IEC Appliance Inlet C20 with Filter, Front or Rear Side Mounting

Standard- or Medical-Filter

V-Lock



Screw-on mounting
from front side



Snap-in mounting
from front side



Screw-on mounting
from rear side
with wires (stranded)

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
- Solder, quick connect or wires (stranded)

Approvals

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

Characteristics

- Compact design with optimal shielding
  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

- 16A according to UL
- Capacity CX 330 nF

References

Alternative: version without line filter 4793; 4798

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.

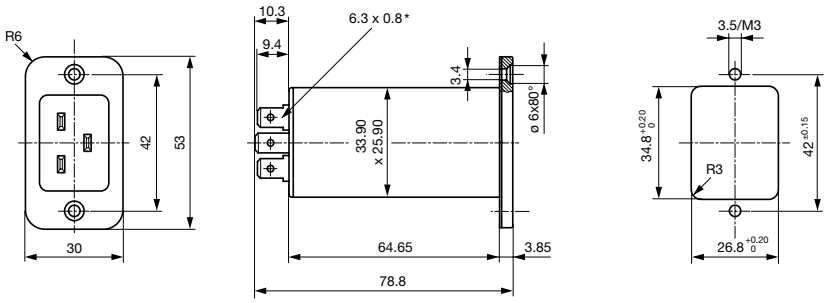
Technical Data

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 (Cy2) > 2.7 kVDC between L/N-PE (Cy2) 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	Solder, quick connect or wires (stranded)
Panel Thickness s	Screw: max 8 mm Mounting screw torque max 0.5 Nm Snap-in: 1 mm to 3 mm
Material: Housing	Thermoplastic, black, 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

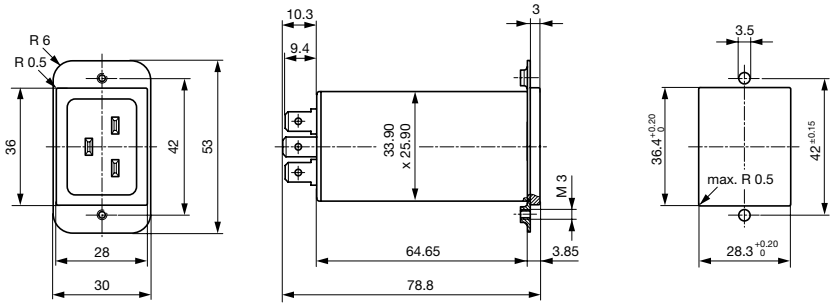
Dimension

Screw-on mounting from front side

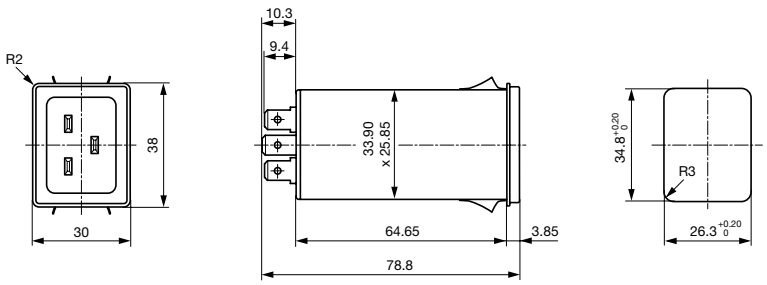


* Solder terminal: identical outer dimensions

Screw-on mounting from rear side with metal flange



Snap-in mounting from front side

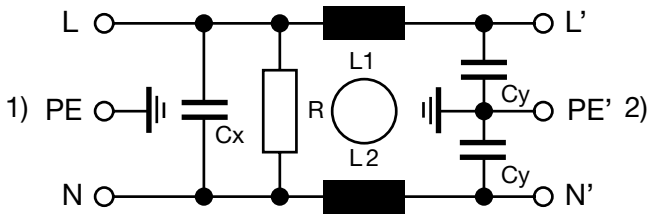


Technical Data of Filter-Components

Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
16	Standard Version	2 x 0.3	100	2.2	1
16	Medical Version (M5)	2 x 0.3	100	-	1
16	Medical Version (M80)	2 x 0.3	100	0.47	1

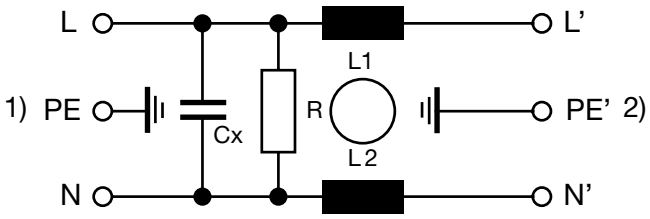
Diagrams

Standard or medical version (M80)



1) Line
2) Load

Medical version



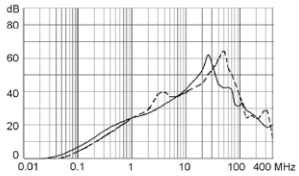
1) Line
2) Load

Attenuation Loss

- - - - differential mode _____ common mode

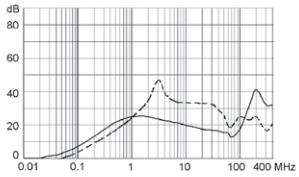
Standard version

20 A



Medical version (M5)

20 A



All Variants

Rated Current IEC [A]	Rated Current UL [A]	Filter-Type	Panel mounting	Mounting side	Terminal	Capacitor	Order Number
16	20	Standard Version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8	X2 100nF	C20F.0111
16	20	Standard Version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8	X1 100nF	C20F.0113
16	20	Standard Version	Snap-in	Front Side	Solder terminals	X2 100nF	C20F.0011
16	20	Standard Version	Snap-in	Front Side	Solder terminals	X1 100nF	C20F.0013
16	20	Standard Version	Screw	Front Side	Quick connect terminals 6.3 x 0.8	X2 100nF	C20F.0101
16	20	Standard Version	Screw	Front Side	Quick connect terminals 6.3 x 0.8	X2 100nF	C20F.0101.21
16	20	Standard Version	Screw	Front Side	Quick connect terminals 6.3 x 0.8	X1 100nF	C20F.0103
16	20	Standard Version	Screw	Front Side	Solder terminals	X2 100nF	C20F.0001
16	20	Standard Version	Screw	Front Side	Solder terminals	X2 100nF	C20F.0001.21
16	20	Standard Version	Screw	Front Side	Solder terminals	X1 100nF	C20F.0003
16	20	Standard Version	Screw	Rear Side	Flexible wire AWG14	X2 100nF	C20F.0221
16	20	Standard Version	Screw	Rear Side	Flexible wire AWG14	X1 100nF	C20F.0223
16	20	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8	X2 100nF	C20F.0121
16	20	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8	X1 100nF	C20F.0123
16	20	Standard Version	Screw	Rear Side	Solder terminals	X2 100nF	C20F.0021
16	20	Standard Version	Screw	Rear Side	Solder terminals	X1 100nF	C20F.0023
16	20	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8	X2 100nF	C20F.0112
16	20	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8	X1 100nF	C20F.0114

Rated Current IEC [A]	Rated Current UL [A]	Filter-Type	Panel mounting	Mounting side	Terminal	Capacitor	Order Number
16	20	Medical Version (M5)	Snap-in	Front Side	Solder terminals	X2 100nF	C20F.0012
16	20	Medical Version (M5)	Snap-in	Front Side	Solder terminals	X1 100nF	C20F.0014
16	20	Medical Version (M5)	Screw	Front Side	Quick connect terminals 6.3 x 0.8	X2 100nF	C20F.0102
16	20	Medical Version (M5)	Screw	Front Side	Quick connect terminals 6.3 x 0.8	X1 100nF	C20F.0104
16	20	Medical Version (M5)	Screw	Front Side	Solder terminals	X2 100nF	C20F.0002
16	20	Medical Version (M5)	Screw	Front Side	Solder terminals	X1 100nF	C20F.0004
16	20	Medical Version (M5)	Screw	Rear Side	Flexible wire AWG14	X2 100nF	C20F.0222
16	20	Medical Version (M5)	Screw	Rear Side	Flexible wire AWG14	X1 100nF	C20F.0224
16	20	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8	X2 100nF	C20F.0122
16	20	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8	X1 100nF	C20F.0124
16	20	Medical Version (M5)	Screw	Rear Side	Solder terminals	X2 100nF	C20F.0022
16	20	Medical Version (M5)	Screw	Rear Side	Solder terminals	X1 100nF	C20F.0024

Most Popular.

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

Wire length: 150 mm

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. Available only for screw-on versions.

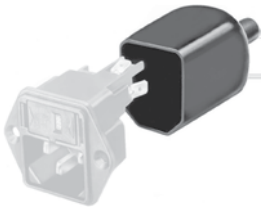
Packaging unit 20 Pcs

Accessories

Description



Wire Harness
Wire harness for SCHURTER products



Assorted Covers
Rear Cover



Cord retaining kits
Cord retaining strain relief

Mating Outlets/Connectors



Category / Description

Connector Overview complete

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

Connector further types to C20F

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 C20F

22.04.2015

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.