IEC Appliance Inlet C14 with Filter, Fuseholder 1- or 2-pole

Screw-on from front side
with 2-pole fuseholder

Snap-in mounting from front side
with 2-pole fuseholder

C14

70° C

See below:
Approvals and Compliances

Description
- Panel mount :
  Snap-in or screw-on mounting front side
- 3 Functions :
  Appliance Inlet Protection class I , Fuseholder for fuse-links 5 x 20 mm
  2-pole , Line filter in standard and medical version
- Quick connect terminals 6.3 x 0.8 mm

Unique Selling Proposition
- Ultra-compact design
- Recessed faston connectors
- High quality filter case made of stainless steel
- Highly resistant since potted filter

Characteristics
- All single elements are already wired
- Plug removal necessary for fuse-link replacement
- Suitable for use in medical equipment according to IEC/UL 60601-1
  For applications according IEC/UL 62368-1 we recommend variants
  with bleed resistor

References
Alternative: version without line filter   6220
Alternative: version with V-Lock   KFA

Weblinks
pdf data sheet, html datasheet, General Product Information, Approvals,
Distributor-Stock-Check, Accessories, Detailed request for product

Technical Data

Ratings IEC	1 - 10 A @ Ta 40 °C / 250 VAC; 50 Hz	Appliance inlet/-outlet	C14 acc. to IEC 60320-1, UL 60320-1, CSA C22.2 no. 60320-1 (for cold conditions) pin-temperature 70 °C, 10 A, Protection Class I
Ratings UL/CSA	1 - 10 A @ 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)	Fuseholder	2-pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Allowable Operation Temperature	-25 °C to 85 °C	Rated Power Acceptance @ Ta 23 °C	5 x 20: 1.6 W (2-pole)
Climatic Category	25/085/21 acc. to IEC 60068-1	Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves
IP-Protection	front side IP40 acc. to IEC 60529		
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140	Line Filter	Standard and Medical Version, IEC 60939-2, UL 60939-3, CSA C22.2 no. 8 Technical Details
Terminal	Quick connect terminals 6.3 x 0.8 mm		
Panel Thickness S	Screw: max 8 mm Mounting screw torque max 0.5 Nm Snap-in: 0.8 mm to 3 mm	MTBF	> 2'300'000 h acc. to MIL-HB-217 F
Material: Housing	Thermoplastic, black, UL 94V-0		

Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in Details about Approvals

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: 5220

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	Certificate Number: 101307
	UL Approvals	UL	UL File Number: E495089

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
IEC	Designed according to	IEC 60320-1	Appliance couplers for household and similar general purposes
IEC	Designed according to	IEC 60939-2	Passive filters for suppressing electromagnetic interference
IEC	Designed according to	IEC 60127-6	Miniature fuses. Part 6. Fuse-holders for miniature fuse-links
UL	Designed according to	UL 60320-1	Standard for Attachment Plugs and Receptacles
UL	Designed according to	UL 60939-3	Electromagnetic interference filters
CSA Group	Designed according to	CSA C22.2 no. 60320-1	General Use Receptacles, Attachment Plugs, and Similar Wiring Devices
CSA Group	Designed according to	CSA C22.2 no. 8	Electromagnetic interference (EMI) filters

Application standards
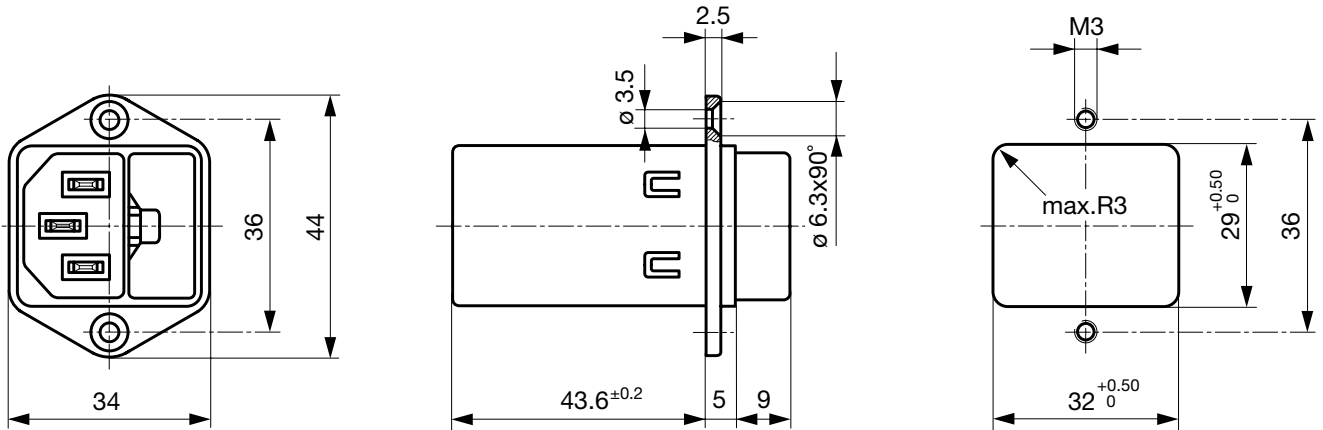
Application standards where the product can be used

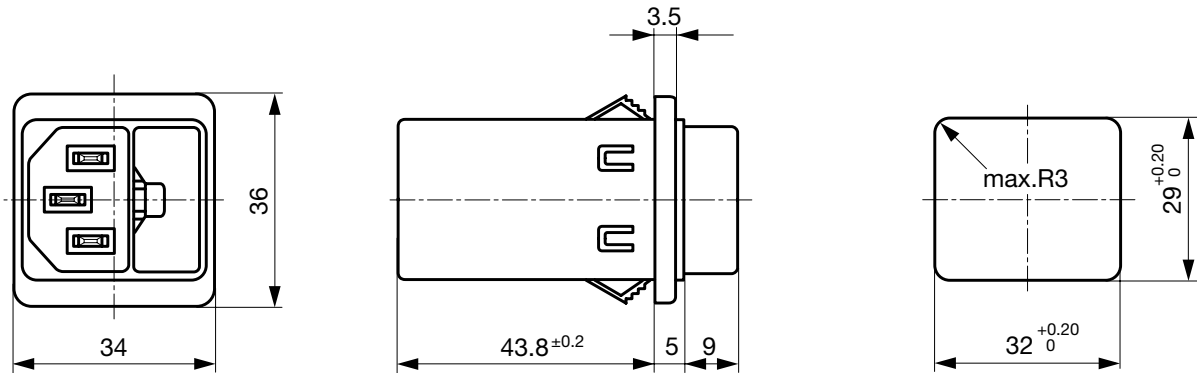| Organization	Design	Standard	Description
IEC	Designed for applications acc.	IEC/UL 62368-1	IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment.
IEC	Designed for applications acc.	IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance
IEC	Designed for applications acc.	IEC 60335-1	Safety of electrical appliances for household and similar purposes. Meets the requirements for appliances in unattended use. This includes the enhanced requirements of glow wire tests acc. to IEC 60695-2-11 or -12 & -13.

Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
RoHS COMPLIANT	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
(e)	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.
00	White Paper Glow wire test	SCHURTER AG	Meets the requirements of IEC 60335-1 for appliances in unattended use. This includes the enhanced requirements of glow wire tests acc. to IEC 60695-2-11 or -12 &-13.
	Medical Equipment	SCHURTER AG	Suitable for use in medical equipment according to IEC/UL 60601-1

Dimension [mm]

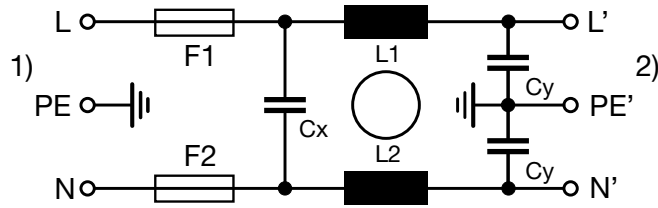Screw-on mounting type 5220

Snap-in mounting type 5220

Technical Data of Filter-Components

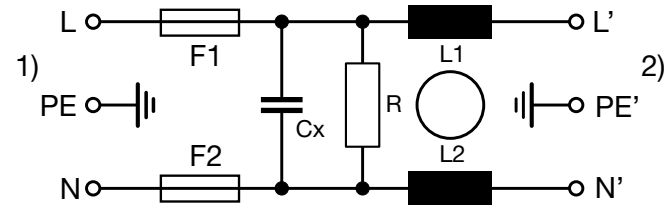| Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
1	Standard version	2 x 11	47	2.2	-
2	Standard version	2 x 4	47	2.2	-
4	Standard version	2 x 1.6	47	2.2	-
6	Standard version	2 x 0.7	47	2.2	-
8	Standard version	2 x 0.6	47	2.2	-
10	Standard version	2 x 0.4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

Diagrams

5220 Standard Version

1) Line
2) Load

5220 Medical Version (M5)

1) Line
2) Load

Derating Curves

2-pole

Attenuation Loss

- - - - 50Ω differential mode _____ 50Ω common mode

Standard version
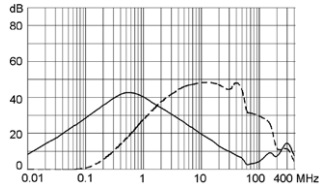
1 A

2 A

4 A

6 A

8 A

10 A

Medical version (M5)

1 A
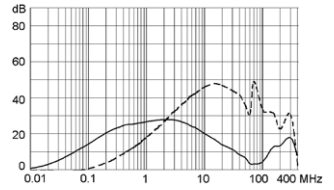

2 A
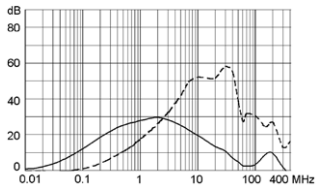

4 A
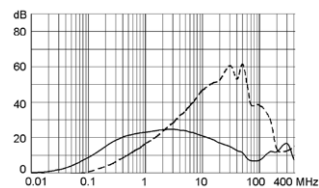

6 A

8 A

10 A

All Variants

Rated Current [A]	Filter-Type	Panel mounting	Fuseholder	Order Number	
1	Standard version	Snap-in	2-pole	5220.0143.1	▌
2	Standard version	Snap-in	2-pole	5220.0243.1	▌
4	Standard version	Snap-in	2-pole	5220.0443.1	
6	Standard version	Snap-in	2-pole	5220.0643.1	▌
8	Standard version	Snap-in	2-pole	5220.0843.1	
10	Standard version	Snap-in	2-pole	5220.1043.1	▌
1	Standard version	Screw	2-pole	5220.0123.1	
2	Standard version	Screw	2-pole	5220.0223.1	▌
4	Standard version	Screw	2-pole	5220.0423.1	▌
6	Standard version	Screw	2-pole	5220.0623.1	▌
8	Standard version	Screw	2-pole	5220.0823.1	
10	Standard version	Screw	2-pole	5220.1023.1	▌
1	Medical Version (M5)	Snap-in	2-pole	5220.0143.3	
2	Medical Version (M5)	Snap-in	2-pole	5220.0243.3	▌
4	Medical Version (M5)	Snap-in	2-pole	5220.0443.3	▌
6	Medical Version (M5)	Snap-in	2-pole	5220.0643.3	▌
8	Medical Version (M5)	Snap-in	2-pole	5220.0843.3	
10	Medical Version (M5)	Snap-in	2-pole	5220.1043.3	▌
1	Medical Version (M5)	Screw	2-pole	5220.0123.3	▌
2	Medical Version (M5)	Screw	2-pole	5220.0223.3	▌
4	Medical Version (M5)	Screw	2-pole	5220.0423.3	▌
6	Medical Version (M5)	Screw	2-pole	5220.0623.3	▌
8	Medical Version (M5)	Screw	2-pole	5220.0823.3	
10	Medical Version (M5)	Screw	2-pole	5220.1023.3	▌

▌ Most Popular.

Availability for all products can be searched real-time:https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER

Packaging unit   10 Pcs

Accessories

Description

Assorted Covers
Rear Cover

	0859.0047

RC320
Rear Cover for Power Entry Module

Cord retaining kits
Cord retaining strain relief

Countersunk, B	4700.0002

Mating Outlets/Connectors

Category / Description

Appliance Outlet Overview complete

4787, Mounting: Screw-on mounting, Appliance Outlet: IEC Solder terminals, 10 A, Suitable for appliances with protection class I	4787
4788, Mounting: Snap-in version, Appliance Outlet: IEC Solder / Quick Connect, 10 A, Suitable for appliances with protection class I	4788
IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder, PCB or Quick-connect Terminal	5091

Connector Overview complete

4782 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4782
4785 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4785
4300-06 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4300-06
4781 Mounting: Power Cord, Cable, Connector: IEC C15	4781
4784 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C15	4784
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