IEC Appliance Inlet C20 with Filter, ECO design, front or rear side Mounting

Standard- or Medical-Filter

V-Lock

new



Screw-on or rivet mounting from front or rear side
Screw-On Version



Screw-on mounting from rear side, integrated thread
Screw-On Version



Snap-in mounting from front side

C20

70° C

Description

- Panel Mount:
  Screw-on version from front or rear side, snap-in version from front side
- 2 Functions:
  Appliance Inlet Protection class I, Line filter in standard and medical version
- Quick connect terminals

Approvals

- VDE Certificate Number: 104884
- UL File Number: E72928

Characteristics

- Optimal shielding due to completely closed filter case, unpotted
  Suitable for assembly in metal plated plastic housings
- Version with class X1 and X2 (standard version) capacitors
- Universal line filter for standard applications
  Designed for standard and medical applications
- 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

- Solder terminals
- Medical version M80
- Capacity CX 330 nF

References

Fits to type: Cord Sets 15 A; 4790; 4795 Cord Sets 15 A; 0104; 010 4U; 1651; 1652; 1654; 4790; 4795; VAC13KS
Alternative: Standard version
Alternative: version without line filter 4793

Weblinks

pdf-datasheet, html-datasheet, General Product Information, RoHS, CHINA-RoHS, REACH, Mating Connectors, e-Shop, SCHURTER-Stock-Check, Distributor-Stock-Check, Accessories, Wire Harnessing

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.

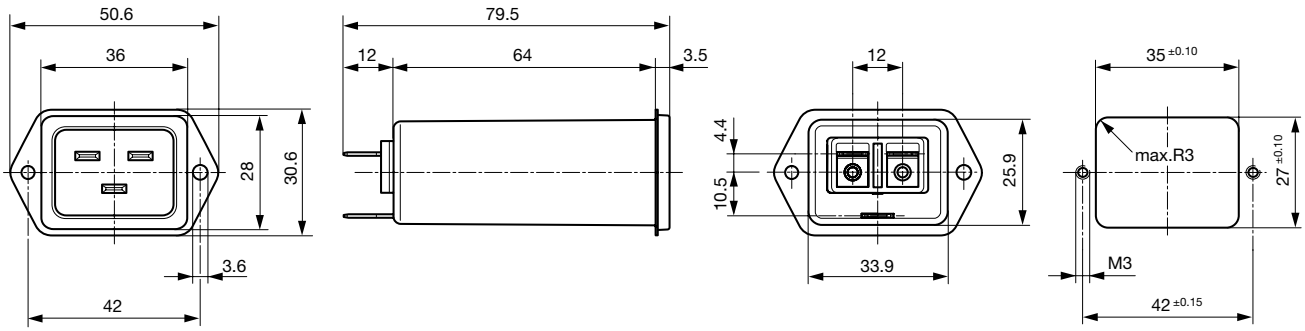
Technical Data

Ratings IEC	16 A @ Ta 40 °C / 250 VAC; 50 Hz
Ratings UL/CSA	20 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)
Impulse Withstand Voltage	> 2.5 kV between L-N (CX2) > 4 kV between L-N (CX1) > 5 kV between L/N-PE (Cy2) voltage (1.2/50 µs)
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	Quick connect terminal 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 (all steps with one variant)
Material: Housing	Themoplast / steel tin-plated, black / metallic, UL 94V-0

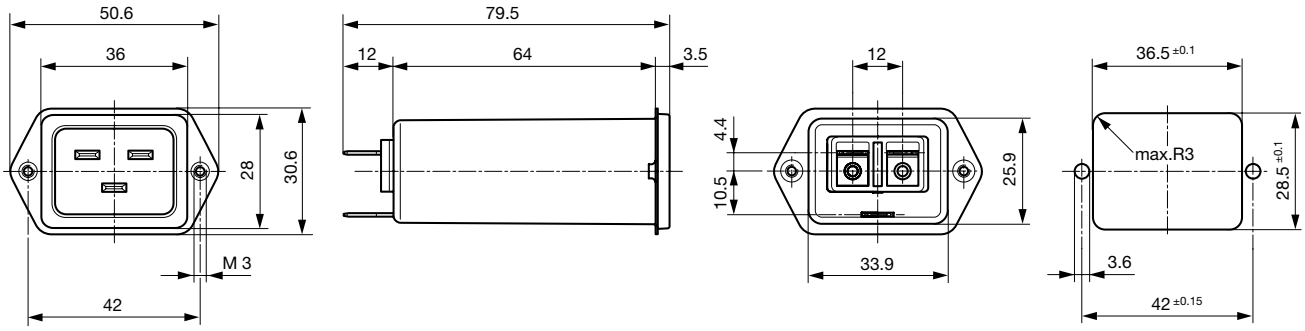
Appliance-Inlet/-Outlet	C20 acc. to IEC 60320, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 16 A, Protection Class I
Line Filter	Standard and Medical Version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details
MTBF	> 3'000'000 h acc. to MIL-HB-217 F

Dimension

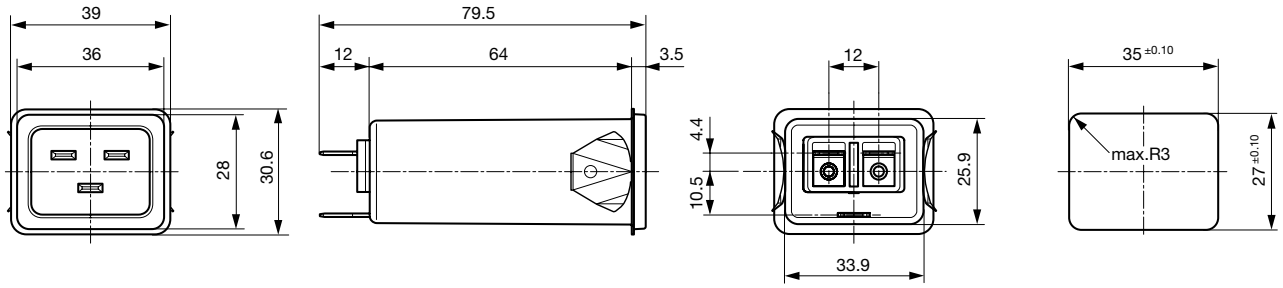
Front or rear side mounting for screws with nuts or blind rivets



Rear side mounting with pre-formed, threaded holes for M3 screws



Snap-in mounting from front side

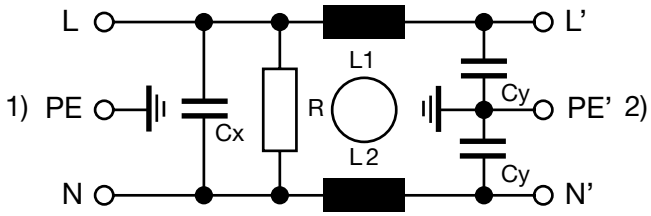


Technical Data of Filter-Components

Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
16	Standard Version	2 x 0.6	100	2.2	1
20	Standard Version	2 x 0.3	100	2.2	1
16	Medical Version (M5)	2 x 0.6	100	-	1
20	Medical Version (M5)	2 x 0.3	100	-	1

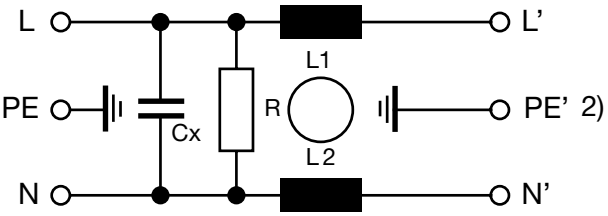
Diagrams

Standard or medical version (M80)



1) Line
2) Load

Medical version



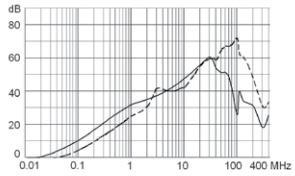
1) Line
2) Load

Attenuation Loss

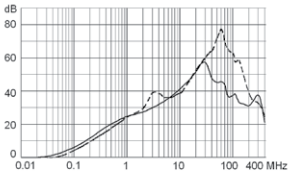
- - - - differential mode _____ common mode

Standard version

16 A

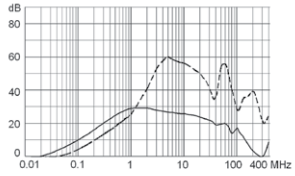


20 A

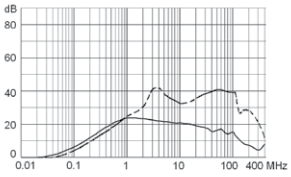


Medical version (M5)

16 A



20 A



All Variants

Rated Current IEC [A]	Rated Current UL [A]	Filter-Type	Panel mounting	Mounting side	Terminal	Capacitor	Order Number	
16	16	Standard Version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8	X2 100nF	5130.2000	■
16	20	Standard Version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8	X2 100nF	5130.2001	
16	16	Standard Version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8	X1 100nF	5130.2100	
16	20	Standard Version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8	X1 100nF	5130.2101	
16	16	Standard Version	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8	X2 100nF	5130.0000	■
16	16	Standard Version	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8	X2 100nF	5130.0000.21	■
16	20	Standard Version	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8	X2 100nF	5130.0001	
16	16	Standard Version	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8	X1 100nF	5130.0100	
16	20	Standard Version	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8	X1 100nF	5130.0101	
16	16	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8	X2 100nF	5130.1000	■
16	20	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8	X2 100nF	5130.1001	
16	16	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8	X1 100nF	5130.1100	■

Rated Current IEC [A]	Rated Current UL [A]	Filter-Type	Panel mounting	Mounting side	Terminal	Capacitor	Order Number
16	20	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8	X1 100nF	5130.1101
16	20	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals	X1 100nF	5130.2301
16	16	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8	X2 100nF	5130.2200
16	20	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8	X2 100nF	5130.2201
16	16	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8	X1 100nF	5130.2300
16	16	Medical Version (M5)	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8	X2 100nF	5130.0200
16	20	Medical Version (M5)	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8	X2 100nF	5130.0201
16	16	Medical Version (M5)	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8	X1 100nF	5130.0300
16	16	Medical Version (M5)	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8	X1 100nF	5130.0300.21
16	20	Medical Version (M5)	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8	X1 100nF	5130.0301
16	16	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8	X2 100nF	5130.1200
16	20	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8	X2 100nF	5130.1201
16	16	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8	X1 100nF	5130.1300
16	20	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8	X1 100nF	5130.1301

Most Popular.

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

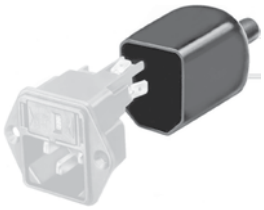
Type for screw on mounting from rear side has pre-threaded holes for M3 screws

Suffix ".21" corresponds to the version with 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.

Packaging unit 20 Pcs

Accessories

Description



Assorted Covers
Rear Cover



Wire Harness
Wire harness for SCHURTER products



Cord retaining kits
Cord retaining strain relief

Mating Inlets/Plugs



Category / Description

Connector Overview complete

IEC Connector C19, Rewireable, Angled	4790
IEC Connector C19, Rewireable, Straight	4795

Connector further types to 5130



Power Supply or Interconnection Cord Overview complete

Diverse Power Supply and Interconnection Cords 16 A	Cord Sets 15 A

Power Supply or Interconnection Cord further types to 5130

Mating Outlets/Connectors



Connector Overview complete

IEC Connector C19, Rewireable, Straight	0104U
IEC Connector C19, Rewireable, Angled	4790
IEC Connector C19, Rewireable, Straight	4795

Connector further types to 5130



Power Supply or Interconnection Cord Overview complete

Diverse Power Supply and Interconnection Cords 16 A	Cord Sets 15 A

Power Supply or Interconnection Cord further types to 5130

Mating Outlets/Connectors shuttered



Power Cord Overview complete

Overview Power Supply Cord with IEC Connector C13, V-Lock, straight	VAC13KS

Power Cord further types to 5130

23.07.2014

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.