### IEC Appliance Inlet C14 with Filter





#### **Description**

- Panel mount :

Screw-on mounting front side

- 2 Functions:

Appliance Inlet Protection class I , Line-filter in standard version

- Quick connect terminals 6.3 x 0.8 mm

### See below:

### **Approvals and Compliances**

#### **Characteristics**

- Compact design with optimal shielding
- All single elements are already wired
- Universal line filter for standard applications
- For applications according IEC/UL 62368-1 we recommend variants with bleed resistor

#### References

We recommend for new applications the type 5120

#### Weblinks

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

Newly available variants corresponding to V-Lock mating cordset. The connector is equipped with a notch intended for use with the latching cordset. The cord latching system prevents against accidental removal of the cordset.

#### **Technical Data**

- 10 A @ Ta 40 °C / 250 VAC; 50 Hz
- 10 A @ Ta 40 °C / 250 VAC; 60 Hz
standard < 0.5 mA (250 V / 60 Hz)
> 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec)
> 2.5 kV between L-N (CX2) > 5 kV between L/N-PE
25 °C to 85 °C
25/085/21 acc. to IEC 60068-1
ront side IP40 acc. to IEC 60529
Suitable for appliances with protection class I acc. to IEC 61140
Quick connect terminals 6.3 x 0.8 mm
Screw: max 8 mm Mounting screw torque max 0.5 Nm
hermoplastic, black, UL 94V-0

Appliance inlet/-outlet	C14 acc. to IEC 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection Class I
Line Filter	Standard version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details
MTBF	> 3'100'000h acc. to MIL-HB-217 F

# **Approvals and Compliances**

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

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

### **Approvals**

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

Approval Logo	Certificates	Certification Body	Description
<b>I</b> 10	VDE Approvals	VDE	Certificate Number: 40004665 (FGS)
<b>. FU</b> ° 118	UL Approvals	UL	UR File Number: E72928 (FGS)

#### **Product standards**

Product standards that are referenced

Organization	Design	Standard	Description
<u>IEC</u>	Designed according to	IEC 60320-1	Appliance couplers for household and similar general purposes
<u>IEC</u>	Designed according to	IEC 60939	Passive filters for suppressing electromagnetic interference
<u>IEC</u>	Designed according to	IEC 61058-1	Switches for appliances. Part 1. General requirements
(UL)	Designed according to	UL 498	Standard for Attachment Plugs and Receptacles
(UL)	Designed according to	UL 1283	Passive filters for suppressing electromagnetic interference
GSA Group	Designed according to	CSA C22.2 no. 42	General Use Receptacles, Attachment Plugs, and Similar Wiring Devices
GF 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
<u>IEC</u>	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

### Compliances

The product complies with following Guide Lines

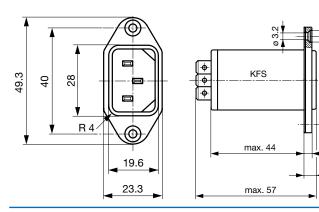
Identification	Details	Initiator	Description
C€	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UK CA	UKCA declaration of conformity	SCHURTER AG	The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
<b>©</b>	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.
<b>V</b> -Lock		SCHURTER AG	V-Lock system are based on a matching plug-dose combination. The connector is equipped with a notch intended for use with the latching cordset. The cord latching system prevents against accidental removal of the cordset.

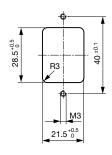
# Dimension [mm]

# Panel cut-out

3.8

5.8



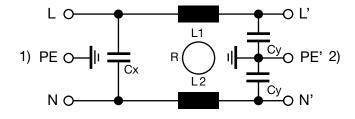


# **Technical Data of Filter-Components**

Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]
1	Medical Version (M80)	2 x 10	47	0.47
1	Medical Version (M5)	2 x 10	47	-
2	Medical Version (M5)	2 x 4	47	-
4	Medical Version (M5)	2 x 1.5	47	-
6	Medical Version (M5)	2 x 0.8	47	-
10	Medical Version (M5)	2 x 0.3	47	-
1	Standard version	2 x 10	47	2.2
2	Standard version	2 x 4	47	2.2
4	Standard version	2 x 1.5	47	2.2
6	Standard version	2 x 0.8	47	2.2
10	Standard version	2 x 0.3	47	2.2

# **Diagrams**

Standard version



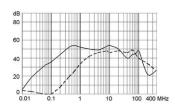
- 1) Line
- 2) Load

# **Attenuation Loss**

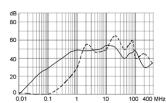
- - - -  $50\Omega$  differential mode \_\_\_\_\_  $50\Omega$  common mode

Standard version

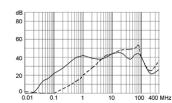




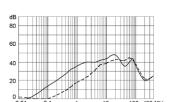
2 A



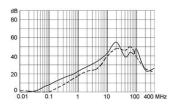
4 A



6 A



10 A



### **Variants**

Туре	Rated Current [A]	Filter-Type	CX Class	V-Lock	Order Number
KFS	1	Standard version	X2		4300.5051
KFS	2	Standard version	X2		4300.5052
KFS	4	Standard version	X2		4300.5053
KFS	6	Standard version	X2		4300.5054
KFS	10	Standard version	X2		4300.5055
KFS	1	Medical Version (M5)	X2		4300.5021
KFS	2	Medical Version (M5)	X2		4300.5022
KFS	4	Medical Version (M5)	X2		4300.5023
KFS	6	Medical Version (M5)	X2		4300.5024
KFS	10	Medical Version (M5)	X2		4300.5025
KFS	1	Medical Version (M80)	X2		4300.5031

Availability for all products can be searched real-time: https://www.schurter.com/en/info-center/support-tools/stock-check-distributors

Packaging unit

10 Pcs

### **Accessories**

#### Description



RC320 Rear Cover for Power Entry Module



Cord\_retaining\_kits
Cord retaining strain relief

Countersunk, C 4700.0003

# **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
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 mm $^2$ / 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 v 1 mm² / 3 v 18 AWG, Cable, Connector: IEC C15	4784

# Mating Outlets/Connectors shuttered



### Connector Overview complete

4783 Mounting: Power Cord, 3 x 1 mm $^2$  / 3 x 18 AWG, Cable, Connector: IEC C13 4783



Power Cord Overview complete

VAC13KS, Overview, V-Lock cord retaining, diverse Connector IEC C13, diverse, black

VAC13KS