

Fuses & Fuseholders

Connectors

Circuit Breakers

Input Systems

EMC Products

the SCHURTER

Range at a Glance



 **SCHURTER**

ELECTRONIC COMPONENTS

www.schurter.com

The specifications, descriptions and illustrations indicated in this catalog are based on the information as of 02/08. All content is subject to modifications and amendments.

With the present catalog, the catalog no. 0165.0348 becomes invalid.

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Webnavigation

How to use the SCHURTER Range at a Glance Catalog

This SCHURTER catalog contains an overview of the company's entire product range in a handy quick-reference guide. It is intended to be used in combination with the SCHURTER website, where continuous updates are made to ensure the latest available product information.

Navigating the SCHURTER Range at a Glance Catalog to the Web

Navigating the SCHURTER catalog and the website is made easy because their look alike format. Use the SCHURTER Range at a Glance Catalog to identify your products of interest, then visit the mentioned URL to locate detailed technical information including .PDF files, approvals, CAD drawings, and other related tools to aid your selection of SCHURTER products.

Quick Tour

Take a look at the example below, which is taken from a section of this SCHURTER Catalogue. Proceed with following steps:

1. Select product area of interest and specific type in the catalog
2. Go to the mentioned URL and select your preferred language
3. Select specific type, e.g. USF 1206 to access detailed product information.

Product Search

Take a look at the example below, which is taken from a section of this SCHURTER catalog. Proceed with following steps:

If you want to run a quick search, proceed with following steps:

1. Select product of interest
2. Go to www.schurter.com and enter by your region or country
3. From the drop down search box, select search by part no. or type
4. Enter specific type, e.g. USF 1206 to access detailed product information

Product Selection by Attributes

If you want to compare different products on attribute base

1. Select product area of interest and specific attributes
2. Go to the mentioned URL and select your preferred language
3. From the search area, select the relevant attribute instance
4. Select specific type based on comparison

non resettable fuses

www.schurter.com/p/...

URL
(Catalog)

type
product of
interest

Description	Rated Current	Characteristic	Dimensions	Rated Voltage Breaking Capacity	Appropiation	Web Reference
SURFACE MOUNT FUSE						
Surface Mount Fuse, Super-Quick-Acting FT, 1.05x0.55mm	0.375 - 5A	Super-Quick-Acting FT	1.05x0.55mm	- 32VDC - 25A	NA-000	USF 0402
Surface Mount Fuse, Super-Quick-Acting FT, 1.6x0.8mm	0.5 - 5A	Super-Quick-Acting FT	1.6x0.8mm	- 32VDC / 32VDC - 50A	NA-000	USF 0603
Surface Mount Fuse, Super-Quick-Acting FT, 2.5x1.6mm	0.5 - 5A	Super-Quick-Acting FT	2.5x1.6mm	- 32VDC / 32VDC - 50A	NA-000	USF 0805

The screenshot shows the Schurter website header with the logo and navigation links: Home, Products, News, Support, Contact. Below the header is a 'Our Products' section with a 'Quick Links' area containing links for 'e-Store', 'Approvals', 'CAD-Drawings', and 'Check SCHURTER Stock'. There are also sections for 'Connectors' and 'Fuses' with sub-links like 'Power Entry Modules without Filter' and 'Schematics, Layout, Parameters and Sources for Printed Circuit Boards (PCB)'.

search by part number
or type

select product
of interest

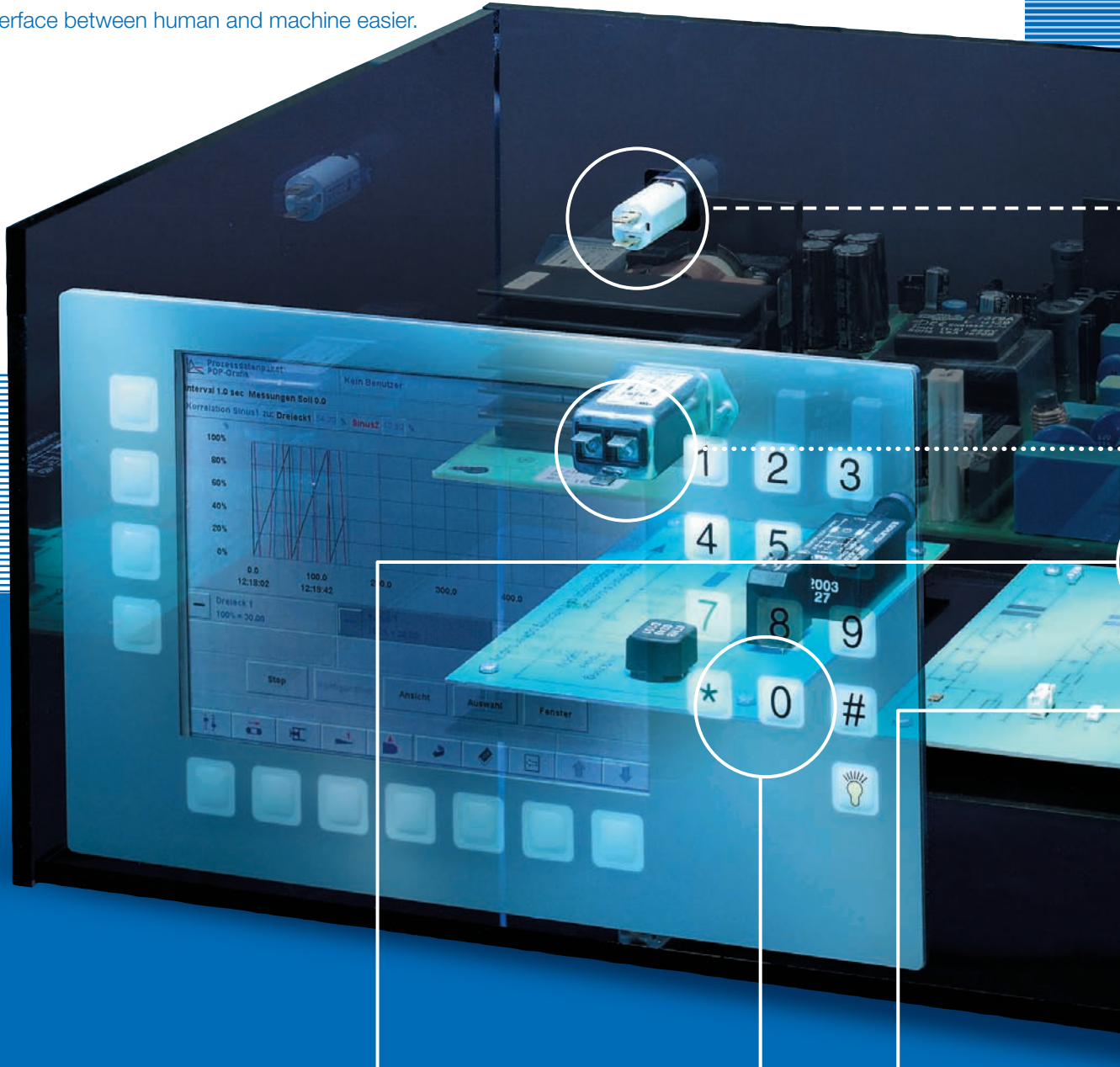
select instance
of interested attribute

The screenshot shows the 'Non Resettable Fuses' selector chart. It includes a search bar with a dropdown menu showing a list of product types: PTT 5x20, PTT 6.3x23, OMF 250, SMD-FTT, and USF 1206. Below the search bar is a table with columns for 'Picture(s)', 'Type', 'Rated Current [?]', 'Rated Voltage', 'Breaking Capacity', and 'Characteristic'. The 'USF 1206' product is highlighted in the table.

This screenshot shows the same selector chart but with the 'Characteristic' dropdown menu open. The dropdown list includes '(all)' and 'Super-Quick-Acting F'. The 'Super-Quick-Acting F' option is selected, as indicated by the mouse cursor and the text callout.

the Schurter Range at a Glance

Passive electronic components for use in electronic appliances. Our main focus is to provide safe power and make the interface between human and machine easier.



Fuses & Fuseholders

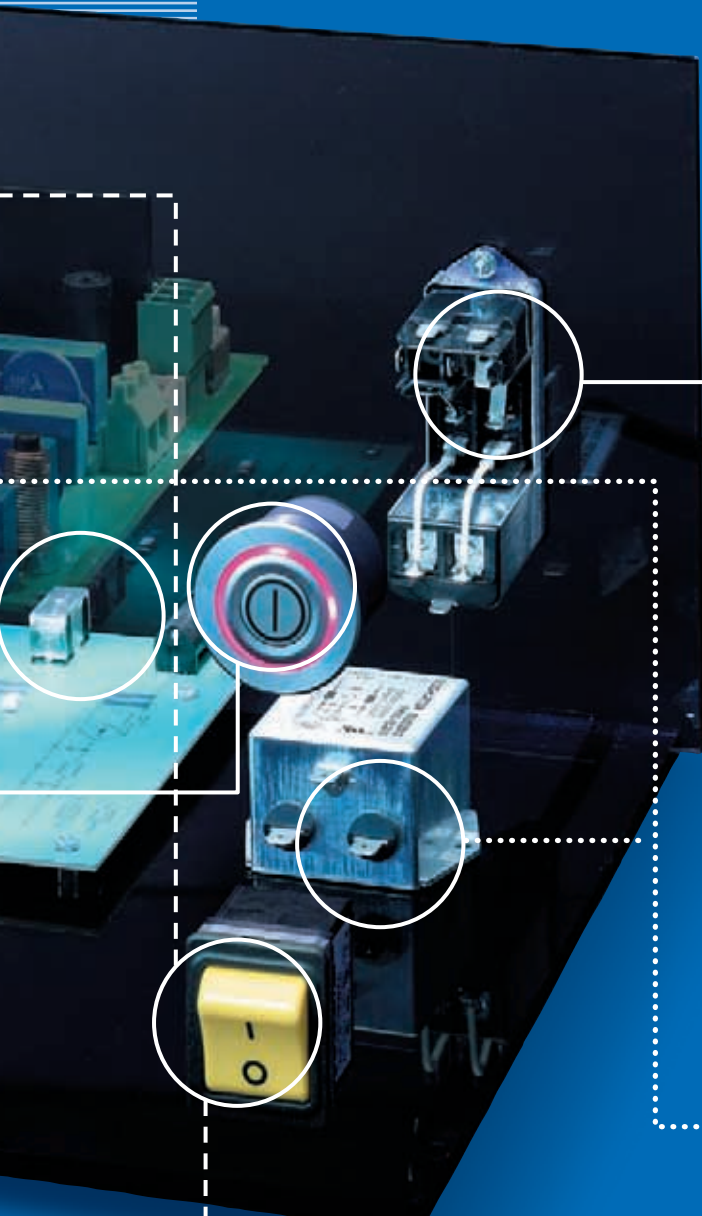


- Non Resettable Fuses
- Telecom Fuses
- Resettable Fuses
- Fuseholders
- Fuseholder Blocks & Clips

Input Systems



- Frontpanel Switches
- Printmount Switches
- Capacitive Switches
- Piezo Switches
- Metal Line switches



Connectors



- Inlets / Outlets
- Power Distribution Units
- Power Entry Modules with or without Filter
- Cord Connectors (rewireable)
- Cordsets

Circuit Breakers



Thermal and Thermal-magnetic Circuit Breakers for Equipment

- Switching Types: Rocker, Pushbutton & Handle
- Mounting Types: Fuseholder style, Snap-in, Threaded-neck & DIN-rail

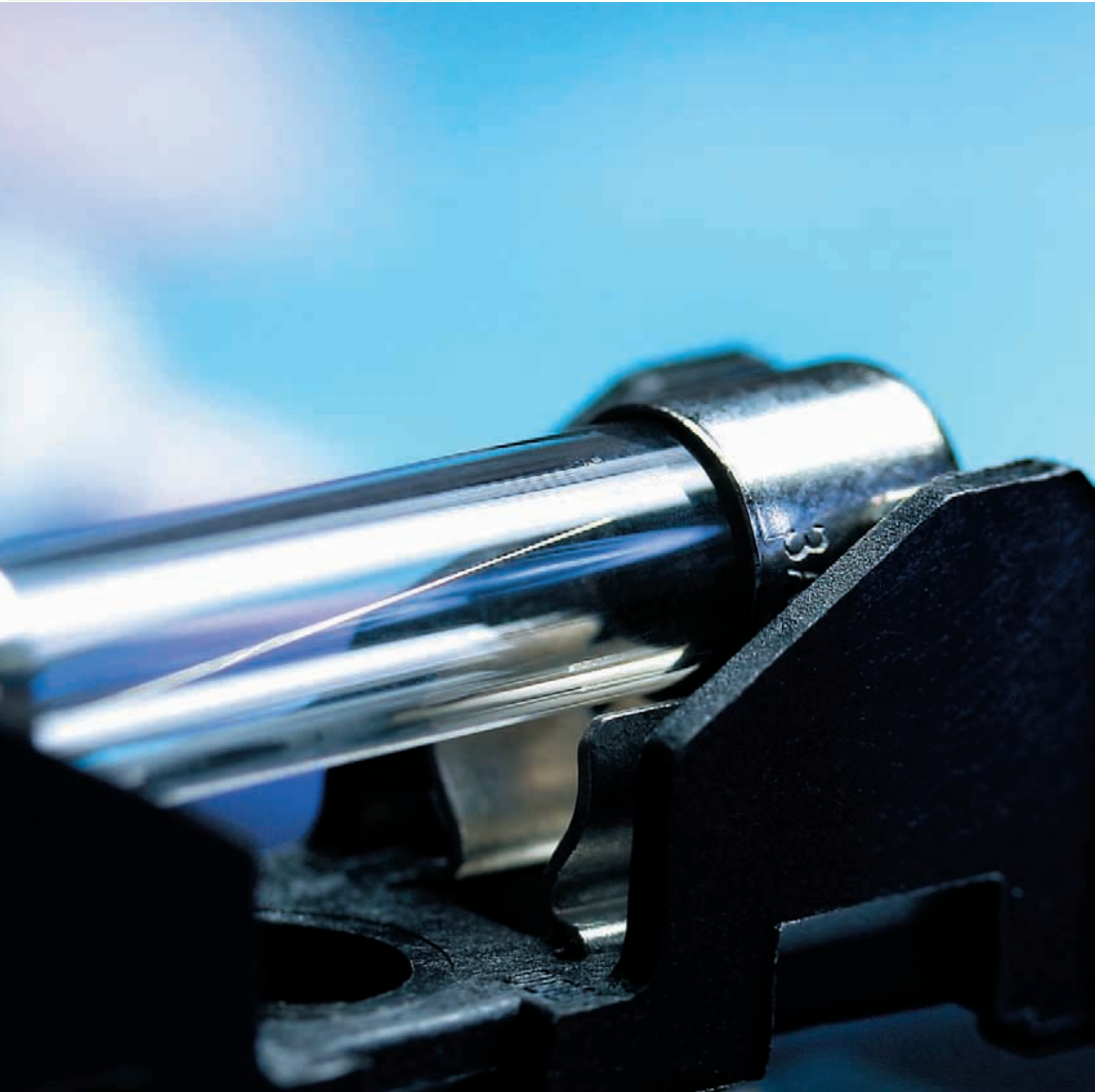
EMC-Products



- Power Entry Modules with or without Filter
- Single Phase Line Filters
- 3-Phase Line Filters
- Suppression Chokes
- Pulse Transformers
- Power Stage Driver Modules











Fuses & Fuseholders











NON RESETTABLE FUSES



Surface Mount Fuses						
DIMENSIONS	0.55x1.05mm	0.8x1.6mm	1.6 x 3.2 mm	3 x 10.1 mm	1.6 x 3.2 mm	
	NEW 		NEW 			NEW  ESA Approved
TYPE	USF 0402	USF 0603	USI 1206 USF 1206	UMF/UMT250 UMZ 250	MGA 1206	MGA S
RATED VOLTAGE	32 VDC	32 VAC/32 VDC	32 VAC/63 VDC	250 VAC/125 VDC	125 VAC/125 VDC	
RATED CURRENT	0.375 - 5A	0.5 - 5A	0.375 - 6.3A	0.08 - 10A	0.2 - 5A	0.2 - 5A
BREAKING CAPACITY	35A	50A	50A - 63A	200A	50A	50A
CHARACTERISTIC	FF	FF	FF	T	FF	FF

Surface Mount Fuses			
DIMENSIONS	2 x 7 mm		2 x 7 mm
			
TYPE	172876 MKF		MSB MKT
RATED VOLTAGE	125 VAC/125 VDC		125 VAC/125 VDC
RATED CURRENT	0.063 - 15A		0.75 - 15A
BREAKING CAPACITY	300A		150A
CHARACTERISTIC	F		T





Surface Mount Fuses				
DIMENSIONS	3.1 x 7.4 mm	3.1 x 7.4 mm	3.1 x 7.4 mm	4.6 x 11mm
				
TYPE	OMF 63 OMK 63	OMF 125 OMK 125	OMT 125 OMZ 125	OMF 250
RATED VOLTAGE	63 VAC/63 VDC	125 VAC/125 VDC		250 VAC/250 VDC
RATED CURRENT	0.063 - 10A	0.063 - 10A	0.25 - 5A	0.25 - 4A
BREAKING CAPACITY	50A	100A	100A	100A
CHARACTERISTIC	F	F	T	F




Surface Mount Fuses				
DIMENSIONS	4.6 x 11 mm	5 x 20 mm	5 x 20 mm	5 x 20 mm
				
TYPE	OMT 250	SMD-FST 5x20	SMD-FTT	SMD-SPT 5x20
RATED VOLTAGE	250 VAC	250 VAC	250 VAC	250 VAC
RATED CURRENT	0.75 - 5A	0.05 - 20A	0.16 - 4A	1 - 16A
BREAKING CAPACITY	50 - 100A	35-125A	35A	1500A
CHARACTERISTIC	T	T	TT	T




NON RESETTABLE FUSES



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

	Subminiature Fuses			
DIMENSIONS	Ø 6.4 mm	Ø 8.5 mm	Ø 8.5 mm	Ø 8.5 mm
				
TYPE	MSF 125	MSF 250	MST 250	MSTU 250
RATED VOLTAGE	125 VAC/125 VDC	250 VAC	250 VAC	250 VAC
RATED CURRENT	0.1 - 5A	0.04 - 5A	0.05 - 6.3A	0.063 - 10A
BREAKING CAPACITY	300A	35A	35A	50A
CHARACTERISTIC	F	F	T	T

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

	Subminiature Fuses			FUSE KITS
DIMENSIONS	2.36 x 86 mm	3.8 x 86 mm		
				
TYPE	172321 172322	172593	172844	
RATED VOLTAGE	125 VAC/125 VDC	250 VAC/125 VDC	125 VAC/125 VDC	32 - 250 VAC/VDC
RATED CURRENT	0.063 - 15A	0.05 - 5A	0.125 - 10A	0.04 - 20A
BREAKING CAPACITY	300A	50-300A	50-100A	35 - 1500A
CHARACTERISTIC	F	F	T	FF / F / T / TT

See page 17 for fuseholders

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	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	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	220 VAC	220 VAC	
RATED CURRENT	0.5 - 16A	0.02 - 20A	0.031 - 15A	
BREAKING CAPACITY	1500A	60-300A	40-100A	
CHARACTERISTIC	T	F	TT	

See pages 13-17 for fuseholders, fuse blocks and fuse clips




Miniature fuses with pigtails available in Tape & Reel:











NON RESETTABLE FUSES






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

	Miniature Fuses		
DIMENSIONS	6.3 x 32 mm / 1/4" x 11/4"		
			
TYPE	FSF 6.3x32	FST 6.3x32	SA 6.3x32
RATED VOLTAGE	250 VAC	250 VAC	250 VAC
RATED CURRENT	0.1 - 10A	0.02 - 20A	1.6 - 16A
BREAKING CAPACITY	35 - 100A	35 - 200A	1500A
CHARACTERISTIC	F	T	FF

	Miniature Fuses			
DIMENSIONS	6.3 x 32 mm / 1/4" x 11/4"			
				
TYPE	SP 6.3x32	SPT 6.3x32	A12FA 250V	A12FA 380V
RATED VOLTAGE	250 VAC	250 VAC	250 VAC	380 VAC
RATED CURRENT	0.5 - 20A	0.5 - 32A	0.1 - 16A	0.1 - 12.5A
BREAKING CAPACITY	1000 - 1500A	1000 - 1500A	200kA	150kA
CHARACTERISTIC	F	T	FF	FF




	Miniature Fuses			
DIMENSIONS	6.3 x 32 mm / 1/4" x 11/4"			
				
TYPE	A12FA 500V	A12FA 660V	A12BK	172600
RATED VOLTAGE	500 VAC	660 VAC	250 VAC	250 VAC
RATED CURRENT	0.1 - 12.5A	0.1 - 2A	0.125 - 16A	0.125 - 20A
BREAKING CAPACITY	10 - 150kA	30kA	10kA	10kA
CHARACTERISTIC	FF	FF	F	T



	Miniature Fuses		
DIMENSIONS	6.3 x 32 mm / 1/4" x 11/4"		
			
TYPE	172582	D8STTD	A12TD
RATED VOLTAGE	250 VAC/125 VDC	220 VAC/125 VDC	220 VAC/125 VDC
RATED CURRENT	0.16 - 20A	0.16 - 1.25A	1.6 - 30A
BREAKING CAPACITY	1 - 10kA	50A	100A
CHARACTERISTIC	F	T	T



See pages 13-17 for fuseholders, fuse blocks and fuse clips

TELECOM FUSES



	Surface Mount Fuses			
DIMENSIONS	3.1 x 7.4 mm	4.6 x 11 mm	3.22 x 10.1 mm	
			NEW 	
TYPE	OSU 125	OSU 250	TF 600 / UMZ 250	
RATED VOLTAGE	125 VAC/125 VDC	250 VAC/250 VDC	600 VAC/125 VDC	
RATED CURRENT	0.25 - 3.15A	0.25 - 3.15A	0.5 - 2 A	
BREAKING CAPACITY CHARACTERISTIC	100A F	100A F	60A T	

	Subminiature Fuses		
DIMENSIONS	Ø 6.4 mm	Ø 8.5 mm	
			
TYPE	MSU 125	MSU 250	
RATED VOLTAGE	125 VAC/125 VDC	250 VAC	
RATED CURRENT	0.25 - 3.15A	0.25 - 3.15A	
BREAKING CAPACITY CHARACTERISTIC	300A F	32A T	

	Miniature Fuses		
DIMENSIONS	5 x 11.5 mm	5 x 20 mm	
			
TYPE	FRT 250T	SSU 250	
RATED VOLTAGE	250 VAC	250 VAC	
RATED CURRENT	0.25 - 3.15A	0.25 - 3.15A	
BREAKING CAPACITY CHARACTERISTIC	100A T	1500A T	

See pages 13-17 for fuseholders, fuse blocks and fuse clips

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
		NEW		NEW
TYPE	PFNF 1206	PFUF 1210	PFMF 1812	PFDF 2018
RATED VOLTAGE	6 - 30 VDC	6 - 30 VDC	13.2 - 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	10A / 60V - 100A / 13.2V	10A / 60V



Surface Mount PTC-Fuses		
DIMENSIONS	7 x 5.4 mm - 8.75 x 6.7 mm	
		NEW
TYPE	PFSM 2029/3425	PFHT 2029/3425
RATED VOLTAGE	6 - 60 VDC	16 VDC
HOLD CURRENT	0.3 - 2.6A	1.36 - 1.6A
MAX CURRENT	40A / 60V -100A / 6V	100A / 16V

Wire Leaded PTC-Fuses			
DIMENSIONS	3.1x7.4-24.2mm	3x10.84-23.51 mm	
		NEW	
TYPE	PFRA	PFRY	
RATED VOLTAGE	16 - 60 VDC	72 VDC	
HOLD CURRENT	0.1 - 11A	1.1 - 3.75A	
MAX CURRENT	40A / 60V - 100A / 16V	40A / 72V	

FUSEHOLDERS



MOUNTING	Panel mount			
SUITABLE FOR FUSE SIZE	5 x 20 mm			
METHOD OF FASTENING	Fixing nut fastening			
				
TYPE	FPG1	FPG2	FBS1	FEF
SOLDER- / QUICK-CONNECT TERMINALS	4.8 x 0.5 mm	4.8 x 0.5 mm	4.8 x 0.5 mm	2.8 x 0.5 mm
DEGREE OF PROTECTION	IP 40 / IP 67	IP 40 / IP 67	IP 40	IP 40 / IP 54
RATED VOLTAGE	250 VAC	250 VAC	250 VAC	250 VAC
RATED CURRENT, IEC/UL	10A / 16A	10A / 16A	10A	10A
RATED POWER ACCEPTANCE	2.5W	2.5W	2.5W	4W

MOUNTING	Panel mount			
SUITABLE FOR FUSE SIZE	5 x 20 mm			
METHOD OF FASTENING	Fixing nut fastening	Snap-in	Press-fit	Snap-in
				
TYPE	FIO / FIN	FPG3	FPG6	FEF
SOLDER- / QUICK-CONNECT TERMINALS	2.8 x 0.5 mm	4.8 x 0.5 mm	4.8 x 0.5 mm	2.8 x 0.5 mm
DEGREE OF PROTECTION	IP 40 / IP 67	IP 40	IP 40	IP 40
RATED VOLTAGE	250 VAC	250 VAC	250 VAC	250 VAC
RATED CURRENT, IEC/UL	10A	10A / 16A	10A / 16A	10A
RATED POWER ACCEPTANCE	2.5W	2.5W	2.5W	4W

FUSEHOLDERS



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

MOUNTING	Panel mount	PCB mount		
SUITABLE FOR FUSE SIZE	5 x 20 mm			
METHOD OF FASTENING	Fixing nut fastening	Through hole mounting vertical		
				
TYPE	FIZ	FPG4	FAF	FAP
SOLDER- / QUICK-CONNECT TERMINALS	6.3 x 0.8 mm			
DEGREE OF PROTECTION	IP 40 / IP 67	IP 40	IP 40 / IP 54	IP 40
RATED VOLTAGE	250 VAC	250 VAC	250 VAC	250 VAC
RATED CURRENT, IEC/UL	16A / 30A	10A / 16A	6.3A / 12A	6.3A / -
RATED POWER ACCEPTANCE	4.0W	2.5W	2.0W	1.6W
MOUNTING	PCB mount			
SUITABLE FOR FUSE SIZE	5 x 20 mm			
METHOD OF FASTENING	Through hole mounting horizontal			
				
TYPE	FPG5	FBS2	FAB	FAS
SOLDER- / QUICK-CONNECT TERMINALS				
DEGREE OF PROTECTION	IP 40	IP 40	IP 40	IP 40
RATED VOLTAGE	250 VAC	250 VAC	250 VAC	400 VAC
RATED CURRENT, IEC/UL	10A / 16A	10A	10A / 12A	6.3A / -
RATED POWER ACCEPTANCE	2.5W	2.5W	2.5W	1.6W
MOUNTING	PCB			
SUITABLE FOR FUSE SIZE	5 x 20 mm			
METHOD OF FASTENING	SMD horizontal			
	NEW 			
TYPE	FPG7			
TERMINALS	Solder SMT			
DEGREE OF PROTECTION	IP 40			
RATED VOLTAGE	250 VAC			
RATED CURRENT, IEC/UL	10A / 16A			
RATED POWER ACCEPTANCE	2.5W			

FUSEHOLDERS



MOUNTING	Panel mount				
SUITABLE FOR FUSE SIZE	5 x 20 mm 6.3 x 32mm				
METHOD OF FASTENING	Fixing nut fastening				
TYPE	FEU	FEU med	FEU grip	FEC	
SOLDER- / QUICK-CONNECT TERMINALS	4.8 x 0.5 mm	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	
RATED VOLTAGE	250 VAC	250 VAC	250 VAC	500 VAC	
RATED CURRENT, IEC/UL	10A / 20A	10A / 20A	10A / 20A	10A / 20A	
RATED POWER ACCEPTANCE	4W (5x20) 4W (6.3x32)	4W (5x20) 4W (6.3x32)	4W (5x20) 4W (6.3x32)	4W (5x20) 4W (6.3x32)	

MOUNTING	PCB mount				Panel mount
SUITABLE FOR FUSE SIZE	5 x 20 mm / 6.3 x 32mm				
METHOD OF FASTENING	Through hole mounting horizontal	Through hole mounting vertical	Through hole mounting horizontal	Through hole mounting vertical	Fixing nut fastening
TYPE	FAU	FAC	FUP	FUA	FUL
SOLDER- / QUICK-CONNECT TERMINALS					6.3 x 0.8 mm
DEGREE OF PROTECTION	IP 40	IP 40	IP 40	IP 40	IP 40 / IP 67
RATED VOLTAGE	250 VAC	250 VAC	500 VAC	500 VAC	500 VAC
RATED CURRENT, IEC/UL	10A / 16A	10A / 16A	16A / 30A	16A / 30A	10A / 30A
RATED POWER ACCEPTANCE	3.2W (5X20) 3.2W (6.3X32)	3.2W (5X20) 3.2W (6.3X32)	4W (5X20) 4W (6.3X32)	4W (5X20) 4W (6.3X32)	4W (5X20) 4W (6.3X32)

FUSE BLOCKS AND FUSE CLIPS



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

MOUNTING	Board mount		PCB mount	
SUITABLE FOR FUSE SIZE	5 x 20 mm			
METHOD OF FASTENING	Screw or rivet		SMT	Through hole mounting
TYPE	UH	UHB	OGN-SMD	OGN
SOLDER- / QUICK-CONNECT TERMINALS	4.8 x 0.5 mm	4.8 x 0.5 mm		
RATED VOLTAGE	250 VAC	250 VAC	250 VAC	250 VAC
RATED CURRENT, IEC/UL	- / 10A	- / 4A	10A	10A
RATED POWER ACCEPTANCE	3.2W	3.2W	4.0W	4.0W





MOUNTING	PCB mount			
SUITABLE FOR FUSE SIZE	5 x 20 mm	5 x 20 mm	6.3 x 32 mm	
METHOD OF FASTENING	Through hole mounting horizontal	SMT	Through hole mounting horizontal	
TYPE	OG	OGD-SMD	OGD	
RATED VOLTAGE	250 VAC	500 VAC		
RATED CURRENT, IEC/UL	- / 10A	10A / 16A		
RATED POWER ACCEPTANCE	2.5W / 2.0W (with cover)	4W		





MOUNTING	PCB mount		PCB mount	
SUITABLE FOR FUSE SIZE	5 x 20 mm	5 x 20 mm	5 x 20 mm	10.3 x 38 mm
METHOD OF FASTENING	Through hole mounting horizontal		Through hole mounting horizontal	
TYPE	CQM	OG	OG	7170
RATED VOLTAGE	250 VAC	250 VAC	250 VAC	250 VAC
RATED CURRENT, IEC/UL	6.3A / -	- / 6.3A	- / 10A	- / 20A
RATED POWER ACCEPTANCE			2.5W	





See pages 7,8,10 for fuses

FUSE BLOCKS AND FUSE CLIPS



MOUNTING	Board mount	PCB mount		
SUITABLE FOR FUSE	6.3 x 32 mm		182876 / MSB	MSF 125
METHOD OF FASTENING	Screw or rivet	Through hole mounting	Through hole mounting	Through hole mounting
				
TYPE	RSH	OG	231787	FMS
SOLDER- / QUICK-CONNECT TERMINALS	4.8 x 0.5 mm			
RATED VOLTAGE	250 VAC	250 VAC	125 VAC/125 VDC	125 VAC
RATED CURRENT, IEC/UL	- / 16A	- / 16A	- / 7A	- / 5A
RATED POWER ACCEPTANCE	3.2W	2.5W	0.9W	

MOUNTING	PCB mount			
SUITABLE FOR FUSE	MSF/MST/ MSTU/MXT 250	MSF 125	PSC	FRT 250
METHOD OF FASTENING	Through hole mounting	Through hole mounting	Through hole mounting	Through hole mounting
				
TYPE	FMS	FMR	231651	231819
RATED VOLTAGE	250 VAC	125 VAC	125 VAC	250 VAC
RATED CURRENT, IEC/UL	- / 6.3A	- / 5A	- / 5A	6.3A / -
RATED POWER ACCEPTANCE				

MOUNTING	PCB mount			Panel mount
SUITABLE FOR FUSE	172876 / MSB	OMF63/OMF12	TF 600	MSF 125
METHOD OF FASTENING	SMT	SMT	SMT	Fixing nut fastening
			NEW 	
TYPE	231786	OMH125	UMZ 250	FME
RATED VOLTAGE	125 VAC/125 VDC	125 VAC	250 VAC/125 VDC	125 VAC
RATED CURRENT, IEC/UL	- / 7A	- / 5A	4A	- / 5A
RATED POWER ACCEPTANCE	0.9W			



Connectors



INLETS / OUTLETS



RATINGS, IEC/UL	2.5 A @250 V			10 A / 15 A @250 V
PANEL MOUNTING	Screw-on or Snap-in		Screw-on	Screw-on
TERMINALS	PCB or Solder/Quick-connect		PCB or Solder/Quick-connect	Screw terminals /Solder/Quick-connect
TYPE	0720-FP 0721-PP 2571	0720-FS 0721-PS 2571 / 2572	0724 2562 2565 / 2565K	8843-FL 6062
PIN TEMPERATURE	70°C		70°C	70°C
PROTECTION CLASS	II		I	I

RATINGS, IEC/UL	10 A / 15 A @250 V			
PANEL MOUNTING	Screw-on or Snap-in (fixed panel thickness or universal mounting)	Screw-on or Snap-in	Screw-on or Snap-in	Screw-on
TERMINALS	Solder/Quick-connect/Screw	Solder/Quick-connect	Solder/Quick-connect	PCB
TYPE	6100-3 / 6061-G 6100-4 / 1061	6110-3 6110-4	6120-3 6120-5	GSP1
PIN TEMPERATURE	70°C	120°C	155°C	70°C
PROTECTION CLASS	I	I	I	I II
TYPE WITH LINE FILTER	5110			

INLETS / OUTLETS



RATINGS, IEC/UL	10 A / 15 A @250 V				10 A / 15 A @125 V / 250 V
PANEL MOUNTING	Sandwich or rear	Screw-on or Snap-in	Screw-on or Snap-in	Screw-on or Snap-in	Snap-in
TERMINALS	PCB	PCB	Solder/Quick-connect		IDC
					NEW
TYPE	GSP2	6130.56 8843-ZP.30	6600-3 6600-4	4721 4723	IDC 6610
PIN TEMPERATURE PROTECTION CLASS	70°C I or II	70°C I	70°C I	70°C I	70°C I or II
RATINGS IEC/UL	10 A / 15 A @250 V		15 A @125 V / 250 V		
PANEL MOUNTING	Screw-on or Snap-in	Screw-on	Snap-in		
TERMINALS	Solder/Quick-connect	PCB	Solder	IDC	Quick-connect/IDC
TYPE	4787 / 4788	5001	4300 NEMA		
PIN TEMPERATURE PROTECTION CLASS	70°C I	70°C I	70°C I or II	70°C II	70°C II
RATINGS, IEC/UL	16 A / 20 A @250 V				16 A / 21 A @250
PANEL MOUNTING	Screw-on or Snap-in	Screw-on	Screw-on or Snap-in	Screw-on	Screw-on
TERMINALS	Solder/Quick-connect	PCB	Solder/Quick-connect	Plug & Connector	Quick-connect
		NEW			NEW
TYPE	4798 / 4793	1601	4797	4730	5017
PIN TEMPERATURE PROTECTION CLASS	70°C I	70°C I	70°C I	70°C I	70°C I

DISTRIBUTION UNITS



RATINGS, IEC/UL	10 A / 15 A @250 V			
PANEL MOUNTING	Snap in / front-side	Snap in / front-side	Snap in / front-side	Stand alone module
TERMINALS FOR	Wire leads	Wire leads	Wire leads	
		 with cover on the rear side with carrier frame for accessory modules	NEW 	
TYPE	0909	4752 / 4754 / 4758	1050 / 1051 0712	4747 / 4748
PIN TEMPERATURE	70°C	70°C	70°C	70°C
PROTECTION CLASS	I	I	I	I

RATINGS, IEC/UL	10 A / 15 A @250 V	
PANEL MOUNTING	Stand alone module	
TERMINALS FOR		
	 Outlets shuttered	<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 Outlets shuttered
TYPE	4740	4741
PIN TEMPERATURE	70°C	70°C
PROTECTION CLASS	I	I





POWER ENTRY MODULE WITHOUT EMC FILTER







RATINGS, IEC/UL	2.5 A @250 V	10 A @125 V / 250 V		10-15 A @250 V
PANEL MOUNTING		Sandwich or rear-side	Screw-on or Snap-in / front-side	Snap-in
TERMINALS	PCB	PCB	Quick-connect	Solder/Quick-connect
				NEW 
TYPE	CMF 1, 2, 3	KP01	KEB I	1074
LINE SWITCH	1-pole	2-pole	1-pole	1-pole
FUSEHOLDER				
TYPE WITH LINE FILTER		KPE	KFB I	
RATINGS, IEC/UL	10 A @250 V / 15 A @125 V	10 A @250 V	10 A @250 V	
PANEL MOUNTING	Screw-on Snap-in / front-side	Snap-in	Snap-in / rear-side	
TERMINALS	Quick-connect	Solder/Quick-	Quick-connect	Quick-connect
		NEW 		
TYPE	KEB II	6010K	GRM1	PMM
LINE SWITCH	2-pole	1- or 2-pole	2-pole	2-pole
FUSEHOLDER			5x20 / 1- or 2-pole	
VOLTAGE SELECTOR			Jumper	Jumper
COMMENT			Fuse on rear-side	
TYPE WITH LINE FILTER	KFB II		GRM2, GRM4	
RATINGS, IEC/UL	10 A / 12* A @250 V	11 A @125 V / 250 V	10 A @250 V	
PANEL MOUNTING	Screw-on Snap-in / front-side	Screw-on / rear-side	Snap-in / front-side	Screw-on / rear-side
TERMINALS	Quick-connect	PCB	Quick-connect	Quick-connect
*15 A version available				NEW 
TYPE	DC11	DC21	KM	DD11
LINE SWITCH	1- or 2-pole	2-pole	2-pole	2-pole
FUSEHOLDER			5x20 / 1- or 2-pole	5x20 / 1- or 2-pole
VOLTAGE SELECTOR				
TYPE WITH LINE FILTER	DC12	DC22	KM, KME	

POWER ENTRY MODULE WITHOUT EMC FILTER







RATINGS, IEC/UL	10 A / 15 A @250 V		16-21 A @250 V	10 A / 15 A @250 V	
PANEL MOUNTING	Screw-on / Snap-in	Screw-on	Snap-in	Screw-on	Snap-in / front-side
TERMINALS	Quick-connect	Quick-connect	Solder/Quick-connect	Quick-connect	
			NEW 		
TYPE	DF11	6145	1624K	KID	
LINE SWITCH	2-pole recessed switch	2-pole non-recessed switch	1-pole	2-pole	
FUSEHOLDER				5x20 or 6.3x32 / 1- or 2-pole	
VOLTAGE SELECTOR				Step	
COMMENT	with circuit breaker TA45 2-pole		with circuit breaker 1-pole		
TYPE WITH LINE FILTER	DF12	5145		CD	

RATINGS, IEC/UL	10 A @250 V		10 A @250 V / 8 A @125 V	10 A / 15 A @250 V	
PANEL MOUNTING	Screw-on	Snap-in	Screw-on / Snap-in	Screw-on	Snap-in / front-side
TERMINALS	Solder/Quick-connect		Quick-connect	Quick-connect	
	NEW 	NEW 			
TYPE	6765 / 6762	6762 Snap-in	KID / KG	KG	
LINE SWITCH	2-pole	2-pole		2-pole	
FUSEHOLDER	5x20	5x20	Types KD and KG with line switch for Bowdencable	5x20 or 6.3x32 / 1- or 2-pole	
VOLTAGE SELECTOR				Series / Parallel	
COMMENT					
TYPE WITH LINE FILTER			CD / CG	CG	

POWER ENTRY MODULE WITHOUT EMC FILTER














RATINGS, IEC/UL	10 A @125 V / 250 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	
VOLTAGE SELECTOR	Step		Series / Parallel	
COMMENT				
TYPE WITH LINE FILTER	KFC		CE	

RATINGS, IEC/UL	10 A @125 V / 250 V		
PANEL MOUNTING	Snap-in / front-side		
TERMINALS	Solder/Quick-connect		
			
TYPE	64 FELCOM		
LINE SWITCH			2-pole
FUSEHOLDER	5x20 / 1- or 2-pole		
VOLTAGE SELECTOR			
COMMENT			
TYPE WITH LINE FILTER	54 FELCOM		

POWER ENTRY MODULE WITHOUT EMC FILTER








RATINGS, IEC/UL	10 A @250 V		
PANEL MOUNTING	Sandwich or rear-side	Sandwich or rear-side	Snap-in / front-side
TERMINALS	PCB	PCB	Quick-connect
	 Inlet and fuseholder  Inlet and outlet	Standard version  Pick and place version 	 
TYPE	KP01	GSF1	GSF2
LINE SWITCH			
FUSEHOLDER	5x20 / 1-or 2-pole	5x20 / 1- or 2-pole	5x20 / 1- or 2- pole
VOLTAGE SELECTOR			
COMMENT		Fuse on rear-side	Fuse on rear-side
TYPE WITH LINE FILTER	KPE		

RATINGS, IEC/UL	10 A @250 V		
PANEL MOUNTING	Screw-on Snap-in / front-side	Screw-on Snap-in / front-side	Screw-on
TERMINALS	Quick-connect	PCB	Solder/Quick-connect
	 	 	NEW 
TYPE	KEA	KEA - Print	1067
LINE SWITCH			
FUSEHOLDER	5x20 / 1-or 2-pole	5x20 / 1-or 2-pole	5x20 / 1-or 2-pole
VOLTAGE SELECTOR	Step		Step
COMMENT			
TYPE WITH LINE FILTER	KFA		

POWER ENTRY MODULE WITHOUT EMC FILTER





RATINGS, IEC/UL	10 A @250 V			
PANEL MOUNTING	Screw-on	Snap-in / front-side	Screw-on	Snap-in / front-side
TERMINALS	Solder/Quick-connect		Solder/Quick-connect	
				
TYPE	6200		6220	
LINE SWITCH				
FUSEHOLDER	5x20 / 1-pole		5x20 / 2-pole	
VOLTAGE SELECTOR				
COMMENT	Protection class II Type 6202			
TYPE WITH LINE FILTER	5200		5220	

RATINGS, IEC/UL	6 A / 10 A @250 V			
PANEL MOUNTING	Screw-on	Screw-on	Snap-in / front-side	
TERMINALS	Solder/Quick-connect	Quick-connect	Solder	
				
TYPE	4707	8842 / 8843	4719	
LINE SWITCH				
FUSEHOLDER	5x20 / 1-or 2-pole		5x20 / 1-pole	
VOLTAGE SELECTOR				
COMMENT			Outlet shuttered / with or without neon indicator	
TYPE WITH LINE FILTER	5707			

POWER ENTRY MODULE WITHOUT EMC FILTER



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

REWIREABLES



RATINGS, IEC/UL	10 A / 15 A @250 V			
TYPE	4782 4785	4781 4784	4732, 4735 4733, 4736	P685 4300-06
PIN TEMPERATURE	70°C	120°C	70°C	70°C
PROTECTION CLASS	I	I	I	I
COMMENT	18 - 14 AWG	18 - 14 AWG	18 - 14 AWG	18 AWG

RATINGS, IEC/UL	16 A @250 V			
TYPE	4795 4796	4789 4790	4300.0921 4300.0922	
PIN TEMPERATURE	70°C	70°C	70°C	
PROTECTION CLASS	I	I	I	
COMMENT	16 - 14 AWG	16 - 14 AWG	14 - 12 AWG	

Accessories for Power Entry Modules and Cord Connectors:



Type 0859 insulating cover available in various sizes







Type 4700 cord retaining kits available in various sizes







Type 0888 cord retaining clamp

CORDSETS



CONNECTOR	IEC / EN 60320-1 / C13, protection class I, pin temperature 70°C (cold condition)			
				
TYPE	6010			
PLUG	North America	Japan	Continental Europe	United Kingdom
STANDARD	NEMA 5-15	JIS 8303	CEE 7 / VII	BS 1363A (fuse fitted)
CORD TYPE	SJT	HVCTF3G0.75	H05VV-F3G1.0	H05VV-F3G0.75 (3A + 5A) H05VV-F3G1.0 (13A)
CONDUCTOR	3 x 18 AWG	3 x 0.75 mm ²	3 x 1.00mm ²	3 x 0.75 mm ² (3A + 5A) 3 x 1.00 mm ² (13A)
RATED CURRENT / VOLTAGE	10 A / 125 V	7 A / 125 V	10 A / 250 V	10 A / 250 V
COLOR	black	black	black	black
LENGTH	2.5 meters	2.0 meters	2.5 meters	2.0 meters (3A+5A) 2.5 meters (13A)
	Cordsets supplied by SCHURTER carry the country specific approvals			
ORDER NUMBER	6009.1315	6047.6414	6003.0215	6045.0114 (3A) 6043.0114 (5A) 6044.0215 (13A)

CORDSETS

CONNECTOR	IEC / EN 60320-1 / C13, protection class I, pin temperature 70°C (cold condition)			
				
TYPE	6010			
PLUG	Italy	Switzerland	IEC Coupler	Continental Europe
STANDARD	CEI 23-16 / VII	SEV 1011	IEC/EN 60320-2-2/E	CEE 7 / VII angled
CORD TYPE	H05VV-F3G1.0	H05VV-F3G1.0	H05VV-F3G1.0	H05VV-F3G1.0
CONDUCTOR	3 x 1.00 mm ²	3 x 1.00 mm ²	3 x 1.00 mm ²	3 x 1.00 mm ²
RATED CURRENT / VOLTAGE	10 A / 250 V	10 A / 250 V	10 A / 250 V	10 A / 250 V
COLOR	black	black	black	black
LENGTH	2.5 meters	2.5 meters	see below	2.5 meters
ORDER NUMBER	Cordsets supplied by SCHURTER carry the country specific approvals			
	6026.0215	6011.0215	6007.0212 (1 meter) 6007.0214 (2 meters)	6004.0215

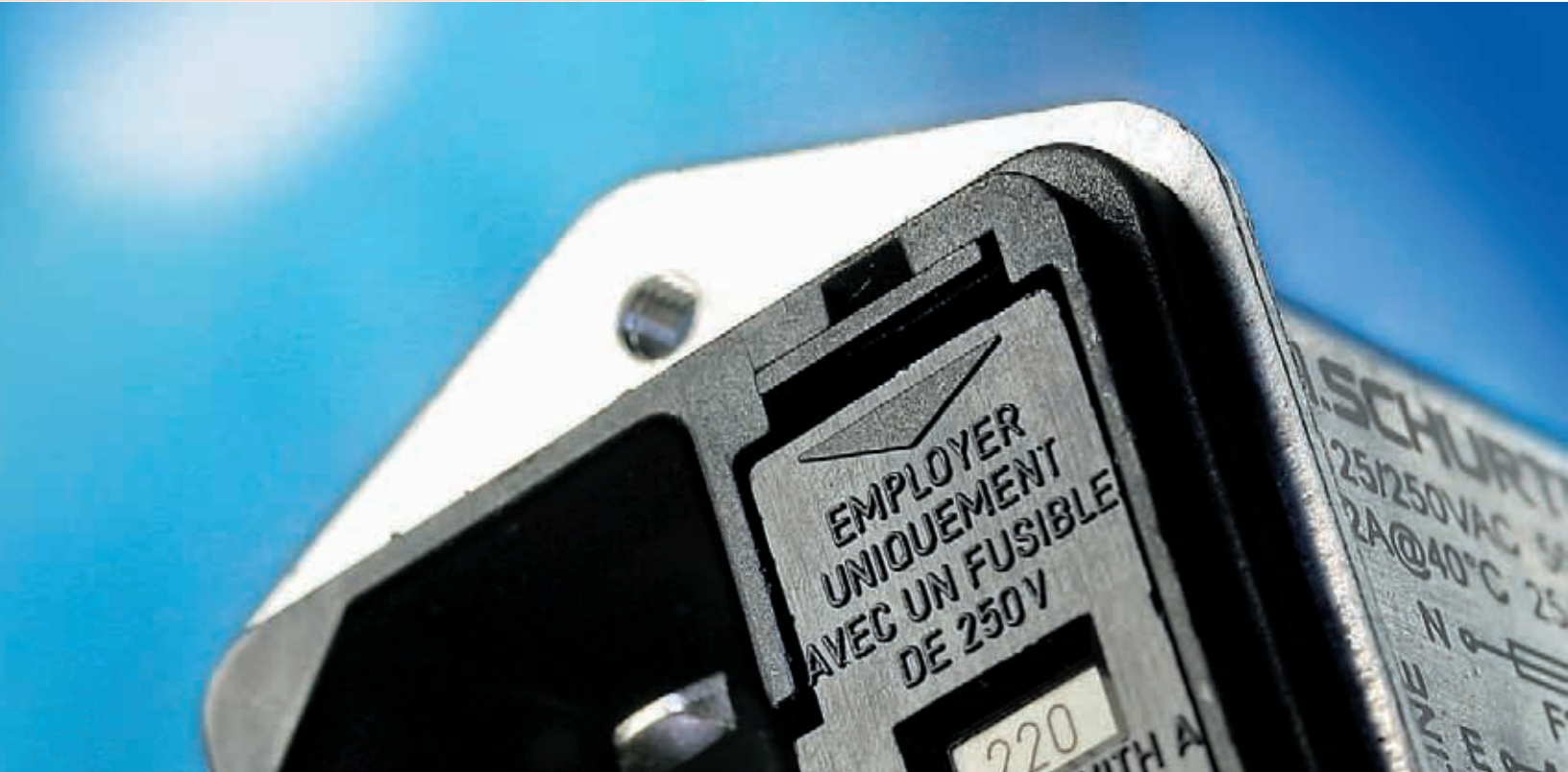
CORDSETS



CONNECTOR	IEC / EN 60320-1 / C13, protection class I, pin temperature 70°C (cold condition)	IEC / EN 60320-1 / C19	IEC / EN 60320-1 / C19		
TYPE	4300	6009	0888	6051 (CS)	
PLUG	Medical Grade	North America	Medical Grade North America	Europlug	North America
STANDARD	NEMA 5-15P	NEMA 5-15P	NEMA 5-15P(.0221) NEMA 6-20P(.0222)	EN 50075 / DIN 49464	NEMA 5-15
CORD TYPE	SJT	SJT	SJT, 3x14 AWG / 3x12 AWG	H03VVH2-F	SPT 2x18 AWG
CONDUCTOR	3 x 18 AWG	3 x 0.75 mm ²		2 x 0.75 mm ²	2 x 0.75 mm ²
RATED CURRENT / VOLTAGE	10 A / 125, 250 V 15 A / 125 V	16 A / 250 V	15 A / 125 V 20 A / 250 V	2.5 A / 250 V	10 A / 125 V
COLOR	clear	black	grey or black	black	
LENGTH	10 feet	2.5 meters	10' / 8' 2"	2 meters	2.5 meters
	Cordsets supplied by SCHURTER carry the country specific approvals				
ORDER NUMBER	4300.0920	6009.5195	0888.0221 (grey) 0888.0222 (black)	6051.0011 (CS01.0121.150)	6051.0018 (CS01.0221.150)







EMC Products










POWER ENTRY MODULE WITH EMC FILTER



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

RATINGS	10 A @250 V			
PANEL MOUNTING	Screw-on	Screw-on	Screw-on	Screw-on
TERMINALS	Quick-connect	Quick-connect	Quick-connect	Quick-connect
				 version with metal flange
TYPE	KFB I	KFB II	DC12	DC12
LINE SWITCH	1-pole	2-pole	1- or 2- pole	
FUSEHOLDER				
VOLTAGE SELECTOR				
TYPE WITHOUT LINE FILTER	KEB I	KEB II	DC 11	





RATINGS	10 A @250 V			
PANEL MOUNTING	Snap-in		Screw-on / rear-side	Screw-on / rear-side
TERMINALS	Quick-connect		PCB	PCB
				 NEW
TYPE	DC12		DC22	DD22
LINE SWITCH	1- or 2-pole		1- or 2-pole	2-pole
FUSEHOLDER				2-pole
VOLTAGE SELECTOR				
TYPE WITHOUT LINE FILTER	DC11		DC21	DD21




RATINGS	10 A @250 V			
PANEL MOUNTING	Snap-in / front-side		Screw-on	Sandwich or rear-side
TERMINALS	Quick-connect		Quick-connect	PCB
	 without line filter, with shield		 NEW	
TYPE	KM	KMF	DD12	KPF
LINE SWITCH	2-pole			
FUSEHOLDER	5x20 / 1- or 2-pole			
VOLTAGE SELECTOR				
COMMENT				without shield only in combination with base-module type KP01
TYPE WITHOUT LINE FILTER	KM		KM	KP01





POWER ENTRY MODULE WITH EMC FILTER



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

RATINGS	10 A @250 V			
PANEL MOUNTING	Snap-in / rear-side		Screw-on	Screw-on
TERMINALS	Quick-connect		Quick-connect	Quick-connect
		<p style="color: red;">Phasing out</p>  <p style="color: red;">Not recommended for new design</p>		
TYPE	GRM 2	GRM 4	DF12	5145
LINE SWITCH	2-pole		2-pole	2-pole
FUSEHOLDER	5x20 / 1- or 2-pole			
VOLTAGE SELECTOR	Jumper	Jumper		
COMMENT	Fuse on rear-side		With circuit breaker TA45	
TYPE WITHOUT LINE FILTER	GRM 1	GRM 1	DF11	6145






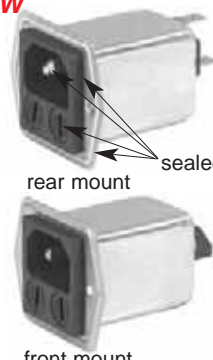


RATINGS	10 A @250 V		
PANEL MOUNTING	Screw-on	Screw-on	Snap-in / front-side
TERMINALS	Quick-connect	Quick-connect	Solder/Quick-connect
			
TYPE	CD	CG	54 FELCOM
LINE SWITCH	2-pole	2-pole	2-pole
FUSEHOLDER	5x20 or 6,3x32 / 1- or 2-pole	5x20 or 6,3x32 / 1- or 2-pole	5x20 / 1- or 2-pole
VOLTAGE SELECTOR	Step	Series / Parallel	
COMMENT	Additional versions with line switch for Bowdencable available		
TYPE WITHOUT LINE FILTER	KD	KG	64 FELCOM

RATINGS	10 A @250 V			
PANEL MOUNTING	Screw-on	Screw-on	Screw-on	Screw-on
TERMINALS	Quick-connect	Quick-connect	Quick-connect	Quick-connect
				
TYPE	FKH	FKI	FKHD	FKID
LINE SWITCH	2-pole	2-pole	2-pole	2-pole
FUSEHOLDER	5x20 / 1-pole	5x20 / 2-pole	5x20 / 1-pole	5x20 / 2-pole
VOLTAGE SELECTOR				
COMMENT	1-stage	1-stage	2-stage	2-stage
TYPE WITHOUT LINE FILTER				

POWER ENTRY MODULE WITH EMC FILTER









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






RATINGS	10 A @250 V			
PANEL MOUNTING	Snap-in / rear-side	Screw-on	Snap-in	Screw-on / Snap-in
TERMINALS	Quick-connect	Quick-connect/Wire	Quick-connect	Quick-connect
		NEW version with metal flange 		
TYPE	GRF2 / GRF4	KFA	KFA	5200
LINE SWITCH				
FUSEHOLDER			5x20 / 1- or 2-pole	5x20 / 1-pole
VOLTAGE SELECTOR			Step	
COMMENT	With shield or line filter			
TYPE WITHOUT LINE FILTER		KEA		6200
RATINGS	10 A @250 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
		NEW  rear mount sealed front mount		
TYPE	5220	5707	KFC	CE
LINE SWITCH				
FUSEHOLDER	5x20 / 2-pole	5x20 / 1- or 2-pole	5x20 or 6.3x32 1- or 2-pole	5x20 or 6.3x32 / 1- or 2-pole
VOLTAGE SELECTOR			Step	Series / Parallel
COMMENT		IP65 Seal to chassis		
TYPE WITHOUT LINE FILTER	6220		KEC	KE

POWER ENTRY MODULE WITH EMC FILTER




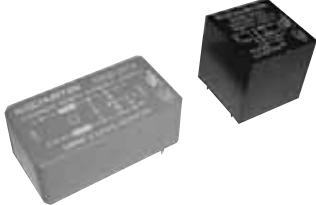

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RATINGS	10 A @250 V			15 A @125 VDC
PANEL MOUNTING	Screw-on or Snap-in	Screw-on	Screw-on / front or rear-side / Snap-in	Screw-on / front or rear-side
TERMINALS	Quick-connect	Quick-connect/Wire	Quick-connect	Quick-connect
			NEW 	NEW 5003 AMP or molex  snap-in  screw-on  5003 molex screw-on
TYPE	5110	FGS	5120 / 5150	5003
LINE SWITCH				
FUSEHOLDER				
VOLTAGE SELECTOR				
COMMENT			5150 for high frequency	
TYPE WITHOUT LINE FILTER	6100-3 , 6100-4			

RATINGS	16 A / 20 A @250 V		16 A / 20 A @250 V
PANEL MOUNTING	Screw-on	Screw-on	Screw-on or Snap-in
TERMINALS	Quick-connect	Quick-connect	Solder/Quick-connect/Wire
			NEW 5130 ECO  version with metal flange  Front or rear mounting  Rear mounting only
TYPE	EC12	EF12	C20F / 5130 ECO
LINE SWITCH	2-pole	2-pole	
FUSEHOLDER			
VOLTAGE SELECTOR			
COMMENT		With circuit breaker TA45	C20F with potting 5130 ECO new design (unpotted)
TYPE WITHOUT LINE FILTER	EC11	EF11	4798 , 4793

SINGLE PHASE LINE FILTERS





RATED VOLTAGE	125 / 250 VAC, 50 / 60 HZ		
CURRENT RATING	1-6A @ 40°C	0.5 - 6.5A @ 40°C	0.5 - 6.5A @ 40°C
MOUNTING	PCB	PCB	PCB
TERMINALS	PCB or quick-connect	PCB	PCB
CASE	Plastic	Plastic	Aluminum
			
TYPE	5500	FPP	FMAB-72
ATTENUATION	Standard	Standard	Standard
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



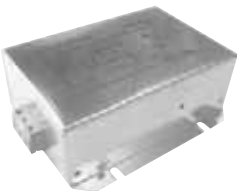

RATED VOLTAGE	125 / 250 VAC, 50 / 60 HZ		
CURRENT RATING	1 -10A @ 40°C	6 - 20A @ 40°C	
MOUNTING	Chassis	Chassis	
TERMINALS	Quick-connect	Quick-connect	
CASE	Aluminum	Aluminum	
			
TYPE	FMLB-41	FMLB-09	
ATTENUATION	Standard	Standard	
APPLICATION	All-purpose	All-purpose	
LEAKAGE CURRENT	Standard and medical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

SINGLE PHASE LINE FILTERS




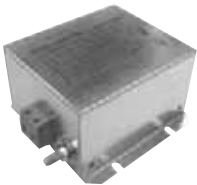
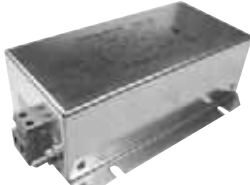
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RATED VOLTAGE	125 / 250 VAC, 50 / 60 HZ	
CURRENT RATING	6 - 20A @ 40°C	1 -10A @ 40°C
MOUNTING	Chassis	Chassis
TERMINALS	Quick-connect	Quick-connect
CASE	Aluminum	Aluminum
		
TYPE	FMLB-51	FMW-41
ATTENUATION	Standard	Standard
APPLICATION	All-purpose	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	125 / 250 VAC, 50 / 60 HZ			
CURRENT RATING	2 -6A @ 40°C	1 -20A @ 40°C	4 - 30A @ 40°C	1 -10A @ 40°C
MOUNTING	Chassis		Chassis	
TERMINALS	Quick-connect		Screw	Quick-connect
CASE	Aluminum		Metal	Aluminum / Metal
				
TYPE	FMW-52	FMW-55	FMW-150	FSS
ATTENUATION	High	Standard	Medium / wide range	
APPLICATION	For high requirements	All-purpose	High common- and differential mode attenuation	Especially effective against differential mode interference
LEAKAGE CURRENT	Standard	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

SINGLE PHASE LINE FILTERS



RATED VOLTAGE	125 / 250 VAC, 50 / 60 HZ		
CURRENT RATING	3 - 10A @ 40°C	12 - 30A @ 40°C	8 - 25A @ 40°C
MOUNTING	Chassis		
TERMINALS	Quick-connect	Screw	
CASE	Aluminum	Aluminum / metal	
			
TYPE	FSW	FMAB	FMBB
ATTENUATION	High	Premium	
APPLICATION	Especially effective against 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	80 VDC	
CURRENT RATING	5-30 A @ 40°C	
MOUNTING	Chassis	
TERMINALS	Quick-connect 6.3x0.8 mm or Screw	
CASE	Aluminum	
		
TYPE	FMEB	FMEC
ATTENUATION	Standard	
APPLICATION	Especially effective against common mode interference	
LEAKAGE CURRENT		
FILTER STAGE	1	1
FEATURE	For industry applications with DC power supply	





3-PHASE LINE FILTERS







RATINGS, IEC	8 - 32 A / 550 VAC	8 - 64 A / 480 VAC	10 - 115 A / 480 VAC	6 - 1100 A / 520 VAC
MOUNTING STYLE	Chassis from top	Screw-on from top	Screw-on from top	Screw-on from top
TERMINALS	Screw Clamp	Screw Clamp	Screw Clamp/Flexible wires	Screw Clamp
TYPE	FMAC-Out	FMBC<64A	FMBC<115A	FMAC
FILTER-TYPE	Standard version	Standard version	Standard version	Standard version
ATTENUATION	Standard	Premium	Premium	High
FILTER STAGE	1	2	2	1
APPLICATION	Output filtering on frequency converters	For high attenuation requirements	For high attenuation requirements	General purpose
MATERIALS: HOUSING	Metal	Metal	Metal	Metal
PROTECTION CLASS	I	I	I	I





RATINGS, IEC	3 - 20 A / 440 VAC	6 - 250 A / 480 VAC	16 - 150 A / 480 VAC	10 - 115 A / 480 VAC
MOUNTING STYLE	Screw-on from top	Screw-on from top	Screw-on from top or side	Screw-on from top or side
TERMINALS	Quick-connect	Screw clamp	Screw terminals	Screw terminals
TYPE	FMW4	FMAD	FMAC ECO	FMBC ECO
FILTER-TYPE	Standard version	Standard version	Standard version	Standard version
ATTENUATION	Standard	High	Good	Good
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	Aluminum	Aluminum
PROTECTION CLASS	I	I	I	I







SUPPRESSION CHOKES

RATINGS	6 A / 440 VAC	0.5 - 15 A / 440 VAC	10 - 50 A / 540 VAC	10 - 50 A / 540 VAC
MOUNTING STYLE	Screw-on version from top	Screw-on version from top	Screw-on version from top	Screw-on version from top
TERMINALS	THT, Flexible wire	THT, Flexible wire	Flexible wire	THT
				
TYPE	DFK4	DFK2-40	DKIP-1	DKIL-1
CHOKE	Compensated multiple choke	Compensated multiple choke	High current choke	High current choke
INDUCTANCE	1.5 mH	1.5 - 20 mH	1.1 - 12 mH	1.1 - 12 mH
NUMBER OF COILS	4	2/4	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	Thermoplastic	Thermoplastic	Thermoplastic





RATINGS	10 - 50 A / 540 VAC	10 - 20 A / 540 VAC	0.5 - 15 A / 440 VAC	0.4 - 6.3 A / 440 VAC
MOUNTING STYLE	Screw-on version from top	Screw-on version from top	Screw-on version from top	PCB mounted from top
TERMINALS	Flexible wire	THT	THT, Flexible wire	THT
				
TYPE	DKIP-3	DKIL-3	DFK	DFKF
CHOKE	High current choke	High current choke	Compensated multiple choke	Compensated multiple choke
INDUCTANCE	1 - 5 mH	1 - 5 mH	1.5 - 20 mH	0.6 - 40 mH
NUMBER OF COILS	3	3	2/4	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	Thermoplastic	Thermoplastic	Thermoplastic





SUPPRESSION CHOKES

RATINGS	0.5 - 2 A / 440 VAC	0.5 - 2A / 440 VAC	0.6 - 6.3 A / 440 VAC	3 - 20 A / 540 VAC
MOUNTING STYLE	PCB mounted from top	PCB mounted from top	PCB mounted from top	Screw-on version from top
TERMINALS	THT	SMD	THT	Flexible wire
				
TYPE	DKFP	DKFS	DFKH	DKLP<60mH
CHOKE	Compensated multiple choke	Compensated multiple choke	High current choke	High current choke
INDUCTANCE	0.5 - 40 mH	0.5 - 4 mH	0.6 - 50 mH	4 - 60 mH
NUMBER OF COILS	2	2	2	2/3
APPLICATION	Especially effective against asymmetrical interference	Especially effective against asymmetrical interference	Especially effective against asymmetrical interference	Especially effective against asymmetrical interference
MATERIALS: HOUSING	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic



RATINGS	4 - 8 A / 540 VAC	0.6 - 7 A / 600 VDC	0.6 - 7 A / 600 VDC	0.6 - 1 A / 600 VDC
MOUNTING STYLE	Screw-on version from top	PCB mounted from top	PCB mounted from top	PCB mounted from top
TERMINALS	THT	THT	THT	THT
		 	 	
TYPE	DKLL<60mH	DLF	DLH	DLNP
CHOKE	Compensated multiple choke	Linear choke	Linear choke	Linear choke
INDUCTANCE	4 - 60 mH	0.015 - 3 mH	0.02 - 5.5 mH	0.05 - 0.1 mH
NUMBER OF COILS	2/3	1	1	1
APPLICATION	Especially against asymmetrical interference	Power electronics	Power electronics	Power electronics
MATERIALS: HOUSING	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic

SUPPRESSION CHOKES





RATINGS	0.8 - 10 A / 440 VAC	5 - 45 A / 440 VAC	5 - 45 A / 440 VAC	16 A - 25 A
MOUNTING STYLE	PCB mounted from top	Screw-on version from top	Screw-on version from top	PCB mounted from top
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	Thermoplastic	Thermoplastic	Thermoplastic





RATINGS	16 A	16 - 25 A	0.5 - 6 A / 600 VDC	VDC
MOUNTING STYLE	PCB mounted from top	PCB mounted from top	PCB mounted from top	PCB mounted from top
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	0.035 - 1 mH	0.011 - 3.7 mH
NUMBER OF COILS				1
APPLICATION	Interference suppression	Interference suppression	Storage of energy in switched power supplies	Storage of energy in switched power supplies
MATERIALS: HOUSING			Thermoplastic	Thermoplastic

SUPPRESSION CHOKES





RATINGS	0.45 - 6.3 A / 600 VDC	0.45 - 16 A / 600 VDC
MOUNTING STYLE	PCB mounted / Screw-on version from top	
TERMINALS FOR	THT or SMD	Wire leads
		
TYPE	DSH / DSHP	DSO / DLO
CHOKE	Storage choke	Storage choke
INDUCTANCE	0.01 - 2 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	





PULSE TRANSFORMERS

RATED VOLTAGE	500 VAC	500 VAC	500 VAC	500 VAC
MOUNTING STYLE	PCB mounted from top	PCB mounted from top	PCB mounted from top	PCB mounted from top
TERMINALS FOR	THT	THT	THT	THT
				
TYPE	IL1	IL5	IL7	ILR1
TURN RATIO	1:1	1:1:1	3:1:1	1:1
POWER	0.5 - 1.1 W	0.5 - 1.1 W	0.5 W	0.5 W
VOLTAGE-TIME INTEGRAL	250 - 500 V μ s	200 - 300 V μ s	200 V μ s	300 V μ s
APPLICATION	Control of semi-conductors in power electronics	Control of semi-conductors in power electronics	Control of semi-conductors in power electronics	Control of semi-conductors in power electronics
MATERIALS: HOUSING	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic
PULSE RISE TIME	1 V/ μ s	0.5 - 1 V/ μ s	0.7 V/ μ s	0.2 V/ μ s





RATINGS	500 VAC	500 VAC	600 VAC	600 VAC
MOUNTING STYLE	PCB mounted from top	PCB mounted from top	PCB mounted from top	PCB mounted from top
TERMINALS FOR	THT	THT	THT	THT
				
TYPE	ILR2	ILR3	ITNA	ITNB
TURN RATIO	2:1	3:1	1:1	2:1
POWER	0.5 W	0.5 W	0.5 - 1 W	0.7 - 1 W
VOLTAGE-TIME INTEGRAL	200 V μ s	200 V μ s	150- 400 V μ s	250 - 350 V μ s
APPLICATION	Control of semi-conductors in power electronics	Control of semi-conductors in power electronics	Control of semi-conductors in power electronics	Control of semi-conductors in power electronics
MATERIALS: HOUSING	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic
PULSE RISE TIME	0.3 V/ μ s	0.3 V/ μ s	0.05 - 1.5 V/ μ s	1 - 1.5 V/ μ s

PULSE TRANSFORMERS




RATED VOLTAGE	600 VAC	600 VAC	600 VAC	600 VAC
MOUNTING STYLE	PCB mounted from top	PCB mounted from top	PCB mounted from top	Screw-on version from top
TERMINALS FOR	THT	THT	THT	THT
				
TYPE	ITNF	ITRA	ITRB	ITRF
TURN RATIO	1:1:1	1:1	2:1	1:1:1
POWER	0.5 - 1 W	0.5 - 1 W	0.7 - 1 W	0.5 - 1 W
VOLTAGE-TIME INTEGRAL	150 - 350 V μ s	200 - 300 V μ s	250 - 350 V μ s	150 - 350 V μ s
APPLICATION	Control of semi-conductors in power electronics	Control of semi-conductors in power electronics	Control of semi-conductors in power electronics	Control of semi-conductors in power electronics
MATERIALS: HOUSING	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic
PULSE RISE TIME	0.9 - 1.5 V μ s	0.05 V μ s	0.05 - 0.5 V μ s	0.05 - 0.5 V μ s

RATED VOLTAGE	500 VAC	500 VAC	600 VAC	600 VAC
MOUNTING STYLE	PCB mounted from top	PCB mounted from top	PCB mounted from top	PCB mounted from top
TERMINALS FOR	THT	THT	SMD	SMD
				
TYPE	IX5	IX7	ISNA	ISNB
TURN RATIO	1:1:1	1:1:1	1:1	2:1
POWER	2 W	2 W	0.5 - 1 W	0.7 - 1 W
VOLTAGE-TIME INTEGRAL	500 V μ s	500 V μ s	200- 400 V μ s	250 - 350 V μ s
APPLICATION	Control of semi-conductors in power electronics	Control of semi-conductors in power electronics	Control of semi-conductors in power electronics	Control of semi-conductors in power electronics
MATERIALS: HOUSING	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic
PULSE RISE TIME	0.8 V μ s	0.7 V μ s	0.9 - 1 V μ s	1 - 1.5 V μ s

PULSE TRANSFORMERS

RATED VOLTAGE	600 VAC	600 VAC	600 VAC	600 VAC
MOUNTING STYLE	PCB mounted from top	PCB mounted from top	PCB mounted from top	Screw-on version from top
TERMINALS FOR	SMD	SMD	SMD	SMD
				
TYPE	ISNF	ISRA	ISRB	ISRF
TURN RATIO	1:1:1	1:1	2:1	1:1:1
POWER	0.5 - 1 W	0.5 - 1 W	0.7 - 1 W	0.5 - 1 W
VOLTAGE-TIME INTEGRAL	150 - 350 V μ s	200 - 400 V μ s	250 - 350 V μ s	150 - 350 V μ s
APPLICATION	Control of semi-conductors in power electronics	Control of semi-conductors in power electronics	Control of semi-conductors in power electronics	Control of semi-conductors in power electronics
MATERIALS: HOUSING	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic
PULSE RISE TIME	0.9 - 1.5 V μ s	0.05 - 0.1 V μ s	0.05 - 0.5 V μ s	0.05 - 0.5 V μ s

POWER STAGE DRIVER MODULES

RATED VOLTAGE	2.4W, 500 kHz	2.4W, 100 kHz	2.4W, 100 kHz
MOUNTING STYLE	PCB mounted from top	PCB mounted from front side	PCB mounted from top
TERMINALS FOR	THT	THT	THT
			
TYPE	PSDM	PSDM-6T	PSDM-60
DESCRIPTION	DC/DC Converter	DC/DC converter, pulse transformer	DC/DC converter, optocoupler
APPLICATION	Control of semi-conductors in power electronics	Control of semi-conductors in power electronics	Control of semi-conductors in power electronics
MATERIALS: HOUSING	Thermoplastic	Thermoplastic	Thermoplastic












Circuit Breakers



CIRCUIT BREAKERS FOR EQUIPMENT



MOUNTING STYLE	Snap-in from front side	Snap-in from back side	Thread neck	Accessory: Protection cover For type T9-311 Protection IP65
				 TZZ31
TYPE	T9-611	T9-711	T9-311	
POLES	1 pole	1 pole	1 pole	
METHOD OF TRIPPING	Thermal	Thermal	Thermal	
RATED VOLTAGE	240 VAC 48 VDC	240 VAC 48 VDC	240 VAC 48 VDC	
RATED CURRENT	4A - 16A (0.25- 3A pending)			
ENDURANCE	6000 cycles @1.5x In In = 12A - 16A	6000 cycles @1.5x In In = 12A - 16A	6000 cycles @1.5x In In = 12A - 16A	
INTERRUPTING CAPACITY	8x In / 2000A	8x In / 2000A	8x In / 2000A	

MOUNTING STYLE	Thread neck	Thread neck, snap-in	Thread neck	Thread neck	Thread neck, snap-in
					
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	250 VAC 28 VDC	125/250 VAC 50 VDC	125/250 VAC 32 VDC
RATED CURRENT	0.05A - 16A	0.05A - 16A	0.05A - 30A	3 - 40A	3 - 16A
ENDURANCE	1000 cycles @2x In In = 0.05A	5000 cycles @1x In	10000 cycles @1x In	>500 cycles @1.5x In	>500 cycles @1.5x In
INTERRUPTING CAPACITY	8x In / 96A	8x In / 200A / 400A	8x In / 400A	200A	200A

CIRCUIT BREAKERS FOR EQUIPMENT



MOUNTING STYLE	Snap-in	Snap-in	Snap-in	
TYPE	TA 35 1 Pole Rocker	TA 35 2 Pole Rocker	TA 35 3 Pole Rocker	
POLES	1	2	3	
METHOD OF TRIPPING	Thermal			
RATED VOLTAGE	240 VAC / 32-60 VDC		420V/ 240V AC	
RATED CURRENT	0.05A - 20A		0.05A - 12A	
ENDURANCE	50000 cycles at In			
INTERRUPTING CAPACITY	10x In / 300A		10x In	


MOUNTING STYLE	Snap-in	Snap-in, flange type	Snap-in	Snap-in, flange type
TYPE	TA 45 2 Pole Rocker	TA 45 2 Pole Pushbutton	TA 45 3 Pole Rocker	TA 45 3 Pole Pushbutton
POLES	2		3	
METHOD OF TRIPPING	Without protection, thermal, undervoltage, mechanical release			
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

For type TA35			For type TA45		
Protection IP 65					
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

CIRCUIT BREAKERS FOR EQUIPMENT



MOUNTING STYLE	Thread neck, flange type		
			
TYPE	TM12		
POLES	1 pole		
METHOD OF TRIPPING	Thermal-magnetic		
RATED VOLTAGE	240 VAC 28 VDC		
RATED CURRENT	0.05A - 16A		
ENDURANCE	5000 cycles		
INTERRUPTING CAPACITY	200A / 400A		


MOUNTING STYLE	Snap-in with DIN-Rail		
			
TYPE	AS168X		
POLES	1 pole	2 pole	3 pole
METHOD OF TRIPPING	Thermal-magnetic		
RATED VOLTAGE: AC version	480 VAC / 65 VDC	480 VAC / 65 VDC	
DC version	180 VDC	360 VDC	
RATED CURRENT	0.5A - 52A		
ENDURANCE	> 6000 cycles at In		
INTERRUPTING CAPACITY	10kA		







Input Systems






FRONTPANEL - SWITCHES AND PUSHBUTTONS

MINIMAL SPACING (mm)	10	27	18	15
ACTION FUNCTION	Momentary / Latching	Momentary	Momentary	Latching
FUNCTION	NO	NO	NO	NO
SWITCHING CURRENT MAX.				10-16 A / 250 V
SWITCHING VOLTAGE MAX.				
IP RATING				
				
TYPE	LDT LDS	SSM	MCS 18	RSS RSM RSL
APPROVALS				
CONTACT	1 or 2 pole	1 pole	1 pole	1 or 2 pole
FRONT PANEL MOUNTING	• and pcb	•	•	•
ILLUMINATION AVAILABLE	•			





MINIMAL SPACING (mm)	10	
ACTION FUNCTION	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 65
		
TYPE	EMF / AF	SBF / SEK
APPROVALS		
CONTACT	1 or 2 pole	1 or 2 pole
FRONT PANEL MOUNTING	•	•
ILLUMINATION AVAILABLE	•	•

PRINTMOUNT - SWITCHES AND PUSHBUTTONS



MINIMAL SPACING (mm)	7.5	10	6
ACTION	Momentary	Momentary / Latching	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.	48 VDC	50 VDC, 60 VAC	12 VDC
IP RATING	IP 65	IP 40 / 65	IP 40
			
TYPE	SDK	HDT	LSG, LSH, LPH, LPS, LPV 1/4"
CONTACT	1	1 or 2 pole	1 pole
THROUGH HOLE MOUNTING	•	•	•
SURFACE MOUNTING			•
ILLUMINATION AVAILABLE		•	

MINIMAL SPACING (mm)	11.4	12.7	18
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.	42 VDC, 30 VAC	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
CONTACT	1 pole	1 pole	1 pole
THROUGH HOLE MOUNTING	•	•	•
SURFACE MOUNTING	•		
ILLUMINATION AVAILABLE			

SENSOR LINE - CAPACITIVE ACTUATORS

MINIMAL SPACING (mm)	Ø16	Ø16	15x15	25x25
ACTION	Sensor switch Compensation for whirlpool	Momentary switch Latching switch Pulse mode	Momentary switch Latching switch	Momentary switch Latching switch
FUNCTION	NPN, n-switching	NPN, p-switching	Active high, NPN	Active high, NPN
	NEW 			
TYPE	CLS16 Liquid level control	CSE16	CSE15 uG	CSE25 uG
SENSITIVITY			Min.-standard-max.	Min.-standard-max.
CONNECTION	Cable 2m 3 x 0.14mm	4-pol. flat cable tinned	Circuit board connector or lead on frames	4-pol. flat cable tinned
MOUNTING	Front panel	Front panel	Connection on board behind overlay or with front adhesive	Behind overlay with front adhesive
ILLUMINATION	None	Ring illumination	None	4 point
MATERIALS HOUSING	Aluminum varnished	Aluminum	PMMA	PMMA
ACCESSORY	Nut Sealing ring	Nut Sealing ring	Samtec pcb ASP-66875-01 Printed designfoil for use behind glass	AMP connector HE 14 281786-4 Printed designfoil for use behind glass

METAL LINE SWITCHES

	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)	Aluminum anodized/ stainless steel	Aluminum anodized	Aluminum anodized
SWITCHING CURRENT MAX.	100 mA	100 mA	40 mA	2.6 A
SWITCHING VOLTAGE MAX.	60 VDC	60 VDC	24 VDC	60 VDC
IP / 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 (Eex ib IIC4). 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.	60 VDC	60 VDC	60 VDC	50 VDC
IP / IK RATING	IP 69K / IK 02	IP 67 / IK 02	IP 69K / IK 02	IP 69K / IK 02
TEMPERATURE	-20°C to +60°C	-20°C to +60°C	-40°C to +85°C	-40°C to +85°C
				
TYPE	PSE M16 Faston	PSE M16 with Tactile feedback	M19	M19 ET Extreme temperature range
TERMINALS				
FASTON	°		*	°
PINS			°	
WIRE LEADS		° 200 mm		*
**CLIP FOR PINS			**	
	All switches are supplied with nut and o-ring seal			
	Part number			
COLOR				
ALUMINUM NATURAL	1241.3003	1241.5200.8.093	1241.3123	1241.5003
GOLD				
RED	1241.3000.xxx			
BLUE				
GREEN	1241.3001.xxx			
BLACK	1241.3002.xxx			
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	Ø27mm	Ø27mm
SWITCHING FUNCTION	N.O. with prolonged signal	N.O.	N.O.	N.O.
HOUSING MATERIAL	Aluminum anodized	Aluminum anodized/ Stainless steel	Aluminum anodized	Stainless steel
SWITCHING CURRENT MAX.	150 mA	100 mA	100 mA	100 mA
SWITCHING VOLTAGE MAX.	50 VDC	60 VDC	60 VDC	60 VDC
IP / IK RATING	IP 69K / IK 02	IP 69K / IK 02	IP 69K / IK 02	P 69K / IK 06
TEMPERATURE	-20°C to +60°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
				
TYPE	PSE M22 Temperature compensation	PSE M22	PSE M27 Metallic switch	PSE HIGH IMPACT M27 Pedestrian push button
TERMINALS				
FASTON				
PINS		°		
WIRE LEADS	° 200 mm		° 100 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	1241.2625.8	
GOLD			1241.2625.1.xxx	
RED		1241.3005.xxx	1241.2625.3.xxx	
BLUE			1241.2625.4.xxx	
GREEN		1241.3006.xxx	1241.2625.5.xxx	
BLACK		1241.3007.xxx	1241.2625.7.xxx	
STAINLESS STEEL		*		1241.3994.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	Ø16mm	Ø22mm	Ø22mm	Ø24mm
SWITCHING FUNCTION	N.O.		N.O.	N.O.
HOUSING MATERIAL	Aluminum anodized/ Stainless steel	Aluminum anodized/ Stainless steel	Aluminum anodized	Aluminum anodized/ Stainless steel
SWITCHING CURRENT MAX.		100 mA	100 mA	100 mA
SWITCHING VOLTAGE MAX.		60 VDC	60 VDC	60 VDC
IP / IK RATING	IP 67 / IK 02	IP 69K / IK 02	IP 69K / IK 02	IP 69K / IK 02
TEMPERATURE	-20°C to +60°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
				
TYPE	Indicator	PSE M22	PSE M22R	PSE M24
TERMINALS				
FASTON	°	°		
PINS				
WIRE LEADS		x (200 mm)	*	x (200 mm)
ILLUMINATION	point ill. 2 VDC	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				
ALUMINUM NATURAL	1241.3033 LED red	1241.3020 LED red	1241.3259 LED red	*LED red
ALUMINUM NATURAL	1241.3034 LED green	1241.3089 LED green	1241.3260 LED green	*LED green
ALUMINUM NATURAL	1241.3035 LED yellow	1241.3047 LED yellow	1241.3261 LED red/ green	1241.3010 LED red/ green
ALUMINUM NATURAL		NEW 1241.3244 LED blue		
RED	1241.3036 LED red	1241.3066 LED red		
GREEN	1241.3037 LED green	1241.3167 LED green		
GOLD	1241.3038 LED yellow	1241.3222 LED yellow		
STAINLESS STEEL				*

° Standard version

* Various designs

METAL LINE SWITCHES

	Illuminated Piezo switches	
MOUNTING DIAMETER	Ø27mm	Ø30mm
SWITCHING FUNCTION	N.O.	N.O.
HOUSING MATERIAL	Aluminum anodized/ Stainless steel	Aluminum anodized/ Stainless steel
SWITCHING CURRENT MAX.	100 mA	100 mA
SWITCHING VOLTAGE MAX.	60 VDC	60 VDC
IP / IK RATING	IP 69K / IK 02	IP 69K / IK 02
TEMPERATURE	-40°C to +85°C	-40°C to +85°C
		
TYPE	PSE M27	PSE M30
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		
ALUMINUM NATURAL	*LED red	*LED red
ALUMINUM NATURAL	*LED green	*LED green
ALUMINUM NATURAL	1241.3011 LED red/green	1241.3012 LED red/green
ALUMINUM NATURAL		NEW 1241.3189 *LED blue
STAINLESS STEEL	*	*

* Various designs

METAL LINE SWITCHES






Vandal-proof mechanical switches								
MOUNTING DIAMETER	Ø16mm		Ø18mm		Ø19mm		Ø19mm	
SWITCHING FUNCTION	N.O.		N.O.		N.O.		N.O.	
HOUSING MATERIAL	Stainless steel		Stainless steel		Stainless steel		Stainless steel	
SWITCHING CURRENT MAX.	5 / 3 A		50 mA		5 / 3 A		5 / 3 A	
SWITCHING VOLTAGE MAX.	125 / 250 VAC		24 VDC		125 / 250 VAC		125 / 250 VAC	
IP RATING	IP 67		IP 40		IP 67		IP 67	
IK RATING	IK 06		IK 07		IK 07		IK 07	
	NEW 		NEW 		NEW 		NEW 	
TYPE	MSM 16 ST		MSM 19 LA		MSM 19 ST		MSM 19 PI	
APPROVALS								
FEATURES	Latching action							
	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		1241.6821.1120000		1241.6621.1120000		o	
PINS								
PINS W. SOLDERING AID								
WIRE LEADS								
**CLIP FOR PINS								
SOLDER TERMINALS								
ILLUMINATION								
RED			1241.6824.1121000				1241.6623.1121000	
GREEN			1241.6824.1122000				1241.6623.1122000	
YELLOW								
RED/GREEN								
BLUE			1241.6824.1124000		NEW		1241.6623.1124000	

° Standard Version

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

xxx Specification for lettering

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/ Stainless steel		Stainless steel	
SWITCHING CURRENT MAX.	5 / 3 A		125 mA		125 mA		125 mA	
SWITCHING VOLTAGE MAX.	125 / 250 VAC		48 VDC		48 VDC		48 VDC	
IP RATING	IP 67		IP 65		IP 65		IP 65	
IK RATING	IK 07		IK 05		IK 05		IK 05	
	NEW 							
TYPE	MSM 19 RI Stainless steel		MCS19 Zinc diecasting		MCS19 Zinc diecasting/ Stainless steel		MCS19 Stainless steel	
APPROVALS								
FEATURES								
	Housing	Actuator	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								
FASTON	o							
PINS			1241.2800.xxx		1241.2805.xxx		1241.2820.xxx	
PINS W. SOLDERING AID			1241.2801.xxx		1241.2806.xxx		1241.2821.xxx	
WIRE LEADS			*		*		*	
**CLIP FOR PINS			1241.2802.xxx		1241.2807.xxx		1241.2822.xxx	
SOLDER TERMINALS								
ILLUMINATION								
RED	1241.6642.1121000							
GREEN	1241.6624.1122000							
YELLOW								
RED/GREEN								
BLUE	NEW 1241.6624.1124000							

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	
SWITCHING FUNCTION	N.O.		N.O.		N.O.	
HOUSING MATERIAL	Zinc diecasting/ Stainless steel		Zinc diecasting/ Stainless steel		Zinc diecasting/ Stainless steel	
SWITCHING CURRENT MAX.	125 mA		125 mA		125 mA	
SWITCHING VOLTAGE MAX.	48 VDC		48 VDC		48 VDC	
IP RATING	IP 65		IP 65		IP 65	
IK RATING	IK 05		IK 05		IK 05	
						
TYPE	MCS19 Actuator varnished		MCS19 Housing varnished		MCS19 Illuminated	
FEATURES						
	Housing	Actuator	Housing	Actuator	Housing	Actuator
ZINC DIECASTING	o	*			o	
STAINLESS STEEL	*	o		o		o
ALUMINUM						
	All switches are supplied with nut and o-ring seal					
	Part number					
TERMINALS						
PINS	1241.2877.3.xxx		1241.2873.3.xxx			
PINS W. SOLDERING AID	1241.2878.3.xxx		1241.2874.3.xxx		o	
WIRE LEADS	*		*		*	
**CLIP FOR PINS	1241.2879.3.xxx		1241.2875.3.xxx		*	
SOLDER TERMINALS						
ILLUMINATION						
RED	*		*		1241.2855.xxx	
GREEN	*		*		1241.2856.xxx	
YELLOW	*		*		1241.2857.xxx	
RED/GREEN	*		*		1241.2858.xxx	
BLUE					NEW 1241.2859	

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							
DIAMETER	Ø22mm		Ø22mm		Ø22mm		Ø22mm	
FUNCTION	N.O.		N.O.		N.O.		N.O.	
HOUSING MATERIAL	Stainless steel		Stainless steel		Stainless steel		Stainless steel	
CURRENT MAX.	5 / 3 A		5 / 3 A		5 / 3 A		5 / 3 A	
VOLTAGE MAX.	125 / 250 VAC		125 / 250 VAC		125 / 250 VAC		125 / 250 VAC	
IP RATING	IP 67		IP 67		IP 67		IP 67	
IK RATING	IK 07		IK 07		IK 07		IK 07	
	<i>NEW</i> 				<i>NEW</i> 			
TYPE	MSM 22 LA		MSM 22 ST & PI		MSM 22 SI		MSM 22 RI	
APPROVALS								
FEATURES	Latching action							
	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	1241.6831.1120000		1241.6631.1120000		1241.6695.1120000 1241.6699.1120000		o	
PINS								
PINS W. SOLDERING AID								
WIRE LEADS								
CLIP FOR PINS								
SOLDER TERMINALS								
ILLUMINATION								
RED	1241.6834.1121000		1241.6633.1121000		1241.6693.1121000 1241.6697.1121000		1241.6634.1121000	
GREEN	1241.6834.1122000		1241.6633.1122000		1241.6693.1122000 1241.6697.1122000		1241.6634.1122000	
YELLOW								
RED/GREEN								
BLUE	<i>NEW</i> 1241.6834.1124000		1241.6633.1124000				1241.6634.1124000	

o Standard Version

** Clip for terminal pins must be ordered separately, item 0701.9233

METAL LINE SWITCHES

	Vandal-proof mechanical switches					
MOUNTING DIAMETER	Ø30mm		Ø30mm		Ø30mm	
SWITCHING FUNCTION	N.O. / N.C.		N.O.		N.O.	
HOUSING MATERIAL	Stainless steel		Aluminum anodized		Stainless steel	
SWITCHING CURRENT MAX.	10 A		125 mA		50 mA	
SWITCHING VOLTAGE MAX.	250 VAC		48 VDC		50 VDC	
IP RATING	IP 67		IP 65		IP 65	
IK RATING	IK 07		IK 05		IK 07	
						
TYPE	MSM30		MCS30		SSM30	
APPROVALS						
FEATURES						
	Housing	Actuator	Housing	Actuator	Housing	Actuator
ZINC DIECASTING				o		
STAINLESS STEEL	o	o		*	o	o
ALUMINUM			o			
	All switches are supplied with nut and o-ring seal					
TERMINALS						
FASTON	o					
PINS						
PINS W. SOLDERING AID						
WIRE LEADS			o		1245.3122.221	
SOLDER TERMINALS						
ILLUMINATION						
RED	o		1241.6400			
GREEN	o		1241.6401			
YELLOW			1241.6402			
RED/GREEN			1241.6403			
BLUE			NEW 1241.6404			

* Various designs

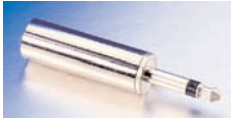



o Standard Version



Other Products







DATA & SIGNAL CONNECTORS

SIZE / POLES	2.5 mm/2 pole			3.5 mm/2 pole
STYLE	Shielded plug	Insulated plug	Shielded socket solder tabs	Shielded plug
				
ORDER NO.	4801.1200	4801.1210	4801.2200	4802.1200

SIZE / POLES	3.5 mm / 2 pole			
STYLE	Insulated plug	Shielded plug screw locking	Shielded socket solder tabs	Insulated socket solder tabs
				
ORDER NO.	4802.1210	4802.1230	4802.2200	4802.2210

SIZE / POLES	3.5 mm / 2 pole		3.5 mm / 3 pole	
STYLE	Shielded socket PCB tabs	Insulated socket PCB tabs	Shielded plug	Insulated plug
				
ORDER NO.	4802.2220	4802.2230	4802.1300	4802.1310

SIZE / POLE	3.5 mm / 3pol			
STYLE	Shielded socket solder tabs	Insulated socket solder tabs	Shielded socket PCB tabs	Insulated socket PCB tabs
				
ORDER NO.	4802.2300	4802.2310	4802.2320	4802.2330

DATA & SIGNAL CONNECTORS




SIZE / POLES	6.3 mm / 2 pole			
STYLE	Shielded plug	Insulated plug	Plug angled insulated	Shielded socket solder tabs
				
ORDER NO.	4803.1200	4803.1210	4803.1220	4803.2200



SIZE / POLES	6.3 mm / 2 pole			
STYLE	Insulated socket solder tabs	Shielded socket PCB tabs	Insulated socket PCB tabs	Line socket shielded
				
ORDER NO.	4803.2210	4803.2220	4803.2230	4803.3200

SIZE / POLES	6.3 mm / 3 pole			
STYLE	Shielded plug	Insulated plug	Plug angled insulated	Shielded socket solder tabs
				
ORDER NO.	4803.1300	4803.1310	4803.1320	4803.2300





SIZE / POLES	6.3 mm / 3pole			
STYLE	Insulated socket solder tabs	Shielded socket PCB tabs	Insulated socket PCB tabs	Line socket shielded
				
ORDER NO.	4803.2310	4803.2320	4803.2330	4803.3300









DATA & SIGNAL CONNECTORS







SIZE / POLES	7.5 mm / 4 pole		
STYLE	Insulated plug	Shielded socket solder tabs	Insulated socket solder tabs
			
ORDER NO.	4804.1400/ 4804.1401	4804.2400	4804.2410

SIZE / POLES	7.5 mm / 6 pole		
STYLE	Insulated plug	Insulated socket solder tabs	
			
ORDER NO.	4804.1600	4804.2610	

2 MM (0.080") TEST JACKS AND PROBES





MOUNTING	Panel, M5	PCB
RATED CURRENT	6.3A	10A
		
TYPE	PBF	PB
SCHEMATIC		





MOUNTING	PCB		PCB	
RATED CURRENT	6.3A		6.3A	
				
TYPE	PBD		PB	
SCHEMATIC				



MOUNTING	PCB	Probe		
RATED CURRENT	6.3A	6.3A		
				
TYPE	PB	PS		
SCHEMATIC				

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	•	•	•	•
8 A / 250 V				
10 A / 250 V			•	•
TERMINALS	solder		solder & quick connect	
COMMENT				

	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	solder	solder	
COMMENT	for 5x20mm fuse			





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

INDICATOR LIGHTS

	PCB mounting			
LED	3 mm	5 mm	for 3 mm	for 5 mm
BODY	thermoplastic	thermoplastic	thermoplastic	thermoplastic
				
TYPE	ASL	ASL	AST	AST
COMMENT			socket only	socket only

	PCB mounting			
LED	3 mm	for 3 & 5 mm		
BODY	thermoplastic	thermoplastic		
				
TYPE	PBL	SRL		
COMMENT				

INDICATOR LIGHTS

	Panel mounting - Solder terminals			
LED	3 mm	5 mm	3 mm	
BODY	metallic	metallic	thermoplastic	metallic
				
TYPE	LFM	LFM	LML	BF
BUILT-IN RESISTOR	•	•		
INCANDESCENT / NEON LAMP				incandescent only
LENS				
REFLECTOR	•	•		
COMMENT			or PCB mounting	or PCB mounting

TERMS AND CONDITIONS OF SALES

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

2. Prices: All prices quoted by the seller are net. List prices are subject to change without notice. Prices stated on this form are contingent upon acceptance of delivery by the buyer of all goods subject to this order within six (6) months and can be increased or decreased at the seller's option upon ninety (90) days' written notice by the seller. Subject to section 1, the seller's payment terms are one percent (1%) ten (10) days, net thirty (30) days, from the date of invoice. Pursuant to California law, a charge of one and one-half percent (1-1/2%) per month is made on the past due balance of any account in order to reimburse the seller for estimated administrative and other costs associated with delinquent accounts. The buyer agrees that such a charge is reasonable in the light of the anticipated or actual harm caused by reason of the Buyer's delinquency, the difficulties of proof of loss, and the inconvenience or non-feasibility of the seller otherwise obtaining a remedy. The buyer further agrees that such a charge is not an agreement, express or implied, to give further time for payment.

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

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

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

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

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

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

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

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

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

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

12. Governing Law: California law governs this transaction.

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

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

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QC L5T 2E7 Pointe Claire
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ON M3J 3J2 Downsview
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QC H9R 5L8 Pointe Claire
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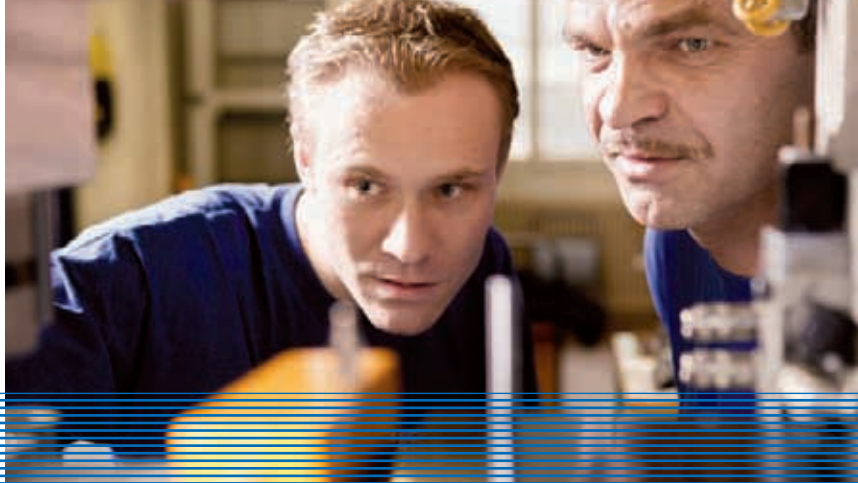


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