

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

Standard- or Medical-Filter

Screw-on mounting
from front sideSnap-in mounting
from front sideNew
Screw-on mounting
from rear side
with wires (stranded)**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 License Number: 104884
- UL License Number: E72928
- CSA License Number: 97784

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
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- 16A according to UL
- Capacity CX 330 nF

References

[General Product Information](#)

Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [Mating Connectors](#), [e-Store](#),
[SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

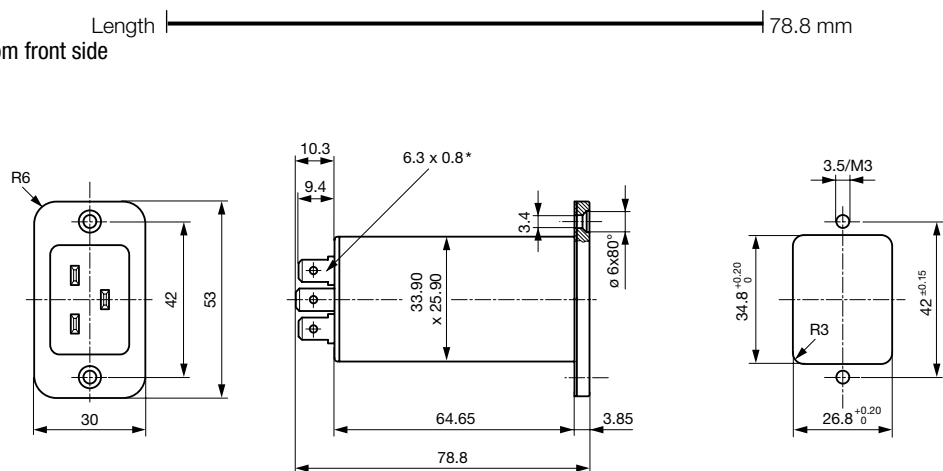
Technical Data

Ratings IEC	16A @ Ta 40 °C / 250VAC; 50Hz
Ratings UL/CSA	20A @ Ta 40 °C / 250VAC; 60Hz
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 1 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/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 16A, Protection Class 1
Line Filter	Standard and Medical Version, IEC 60939, IEC 60601-1, UL 1283, UL 544, EN 133 200, CSA C22.2 no. 8 Technical details
MTBF	> 3'000'000 h acc. to MIL-HB-217 F

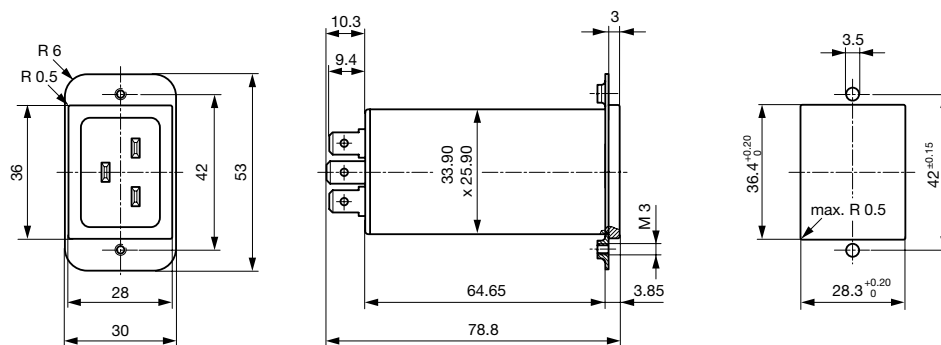
Dimensions

Screw-on mounting from front side

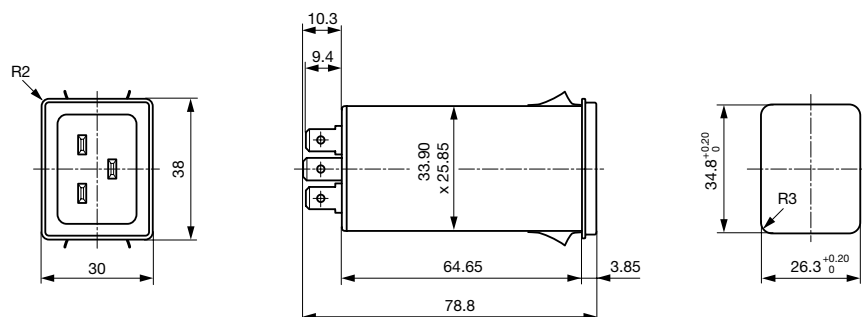


* Solder terminal: identical outer dimensions

Screw-on mounting from rear side with metal flange



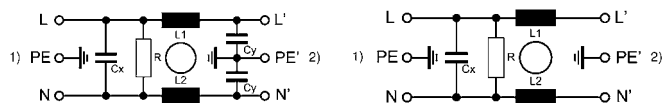
Snap-in mounting from front side

**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

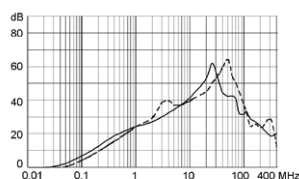
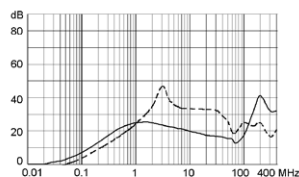
Standard or medical version (M80) Medical version (M5)

1) Line
2) Load1) Line
2) Load

Attenuation Loss

Standard version
IEC 16A / UL 20A

- - - differential mode ____ common mode

Medical version (M5)
IEC 16A / UL 20A

Variants

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Rated Current IEC [A]	Rated Current UL [A]	Filter-Type	Panel mounting	Mounting side	Terminal	Capacitor	Order Number
16	20	Standard Version	Screw	Front-Side	Quick connect terminals	X2	C20F.0101
16	20	Standard Version	Screw	Front-Side	Quick connect terminals	X1	C20F.0103
16	20	Standard Version	Screw	Front-Side	Solder terminals	X2	C20F.0001
16	20	Standard Version	Screw	Front-Side	Solder terminals	X1	C20F.0003
16	20	Standard Version	Screw	Rear-Side	Flexible wire14 AWG	X2	C20F.0221
16	20	Standard Version	Screw	Rear-Side	Flexible wire14 AWG	X1	C20F.0223
16	20	Standard Version	Screw	Rear-Side	Quick connect terminals	X2	C20F.0121
16	20	Standard Version	Screw	Rear-Side	Quick connect terminals	X1	C20F.0123
16	20	Standard Version	Screw	Rear-Side	Solder terminals	X2	C20F.0021
16	20	Standard Version	Screw	Rear-Side	Solder terminals	X1	C20F.0023
16	20	Standard Version	Snap-in	Front-Side	Quick connect terminals	X2	C20F.0111
16	20	Standard Version	Snap-in	Front-Side	Quick connect terminals	X1	C20F.0113
16	20	Standard Version	Snap-in	Front-Side	Solder terminals	X2	C20F.0011
16	20	Standard Version	Snap-in	Front-Side	Solder terminals	X1	C20F.0013
16	20	Medical Version (M5)	Screw	Front-Side	Quick connect terminals	X2	C20F.0102
16	20	Medical Version (M5)	Screw	Front-Side	Quick connect terminals	X1	C20F.0104
16	20	Medical Version (M5)	Screw	Front-Side	Solder terminals	X2	C20F.0002
16	20	Medical Version (M5)	Screw	Front-Side	Solder terminals	X1	C20F.0004
16	20	Medical Version (M5)	Screw	Rear-Side	Wires14 AWG	X1	C20F.0224
16	20	Medical Version (M5)	Screw	Rear-Side	Flexible wire14 AWG	X2	C20F.0222
16	20	Medical Version (M5)	Screw	Rear-Side	Quick connect terminals	X2	C20F.0122
16	20	Medical Version (M5)	Screw	Rear-Side	Quick connect terminals	X1	C20F.0124
16	20	Medical Version (M5)	Screw	Rear-Side	Solder terminals	X2	C20F.0022

Rated Current IEC [A]	Rated Current UL [A]	Filter-Type	Panel mounting	Mounting side	Terminal	Capacitor	Order Number
16	20	Medical Version (M5)	Screw	Rear-Side	Solder terminals	X1	C20F.0024
16	20	Medical Version (M5)	Snap-in	Front-Side	Quick connect terminals	X2	C20F.0112
16	20	Medical Version (M5)	Snap-in	Front-Side	Quick connect terminals	X1	C20F.0114
16	20	Medical Version (M5)	Snap-in	Front-Side	Solder terminals	X2	C20F.0012
16	20	Medical Version (M5)	Snap-in	Front-Side	Solder terminals	X1	C20F.0014
16	20	Medical Version (M80)	Screw	Rear-Side	Quick connect terminals	X2	C20F.0125
16	20	Medical Version (M80)	Screw	Rear-Side	Quick connect terminals	X1	C20F.0126
16	20	Medical Version (M80)	Screw	Rear-Side	Solder terminals	X2	C20F.0025
16	20	Medical Version (M80)	Screw	Rear-Side	Solder terminals	X1	C20F.0026

Wire lenght: 150 mm

Packaging unit 20 Pcs

Accessories

Description



[Assorted Covers](#)
Rear Cover

0859.0047



[Cord retaining kits](#)
Cord retaining strain relief

Countersunk, K

4700.0010

Flat head, L

4700.0011

Mating Outlets/Connectors

Category / Description

Connector Overview complete



IEC Connector C19, Rewireable, Straight

0104

IEC Connector C19, Rewireable, Angled

1651

IEC Connector C19, Rewireable, Straight

1652

IEC Connector C19, Rewireable, Angled

4790

IEC Connector C19, Rewireable, Straight

4795

Connector further types to C20F



Power Cord Overview complete

Power Cord with IEC Connector C19, Straight

1654

Power Cord further types to C20F

Power Supply or Interconnection Cord Overview complete

Divers Power Supply and Interconnection Cords 16 A

Kabelverbindung/16 A

Power Supply or Interconnection Cord further types to C20F