

IEC Appliance Inlet C14 Modular Assembling Options

Standard- or Medical-Filter



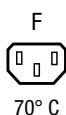
Snap-In Version



5411.XX5X.XXX
Appliance inlet
Fuseholder
Line filter



5431.X05X.XXX
Appliance inlet
Appliance outlet
Switch
Line filter



Description

- Panel Mount:
Snap-in version from front side
- 2 - 5 Functions:
Appliance Inlet Protection class I, Connector, Line Switch 2-pole, Fuseholder for fuse-links 5 x 20 mm 1- or 2-pole, Line filter in standard and medical version
- Solder terminals 3.5 x 0.8 mm or quick connect terminals 6.3 x 0.8 mm

Approvals

- VDE Certificate Number: 101307
- UL File Number: E72928

Characteristics

- Modular component selection
- Individual components soldered on a printed circuit board
- Plug removal necessary for fuse-link replacement
Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuseholder is accessible from the equipment front
- Technical data of filter-components see blockfilter type 5500
- Fully insulated from the rear
- Suitable for use in equipment according to IEC/UL 60950
- Suitable for use in medical equipment according to IEC/UL 60601-1

Other versions on request

- Line switch with other rocker marking

References

Alternative: version without line filter [Felcom 64](#)
Alternative: Standard version

Weblinks

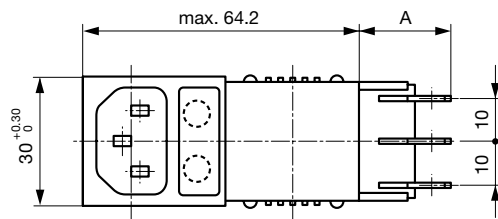
[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [Mating Connectors](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [CAD-Drawings](#), [Accessories](#), [Detailed request for product](#)

Technical Data

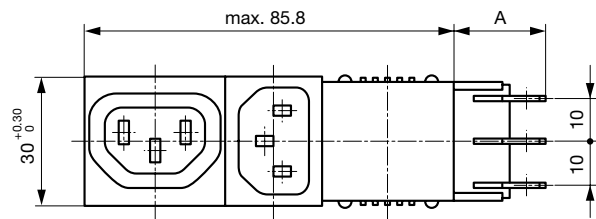
Ratings IEC	1 - 10A @ Ta 40 °C / 250 VAC; 50 Hz
Ratings UL/CSA	1 - 10A @ Ta 40 °C / 250 VAC; 60 Hz
Leakage Current	standard < 0.5 mA (250 V / 60 Hz) medical < 5 µA (250 V / 60 Hz)
Dielectric Strength	> 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec)
Allowable Operation Temp.	-25 °C to 85 °C
Climatic Category	25/085/21 acc. to IEC 60068-1
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Solder terminals 3.5 x 0.8 mm or quick connect terminals 6.3 x 0.8 mm
Panel Thickness s	Snap-in: 1/1.2/1.5/2/2.5/3 mm 1/1.2/1.5/2/2.5/3 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC 60320, F acc. to IEC 60320, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection Class I
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2 W (1 pole)/ 1.6 W (2-pole) per pole
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves
Line Switch	Rocker switch 2-pole, non-illuminated, acc. to IEC 61058-1 Technical Details
Line Filter	Standard Version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details
MTBF	> 1'400'000 h acc. to MIL-HB-217 F

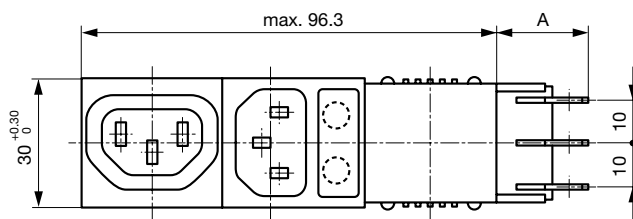
Dimension



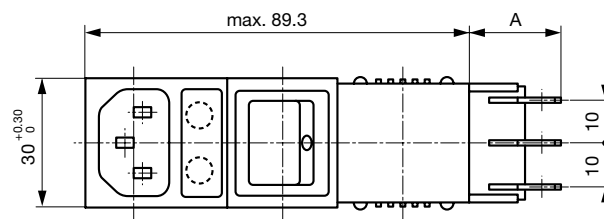
Variants 5411.XX5X.XXX
Mounting Ø: 63+0,2 x 27.6+0,2



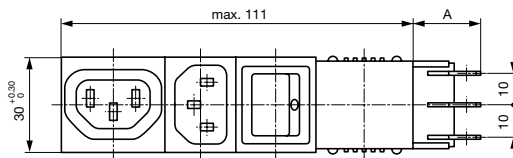
Variants 5421.X05X.XXX
Mounting Ø: 85.9+0,2 x 27.6+0,2



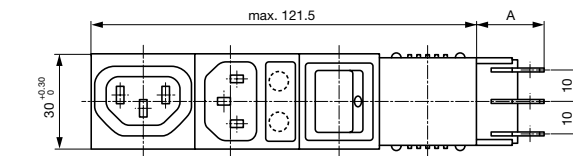
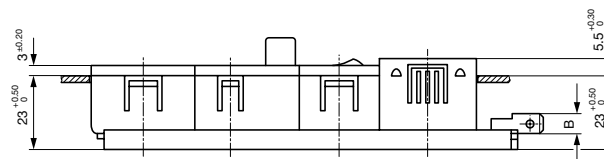
Variants 5423.XX5X.XXX
Mounting Ø: 96.4+0,2 x 27.6+0,2



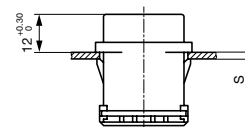
Variants 5424.XX5X.XXX
Mounting Ø: 87.9+0,2 x 27.6+0,2



Variants 5431.X05X.XXX
Mounting Ø: 111.1+0,2 x 27.6+0,2



Variants 5432.XX5X.XXX
Mounting Ø: 121.6+0,2 x 27.6+0,2

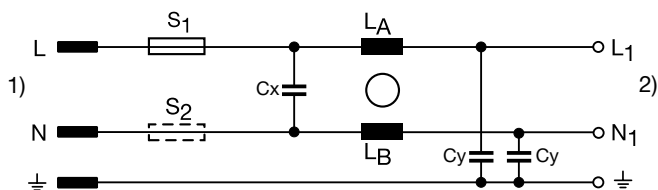


Technical Data of Filter-Components

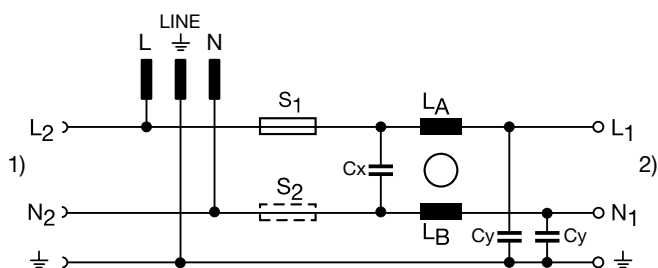
Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
1	Standard Version	2 x 11	47	2.2	-
2	Standard Version	2 x 4	47	2.2	-
4	Standard Version	2 x 1.6	47	2.2	-
6	Standard Version	2 x 0.7	47	2.2	-
8	Standard Version	2 x 0.6	47	2.2	-
10	Standard Version	2 x 0.4	47	2.2	-
1	Medical Version (M5)	2 x 11	47	-	1
2	Medical Version (M5)	2 x 4	47	-	1
4	Medical Version (M5)	2 x 1.6	47	-	1
6	Medical Version (M5)	2 x 0.7	47	-	1
8	Medical Version (M5)	2 x 0.6	47	-	1
10	Medical Version (M5)	2 x 0.4	47	-	1

Diagrams

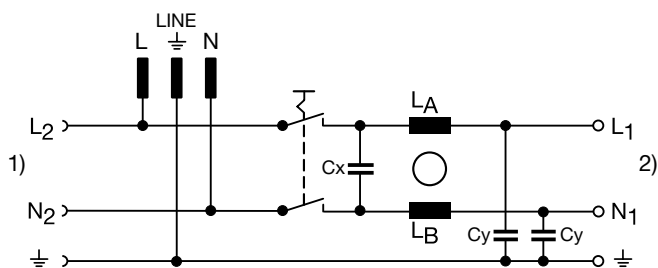
5411



1) Line
2) Load 1
5423

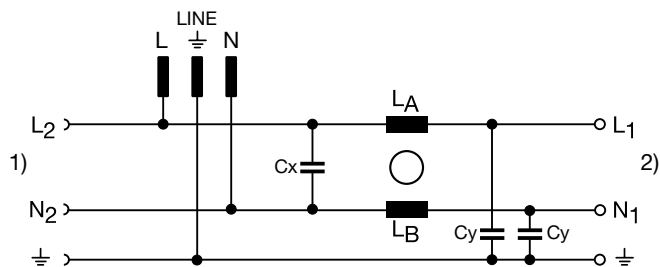


1) Load 2
2) Load 1
5431

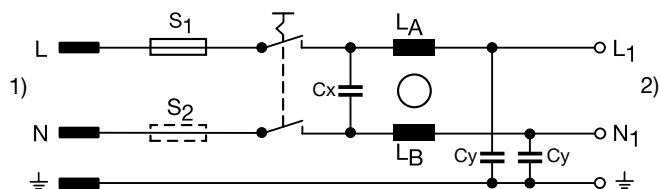


1) Load 2
2) Load 1

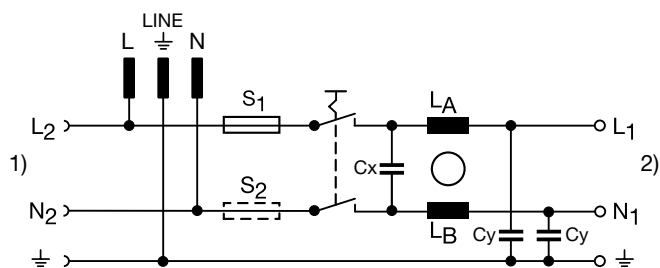
5421



1) Load 2
2) Load 1
5424



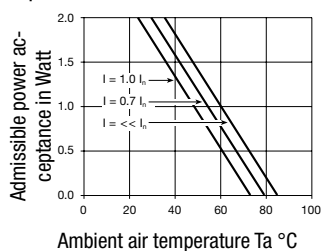
1) Line
2) Load 1
5432



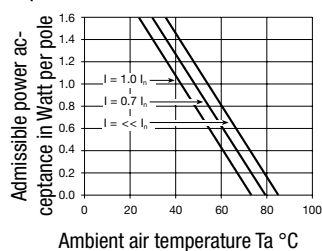
1) Load 2
2) Load 1

Derating Curves

1-pole



2-pole



Ordering instructions

54	XX	X	X	XX	XX	X
						T
						Type of line filter
						1 = standard
						3 = medical
						"Snap-in" panel thickness
						10 = 1,0 mm
						12 = 1,2 mm
						15 = 1,5 mm
						20 = 2,0 mm
						25 = 2,5 mm
						30 = 3,0 mm
						Connection
						51 = solder terminals 3,5 x 0,8 mm
						53 = quick connect terminals 6,3 x 0,8 mm
						Fuseholder 5 x 20 mm
						0 = without fuseholder
						1 = 1-pole
						2 = 2-pole
						Line filter
						1 = 1 Amp.
						2 = 2 Amp.
						4 = 4 Amp.
						6 = 6 Amp.
						8 = 8 Amp.
						9 = 10 Amp.
						Module combination
						11 = Appliance inlet, fuseholder
						21 = Appliance inlet, appliance outlet
						23 = Appliance inlet, fuseholder, appliance outlet
						24 = Appliance inlet, fuseholder, switch
						31 = Appliance inlet, appliance outlet, switch
						32 = Appliance inlet, fuseholder, appliance outlet, switch
						Base model

Packaging unit 10 Pcs

Accessories

Description



Cord retaining kits
Cord retaining strain relief

Mating Inlets/Plugs

Category / Description

Plug Overview complete



IEC Plug E, Cord Connector (Rewireable), Straight, max. cable Diameter 8.5 mm	4732
IEC Plug E, Cord Connector (Rewireable), Angled, max. Cable Diameter 8.5 mm	4733
IEC Plug E, Cord Connector (Rewireable), Straight, max. Cable Diameter 10 mm	4735
IEC Plug E, Cord Connector (Rewireable), Angled, max. Cable Diameter 10 mm	4736
IEC Plug E, Cord Connector (Rewireable), Straight	9009

Plug further types to Felcom 54

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Mating Outlets/Connectors

Appliance Outlet Overview complete



IEC Appliance Outlet F, Screw-on Mounting, Front Side, Solder Terminal	4787
IEC Appliance Outlet F, Snap-in Mounting, Front Side, Solder or Quick-connect Terminal	4788
IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder, PCB or Quick-connect Terminal	5091

Appliance Outlet further types to Felcom 54



[Connector Overview complete](#)

IEC Connector C15A, Rewireable, Straight	0102
IEC Connector C15A, Rewireable, Straight	0102-G
IEC Connector C15A, Rewireable, Angled	0112
IEC Connector C13, Rewireable, Angled	4012
IEC Connector C13, Rewireable, Straight	4022

[Connector further types to Felcom 54](#)

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