IEC Appliance Inlet C14 or C18 with Filter, ECO design, Front- or Rear Side Mounting

Standard- or Medical-Filter

V-Lock



Front side mounting with plastic flange



Snap-in mounting
Quick connect terminals 6.3 x 0.8 mm
Protection class II



Screw-on mounting
with wires (stranded)

C14 70° C

C18 70° C

Description

- Panel Mount :
  Screw-on version from front or rear side, snap-in version from front side, PCB Version from rear side
- 2 Functions :
  Appliance Inlet protection class I or II , Line filter in standard and medical version
- Solder, quick connect or wire (stranded)
- PCB Mounting
- Earth Terminal

Unique Selling Proposition

- Various variants
- Metal flange for optimal shielding
- Compact design
- Variants for protection class I and II

Approvals

- VDE Certificate Number: 40016382
- UL File Number: E72928
- CCC File Number: 2010010204438235

Characteristics

- Compact high performance filter
  Optimal shielding due to completely closed filter case, unpotted
- Designed for standard and medical applications
  Suitable for assembly in metal plated plastic housings
- 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

- Snap-in for panel thickness >2mm to 3mm
- flexible wire with various lenghts
- Class X1- and Y1-capacitors for enhanced withstand voltage
- Medical version M80
- Variant with notch for V-Lock mating Cordsets

References

Alternative: version without line filter 6100-3; 6100-4; 6102-3; 6102-5

Weblinks

pdf datasheet, html-datasheet, General Product Information, RoHS, CHINA-RoHS, REACH, 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.

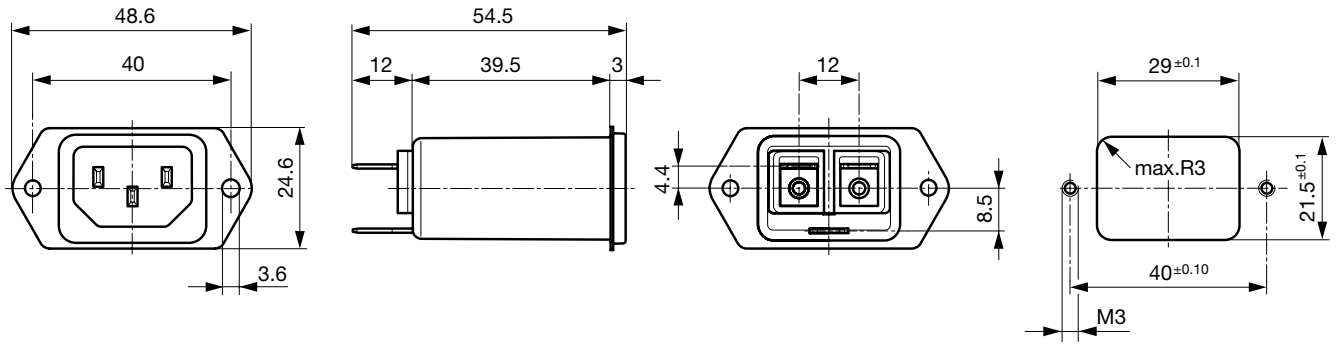
Technical Data

Ratings IEC	1 - 10 A @ Ta 40 °C / 250 VAC; 50 Hz
Ratings UL/CSA	1 - 15 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)
Allowable Operation Temp.	-25 °C to 85 °C
Climatic Category	25/085/21 acc. to IEC 60068-1
IP-Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I or II acc. to IEC 61140
Terminal	Quick connect terminals 6.3 x 0.8 mm Solder terminals Flexible wire AWG18 (15A AWG16), 150 mm
Panel Thickness s	Screw with plastic flange: max 8 mm Mounting screw torque max 0.5 Nm Snap-in: 0.8 mm to 2 mm (all steps with one variant)
Material: Housing	Themoplast / steel tin-plated, black / metallic, UL 94V-0

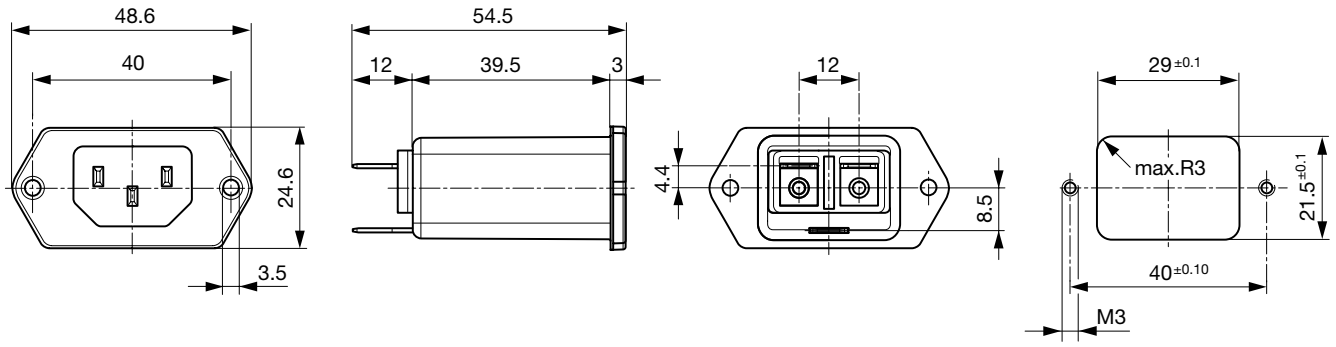
appliance inlet/-outlet	C14 / C18 acc. to IEC 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection Class I or II
Line Filter	Standard and Medical Version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details
MTBF	> 3'000'000 h acc. to MIL-HB-217 F

Dimension

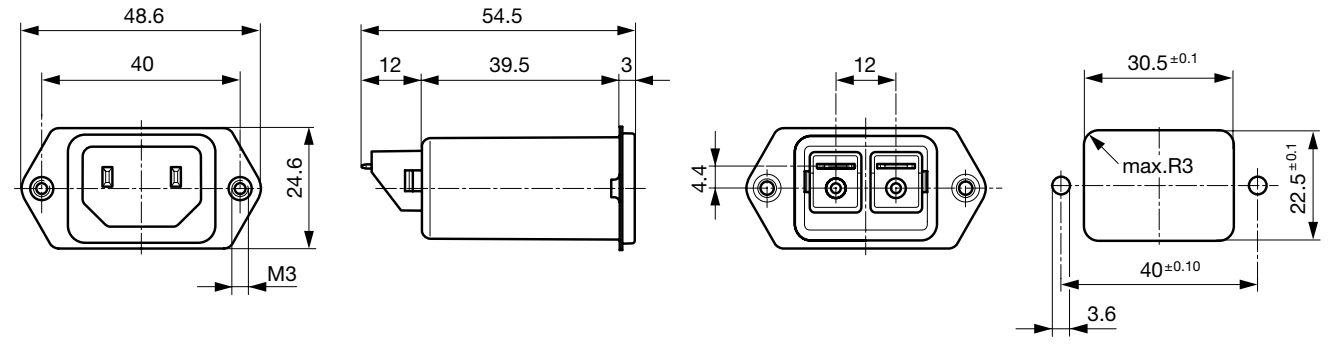
Front or rear side mounting for screws with nuts or blind rivets (panel cutout for frontside mounting)



Front side mounting with plastic flange

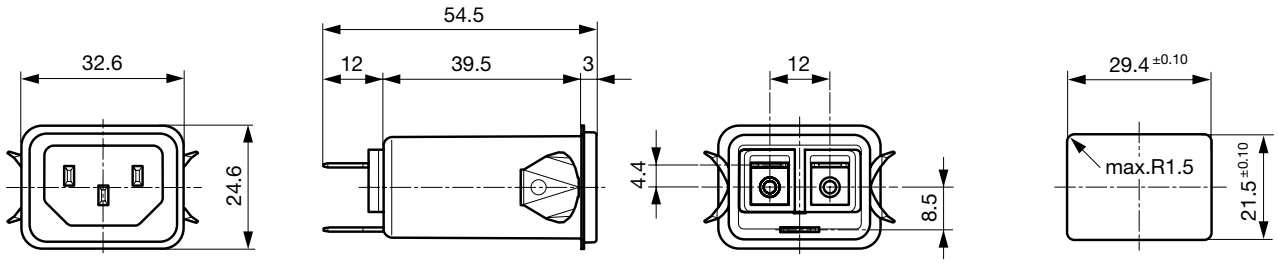


Rear side mounting with pre-formed, threaded holes for M3 screws (panel cutout for rear side mounting)



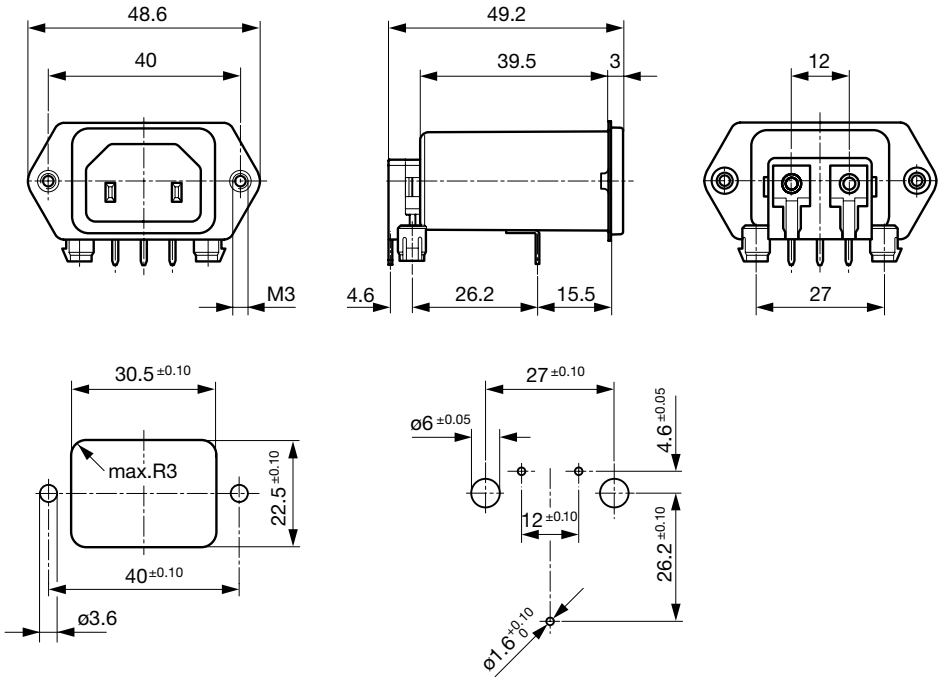
Dimensions for class II version also apply to class I

Snap-in mounting from front side

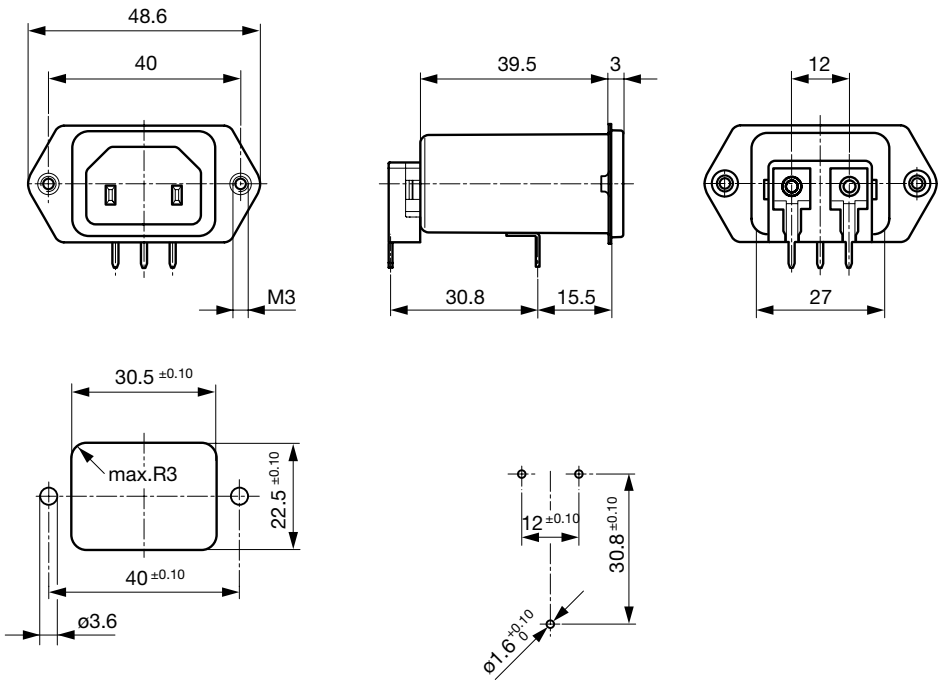


Dimensions for class I version also apply class II

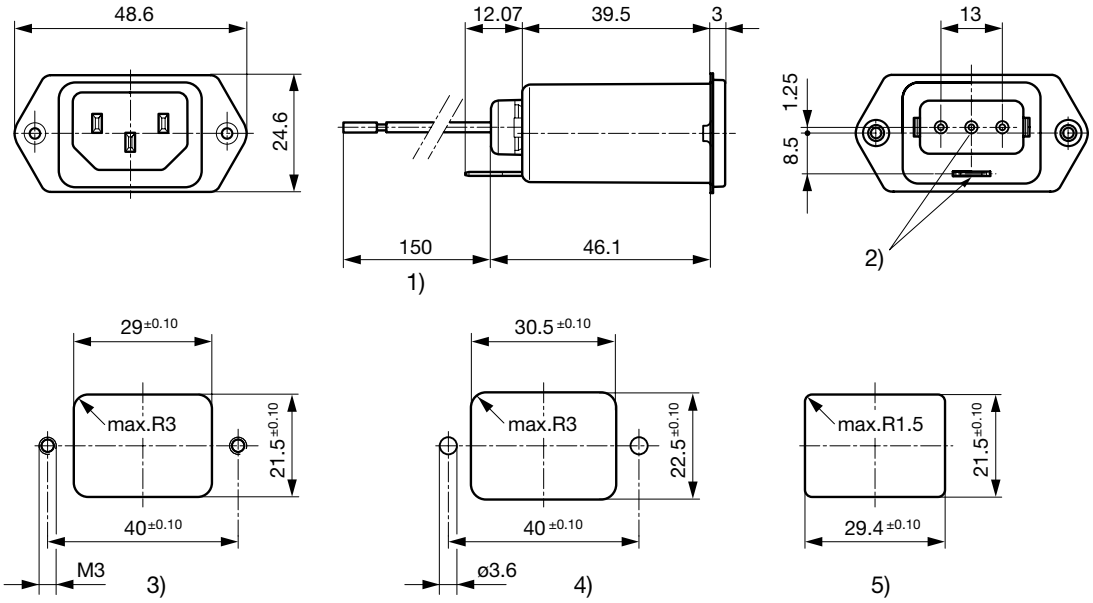
PCB snap-in rear side mounting, protection class II



PCB rear side mounting, protection class II



Screw and snap-in mounting with flexible wire



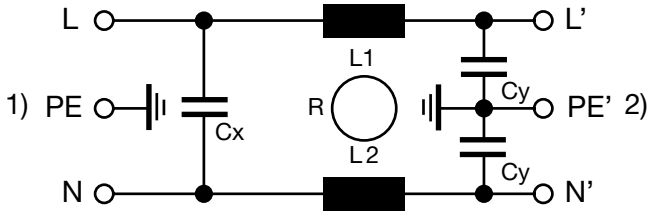
1) Flexible wire, standard length 150 mm or special length on request
2) Nonexistent for protection class II
3) Panel cut-out screw-on version, back-side mounting
4) Panel cut-out screw-on version, front- or back-side mounting
5) Panel cut-out snap-in version, front-side mounting

Technical Data of Filter-Components

Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
1	Standard Version	2 x 12	100	2.2	-
2	Standard Version	2 x 5.2	100	2.2	-
4	Standard Version	2 x 2	100	2.2	-
6	Standard Version	2 x 0.8	100	2.2	-
10	Standard Version	2 x 0.4	100	2.2	-
15	Standard Version	2 x 0.1	100	2.2	-
1	Medical Version (M5)	2 x 12	100	-	1
2	Medical Version (M5)	2 x 5.2	100	-	1
4	Medical Version (M5)	2 x 2	100	-	1
6	Medical Version (M5)	2 x 0.8	100	-	1
10	Medical Version (M5)	2 x 0.4	100	-	1
15	Medical Version (M5)	2 x 0.1	100	-	1
1	Bleed Resistor Version	2 x 12	100	2.2	1
2	Bleed Resistor Version	2 x 5.2	100	2.2	1
4	Bleed Resistor Version	2 x 2	100	2.2	1
6	Bleed Resistor Version	2 x 0.8	100	2.2	1
10	Bleed Resistor Version	2 x 0.4	100	2.2	1
15	Bleed Resistor Version	2 x 0.1	100	2.2	1

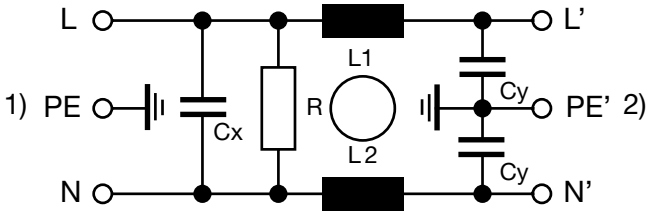
Diagrams

Standard version



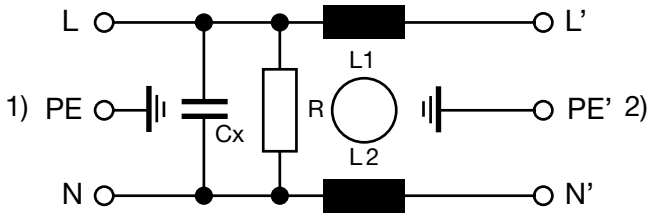
1) Line
2) Load

Bleed resistor version / medical version M80



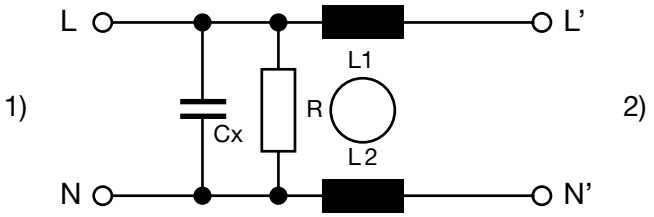
1) Line
2) Load

Medical version M5



1) Line
2) Load

Medical version M5, prot. class II



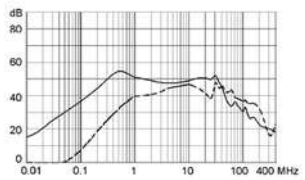
1) Line
2) Load

Attenuation Loss

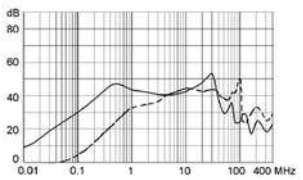
- - - - 50Ω differential mode _____ 50Ω common mode

Standard version

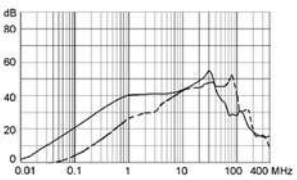
1 A



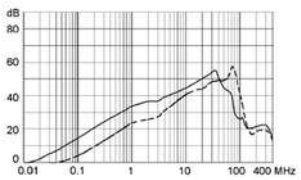
2 A



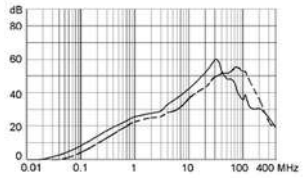
4 A



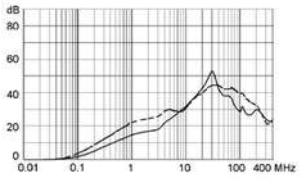
6 A



10 A

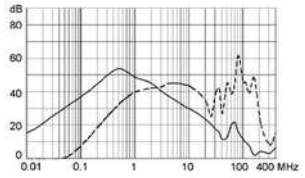


15 A

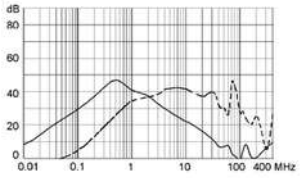


Medical version (M5)

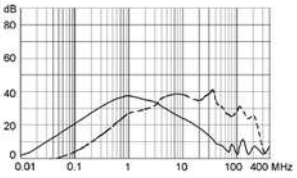
1 A



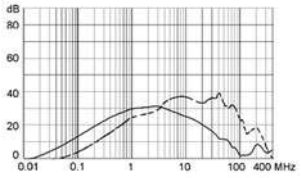
2 A



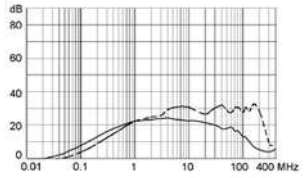
4 A



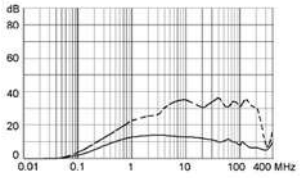
6 A



10 A



15 A



All Variants

Rated Current [A]	Filter-Type	Mounting	Mounting side	Terminal	Protection Class	V-Lock	Order Number
6	Standard Version	Snap-in 2 - 3 mm	Front Side	Flexible wire	I		5120.3034.0
1	Standard Version	Snap-in	Front Side	Quick connect	I		5120.2000.0
2	Standard Version	Snap-in	Front Side	Quick connect	I		5120.2001.0
4	Standard Version	Snap-in	Front Side	Quick connect	I		5120.2003.0
6	Standard Version	Snap-in	Front Side	Quick connect	I		5120.2004.0
10	Standard Version	Snap-in	Front Side	Quick connect	I		5120.2006.0
10	Standard Version	Snap-in	Front Side	Flexible wire and	I		5120.2046.0
15	Standard Version	Snap-in	Front Side	Quick connect	I		5120.2007.0
1	Standard Version	Screw/PCB snap-in	Rear Side	PCB pin and earth	I		5120.5070.0
2	Standard Version	Screw/PCB snap-in	Rear Side	PCB pin and earth	I		5120.5071.0
4	Standard Version	Screw/PCB snap-in	Rear Side	PCB pin and earth	I		5120.5073.0
6	Standard Version	Screw/PCB snap-in	Rear Side	PCB pin and earth	I		5120.5074.0
10	Standard Version	Screw/PCB snap-in	Rear Side	PCB pin and earth	I		5120.5076.0
15	Standard Version	Screw/PCB snap-in	Rear Side	PCB pin and earth	I		5120.5077.0

Rated Current [A]	Filter-Type	Mounting	Mounting side	Terminal	Protection Class	V-Lock	Order Number
1	Standard Version	Screw/PCB	Rear Side	PCB pin and earth	I		5120.4070.0
2	Standard Version	Screw/PCB	Rear Side	PCB pin and earth	I		5120.4071.0
4	Standard Version	Screw/PCB	Rear Side	PCB pin and earth	I		5120.4073.0
6	Standard Version	Screw/PCB	Rear Side	PCB pin and earth	I		5120.4074.0
10	Standard Version	Screw/PCB	Rear Side	PCB pin and earth	I		5120.4076.0
15	Standard Version	Screw/PCB	Rear Side	PCB pin and earth	I		5120.4077.0
1	Standard Version	Screw-on/Rivet	Front-/Rear-Side	Quick connect	I		5120.0000.0
1	Standard Version	Screw-on/Rivet	Front-/Rear-Side	Solder terminals	I		5120.0010.0
2	Standard Version	Screw-on/Rivet	Front-/Rear-Side	Quick connect	I		5120.0001.0
4	Standard Version	Screw-on/Rivet	Front-/Rear-Side	Quick connect	I		5120.0003.0
6	Standard Version	Screw-on/Rivet	Front-/Rear-Side	Quick connect	I		5120.0004.0
10	Standard Version	Screw-on/Rivet	Front-/Rear-Side	Quick connect	I		5120.0006.0
15	Standard Version	Screw-on/Rivet	Front-/Rear-Side	Quick connect	I		5120.0007.0
15	Standard Version	Screw-on/Rivet	Front-/Rear-Side	Flexible wire	I		5120.0057.0
1	Standard Version	Screw with plastic flange	Front Side	Quick connect	I	●	3-101-140
2	Standard Version	Screw with plastic flange	Front Side	Quick connect	I	●	3-101-141
4	Standard Version	Screw with plastic flange	Front Side	Quick connect	I	●	3-101-142
6	Standard Version	Screw with plastic flange	Front Side	Quick connect	I	●	3-101-143
10	Standard Version	Screw with plastic flange	Front Side	Quick connect	I	●	3-100-776
15	Standard Version	Screw with plastic flange	Front Side	Quick connect	I	●	3-101-144
1	Standard Version	Screw	Rear Side	Quick connect	I		5120.1000.0
2	Standard Version	Screw	Rear Side	Quick connect	I		5120.1001.0
4	Standard Version	Screw	Rear Side	Quick connect	I		5120.1003.0
6	Standard Version	Screw	Rear Side	Quick connect	I		5120.1004.0
10	Standard Version	Screw	Rear Side	Quick connect	I		5120.1006.0
10	Standard Version	Screw	Rear Side	Quick connect	I	●	5120.1006.0.21
10	Standard Version	Screw	Rear Side	Flexible wire and	I		5120.1046.0
15	Standard Version	Screw	Rear Side	Quick connect	I		5120.1007.0
1	Medical Version (M5)	Snap-in	Front Side	Quick connect	I		5120.2300.0
2	Medical Version (M5)	Snap-in	Front Side	Quick connect	I		5120.2301.0
4	Medical Version (M5)	Snap-in	Front Side	Quick connect	I		5120.2303.0
6	Medical Version (M5)	Snap-in	Front Side	Quick connect	I		5120.2304.0
10	Medical Version (M5)	Snap-in	Front Side	Quick connect	I		5120.2306.0
15	Medical Version (M5)	Snap-in	Front Side	Quick connect	I		5120.2307.0
4	Medical Version (M5)	Screw/PCB snap-in	Rear Side	PCB pin and earth	I		5120.5373.0
6	Medical Version (M5)	Screw/PCB snap-in	Rear Side	PCB pin and earth	I		5120.5374.0
4	Medical Version (M5)	Screw/PCB	Rear Side	PCB pin and earth	I		5120.4373.0
6	Medical Version (M5)	Screw/PCB	Rear Side	PCB pin and earth	I		5120.4374.0
1	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Quick connect	I		5120.0300.0
2	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Quick connect	I		5120.0301.0
4	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Quick connect	I		5120.0303.0
4	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Flexible wire and	I		5120.0343.0
6	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Quick connect	I		5120.0304.0
10	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Quick connect	I		5120.0306.0
15	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Quick connect	I		5120.0307.0
1	Medical Version (M5)	Screw with plastic flange	Front Side	Quick connect	I	●	3-101-145
2	Medical Version (M5)	Screw with plastic flange	Front Side	Quick connect	I	●	3-101-146
4	Medical Version (M5)	Screw with plastic flange	Front Side	Quick connect	I	●	3-100-794
6	Medical Version (M5)	Screw with plastic flange	Front Side	Quick connect	I	●	3-101-147
10	Medical Version (M5)	Screw with plastic flange	Front Side	Quick connect	I	●	3-101-148
15	Medical Version (M5)	Screw with plastic flange	Front Side	Quick connect	I	●	3-101-149
1	Medical Version (M5)	Screw	Rear Side	Quick connect	I		5120.1300.0
2	Medical Version (M5)	Screw	Rear Side	Quick connect	I		5120.1301.0
4	Medical Version (M5)	Screw	Rear Side	Quick connect	I		5120.1303.0

Rated Current [A]	Filter-Type	Mounting	Mounting side	Terminal	Protection Class	V-Lock	Order Number
6	Medical Version (M5)	Screw	Rear Side	Quick connect	I		5120.1304.0
10	Medical Version (M5)	Screw	Rear Side	Quick connect	I		5120.1306.0
10	Medical Version (M5)	Screw	Rear Side	Quick connect	I	●	5120.1306.0.21
10	Medical Version (M5)	Screw	Rear Side	Flexible wire and	I		5120.1346.0
15	Medical Version (M5)	Screw	Rear Side	Quick connect	I		5120.1307.0
1	Medical Version (M5)	Snap-in	Front Side	Quick connect	II		5120.2300.1
2	Medical Version (M5)	Snap-in	Front Side	Quick connect	II		5120.2301.1
4	Medical Version (M5)	Snap-in	Front Side	Quick connect	II		5120.2303.1
6	Medical Version (M5)	Snap-in	Front Side	Quick connect	II		5120.2304.1
10	Medical Version (M5)	Snap-in	Front Side	Quick connect	II		5120.2306.1
15	Medical Version (M5)	Snap-in	Front Side	Quick connect	II		5120.2307.1
4	Medical Version (M5)	Screw/PCB snap-in	Rear Side	PCB pin and earth	II		5120.5373.1
6	Medical Version (M5)	Screw/PCB snap-in	Rear Side	PCB pin and earth	II		5120.5374.1
10	Medical Version (M5)	Screw/PCB snap-in	Rear Side	PCB pin and earth	II		5120.5376.1
4	Medical Version (M5)	Screw/PCB	Rear Side	PCB pin and earth	II		5120.4373.1
6	Medical Version (M5)	Screw/PCB	Rear Side	PCB pin and earth	II		5120.4374.1
2	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Quick connect	II		5120.0301.1
4	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Quick connect	II		5120.0303.1
6	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Quick connect	II		5120.0304.1
10	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Solder terminals	II		5120.0316.1
1	Medical Version (M5)	Screw	Rear Side	Quick connect	II		5120.1300.1
2	Medical Version (M5)	Screw	Rear Side	Quick connect	II		5120.1301.1
2	Medical Version (M5)	Screw	Rear Side	Solder terminals	II		5120.1311.1
4	Medical Version (M5)	Screw	Rear Side	Quick connect	II		5120.1303.1
6	Medical Version (M5)	Screw	Rear Side	Quick connect	II		5120.1304.1
10	Medical Version (M5)	Screw	Rear Side	Quick connect	II		5120.1306.1
2	Bleed Resistor Version	Snap-in	Front Side	Quick connect	I		5120.2201.0
4	Bleed Resistor Version	Snap-in	Front Side	Quick connect	I		5120.2203.0
6	Bleed Resistor Version	Snap-in	Front Side	Quick connect	I		5120.2204.0
10	Bleed Resistor Version	Snap-in	Front Side	Quick connect	I		5120.2206.0
15	Bleed Resistor Version	Snap-in	Front Side	Quick connect	I		5120.2207.0
15	Bleed Resistor Version	Snap-in	Front Side	Quick connect	I	●	5120.2207.0.21
10	Bleed Resistor Version	Screw-on/Rivet	Front-/Rear-Side	Solder terminals	I		5120.0216.0

Most Popular.

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

- 15 A version only according UL/CSA

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

Variants with plastic flange are all V-Lock versions.

Packaging unit 10 Pcs

Accessories

	Description	
	Wire Harness Wire harness for SCHURTER products	
	Assorted Covers Rear Cover	
		0859.0048
	Cord retaining kits Cord retaining strain relief	
	Flat head, Z	0888.0021
	Flat head, E	4700.0005
	Flat head, G	4700.0007

Mating Outlets/Connectors

	Category / Description	
	Appliance Outlet Overview complete	
	IEC Appliance Outlet F, Screw-on Mounting, Front Side, Solder Terminal	4787
	IEC Appliance Outlet F, Snap-in Mounting, Front Side, Solder or Quick-connect Terminal	4788
	IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder, PCB or Quick-connect Terminal	5091
	Appliance Outlet further types to 5120	
	Connector Overview complete	
	4782 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4782
	4022 Mounting: Power Supply Cord, 3 x 1.5 mm², Screw clamps, Connector: IEC C13	4022
	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
	4012 Mounting: Power Supply Cord, 3 x 1.5 mm², Screw clamps, Connector: IEC C13	4012
	Connector further types to 5120	...

Mating Outlets/Connectors shuttered

	Power Cord Overview complete	
	VAC17KS, North America, V-Lock cord retaining, 3.0 m, Connector C17, SJT 2x18 AWG, black	3-101-794
	VAC17KS, North America, V-Lock cord retaining, 2.0 m, Connector C17, SJT 2x18 AWG, black	6051.2801
	VAC17KS, North America, V-Lock cord retaining, 2.0 m, Connector C17, SJT 2x18 AWG, white	6051.2811
	VAC17KS, United Kingdom, V-Lock cord retaining, 2.0 m, Connector IEC C17, H05VV-F2G1, black	3-101-184
	VAC17KS, Switzerland, V-Lock cord retaining, 2.0 m, Connector IEC C17, H05VV-F2G1, black	3-101-185
	Power Cord further types to 5120	...

13.01.2017

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.