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

Screw-on mounting
with fuseholder 1- or 2-pole
Sandwich/rear-side

Snap-in version
with fuseholder 1- or 2-pole
Sandwich/rear-side

Pick and Place Version
IEC connector C14 with fuse holder 1- or 2-pole
Sandwich/rear-side

C14

70° C

See below:
Approvals and Compliances

Description
- Panel mount :
  Sandwich/rear-side
- 2 Functions :
  Appliance Inlet Protection class I , with or without Fuseholder for fuse-links 5 x 20 mm on the rear-side 1- or 2-pole
- 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.
- For PCB mounting
- Pick and place version

Characteristics
- PCB mount with snap-in or screw-on feet
  Suitable for automatic PCB assembling
- All single elements are already wired
- Fuseholder on the inside of the equipment prevents accidental use of incorrect fuse-links by the user
- With or without rear-side insulation cover
- Blister tray as optional packaging variant
- Suitable for use in equipment according to IEC/UL 60950

Other versions on request
- Ground terminal with quick-connect terminal 6,3 x 0,8 mm
- Ground terminal with solder terminal
- For protection class II

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

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

Ratings IEC	10 A / 250 VAC; 50 Hz	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
Ratings UL/CSA	10 A / 250 VAC; 60 Hz		
	without fuseholder 16 A (UL)	Fuseholder	optional, 1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Dielectric Strength	> 3 kVAC between L-N		
	> 4 kVAC between L/N-PE		
	(1 min/50 Hz)	Rated Power Acceptance @ Ta 23 °C	5 x 20: 3.15 W (1 pole)/ 2.5 W (2-pole) per pole
Allowable Operation Temperature	-25 °C to 70 °C		
IP-Protection	from front side IP40 acc. to IEC 60529	Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves
Protection against electric shock	Suitable for appliances with protection class I acc. to IEC 61140		
Terminal	For PCB mounting		
Panel Thickness S	Snap-in: 1.5/2/2.5/3 mm		
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

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: GSF1

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	Certificate Number: 40024857
	UL Approvals	UL	UL File Number: E93617, E96454
	CCC Approvals	CCC	CCC Certificate Number: 2006010204183182

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 60127-6	Miniature fuses. Part 6. Fuse-holders for miniature fuse-links
IEC	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
CSA Group	Designed according to	CSA C22.2 no. 42	General Use Receptacles, Attachment Plugs, and Similar Wiring Devices

Application standards
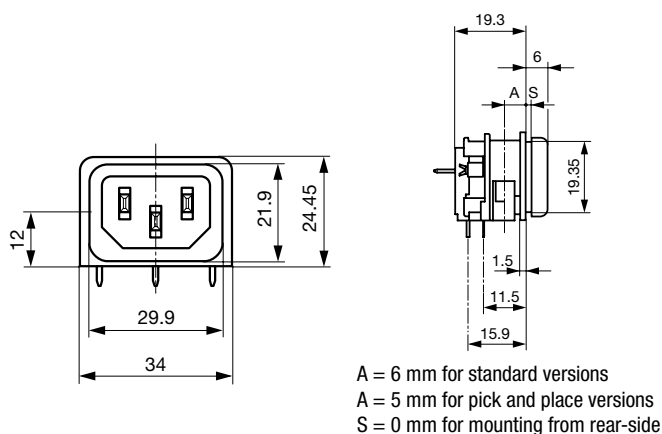
Application standards where the product can be used

Organization	Design	Standard	Description
IEC	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.
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	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
	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.
V-Lock	Landing Page V-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.
	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.

Dimensions [mm]
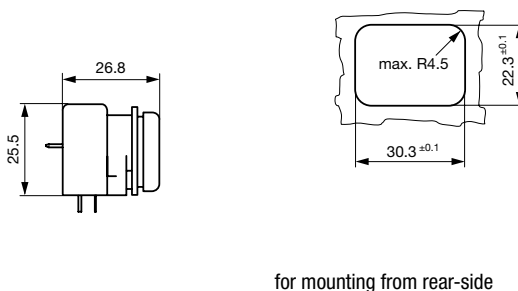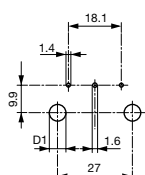
with insulation cover

19.3
6
A S
19.35
1.5
11.5
15.9

21.9
24.45
12
29.9
34

26.8
25.5

max. R4.5
22.3 ±0.1
30.3 ±0.1

A = 6 mm for standard versions
A = 5 mm for pick and place versions
S = 0 mm for mounting from rear-side

for mounting from rear-side

27
A
27.5

max. R2
19.7 ±0.1
27.7 ±0.1

A = 6 mm for standard versions
A = 5 mm for pick and place versions

for sandwich mounting

Drilling diagrams
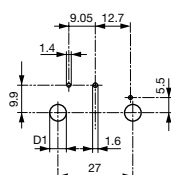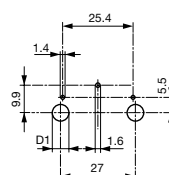
without fuseholder	with 1-pole fuseholder	with 2-pole fuseholder	Pick and Place versions without / with 1-pole or 2-pole fuseholder
18.1 / 1.4 / 9.9 / D1 / 1.6 / 27	9.05 12.7 / 1.4 / 9.9 / 5.5 / D1 / 1.6 / 27	25.4 / 1.4 / 9.9 / 5.5 / D1 / 1.6 / 27	25.4 ±0.10 / 1.4 3.5 1.6 / 10.9 ±0.05 / 2.5 / 6.5 ±0.05 / 5.8 / 1.6 / 2.3 ±0.05 / 1.6 / 2.3 ±0.05 / 26.7 ±0.10
D1 for snap-in mounting = 6 ± 0.05	D1 for snap-in mounting = 6 ± 0.05	D1 for snap-in mounting = 6 ± 0.05	1* only for protection class II
D1 for self-tapping screw = 3.6 ± 0.1	D1 for self-tapping screw = 3.6 ± 0.1	D1 for self-tapping screw = 3.6 ± 0.1	
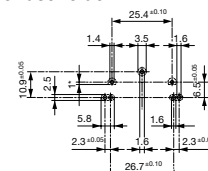
Derating Curves

1-pole

Admissible Power Acceptance in Watt

3.15
2.5
2.0
1.5
1.0
0.5
0.0

I = 1.0 I_n
I = 0.7 I_n
I = << I_n

0   20   40   60   80   100
Ambient Air Temperature Ta °C

2-pole

Admissible power acceptance in Watt per pole

2.5
2.0
1.5
1.0
0.5
0.0

I = 1.0 I_n
I = 0.7 I_n
I = << I_n

0   20   40   60   80   100
Ambient Air Temperature Ta °C
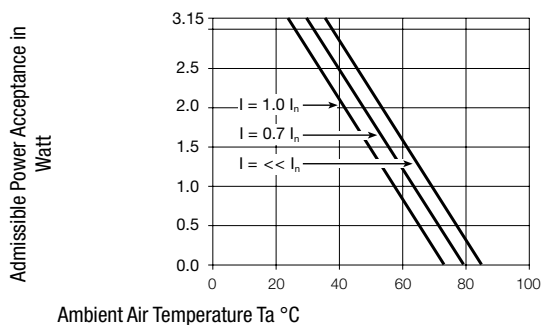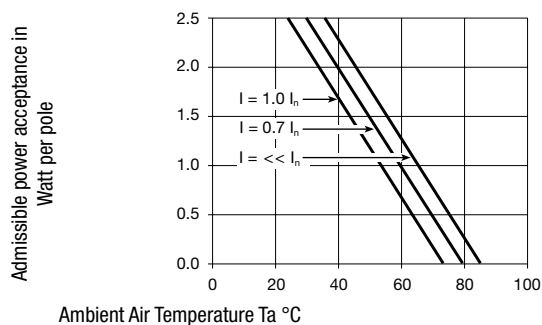
All Variants

Mounting side	Panel mounting	Panel Thickness s [mm]	Fuseholder	Ground terminal 4.8 x 0.8 mm	Ground terminal direction	Packaging	V-Lock	Order Number
Sandwich	Snap-in	1.5	-	●	angled to pin axis	-		GSF1.0202.31
Sandwich	Snap-in	1.5	-	●	straight	-		GSF1.0201.31
Sandwich	Snap-in	2	-	●	angled to pin axis	-		GSF1.0202.41
Sandwich	Snap-in	2	-	●	straight	-		GSF1.0201.41
Sandwich	Snap-in	2.5	-	●	angled to pin axis	-		GSF1.0202.51
Sandwich	Snap-in	2.5	-	●	straight	-		GSF1.0201.51
Sandwich	Snap-in	3	-	●	angled to pin axis	-		GSF1.0202.61
Sandwich	Snap-in	3	-	●	straight	-		GSF1.0201.61
Sandwich	Snap-in	1.5	1-pole	●	angled to pin axis	-		GSF1.1202.31
Sandwich	Snap-in	1.5	1-pole	●	straight	-		GSF1.1201.31
Sandwich	Snap-in	2	1-pole	●	angled to pin axis	-		GSF1.1202.41
Sandwich	Snap-in	2	1-pole	●	straight	-		GSF1.1201.41
Sandwich	Snap-in	2.5	1-pole	●	angled to pin axis	-		GSF1.1202.51
Sandwich	Snap-in	2.5	1-pole	●	straight	-		GSF1.1201.51
Sandwich	Snap-in	3	1-pole	●	angled to pin axis	-		GSF1.1202.61
Sandwich	Snap-in	3	1-pole	●	straight	-		GSF1.1201.61
Sandwich	Snap-in	1.5	2-pole	●	angled to pin axis	-	▌	GSF1.2202.31
Sandwich	Snap-in	1.5	2-pole	●	straight	-		GSF1.2201.31
Sandwich	Snap-in	2	2-pole	●	angled to pin axis	-		GSF1.2202.41
Sandwich	Snap-in	2	2-pole	●	straight	-		GSF1.2201.41
Sandwich	Snap-in	2.5	2-pole	●	angled to pin axis	-		GSF1.2202.51
Sandwich	Snap-in	2.5	2-pole	●	straight	-		GSF1.2201.51
Sandwich	Snap-in	3	2-pole	●	straight	-		GSF1.2201.61
Sandwich	Screw	1.5	-	●	angled to pin axis	-		GSF1.0002.31
Sandwich	Screw	1.5	-	●	straight	-		GSF1.0001.31
Sandwich	Screw	2	-	●	angled to pin axis	-		GSF1.0002.41
Sandwich	Screw	2	-	●	straight	-		GSF1.0001.41
Sandwich	Screw	2.5	-	●	angled to pin axis	-		GSF1.0002.51
Sandwich	Screw	2.5	-	●	straight	-		GSF1.0001.51
Sandwich	Screw	3	-	●	angled to pin axis	-		GSF1.0002.61
Sandwich	Screw	3	-	●	straight	-		GSF1.0001.61
Sandwich	Screw	1.5	1-pole	●	angled to pin axis	-	▌	GSF1.1002.31
Sandwich	Screw	1.5	1-pole	●	straight	-		GSF1.1001.31
Sandwich	Screw	2	1-pole	●	angled to pin axis	-		GSF1.1002.41
Sandwich	Screw	2	1-pole	●	straight	-		GSF1.1001.41
Sandwich	Screw	2.5	1-pole	●	angled to pin axis	-		GSF1.1002.51
Sandwich	Screw	2.5	1-pole	●	straight	-		GSF1.1001.51
Sandwich	Screw	2.5	1-pole	●	straight	-		GSF1.1006.51
Sandwich	Screw	2.5	1-pole	●	straight	Blister tray		3-104-974
Sandwich	Screw	3	1-pole	●	angled to pin axis	-		GSF1.1002.61
Sandwich	Screw	3	1-pole	●	straight	-		GSF1.1001.61
Sandwich	Screw	1.5	2-pole	●	angled to pin axis	-		GSF1.2002.31
Sandwich	Screw	1.5	2-pole	●	straight	-		GSF1.2001.31
Sandwich	Screw	2	2-pole	●	angled to pin axis	-		GSF1.2002.41
Sandwich	Screw	2	2-pole	●	straight	-		GSF1.2001.41
Sandwich	Screw	2.5	2-pole	●	angled to pin axis	-		GSF1.2002.51

Mounting side	Panel mounting	Panel Thickness s [mm]	Fuseholder	Ground terminal 4.8 x 0.8 mm	Ground terminal direction	Packaging	V-Lock	Order Number
Sandwich	Screw	2.5	2-pole	●	straight	-		GSF1.2001.51
Sandwich	Screw	3	2-pole	●	angled to pin axis	-		GSF1.2002.61
Sandwich	Screw	3	2-pole	●	straight	-		GSF1.2001.61
Rear Side	Snap-in	6	-	●	angled to pin axis	-		GSF1.0202.01
Rear Side	Snap-in	6	-	●	straight	-		GSF1.0201.01
Rear Side	Snap-in	6	1-pole	●	angled to pin axis	-		GSF1.1202.01
Rear Side	Snap-in	6	1-pole	●	straight	-		GSF1.1201.01
Rear Side	Snap-in	6	2-pole	●	angled to pin axis	-		GSF1.2202.01
Rear Side	Snap-in	6	2-pole	●	straight	-	▮	GSF1.2201.01
Rear Side	Screw	6	-	●	angled to pin axis	-	▮	GSF1.0002.01
Rear Side	Screw	6	-	●	straight	-		GSF1.0001.01
Rear Side	Screw	6	1-pole	●	angled to pin axis	-		GSF1.1002.01
Rear Side	Screw	6	1-pole	●	straight	-		GSF1.1001.01
Rear Side	Screw	6	2-pole	●	angled to pin axis	-		GSF1.2002.01
Rear Side	Screw	6	2-pole	●	straight	-		GSF1.2001.01
Rear Side	Metal snaps	6	-	●	angled to pin axis	Blister tray		GSF1.3402.01
Rear Side	Metal snaps	6	1-pole	●	angled to pin axis	Blister tray		GSF1.4402.01
Rear Side	Metal snaps	6	2-pole	●	angled to pin axis	Blister tray	▮	GSF1.5402.01

▮ Most Popular.

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

Insulation cover must be ordered separately. Order No. 0098.0078

Optional blister tray packaging 250 Pcs

Packaging unit	50 Pcs

Accessories

Description

Assorted Covers
Rear Cover

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 terminals or quick connect terminals, 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

Appliance Outlet further types to GSF1

Connector Overview complete

4022 Mounting: Power Supply Cord, 3 x 1.5 mm², Screw clamps, Connector: IEC C13	4022
4782 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4782
4012 Mounting: Power Supply Cord, 3 x 1 mm², Screw clamps, Connector: IEC C13	4012
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
Connector further types to GSF1	...

Mating Outlets/Connectors shuttered

Power Cord Overview complete

VAC13KS, Overview, V-Lock cord retaining, diverse Connector IEC C13, diverse, black	VAC13KS
VAC17KS, V-Lock cord retaining, diverse m, Connector IEC C17, diverse, black / grey / white	VAC17KS
Power Cord further types to GSF1	

11.03.2020

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Schurter:

  GSF1.0001.01 GSF1.2212.31 GSF1.1212.31 GSF1.0002.41 GSF1.0023.01 GSF1.2202.41 GSF1.0202.31
GSF1.0001.31 GSF1.0104.01 GSF1.0222.31 GSF1.1001.01 GSF1.1001.31 GSF1.1002.01 GSF1.1002.31
GSF1.1002.41 GSF1.1002.61 GSF1.1012.01 GSF1.1012.41 GSF1.1101.01 GSF1.1102.01 GSF1.1102.31
GSF1.1102.51 GSF1.1106.01 GSF1.1201.51 GSF1.1202.31 GSF1.1212.01 GSF1.1304.01 GSF1.1304.31
GSF1.2001.01 GSF1.2002.01 GSF1.2002.31 GSF1.2002.41 GSF1.2002.51 GSF1.2002.71 GSF1.2011.01
GSF1.2012.01 GSF1.2012.31 GSF1.2102.01 GSF1.2102.31 GSF1.2102.41 GSF1.2200.51 GSF1.2201.31
GSF1.2201.41 GSF1.2201.61 GSF1.2202.01 GSF1.2202.31 GSF1.2202.61 GSF1.2204.41 GSF1.2204.51
GSF1.2211.01 GSF1.2211.31 GSF1.2212.01 GSF1.2212.41 GSF1.2212.51 GSF1.2304.31 GSF1.1202.41
GSF1.0221.31 GSF1.0002.51 GSF1.0123.01 GSF1.0002.01 GSF1.0201.01 GSF1.2206.01 GSF1.0402.01
GSF1.4402.01 GSF1.0021.31 GSF1.2201.01 GSF1.0221.01 GSF1.1202.01 GSF1.0002.31 GSF1.2001.61
GSF1.0102.31 GSF1.0202.41 GSF1.0211.31 GSF1.3402.01 GSF1.1201.31