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Standard- or Medical-Filter

**Description**

- Panel mount:  
Screw-on version from front side
- 4 Functions:  
Connector Protection class I, Fuseholder for fuse-links 5 x 20 mm 1-pole [FKHD]; 2-pole [FKID], Line switch 2-pole, Line-filter in standard version [FKHD]; Line filter in standard and medical version [FKID] 2-stage
- [FKID] Quick connect terminals 6.3 x 0.8 mm Alternative: Fuseholder 2-pole [FKID]

**Characteristics**

- Compact design with optimal shielding
- All single elements are already wired
- The fuseholder is accessible from the equipment front [FKHD]
- Plug removal necessary for fuse-link replacement [FKID]  
Fuse drawer meets requirements of medical standard IEC/EN 60601-1 [FKID]  
The fuseholder is accessible from the equipment front [FKID]
- 2-stage line filter with increased attenuation [FKID]  
With EMC-shield [FKID]
- Qualified for use in equipment according IEC/EN 60950

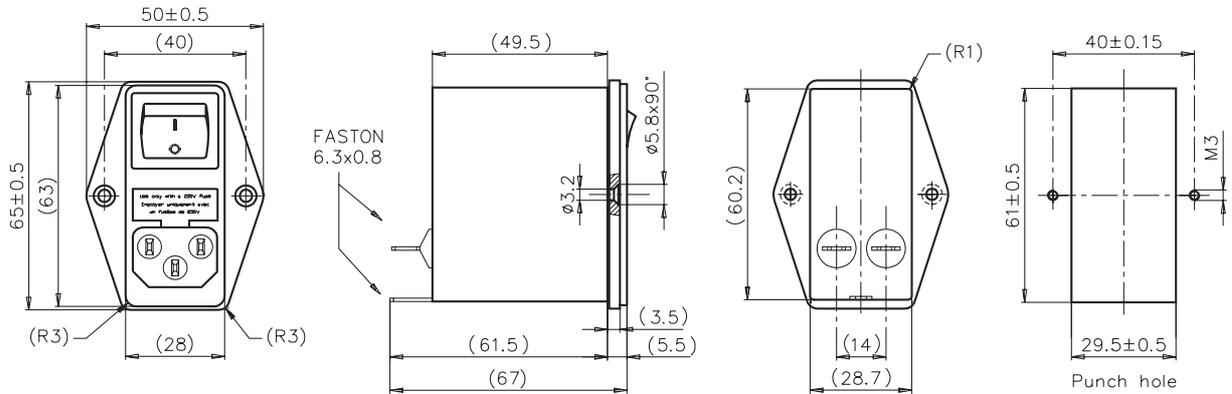
**Technical data**

Ratings IEC	1 - 10 A @ Ta 40 °C / 250 VAC; 50 Hz
Ratings UL/CSA	1 - 10 A @ Ta 40 °C / 125 VAC; 60 Hz
Leakage current [FKHD]	standard < 0.25 mA (250 V / 60 Hz)
Leakage current [FKID]	standard < 0.25 mA (250 V / 60 Hz) medical < 5 µA (250 V / 60 Hz)
Dielectric strength	> 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec)
Allowable operation temp.	-25 °C to 85 °C
Climatic category	25/085/21, IEC 60068-1
Degree of protection	from front side IP40 acc. to IEC 60529
Protection class	Suitable for appliances with protection class I acc. to IEC 61140
Terminals	Quick connect terminals 6.3 x 0.8 mm
Panel thickness s [FKHD]	Screw-on max 8 mm Mounting screw torque max 0.5 Nm
Panel thickness s [FKID]	Screw-on: max 8 mm Mounting screw torque max 0.5 Nm
Materials: Housing	Thermoplastic, black, UL 94V-0

Appliance-inlet /-outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold condition) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder [FKHD]	1-pole, Shocksavve category PC2 acc. to IEC/EN 60127-6, for fuse-links 5 x 20 mm
Fuseholder [FKID]	2-pole, Shocksavve category PC2 acc. to IEC/EN 60127-6, for fuse-links 5 x 20 mm
Power acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves. Take note of the information on page 285
Line switch	Rocker switch 2-pole, non-illuminated, acc. to IEC 61058-1 Technical details see page 288
Line filter [FKHD]	Standard Version, IEC 60939, IEC 60601-1, UL 1283, UL 544, EN 133 200, CSA C22.2 no. 8 Technical details see page 290
Line filter [FKID]	Standard and medical version, IEC 60939, IEC 60601-1, UL 1283, UL 544, EN 133 200, CSA C22.2 no. 8 Technical details see page 290

Dimensions

Case 45

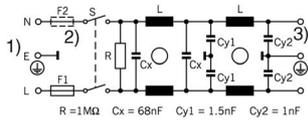


Technical data of filter-components

Rated current [A]	Filter-Type	Inductances		Capacitance	Capacity Cy1	Capacity Cy2	R [MΩ]
		L [mH]	CX [nF]	CX [nF]	[nF]	[nF]	
1	Standard Version	2 x 10	68	1.5	1	1	
2	Standard Version	2 x 4	68	1.5	1	1	
4	Standard Version	2 x 1.5	68	1.5	1	1	
6	Standard Version	2 x 0.8	68	1.5	1	1	
10	Standard Version	2 x 0.3	68	1.5	1	1	
2	Medical Version (M5)	2 x 4	68	1.5	1	1	

Diagrams

Standard Version



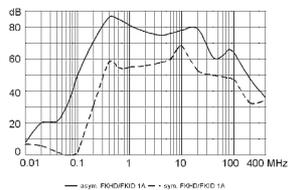
- 1) Line
- 2) only FKID
- 3) Load

Attenuation loss

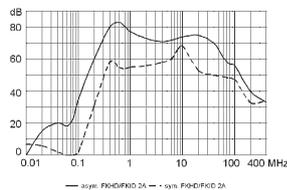
Standard version

--- differential mode    — common mode

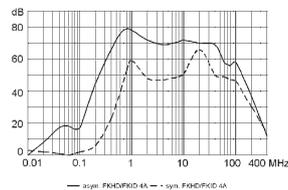
1 A



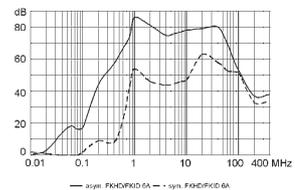
2 A



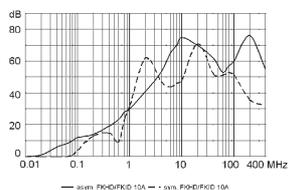
4 A



6 A

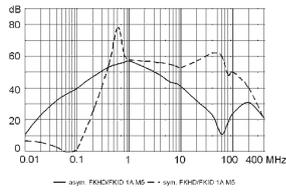


10 A

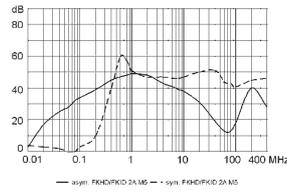


Medical version

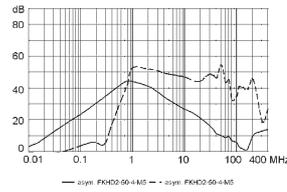
1 A



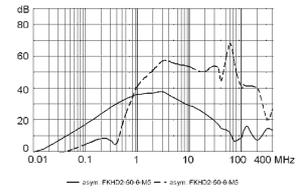
2 A



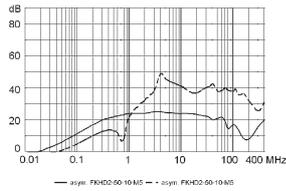
4 A



6 A



10 A



Variants

Order Number	Type	Rated current [A]	Filter-Type	Fuseholder	Line switch	Case	Materials: Housing
4304.5042	FKHD	2	Standard Version	1-pole	2-pole	45	Aluminum
4304.5043	FKHD	4	Standard Version	1-pole	2-pole	45	Aluminum
4304.5044	FKHD	6	Standard Version	1-pole	2-pole	45	Aluminum
4304.5045	FKHD	10	Standard Version	1-pole	2-pole	45	Aluminum
4304.5001	FKHD	1	Standard Version	1-pole	2-pole	45	Nickel plated steel
4304.5002	FKHD	2	Standard Version	1-pole	2-pole	45	Nickel plated steel
4304.5003	FKHD	4	Standard Version	1-pole	2-pole	45	Nickel plated steel
4304.5004	FKHD	6	Standard Version	1-pole	2-pole	45	Nickel plated steel
4304.5005	FKHD	10	Standard Version	1-pole	2-pole	45	Nickel plated steel
4304.5061	FKID	1	Standard Version	2-pole	2-pole	45	Aluminum
4304.5062	FKID	2	Standard Version	2-pole	2-pole	45	Aluminum
4304.5063	FKID	4	Standard Version	2-pole	2-pole	45	Aluminum
4304.5064	FKID	6	Standard Version	2-pole	2-pole	45	Aluminum
4304.5065	FKID	10	Standard Version	2-pole	2-pole	45	Aluminum
4304.5021	FKID	1	Standard Version	2-pole	2-pole	45	Nickel plated steel
4304.5022	FKID	2	Standard Version	2-pole	2-pole	45	Nickel plated steel
4304.5023	FKID	4	Standard Version	2-pole	2-pole	45	Nickel plated steel
4304.5024	FKID	6	Standard Version	2-pole	2-pole	45	Nickel plated steel
4304.5025	FKID	10	Standard Version	2-pole	2-pole	45	Nickel plated steel
4304.5067	FKID	2	Medical Version (M5)	2-pole	2-pole	45	Aluminum

Packaging unit

10 Pcs