

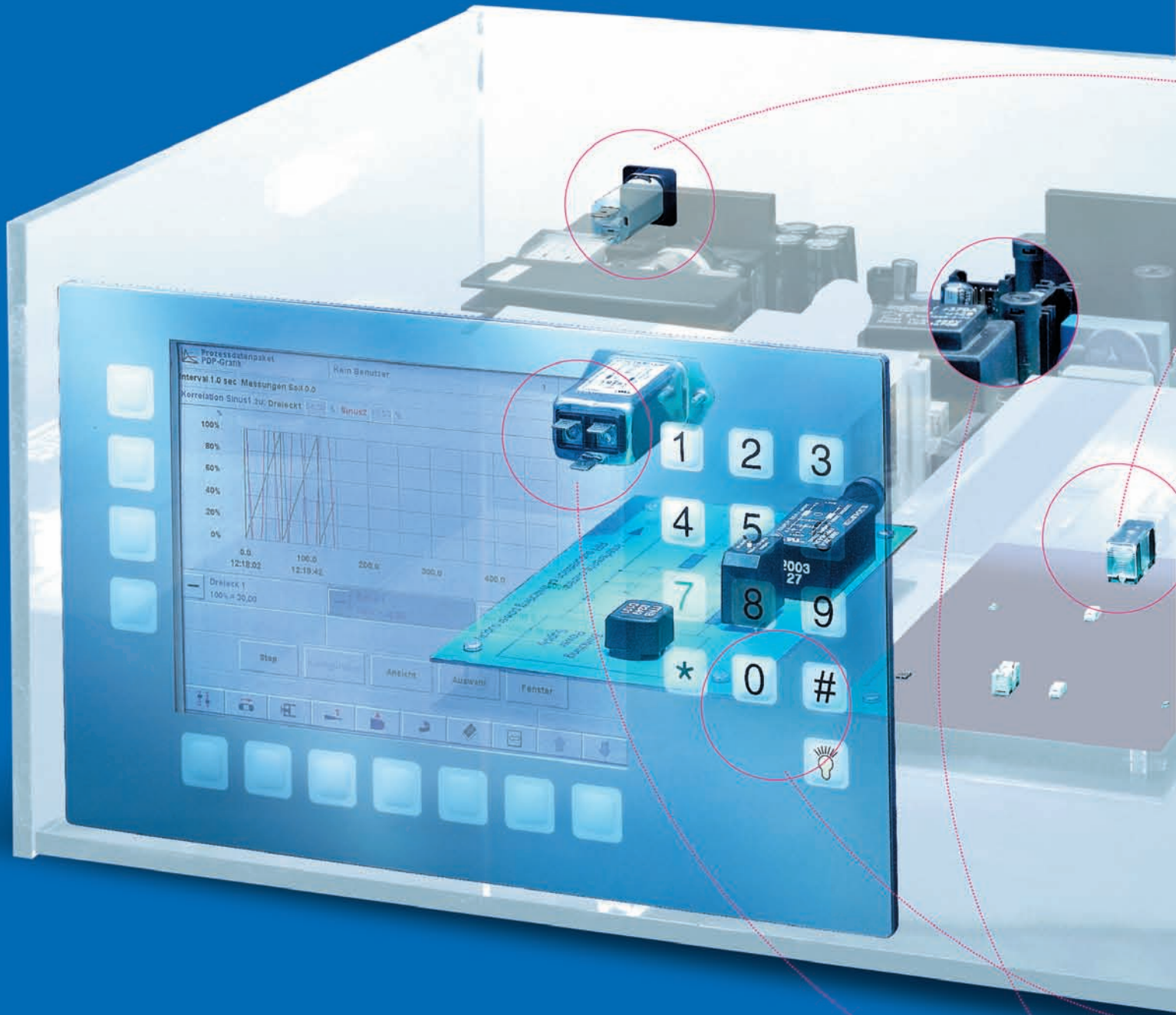
guide to the complete on-line catalog

 **SCHURTER**
ELECTRONIC COMPONENTS

Circuit Protection
Connectors
EMC Products
Switches
EMS

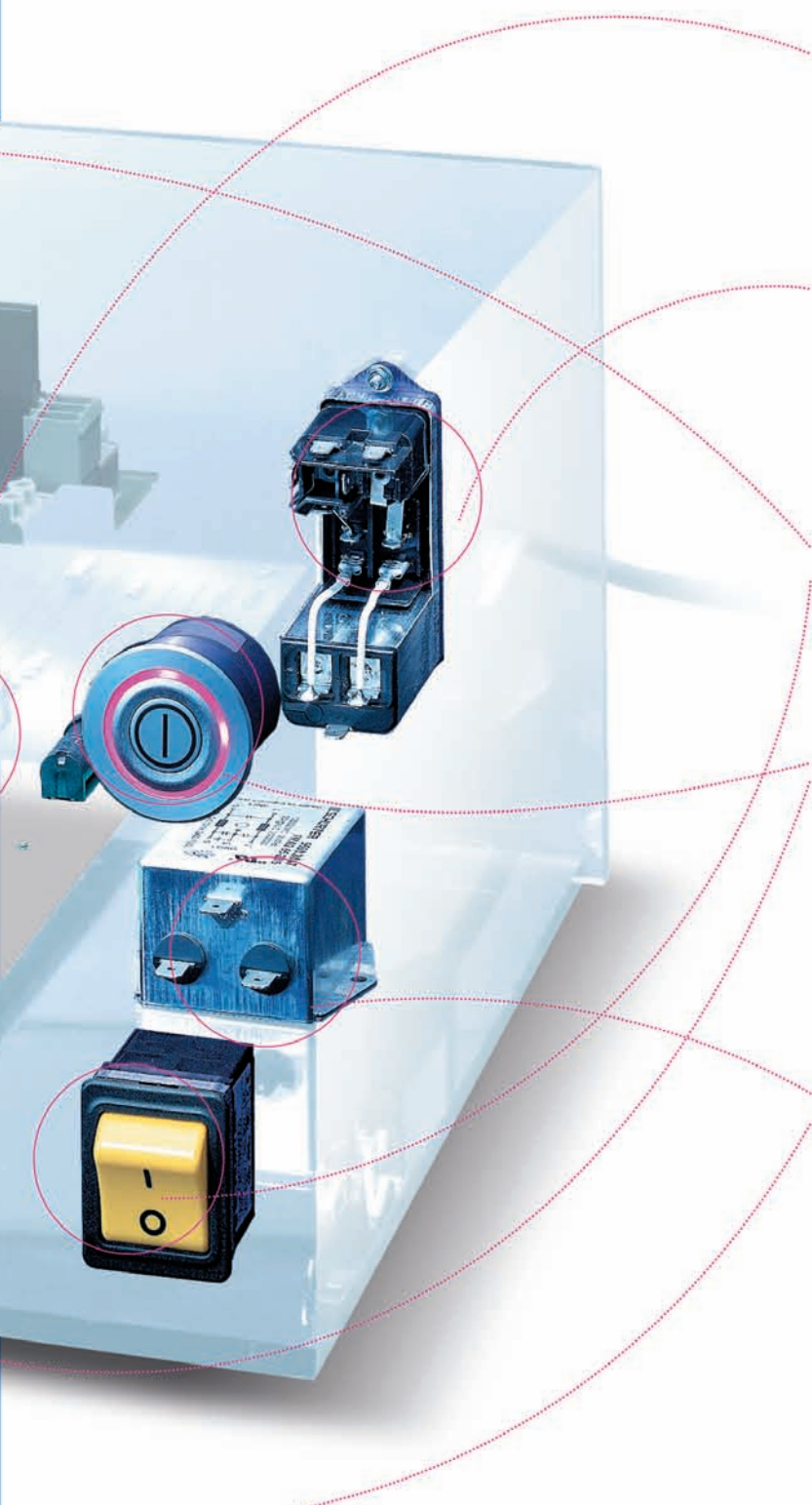
the SCHURTER range at a glance





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.



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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 manage, 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 our 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 not 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



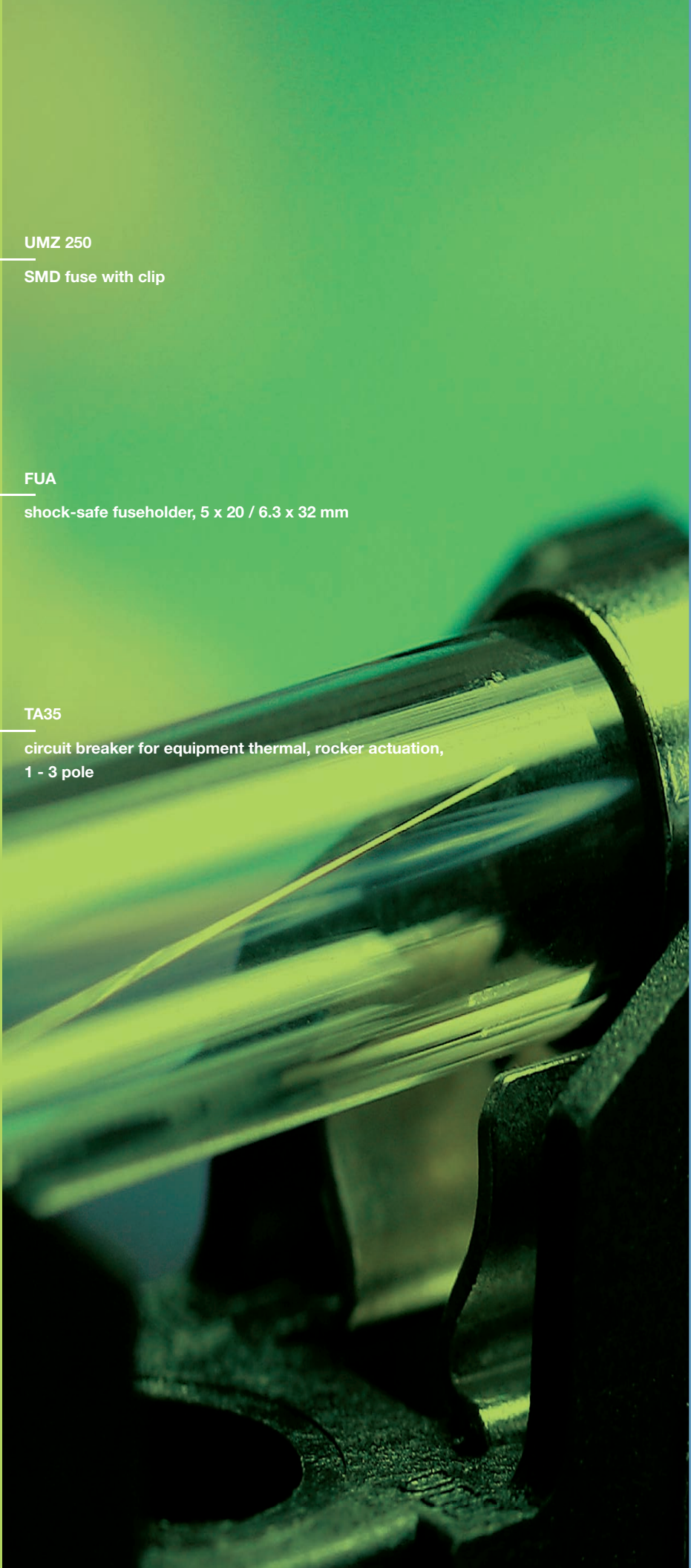
UMZ 250
SMD fuse with clip



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










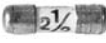




TA35
circuit breaker for equipment thermal, rocker actuation,
1 - 3 pole















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NON RESETTABLE FUSES





	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





NON RESETTABLE FUSES





	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		
				
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		

NON RESETTABLE FUSES

	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:






NON RESETTABLE FUSES

	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

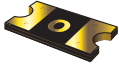



Miniature fuses with pigtails available in Tape & Reel:



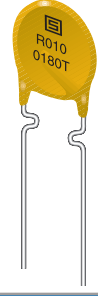



TELECOM FUSES

	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



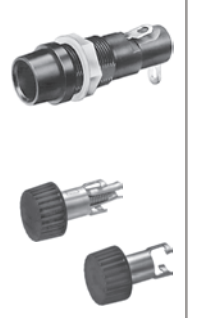


See pages 14-18 for fuseholders, fuse blocks and fuse clips






FUSEHOLDERS

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



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
					
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





FUSEHOLDERS

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	250 VAC / 400 VAC	250 VAC		
RATED CURRENT, IEC/UL	10A / 16A	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	250 VAC / 400 VAC	250 VAC	250 VAC	250 VAC / 400 VAC
RATED CURRENT, IEC/UL	10A / 16A	10A	10A / 12A	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
				
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	250 VAC	250 VAC / 400 VAC	500 VAC / 600 VAC	1000 VDC / 600 VDC
RATED CURRENT, IEC/UL	10A / 16A	10A / 16A	16A / 30A	(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





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
	 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	250 VAC / 600 VAC/DC	500 VAC/DC	600 VAC/DC	- / 1500 VAC/DC
RATED CURRENT, IEC/UL	6.3A / - (5x20mm); - / 32A (6.3x32mm)	- / 6.3A	- / 16A	- / 20A; - / 32A
*RATED POWER ACCEPTANCE @Ta 23°C			2.5W	






* See Thermal Requirements of a Fuseholder page 92

FUSEHOLDER BLOCKS AND CLIPS






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	125 VAC/125 VDC	125 VAC/125 VDC	125 VAC	250 VAC/125 VAC
RATED CURRENT, IEC/UL			- / 5A	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
TERMINALS	Solder THT			
RATED VOLTAGE	125 VAC	250 VAC/DC	125 VAC	250 VAC
RATED CURRENT, IEC/UL	- / 5A	- / 6.3A	- / 5A	6.3A





* See Thermal Requirements of a Fuseholder page 92

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

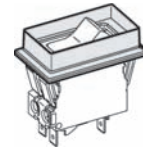
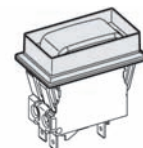
MOUNTING STYLE	Thread neck, Snap-in or Drop-in	Thread neck or Flange	Thread neck or Snap-in	Thread neck or Snap-in	Thread neck or Snap-in
				US only 	
TYPE	T11	T12	T13	TS-701	TS-709
POLES	1 pole	1 pole	1 pole	1 pole	1 pole
METHOD OF TRIPPING	Thermal	Thermal	Thermal	Thermal	Thermal
RATED VOLTAGE	240 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

MOUNTING STYLE	Snap-in		Snap-in	
			<p>NEW</p> <p>2-pole available w/factory mount anti-bacterial cover CZM25</p> 	
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	240VAC / 32-60VDC	415Y / 240 VAC	240VAC / 32-60VDC	415Y / 240 VAC
RATED CURRENT	0.05A - 20A	0.05A - 12A	0.05A - 20A	0.05A - 12A
ENDURANCE	50000 cycles at I_n		50000 cycles at I_n	
INTERRUPTING CAPACITY	6x I_n (IEC) / 1.5x I_n (UL)		6x I_n (IEC) / 1.5x I_n (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

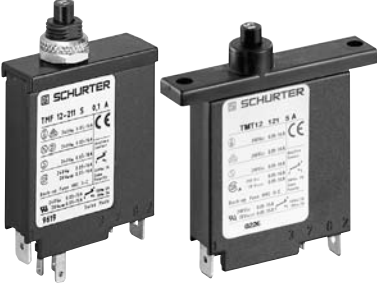

Accessory: Protection cover

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



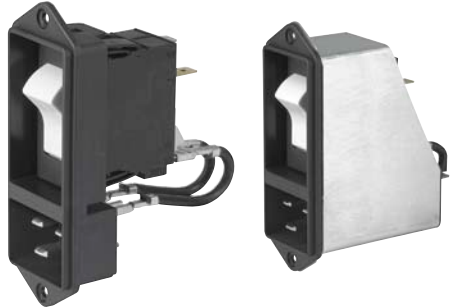
THERMAL MAGNETIC CIRCUIT BREAKERS

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	





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

VOLTAGE SELECTOR SWITCHES

	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

Inlets / Outlets	25
Distribution Units	30
Power Entry Modules without EMC Filter	31
Cord Connectors (rewireable)	37
Cord Sets	38
Data & Signal Connectors	44
Audio Connectors	47
DC Connectors	50
DIN Connectors	52
Test Jacks & Probes	54
Transpillars, Spacers	55



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	II	II	II	II	II

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	II

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





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

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




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
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
TYPE	5213 5216	4710	5017	4730 Inlet / Outlet-module
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

RATINGS, IEC/UL	10 A / 15 A @250 V	10 A / 15 A @250 V	10A/15A@125V/250V	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
		 <p>with cover on the rear side</p> <p>with carrier frame for accessory modules</p>	 <p>Inlet and outlet</p> <p>KPF Filter for backpack mounting to KP</p>	
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
<p>Versions with</p> <ul style="list-style-type: none"> - 6 outlets or - 5 outlets, 1 fuseholder 1-pole and 1 neon lamp, 1-pole or - 5 outlets, 1 line switch (rocker) illuminated 	 <p>Outlets shuttered</p>		 <p>Outlets shuttered</p>
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





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



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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



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

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




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





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








REWIREABLE CORD CONNECTORS

	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 @ 250 V 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


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  	NEW  	NEW  	NEW   Hospital Grade
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  	NEW  	NEW  	NEW  
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  	NEW  	NEW  	NEW  
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









CORD SETS









CONNECTOR	IEC/EN 60320-1 / C13, Protection Class I			
RATINGS, IEC UL	10 A @125 V	10 A @125 V	7 A / 125 V	12 A @125 V
	NEW  	NEW  	NEW  	NEW  
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  	NEW  	NEW  	NEW  
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  	NEW  	NEW  	NEW  
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

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  	NEW  	NEW  	NEW  
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  	NEW  	NEW  	NEW  
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  	NEW  	NEW  	NEW  
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













	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





CORD SETS



	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





CORD SETS





	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




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



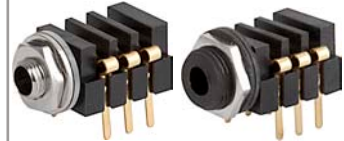
RATINGS	2 A @ 12 V AC/DC	2 A @ 12 V AC/DC	2 A @ 12 V AC/DC	2 A @ 12 V AC/DC
DESCRIPTION	Data & Signal	Data & Signal	Data & Signal	Data & Signal
SIZE / POLES	6.3 mm; 3-pole	6.3 mm; 3-pole	6.3 mm; 2-pole	6.3 mm; 3-pole
				
TYPE	4803.2320	4803.2330	4803.3200	4803.3300
CONNECTOR	Socket	Socket	Line Socket	Line Socket
HOUSING	Screened	Insulated	Screened	Screened




DATA & SIGNAL CONNECTORS




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 connectors	Data and Signal connectors
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




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


AUDIO CONNECTORS





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





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 @ 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	3.5 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 @ 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; 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		





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



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		




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
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; 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	

RATED CURRENT	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

TRANSIPILLARS, SPACERS

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

Power Entry Modules with EMC Filter	59
Single Phase Line Filters	63
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Suppression Chokes	68
Pulse Transformers	71

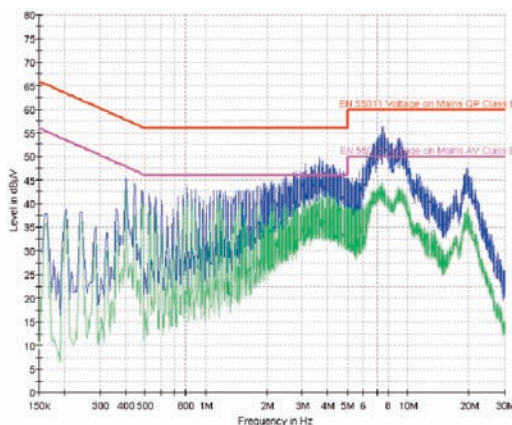
EMC Services

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 hous-

ing, 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



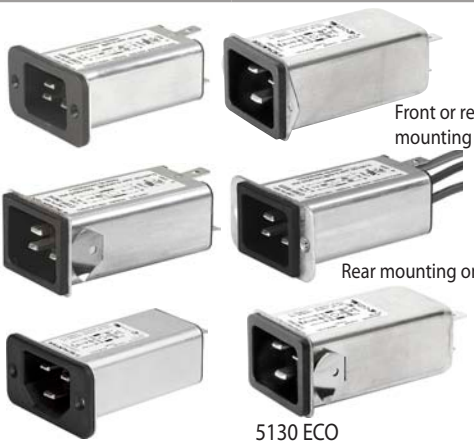
Test our EMC competence. We will measure your device, advise you during the interference suppression of your implementation and offer, in addition to many standard products, specific EMC solutions for EMC conformity. This service is an important part of the CE certification of your device. It is our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

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	 5130 ECO Front or rear mounting Rear mounting only
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




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 / 125 V	
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 @250 V / 125 V	1-10 A @250 V / 125 V	
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





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-or 2-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




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 / FK1	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


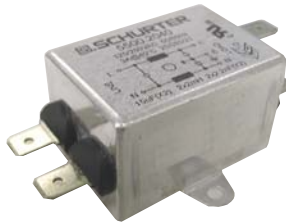
* See Thermal Requirements of a Fuseholder page 92

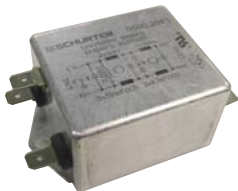





RATED VOLTAGE	250 / 125 VAC, 50 / 60 HZ		
CURRENT RATING	1-10A @ 40°C	0.5 - 6.5A @ 40°C	2-16A @ 40°C
MOUNTING	PCB	PCB	PCB
TERMINALS	PCB or quick-connect	PCB	PCB
CASE	Plastic	Plastic	Aluminum
			
TYPE	5500	FPP	FMAB-72
APPLICATION	All-purpose	All-purpose	All-purpose
LEAKAGE CURRENT	Standard and medical 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	






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	10 - 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










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 / FMED	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





3- PHASE LINE FILTERS





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 attenuation requirements	For high attenuation 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





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



SUPPRESSION CHOKES

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 interference	Power electronics	Power electronics	Power electronics
MATERIALS: HOUSING	Thermoplastic UL 94V-0	Thermoplastic UL 94V-0	Thermoplastic UL 94V-0	Thermoplastic UL 94V-0


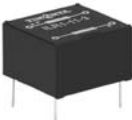


RATINGS	0.8 - 10 A / up to 440 VAC	5 - 45 A / 440 VAC	5 - 45 A / 440 VAC	16 A - 25 A
MOUNTING STYLE	PCB mounted	Screw-on version	Screw-on version	PCB mounted
TERMINALS	THT, Flexible wire	THT, Flexible wire	THT, Flexible wire	Wire leads
				
TYPE	DFSG	DLFP	DLFL	DEN
CHOKE	Saturating Choke	Saturating Choke	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


SUPPRESSION CHOKES

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

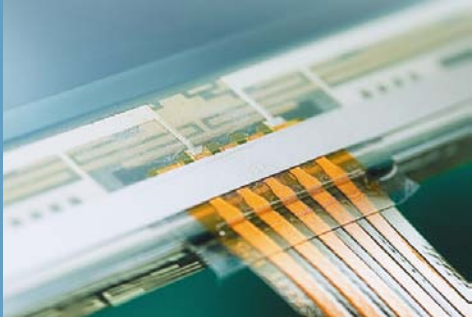
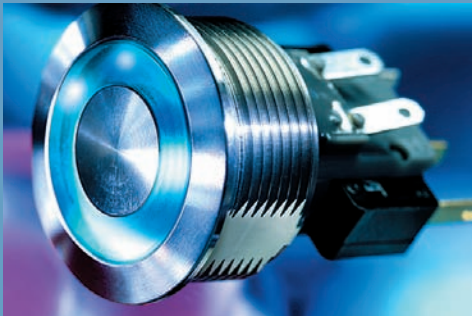
RATINGS	0.45 - 4.5 A / 06 - 1 A @600 VDC	0.5 - 16 A / 0.45 - 7 A @600 VDC
MOUNTING STYLE	PCB mounted / Screw-on version from top	
TERMINALS	THT or SMD	Wire leads
		
TYPE	DSH / DSHP	DSO / DLO
CHOKE	Storage Choke	Storage Choke
INDUCTANCE	0.01 - 2 mH / 0.04 - 0.1 mH	0.01 - 1 mH
NUMBER OF COILS	1	1
APPLICATION	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 to 600 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 V μ s	100-300 V μ s	150- 400 V μ s	500 V μ s
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 V μ s	0.1 - 0.3 V μ s	0.05 - 1.5 V μ s	0.7 - 0.8 V μ s

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 V μ s			
APPLICATION	Control of semi-conductors in power electronics			
MATERIALS: HOUSING	Thermoplastic UL 94V-0			
PULSE RISE TIME	0.5 - 1.5 V μ s			

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

Metal Line Switches	73
Frontpanel Switches	83
Printmount Switches	84
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Piezo Keypads	86

	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

METAL LINE SWITCHES

	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





METAL LINE SWITCHES

	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

METAL LINE SWITCHES

	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

METAL LINE SWITCHES

	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

METAL LINE SWITCHES

	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




FRONTPANEL - SWITCHES AND PUSHBUTTONS

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			

INDICATOR LIGHTS

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 
	12 Keypoints	16 Keypoints
	-25°C to + 85°C.	-25°C to + 85°C.
	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

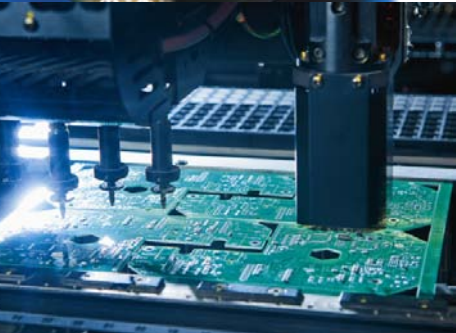


Metal switch with colored anodized design

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



Wire Harnesses



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:

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- 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
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Areas of application

SCHURTER Electronic Manufacturing Services produces and installs electronic assemblies, complete appliances and systems. We spe-

cialize 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 implementing touch screen operating system concepts.

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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.

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- X-ray inspection
- AOI in/out line
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- Temperature and climate testing





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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

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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

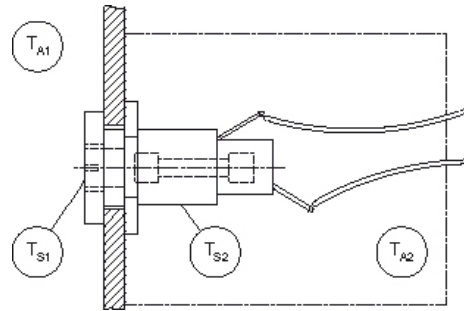
(power dissipation at rated current)

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 $T_{A1} = T_{A2} = 23\text{ °C}$ (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⁾	T_{S2}		²⁾
Insulating parts			
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

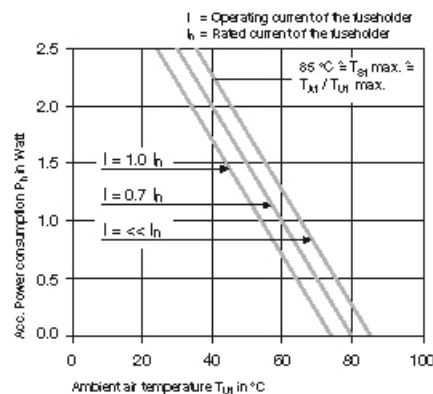


T_{A1} = ambient air temperature, surrounding the equipment
 T_{A2} = ambient air temperature in the equipment
 T_{S1} = temperature of accessible parts on fuseholder surface
 T_{S2} = temperature of inaccessible parts on fuseholder surface

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 T_{A1} for the following fuseholder operating currents: $I << I_n$, $I = 0.7 \cdot I_n$ and $I = 1.0 \cdot I_n$. 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:

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

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 T_{A1} .

$$P_f \leq P_h = P_o - P_c = P_o - (R_c \cdot I^2)$$

P_f = rated power dissipation in watt of the fuse-link, calculated from $(I_n \cdot U)$, whereas:

I_n = rated current in ampere of the fuse-link

U = voltage drop in volt at I_n ; 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 U at $I_n = 80$ mV, typ.

Rated power dissipation $P_f = (I_n \cdot U) = (5 \text{ A} \cdot 0.08 \text{ V}) = 0.4 \text{ W}$.

- Fuseholder FEF 0031.1081, rated current $I_n = 10$ A

Rated power acceptance at $T_{A1} 23^\circ\text{C} = 3,2 \text{ W}$.

- Ambient air temperature = 50°C .

Admissible power acceptance P_h at an ambient air temperature $T_{A1} 50^\circ\text{C}$ according to the derating curve:

P_h at $I \ll I_n = 2.5 \text{ W}$

$I = 0.7 \cdot I_n = 7 \text{ A} = 2.2 \text{ W}$

$I = 1.0 \cdot I_n = 10 \text{ A} = 2 \text{ W}$

- Contact resistance $R_c = 5 \text{ m}\Omega$

What is the admissible power acceptance P_h of the fuseholder?

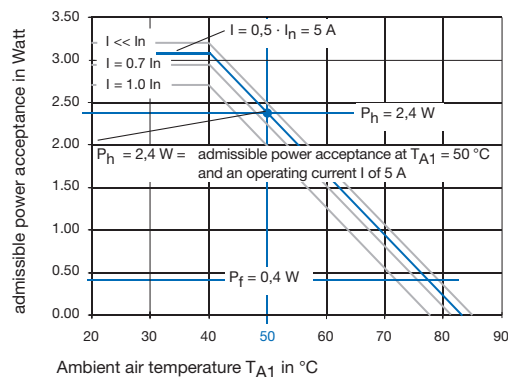
The result of the interpolation for the rated current $I = 5$ A

is a P_h of approx. $2,4 \text{ W}$.

The result of the calculation is

$$P_h = P_o - (R_c \cdot I^2) = 2.5 - (0.005 \cdot 52) = 2.37 \text{ W } P \approx 2.4 \text{ W}.$$

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



Verification of the thermal requirements

Step 1

The following condition must be fulfilled:

$P_f \leq P_h$ this means: the rated power dissipation P_f of the fuse-link must be less/equal than the admissible power acceptance P_h of the fuseholder.

$P_f = 0.4 \text{ W}$; $P_h = 2.4 \text{ W}$ at $T_{A1} = 50 \text{ °C}$

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**

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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.

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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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General Product Information for Connectors

- Product Standards
- National Approvals
- Electric Protection
- Fuseholder
- Technical Data for Line Switches
- Line Filters
- Product Codes

Please find details: www.schurter.com/product_information



General Product Information about Fuses

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- Telecom Fuses
- Fuseholders
- PTC Fuses

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General Product Information about EMC Products

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- Electric Protection
- Fuseholders and IEC Inlets
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- Industrial Line Filters
- Pulse Transformers
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Fuses
SHT / SHF 6.3 x 32 mm
High Performance Compact Fuses Rated 1-8 A @ 500 VAC. Breaking Capacity 1500 A



Fuses
USFF 1206
Low Current Precise Acting Fuses 0.05 - 0.25 A; Breaking Capacity 100 A @125 VAC, 63 VDC



Fuses
USF 0603
For Dense Circuits 0.5 - 5 A @ 32 VAC/DC; 0.5 - 1.5 A @ 63 VDC



Fuses
UMF / UMT 250 / UMT-H
Fast Acting or Time Lag, 80 mA-10 A @ 250 VAC / 125 VDC. High Current Version UMT-H Rated up to 20 A



Fuses
FUA / FUP
Fuseholders Rated 30 A @600 VAC/DC for PCB Mounting, Horizontal or Vertical



Fuses
ASO / CSO
Midjet Solar Fuse 10.3x38 mm Rated 1 - 30 A @1000 VDC Listed to UL 2579 gPV; Fuseclip Rated 1500 VAC/DC



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
VLock
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



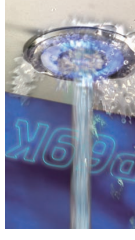
Switches
MSM LA / DP
Metal Switches 1- or 2- Pole with Momentary or Latching Action. Rated 12 A @ 250 VAC



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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