equipped with V-Lock notch compatible with mating V-Lock cordset

See http://www.schurter.com for approval info related to specific products

RATINGS, IEC/UL	10 A / 15 A @250 V	10 A / 15 A @250 V	10 A / 15 A @125 V / 250 V	10 A / 15 A @250 V
PANEL MOUNTING	Snap in / front-side	Snap in / front-side	Snap in / front-side	Screw-on / front-side
TERMINALS	Solder	Solder/Quick-connect	Solder/PCB/Quick-connect	Solder/Quick-connect
		 with cover on the rear side  with carrier frame for accessory modules	 Inlet and outlet   **KPF** Filter for backpack mounting to KP	 
TYPE	0909	4752 / 4754 / 4758	0712 / KP	1050 / 1051
PIN TEMPERATURE	70°C	70°C	70°C	70°C
COMMENT			V-Lock (KP)	
PROTECTION CLASS	I	I	I	I

RATINGS, IEC/UL	10 A / 15 A @250 V		
MOUNTING	Fully encased power strips / outlets		
TERMINALS	Power cord / Plug	Line	Plug
	Versions with - 6 outlets or - 5 outlets, 1 fuseholder 1-pole and 1 neon lamp, 1-pole or - 5 outlets, 1 line switch (rocker) illuminated  Outlets shuttered 	 	  Outlets shuttered
TYPE	4740	4747 / 4748	4741
PIN TEMPERATURE	70°C	70°C	70°C
PROTECTION CLASS	I	I	I

V-Lock: Equipped with V-Lock notch compatible with mating V-Lock cordset

See http://www.schurter.com for approval info related to specific products

RATINGS, IEC/UL	10 A @ 250 V		10 A @ 250 V	
PANEL MOUNTING	Screw-on or Snap-in	Screw-on or Snap-in	Screw-on Snap-in / front side	Screw-on or Snap-in
TERMINALS	Solder/Quick-connect		Quick-connect	Solder/Quick-connect/PCB
				
TYPE	**6200 / 6202 / 6205**	**1062 / 1062-B 1064**	**KEA**	**6220 6250 / 6255**
LINE SWITCH				2-pole
FUSEHOLDER	5x20 / 1-pole	5x20 / 1- or 2- pole	5x20 / 1-or 2-pole	5x20 / 1- or 2-pole
*RATED POWER ACCEPTANCE @Ta 23°C	2.0W	-	2.0W (1-pole), 1.6W (2-pole)	2.0W (1-pole), 1.6W (2-pole)
VOLTAGE SELECTOR			Step	
COMMENT			V-Lock	
TYPE WITH LINE FILTER			KFA	5220

RATINGS, IEC/UL	10 A @250 V	10 A / 6 A @250 V	10 A @125 V / 250V	
PANEL MOUNTING	Screw-on	Screw-on	Snap-in	
TERMINALS	Solder/Quick-connect	Quick-connect	Quick-connect	
				
TYPE	**4707**	**8842 / 8843**	**GSF2**	
LINE SWITCH				
FUSEHOLDER	5x20 / 1-or 2-pole	5x20 / 1-or 2-pole	5x20 / 1-or 2-pole	
*RATED POWER ACCEPTANCE @Ta 23°C	1.6W (1-pole), 1.6W (2-pole) per pole	1.6W (1-pole), 1.2W (2-pole) per pole	3.15W (1-pole), 2.5W (2-pole) per pole	
VOLTAGE SELECTOR				
COMMENT	V-Lock		Fuse on rear-side / V-Lock	
TYPE WITH LINE FILTER	5707			

V-Lock: Equipped with V-Lock notch compatible with mating V-Lock cordset

* See Thermal Requirements of a Fuseholder page 92

See http://www.schurter.com for approval info related to specific products

RATINGS, IEC/UL	10 A @250 V	10 A @125 V / 250 V	10 A @250 V	
PANEL MOUNTING	Screw-on Snap-in / front-side	Sandwich or rear-side	Sandwich or rear-side	
TERMINALS	PCB	PCB	PCB	
		 Inlet and fuseholder  **KPF** Filter for backpack mounting to KP	 	
TYPE	**KEA-Print**	**KP**	**GSF1**	
LINE SWITCH				
FUSEHOLDER	5x20 / 1-or 2-pole	5x20 / 1- or 2-pole	5x20 / 1- or 2- pole	
*RATED POWER ACCEPTANCE @Ta 23°C	2.0W (1-pole), 1.6W (2-pole) per pole	2.0W (1-pole), 1.6W (2-pole) per pole	3.15W (1-pole), 2.5W (2-pole) per pole	
VOLTAGE SELECTOR				
COMMENT		V-Lock	Fuse on rear-side / V-Lock	
TYPE WITH LINE FILTER	DA22			

V-Lock: Equipped with V-Lock notch compatible with mating V-Lock cordset

* See Thermal Requirements of a Fuseholder page 92

See http://www.schurter.com for approval info related to specific products

RATINGS, IEC/UL	10 A @250 V / 13 A @ 125 V		10 A @250 V / 125 V	
PANEL MOUNTING	Screw-on	Snap-in / front-side	Screw-on	Snap-in / front-side
TERMINALS	Quick-connect		Quick-connect	
				
TYPE	**KEC**		**KE**	
LINE SWITCH				
FUSEHOLDER	5x20 or 6.3x32 / 1-or 2-pole		5x20 or 6.3x32 / 1- or 2-pole	
*RATED POWER ACCEPTANCE @Ta 23°C	5x20: 2.5W (1-pole), 2.0W (2-pole) per pole 6.3x32: 3.15W (1-pole), 2.5W (2-pole) per pole		5x20: 2.5W (1-pole), 2.0W (2-pole) per pole 6.3x32: 3.15W (1-pole), 2.5W (2-pole) per pole	
VOLTAGE SELECTOR	Step		Series / Parallel	
COMMENT	V-Lock		V-Lock	
TYPE WITH LINE FILTER	KFC		CE	

RATINGS, IEC/UL	10 A @250 V; 15 A @125 V / 250 V	10 A @125 V / 250 V	
PANEL MOUNTING	Snap-in / front-side	Snap-in / front-side	
TERMINALS	PCB	Solder/Quick-connect	
			
TYPE	**6050**	**FELCOM 64**	
LINE SWITCH	2-pole		2-pole
FUSEHOLDER		5x20 / 1- or 2-pole	
*RATED POWER ACCEPTANCE @Ta 23°C		2.0W (1-pole), 1.6W (2-pole) per pole	
VOLTAGE SELECTOR			
COMMENT	Fits to Felcom		
TYPE WITH LINE FILTER		54 FELCOM	

V-Lock: Equipped with V-Lock notch compatible with mating V-Lock cordset

* See Thermal Requirements of a Fuseholder page 92

See http://www.schurter.com for approval info related to specific products

RATINGS, IEC/UL	2.5 A @250 V / 6 A @125 V	10 A / 15 A @250 V	10 A* @250 V *15 A version available for DC11	10 A @250 V / 11 A @125 V
PANEL MOUNTING		PCB	Screw-on or Snap-in / front-side	Screw-on / rear-side
TERMINALS	PCB	Quick-connect	Quick-connect	PCB
		 **KPF** Filter for backpack mounting to KP		
TYPE	**CMF 1/4, 2/5, 3/6**	**KP Switch**	**DC 11 / KEB I**	**DC21**
LINE SWITCH	1-pole	1- or 2-pole	1- or 2-pole	2-pole
FUSEHOLDER				
VOLTAGE SELECTOR				
COMMENT		V-Lock	V-Lock (DC11)	Illuminated or non-illuminated / V-Lock
TYPE WITH LINE FILTER		KPF	DC12 / KFB I	DC22

RATINGS, IEC/UL	10 A / 6 A @250 V	10 A / 15 A @250 V		
PANEL MOUNTING	Snap-in	Screw-on Snap-in / front-side		
TERMINALS	Solder/Quick-connect	Quick-connect		
				
TYPE	**1074**	**KEB II**		
LINE SWITCH	1-pole	2-pole		
FUSEHOLDER				
VOLTAGE SELECTOR				
COMMENT				
TYPE WITH LINE FILTER		KFB II		

V-Lock: Equipped with V-Lock notch compatible with mating V-Lock cordset

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RATINGS, IEC/UL	10 A @250 V	10 A / 8 A @250 V	10 A @250 V / 125 V
PANEL MOUNTING	Snap-in / front-side	Screw-on / front or rear-side	Screw-on / rear-side
TERMINALS	Quick-connect	Quick-connect	PCB
			
TYPE	**KM**	**DD11**	**DD21**
LINE SWITCH	1- or 2-pole	2-pole rocker switch	2-pole rocker switch
FUSEHOLDER	5x20 / 1- or 2-pole	5x20 / 1- or 2-pole	5x20 / 1- or 2-pole
*RATED POWER ACCEPTANCE @Ta 23°C	2.0W (1-pole), 1.4W (2-pole) per pole	2.0W (1-pole), 1.6W (2-pole) per pole	
VOLTAGE SELECTOR			
COMMENT			
TYPE WITH LINE FILTER	KMF	DD12	DD22

RATINGS, IEC/UL	10 A @250 V	6 A @250 V / 8 A @125 V	10 A @250 V / 125 V	10 A @250 V / 125 V
PANEL MOUNTING	Screw-on	Screw-on or Snap-in	Screw-on or Snap-in / front-side	Screw-on or Snap-in
TERMINALS	Solder/Quick-connect	Quick-connect	Quick-connect	Quick-connect
				
TYPE	**6765 / 6762**	**KD / KG Bowden**	**KD**	**KG**
LINE SWITCH	2-pole	Types KD and KG with line switch for Bowdencable	1- or 2-pole	1- or 2-pole
FUSEHOLDER	5x20 / 1- or 2-pole		5x20 or 6.3x32 / 1- or 2-pole	5x20 or 6.3x32 / 1- or 2-pole
*RATED POWER ACCEPTANCE @Ta 23°C	-			
VOLTAGE SELECTOR			Step	Series / Parallel
COMMENT		V-Lock	V-Lock	V-Lock
TYPE WITH LINE FILTER		CD / CG	CD	CG

V-Lock: Equipped with V-Lock notch compatible with mating V-Lock cordset

* See Thermal Requirements of a Fuseholder page 92

See http://www.schurter.com for approval info related to specific products

RATINGS, IEC/UL	10 A / 15 A @250 V		10 A / 15 A @250 V
PANEL MOUNTING	Screw-on	Screw-on or Snap-in	Snap-in
TERMINALS	Quick-connect	Quick-connect	Quick-connect
			
TYPE	**6145**	**DF11**	**6135**
LINE SWITCH	2-pole non-recessed switch	2-pole recessed switch	2-pole
FUSEHOLDER			
VOLTAGE SELECTOR			
COMMENT	with circuit breaker TA45 / V-Lock		with circuit breaker TA35 / V-Lock
TYPE WITH LINE FILTER	5145	DF12	

RATINGS, IEC/UL	16 A / 20 A @250 V		16 A @250 V; 20 A @125 V / 250 V
PANEL MOUNTING	Screw-on or Snap-in	Snap-in	
TERMINALS	Quick-connect	Quick-connect	Quick-connect
			
TYPE	**EC11**	**6136**	**EF11**
LINE SWITCH	1- or 2-pole	1-pole	2-pole
FUSEHOLDER			
VOLTAGE SELECTOR			
COMMENT	V-Lock	with circuit breaker TA35 / V-Lock	with circuit breaker TA45 / V-Lock
TYPE WITH LINE FILTER	EC12		EF12

V-Lock: Equipped with V-Lock notch compatible with mating V-Lock cordset

See http://www.schurter.com for approval info related to specific products

	IEC/EN 60320-1 / C13, Protection Class I			
RATINGS, IEC/UL	**10 A @250 V; 10 A / 15 A @250 V**	**10 A / 15 A @250 V**	**10 A @ 250V 10 A / 15 A @250 V**	**10 A / 15 A @250 V**
				
TYPE	**4732 / 4735 4733 / 4736**	**4022 4782 4785**	**P685 4300-06**	**4781 4784**
PLUG	70°C	70°C	70°C	120°C
STANDARD	I	I	I	I
CORD TYPE	18 - 14 AWG	16 - 18 AWG (4022) 18 - 14 AWG	18 AWG	18 - 14 AWG
LENGTH/COLOR				

RATINGS IEC/UL	**16 A / 20 A @250 V IEC / UL**	**16 A / 21 A @250 V**	**16 A / 20 A @250 V IEC / UL**	**16 A / 21 A @250 V BSA**
				
TYPE	**0921 0922**	**4796 4795**	**4789 4790**	**1658 1659**
PIN TEMPERATURE	70°C	120°C	70°C	155°C
PROTECTION CLASS	I	I	I	I
COMMENT	12 AWG	14 AWG	16 - 14 AWG	Screw

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CONNECTOR	IEC/EN 60320-1 / C13, Protection Class I			
RATINGS, IEC UL	10 A @125 V	10 A @125 V	10 A @125 V	13 A @125 V
	NEW V-Lock 	NEW V-Lock 	NEW V-Lock 	NEW V-Lock 
TYPE	**6051.2061**	**6051.2001**	**6051.2081**	**6051.2121**
PLUG	North America	North America	North America	North America
STANDARD	NEMA 5-15	NEMA 5-15	NEMA 5-15	NEMA 5-15
CORD TYPE	SJT 3x18 AWG	SJT 3x18 AWG	SJT 3x18 AWG	SJT 3x16 AWG
LENGTH / COLOR	1.5 m / black	2.0 m / black	3.0 m / black	3.0 m / white

CONNECTOR	IEC/EN 60320-1 / C13, Protection Class I			
RATINGS, IEC UL	10 A @250 V	10 A @250 V	10 A @250 V	10 A @250 V
	NEW V-Lock 	NEW V-Lock 	NEW V-Lock 	NEW V-Lock 
TYPE	**6051.2063**	**6051.2003**	**6051.2083**	**6051.2093**
PLUG	Europlug	Europlug	Europlug	Europlug
STANDARD	CEE 7 / VII	CEE 7 / VII	CEE 7 / VII	CEE 7 / VII
CORD TYPE	H05VV-F3G0.75	H05VV-F3G1.0	H05VV-F3G1.0	H05VV-F3G1.0
LENGTH / COLOR	1.5 m / black	2.0 m / black	3.0 m / black	3.0 m / black

CONNECTOR	IEC/EN 60320-1 / C13, Protection Class I			
RATINGS, IEC UL	10 A @250 V 10 A @125 V	10 A @250 V	10 A @250 V	10 A @250 V
	NEW V-Lock 	NEW V-Lock 	NEW V-Lock 	NEW V-Lock 
TYPE	**6051.2068**	**6051.2008**	**6051.2015**	**6051.2077**
PLUG	United Kingdom	United Kingdom	Switzerland	Italy
STANDARD	BS 1363	BS 1363	SEV 1011	CEI 23-50
CORD TYPE	H05VV-F3G0.75	H05VV-F3G1.0	H05VV-F3G1.0	H05VV-F3G0.75
LENGTH / COLOR	1.5 m / black	2.0 m / black	2.5 m / black	1.5 m / black

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CONNECTOR	IEC/EN 60320-1 / C13, Protection Class I			
RATINGS, IEC UL	10 A @125 V	10 A @125 V	7 A / 125V	12 A @125 V
	NEW V-Lock 	NEW V-Lock 	NEW V-Lock 	NEW V-Lock 
TYPE	6051.2072	6051.2032	6051.2071	6051.2031
PLUG	China	China	Japan	Japan
STANDARD	GB 2099	GB 2099	JIS 8303	JIS 8303
CORD TYPE	RVV 300/500 3x0.75	RVV 300/500 3x1.0	VCTF 3x0.75	VCTF 3x1.25
LENGTH / COLOR	1.5 m / black	2.0 m / black	1.5 m / black	2.0 m / black

CONNECTOR	IEC/EN 60320-1 /C13, Protection Class I			
RATINGS, IEC UL	10 A @250 V	10 A @250 V	10 A @250 V	10 A @250 V
	NEW V-Lock 	NEW V-Lock 	NEW V-Lock 	NEW V-Lock 
TYPE	6051.2070	6051.2030	6051.2078	6051.2016
PLUG	Australia	Australia	South Africa	Brazil
STANDARD	AS 3112	AS 3112	SANS 164-1	NBR 14136
CORD TYPE	H05VV-F3G0.75	H05VV-F3G1.0	H05VV-F3G0.75	H05VV-F3G1.0
LENGTH / COLOR	1.5 m / black	2.0 m / black	1.5 m / black	2.5 m / black

CONNECTOR	IEC/EN 60320-1 /C13, Protection Class I			
RATINGS, IEC UL	10 A @250 V	10 A @250 V	10 A @250 V	10 A @250 V 10 A @125 V
	NEW V-Lock 	NEW V-Lock 	NEW V-Lock 	NEW V-Lock 
TYPE	6051.2027 / 6051.2037	6051.2067	6051.2007	6051.2009 / 6051.2089
PLUG	Interconnection	Interconnection	Interconnection	Uninsulated wires
STANDARD	IEC 60320-2-2	IEC 60320-2-2	IEC 60320-2-2	-
CORD TYPE	H05VV-F3G0.75	H05VV-F3G0.75	H05VV-F3G1.0 / SJT 3x14 AWG	H05VV-F3G1.0
LENGTH / COLOR	1.2 m black / 0.6 m black	1.5 m / black	2.0 m / black	2.0 m black / 3.0 m black

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	IEC/EN 60320-1 /C19, Protection Class I			
RATINGS, IEC UL	**15 A @125 V**	**15 A @125 V**	**16 A @250 V**	**16 A @250 V**
	NEW V-Lock 	NEW V-Lock  Hospital Grade	NEW V-Lock 	NEW V-Lock 
TYPE	**6051.2041**	**6051.2131**	**6051.2043**	**6051.2103**
PLUG	North America	North America	Europlug	Europlug
STANDARD	NEMA 5-15P	NEMA 5-15P	CEE 7 / VII	CEE 7 / VII
CORD TYPE	SJT 3x14 AWG	SJT 3x14 AWG	H05VV-F3G1.5	H05VV-F3G1.5
LENGTH / COLOR	2.0 m / black	3.0 m / white	2.0 m / black	3.0 m / black

	IEC/EN 60320-1 /C19, Protection Class I			
RATINGS, IEC UL	**16 A @250 V**	**13 A @250 V**	**16 A @250 V**	**15 A @125 V**
	NEW V-Lock 	NEW V-Lock 	NEW V-Lock 	NEW V-Lock 
TYPE	**6051.2123**	**6051.2048**	**6051.2052**	**6051.2051**
PLUG	Europlug	United Kingdom	China	Japan
STANDARD	CEE 7 / VII	BS 1363	GB 2099	JIS 8303
CORD TYPE	H05VV-F3G1.5	H05VV-F3G1.5	RVV 300/500 3x1.5	VCTF 3x2.0
LENGTH / COLOR	6.0 m / black	2.0 m / black	2.0 m / black	2.0 m / black

	IEC/EN 60320-1 /C19, Protection Class I			
RATINGS, IEC UL	**16 A @250 V**	**16 A @250 V**	**16 A @250 V**	**16 A @250 V**
	NEW V-Lock 	NEW V-Lock 	NEW V-Lock 	NEW V-Lock 
TYPE	**6051.2050**	**6051.2047**	**6051.2109**	**6051.2129**
PLUG	Australia	Interconnection	Uninsulated wires	Uninsulated wires
STANDARD	AS 3112	IEC 60320-2-2	-	-
CORD TYPE	H05VV-F3G1.5	H05VV-F3G1.5	H05VV-F3G1.5	H05VV-F3G1.5
LENGTH / COLOR	2.0 m / black	2.0 m / black	3.0 m / black	6.0 m / black

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	IEC/EN 60320-1 / C13, Protection Class I		C13, Protection Class I	C19, Protection Class I
RATINGS, IEC UL	**10 A @125 V**	**10 A @125 V**	**10 A @125 V**	**15 A @125 V**
			 Hospital Grade	 Hospital Grade
TYPE	**6009.1214 / 6009.1315**	**6009.1204**	**4300.0920**	**0888.0221**
PLUG	North America	North America	North America	North America
STANDARD	NEMA 1-15	NEMA 5-15	NEMA 5-15	NEMA 5-15
CORD TYPE	SVT/SJT 3x18 AWG	SVT 3x18 AWG	SJT 3x18 AWG	SJTW 3x14 AWG
LENGTH / COLOR	2.0 m black / 2.5 m black	2.0 m / black	3.0 m / transparent	3.0 m / transparent

	C19, Protection Class I	C21, Protection Class I	C5, Protection Class I	IEC/EN 60320-1 /C17, Protection Class II
RATINGS, IEC UL	**15 A @125 V**	**16 A @125 V**	**7 A @125 V**	**7 A @125 V**
				
TYPE	**6009.5195**	**6051.5002**	**6052.0043**	**6052.0048**
PLUG	North America	North America	North America	North America
STANDARD	NEMA 5-15	NEMA 1-15	NEMA 5-15	NEMA 1-15
CORD TYPE	SJT 3x14 AWG	SJT 3x14 AWG	SVT 3x18 AWG	SVT 2x18 AWG
LENGTH / COLOR	2.5 m / black	2.5 m / black	1.8 m / black	2.5 m / black

	IEC/EN 60320-1 /C7p, Protection Class II			IEC/EN 60320-1 /C7p, Protection Class II
RATINGS, IEC UL	**7 A @125 V**			**7 A @125 V**
	 2576 / 2578 inlets	 cordsets	 Kit including cordset, inlet & retaining clip	
TYPE	**6010.5274 / 6010.5278**			**6052.0047**
PLUG	North America			North America
STANDARD	NEMA 1-15			NEMA 1-15 polarized
CORD TYPE	SVT 2x18 AWG			SVT 2x18 AWG
LENGTH / COLOR	2.0 m / black, 4.0 m / black			2.5 m / black

See pages 38-40 for V-Lock versions

See http://www.schurter.com for approval info related to specific products

	IEC/EN 60320-1 / C13, Protection Class I			
RATINGS, IEC UL	**10 A @250 V**	**10 A @250 V**	**10 A @250 V**	**10 A @250 V**
				
TYPE	**6004.0114**	**6004.0215**	**6003.0215**	**6051.0025**
PLUG	Europlug	Europlug	Europlug	Europlug
STANDARD	CEE 7 / VII	CEE 7 / VII	CEE 7 / VII	CEE 7 / VII
CORD TYPE	H05VV-F3G1.0	H05VV-F3G1.0	H05VV-F3G1.0	H05VV-F3G1.0
LENGTH / COLOR	2.0 m / black	2.5 m / black	2.5 m / black	2.5 m / black

	IEC/EN 60320-1 / C13, Protection Class I	C7, Protection Class II	C19, Protection Class I	C21, Protection Class I
RATINGS, IEC UL	**10 A @250 V**	**10 A @250 V**	**16 A @250 V**	**16 A @250 V**
				
TYPE	**6051.0047**	**6052.0039**	**6004.0395**	**6052.5001**
PLUG	Europlug	Europlug	Europlug	Europlug
STANDARD	CEE 7 / VII	CEE 7 / XVII / DIN 49406	CEE 7 / VII	CEE 7/VII
CORD TYPE	H05VV-F3G1.0	H05VV-F2G1	H05VV-F3G1.5	H05VV-F3G1.5
LENGTH / COLOR	2.5 m / grey	2.5 m / black	2.5 m / black	2.5 m / black

	C5, Protection Class I	C17, Protection Class II	IEC/EN 60320-1 /C13, Protection Class I	
RATINGS, IEC UL	**2.5 A @250 V**	**2.5 A @250 V**	**10 A @250 V**	**10 A @250 V**
				
TYPE	**6052.0042**	**6013.0474**	**6044.0215**	**6043.0114**
PLUG	Europlug	Europlug	United Kingdom	United Kingdom
STANDARD	CEE 7 / VII	IEC 60884-1 / EN 50075	BS 1363	BS 1363
CORD TYPE	H05VV-F3G0.75	H03VVH2-F	H05VV-F3G1.0	H05VV-F3G0.75
LENGTH / COLOR	2.0 m / black	2.0 m / black	2.5 m / black	2.0 m / black

See pages 38-40 for V-Lock versions

See http://www.schurter.com for approval info related to specific products

	IEC/EN 60320-1 /C13, Protection Class I			C13, Protection Class I
RATINGS, IEC UL	**10 A @250 V**	**10 A @250 V**	**10 A @250 V**	**7 A @125 V**
				
TYPE	**6044.0204**	**6026.0215**	**6011.0215**	**6047.6414**
PLUG	United Kingdom	Italy	Switzerland	Japan
STANDARD	BS 1363	CEI 23-16 / VII	SEV 1011	JIS 8303
CORD TYPE	H05VV-F3G1.0	H05VV-F3G1.0	H05VV-F3G1.0	HVCTF3G0.75
LENGTH / COLOR	2.5 m / black	2.5 m / black	2.5 m / black	2.0 m / black

	IEC/EN 60320-1 /C13, Protection Class I		C14, Protection Class I	C21, Protection Class I
RATINGS, IEC UL	**10 A @250 V**	**10 A @250 V**	**10 A @250 V**	**16 A @250 V**
				
TYPE	**6007.0212**	**6007.0214**	**6007.0204**	**6051.5003**
PLUG	Interconnection	Interconnection	Interconnection	Interconnection
STANDARD	IEC/EN 60320-2-2/E	IEC/EN 60320-2-2/E	IEC/EN 60320-2-2/E	IEC 60320-2-23
CORD TYPE	H05VV-F3G1.0	H05VV-F3G1.0	H05VV-F3G1.0	H05VV-F3G1.5
LENGTH / COLOR	1.0 m / black	2.0 m / black	2.0 m / black	2.0 m / black

	IEC/EN 60320-1 /C13, Protection Class I			
RATINGS, IEC UL	**10 A @250 V**	**10 A @250 V**		
				
TYPE	**6000.0224**	**6000.0214**		
PLUG	Uninsulated wires	Uninsulated wires		
STANDARD	-	-		
CORD TYPE	H05VV-F3G1.0	H05VV-F3G1.0		
LENGTH / COLOR	2.0 m / black	2.0 m / black		

See pages 38-40 for V-Lock versions

See http://www.schurter.com for approval info related to specific products

RATINGS	2 A @ 12 V AC/DC	2 A @ 12 V AC/DC	2 A @ 12 V AC/DC	2 A @ 12 V AC/DC
DESCRIPTION	Data & Signal	Data & Signal	Data & Signal	Data & Signal
SIZE / POLES	6.3 mm; 2-pole	6.3 mm; 2-pole	6.3 mm; 2-pole	6.3 mm; 3-pole
				
TYPE	4803.1200	4803.1210	4803. 1220	4803.1300
CONNECTOR	Plug	Plug	Plug	Plug
HOUSING	Screened	Insulated	Insulated	Screened

RATINGS	2 A @ 12 V AC/DC	2 A @ 12 V AC/DC	2 A @ 12 V AC/DC	2 A @ 12 V AC/DC
DESCRIPTION	Data & Signal	Data & Signal	Data & Signal	Data & Signal
SIZE / POLES	6.3 mm; 3-pole	6.3 mm; 3-pole	6.3 mm; 2-pole	6.3 mm; 2-pole
				
TYPE	4803.1310	4803.1320	4803. 2200	4803.2210
CONNECTOR	Plug	Plug	Socket	Socket
HOUSING	Insulated	Insulated	Screened	Insulated

RATINGS	2 A @ 12 V AC/DC	2 A @ 12 V AC/DC	2 A @ 12 V AC/DC	2 A @ 12 V AC/DC
DESCRIPTION	Data & Signal	Data & Signal	Data & Signal	Data & Signal
SIZE / POLES	6.3 mm; 2-pole	6.3 mm; 2-pole	6.3 mm; 3-pole	6.3 mm; 3-pole
				
TYPE	4803.2220	4803.2230	4803. 2300	4803. 2310
CONNECTOR	Socket	Socket	Socket	Socket
HOUSING	Screened	Insulated	Screened	Insulated

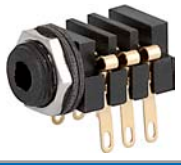
RATINGS	2 A @ 12 V AC/DC	2 A @ 12 V AC/DC	2 A @ 12 V AC/DC	2 A @ 12 V AC/DC
DESCRIPTION	Data & Signal	Data & Signal	Data & Signal	Data & Signal
SIZE / POLES	6.3 mm; 3-pole	6.3 mm; 3-pole	6.3 mm; 2-pole	6.3 mm; 3-pole
				
TYPE	4803.2320	4803.2330	4803. 3200	4803.3300
CONNECTOR	Socket	Socket	Line Socket	Line Socket
HOUSING	Screened	Insulated	Screened	Screened

See http://www.schurter.com for approval info related to specific products

RATINGS	1 A @ 12 V AC/DC	1 A @ 12 V AC/DC	1 A @ 12 V AC/DC
DESCRIPTION	Data and Signal	Data and Signal	Data and Signal
SIZE / POLES	3.5 mm; 2-pole	3.5 mm; 2-pole	3.5 mm; 2-pole
			
TYPE	**4802.1200**	**4802.1210**	**4802.1230**
CONNECTOR	Plug	Plug	Plug
HOUSING	Screened	Insulated	Screened

RATINGS	1 A @ 12 V AC/DC	1 A @ 12 V AC/DC	1 A @ 12 V AC/DC
DESCRIPTION	Data and Signal connectors	Data and Signal connectos	Data and Signal connectos
SIZE / POLES	3.5 mm; 3-pole	3.5 mm; 3-pole	3.5 mm; 2-pole
			
TYPE	**4802.1300**	**4802.1310**	**4802.2200**
CONNECTOR	Plug	Plug	Socket
HOUSING	Screened	Insulated	Screened

RATINGS	1 A @ 12 V AC/DC	1 A @ 12 V AC/DC	1 A @ 12 V AC/DC
DESCRIPTION	Data and Signal	Data and Signal	Data and Signal
SIZE / POLES	3.5 mm; 2-pole	3.5 mm; 2-pole	3.5 mm; 2-pole
			
TYPE	**4802.2210**	**4802.2220**	**4802.2230**
CONNECTOR	Socket	Socket	Socket
HOUSING	Insulated	Screened	Insulated

RATINGS	1 A @ 12 V AC/DC	1 A @ 12 V AC/DC	1 A @ 12 V AC/DC
DESCRIPTION	Data and Signal	Data and Signal	Data and Signal
SIZE / POLES	3.5 mm; 3-pole	3.5 mm; 3-pole	3.5 mm; 3-pole
			
TYPE	**4802.2300**	**4802.2310**	**4802.2320 / 4802.2330**
CONNECTOR	Socket	Socket	Socket
HOUSING	Screened	Insulated	Screened/Insulated

See http://www.schurter.com for approval info related to specific products

RATINGS	1 A @ 12 V AC/DC	1 A @ 12 V AC/DC	1 A @ 12 V AC/DC
DESCRIPTION	Data and Signal	Data and Signal	Data and Signal
SIZE / POLES	2.5 mm; 2-pole	2.5 mm; 2-pole	2.5 mm; 2-pole
			
TYPE	4801.1200	4801.1210	4801.2200
CONNECTOR	Plug	Plug	Socket
HOUSING	Screened	Insulated	Screened

RATINGS	2 A @ 12 V AC/DC	2 A @ 12 V AC/DC	2 A @ 12 V AC/DC
DESCRIPTION	Data and Signal	Data and Signal	Data and Signal
SIZE / POLES	7.5 mm; 4-pole	7.5 mm; 4-pole	7.5 mm; 6-pole
			
TYPE	4804.1400	4804.1401	4804.1600
CONNECTOR	Plug	Plug	Plug
HOUSING	Insulated	Insulated	Insulated

RATINGS	2 A @ 12 V AC/DC	2 A @ 12 V AC/DC	2 A @ 12 V AC/DC
DESCRIPTION	Data and Signal	Data and Signal	Data and Signal
SIZE / POLES	7.5 mm; 4-pole	7.5 mm; 4-pole	7.5 mm; 6-pole
			
TYPE	4804.2400	4804.2410	4804.2610
CONNECTOR	Socket	Socket	Socket
HOUSING	Screened	Insulated	Insulated

RATINGS	0.5 A @ 30 V AC/DC	0.5 A @ 30 V AC/DC	0.5 A @ 30 V AC/DC
DESCRIPTION	Audio	Audio	Audio
SIZE / POLES	2.5 mm; 2-pole	2.5 mm; 2-pole	2.5 mm; 2-pole
			
TYPE	4831.1200	4831.1210	4831.1220
CONNECTOR	Plug	Plug	Plug
HOUSING	Screened	Insulated	Insulated

RATINGS	0.5 A @ 30 V AC/DC	0.5 A @ 30 V AC/DC	0.5 A @ 30 V AC/DC
DESCRIPTION	Audio	Audio	Audio
SIZE / POLES	2.5 mm; 3-pole	2.5 mm; 3-pole	2.5 mm; 3-pole
			
TYPE	4831.1300	4831.1310	4831.1320
CONNECTOR	Plug	Plug	Plug
HOUSING	Screened	Insulated	Insulated

RATINGS	0.5 A @ 30 V AC/DC	0.5 A @ 30 V AC/DC	0.5 A @ 30 V AC/DC
DESCRIPTION	Audio	Audio	Audio
SIZE / POLES	2.5 mm; 2-pole	2.5 mm; 2-pole	2.5 mm; 2-pole
			
TYPE	4831.2200	4831.2220	4831.2230
CONNECTOR	Socket	Socket	Socket
HOUSING	Screened	Screened	Insulated

RATINGS	0.5 A @ 30 V AC/DC	0.5 A @ 30 V AC/DC	0.5 A @ 30 V AC/DC
DESCRIPTION	Audio	Audio	Audio
SIZE / POLES	2.5 mm; 3-pole	2.5 mm; 3-pole	2.5 mm; 3-pole
			
TYPE	4831.2300	4831.2320	4831.2330
CONNECTOR	Socket	Socket	Socket
HOUSING	Screened	Screened	Insulated

See http://www.schurter.com for approval info related to specific products

RATINGS	0.5 A @ 30 V AC/DC	0.5 A @ 30 V AC/DC	0.5 A @ 30 V AC/DC	0.5 A @ 30 V AC/DC
DESCRIPTION	Audio	Audio	Audio	Audio
SIZE / POLES	2.5 mm; 2-pole	2.5 mm; 3-pole	3.5 mm; 2-pole	3.5 mm; 2-pole
				
TYPE	4831.3200	4831.3300	4832. 1200	4832.1211
CONNECTOR	Line Socket	Line Socket	Plug	Plug
HOUSING	Insulated	Insulated	Screened	Insulated

RATINGS	0.5 A @ 30 V AC/DC	0.5 A @ 30 V AC/DC	0.5 A @ 30 V AC/DC	0.5 A @ 30 V AC/DC
DESCRIPTION	Audio	Audio	Audio	Audio
SIZE / POLES	3.5 mm; 2-pole	3.5mm; 3-pole	3.5 mm; 3-pole	3.5 mm; 3-pole
				
TYPE	4832.1220	4832.1300	4832.1310	4832.1320
CONNECTOR	Plug	Plug	Plug	Plug
HOUSING	Insulated	Screened	Insulated	Insulated

RATINGS	0.5 A @ 30 V AC/DC	0.5 A @ 30V AC/DC	0.5 A @ 30 V AC/DC	0.5 A @ 30 V AC/DC
DESCRIPTION	Audio	Audio	Audio	Audio
SIZE / POLES	3.5 mm; 2-pole	3.5 mm; 2-pole	3.5 mm; 2-pole	3.5 mm; 3-pole
				
TYPE	4832.2211	4832.2220	4832. 2230	4832. 2300
CONNECTOR	Socket	Socket	Socket	Socket
HOUSING	Screened	Screened	Insulated	Screened

RATINGS	0.5 A @ 30 V AC/DC	0.5 A @ 30 V AC/DC	0.5 A @ 30 V AC/DC	0.5 A @ 30 V AC/DC
DESCRIPTION	Audio	Audio	Audio	Audio
SIZE / POLES	3.5 mm; 3-pole	3.5 mm; 3-pole	3.5 mm; 2-pole	3.5 mm; 3-pole
				
TYPE	4832.2320	4832.2330	4832. 3200	4832.3300
CONNECTOR	Socket	Socket	Line Socket	Line Socket
HOUSING	Screened	Insulated	Insulated	Insulated

RATINGS	1 A @ 30 V AC/DC	1 A @ 30 V AC/DC	1 A @ 30 V AC/DC	1 A @ 30 V AC/DC
DESCRIPTION	Audio	Audio	Audio	Audio
SIZE / POLES	6.3 mm; 2-pole	6.3 mm; 2-pole	6.3 mm; 2-pole	6.3 mm; 3-pole
				
TYPE	**4833.1200**	**4833.1210**	**4833.1220**	**4833.1300**
CONNECTOR	Plug	Plug	Plug	Plug
HOUSING	Screened	Insulated	Insulated	Screened

RATINGS	1 A @ 30 V AC/DC	1 A @ 30 V AC/DC	1 A @ 30 V AC/DC	1 A @ 30 V AC/DC
DESCRIPTION	Audio	Audio	Audio	Audio
SIZE / POLES	6.3 mm; 3-pole	6.3 mm; 3-pole	6.3 mm; 2-pole	6.3 mm; 2-pole
				
TYPE	**4833.1310**	**4833.1320**	**4833.2200**	**4833.2220**
CONNECTOR	Plug	Plug	Socket	Socket
HOUSING	Insulated	Insulated	Screened	Screened

RATINGS	1 A @ 30 V AC/DC	1 A @ 30V AC/DC	1 A @ 30 V AC/DC	1 A @ 30 V AC/DC
DESCRIPTION	Audio	Audio	Audio	Audio
SIZE / POLES	6.3 mm; 2-pole	6.3 mm; 3-pole	6.3 mm; 3-pole	6.3 mm; 3-pole
				
TYPE	**4833.2230**	**4833.2300**	**4833.2320**	**4833.2330**
CONNECTOR	Socket	Socket	Socket	Socket
HOUSING	Insulated	Screened	Screened	Insulated

RATINGS	1 A @ 30 V AC/DC	1 A @ 30 V AC/DC		
DESCRIPTION	Audio	Audio		
SIZE / POLES	6.3 mm; 2-pole	6.3 mm; 3-pole		
				
TYPE	**4833.3200**	**4833.3300**		
CONNECTOR	Line Socket	Line Socket		
HOUSING	Insulated	Insulated		

See http://www.schurter.com for approval info related to specific products

RATINGS	0.5 A @ 12 VDC	0.5 A @ 12 VDC	0.5 A @ 12 VDC
DESCRIPTION	DC	DC	DC
SIZE / POLES	5.5 / 2.1 mm; 2-pole	5.5 / 2.1 mm; 2-pole	5.5 / 2.5 mm; 2-pole
		 Lockable	
TYPE	4840.1200	4840.1201	4840.1210
CONNECTOR	Plug	Plug	Plug
TERMINAL	Solder	Solder	Solder

RATINGS	0.5 A @ 12 VDC	2 A @ 13.5 VDC	2 A @ 18 VDC
DESCRIPTION	DC	DC	DC
SIZE / POLES	5.5 / 2.5 mm; 2-pole	5.5 / 3.3 mm; 2-pole	6.5 / 4.3 mm; 2-pole
	 Lockable		
TYPE	4840.1211	4840.1220	4840.1230
CONNECTOR	Plug	Plug	Plug
TERMINAL	Solder	Solder	Solder

RATINGS	1 A @ 12 VDC	0.5 A @ 12 VDC	0.5 A @ 12 VDC
DESCRIPTION	DC	DC	DC
SIZE / POLES	6.3 / 2.0 mm; 2-pole	6.0 / 2.0 mm; 2-pole	5.7 / 2.0 mm; 2-pole
			
TYPE	4840.2200	4840.2201	4840.2202
CONNECTOR	Socket	Socket	Socket
TERMINAL	Solder	PCB Solder	PCB Solder

RATINGS	1 A @ 12 VDC	0.5 A @ 12 VDC	0.5 A @ 12 VDC
DESCRIPTION	DC	DC	DC
SIZE / POLES	6.3 / 2.35 mm; 2-pole	6.0 / 2.35 mm; 2-pole	5.7 / 2.35 mm; 2-poles
			
TYPE	4840.2210	4840.2211	4840.2212
CONNECTOR	Socket	Socket	Socket
TERMINAL	Solder	PCB Solder	PCB Solder

See http://www.schurter.com for approval info related to specific products

RATINGS	2 A @ 13.5 VDC	2 A @ 13.5 VDC	2 A @ 18 VDC	2 A @ 18 VDC
DESCRIPTION	DC	DC	DC	DC
SIZE / POLES	5.9 / 3.0 mm; 2-pole	6.0 / 3.0 mm; 2-pole	7.0 / 4.0 mm; 2-pole	7.0 / 4.0 mm; 2-pole
				
TYPE	4840.2220	4840.2221	4840.2230	4840.2232
CONNECTOR	Socket	Socket	Socket	Socket
TERMINAL	Solder	PCB Solder	Solder	PCB Solder

RATINGS	0.5 A @ 12 VDC	0.5 A @ 12 VDC	0.5 A @ 12 VDC	0.5 A @ 12 VDC
DESCRIPTION	DC	DC	DC	DC
SIZE / POLES	5.5 / 2.1 mm; 2-pole	5.5 / 2.1 mm; 2-pole	5.5 / 2.1 mm; 2-pole	5.5 / 2.5 mm; 2-pole
				
TYPE	4840.5200	4840.5201	4840.5202	4840.5210
CONNECTOR	Plug	Plug	Plug	Plug
TERMINAL	Cable	Cable	Cable	Cable

RATINGS	0.5 A @ 12 VDC	0.5 A @ 12 VDC	2 A @ 13.5 VDC	2 A @ 13.5 VDC
DESCRIPTION	DC	DC	DC	DC
SIZE / POLES	5.5 / 2.5 mm; 2-pole	5.5 / 2.5 mm; 2-pole	5.5 / 3.3 mm; 2-pole	5.5 / 3.3 mm; 2-pole
				
TYPE	4840.5211	4840.5212	4840.5220	4840.5221
CONNECTOR	Plug	Plug	Plug	Plug
TERMINAL	Cable	Cable	Cable	Cable

RATINGS	2 A @ 18 VDC	2 A @ 18 VDC		
DESCRIPTION	DC	DC		
SIZE / POLES	6.5 / 4.3 mm; 2-pole	6.5 / 4.3 mm; 2-pole		
				
TYPE	4840.5230	4840.5231		
CONNECTOR	Plug	Plug		
TERMINAL	Cable	Cable		

See http://www.schurter.com for approval info related to specific products

RATINGS	2 A @ 100 VAC/ 12 VDC	2 A @ 100 VAC/ 12 VDC	2 A @ 100 VAC/ 12 VDC
DESCRIPTION	DIN	DIN	DIN
SIZE / POLES	9.0 mm; 3-pole	9.0 mm; 4-pole	9.0 mm; 5-pole
			
TYPE	**4850.1310**	**4850.1410**	**4850.1510**
CONNECTOR	Plug	Plug	Plug
TERMINAL	Solder	Solder	Solder

RATINGS	2 A @ 100 VAC/ 12 VDC	2 A @ 100 VAC/ 12 VDC	2 A @ 100 VAC/ 12 VDC
DESCRIPTION	DIN	DIN	DIN
SIZE / POLES	9.0 mm; 6-pole	9.0 mm; 7-pole	9.0 mm; 8-pole
			
TYPE	**4850.1610**	**4850.1710**	**4850.1810**
CONNECTOR	Plug	Plug	Plug
TERMINAL	Solder	Solder	Solder

RATINGS	1 A @ 100 VAC/ 12 VDC	1 A @ 100 VAC/ 12 VDC	1 A @ 100 VAC/ 12 VDC
DESCRIPTION	DIN	DIN	DIN
SIZE / POLES	9.0 mm; 3-pole	9.0 mm; 3-pole	9.0 mm; 4-pole
			
TYPE	**4850.2300**	**4850.2310**	**4850.2400**
CONNECTOR	Socket	Socket	Socket
TERMINAL	PCB Solder	PCB Solder	PCB Solder

RATINGS	1 A @ 100 VAC/ 12 VDC	1 A @ 100 VAC/ 12 VDC	1 A @ 100 VAC/ 12 VDC
DESCRIPTION	DIN	DIN	DIN
SIZE / POLES	9.0 mm; 4-pole	9.0 mm; 5-pole	9.0 mm; 5-pole
			
TYPE	**4850.2410**	**4850.2500**	**4850.2510**
CONNECTOR	Socket	Socket	Socket
TERMNAL	PCB Solder	PCB Solder	PCB Solder

See http://www.schurter.com for approval info related to specific products

RATINGS	1 A @ 100 VAC / 12 VDC	1 A @ 100 VAC / 12 VDC	1 A @ 100 VAC / 12 VDC
DESCRIPTION	DIN	DIN	DIN
SIZE / POLES	9.0 mm; 6-pole	9.0 mm; 6-pole	9.0 mm; 7-pole
			
TYPE	4850.2600	4850.2610	4850.2710
CONNECTOR	Socket	Socket	Socket
TERMINAL	PCB Solder	PCB Solder	PCB Solder

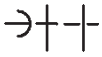
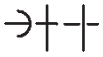
RATINGS	1 A @ 100 VAC / 12 VDC	1 A @ 100 VAC / 12 VDC	2 A @ 100 VAC / 12 VDC
DESCRIPTION	DIN	DIN	DIN
SIZE / POLES	9.0 mm; 8-pole	9.0 mm; 8-pole	9.0 mm; 3-pole
			
TYPE	4850.2800	4850.2810	4850.3300
CONNECTOR	Socket	Socket	Line Socket
TERMINAL	PCB Solder	PCB Solder	Solder

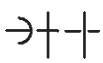
RATINGS	2 A @ 100 VAC / 12 VDC	2 A @ 100 VAC / 12 VDC	2 A @ 100 VAC / 12 VDC
DESCRIPTION	DIN	DIN	DIN
SIZE / POLES	9.0 mm; 4-pole	9.0 mm; 5-pole	9.0 mm; 6-pole
			
TYPE	4850.3400	4850.3500	4850.3600
CONNECTOR	Line Socket	Line Socket	Line Socket
TERMINAL	Solder	Solder	Solder

RATINGS	2 A @ 100 VAC / 12 VDC	2 A @ 100 VAC / 12 VDC	
DESCRIPTION	DIN	DIN	
SIZE / POLES	9.0 mm; 7-pole	9.0 mm; 8-pole	
			
TYPE	4850.3700	4850.3800	
CONNECTOR	Line Socket	Line Socket	
TERMINAL	Solder	Solder	

See http://www.schurter.com for approval info related to specific products

RATED CURRE NT	10 A	6.3 A
MOUNTING	PCB	PCB
		
TYPE	PB 1011	PB 1021
SCHEMATIC		
COMMENT	Single pluggable	Triple pluggable

RATED CURRENT	10 A	10 A
MOUNTING	PCB	PCB
		
TYPE	PB 1101	PB 1111
SCHEMATIC		
COMMENT	Single pluggable, aluminum terminals	Single pluggable, aluminum terminals

RATED CURRENT	6.3 A		10 A	6.3 A
MOUNTING	PCB		Probe	
				
TYPE	PB 1151	PBD 1211	PS 1061	PS 1161
SCHEMATIC				
COMMENT	Double pluggable, front side	Single pluggable, aluminum terminals	Test probe, gold plated contacts	Test probe, double pluggable

DESCRIPTION	Transipillars, Spacers		
MOUNTING STYLE	Style 1	Style 2	Style 3
ASSEMBLY METHOD	Stud/Stud	Stud/Insert	Insert/Insert
MATERIAL BODY	Nylon 66, UL 94V-2	Nylon 66, UL 94V-2	Nylon 66, UL 94V-2
MATERIAL STUD; INSERT	Steel zinc plated; Plain brass BS class 6H	Steel zinc plated BS class 5G; Plain brass BS class 6H	Plain brass BS class 6H
			
TYPE	96xx Hexgonal / 98xx Cylindrical		
DIAMETER	Ø7mm - Ø16mm		
LENGTH (mm)	13 mm - 64 mm		
THREAD SIZE	M3-M6 depending on length/diameter		
DIALECTIC STRENGTH	> 11 kVDC		
INSULATION RESISTANCE	> 10000 MΩ @ 500 VDC (min thickness 1mm)		
OPERATING TEMPERATURE	-20°C to +80°C		

EMC Products

FMEB

1-stage filter for DC systems

DKLP-1

compensated high current choke, 1-phase

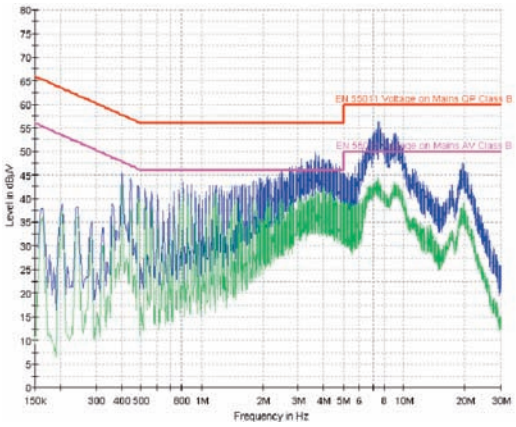
5120

inlet filter, ECO design

EMC Services

Interference suppression of electrical systems or equipment with the optimal EMC solution.

Individual needs
To meet the needs of customers, SCHURTER offers, in addition to its wide range of products, additional measuring services to ensure EMC. In one test, measurement results for CE certification can be created, or in the event of interference, custom tailored solutions can be developed on site, which comply with required standards.

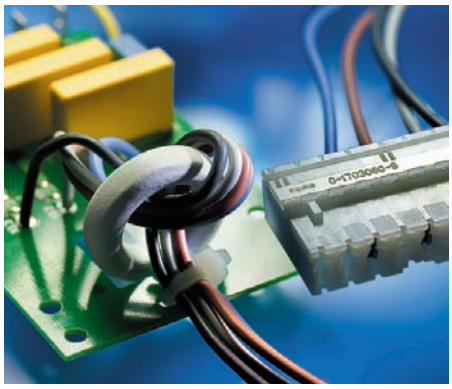


Customized EMC filter for system integration
In addition to the damping effect, filter geometry and system connection play a central roll. The area of application can make a filter housing, for example, often unnecessary. Additional savings on material costs are therefore possible. Open frame filters are subsystems that are developed in exact accordance to the specifications of our OEM customers. SCHURTER creates your customer specific solution. Many years of experience in filter development, the wide range of standard products and the modernly equipped measurement laboratory enables us to offer individual solutions.

Measuring competence
SCHURTER carries out the necessary preliminary tests for immunity and emissions of your electronic systems or equipment, and offers the appropriate standard or customer specific EMC solution.

Our EMC Service Center is equipped with the latest accredited and certified test receivers and immunity test devices.
All measurements are conducted by SCHURTER in accordance with respective standards, although radiation measurements can only be performed in the laboratory (IEC 61000-4-3 and IEC 61000-4-6).

Measurement report
The results of the measurements are recorded in an EMC measurement report.
This measurement report serves as CE verification of conformity.



Sample service

In order to solve individual tasks, special filter solutions must be developed. During the collaboration SCHURTER offers samples including documentation within two weeks. The team of engineers in the measuring service works closely with the work preparation and sourcing, so that the created sample can also be produced during serial production.

Service offer/contact

Test our EMC competence. We will measure your device, advise you during the interference suppression of your implementation and offer, in addition to many standard products, specific EMC solutions for EMC conformity. This service is an important part of the CE certification of your device. It is our pleasure to carry out EMC measurements for you.

Please do not hesitate to contact us. We are ready to take on your problems and offer you an optimal EMC solution.

www.schurterinc.com

info@schurterinc.com

Standard or Medical Filter

V-Lock

See http://www.schurter.com for approval info related to specific products

RATINGS, IEC/UL	1-10 A / 1-15 A @ 250 V / 125 V	1-10 A @250 V / 125 V	1-10 A / 1-15 A @250 V	10 A / 15 A @250 V
PANEL MOUNTING	Screw-on / Snap-in	Screw-on / Snap-in	Screw-on / rear-side or Snap-in	Screw-on
TERMINALS	Quick-connect	Quick-connect/Wire	Quick-connect, PCB, Wires	Quick-connect
				
TYPE	5110	FGS	5120 / 5123*	5150
FUSEHOLDER				
VOLTAGE SELECTOR				
COMMENT		V-Lock	*High attenuation, Class I or II / V-Lock	For high frequency / V-Lock
TYPE WITHOUT LINE FILTER	6100-3, 6100-4			

RATINGS, IEC/UL	0.5-6 A @250 V / 125 V	3-15 A @125 VDC	16 A / 20 A @250 V
PANEL MOUNTING	Screw-on / front-side or Snap-in	Screw-on / front or rear-side or Snap-in	Screw-on or Snap-in
TERMINALS	Solder/Quick-connect	Quick-connect, PCB, Wire	Solder/Quick-connect/Wire
		5003 AMP or molex  5003 molex	 Front or rear mounting Rear mounting only 5130 ECO
TYPE	5008	5003	*C20F / C22F / *5130 ECO
LINE SWITCH / INRUSH			
VOLTAGE SELECTOR			
COMMENT			C20F with potting, C22F w/high temperature 5130 ECO new design (unpotted) / *V-Lock
TYPE WITHOUT LINE FILTER			4798, 4793

V-Lock: Equipped with V-Lock notch compatible with mating V-Lock cordset

Standard or Medical Filter

V-Lock

See http://www.schurter.com for approval info related to specific products

RATINGS, IEC/UL	0.5-10 A / 0.5-15 A @250 V / 125 V	1-10 A @250 V	1-10 A @250 V / 125V	
PANEL MOUNTING	Snap-in / rear-side	Screw-on	Screw-on / Snap-in	
TERMINALS	Quick-connect	PCB	Quick-connect, Wires	Quick-connect
		NEW 		
TYPE	GRF2 / GRF4	DA22	KFA	5200
FUSEHOLDER		5x20 / 1- or 2-pole	5x20 / 1- or 2-pole	5x20 / 1-pole
*RATED POWER ACCEPTANCE @Ta 23°C	-	2.0W (1-pole), 1.4W (2-pole) per pole	2.0W (1-pole), 1.6W (2-pole) per pole	2.0W (1-pole)
VOLTAGE SELECTOR			Step	
COMMENT	With shield or line filter		V-Lock	
TYPE WITHOUT LINE FILTER			KEA	6200

RATINGS, IEC/UL	1-10 A @250 V / 125 V	1-8 A @250V / 125 V	1-10 A @250 V / 125V	
PANEL MOUNTING	Screw-on / Snap-in	Screw-on / front or rear-side	Screw-on	Screw-on
TERMINALS	Quick-connect	Quick-connect	Quick-connect	Quick-connect
				
TYPE	5220	5707	KFC	CE
LINE SWITCH				
FUSEHOLDER	5x20 / 2-pole	5x20 / 1- or 2-pole	5x20 or 6.3x32 1- or 2-pole	
*RATED POWER ACCEPTANCE @Ta 23°C	1.6W (2-pole)	1.6W (1-pole), 1.2W (2-pole) per pole	5x20: 2.5W (1-pole), 2.0W (2-pole) per pole 6.3x32: 3.15W (1-pole), 2.5W (2-pole) per pole	
VOLTAGE SELECTOR			Step	Series / Parallel
COMMENT		Class I or II, IP65 Seal to chassis / V-Lock	V-Lock	
TYPE WITHOUT LINE FILTER	6220	4707	KEC	KE

V-Lock: Equipped with V-Lock notch compatible with mating V-Lock cordset

* See Thermal Requirements of a Fuseholder page 92

Standard or Medical Filter

V-Lock

See http://www.schurter.com for approval info related to specific products

RATINGS, IEC/UL	1-10 A @250 V / 125 V			1-10 A @250 V
PANEL MOUNTING	Screw-on	Screw-on	Screw-on / rear side	Screw-on / rear side
TERMINALS	Quick-connect	Quick-connect	PCB	PCB
				
TYPE	**KFB I**	**KFB II**	**DC22**	**DD22**
LINE SWITCH / INRUSH	1-pole / 20 A, <5 ms	2-pole / 70 A, 3-4 ms	1-or2-pole/100A,3-4ms	2-pole
FUSEHOLDER				5x20 / 1- or 2-pole
*RATED POWER ACCEPTANCE @Ta 23°C				2.0W (1-pole), 1.6W (2-pole) per pole
COMMENT			V-Lock	
TYPE WITHOUT LINE FILTER	KEB I	KEB II	DC 21	DD21

RATINGS, IEC/UL	1-10 A @250 V / 125 V			
PANEL MOUNTING	Screw-on / front side	Screw-on / rear-side	Snap-in	
TERMINALS	Quick-connect	Quick-connect	Quick-connect	
				
TYPE	**DC12**			
LINE SWITCH / INRUSH	1- or 2-pole / 100 A, 3-4 ms			
COMMENT	V-Lock			
TYPE WITHOUT LINE FILTER	DC11			

RATINGS, IEC/UL	10 A @250 V	1-10 A @250 V / 125 V	1-10 A / 1-8A @250 V	1-10 A @250 V
PANEL MOUNTING	Snap-in / front-side		Screw-on	Snap-in / front-side
TERMINALS	Quick-connect		Quick-connect	Solder/Quick-connect
	 without line filter, with shield			
TYPE	**KM**	**KMF**	**DD12**	**FELCOM 54**
LINE SWITCH / INRUSH	2-pole / 100 A, 3-4 ms			2-pole
FUSEHOLDER	5x20 / 1- or 2-pole			5x20 / 1- or 2- pole
*RATED POWER ACCEPTANCE @Ta 23°C	2.0W (1-pole), 1.4W (2-pole) per pole		2.0W (1-pole), 1.6W (2-pole) per pole	
COMMENT			Snap-in version KMF	2-5 Functions
TYPE WITHOUT LINE FILTER	KM		DD11	FELCOM 64

V-Lock: Equipped with V-Lock notch compatible with mating V-Lock cordset

* See Thermal Requirements of a Fuseholder page 92

Standard or Medical Filter

V-Lock

See http://www.schurter.com for approval info related to specific products

RATINGS, IEC/UL	1-10 A @250 V / 125 V			
PANEL MOUNTING	Screw-on	Screw-on	Screw-on	Screw-on
TERMINALS	Quick-connect	Quick-connect	Quick-connect	Quick-connect
				
TYPE	**FKH / FKI**	**FKHD / FKID**	**CD**	**CG**
LINE SWITCH	2-pole	2-pole	2-pole	2-pole
FUSEHOLDER	5x20 / 1- pole (FKH/FKHD) or 2-pole (FKI/ FKID)		5x20 or 6.3x32 / 1- or 2-pole	
*RATED POWER ACCEPTANCE @Ta 23°C	1.6W (1-pole)	1.6W (1-pole)	5x20: 2.5W (1-pole), 2.0W (2-pole) per pole 6.3x32: 3.15W (1-pole), 2.5W (2-pole) per pole	
VOLTAGE SELECTOR			Step	Series / Para
COMMENT	1-stage	2-stage	Additional versions with line switch for Bowdencable available / V-Lock	
TYPE WITHOUT LINE FILTER			KD	KG

RATINGS, IEC/UL	1-10 A / 15 A @250 V	1-10 A @250 V / 1-15 A @125 V / 250 V	12-16 A @ 250 V / 12-20 A @ 125 V	
PANEL MOUNTING	Screw-on	Screw-on	Screw-on	Screw-on
TERMINALS	Quick-connect	Quick-connect	Quick-connect	Quick-connect
				
TYPE	**DF12**	**5145**	**EC12**	**EF12**
LINE SWITCH / INRUSH	2-pole	2-pole	2-pole	2-pole
FUSEHOLDER				
*RATED POWER ACCEPTANCE @Ta 23°C				
VOLTAGE SELECTOR				
COMMENT	With circuit breaker TA45 Line Switch Illuminated or Non-illuminated / V-Lock		V-Lock	Recessed circuit breaker TA45 / V-Lock
TYPE WITHOUT LINE FILTER	DF11	6145	EC11	EF11

V-Lock: Equipped with V-Lock notch compatible with mating V-Lock cordset

* See Thermal Requirements of a Fuseholder page 92

Standard or Medical Filter

See http://www.schurter.com for approval info related to specific products

RATED VOLTAGE	250 / 125 VAC, 50 / 60 HZ		
CURRENT RATING	1-10A @ 40°C	0.5 - 6.5A @ 40°C	2-16A @ 40°C
MOUNTING	PCB	PCB	PCB
TERMINALS	PCB or quick-connect	PCB	PCB
CASE	Plastic	Plastic	Aluminum
			
TYPE	5500	FPP	FMAB-72
APPLICATION	All-purpose	All-purpose	All-purpose
LEAKAGE CURRENT	Standard and medical version	Standard and medical version	Standard and medical version
FILTER STAGE	1	1	1
COMMENT	Low priced suppression filter	Low priced suppression filter	Better shielding than plastic case

RATED VOLTAGE	250 / 125 VAC, 50 / 60 HZ		
CURRENT RATING	1 -10A @ 40°C	6 - 20A @ 40°C	
MOUNTING	Chassis	Chassis	
TERMINALS	Quick-connect	Quick-connect	
CASE	Aluminum	Aluminum	
			
TYPE	FMLB-41	FMLB-09	
APPLICATION	All-purpose	All-purpose	
LEAKAGE CURRENT	Standard and medical version	Standard and medical version	
FILTER STAGE	1	1	
COMMENT	Small chassis-mounting filter	Premium price-performance ratio	

Standard or Medical Filter

See http://www.schurter.com for approval info related to specific products

RATED VOLTAGE	250 / 125 VAC, 50 / 60 HZ	
CURRENT RATING	6 - 20A @ 40°C	1 -10A @ 40°C
MOUNTING	Chassis	Chassis
TERMINALS	Quick-connect	Quick-connect
CASE	Aluminum	Aluminum
		
TYPE	**FMLB-51**	**FMW-41**
APPLICATION	All-purpose	All-purpose
LEAKAGE CURRENT	Standard and medical version	Standard and medical version
FILTER STAGE	1	1
COMMENT	Premium price-performance ratio	Small chassis-mounting filter

RATED VOLTAGE	250 / 125 VAC, 50 / 60 HZ			
CURRENT RATING	2 -6A @ 40°C	1 0-20A @ 40°C	4 - 30A @ 40°C	1 -16A @ 40°C
MOUNTING	Chassis		Chassis	
TERMINALS	Quick-connect		Screw	Quick-connect
CASE	Aluminum		Metal	Aluminum / Metal
				
TYPE	**FMW-52**	**FMW-55**	**FMW-150**	**FSS**
APPLICATION	For high requirements	All-purpose	High common- and differential mode attenuation	Especially effective against differential mode interference
LEAKAGE CURRENT	Standard & Industrial	IT and industrial	IT and industrial	
FILTER STAGE	2	1	3	2
COMMENT	Filter with high differential mode attenuation loss	Filter with higher nominal current	Filter for highest requirements with overvoltage protection	Filter with high differential mode attenuation loss

Standard or Medical Filter

See http://www.schurter.com for approval info related to specific products

RATED VOLTAGE	250 / 125 VAC, 50 / 60 HZ		
CURRENT RATING	3 - 36A @ 40°C	12 - 50A @ 40°C	8 - 25A @ 40°C
MOUNTING	Chassis		
TERMINALS	Quick-connect or Screw	Screw	
CASE	Aluminum / Stainless Steel	Aluminum / metal	
			
TYPE	**FSW**	**FMAB**	**FMBB**
APPLICATION	Especially effective against common mode interference	High attenuation at specific load	
LEAKAGE CURRENT	IT and industrials		
FILTER STAGE	2	1	2
FEATURE	Filter with high differential mode attenuation loss	High current filter	High current line filter for maximum requirements

RATED VOLTAGE	43 / 80 VDC	IEC 250 VAC / UL 125/250 VAC		IEC 250 VAC / UL 125/250 VAC
CURRENT RATING	5-30 A @ 40°C	10 - 20 A	1 - 10 A	IEC 1-36 A / UL 1-30 A
MOUNTING	Chassis	DIN Rail		Chassis
TERMINALS	Quick-connect 6.3x0.8 mm or Screw, Flexible wires	Screw Clamp / Quick-connect for PE		Screw
CASE	Aluminum	Metal		Aluminum
		NEW 		NEW 
TYPE	**FMEB / FMEC**	**FMAB RAIL**	**FMBB RAIL**	**FMBB NEO**
APPLICATION	Especially effective against common mode interference	Especially designed for electronic switch and control cabinets		Especially designed for industrial applications
LEAKAGE CURRENT		Industrial or Standard		0.734 mA Standard or Medical
FILTER STAGE	1	1	2	2
FEATURE	For industry applications with DC power supply			For high current applications

See http://www.schurter.com for approval info related to specific products

RATINGS	8 - 32 A / 550 VAC	8 - 64A / 480 VAC	10 - 115 A / 480 VAC	6-1100 A / 480/520 VAC
MOUNTING STYLE	Screw-on Chassis from top	Screw-on Chassis from top	Screw-on from top	Screw-on from top
TERMINALS	Screw clamp	Screw clamp	Screw clamp/Flexible wires	Screw Clamp
			 Book style	
TYPE	FMAC-Out	FMBC	FMBC BOOK STYLE	FMAC
FILTER STAGE	1	2	2	1
APPLICATION	Output filtering on frequency conversion	For high attentuation requirements	For high attentuation requirements	General purpose
MATERIALS: HOUSING	Metal	Metal	Metal	Metal
PROTECTION CLASS	I	I	I	I

RATINGS	3 - 20 A / 440 VAC	6 - 550 A* @277/480 VAC @ 40/75°C	16 - 150 A / 480 VAC	10 - 115 A / 480 VAC
MOUNTING STYLE	Screw-on Chassis from top	Screw-on Chassis from top	Screw-on from top or side	Screw-on from top or side
TERMINALS	Quick-connect	Screw clamp	Screw terminals	Screw terminals
	 4 - 6 A	 *See temperature derating		
TYPE	FMW4-65	FMAD	FMAC ECO	FMBC ECO
FILTER STAGE	1	1	1	2
APPLICATION	General purpose	High attenuation at high loads	Designed for industrial applications	Designed for industrial applications
MATERIALS: HOUSING	Metal	Metal	Metal	Metal
PROTECTION CLASS	I	I	I	I

See http://www.schurter.com for approval info related to specific products

RATINGS	3 - 20 A / 277 - 480 VAC	8 - 200 A / 300/520 VAC	7 - 180 A / 480/520 VAC	
MOUNTING STYLE	DIN Rail	Chassis	Chassis	
TERMINALS	Screw Clamp / Quick connect terminal for PE	Screw Clamp	Screw Clamp	
	NEW 	NEW 	NEW 	
TYPE	FMAC / FMAD RAIL	FMBD NEO	FMBC NEO	
FILTER STAGE	1	2		
APPLICATION	Electric Switch and Control Cabinets	Especially designed for industrial applications	Frequency Converters	
MATERIALS: HOUSING	Metal	Metal	Metal	
PROTECTION CLASS	I	I	I	

RATINGS	4 - 16 A / 500/288 VAC		150 - 2500 A / 520/760 VAC	25 - 2300 A / 1200 VDC
MOUNTING STYLE	Chassis		Screw-on Chassis	Screw-on Chassis
TERMINALS	Screw Clamp	Screw Clamp / Wire	Bolt & Nut and Copper Bars	Screw Clamp / Copper Bars
	NEW 	NEW 	NEW 	NEW 
TYPE	FMAC SINE	FMAC SINE DCL	FMCC SOL	FMER SOL
FILTER STAGE	1		3	1
APPLICATION	Industrial, Optimized for Long Cablemotors		High Voltage Frequency Converters, PV Inverters	Photovoltaic Converters
MATERIALS: HOUSING	Metal		Metal / Aluminum	Metal
PROTECTION CLASS	I		I	I

RATINGS	6-10 A / 440 VAC	1-2 A / 440 VAC	10-50 A / up to 540 VAC / 760 VDC	10-20 A / 540 VAC / 760 VDC
MOUNTING STYLE	Screw-on	Screw-on	Screw-on	Screw-on
TERMINALS	THT, Flexible wires	THT, Flexible wires	Flexible wires	THT
				
TYPE	**DFK4**	**DFK-2**	**DKIP-1**	**DKIL-1**
CHOKE	Compensated multiple choke	Compensated multiple choke	High current choke	High current choke
INDUCTANCE	1.5-4 mH	10-20 mH	1.1-12 mH	1.1-12 mH
NUMBER OF COILS	2-4	2	2	2
APPLICATION	Especially effective against asymmetrical interference	Especially effective against asymmetrical interference	Especially effective against asymmetrical interference	Especially effective against asymmetrical interference
MATERIALS: HOUSING	Thermoplastic UL 94V-0	Thermoplastic	Thermoplastic UL 94V-0	Thermoplastic UL 94V-0

RATINGS	0.3-10 A / up to 250 VAC	0.4-4A / up to 250 VAC	0.6 - 6.3 A / up to 440 VAC	4-20 A / up to 540 VAC / 760 VDC
MOUNTING STYLE	PCB mounted	PCB mounted	PCB mounted	Screw-on
TERMINALS FOR	THT	SMD	THT	Wire leads
				
TYPE	**DKFP**	**DKFS**	**DFKF DFKH**	**DKLP-1**
CHOKE	Compensated multiple choke	Current Compensated choke	High current choke	High current choke
INDUCTANCE	0.5-100 mH	0.5-39 mH	0.6-50 mH	14-60 mH
NUMBER OF COILS	2	2	2	2
APPLICATION	Especially effective against asymmetrical interference	Especially effective against asymmetrical interference	Especially effective against asymmetrical interference	Especially effective against asymmetrical interference
MATERIALS: HOUSING	Thermoplastic UL 94V-0	Thermoplastic UL 94V-0	Thermoplastic UL 94V-0	Thermoplastic UL 94V-0

RATINGS	4-7 A / up to 540 VAC / 760 VDC	0.45-7 A / 600 VDC	0.45-7 A / up to 600 VDC	0.6 - 1 A / 600 VDC
MOUNTING STYLE	Screw-on	PCB mounted	PCB mounted	PCB mounted
TERMINALS FOR	THT	THT or SMD	THT	THT or SMD
				
TYPE	**DKLL-1**	**DLF**	**DLH**	**DLNP**
CHOKE	Current Compensated choke	Linear choke	Linear choke	Linear choke
INDUCTANCE	14-60 mH	0.015-3 mH	0.02-5.5 mH	0.05-0.1 mH
NUMBER OF COILS	2	1	1	1
APPLICATION	Especially against asymmetrical inter-ference	Power electronics	Power electronics	Power electronics
MATERIALS: HOUSING	Thermoplastic UL 94V-0	Thermoplastic UL 94V-0	Thermoplastic UL 94V-0	Thermoplastic UL 94V-0

RATINGS	0.8 - 10 A / up to440 VAC	5 - 45 A / 440 VAC	5 - 45 A / 440 VAC	16 A - 25 A
MOUNTING STYLE	PCB mounted	Screw-on version	Screw-on version	PCB mounted
TERMINALS	THT, Flexible wire	THT, Flexible wire	THT, Flexible wire	Wire leads
				
TYPE	**DFSG**	**DLFP**	**DLFL**	**DEN**
CHOKE	Saturating Choke	Saturating Choke	Saturating Choke	Groundwire Choke
INDUCTANCE	0.05 - 1 mH	0.05 - 1 mH	0.05 - 1 mH	4 mH
NUMBER OF COILS	1	1	1	1
APPLICATION	Phase angle control circuits	Phase angle control circuits	Phase angle control circuits	Interference suppression
MATERIALS: HOUSING	Thermoplastic UL 94V-0	Thermoplastic UL 94V-0	Thermoplastic UL 94V-0	Thermoplastic UL 94V-0

RATINGS	16 - 25 A	16 - 25 A	0.5 - 16 A / up to 600 VDC	0.45 - 4.5 A / up to 600 VDC
MOUNTING STYLE	PCB mounted	PCB mounted	PCB mounted	PCB mounted
TERMINALS	THT	Wire leads	THT	THT
				
TYPE	**DENO**	**DEH**	**DS**	**DSF**
CHOKE	Groundwire choke	Groundwire choke	Storage choke	Storage choke
INDUCTANCE	2 - 4 mH	0.02 - 0.04 mH	0.01 - 1 mH	0.011 - 3.7 mH
NUMBER OF COILS	1	1		1
APPLICATION	Interference suppression	Interference suppression	Storage of energy in switched power supplies	Storage of energy in switched power supplies
MATERIALS: HOUSING		Thermoplastic UL 94V-0	Thermoplastic UL 94V-0	Thermoplastic UL 94V-0

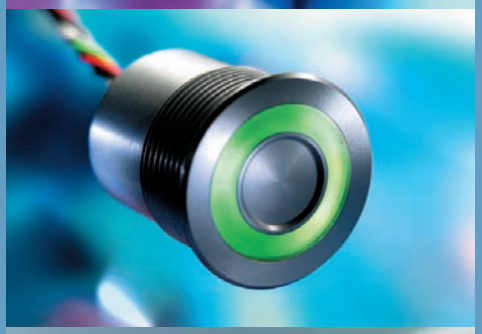
RATINGS	0.45 - 4.5 A / 06 - 1 A @600 VDC	0.5 - 16 A / 0.45 - 7 A @600 VDC
MOUNTING STYLE	PCB mounted / Screw-on version from top	
TERMINALS	THT or SMD	Wire leads
		
TYPE	**DSH / DSHP**	**DSO / DLO**
CHOKE	Storage Choke	Storage Choke
INDUCTANCE	0.01 - 2 mH / 0.04 - 0.1 mH	0.01 - 1 mH
NUMBER OF COILS	1	1
APPLICATION	Storage of energy in switched power supplies	Storage of energy in switched power supplies
MATERIALS: HOUSING	Thermoplastic UL 94V-0	

To assist in the simulation of circuits, SCHURTER now offers **SPICE** libraries for common-mode chokes on circuit boards, up to a rated current of 10A.

RATED VOLTAGE	up to 500 VAC	up to 500 VAC	up to600 VAC	up to 500 VAC
MOUNTING STYLE	PCB mounted	PCB mounted	PCB mounted	PCB mounted
TERMINALS FOR	THT	THT	THT	THT
				
TYPE	**IL**	**ILR**	**IT**	**IX**
TURN RATIO	1:1, 1:1:1, 3:1:1	1:1, 2:1, 3:1, 1:1:1	1:1, 2:1, 1:1:1	1:1:1, 3:1:1
VOLTAGE-TIME INTEGRAL	250 - 500 Vµs	100-300 Vµs	150- 400 Vµs	500 Vµs
APPLICATION			Control of semi-conductors in power electronics	
MATERIALS: HOUSING	Thermoplastic UL 94V-0	Thermoplastic UL 94V-0	Thermoplastic UL 94V-0	Thermoplastic UL 94V-0
PULSE RISE TIME	0.5 - 1.5 Vµs	0.1 - 0.3 Vµs	0.05 - 1.5 Vµs	0.7 - 0.8 Vµs

RATINGS	up to 600 VAC			
MOUNTING STYLE	SMD			
TERMINALS FOR	1:1, 2:1, 1:1:1			
				
TYPE	**IS**			
TURN RATIO				
VOLTAGE-TIME INTEGRAL	150- 400 Vµs			
APPLICATION	Control of semi-conductors in power electronics			
MATERIALS: HOUSING	Thermoplastic UL 94V-0			
PULSE RISE TIME	0.5 - 1.5 Vµs			

Switches



MSM

vandal-proof momentary action and latching action switch

PSE

piezo switch sealed and with long lifetime

Touch Screen

in analog-resistive, matrix or capacitive technology

	Vandal-proof mechanical switches							
MOUNTING DIAMETER	Ø16mm		Ø19mm		Ø19mm		Ø19mm	
SWITCHING FUNCTION	NO, NC, NO/NC		NO, NC, NO/NC		NO		NO, NC, NO/NC	
HOUSING MATERIAL	Stainless steel		Stainless steel		Stainless steel		Stainless steel	
SWITCHING CURRENT	100 mA; 5/3 A; 10 A		100 mA; 5/3 A; 10 A		12A AC		5/3 A	
SWITCHING VOLTAGE	30 VDC; 125/250 VAC; 250 VAC		30 VDC; 125/250 VAC; 250 VAC		250 VAC		125 / 250 VAC	
IP RATING	IP 67 Frontside contact area		IP 67 Frontside contact area		IP 64		IP 67	
IK RATING	IK 06		IK 07		IK 07		IK 07	
TEMPERATURE	-25°C to +85°C		-25°C to +85°C		-20°C to +85°C		-25°C to +85°C	
								
TYPE	**MSM 16**		**MSM 19**		**MSM 19 LA**		**MSM 19 DP**	
APPROVALS* *microswitch								
SWITCHING ACTION	1-pole momentary		1-pole momentary		1-2 pole latching action		2-pole momentary	
	Housing	Actuator	Housing	Actuator	Housing	Actuator	Housing	Actuator
ZINC DIECASTING								
STAINLESS STEEL	o	o	o	o	o	o	o	o
ALUMINUM								
	All switches are supplied with nut and o-ring seal							
	Part number							
TERMINALS								
FASTON	1241.6611.1120000		1241.6621.1120000		1241.6821.1120000		1241.6921.1120000	
PINS								
PINS W. SOLDERING AID								
WIRE LEADS								
****CLIP FOR PINS**								
SOLDER TERMINALS								
ILLUMINATION VOLTAGE					24 VDC *12 & 5 VDC on request*			
RED					1241.682x.1121000		1241.692x.1121000	
GREEN					1241.682x.1122000		1241.692x.1122000	
YELLOW								
RED/GREEN								
BLUE					1241.682x.1124000		1241.692x.1124000	

o Standard Version

** Accessory clip for terminal pins can be ordered separately, item 0701.9233

x Specification for illumination - 3 for point illumination, 4 for ring illumination

	Vandal-proof mechanical switches							
MOUNTING DIAMETER	Ø22mm		Ø22mm		Ø22mm		Ø22mm	
SWITCHING FUNCTION	NO, NC, NO/NC		NO		NO, NC, NO/NC		NO, NC, NO/NC	
HOUSING MATERIAL	Stainless steel		Stainless steel		Stainless steel		Stainless steel	
SWITCHING CURRENT	100 mA; 5/3 A; 10 A		12 A		5 / 3 A		5 / 3 A	
SWITCHING VOLTAGE	30 VDC; 125/250 VAC; 250 VAC		250 VAC		125 / 250 VAC		125 / 250 VAC	
IP RATING	IP 67		IP 64		IP 67		IP 67	
IK RATING	IK 07		IK 07		IK 07		IK 06 / IK 07	
TEMPERATURE	-25°C to +85°C		-40°C to +85°C		-25°C to +85°C		-25°C to +85°C	
			NEW 					
TYPE	**MSM 22**		**MSM 22 LA**		**MSM 22 DP**		**MSM 22 SI**	
APPROVALS* *microswitch								
SWITCHING ACTION	1-pole momentary		1-2 pole latching action		2-pole momentary		1-2 pole momentary Snap-in	
	Housing	Actuator	Housing	Actuator	Housing	Actuator	Housing	Actuator
ZINC DIECASTING								
STAINLESS STEEL	o	o	o	o	o	o	o	o
ALUMINUM								
	All switches are supplied with nut and o-ring seal, except MSM SI for snap-in mounting							
	Part number							
TERMINALS								
FASTON	1241.6631.1120000		1241.6831.1120000		1241.6931.1120000		1241.6695.1120000 1241.6699.1120000	
PINS								
PINS W. SOLDERING AID								
WIRE LEADS								
CLIP FOR PINS								
SOLDER TERMINALS								
ILLUMINATION VOLTAGE					24 VDC *12 & 5 VDC on request*		24 VDC	
RED	1241.663x.1121000		1241.683x.1121000		1241.693x.1121000		1241.6693.1121000 1241.6697.1121000	
GREEN	1241.663x.1122000		1241.683x.1122000		1241.693x.1122000		1241.6693.1122000 1241.6697.1122000	
YELLOW								
RED/GREEN								
BLUE	1241.663x.1124000		1241.683x.1124000		1241.693x.1124000			
WHITE	1241.6634.1125000							

** Clip for terminal pins must be ordered separately, item 0701.9233
x Specification for illumination - 3 for point illumination, 4 for ring illumination

	Vandal-proof mechanical switches							
MOUNTING DIAMETER	Ø22mm		Ø30mm		Ø30mm			
SWITCHING FUNCTION	NO/NC		NO, NC, NO/NC		NO			
HOUSING MATERIAL	Stainless steel		Stainless steel		Aluminum anodized			
SWITCHING CURRENT	5/3 A		100 mA; 5/3 A; 10 A		125 mA			
SWITCHING VOLTAGE	125/250 VAC		30 VDC;125/250 VAC; 250 VAC		48 VDC			
IP RATING	IP 65 / IP 69K		IP 67		IP 65			
IK RATING	IK 07		IK 07		IK 05			
TEMPERATURE	-25°C to +85°C		-25°C to +85°C		-20°C to +60°C			
	NEW 							
TYPE	**MSM 22 CS**		**MSM 30 & DP**		**MCS 30 RI**			
APPROVALS* *microswitch								
SWITCHING ACTION	1-pole momentary ceramic actuator		2-pole momentary		1-pole momentary			
	Housing	Actuator	Housing	Actuator	Housing	Actuator		
ZINC DIECASTING						o		
STAINLESS STEEL	o		o	o		*		
ALUMINUM					o			
CERAMIC		o						
	All switches are supplied with nut and o-ring seal							
	Part number							
TERMINALS								
FASTON	o		o					
PINS								
PINS W. SOLDERING AID								
WIRE LEADS					o			
SOLDER TERMINALS								
ILLUMINATION VOLTAGE	24 VDC *12 & 5 VDC on request*		24 VDC		24 VDC			
RED	1241.7036.1121000		1241.6664.1121000		1241.6400			
GREEN	1241.7036.1122000		1241.6664.1122000		1241.6401			
YELLOW					1241.6402			
RED/GREEN					1241.6403			
BLUE	1241.7036.1124000		1241.6664.1124000		1241.6404			

o Standard Version

* Various designs

	Vandal-proof mechanical switches							
MOUNTING DIAMETER	Ø19mm		Ø19mm		Ø19mm		Ø19mm	
SWITCHING FUNCTION	NO, NC, NO/NC		NO/NC		NO		NO	
HOUSING MATERIAL	Stainless steel		Stainless steel		Zinc diecasting		Zinc diecasting/ Stainless steel	
SWITCHING CURRENT MAX.	5 / 3 A		5 / 3 A		125 mA		125 mA	
SWITCHING VOLTAGE MAX.	125 / 250 VAC		125 / 250 VAC		48 VDC		48 VDC	
IP RATING	IP 67		IP 65 / IP 69K		IP 65		IP 65	
IK RATING	IK 07		IK 07		IK 05		IK 05	
TEMPERATURE	-25°C to +85°C		-25°C to +85°C		-20°C to +60°C		-20°C to +60°C	
			NEW 					
TYPE	**MSM 19 RI Stainless Steel**		**MSM 19 CS**		**MCS19 Zinc Diecasting**		**MCS19 Zinc Diecasting/ Stainless Steel**	
APPROVALS* *microswitch								
SWITCHING ACTION	1-pole momentary		1-pole momentary ceramic actuator		1-pole momentary		1-pole momentary	
	Housing	Actuator	Housing	Actuator	Housing	Actuator	Housing	Actuator
ZINC DIECASTING					o	o	o	
STAINLESS STEEL	o	o	o					o
ALUMINUM								
CERAMIC				o				
	All switches are supplied with nut and o-ring seal							
	Part number							
TERMINALS								
FASTON	o							
PINS					1241.2800.xxx		1241.2805.xxx	
PINS W. SOLDERING AID					1241.2801.xxx		1241.2806.xxx	
WIRE LEADS					*		*	
****CLIP FOR PINS**					1241.2802.xxx		1241.2807.xxx	
SOLDER TERMINALS								
ILLUMINATION VOLTAGE	24 VDC *12 & 5 VDC on request*		24 VDC *12 & 5 VDC on request*					
RED	1241.6624.1121000		1241.7026.1121000					
GREEN	1241.6624.1122000		1241.7026.1122000					
YELLOW								
RED/GREEN								
BLUE	1241.6624.1124000		1241.7026.1124000					
WHITE	1241.6624.1125000							

o Standard Version
xxx Specification for lettering
* Various designs
** Accessory clip for terminal pins can be ordered separately, item 0701.9233

	Vandal-proof mechanical switches							
MOUNTING DIAMETER	Ø19mm		Ø19mm		Ø19mm		Ø19mm	
SWITCHING FUNCTION	N.O.		N.O.		N.O.		N.O.	
HOUSING MATERIAL	Stainless steel		Zinc diecasting		Zinc diecasting		Zinc diecasting	
SWITCHING CURRENT MAX.	125 mA		125 mA		125 mA		125 mA	
SWITCHING VOLTAGE MAX.	48 VDC		48 VDC		48 VDC		48 VDC	
IP RATING	IP 65		IP 65		IP 65		IP 65	
IK RATING	IK 05		IK 05		IK 05		IK 05	
TEMPERATURE	-20°C to +60°C		-20°C to +60°C		-20°C to +60°C		-20°C to +60°C	
								
TYPE	**MCS19 Stainless Steel**		**MCS19 Actuator Varnished**		**MCS19 Housing Varnished**		**MCS19 Illuminated**	
SWITCHING ACTION	1-pole momentary		1-pole momentary		1-pole momentary		1-pole momentary	
	Housing	Acuator	Housing	Actuator	Housing	Actuator	Housing	Actuator
ZINC DIECASTING			o	*	o		o	
STAINLESS STEEL	o	o	*	o		o		o
ALUMINUM								
			All switches are supplied with nut and o-ring seal					
			Part number					
TERMINALS								
PINS	1241.2820.xxx		1241.2877.3.xxx		1241.2873.3.xxx			
PINS W. SOLDERING AID	1241.2821.xxx		1241.2878.3.xxx		1241.2874.3.xxx		o	
WIRE LEADS	*		*		*		*	
****CLIP FOR PINS**	1241.2822.xxx		1241.2879.3.xxx		1241.2875.3.xxx		*	
SOLDER TERMINALS								
ILLUMINATION VOLTAGE								
RED							1241.2855.xxx	
GREEN							1241.2856.xxx	
YELLOW							1241.2857.xxx	
RED/GREEN							1241.2858.xxx	
BLUE							1241.2859	

xxx Specification for lettering

* Various designs

** Accessory clip for terminal pins can be ordered separately, item 0701.9233

	Piezo switches			
MOUNTING DIAMETER	Ø16mm	Ø16mm	Ø16mm	Ø16mm
SWITCHING FUNCTION	N.O.	N.O.	N.O.	N.O. with prolonged signal
HOUSING MATERIAL	Plastic (PBT, UL 94) (PBT, UL 94)	Aluminum anodized/ stainless steel stainless steel	Aluminum anodized	Aluminum anodized
SWITCHING CURRENT MAX.	100 mA	100 mA	40 mA	1 A
SWITCHING VOLTAGE MAX.	42 VAC / 60 VDC	42 VAC / 60 VDC	24 VAC/DC	32 VAC / 48 VDC
IP RATING / IK RATING	IP 69K / IK 02	IP 69K / IK 02	IP 69K / IK 02	IP 69K / IK 02
TEMPERATURE	-40°C to +85°C	-40°C to +85°C	-20°C to +60°C	-20°C to +60°C
				
TYPE	**PSE M16**	**PSE M16**	**PSE M16 EX Explosion Proof**	**PSE M16 Prolonged Signal**
TERMINALS				
FASTON	*			°
PINS	°	°	°	
WIRE LEADS				
****CLIP FOR PINS**	**	**		
	All switches are supplied with nut and o-ring seal			
	Part number			
COLOR				
ALUMINUM NATURAL	1241.2352	1241.2411.8	1241.2415.8	1241.2434.8
GOLD	*	1241.2411.1.xxx	1241.2415.1	1241.2434.1.xxx
RED	1241.2350.xxx	1241.2411.3.xxx	1241.2415.3	1241.2434.3.xxx
BLUE	*	1241.2411.4.xxx	1241.2415.4	1241.2434.4.xxx
GREEN	*	1241.2411.5.xxx	1241.2415.5	1241.2434.5.xxx
BLACK	1241.2353.xxx	1241.2411.7.xxx	1241.2415.7	1241.2434.7.xxx
STAINLESS STEEL	*	1241.2611.xxx		

The explosion-proof type of our PSE switches was specifically designed for potentially explosive areas and is tested to type of production "i" according to DIN EN 50014/20 (Ex ib IICT4). Due to contact-less circuitry there is no danger of igniting explosive goods.

* Various designs

° Standard version

** Clip for terminal pins must be ordered separately, item 0098.9207 PU 10 pcs.

xxx Specification for lettering

	Piezo switches			
MOUNTING DIAMETER	Ø16mm	Ø16mm	Ø19mm	Ø19mm
SWITCHING FUNCTION	N.O.	N.O.	N.O.	N.O.
HOUSING MATERIAL	Aluminum anodized	Aluminum anodized	Aluminum anodized	Aluminum anodized
SWITCHING CURRENT MAX.	100 mA	100 mA	100 mA	150 mA
SWITCHING VOLTAGE MAX.	42 VAC / 60 VDC	42 VAC / 60 VDC	42 VAC / 60 VDC	50 VDC
IP RATING / IK RATING	IP 69K / IK 02	IP 69K / IK 02	IP 69K / IK 02	IP 69K / IK 02
TEMPERATURE	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
				
TYPE	**PSE M16 Faston**	**Indicator M 16**	**M19**	**M19 Flat Front Design**
TERMINALS				
FASTON	°	°	*	°
PINS			°	
WIRE LEADS				*
****CLIP FOR PINS**			**	
ILLUMINATION		point ill. 24 VDC		
	All switches are supplied with nut and o-ring seal			
	Part number			
COLOR OF HOUSING, ILLUMINATION				
ALUMINUM NATURAL	1241.3003		1241.3123	On request
ALUMINUM NATURAL, RED		1241.3003.M		
ALUMINUM NATURAL, GREEN		1241.3034.M		
ALUMINUM NATURAL, YELLOW		1241.3035.M		
RED	1241.3000.xxx			
RED, RED		1241.3036.M		
GREEN	1241.3001.xxx			
GREEN, GREEN		1241.3037.M		
BLACK	1241.3002.xxx			
GOLD, YELLOW		1241.3038.M		
STAINLESS STEEL				

* Various designs

° Standard version

** Clip for terminal pins must be ordered separately, item 0098.9207 PU 10 pcs.

xxx Specification for lettering

	Piezo switches			
MOUNTING DIAMETER	Ø22mm	Ø22mm	Ø22mm	
SWITCHING FUNCTION	N.O. with prolonged signal	N.O.	N.O.	
HOUSING MATERIAL	Aluminum anodized	Aluminum anodized/ Stainless steel	Stainless steel	
SWITCHING CURRENT MAX.	1 A	100 mA	100 mA	
SWITCHING VOLTAGE MAX.	32 VAC / 48 VDC	42 VAC / 60 VDC	42 VAC / 60 VDC	
IP RATING / IK RATING	IP 69K / IK 02	IP 69K / IK 02	IP 69K / IK 06	
TEMPERATURE	-20°C to +60°C	-40°C to +85°C	-40°C to +85°C	
				
TYPE	**PSE M22 Temperature Compensation**	**PSE M22**	**PSE M22 High Impact**	
TERMINALS				
FASTON				
PINS		°		
WIRE LEADS	° 200 mm		° 200 mm	
****CLIP FOR PINS**		**		
	All switches are supplied with nut and o-ring seal			
	Part number			
COLOR				
ALUMINUM NATURAL	1241.3998	1241.3008		
GOLD				
RED		1241.3005.xxx		
BLUE				
GREEN		1241.3006.xxx		
BLACK		1241.3007.xxx		
STAINLESS STEEL		*	1241.3993.xxx	

* Various designs

° Standard version

** Clip for terminal pins must be ordered separately, item 0098.9207 PU 10 pcs.

xxx Specification for lettering

	Illuminated Piezo switches and indicators			
MOUNTING DIAMETER	Ø22mm	Ø22mm	Ø24mm	
SWITCHING FUNCTION		N.O	N.O	
HOUSING MATERIAL	Aluminum anodized/ Stainless steel	Aluminum anodized	Aluminum anodized/ Stainless steel	
SWITCHING CURRENT MAX.	100 mA	100 mA	100 mA	
SWITCHING VOLTAGE MAX.	42 VAC / 60 VDC	42 VAC / 60 VDC	42 VAC / 60 VDC	
IP RATING / IK RATING	IP 69K / IK 02	IP 69K / IK 02	IP 69K / IK 02	
TEMPERATURE	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	
				
TYPE	**PSE M22 PI**	**PSE M22 RI**	**PSE M24 RI**	
TERMINALS				
FASTON	°			
PINS				
WIRE LEADS	x (200 mm)	*	x (200 mm)	
ILLUMINATION	point ill. 24 VDC	ring ill. 12 / 24 VDC	ring ill. 24 VDC	
	All switches are supplied with nut and o-ring seal			
	Part number			
COLOR OF HOUSING, ILLUMINATION				
ALUMINUM NATURAL, RED	1241.3020.M	1241.3253 (12V) 1241.3259 (24V)	*	
ALUMINUM NATURAL, GREEN	1241.3089.M	1241.3254 (12V) 1241.3260 (24V)	*	
ALUMINUM NATURAL, YELLOW	1241.3047.M			
ALUMINUM NATURAL, RED/ GREEN		1241.3255 (12V) 1241.3261 (24V)	1241.3010 *1241.3134*	
ALUMINUM NATURAL, BLUE	1241.3244.M			
RED, RED	1241.3166.M			
GREEN, GREEN	1241.3167.M			
GOLD, YELLOW	1241.3222.M			
STAINLESS STEEL			*	

° Standard version

* Various designs

12V version available upon request

	Illuminated Piezo switches	
MOUNTING DIAMETER	Ø27mm	Ø30mm
SWITCHING FUNCTION	N.O.	N.O
HOUSING	Aluminum anodized/	Aluminum anodized/
MATERIAL	Stainless steel	Stainless steel
SWITCHING CURRENT MAX.	100 mA	100 mA
SWITCHING VOLTAGE MAX.	42 VAC / 60 VDC	42 VAC / 60 VDC
IP RATING / IK RATING	IP 69K / IK 02	IP 69K / IK 02
TEMPERATURE	-40°C to +85°C	-40°C to +85°C
		
TYPE	**PSE M27 RI**	**PSE M30 RI**
TERMINALS		
FASTON		
PINS		
WIRE LEADS	x (200 mm)	x (200 mm)
ILLUMINATION	ring ill. 24 VDC	ring ill. 24 VDC
	All switches are supplied with nut and o-ring seal	
	Part number	
COLOR OF HOUSING, ILLUMINATION		
ALUMINUM NATURAL, RED	*	*
ALUMINUM NATURAL, GREEN	*	*
ALUMINUM NATURAL, RED/ GREEN	1241.3011 *1241.3138*	1241.3012 *1241.3230*
ALUMINUM NATURAL, BLUE		1241.3189
STAINLESS STEEL	*	1241.3237*

*Various designs

12V version available upon request

MOUNTING DIAMETER	Ø10mm	Ø18mm
ACTION	Momentary / Latching	Momentary
FUNCTION	NO / NC	NO
SWITCHING CURRENT MAX.	200 mA	*125 mA
SWITCHING VOLTAGE MAX.	60 VAC / 50 VDC	48 VDC
IP RATING	40	65
		
TYPE	**LDT / LDS**	**MCS 18 Front**
APPROVALS		
CONTACT	1 or 2 pole	1 pole
FRONT PANEL MOUNTING	• and pcb	•
ILLUMINATION AVAILABLE	•	

* Silver contacts

MOUNTING DIAMETER	18mm	Ø10mm
ACTION	Momentary / Latching	Momentary
FUNCTION	NO	EMERGENCY STOP
SWITCHING CURRENT MAX.	5 A VAC	5 A VAC
SWITCHING VOLTAGE MAX.	250 VAC	250 VAC
IP RATING	IP 40 / IP 67	IP 65
		
TYPE	**EMF**	**SBF / SEK**
APPROVALS		
CONTACT	1-4 pole	1 or 2 pole
FRONT PANEL MOUNTING	•	•
ILLUMINATION AVAILABLE	•	•

DIMENSIONS	7.2mm	7.5mm	6mm
ACTION	Momentary	Momentary	Momentary
FUNCTION	NO / N C	NO	NO
SWITCHING CURRENT MAX.	silver: 2A VAC, 1.2 A VDC gold: 80 mA VAC/VDC	200 mA	50 mA
SWITCHING VOLTAGE MAX.	125 VAC, 50 VDC	60 VAC, 50 VDC,	12 VDC
IP RATING	IP 40	IP 40 / IP 65	IP 40
			
TYPE	**SDK**	**HDT**	**LSH, LSG, LPH, LPS, LPV 1/4"**
CONTACT	1	2 pole	1 pole
THROUGH HOLE MOUNTING	•	•	•
SURFACE MOUNTING		•	•
ILLUMINATION AVAILABLE		•	

DIMENSIONS	11.4mm	12.7mm	Ø18mm
ACTION	Momentary	Momentary	Momentary
FUNCTION	NO	NO	NO
SWITCHING CURRENT MAX.	50 mA	silver: 125 mA gold: 50 mA	silver: 125 mA / gold: 80 mA
SWITCHING VOLTAGE MAX.	30 VAC, 42 VDC,	silver : 48 VDC gold: 24 VDC	silver : 48 VDC / gold: 24 VDC
IP RATING	IP 40 / 67	IP 40	IP 65
			
TYPE	**SMS, PMS**	**MTG 1/2"**	**MCS 18 Print**
CONTACT	1 pole	1 pole	1 pole
THROUGH HOLE MOUNTING	•	•	•
SURFACE MOUNTING	•		
ILLUMINATION AVAILABLE			

MOUNTING STYLE	PCB mounting	PCB mounting	
LED	3 mm	without	
BODY	thermoplastic	thermoplastic	
			
TYPE	**ASL**	**AST**	
INDICATOR TYPE	LED-Holder	LED-Holder	
NUMBER OF HOLDER/ ARRANGEMENT	1-8	1-8	
LED COLOR	red, green, yellow		

MOUNTING STYLE	PCB mounting	Frontpanel / PCB mounting	
LED	3 mm	3 mm and 5 mm	
BODY	thermoplastic	thermoplastic	
			
TYPE	**PBL**	**SRL**	
INDICATOR TYPE	LED-Holder	LED-Holder	
LED COLOR	red, green, yellow	red, green, yellow	

MOUNTING STYLE	Panel mounting		
LED	3 mm and 5 mm		
BODY	metallic		
			
TYPE	**LFM**		
BUILT-IN RESISTOR	•		
INCANDESCENT / NEON LAMP			
REFLECTOR	•		
INDICATOR TYPE	LED Reflector Holder		
LED COLOR	red, green, yellow		

	Piezo Keypads	
MOUNTING DIMENSION	78 x 97 mm	97 x 97 mm
	NEW 	NEW 
TYPE	**12 Keypoints**	**16 Keypoints**
TEMPERATURE	-25°C to + 85°C.	-25°C to + 85°C.
LETTERING	Standard lettering	
IP / IK RATING	IP 69K IK 05	IP 69K IK 05
	Part number	
FRONT ALUMINUM, REAR MOUNT, MULTI PIN CONNECTOR	1068.1012.1110001	1068.1016.1110001 (non-illuminated) 1068.1016.1112001 (point illumination)
ILLUMINATION VOLTAGE		5 VDC
ACCESSORY KIT	1068.1012.340	1068.1016.340

Metal switch with colored anodized design

Due to the design possibility for coloring the housing and the actuator, the MSM switch may be better adapted to the housing design.

With the signal colors red and green the switching function of the MSM switch can be visually enhanced. For this version the housing or the actuator is made of aluminum.

EMS

From idea to production

Production

Functional testing

SCHURTER
Electronic Manufacturing Services

Through its EMS Division, with locations in Switzerland, Romania and Italy, SCHURTER Electronic Manufacturing Services offers suitable system solutions for these customer needs as well.

Range of services
Do you have a concept for an electronic assembly, an appliance, or an entire system, and you are looking for an implementation partner?
– SCHURTER Electronic Manufacturing Services offers you ideal system solutions, from development, PCB production and the testing concept to delivery. We support your product's life cycle from development to mass production. In other words, we offer support all the way to complete custom-order manufacturing.

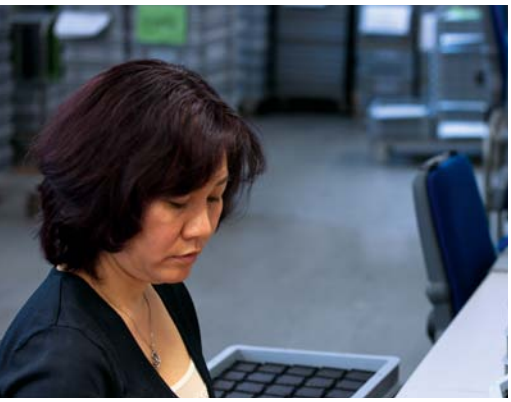
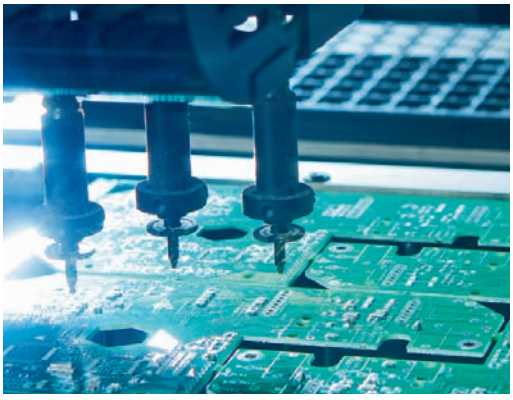
From initial idea to mass production
We will handle and organize all processes according to your requirements:
- Development & product certification
- Design to manufacturing support
- Prototyping and pre-production manufacturing
- Testing equipment & concepts
- Materials & life cycle management
- Production (electromagnetic components, electronics manufacturing, appliance and systems assembly)
- Logistics
- After-Sales Service (repairs and replacement parts service)

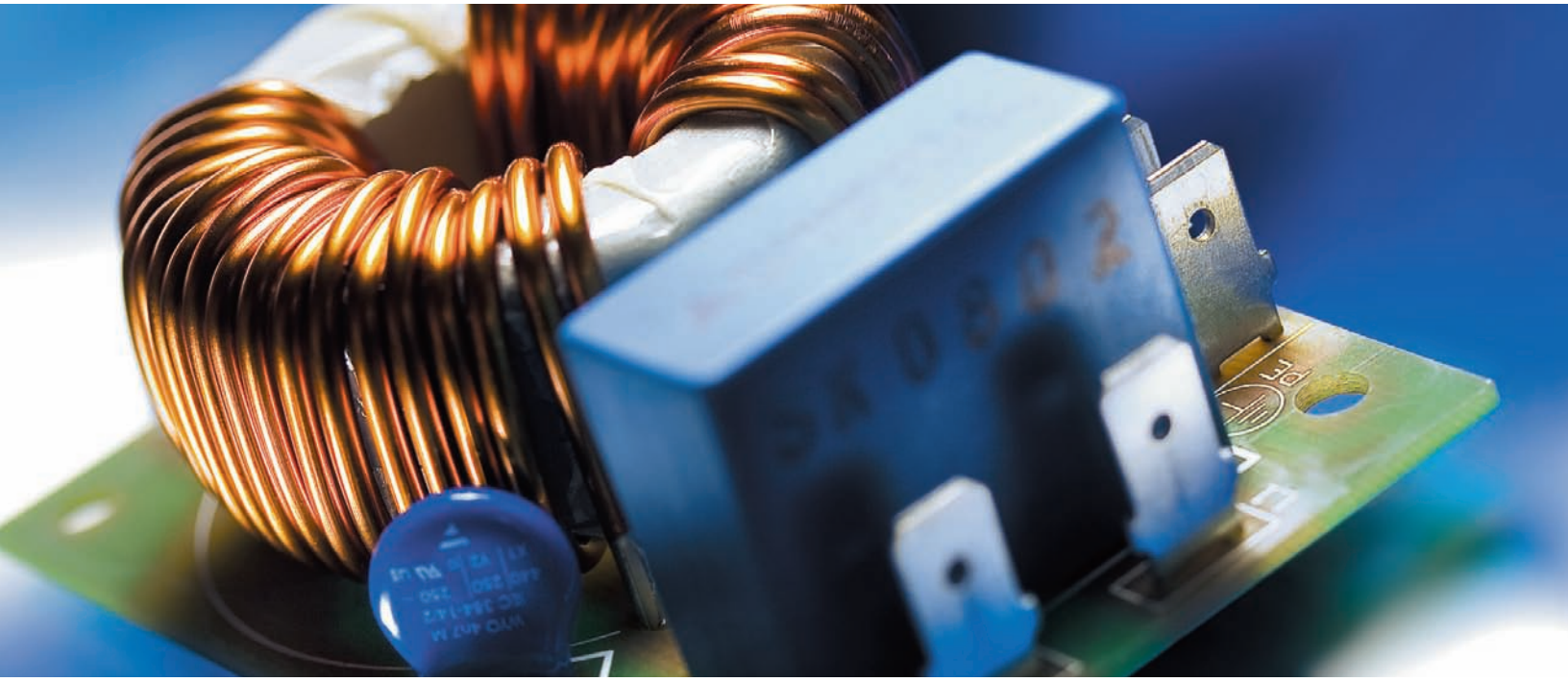
Areas of application
SCHURTER Electronic Manufacturing Services produces and installs electronic assemblies, complete appliances and systems. We specialize in high quality complex industrial input systems and electromagnetic transmissions systems. We have superb expertise in using passive components, particularly to solve EMC problems, and in implementating touch screen operating system concepts.

Partnership
For us, success means realizing your ideas with a perfect solution that is flexible, efficient, and implemented with the best possible support. We are used to innovatively meeting the challenges of different markets, regardless of whether you intend to actualize components, modules, devices, or entire systems with us. With our profound expertise and our wide range of technologies, we are ideally prepared for these challenges.

Production
SCHURTER Electronic Manufacturing Services offers consistent high quality and absolute product reliability. State-of-the-art machinery and up-to-date technical expertise guarantee the realization of our motto: "Safe & Easy".

Production covers the following areas:
- Prototype production
- THT assembly (fully automated axial and radial systems)
- SMD assembly: Package to 0201, BGA, pitch 02
- Assembly capacity: 100k components per hour
- Reflow soldering processes
- Wave soldering equipment
- BGA desoldering stations (certified BGA rework system)
- Winding materials manufacturing
- In-circuit (ICT), functional and flying probe testing
- X-ray inspection
- AOI in/out line
- Burn-in/run-in
- Temperature and climate testing



Quality and certification

The qualification of our products and the provisioning of customer specific test systems is performed using state-of-the-art testing equipment. A high level of process reliability is achieved through automating complex workflows using semi and fully automatic machines. Constant process monitoring ensures that the highest standards are met.

We have attained our position in the market and earned the trust of our customers not least through our dedication to quality. Continuous investment in state-of-the-art equipment and employee training ensures that we can meet the highest expectations. All these goals we achieve by consistently implementing our certified quality and environmental management systems and by adhering to the relevant standards and guidelines:

We manage, monitor and improve our processes using various management systems designed and certified in accordance with ISO 9001, ISO 14001 and OHSAS 18001.

Contact

If you have a product concept and wish to use our services, do not hesitate to get in touch with us. We are happy to accept your challenge.

www.schurterinc.com
info@schurterinc.com

Wire Harnesses

Custom wiring assemblies - fast, flexible

SCHURTER offers a wide range of IEC 60320 inlets, outlets and power entry modules custom fitted with wires, cables and wire connectors for an overall more efficient drop in solution. Visit SCHURTER's website at http://www.schurterinc.com/en/Components/Connectors/Wire-Harness-Request to configure your ready to install assembly and request for quote.

Wire selection includes AWG 18, 16 & 14 according to UL 3266 in standard colors such as brown, black, bright blue, yellow-green. Wire connectors include quick-connect with full, part or without insulation, as well as ring terminals in popular sizes. Have other requirements not showing in our standard offering? Follow the web address above or send an e-mail to info@schurterinc.com.

Thermal Requirements of a Fuseholder Used Alone or with a Power Entry Module

Influencing factors

The design engineer of electrical equipment is responsible for its safety and functioning to humans, animals and real values. Above all, it is his task to make sure that the state of the art as well as the valid national and international standards and regulations be observed.

Considering the safety of electrical equipment, the selection of the most suitable fuseholder is of great importance. Among other parameters, one has to make sure that the maximum admissible power acceptances and temperatures defined by the manufacturer are followed. Conflicting definitions and requirements in the most important standards for fuse-links and fuseholders are time and again the source for incorrect selection of fuseholders.

To equate the rated current of a fuse-link with the rated current of the fuseholder, especially at higher currents, may cause too high, inadmissible temperatures, when the influence of the power dissipation in the contacts of the fuseholder is not taken into consideration.

For a correct selection the following influence factors depending on the application and mounting method, have to be taken into consideration.

It is recommended testing the fuseholder with the chosen fuse-link in the worst case operating condition.

1. Rated power dissipation of the suitable fuse-link.
2. Admissible power acceptance, operating current and temperatures of the suitable fuseholder.
3. Different ambient air temperature outside and inside of the equipment.
4. Electrical load alternation
5. Long time (> 500 h) operation with load > 0.7 I_n.
6. Heat dissipation/cooling and ventilation. Heat influence of adjacent components.
7. Length and cross section of the connecting wire.

Rated current of a fuseholder
The value of current assigned by the manufacturer of the fuseholder and to which the rated power acceptance is referred.

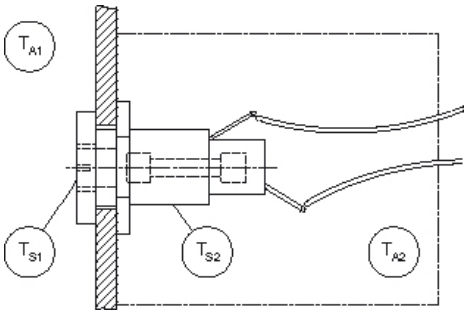
Rated power dissipation of the fuse-link
(power dissipation at rated current)

Rated power acceptance and admissible temperatures of a fuseholder.
The rated power acceptance of a fuseholder is determined by a standardized testing procedure according to IEC 60127-6. It is intended to be the power dissipation caused by the inserted dummy fuse-link at the rated current of the fuseholder and at an ambient air temperature of $T_{A1} = T_{A2}$ = 23 °C (over a long period). During this test the following temperatures must not be exceeded on the surface of the fuseholder:

Fuseholder surface area	Maximum allowable temperature measuring points (see figure)	°C
1. Accessible parts [1]	T_{S1}	85
2. Inaccessible parts [1] Insulating parts	T_{S2}	[2]

Notes:
1) When the fuse-holder is properly assembled, installed and operated as in normal use, e.g. on the frontpanel of equipment.
2) The maximum allowable temperature of the used insulating materials corresponds to the Relative Temperature Index (RTI) according to IEC 60216-1 or UL 746 B.

Illustration of temperatures experienced in practice

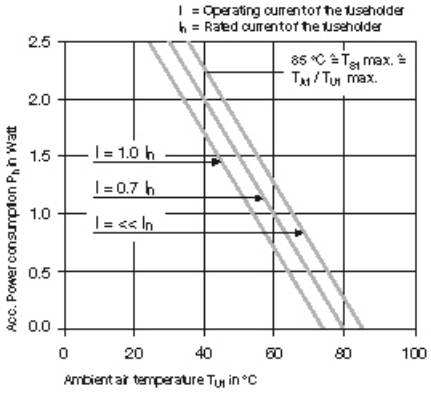


T_{A1} = ambient air temperature, surrounding the equipment
T_{A2} = ambient air temperature in the equipment
T_{S1} = temperature of accessible parts on fuseholder surface
T_{S2} = temperature of inaccessible parts on fuseholder surface

Correlation between operating current I, ambient air temperature T_{A1} and the power acceptance P_h of the fuseholder.

This correlation is demonstrated by derating curves.

Example of a derating curve



The derating curves demonstrate the admissible power acceptance of a fuseholder depending on the ambient air temperature TA1 for the following fuseholder operating currents: I << I_n, I = 0.7 • I_n and I = 1.0 • I_n. This power acceptance corresponds to the max. admissible power dissipation of a fuse-link.

The corresponding values for other operating currents can be interpolated between the existing curves or calculated as follows:

$$P_h = P_o - P_c = P_o - (R_c \bullet I^2)$$

P_h= admissible power acceptance in watt of the fuseholder, depending on T_{A1}.
P_o= admissible power acceptance in watt of a fuseholder at I << I_n, depending on T_{A1}. The values can be taken from the derating curve I << I_n of the corresponding fuseholder.
P_c= power dissipation in watt in the fuseholder contacts at the operating current in ampere.
I = operating current in ampere of the fuseholder.
R_c= contact resistance in ohm between the fuseholder terminals according to SCHURTER's catalogue.

Selection

Selection of a suitable fuseholder with respect to the power acceptance at the corresponding ambient air temperature.

Summary

The adherence to the limits, indicated by SCHURTER, in particular the power acceptance limits at the corresponding ambient air temperatures and mounting conditions of the fuseholder, is important for the safety of the product. It is therefore necessary to observe the following two steps:

Step 1

Selection of the fuseholder based on the power acceptance
P_h at operating current I and maximum ambient air temperature TA1.
$P_f \leq P_h = P_O - P_C = P_O - (R_C \bullet I^2)$
P_f = rated power dissipation in watt of the fuse-link, calculated from (I_n. U), whereas:
I_n = rated current in ampere of the fuse-link
U = voltage drop in volt at In; values according to SCHURTER's catalogue.
P_h, P_O, P_C, R_C = see pos. 2.5

Step 2

The reduction of the power acceptance of the fuseholder (from step 1) based on the different conditions at the mounting place etc. have to be determined by the design engineer responsible.

Examples:

- ambient air temperature is considerably higher inside of an equipment than outside ($T_{A2} > T_{A1}$)
- cross-section of the conductor, unfavorable heat dissipation
- heat influence of adjacent components

Therefore, temperature measurements on the appliance under normal and faulty conditions are absolutely necessary.

Example

What's given?

- Fuse-link FSF 0034.1523, rated current I_n = 5 A. Voltage drop ΔU at I_n = 80 mV, typ.

Rated power dissipation $P_f = (I_n \bullet \ ) = (5\ A \bullet 0.08\ V) = 0.4$ W.

- Fuseholder FEF 0031.1081, rated current I_n = 10 A
  Rated power acceptance at T_{A1} 23 °C = 3,2 W.
- Ambient air temperature = 50 °C.
  Admissible power acceptance Ph at an ambient air temperature TA1 50 °C according to the derating curve:

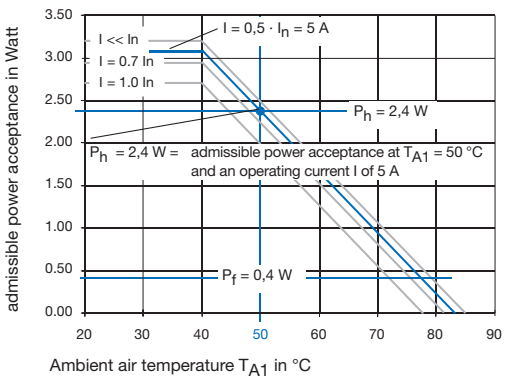
P_h at I << I_n = 2.5W
I = 0.7 • I_n = 7 A = 2.2W
I = 1.0 • I_n = 10 A = 2 W

- Contact resistance R_C = 5 mΩ

What is the admissible power acceptance Ph of the fuseholder?

The result of the interpolation for the rated current I = 5 A
is a P_h of approx. 2,4 W.
The result of the calculation is
$P_h = P_O - (R_C \bullet I^2) = 2.5 - (0.005 \bullet 52) = 2.37$ W P≈2.4 W.

Derating curves of the fuseholder, type FEF, rated current I_n = 10 A



Verification of the thermal requirements

Step 1
Thefollowing condition must be fulfilled:
P_f P_h this means: the rated power dissipation P_f of the fuse-link must be less/equal than the admissible power acceptance Ph of the fuseholder.
P_f = 0.4 W; P_h = 2.4 W at T_{A1} = 50 °C

Step 2
To consider the different conditions at the mounting place

Conclusion (without consideration of step 2)

- The value P_f is less than P_h. The condition according to formula is fulfilled. It has been chosen a suitable fuseholder.
- If the value P_f were greater than P_h the condition wouldn't be fulfilled. In that case, do select another fuseholder with a higher power acceptance or change the thermal conditions at the fuseholder mounting place.

Standards for fuseholders

IEC 60127-6	Fuseholders for miniature fuse-links
NF C93-436	Fuseholders for professional purposes
UL4248-1	Fuseholders
CSA C22.2 NO. 4248.1-07	Fuseholder assemblies

IEC: International Electrotechnical Commission
UL: Underwriters Laboratories Inc. USA
CSA: Canadian Standards Association
NF: French Standard

Explanation to the main fuseholder standards

As mentioned in section 2, the most relevant standards define rated current and rated power acceptance differently. This lead in the past often to confusion or even to a wrong fuseholder design-in.
For example the standard UL 512 does not define a maximum power acceptance value, but sets a certain value of temperature rise for the fuseholder. For this reason the marked amperage values on the fuseholder, defined by UL and CSA, are not suggested to be used except in special cases.

In order to eliminate such confusion, SCHURTER decided to define the rated current and rated power acceptance values according to IEC 60127-6 and EN 60127-6.
The most important definitions are to be found in section 2.

Conclusion
- The high UL and CSA current ratings are replaced by more realistic rated currents defined by SCHURTER.

- The design-in procedure and, in particular, choosing the correct fuseholder in terms of thermal requirements (refer to section 2-4), is now much easier.

Your advantages
- **Increased safety for your equipment**
- **Faster and much easier selection of the correct fuseholder**

TERMS AND CONDITIONS OF SALES

1. Shipments: Shipments, deliveries, payment terms and performance of work shall at all times be subject to the approval of the seller. The seller may, at any time, decline to make any shipment or delivery or perform any work except upon receipt of payment or security or upon terms and conditions satisfactory to the seller.

2. Prices: All prices quoted by the seller are net. List prices are subject to change without notice. Prices stated on this form are contingent upon acceptance of delivery by the buyer of all goods subject to this order within six (6) months and can be increased or decreased at the seller's option upon ninety (90) days' written notice by the seller. Subject to section 1, the seller's payment terms are net thirty (30) days, from the date of invoice. Pursuant to California law, a charge of one and one-half percent (1-1/2%) per month is made on the past due balance of any account in order to reimburse the seller for estimated administrative and other costs associated with delinquent accounts. The buyer agrees that such a charge is reasonable in the light of the anticipated or actual harm caused by reason of the Buyer's delinquency, the difficulties of proof of loss, and the inconvenience or non-feasibility of the seller otherwise obtaining a remedy. The buyer further agrees that such a charge is not an agreement, express or implied, to give further time for payment.

3. Taxes: The Buyer shall promptly pay any taxes which the seller may be required to pay or collect under any existing or future law for the account of the Buyer. California sales tax shall be added to shipments made within California unless a valid resale certificate has been filed with the Seller.

4. Costs: All transportation costs and insurance charges shall be invoiced to the buyer. F.O.B. point is Santa Rosa, California. The seller reserves the right to ship by carrier of its discretion unless otherwise specified by the buyer.

5. Warranty: If the goods furnished to the Buyer shall fail, due to defective material or workmanship, within one (1) year from the date of shipment, the Seller shall replace such non-conforming goods or repair such non-conforming goods without charge to the buyer. This warranty does not apply if the goods have been damaged by accident, abuse, misuse, modification or misapplication; by damage during shipment; or by improper service. The foregoing warranty is exclusive and NO OTHER WARRANTY, WHETHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A GENERAL OR PARTICULAR PURPOSE OR DESIGN SHALL EXIST IN CONNECTION WITH ANY OF THE GOODS SUPPLIED HEREUNDER. AND ALL SUCH WARRANTIES ARE HEREBY EXPRESSLY EXCLUDED. This warranty allocates the risk of the failure of goods between the Seller and the Buyer as authorized by applicable law. No employee, agent, dealer, or other person is authorized to give any warranties on behalf of the Seller or to assume for the Seller any other liability in connection with any of its goods except in writing and signed by an officer of the Seller.

Although the Seller makes every effort to ensure the accuracy of specifications at the time of publication, specifications for products described in this publication are subject to change without notice. The Seller makes no representation that the goods comply with any present or future federal, state, or local regulation or ordinance. Compliance is the Buyer's responsibility. The use of the Seller's goods should be in accordance with the provision of the national Electric Code, U.L., and/or other industry or military standards that are pertinent to the particular end use. Installation or use not in accordance with these codes and standards could be hazardous.

6. Claims: All goods shall be inspected by the Buyer when received, and every claim on account of defective material, workmanship, or shortages, or for any other cause, shall be deemed waived by the Buyer, unless made in writing and received by the Seller within thirty (30) days from the date of receipt of such goods to which such claim relates. Upon receipt of such claim, the Seller shall be given a reasonable opportunity to inspect such goods. No goods shall be returned to the Seller without the Seller's written authorization. Returned goods shall be subject to a 15% restocking charge, F.O.B. destination and prepaid. The Seller reserves the right to overship or undership by 5% on NON-STOCK items. No claim of any kind, whether as to goods delivered or for non-delivery of goods, shall be greater in amount than the purchase price of the goods in respect of which such damages are claimed.

7. Change Orders: Request for a scheduled delivery change or cancellation will be deemed waived by Buyer, unless the Seller is notified thirty (30) days prior to the original scheduled delivery. Cancelled orders shall be subject to a 10% cancellation charge.

8. Damages: IT IS EXPRESSLY AGREED THAT SECTION 6 STATES THE BUYER'S SOLE AND EXCLUSIVE REMEDY for any breach of warranty and for any claim for personal injury, property damage or commercial loss, whether sounding in contract, tort, strict liability or negligence, based on any defect on any goods of the Seller. Without limiting the generality of the preceding sentence, it is expressly agreed that the SELLER SHALL NOT BE RESPONSIBLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES WHATSOEVER, including any labor or other costs, incurred by the buyer as a result of such defect or incident to the repair or replacement, or inability to use, any good.

9. Force Majeure: The Seller shall be excused for any delay in performance due to acts of God, war, riot, embargoes, acts of civil or military authorities, fires, floods, accidents, quarantine restrictions, strikes, differences with workmen, delays in transportation, shortage of fuel, labor or materials, or any circumstantial cause beyond the control of the Seller in the reasonable conduct of business.

10. Modification of Agreement: This agreement cannot be modified in any way, except in writing, signed by the parties herein.

11. Waiver: Waiver by the Seller of a breach of any of the terms and conditions set forth above or on the reverse side shall not be construed as a waiver of any other or subsequent breach.

12. Governing Law: California law governs this transaction.

13. Collection Costs: In the event the Buyer defaults in the terms of payment, the Seller may recover from the buyer all costs of collection, including without limitation reasonable attorneys' fees, whether or not such collection includes the commencement of a lawsuit.

14. Terms and Conditions: The Seller accepts orders only upon the foregoing terms and conditions, which shall prevail notwithstanding any variance with the terms and conditions of any order submitted by the Buyer. Acceptance of delivery of the goods shall be deemed agreement herewith by the Buyer.

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www.cdiweb.com /schurter

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ca.digikey.com

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digikey.com.mx/Suppliers/mx/Schurter.page?lang=en

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- Fuseholder
- Technical Data for Line Switches
- Line Filters
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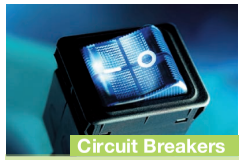
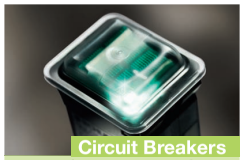


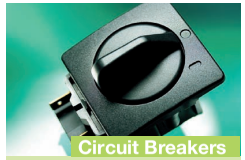
Circuit Breakers

TA35
1-, 2- and 3-pole Snap-in Thermal Circuit Breaker with Illuminated Rocker Switch up to 20 A @240 VAC



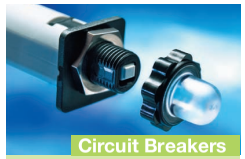
Circuit Breakers

TA35 w/Antibacterial Cover
2- pole Snap-in Thermal Circuit Breaker with Antibacterial cover, up to 20 A @ 240 VAC



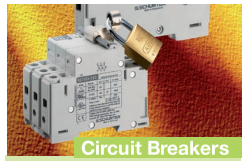
Circuit Breakers

TA35 with Rotary Switch
Thermal Circuit Breaker with Rotary Knob Actuation up to 20 A @ 240 VAC



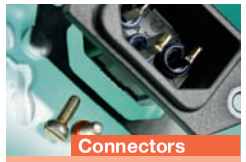
Circuit Breakers

T9
Single Pole Thermal Fuseholder Style Circuit Breaker (with cover option) Rated 3 - 16 A @ 240 VAC



Circuit Breakers

AS168X
UL 1077 / 508 DIN Rail Mount CBE for Motor Control with Lockout



Connectors

6100
IEC C14 Inlet with IP54 Seal Protection at the Panel and Power Input

Connectors

GSP4
PCB Mount IEC C20 Inlet Saves Space with Sandwich Style Mounting

Connectors

6610 / 4710
IEC Outlet Style "F" 10/15 A and "J" 16/21 A with IDC Terminals for Gang Mounting

Connectors

1681 / 1658 / 1659
Rewireable Cord Connectors C21, 16/21 A @155°C. Plugs into Inlet 1681 and Filtered Inlet C22F

Connectors

DD11 / DD12
DD Series Power Entry Module Offers Compact 1-, 2-pole Fusing and Switching

Connectors

V-Lock
Hospital Grade Cordsets Meet UL817 Testing. C13 & C19 Cord Connectors with Nema 5-15 Plugs

EMC Products

5008
Compact Power Entry Module with Filter, Class II, 2.5/6 A @ 250 VAC

EMC Products

5120 /5123
Standard or High Performance Filtered Inlet with Increased Inductance. Rated 15 A @ 250 VAC

EMC Products

C20F / C22F
Standard or High Temperature Filtered Inlet IEC C20 or C22. Rated 20A @ 70°C or 155°C

EMC Products

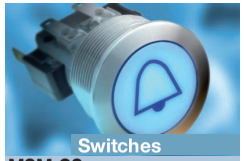
FMER / FMCC SOL
DC/AC filters for PV Systems, 25 - 1500 A @ 600/1000 VDC; 150 - 2500 A @ 520/690 VAC

EMC Products

FMAB / FMAC / FMAD / FMBB RAIL
1- and 3-Phase DIN Rail Mount EMC Filters

EMC Products

High Current Chokes
Rated 1-50 A, 300/600 VAC, Vertical and Horizontal THT Mount



Switches

MSM CS
Metal Switch AC or DC with Backlit Ceramic Actuator for Complete Illumination. 5/3A @ 125/250VAC, 0.1A @ 30VDC

Switches

MSM LA / DP
Metal Switches 1- or 2- Pole with Momentary or Latching Action. Rated 12 A @ 250 VAC

Switches

MSM Colored Housing
Metal Switch AC or DC 1- or 2-pole with Momentary Action. Rated 5/3 A @ 125/250 VAC, 0.1 A @ 30 VDC

Switches

PSE ATEX Approved
Switch for Use in Explosive Environments. ATEX class II 2 G Ex ib IIB T4, Rated 40 mA @ 24 VAC/DC

Switches

PSE IP69K
Piezo Switches with Seal-tight Protection Meet Protection Class IP69K. Rated 100 mA @ 42/60 VAC/DC

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