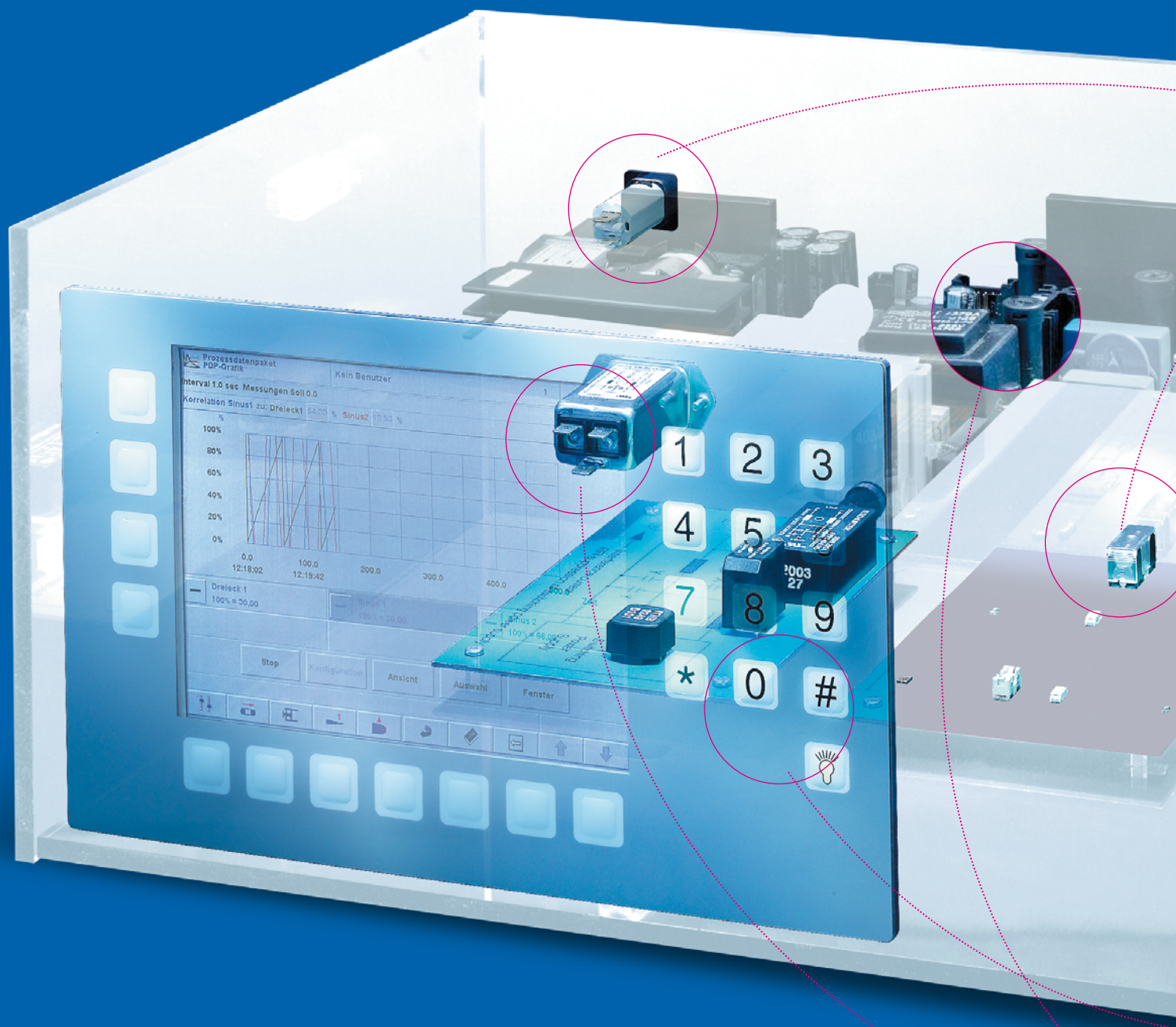


Power Entry Modules without Line Filter



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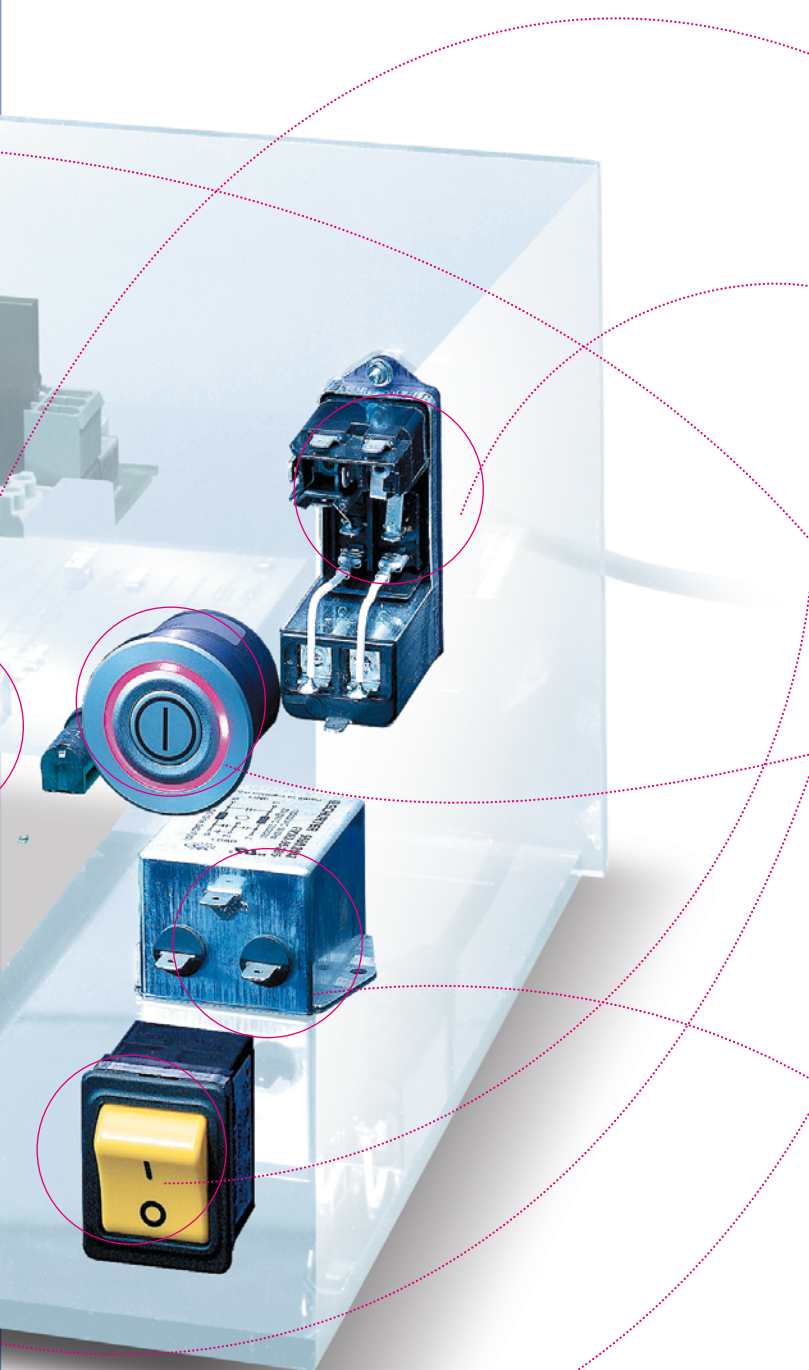


“We rely on reliability and flexibility; that is why we produce your products by our qualified and motivated employee.”

Battista Filippini, CEO Ticomel SA (a member of the SCHURTER Group)

> the Schurter Range at the Glance

SCHURTER is a progressive innovator and manufacturer of fuses, connectors, circuit breakers, input systems, EMC products and manufacturing services for the electronics industry. We focus on components that ensure safe supply of power and make the interface between human and machine easier.



■ fuses

- non resettable fuses
- telecom fuses
- resettable fuses
- fuseholders
- fuseholders blocks & clips

■ connectors

- power entry modules without line filter
- power entry modules with line filter
- appliance couplers
- cord connectors (rewireable)
- distribution units
- cord sets

■ circuit breakers

- thermal (t- and ta-line)
- thermal-magnetic (tm- and as-line)
- undervoltage protection
- power entry modules with CBE

■ input systems

- printmount switches
- frontpanel switches
- public transport switch
- metal line switches
- sensor switches
- membrane keypads
- sensor keypad
- metal line keypads
- touch panel / touch screen
- housing systems and front panels

■ EMC products

- power entry modules with line filter
- 1-phase line filters
- 3-phase line filters
- chokes
- pulse transformers
- power stage driver modules

■ other products

- voltage selector
- test jacks & probes
- indicators
- data & signal, audio, dc/ din connectors

■ EMS

- Electronic Manufacturing Services

Description Approvals	Mounting Style Mounting Side Terminals	Fuseholder Dimension Poles	Line Switch Voltage selector	Appliance-Inlet/-Outlet	Web Reference or Type
MAX. RATED CURRENT 2.5 A					
 IEC Appliance Connector C8 with Line Switch 1-pole UL US CE CCC	- Snap-in or screw-on - Rear-Side - PCB - unwired	-	- Rocker switch - 1 pole	C8  70° C	CMF1, CMF4 20
 IEC Appliance Connector C8 polarized with Line Switch 1-pole UL US CE CCC	- Snap-in or screw-on - Rear-Side - PCB - unwired	-	- Rocker switch - 1 pole	C8 polarized  70° C	CMF2, CMF5 23
 IEC Appliance Connector C6 with Line Switch 1-pole UL US CE CCC	- Snap-in or screw-on - Rear-Side - PCB - unwired	-	- Rocker switch - 1 pole	C6  70° C	CMF3, CMF6 26
 IEC Appliance Connector C6 with Line Switch, 70°C SP SF US CE S new	- Snap-in - Front-Side - Solder/Quick-Connect/PCB	-	- Rocker switch - 1 or 2 pole	C6  70° C	2565-K 29
MAX. RATED CURRENT 10 A					
 IEC Appliance Connector C14 with Line Switch 1-pole UL SP CE	- Snap-in or screw-on - Front-/Rear-Side - Quick-Connect - prewired	-	- Rocker switch - 1 pole	C14  70° C	KEB1 31

	Description Approvals	Mounting Style Mounting Side Terminals	Fuseholder Dimension Poles	Line Switch Voltage selector	Appliance- Inlet/-Outlet	Web Reference or Type
	IEC Appliance Connector C14 with Line Switch 2-pole 	- Snap-in or screw-on - Front-/Rear-Side - Quick-Connect - prewired	-	- Rocker switch - 2-pole	C14  70° C	KEB2 34
 new	IEC Appliance Connector C14 with Line Switch 1- or 2-pole 	- Snap-in or screw-on - Front-/Rear-Side - Quick-Connect - prewired	-	- Rocker switch - 1 or 2 pole	C14  70° C	DC11 37
 new	IEC Appliance Connector with Line Switch C14 70°C 	- Snap-in - Front-Side - Solder or Quick-Connect	-	- Rocker switch - 1 pole	C14  70° C	1074 41
 new	IEC Appliance Connector with Line Switch C14, 70°C 	- Snap-in - Front-Side - Solder/Quick-Connect/Screw	-	- Rocker switch - 1 or 2 pole	C14  70° C	6010-K 43
 new	IEC Appliance Connector C14 with Line Switch 1- or 2-pole 	- Screw-on - Rear-Side - PCB - prewired	-	- Rocker switch - 2-pole	C14  70° C	DC21 45



Description Approvals	Mounting Style Mounting Side Terminals	Fuseholder Dimension Poles	Line Switch Voltage selector	Appliance-Inlet/-Outlet	Web Reference or Type
 IEC Appliance Connector C14 with Fuseholder, Line Switch 2-pole and Voltage Selector 	- Snap-in - Rear-Side - Quick-Connect - prewired	- 5 x 20 - 1 or 2 pole	- Rocker switch - 2-pole - jumper - optional	C14  70° C	GRM1 48
 IEC appliance inlet C14 with recessed circuit breaker TA45, 2-pole 	- Snap-in or screw-on - Front-/Rear-Side - Quick-Connect - prewired	-	- Rocker switch - Circuit Breaker for Equipment - TA45 - 2-pole	C14  70° C	DF11 52
 IEC appliance inlet C14 with circuit breaker TA45, 2-pole    	- Screw-on - Front-/Rear-Side - Quick-Connect - prewired	-	- Rocker switch - Circuit Breaker for Equipment - TA45 - 2-pole	C14  70° C	6145 57
 IEC Appliance Connector C14 with Circuit Breaker, 70°C     	- Snap-in - Front-Side - Solder or Quick-Connect	-	- Rocker switch - Circuit Breaker for Equipment - TA35	C14  70° C	7764 62
 IEC Appliance Connector C14 with Appliance Plug F     	- Sandwich - PCB - prewired	-	-	F  70° C	KP (Outlet) 64



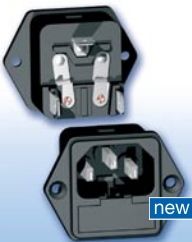
Description Approvals	Mounting Style Mounting Side Terminals	Fuseholder Dimension Poles	Line Switch Voltage selector	Appliance- Inlet/-Outlet	Web Reference or Type
IEC Appliance Connector C14 with Line Switch 1- or 2-pole 	- Sandwich - PCB - prewired	-	- Rocker switch - 1 or 2 pole	C14 70° C	KP (Switch) 68
IEC Appliance Connector C14 with Fusehol- der 1- or 2-pole 	- Sandwich - PCB - prewired	- 5 x 20 - 1 or 2 pole	-	C14 70° C	KP (FH) 72
IEC Appliance Connector C14 with Fusehol- der 1- or 2-pole, 70°C, fits to Felcom 	- Snap-in - Front-Side - Solder	- 5 x 20 - 1 or 2 pole	-	C14 70° C	6250 / 6255 76
Line Switch, fits to Felcom 	- Snap-in - Front-Side - Solder	-	- Rocker switch - 2-pole	-	6050 79
IEC Appliance Connector C14 with Fusehol- der 1- or 2-pole 	- Sandwich - PCB - prewired	- 5 x 20 - optional, 1 or 2 pole	-	C14 70° C	GSF1 81

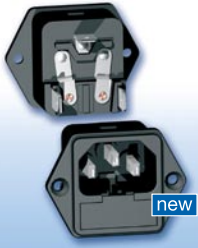




Description Approvals	Mounting Style Mounting Side Terminals	Fuseholder Dimension Poles	Line Switch Voltage selector	Appliance-Inlet/-Outlet	Web Reference or Type
 IEC appliance connector C14 with fuseholder 1- or 2-pole 	- Snap-in - Front-Side - Quick-Connect - prewired	- 5 x 20 - 1 or 2 pole	-	 C14 70° C	GSF2 86
 IEC Appliance Connector C14 with Fuseholder 1- or 2-pole 	- Snap-in or screw-on - Front-/Rear-Side - Quick-Connect - prewired or unwired	- 5 x 20 - 1 or 2 pole	- step - optional	 C14 70° C	KEA 89
 IEC Appliance Connector C14 with Fuseholder 1- or 2-pole 	- Snap-in or screw-on - Front-/Rear-Side - PCB - prewired	- 5 x 20 - 1 or 2 pole	-	 C14 70° C	KEA-Print 93
 IEC Appliance Connector C14 with Fuseholder 1-pole 	- Snap-in or screw-on - Front-/Rear-Side - Solder or Quick-Connect - prewired	- 5 x 20 - 1 pole	-	 C14 70° C	6200 97
 IEC Appliance Connector C18 with Fuseholder 1-pole 	- Snap-in or screw-on - Front-/Rear-Side - Solder or Quick-Connect - prewired	- 5 x 20 - 1 pole	-	 C18 70° C	6202 100

Description Approvals	Mounting Style Mounting Side Terminals	Fuseholder Dimension Poles	Line Switch Voltage selector	Appliance- Inlet/-Outlet	Web Reference or Type
 IEC Appliance Connector C14 with Fuse-holder 1-pole    	- Snap-in or screw-on - Front-/Rear-Side - Solder or Quick-Connect - unwired	- 5 x 20 - 1 pole	-	C14  70° C	6205 103
 IEC Appliance Connector C14 with Fuse-holder 2-pole    	- Snap-in or screw-on - Front-/Rear-Side - Solder or Quick-Connect - prewired	- 5 x 20 - 2-pole	-	C14  70° C	6220 106
 IEC Appliance Connector C14 with Fuse-holder, 70°C      	- Screw-on - Front-/Rear-Side - Solder or Quick-Connect	- 5 x 20 - 1 or 2 pole	-	C14  70° C	1062 109
 IEC Appliance Connector C18 with Fuse-holder, 70°C      	- Screw-on - Front-/Rear-Side - Solder or Quick-Connect	- 5 x 20 - 2-pole	-	C18  70° C	1062-B 111
 IEC Appliance Connector C18 with Fuse-holder, 70°C      	- Screw-on - Front-/Rear-Side - Solder or Quick-Connect	- 5 x 20 - 1 or 2 pole	-	C18  70° C	1066 113

Description Approvals	Mounting Style Mounting Side Terminals	Fuseholder Dimension Poles	Line Switch Voltage selector	Appliance-Inlet/-Outlet	Web Reference or Type
 IEC Appliance Connector C14 with Fuseholder, 70°C UL, R, SP, C, US, D, 14	- Screw-on - Front-/Rear-Side - Solder or Quick-Connect	- 5 x 20 - 1 or 2 pole	-	C14  70° C	1060 115
 new IEC Appliance Connector C18 with Fuseholder, 70°C UL, R, SP, C, US, D, 14	- Screw-on - from front side - Solder or Quick-Connect	- 5 x 20 - 1 pole	-	C18  70° C	1065 117
 IEC Appliance Connector C14 with Fuseholder, 70°C UL, R, SP, C, US, D, 14	- Snap-in - Front-Side - Solder or Quick-Connect - prewired or unwired	- 5 x 20 - 1 or 2 pole	-	C14  70° C	1064 119
 new IEC Appliance Connector C14 with Fuseholder, 70°C SP, C, US, D, 14	- Screw-on - from front side - Solder or Quick-Connect - prewired or unwired	- 5 x 20 - 2-pole	-	C14  70° C	1092 121
 IEC Appliance Connector C14 with Fuseholder 2-pole UL, US, D, 10	- Screw-on - Front-/Rear-Side - Solder or Quick-Connect - prewired	- 5 x 20 - 1 or 2 pole	-	C14  70° C	4707 123

Description Approvals	Mounting Style Mounting Side Terminals	Fuseholder Dimension Poles	Line Switch Voltage selector	Appliance- Inlet/-Outlet	Web Reference or Type
 IEC Appliance Connector C14 with Fuseholder 2-pole     	- Screw-on - Front-Side - Quick-Connect - prewired	- 5 x 20 - 1 or 2 pole	-	C14  70° C	8842/8843 126
 IEC Appliance Plug F with Fuseholder 1-pole   	- Snap-in - Front-Side - Solder - prewired	- 5 x 20 - 1 pole	-	F  70° C	4719 129
 IEC Appliance Connector C14 with Fuseholder, 70°C     	- Screw-on - from front side - Solder or Quick-Connect - prewired or unwired	- 5 x 20 - 2-pole	-	C14  70° C	1092 121
 IEC Appliance Connector C14 with Fuseholder 1- or 2-pole and Voltage Selector     	- Snap-in or screw-on - Front-/Rear-Side - Quick-Connect - prewired or unwired	- 5 x 20 or 6.3 x 32 - 1 or 2 pole	- step optional	C14  70° C	KEC 134
 IEC Appliance Connector C14 or C18 with Voltage Selector and Fuseholder, 70°C     	- Screw-on - from front side - Solder or Quick-Connect	- 5 x 20 - 1 or 2 pole	- Step switch	C14  70° C	1067 139



Description Approvals	Mounting Style Mounting Side Terminals	Fuseholder Dimension Poles	Line Switch Voltage selector	Appliance-Inlet/-Outlet	Web Reference or Type
IEC Appliance Connector C14 with Fuseholder 1- or 2-pole and Voltage Selector 	- Snap-in or screw-on - Front-/Rear-Side - Quick-Connect - prewired or unwired	- 5 x 20 or 6.3 x 32 - 1 or 2 pole	- series-parallel	C14  70° C	KE 141

MAX. RATED CURRENT 16 A



IEC Appliance Coupler C20 with Line Switch, 1- or 2-pole 	- Snap-in or screw-on - Front-/Rear-Side - Quick-Connect - prewired	-	- Rocker switch - 2-pole	C20  70° C	EC11 145
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IEC appliance inlet C20 with circuit breaker 1- or 2-pole 	- Snap-in or screw-on - Front-/Rear-Side - Quick-Connect - prewired	-	- Rocker switch - Circuit Breaker for Equipment - TA45 - 2-pole	C20  70° C	EF11 149
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IEC Appliance Connector C20 with GeräteschutzLine Switch, 70°C 	- Snap-in - Front-Side - Solder or Quick-Connect	-	-	C20  70° C	1624-K 154
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For customer specific solutions, please contact us. www.schurter.com/contact
 General Product Information see IEC Connector page [218](#)



Maximum Functionality within Minimal Dimensions

The latest power entry modules, series DD11 and DD12, are extremely compact and robustly designed. The excellent performance makes them suitable for nearly any application using detachable power.

The DD11 is equipped with multiple functions including an appliance connector, switch and fuseholder. The DD12 combines the same functions and additionally includes a line filter. The fuseholder is available as 1- or 2-pole version. The switch - with or without illumination - is designed for inrush currents up to 100 A. The filtered version has a broad metal flange insuring ideal filtering and shielding.



Appliance Connector Shuttered and Protected

The compact and shuttered power outlet 4719 integrates a fuse and a neo indicator. The element is ideal to be used in distribution units, in dusty environment or in application with increased requirements against contact with life parts.

In distribution units the integrated fuseholder assures that the power supply of the other attached appliances will not be interfered if an output fails due to an over current. The optional neon indicates the correct operation stage of the power line.

The shutters increase the protection against unintended contact to life parts and prevents the entrance of dust. The product is herewith ideally suitable to be used in medical devices according IEC 606001-1 or in applications to be used by children.

Description Approvals	Mounting Style Mounting Side Terminals	Fuseholder Dimension Poles	Line Switch Voltage selector	Appliance-Inlet/-Outlet	Web Reference or Type
MAX. RATED CURRENT 6 A					
 IEC Appliance Connector C14 with Fuseholder, Bowden-Line Switch 2-pole and Voltage Selector      	- Snap-in or screw-on - Front-/Rear-Side - Quick-Connect - partially wired	- 5 x 20 or 6.3 x 32 - 1 or 2 pole	- Switch for bow-dencable - 2-pole - series-parallel	C14  70° C	KG-Bowden-cable 156
 IEC Appliance Connector C14 with Fuseholder, Bowden-Line Switch 2-pole and Voltage Selector     	- Snap-in or screw-on - Front-/Rear-Side - Quick-Connect - prewired	- 5 x 20 or 6.3 x 32 - 1 or 2 pole	- Switch for bow-dencable - 2-pole - step - optional	C14  70° C	KD-Bowden-cable 160
MAX. RATED CURRENT 10 A					
 IEC Appliance Connector C14 with Fuseholder and Line Switch 1- or 2-pole   	- Snap-in - Front-Side - Quick-Connect - prewired	- 5 x 20 - 1 or 2 pole	- Rocker switch - 2-pole	C14  70° C	KM 164
 Inlet for front or rear side mounting, fuse 1-1/2-pole, line switch 2-pole   new	- Screw-on - Front-/Rear-Side - Quick-Connect - prewired	- 5 x 20 - 1 or 2 pole	- Rocker switch - 2-pole	C14  70° C	DD11 168
 Inlet for PCB mounting, fuse 1-1/2-pole, line switch 2-pole   new	- Screw-on - Rear-Side - PCB - prewired	- 5 x 20 - 1 or 2 pole	- Rocker switch - 2-pole	C14  70° C	DD21 172

Description Approvals	Mounting Style Mounting Side Terminals	Fuseholder Dimension Poles	Line Switch Voltage selector	Appliance- Inlet/-Outlet	Web Reference or Type
 IEC Appliance Connector C14 with Appliance Plug F, Line Switch 2-pole and Voltage Selector    	- Snap-in - Rear-Side - Quick-Connect - prewired	-	- Rocker switch - 1 or 2 pole - jumper - optional	 70° C	PMM 176
 IEC Appliance Connector C14 or C18 with Line Switch and Fuseholder, 70°C     	- Screw-on - Front-/Rear-Side - Solder or Quick-Connect	- 1 or 2 pole	- Rocker switch - 2-pole	 70° C	6765 179
 IEC Appliance Connector C14 or C18 with Line Switch and Fuseholder, 70°C     	- Snap-in or screw-on - Front-/Rear-Side - Solder or Quick-Connect	- 1 pole	- Rocker switch - 1 or 2 pole	 70° C	6762 181
 IEC Appliance Connector C14 with Fuseholder, Line Switch 1- or 2-pole and Voltage Selector     	- Snap-in or screw-on - Front-/Rear-Side - Quick-Connect - prewired	- 5 x 20 or 6.3 x 32 - 1 or 2 pole	- Rocker switch - 2-pole - step - optional	 70° C	KD 183
 IEC Appliance Connector C14 with Fuseholder, Line Switch 1- or 2-pole and Voltage Selector   	- Snap-in or screw-on - Front-/Rear-Side - Quick-Connect - partially wired	- 5 x 20 or 6.3 x 32 - 1 or 2 pole	- Rocker switch - 2-pole - series-parallel	 70° C	KG 187



new



new



Description Approvals	Mounting Style Mounting Side Terminals	Fuseholder Dimension Poles	Line Switch Voltage selector	Appliance-Inlet/-Outlet	Web Reference or Type
IEC Appliance Connector C14, with Line Switch, Voltage Selector and Fuseholder, 70°C UL, VDE, SP, SB-C-USA	- Screw-on - Front-/Rear-Side - Solder or Quick-Connect	- 5 x 20 - 1 or 2 pole	- Rocker switch - 2-pole - Step switch	C14 70° C	6766 191
IEC Appliance Connector C14, with Line Switch, Voltage Selector and Fuseholder, 70°C SP, SB-C-USA	- Screw-on - Front-Side - Solder or Quick-Connect	- 5 x 20 - 1 or 2 pole	- Rocker switch - 2-pole - Step switch	C14 70° C	6788 193
IEC Appliance Connector C14 with modular extended Components VDE, SP, S, O/E, S	- Snap-in - Front-Side - Solder or Quick-Connect - prewired	- 5 x 20 - 1 or 2 pole	- Rocker switch - 2-pole	C14 70° C	Felcom 64 195

For customer specific solutions, please contact us. www.schurter.com/contact
General Product Information see IEC Connector page 218



Compact Power Entry Modules for PCB-Mounting

The DC21 with IEC-Connector and 1-or 2-pole rocker switch is ideally suitable for compact mounting styles. The product be contacted directly to the board and additionally be fixed with screws.

The illuminated switch suits perfectly for 1 unit rack components as e.g. switches and routers.



Known as Technology Leader

“The customer contacted us first – because they were looking for a new technology.”

Ian McCutcheon

IEC Appliance Connector C8 with Line Switch 1-pole



CMF1

C8



70° C



Description

- Panel Mount:
Screw-on mounting on PCB, from top or bottom
- 2 Functions:
Appliance Inlet Protection class II, Line switch 1-pole
- For PCB mounting
- Alternative: polarized version or protection class I [CMF2](#), [CMF5](#); [CMF3](#), [CMF6](#)

Characteristics

- Easy mounting with center bolt and snapper or screwed on PCB or housing
- Electrical connection done on the PCB
- Bi-positioning of the switch from left or right side, Standard CMF with switch on right side
- With or without rear-side insulation cover
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Line switch with other rocker marking
- Line switch on left of inlet

References

[General Product Information](#)

Weblinks

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

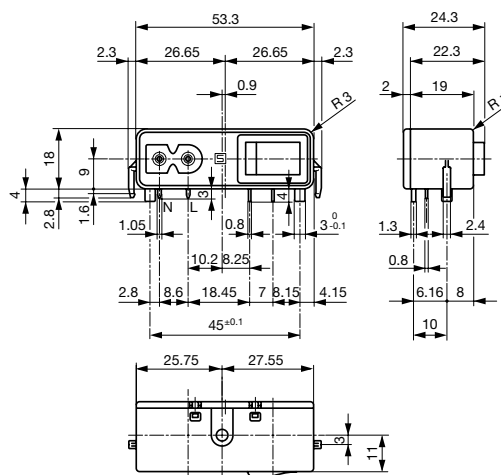
Technical Data

Ratings IEC	2.5 A / 250 VAC; 50 Hz
Ratings UL/CSA	6 A / 125 VAC; 60 Hz
Dielectric Strength	> 2.3 kVAC between L-N > 2.8 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class II acc. to IEC 61140
Terminal	PCB 1.6 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C8 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 2.5 A, Protection class II
Line Switch	Rocker switch 1 pole, non-illuminated, acc. to IEC 61058-1 Technical details

Dimensions

Length | 53.3 mm

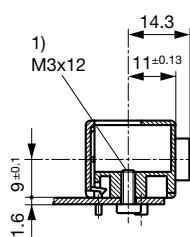


with insulation cover

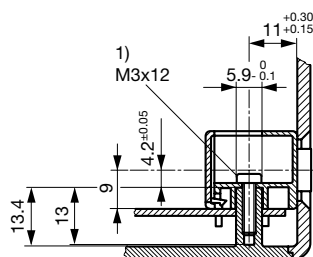
The size of the mounting cut-out can be selected as required.

Fixation on PCB or housing from below

Fixation on PCB or housing from above



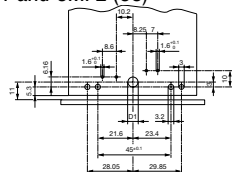
1) self tapping screw



1) self tapping screw

Drilling diagrams

CMF1 and CMF2 (C8)



d1 = 6.2 mm mounting from above

d1 = 3.6 mm mounting from below

PC Board 1.6 mm

Dimensions without tolerance:

≤ 15 = ± 0.05 / > 15 = ± 0.10

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Standard CMF with switch on right side

Appliance Inlet	Mounting side	Cover	Ground terminal	Ground terminal direction	Order Number
C8	from below		-	-	CMF1.1031.12
C8	from below	●	-	-	CMF1.1131.12
C8	from top		-	-	CMF1.1011.12
C8	from top	●	-	-	CMF1.1111.12

Packaging unit

50 Pcs

Mating Outlets/Connectors

Category / Description

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Plug C7, straight 70°C	2510
Power Cord with IEC Appliance Plug C7, angled, 70°C	2511
Power Cord with IEC Appliance Plug C7, angled, 70°C	2514
Power Cord with IEC Appliance Plug C7, straight 70°C	4810

IEC Appliance Connector C8 polarized with Line Switch 1-pole



CMF2

C8 polarized



70° C

**Description**

- Panel Mount:
Screw-on mounting on PCB, from top or bottom
- 2 Functions:
Appliance Inlet Protection class II, Line switch 1-pole
- For PCB mounting
- Alternative: unpolarized version or protection class I [CMF1](#), [CMF4](#); [CMF3](#), [CMF6](#)

Characteristics

- Easy mounting with center bolt and snapper or screwed on PCB or housing
- Electrical connection done on the PCB
- Bi-positioning of the switch from left or right side, Standard CMF with switch on right side
- With or without rear-side insulation cover
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Line switch with other rocker marking
- Line switch on left of inlet

References

[General Product Information](#)

Weblinks

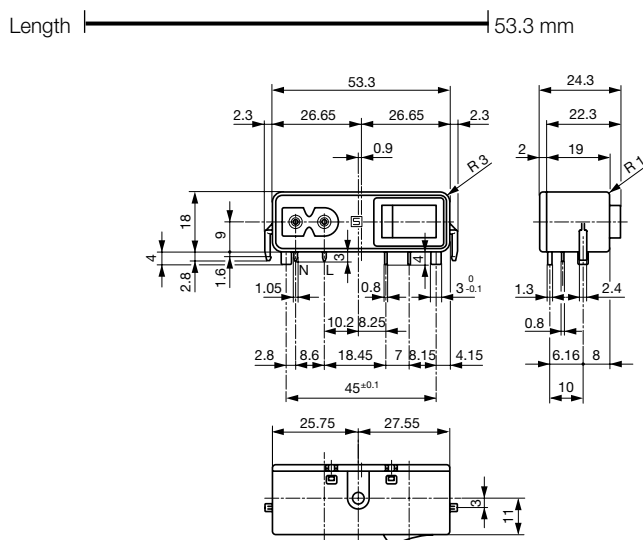
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Ratings IEC	2.5 A / 250 VAC; 50 Hz
Ratings UL/CSA	6 A / 125 VAC; 60 Hz
Dielectric Strength	> 2.3 kVAC between L-N > 2.8 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class II acc. to IEC 61140
Terminal	PCB 1.6 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C8 polarized following IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 2.5 A, Protection class II
Line Switch	Rocker switch 1 pole, non-illuminated, acc. to IEC 61058-1 Technical details

Dimensions

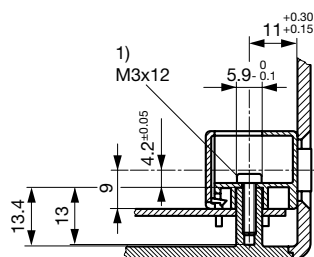
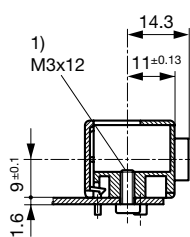


with insulation cover

The size of the mounting cut-out can be selected as required.

Fixation on PCB or housing from below

Fixation on PCB or housing from above

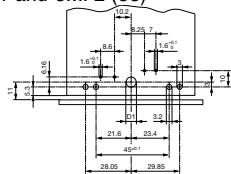


1) self tapping screw

1) self tapping screw

Drilling diagrams

CMF1 and CMF2 (C8)



d1 = 6.2 mm mounting from above

d1 = 3.6 mm mounting from below

PC Board 1.6 mm

Dimensions without tolerance:

≤ 15 = ± 0.05 / > 15 = ± 0.10

Variants

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

Appliance Inlet	Mounting side	Cover	Ground terminal	Ground terminal direction	Order Number
C8 polarized	from below		-	-	CMF2.1031.12
C8 polarized	from below	●	-	-	CMF2.1131.12
C8 polarized	from top		-	-	CMF2.1011.12
C8 polarized	from top	●	-	-	CMF2.1111.12

Packaging unit

50 Pcs

Mating Outlets/Connectors

Category / Description



Power Supply or Interconnection Cord

Power Cord with IEC Appliance Connector C7, Line Plug North America, 70°C

CS02.0221.150

IEC Appliance Connector C6 with Line Switch 1-pole



CMF3



Description

- Panel Mount:
Screw-on mounting on PCB, from top or bottom
- 2 Functions:
Appliance Inlet Protection class I, Line switch 1-pole
- For PCB mounting
- Alternative: protection class II version [CMF1](#), [CMF4](#); [CMF2](#), [CMF5](#)

Characteristics

- Easy mounting with center bolt and snapper or screwed on PCB or housing
- Electrical connection done on the PCB
- Bi-positioning of the switch from left or right side, Standard CMF with switch on right side
- With or without rear-side insulation cover
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Line switch with other rocker marking
- Line switch on left of inlet

References

[General Product Information](#)

Weblinks

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

Technical Data

Ratings IEC	2.5 A / 250 VAC; 50 Hz
Ratings UL/CSA	6 A / 125 VAC; 60 Hz
Dielectric Strength	> 2.3 kVAC between L-N > 2.8 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
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	PCB 1.6 mm Additional ground terminal
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C6 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 2.5 A, Protection class I
Line Switch	Rocker switch 1 pole, non-illuminated, acc. to IEC 61058-1 Technical details

Length |-----| 53.3 mm

Appliance Inlet	Mounting side	Cover	Ground terminal	Ground terminal direction	Order Number
C6	from top	●	Solder terminal 2.8 x 0.8 mm	angled to pin axis	CMF3.1113.12
C6	from top	●	Solder terminal 2.8 x 0.8 mm	straight	CMF3.1114.12

Packaging unit 50 Pcs

Mating Outlets/Connectors

Category / Description



Power Supply or Interconnection Cord

Power Cord with IEC Appliance Plug C5, angled, 70°C	2512
Power Cord with IEC Appliance Plug C5, straight, 70°C	2530

IEC Appliance Connector C6 with Line Switch, 70°C

new



Snap-In Version

**Description**

- Panel Mount:
Snap-in version, from front side
- Appliance Inlet, Pin temperature 70 °C, Protection class I,
- Line switch 1- or 2-pole

Approvals

- VDE License Number: 40002273
- CSA License Number: 1020538

Characteristics

- Line switch non-illuminated or illuminated

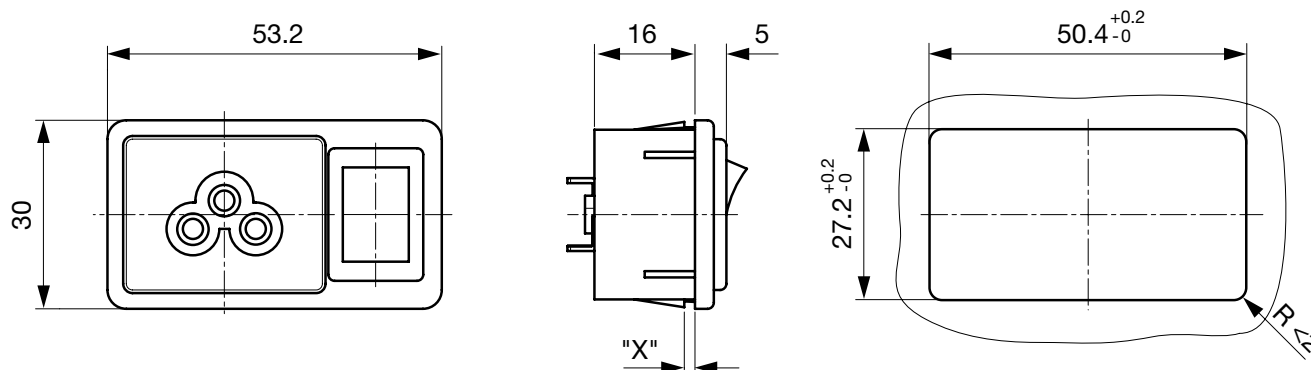
References
[General Product Information](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Ratings IEC	2.5A / 250VAC; 50Hz
Ratings UL/CSA	2.5A / 250VAC; 60Hz
Dielectric Strength	> 3kVAC between L-N > 1.5kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Panel Thickness s	Snap-in: 1 / 1.5 / 2 / 2.5 / 3 mm
Material: Housing	UL 94V-0

Appliance-Inlet/-Outlet	C6 acc. to IEC/EN 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 2.5A, Protection class I
Line Switch	Rocker switch 1 or 2 pole, non-illuminated or illuminated black, acc. to IEC 61058-1 Technical details

Dimensions

Length | 53.2 mm



Dimension "X" please ref. to table order code

Packaging unit

50 Pcs

Mating Outlets/Connectors

Category / Description



Power Supply or Interconnection Cord

Power Cord with IEC Appliance Plug C5, angled, 70°C	2512
Power Cord with IEC Appliance Plug C5, straight, 70°C	2530

IEC Appliance Connector C14 with Line Switch 1-pole



C14

 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 switch 1-pole
- Quick connect terminals 4.8 x 0.8 mm
- Alternative: version with line filter [KFB1](#)
- We recommend for new applications the new type [DC11](#)

Approvals

- VDE License Number: 40021941
- UL License Number: E96454
- CSA License Number: 38456

Characteristics

- All single elements are already wired
- Unwired versions available on request
- Line switch non-illuminated or illuminated

Other versions on request

- Unwired versions
- Line switch with other rocker marking
- For protection class II

References

[General Product Information](#)

Weblinks

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

Technical Data

Ratings IEC	10A / 250VAC; 50Hz
Ratings UL/CSA	10A / 250VAC; 60Hz
Dielectric Strength	> 3kVAC between L-N > 4kVAC between L/N-PE (1 min/50Hz)
Allowable Operation Temp.	-25°C to 70°C
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 terminals 4.8 x 0.8 mm
Panel Thickness s	Screw-on: max 6mm Mounting screw torque max 0.5Nm Snap-in: 1.5 / 2 / 2.5 mm
Material: Housing	Thermoplastic, black, UL 94V-0

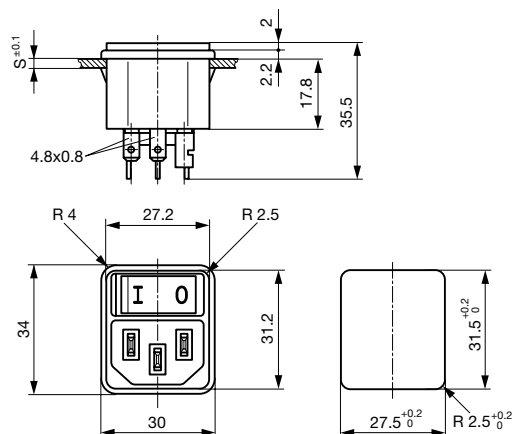
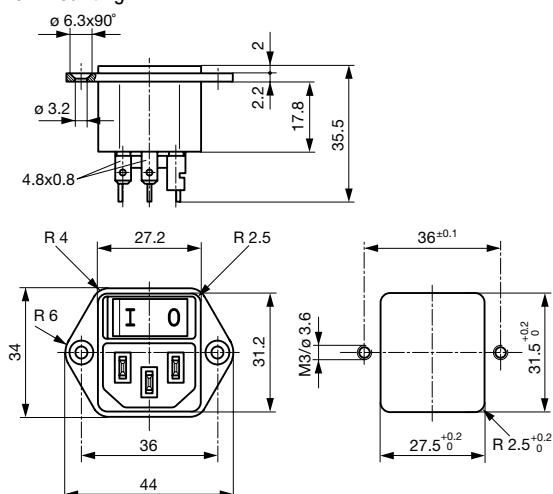
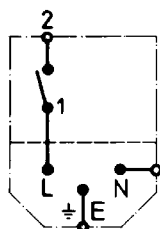
Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection class I
Line Switch	Rocker switch 1 pole, non-illuminated or illuminated red, acc. to IEC 61058-1 Technical details

Dimensions

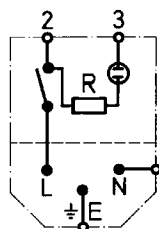
Screw-on mounting

Length | 44 mm

Snap-in mounting

**Diagrams**

non-illuminated



illuminated

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

with internal connections

Panel mounting	Panel Thickness s [mm]	Illumination	Color	Rated voltage 250 [V]	Rated voltage 125 [V]	Order Number
Screw-on	-	-	-	-	-	4302.0001
Screw-on	-	●	red	-	125	4302.0121
Screw-on	-	●	red	250	-	4302.0101
Snap-in	1.5	-	-	-	-	4302.0002
Snap-in	2	-	-	-	-	4302.0003
Snap-in	2.5	-	-	-	-	4302.0004
Snap-in	1.5	●	red	-	125	4302.0122
Snap-in	1.5	●	red	250	-	4302.0102
Snap-in	2	●	red	-	125	4302.0123
Snap-in	2	●	red	250	-	4302.0103
Snap-in	2.5	●	red	-	125	4302.0124
Snap-in	2.5	●	red	250	-	4302.0104

Packaging unit

50 Pcs

Accessory

Description

Assorted Covers
Rear Cover

0859.0047

0859.0075

4311.9403

4311.9404

Cord retaining kits
Cord retaining strain relieve

Flat head, A

4700.0001

Countersunk, B

4700.0002

Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal

4787

IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal

4788

IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal

5091

IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal

5092

Connector



IEC cord connector C15, rewirable, straight

0101

IEC cord connector C15A, rewirable, straight

0102

IEC cord connector C15A, rewirable, straight

0102-G

IEC cord connector C15A, rewirable, angled

0112

IEC cord connector C13, rewirable, angled

4012

IEC cord connector C13, rewirable, angled

4013

IEC cord connector C13, rewirable, straight

4020

IEC cord connector C13, rewirable, straight

4021

IEC cord connector C13, rewirable, straight

4022

IEC cord connector C13, rewirable, angled

4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C

0311

Power Cord with IEC Appliance Connector C13, angled, 70°C

3011

Power Cord with IEC Appliance Connector C13, angled, 70°C

3012

Power Cord with IEC Appliance Connector C13, angled, 70°C

3013

Power Cord with IEC Appliance Connector C13, 70°C

3020

Power Cord with IEC Appliance Connector C13, straight, 70°C

3027

Power Cord with IEC Appliance Connector C13, straight, 70°C

302U

Power Cord with IEC Appliance Connector C13, straight, 70°C

3030

Power Cord with IEC Appliance Connector C13, angled, 70°C

311L

Power Cord with IEC Appliance Connector C13, angled, 70°C

312L

...

IEC Appliance Connector C14 with Line Switch 2-pole



C14



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 switch 2-pole
- Quick connect terminals 4.8 x 0.8 mm
- Alternative: version with line filter [KFB2](#)
- We recommend for new applications the new type [DC11](#)

Approvals

- VDE License Number: 40021945
- UL License Number: E96454
- CSA License Number: 38456

Characteristics

- All single elements are already wired
- Unwired versions available on request
- Line switch non-illuminated or illuminated

Other versions on request

- Unwired versions
- Line switch with other rocker marking
- For protection class II

References

[General Product Information](#)

Weblinks

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

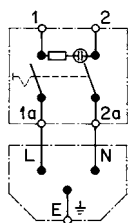
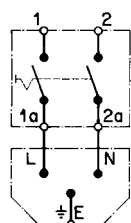
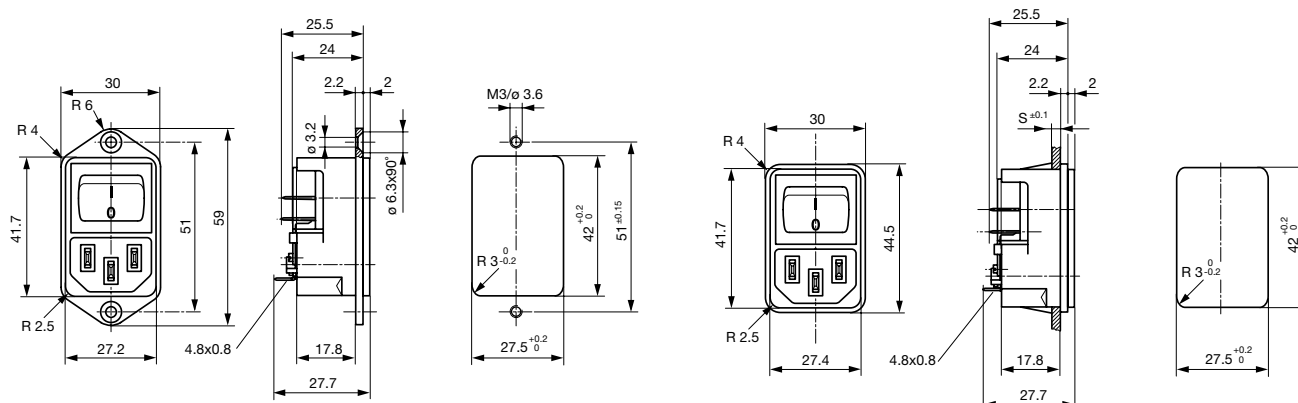
Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	15 A / 250 VAC; 60 Hz
Dielectric Strength	> 2.5 kVAC between L-N > 3 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
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 terminals 4.8 x 0.8 mm
Panel Thickness s	Screw-on: max 6 mm Mounting screw torque max 0.5 Nm Snap-in: 1.5 / 2 / 2.5 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Line Switch	Rocker switch 2-pole, non-illuminated or illuminated, acc. to IEC 61058-1 Technical details

Screw-on mounting

Snap-in mounting



illuminated

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

with internal connections

Panel mounting	Panel Thickness s [mm]	Illumination	Rated voltage 125/250 [V]	Color	Order Number
Screw-on	-	●	250	red	4302.2101
Screw-on	-	●	250	green	4302.2141
Screw-on	-		-	-	4302.2001
Snap-in	1.5	●	250	red	4302.2102
Snap-in	1.5	●	250	green	4302.2142
Snap-in	2	●	250	red	4302.2103
Snap-in	2	●	250	green	4302.2143
Snap-in	2.5	●	250	red	4302.2104
Snap-in	2.5	●	250	green	4302.2144
Snap-in	1.5		-	-	4302.2002
Snap-in	2		-	-	4302.2003
Snap-in	2.5		-	-	4302.2004

50 Pcs

Accessory

Description



Assorted Covers
Rear Cover

0859.0075



Cord retaining kits
Cord retaining strain relieve

Flat head, A

4700.0001

Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C14 with Line Switch 1- or 2-pole

new



C14

 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 switch 1- or 2-pole
- Quick connect terminals 4.8 x 0.8 mm
- Alternative: version with line filter [DC12](#)
- Substitute for type [KEB1](#); [KEB2](#) Meets the glow wire test acc. IEC60335-1 edition 4

Approvals

- VDE License Number: 40007009
- UL License Number: E96454

Characteristics

- Ultra-compact design
- All single elements are already wired
Unwired versions available on request
- Line switch non-illuminated or illuminated
- Ideal for application with high transient loads
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Snap-in, panel thickness 1 and 3 mm
- Unwired versions
- Solder terminals
- Line switch with other rocker marking
- Line switch 1-pole
- For protection class II

References

[General Product Information](#)

Weblinks

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

Technical Data

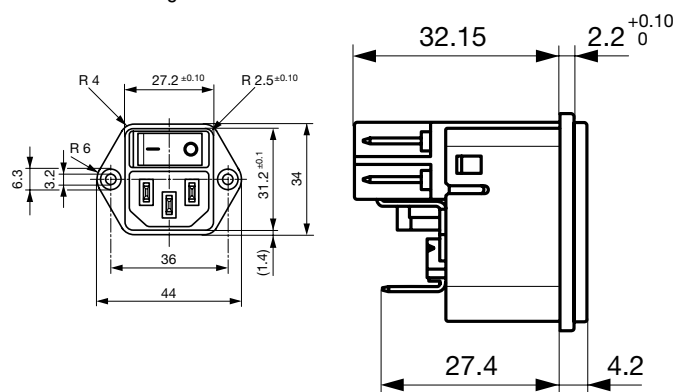
Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	15 A / 250 VAC; 50/60 Hz ¹⁾
Dielectric Strength	> 2.5 kVAC between L-N > 3 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Quick connect terminals 4.8 x 0.8 mm
Panel Thickness s	Screw-on: max 6 mm Mounting screw torque max 0.5 Nm Snap-in: 1.5 / 2 / 2.5 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Line Switch	Rocker switch 1 or 2 pole, non-illuminated or illuminated, acc. to IEC 61058-1 Technical details

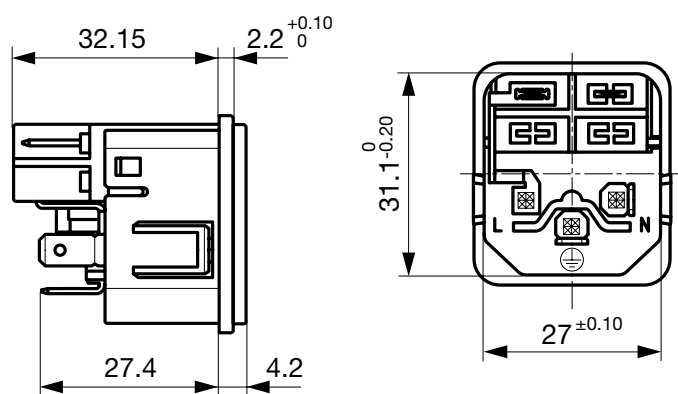
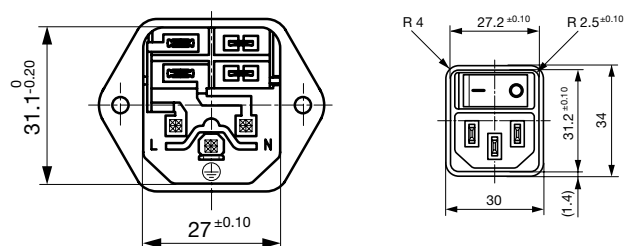
1) Standard version 12 A / special version 15 A

Dimensions

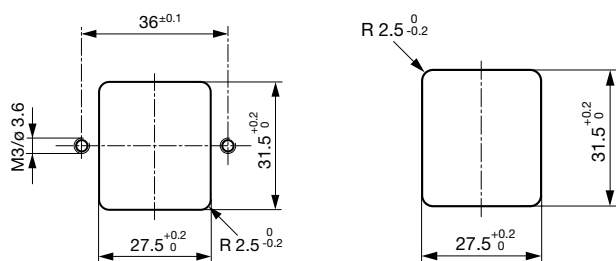
Screw-on mounting



Snap-in mounting

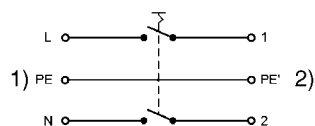


Diagrams

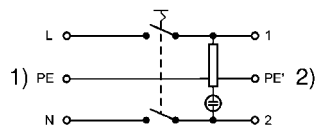


Diagrams

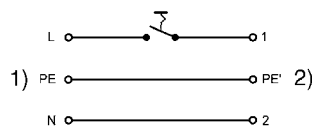
Line switch non-illuminated 2-pole

1) Line
2) Load

Line switch illuminated 2-pole

1) Line
2) Load

Line switch non-illuminated 1-pole

1) Line
2) Load

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

with internal connections

Rated Current UL [A]	Panel mounting	Panel Thickness s [mm]	Line Switch	Illumination	Color	Order Number
12	Screw-on	-	2-pole	●	red	DC11.0021.001
12	Screw-on	-	2-pole	●	green	DC11.0031.001
12	Screw-on	-	1 pole		-	DC11.0001.003
12	Screw-on	-	2-pole		-	DC11.0001.001
12	Snap-in	1.5	2-pole	●	red	DC11.0021.201
12	Snap-in	2	2-pole	●	red	DC11.0021.301
12	Snap-in	2.5	2-pole	●	red	DC11.0021.401
12	Snap-in	1.5	2-pole	●	green	DC11.0031.201
12	Snap-in	2	2-pole	●	green	DC11.0031.301
12	Snap-in	2.5	2-pole	●	green	DC11.0031.401
12	Snap-in	1.5	1 pole		-	DC11.0001.203
12	Snap-in	2	1 pole		-	DC11.0001.303
12	Snap-in	2.5	1 pole		-	DC11.0001.403
12	Snap-in	1.5	2-pole		-	DC11.0001.201
12	Snap-in	2	2-pole		-	DC11.0001.301
12	Snap-in	2.5	2-pole		-	DC11.0001.401

All variants according VDE (ENEC 10) approved for 10 A

Packaging unit

50 Pcs

Accessory

Description

Assorted Covers
Rear Cover

0859.0047

4311.9403

Cord retaining kits
Cord retaining strain relieve

Flat head, A

4700.0001

Countersunk, B

4700.0002

Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal

4787

IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal

4788

IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal

5091

IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal

5092



Connector

IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector with Line Switch C14 70°C



Snap-In Version

**Description**

- Panel Mount:
Snap-in version, from front side, Appliance Inlet, Protection class I, Line switch 1-pole
- Solder terminals or quick connect terminals

Approvals

- VDE License Number: 40017874
- UL License Number: E88880
- CSA License Number: 1084381

Characteristics

- Line switch non-illuminated

References

[General Product Information](#)

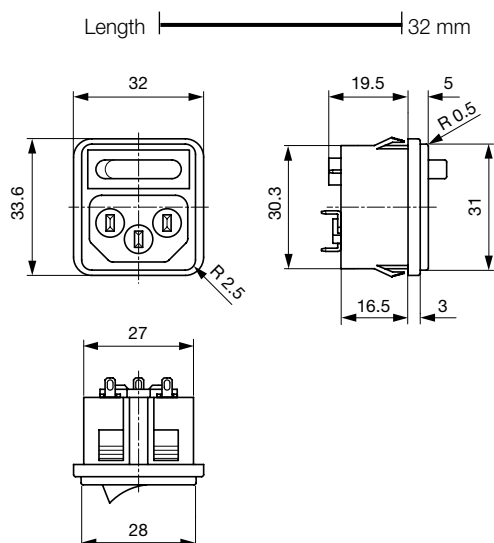
Weblinks

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

Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	6 A / 250 VAC; 60 Hz
Dielectric Strength	> 3 kVAC between L-N > 1.5 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals
Panel Thickness s	Snap-in 1.0 - 1.5 / 2.0 - 2.5 mm
Material: Housing	black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Line Switch	Rocker switch 1 pole, non-illuminated black, acc. to IEC 61058-1 Technical details

Dimensions

Wandstärke panel thickness	Ausbruchmaße panel cutout
1 - 1.5 mm	31.5 ^{+0.2} x 27.2 ^{+0.2} mm
2 - 2.5 mm	31.5 ^{+0.2} x 27.2 ^{+0.2} mm

length of the terminal please find at the order code configuration table

Packaging unit

50 Pcs

Accessory

Description



Assorted Covers
Rear Cover

Mating Outlets/Connectors

Category / Description

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector with Line Switch C14, 70°C

new



C14

 70° C

**Description**

- Panel Mount:

Snap-in version, from front side Appliance Inlet, Protection class I, Line switch 1- or 2-pole

Approvals

- UL License Number: E45115
 - CSA License Number: 1406497

Characteristics

- Line switch non-illuminated or illuminated

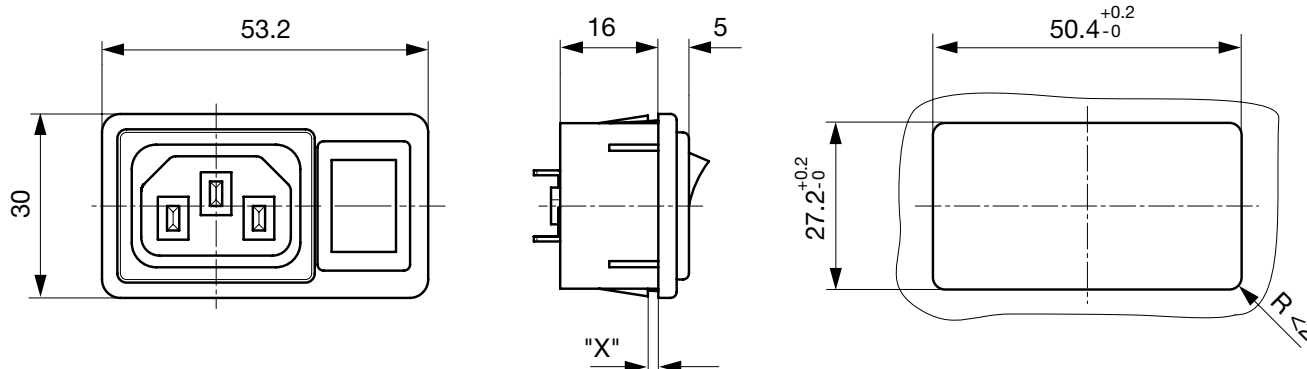
References[General Product Information](#)**Weblinks**[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)**Technical Data**

Ratings IEC	10 A / 250VAC; 50Hz
Ratings UL/CSA	15 A / 250VAC; 60Hz
Dielectric Strength	> 3kVAC between L-N > 1.5kVAC between L/N-PE (1 min/50Hz)
Allowable Operation Temp.	-25°C to 70°C
Degree of Protection	from front side IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Panel Thickness s	Snap-in: 1 / 1.5 / 2 / 2.5 / 3 mm
Material: Housing	UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Line Switch	Rocker switch 1 or 2 pole, non-illuminated or illuminated black, acc. to IEC 61058-1 Technical details

Dimensions

Length | 53.2 mm



Dimension "X" please ref. to table order code

Packaging unit

50 Pcs

Mating Outlets/Connectors

Category / Description



Appliance Outlet

IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092



Connector

IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C14 with Line Switch 1- or 2-pole

new



Screw-On Version



Screw-On Version

C14



70° C

**Description**

- Panel Mount:
Screw-on mounting on PCB/ from rear-side
- 2 Functions:
Appliance Inlet Protection class I, Line switch 2-pole
- For PCB mounting
- Alternative: version with line filter [DC22](#)
- Substitute for type [KP \(Switch\)](#)

Approvals

- VDE License Number: 40007009
- UL License Number: E96454

Characteristics

- Ultra-compact design
- All single elements are already wired
Unwired versions available on request
- Line switch non-illuminated or illuminated
- With or without rear-side insulation cover
- Ideal for application with high transient loads
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Fixing on PCB with self-tapping screws 3 mm or pre-inserted nuts M3
- Other rocker marking
- For protection class II
- Without cover

References
[General Product Information](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

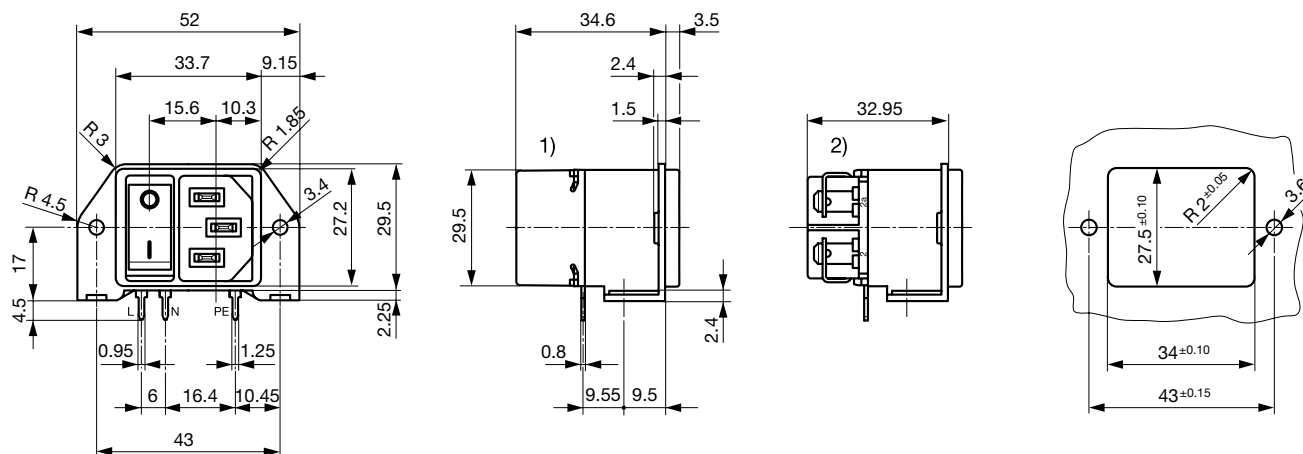
Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	11 A / 125 VAC; 60 Hz
Dielectric Strength	> 2.5 kVAC between L-N > 3 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	For PCB mounting ; Ground terminal: Quick connect terminals 4.8 x 0.8 mm
Panel Thickness s	Screw-on: max 3.5 mm Mounting screw torque max 0.5 Nm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Line Switch	Rocker switch 2-pole, non-illuminated or illuminated, acc. to IEC 61058-1 Technical details

Dimensions

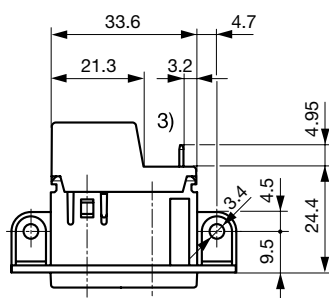
Screw-on mounting

Length | 38.1 mm

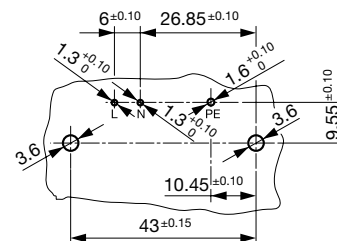


1) with cover

2) without cover



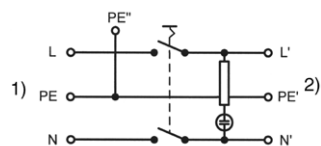
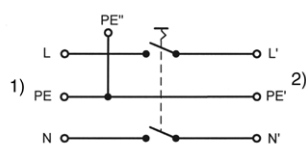
3) PE additionally as quick-connect terminal 4.8 x 0.8 mm



Diagrams

Line switch illuminated 2-pole

Line switch non-illuminated 2-pole

1) Line
2) Load1) Line
2) Load

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Panel mounting	Line Switch	Illumination	Color	Order Number
Screw-on	2-pole		-	DC21.0021.1111
Screw-on	2-pole	●	red	DC21.0023.1111
Screw-on	2-pole	●	green	DC21.0024.1111

Packaging unit

40 Pcs

Accessory

Description



Cord retaining kits

Cord retaining strain relieve

Flat head, Z	0888.0021
Flat head, G	4700.0007

Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C14 with Fuseholder, Line Switch 2-pole and Voltage Selector



Snap-In Version

C14



70° C

**Description**

- Panel Mount:
Snap-in version from rear-side
- 4 Functions:
Appliance Inlet Protection class I, Line switch 2-pole, Fuseholder for fuse-links 5 x 20 mm on the rear-side, Voltage selector (Jumper)
- Alternative: version with line filter [GRM2](#); [GRM4](#)

Approvals

- VDE License Number: 40024784
- UL License Number: E93617

Characteristics

- Low mounting depth behind the panel
Time saving "Lock and Shield" snap-in design for rear-panel mounting
- All single elements are already wired except voltage selector
- Fuseholder on the inside of the equipment prevents accidental use of incorrect fuse-links by the user
- Voltage selector for two voltage ranges
- Insulation cover on the rear-side
- Especially suitable for use in switching power supplies
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Panel thickness 1.0 / 2 / 2.5 mm (max.)
- Fuseholder 1-pole
- Line switch 1-pole
- Line switch with other rocker marking
- Without housing and cover on the rear-side
- For protection class II (only without housing and cover on the rear-side)
- Voltage selector with other marking

References

[General Product Information](#)

Weblinks

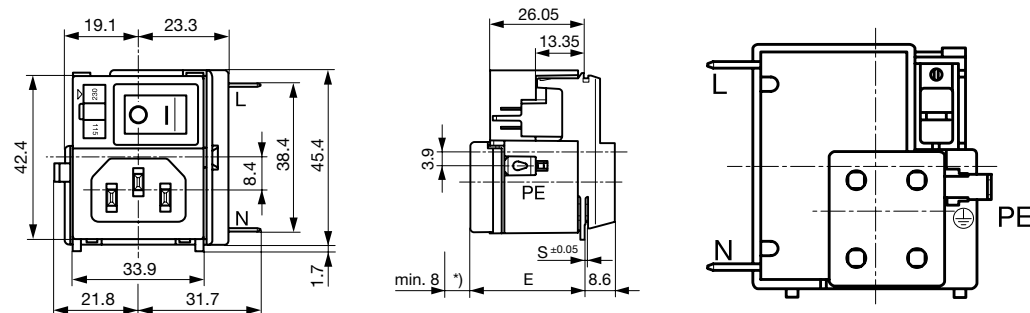
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Ratings IEC	10 A / 250 VAC; 50/60 Hz
Ratings UL/CSA	10 A / 250 VAC; 50/60 Hz
Dielectric Strength	> 2.3 kVAC between L-N > 2.8 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
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 terminals 4.8 x 0.8 mm Solder terminal on request Solder terminals on voltage selector
Panel Thickness s	Snap-in: 1.5 mm (other on request)
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2 W (1 pole)/ 1.6 W (2-pole) per pole
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves
Line Switch	Rocker switch 2-pole, non-illuminated, acc. to IEC 61058-1 Technical details
Voltage selector	optional jumper, 2 digits

Dimensions

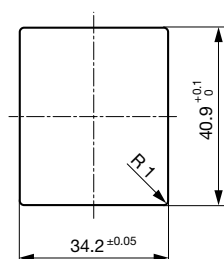


E = 31.7 mm for GRM1 with fuseholder

E = 26.25 mm for GRM1 without fuseholder

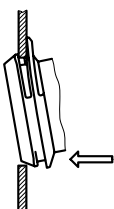
*) min. space to remove the fuseholder cover

Diagrams



Mounting instructions

Step 1



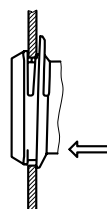
Place the socket in top edge of the panel cut-out.

Step 2



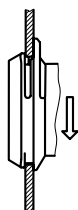
Push the socket upwards.

Step 3



Push the socket forward into the panel cut-out.

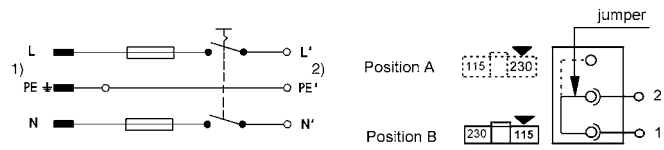
Step 4



Release the socket. The component is self adjusting.

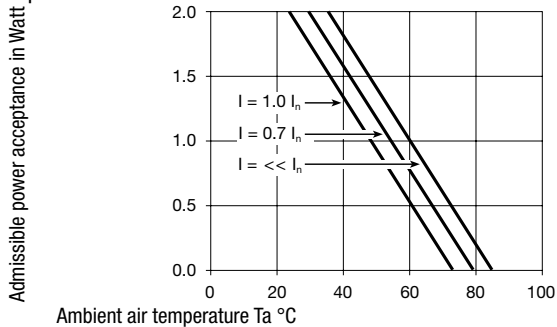
Diagrams

Version: line switch and fuseholder Voltage selector
2-pole

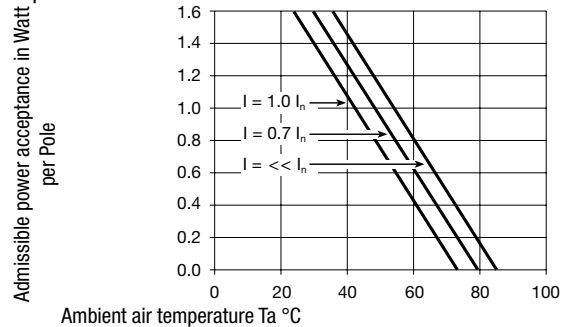


Derating Curves

1-pole



2-pole



Variants

Basic version:
- Marking of the voltage selector 115/230
- with housing and cover on the rear-side

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

Fuseholder	Voltage selector	Order Number
-	●	GRM1.1160.013
-	●	GRM1.1161.023
2-pole	●	GRM1.1180.013
2-pole	●	GRM1.1181.023

Packaging unit 20 Pcs

Mating Outlets/Connectors

Category / Description



Appliance Outlet

IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

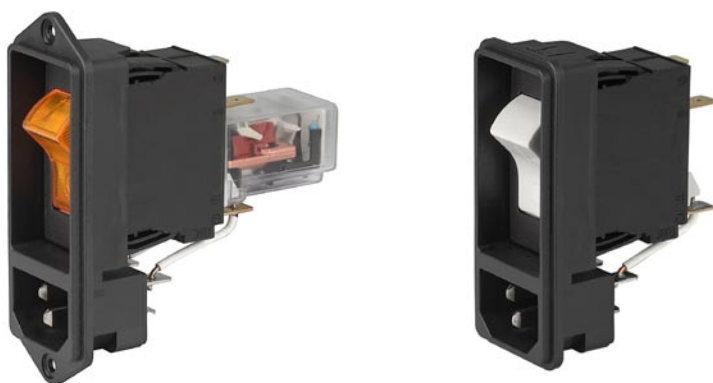
Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC appliance inlet C14 with recessed circuit breaker TA45, 2-pole



C14



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, circuit breaker type TA45 2-pole
- Quick connect terminals 6.3 x 0.8 mm
- Alternative: version with line filter [DF12](#)
- Substitute for type [6145](#)

Approvals

- VDE License Number: 40011305
- UL License Number: E96454

Characteristics

- All single elements are already wired
- Switch non-illuminated or illuminated
- Thermal overload protection
- Optional with undervoltage release or remote trip release
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Unwired versions
- Line switch 1-pole
- Other rocker marking

References

[General Product Information](#)

Weblinks

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

Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	1 - 15 A / 250 VAC; 60 Hz
Dielectric Strength	> 2.5 kVAC between L-N > 3 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-10 °C to 55 °C
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 terminals 6.3 x 0.8 mm
Panel Thickness s	Screw-on: max 8 mm Mounting screw torque max 0.5 Nm Snap-in: 1 / 1.5 / 2 / 2.5 / 3 mm
Material: Housing	Thermoplastic, black, UL 94V-0

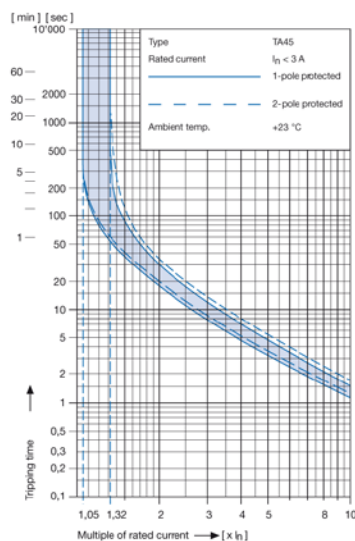
Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Circuit breaker	Acc. IEC/EN 60934, UL 1077, CSA 22.2 no. 235 2-pole rocker switch, illuminated or non-illuminated. Optional with undervoltage- or remote trip release Short circuit capacity Icn: at In < 3A/240VAC : 10 x In at In ≥ 3A/240VAC : 300A
Line Switch	Rocker switch 2-pole, non-illuminated or illuminated, acc. to IEC 61058-1 Technical details



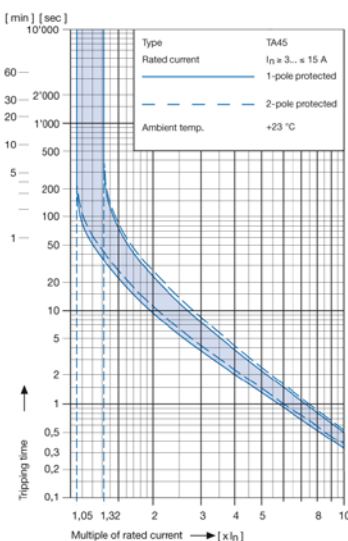
Technical data (continued)

Circuit breaker

Tripping characteristics

 $I_n < 3 \text{ A}$ 

Tripping characteristics

 $I_n \geq 3 \dots \leq 15 \text{ A}$ Effect of ambient temperature ¹⁾

The unit is calibrated for an ambient temperature of +23 °C. To determine the rated current for a lower or higher ambient temperature, use a correction factor from the table below.

* Ambient temperature [°C] Correction factor

-10	0,89
- 5	0,91
0	0,92
+23	1,00
+30	1,03
+40	1,08
+55	1,16

* Temperature must be measured at the rear of the breaker next to the terminals after equipment operating temperature has been reached.

¹⁾ Example

Rated current at +23 °C	6,0 A
Ambient temperature	+40 °C
Correction factor	1,08
Chosen rated current at + 40 °C ambient temperature	6 A x 1,08 = 6,5 A

Order code (Order example)

Type	Order code TA 45 (2-pole rocker-switch without accessories)
DF11.	A B T W F 1 5 0 C 0 . 0 0 1 0 . 0 1
	see table 1
	Wiring 1 wired 2 unwired
	Protection class 0 Protection class I
	Mounting 0 Screw 1 Snap-in s = 1.0 mm 2 Snap-in s = 1.5 mm 3 Snap-in s = 2.0 mm 4 Snap-in s = 2.5 mm 5 Snap-in s = 3.0 mm
	Terminals 1 Quick connect 6.3 x 0.8 0 Without line filter

Please note that Schurter will establish an internal part number for logistical use in addition to the order code. The format of this internal part number is, for example DF12.xxxxxxx

Table 1 Selection for type TA45

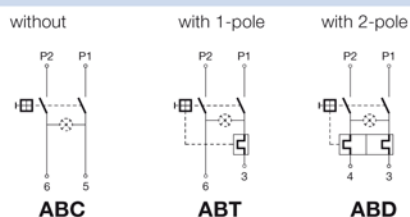
Order example



- Line switch
 - 2-pole, rocker actuated
 - Quick connect terminal
- Other types on request

Diagram

Thermal overload protection



Without illumination

ABC

ABT

ABD

With illumination

220...240 V
110...120 VA02
A04A12
A14A32
A34

Colours

Switch front

W black
B black
6 black

Rocker

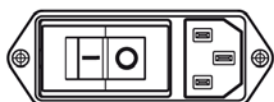
white
black
— orange transp.

Rocker legend

Surface	Illustration	Colour of print
F embossed / Relief	— ○	
H printed / bedruckt	ON OFF	white / weiss
K printed / bedruckt	ON OFF	black / schwarz
L printed / bedruckt	— ○	white / weiss

Surface	Illustration	Colour of print
M printed	— ○	black
P printed	I ○	white
R printed	I ○	black

Position of the rocker legend
e.g F



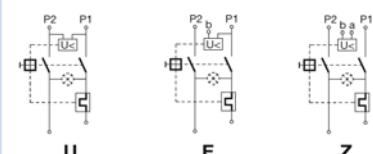
Rated current:

- Without thermal overload protection: code C00 } $I_n = 20 \text{ A}$
- With thermal overload protection: rated current I_n (A)

I_n	Code	I_n	Code	I_n	Code	I_n	Code
0,1	J01	1,3	J13	2,8	J28	10,0	100
0,2	J02	1,4	J14	3,0	030	11,0	110
0,3	J03	1,5	J15	3,5	035	12,0	120
0,4	J04	1,6	J16	4,0	040	13,0	130
0,5	J05	1,7	J17	4,5	045	14,0	140
0,6	J06	1,8	J18	5,0	050	15,0	150
0,7	J07	1,9	J19	6,0	060		
0,8	J08	2,0	J20	6,5	065		
0,9	J09	2,1	J21	7,0	070		
1,0	J10	2,2	J22	7,5	075		
1,1	J11	2,3	J23	8,0	080		
1,2	J12	2,5	J25	9,0	090		

Without release: code C0

Undervoltage release

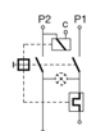


U

E

Z

Remote trip release



A

Code

Rated
voltage U_n

•	•	•	•	2	240 V AC
•	•	•	•	3	230 V AC
•	•	•	•	4	120 V AC

Packaging unit

20 Pcs

Accessory

Description



Assorted Covers
Rear Cover



0859.0109
Rear Cover

Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC appliance inlet C14 with circuit breaker TA45, 2-pole



Screw-On Version

**Description**

- Panel Mount:
Screw-on from front side
- 2 Functions:
Appliance Inlet Protection class I, circuit breaker type TA45 2-pole
- Quick connect terminals 6.3 x 0.8 mm
- Alternative: version with line filter [5145](#)
- We recommend for new applications the new type [DF11](#)

Approvals

- VDE License Number: 117118
- UL License Number: E96454

Characteristics

- All single elements are already wired
Unwired versions available on request
- Line switch non-illuminated or illuminated
Thermal overload protection
Optional with undervoltage release or remote trip release
- Qualified for use in equipment according IEC/EN 60950

References

[General Product Information](#)

Weblinks

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

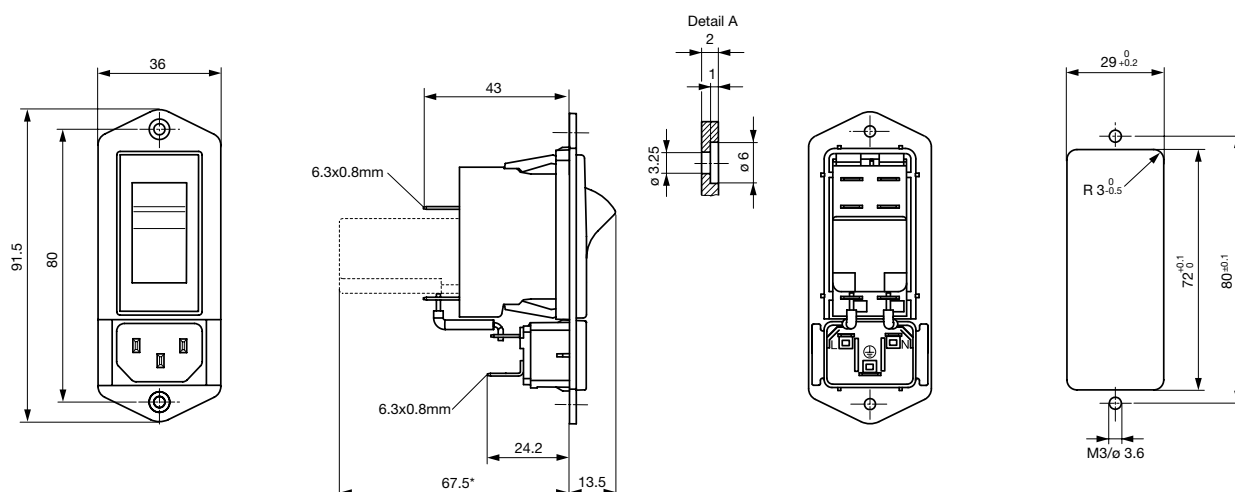
Technical Data

Ratings IEC	10A / 250VAC; 50Hz
Ratings UL/CSA	15A / 250VAC; 60Hz
Dielectric Strength	> 1.5kVAC between L/N-PE (1 min/50Hz)
Allowable Operation Temp.	-10°C to 55°C
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 terminals 6.3 x 0.8 mm
Panel Thickness s	Screw-on: max 6mm Mounting screw torque max 0.5Nm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection class I
Circuit breaker	Acc. IEC/EN 60934, UL 1077, CSA 22.2 no. 235 2-pole rocker switch, illuminated or non-il- luminated. Optional with undervoltage- or remote trip release Short circuit capacity Icn: at $I_n < 3A/240VAC$: 10 x I_n at $I_n \geq 3A/240VAC$: 300A
Line Switch	Rocker switch 2-pole, non-illuminated or illuminated, acc. to IEC 61058-1 Technical details

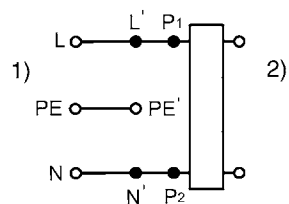
Dimensions

Length |-----| 91.5 mm



* --- Version TA45 with undervoltage release

Diagrams



1) Line
2) Load

Table 1 Selection for type TA45

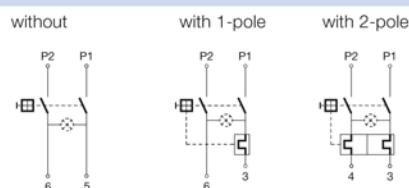
Order example



- Line switch
 - 2-pole, rocker actuated
 - Quick connect terminal
- Other types on request

Diagram

Thermal overload protection



Without illumination

ABC**ABT****ABD**

With illumination

220...240 V
110...120 V**A02**
A04**A12**
A14**A32**
A34**Colours****Switch front**

W black
B black
6 black

Rocker

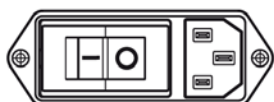
white
 black
 – orange transp.

Rocker legend

Surface	Illustration	Colour of print
F embossed / Relief	— ○	
H printed / bedruckt	ON OFF	white / weiss
K printed / bedruckt	ON OFF	black / schwarz
L printed / bedruckt	— ○	white / weiss

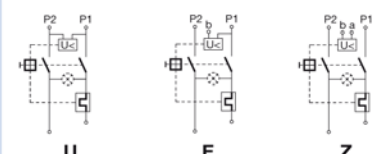
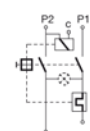
Surface	Illustration	Colour of print
M printed	— ○	black
P printed	I ○	white
R printed	I ○	black

Position of the rocker legend
 e.g F

**Rated current:**

- Without thermal overload protection: code C00 } $I_n = 20 \text{ A}$
- With thermal overload protection: rated current I_n (A)

I_n	Code	I_n	Code	I_n	Code	I_n	Code
0,1	J01	1,3	J13	2,8	J28	10,0	100
0,2	J02	1,4	J14	3,0	030	11,0	110
0,3	J03	1,5	J15	3,5	035	12,0	120
0,4	J04	1,6	J16	4,0	040	13,0	130
0,5	J05	1,7	J17	4,5	045	14,0	140
0,6	J06	1,8	J18	5,0	050	15,0	150
0,7	J07	1,9	J19	6,0	060		
0,8	J08	2,0	J20	6,5	065		
0,9	J09	2,1	J21	7,0	070		
1,0	J10	2,2	J22	7,5	075		
1,1	J11	2,3	J23	8,0	080		
1,2	J12	2,5	J25	9,0	090		

Without release: code C0**Undervoltage release****U****E****Z****Remote trip release****A****Code**Rated
voltage U_n

•	•	•	•	2	240 V AC
•	•	•	•	3	230 V AC
•	•	•	•	4	120 V AC

Packaging unit

20 Pcs

Accessory

Description



Assorted Covers
Rear Cover

0859.0074

Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



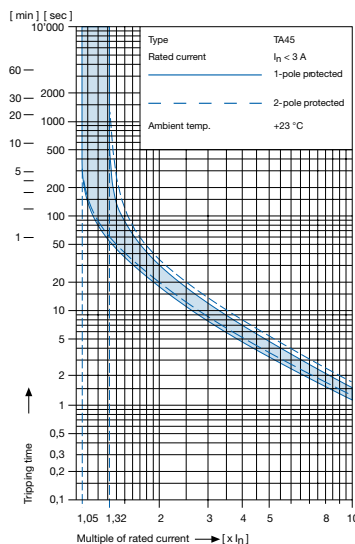
Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

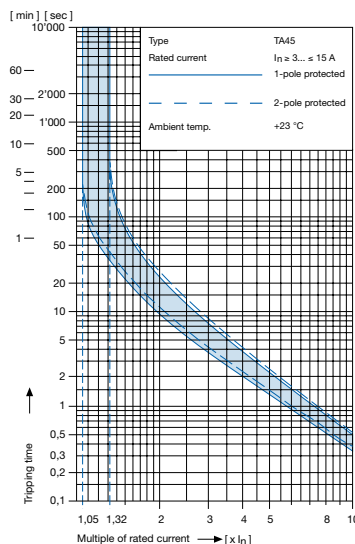
Technical data (continued)

Circuit breaker

Tripping characteristics

 $I_n < 3 \text{ A}$ 

Tripping characteristics

 $I_n \geq 3 \dots \leq 15 \text{ A}$ Effect of ambient temperature ¹⁾

The unit is calibrated for an ambient temperature of +23 °C. To determine the rated current for a lower or higher ambient temperature, use a correction factor from the table below.

* Ambient temperature [°C] Correction factor

-10	0,89
-5	0,91
0	0,92
+23	1,00
+30	1,03
+40	1,08
+55	1,16

* Temperature must be measured at the rear of the breaker next to the terminals after equipment operating temperature has been reached.

¹⁾ Example

Rated current at +23 °C	6,0 A
Ambient temperature	+40 °C
Correction factor	1,08
Chosen rated current at + 40 °C ambient temperature	6 A x 1,08 = 6,5 A

Order code (Order example)

Type	Order code TA 45 (2-pole rocker-switch without accessories)	Wiring 0 Without 1 With 2 Special (on request)
6145.	A B T W F 1 5 0 C 0 see table 1	0 Without line filter 0 Without line filter

Please note that Schurter will establish an internal part number for logistical use in addition to the order code. The format of this internal part number is, for example 6145.0031.001

IEC Appliance Connector C14 with Circuit Breaker, 70°C



Snap-In Version

C14



70° C

**Description**

- Panel Mount:
- Snap-in version, from front side Appliance Inlet, Protection class I, Circuit breaker type TA35,
- Solder terminals or quick connect terminals
- We recommend for new applications the new type 6135

Approvals

- VDE License Number: 40017874
- UL License Number: E88880
- CSA License Number: 1249302

Characteristics

- Line switch non-illuminated or illuminated
- Thermal overload protection

References

[General Product Information](#)

Weblinks

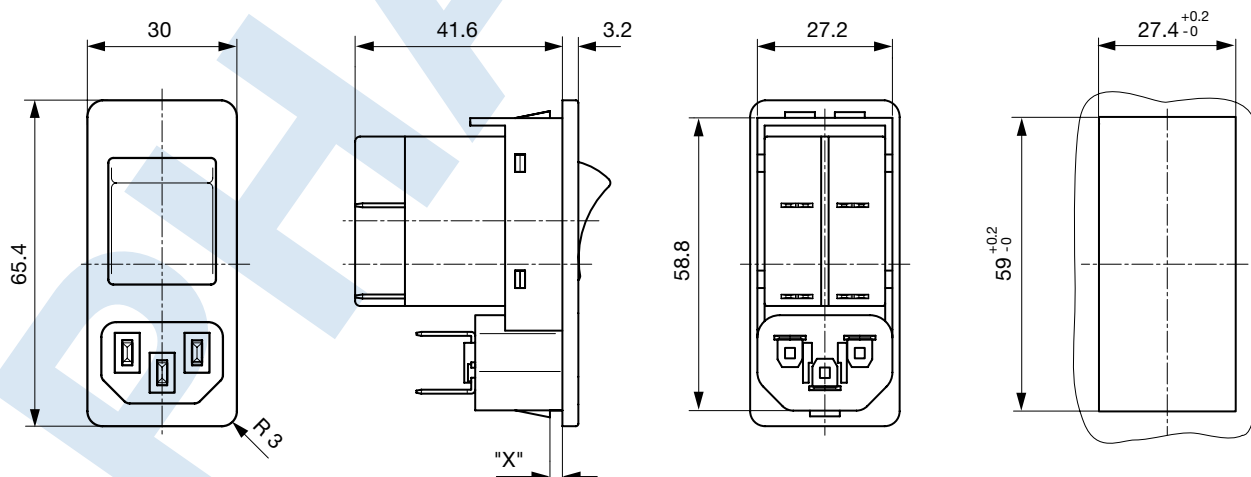
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz	Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1
Ratings UL/CSA	10 A / 250 VAC; 60 Hz		UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Dielectric Strength	> 4 kVAC between L-N > 2 kVAC between L/N-PE (1 min/50 Hz)	Circuit breaker	2-pole rocker switch, illuminated or non-illuminated.
Allowable Operation Temp.	-25 °C to 70 °C	Line Switch	Rocker switch, non-illuminated black, acc. to IEC 61058-1
Degree of Protection	from front side IP 20 acc. to IEC 60529		Technical details
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140		
Terminal	Solder terminals or quick connect terminals		
Panel Thickness s	Snap-in: 1.5 / 2.5 mm		
Material: Housing	black, UL 94V-0		

Dimensions

Length | 30 mm



Dimension "X" please ref. to table order code

Packaging unit

50 Pcs

Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



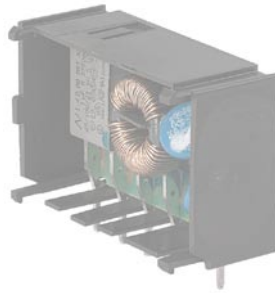
Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C14 with Appliance Plug F



Inlet with outlet



KPF Filter Module
(not enclosed)

C14



70° C

F



70° C



Description

- Panel Mount:
Sandwich/rear-side
- 2 Functions:
Appliance Inlet Protection class I, Connector Protection class I
- For PCB mounting
- Alternative: version with line filter [KPF](#); [KPS](#)

Approvals

- VDE License Number: 40008635
- UL License Number: E103791
- CSA License Number: 38456

Characteristics

- Panel mount from rear or "sandwich" between top and bottom/side to side panels
PCB mount with snap-in or screw-on <BREAK/> feet (self tapping screws Ø 3 x 8 mm)
- All single elements are already wired
- Insulation cover on the rear-side
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Solder terminals
- Quick-connect terminals
- For protection class II

References

[General Product Information](#)

Weblinks

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

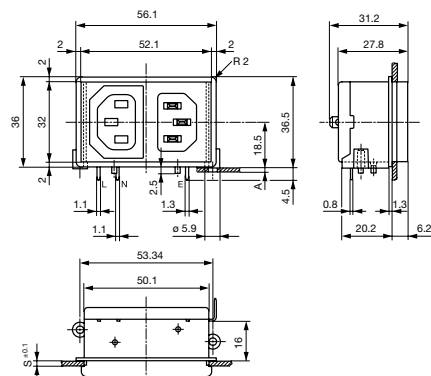
Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 125 VAC; 60 Hz
Dielectric Strength	> 2.3 kVAC between L-N > 2.8 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
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	For PCB mounting Quick connect terminals 4.8 x 0.8 mm Solder terminal on request
Panel Thickness s	Snap-in: 1.5 / 2 / 2.5 / 3 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1 and F acc. to IEC/EN 60320-2-2, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
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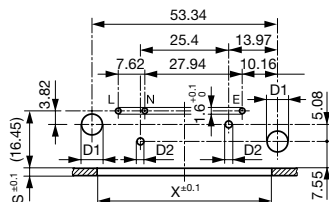
Dimensions

Screw on PCB mounting

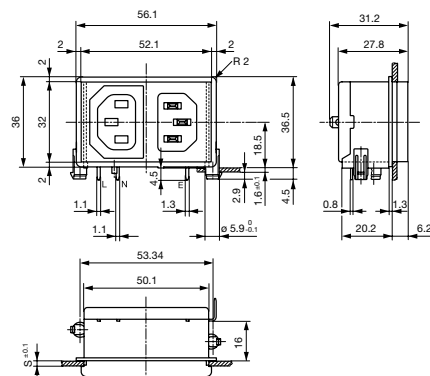


A = for PCB-thickness 1.2/1.6/2.0/2.4 mm
 Additional quick connect terminal 4.8 x 0.8 mm

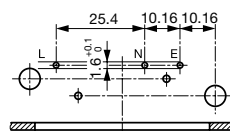
For 2-pole inlet/switch, 2-pole inlet/fuseholder and inlet/outlet



Length 56.1 mm
 Snap-in PCB mounting



Additional quick connect terminal 4.8 x 0.8 mm
 s = panel thickness

For 1-pole inlet/switch and 1-pole inlet/fuseholder
S and X see mounting holes

Other dimensions as for 2-poles

d1 = 6 ± 0.05 for (snap-in)

d1 = 3.6 (screw-on)

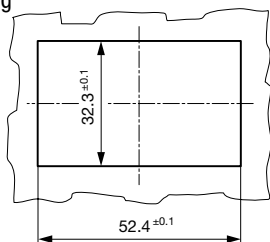
d2 = 2 ± 0.1 (screw-on)

Dimensions without tolerance:

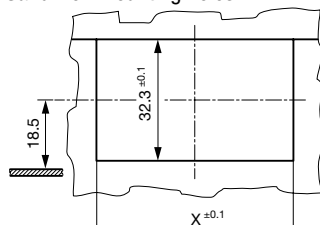
≤ 15 = ± 0.05; ≥ 15 = ± 0.1

Diagrams

Mounting holes for backside mounting

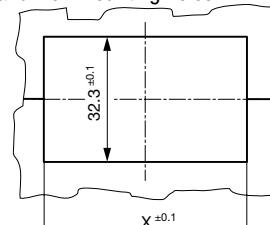


Sandwich mounting holes

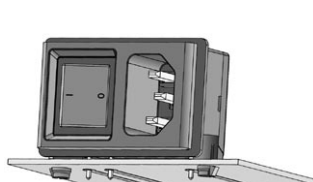


X = 48.4 at S = 1.5 and 2.5
 X = 50.4 at S = 2.0 and 3.0

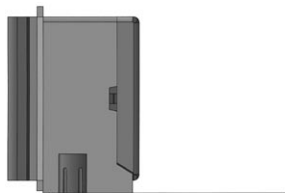
Sandwich mounting holes



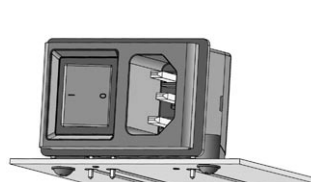
X = 48.4 at S = 1.5 and 2.5
 X = 50.4 at S = 2.0 and 3.0

Mounting instructions

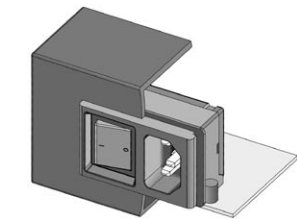
Stable snap feet requires minimal insertion force



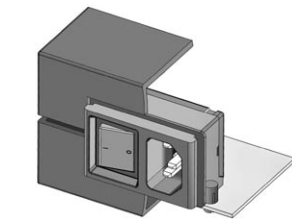
Module must lay flat on the PCB when soldering



Screw-on mount uses self-tapping screws

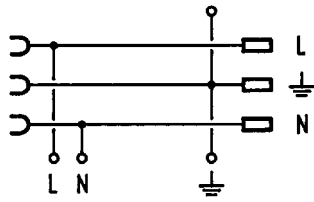


Insertion from behind



"Sandwich" mounting with split enclosure panels

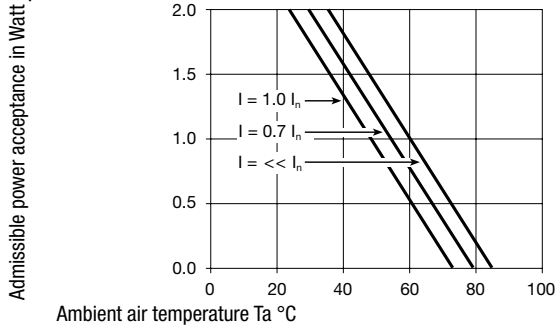
Diagrams



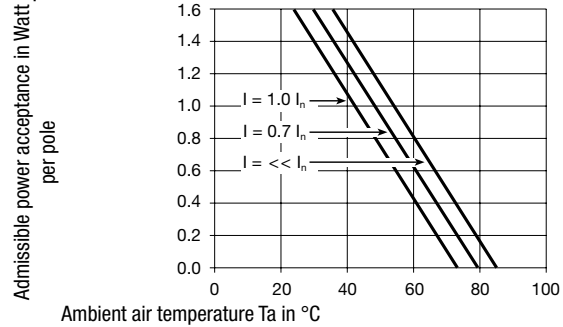
Inlet with outlet

Derating Curves

1-pole



2-pole



Variants

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

Panel mounting	Panel Thickness s [mm]	PCB [mm]	Line Switch	Fuseholder	Connector	Order Number
Screw-on	2	1.2/1.6/2.0/2.4	-	-	F	KP01.1052.01
Screw-on	3	1.2/1.6/2.0/2.4	-	-	F	KP01.1053.01
Snap-in	2	1.6	-	-	F	KP01.1012.01
Snap-in	3	1.6	-	-	F	KP01.1013.01

Type KP without cover: KP01.XXXX.XX90

Ground Terminal with solder pin: KP01.XXXX.X3XX

Packaging unit

50 Pcs

Mating Inlets/Plugs

Category / Description

Interconnection Cord



Power Cord with IEC Appliance Plug E, angled, 70°C	0607
Power Cord with IEC Appliance Plug E, angled, 70°C	0608
Power Cord with IEC Appliance Plug E, straight, 70°C	0609
Power Cord with IEC Appliance Plug G, angled, 70°C	607B
Power Cord with IEC Appliance Plug G, angled, 70°C	608B
Power Cord with IEC Appliance Plug G, straight, 70°C	609B



Plug Connector

IEC plug connector E, rewirable, straight, max. cable diameter 8.5 mm	4732
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4733
IEC plug connector E, rewirable, straight, max. cable diameter 10 mm	4735
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4736
IEC plug connector E, rewirable, straight	9009
IEC plug connector E, rewirable, angled	9013
IEC plug connector E, rewirable, angled	P685

Mating Outlets/Connectors



Appliance Outlet

IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092



Connector

IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



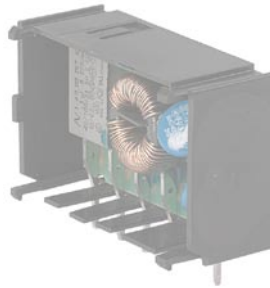
Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C14 with Line Switch 1- or 2-pole



Inlet with line switch



KPF Filter Module
(not enclosed)

C14



70° C



Description

- Panel Mount:
- Sandwich/rear-side
- 2 Functions:
- Appliance Inlet Protection class I, Line switch 1- and 2- pole
- For PCB mounting
- Alternative: version with line filter [KPF](#); [KPS](#)
- We recommend for new applications the new type [DC21](#)

Approvals

- VDE License Number: 40008635
- UL License Number: E96454
- CSA License Number: 38456

Characteristics

- Panel mount from rear or "sandwich" between top and bottom/side to side panels
- PCB mount with snap-in or screw-on <BREAK/> feet (self tapping screws Ø 3 x 8 mm)
- All single elements are already wired
- Line switch non-illuminated
- Insulation cover on the rear-side
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Solder terminals
- Quick-connect terminals
- Line switch, illuminated (only 2-pole version)
- Line switch with other rocker marking
- For protection class II

References

[General Product Information](#)

Weblinks

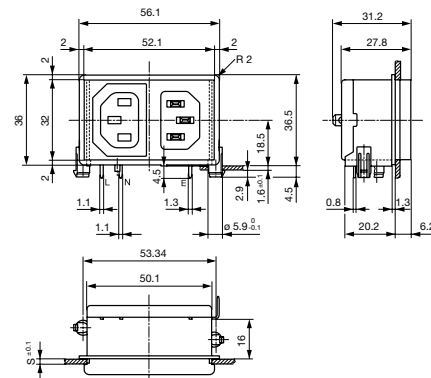
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

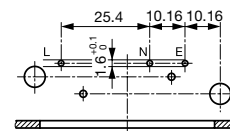
Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	15 A / 250 VAC; 60 Hz
Dielectric Strength	> 2.3 kVAC between L-N > 2.8 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	For PCB mounting Quick connect terminals 4.8 x 0.8 mm Solder terminal on request
Panel Thickness s	Snap-in: 1.5 / 2 / 2.5 / 3 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Line Switch	Rocker switch 1 or 2 pole, non-illuminated, acc. to IEC 61058-1 Technical details

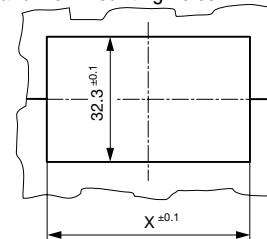
Length |-----| 56.1 mm
Snap-in PCB mounting



For 1-pole inlet/switch and 1-pole inlet/fuseholder
S and X see mounting holes

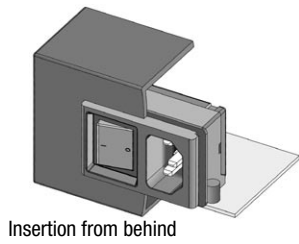
 $\leq 15 = \pm 0.05; \geq 15 = \pm 0.1$

Sandwich mounting holes

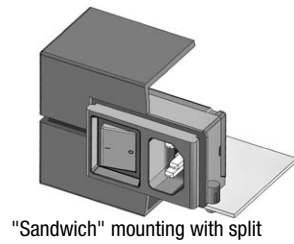


X = 48.4 at S = 1.5 and 2.5
X = 50.4 at S = 2.0 and 3.0

Screw-on mount uses self-tapping screws

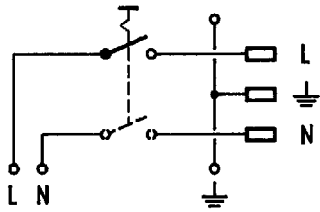


Insertion from behind



"Sandwich" mounting with split enclosure panels

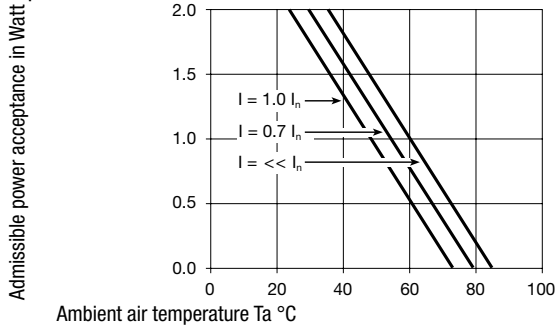
Diagrams



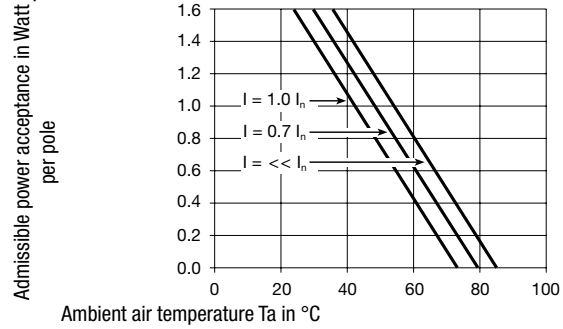
Inlet with line switch

Derating Curves

1-pole



2-pole



Variants

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

Panel mounting	Panel Thickness s [mm]	PCB [mm]	Line Switch	Fuseholder	Connector	Order Number
Screw-on	2	1.2/1.6/2.0/2.4	1 pole	-	-	KP01.1252.11
Screw-on	2	1.2/1.6/2.0/2.4	2-pole	-	-	KP01.1152.11
Screw-on	3	1.2/1.6/2.0/2.4	1 pole	-	-	KP01.1253.11
Screw-on	3	1.2/1.6/2.0/2.4	2-pole	-	-	KP01.1153.11
Snap-in	2	1.6	1 pole	-	-	KP01.1212.11
Snap-in	2	1.6	2-pole	-	-	KP01.1112.11
Snap-in	3	1.6	1 pole	-	-	KP01.1213.11
Snap-in	3	1.6	2-pole	-	-	KP01.1113.11

Type KP without cover: KP01.XXXX.XX90

Ground Terminal with solder pin: KP01.XXXX.X3XX

Packaging unit

50 Pcs

Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

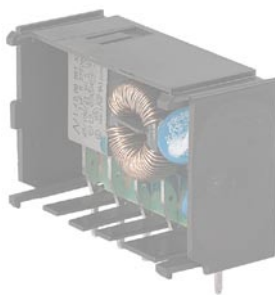
...

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

Medical fuse drawer



Inlet with fuseholder (5x20 mm)


KPF Filter Module
(not enclosed)

C14



70° C



Description

- Panel Mount:
Sandwich/rear-side
- 2 Functions:
Appliance Inlet Protection class I, Fuseholder for fuse-links 5 x 20 mm
1- or 2-pole
- For PCB mounting
- Alternative: version with line filter [KPF](#); [KPS](#)

Approvals

- VDE License Number: 40008635
- UL License Number: E93617
- CSA License Number: 38456

Characteristics

- Panel mount from rear or "sandwich" between top and bottom/side to side panels
PCB mount with snap-in or screw-on <BREAK/> feet (self tapping screws Ø 3 x 8 mm)
- All single elements are already wired
- Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuse drawer can only be opened with the aid of a tool
The fuseholder is accessible from the equipment front
- Insulation cover on the rear-side
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Solder terminals
- Quick-connect terminals
- For protection class II

References

[General Product Information](#)

Weblinks

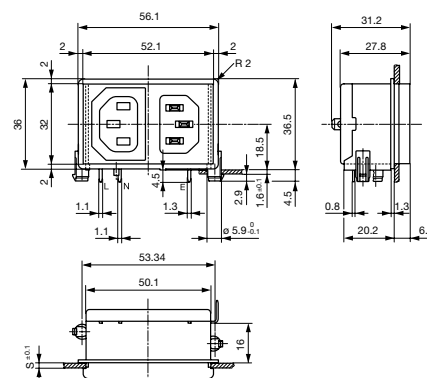
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

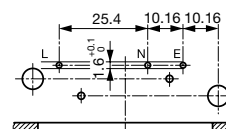
Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 125 VAC; 60 Hz
Dielectric Strength	> 2.3 kVAC between L-N > 2.8 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	For PCB mounting Quick connect terminals 4.8 x 0.8 mm Solder terminal on request
Panel Thickness s	Snap-in: 1.5 / 2 / 2.5 / 3 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2 W (1 pole)/ 1.6 W (2-pole) per pole
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves

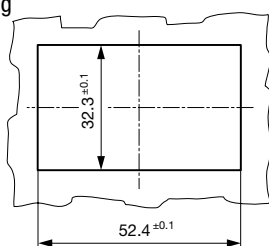
Length |—————| 56.1 mm
Snap-in PCB mounting



For 1-pole inlet/switch and 1-pole inlet/fuseholder
S and X see mounting holes

 $\leq 15 = \pm 0.05; \geq 15 = \pm 0.1$

Mounting holes for backside mounting

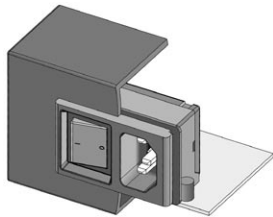


X = 48.4 at S = 1.5 and 2.5
X = 50.4 at S = 2.0 and 3.0

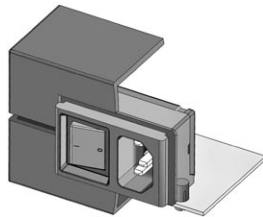
A black and white photograph of a heavy-duty metal safe. The safe is shown from a three-quarter perspective, with its door open to the right. The interior of the door has a small rectangular window with a handle. Inside the safe, there are two shelves and a small drawer at the bottom. The safe is mounted on a base with four legs.

A perspective view of the device with its front panel removed. The panel is shown to the left, revealing the internal components, including a large rectangular opening and a smaller circular opening. The main unit is shown with its internal structure exposed.

Screw-on mount uses self-tapping screws

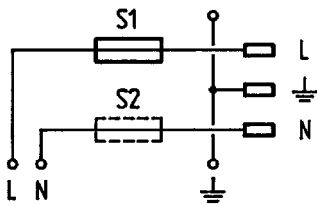


Insertion from behind



"Sandwich" mounting with split enclosure panels

Diagrams



Inlet with fuseholder (5 x 20 mm)

Variants

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

Panel mounting	Panel Thickness s [mm]	PCB [mm]	Line Switch	Fuseholder	Connector	Order Number
Screw-on	2	1.2/1.6/2.0/2.4	-	1 pole	-	KP01.1452.01
Screw-on	2	1.2/1.6/2.0/2.4	-	2-pole	-	KP01.1352.01
Screw-on	3	1.2/1.6/2.0/2.4	-	1 pole	-	KP01.1453.01
Screw-on	3	1.2/1.6/2.0/2.4	-	2-pole	-	KP01.1353.01
Snap-in	2	1.6	-	1 pole	-	KP01.1412.01
Snap-in	2	1.6	-	2-pole	-	KP01.1312.01
Snap-in	3	1.6	-	1 pole	-	KP01.1413.01
Snap-in	3	1.6	-	2-pole	-	KP01.1313.01

Type KP without cover: KP01.XXXX.XX90

Ground Terminal with solder pin: KP01.XXXX.X3XX

Packaging unit

50 Pcs

Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092



Connector

IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C14 with Fuseholder 1-/2-pole, 70°C, fits to Felcom

Plug removal necessary for fuse replacement



Appliance inlet with fuseholder

**Description**

- Component:
Snap-in version from front side
- 2 Functions:
Appliance Inlet Protection class I, Fuseholder for fuse-links 5 x 20 mm 1- or 2-pole
- For PCB mounting, fits to Felcom

Approvals

- CSA License Number: 38456

Characteristics

- Individual components soldered on a printed circuit board
- Plug removal necessary for fuse-link replacement
Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuseholder is accessible from the equipment front
- Qualified for use in equipment according IEC/EN 60950

References

[General Product Information](#)

Weblinks

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

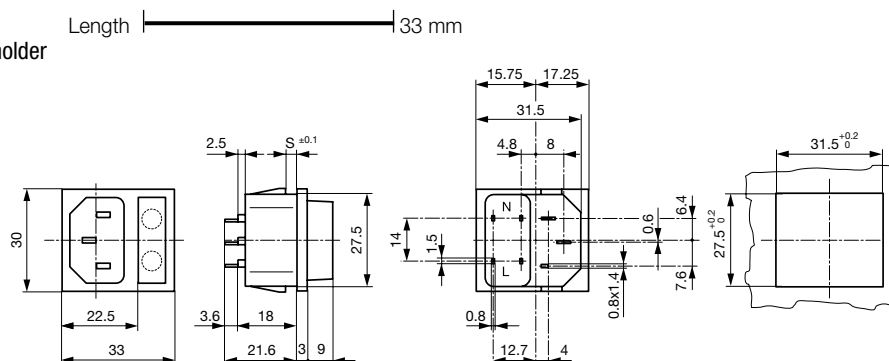
Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Allowable Operation Temp.	-25 °C to 70 °C
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	For PCB mounting
Panel Thickness s	Snap-in: 1 / 1.2 / 1.5 / 2 / 2.5 / 3 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2 W (1 pole)/ 1.6 W (2-pole) per pole
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves

Dimensions

Appliance inlet with fuseholder



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

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Type	Panel Thickness s [mm]	Line Switch	Fuseholder	Appliance Inlet	Connector	Order Number
Fuseholder	1	-	1 pole	C14	-	6250.5510
Fuseholder	1	-	2-pole	C14	-	6255.5510
Fuseholder	1.2	-	1 pole	C14	-	6250.5512
Fuseholder	1.2	-	2-pole	C14	-	6255.5512
Fuseholder	1.5	-	1 pole	C14	-	6250.5515
Fuseholder	1.5	-	2-pole	C14	-	6255.5515
Fuseholder	2	-	1 pole	C14	-	6250.5520
Fuseholder	2	-	2-pole	C14	-	6255.5520
Fuseholder	2.5	-	1 pole	C14	-	6250.5525
Fuseholder	2.5	-	2-pole	C14	-	6255.5525
Fuseholder	3	-	1 pole	C14	-	6250.5530
Fuseholder	3	-	2-pole	C14	-	6255.5530

Packaging unit 50 Pcs

Mating Outlets/Connectors

Category / Description



Appliance Inlet

IEC appliance inlet C16	0169
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Appliance Outlet

IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Category / Description

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L
	...

Line Switch, fits to Felcom



Line switch

**Description**

- Component:
Snap-in version from front side
- 1 Function:
Line switch 2-pole
- For PCB mounting, fits to Felcom

Characteristics

- Line switch non-illuminated
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Other rocker marking

References

[General Product Information](#)

Weblinks

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

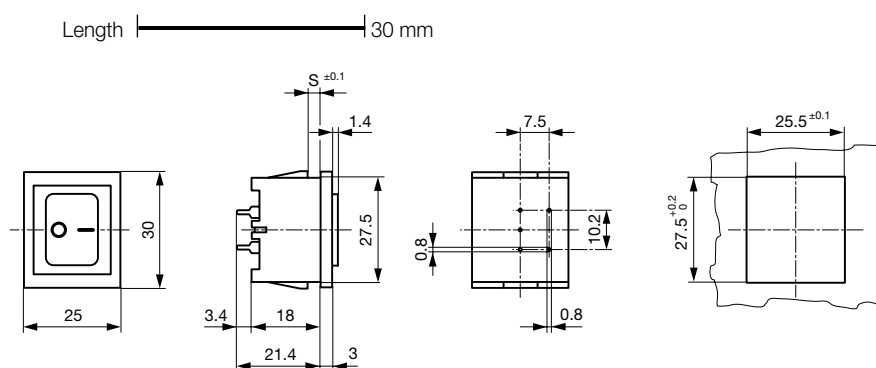
Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	15 A / 125/250 VAC; 60 Hz
Allowable Operation Temp.	-25 °C to 70 °C
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	For PCB mounting
Panel Thickness s	Snap-in: 1 / 1.2 / 1.5 / 2 / 2.5 / 3 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Line Switch	Rocker switch 2-pole, non-illuminated, IEC 61058-1
	Technical details

Dimensions

Line switch

**Variants**

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

Type	Panel Thickness s [mm]	Line Switch	Fuseholder	Appliance Inlet	Connector	Order Number
Switch	1	2-pole	-	-	-	6050.5510
Switch	1.2	2-pole	-	-	-	6050.5512
Switch	1.5	2-pole	-	-	-	6050.5515
Switch	2	2-pole	-	-	-	6050.5520
Switch	2.5	2-pole	-	-	-	6050.5525
Switch	3	2-pole	-	-	-	6050.5530

Packaging unit 50 Pcs

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



Screw-On Version



Snap-In Version



Pick & Place Version

**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
- For PCB mounting
- Pick and place version

Approvals

- VDE License Number: 40024857
- UL License Number: E93617, E96454
- CSA License Number: 38456

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 meets ESD requirements
- Qualified for use in equipment according IEC/EN 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

References

[General Product Information](#)

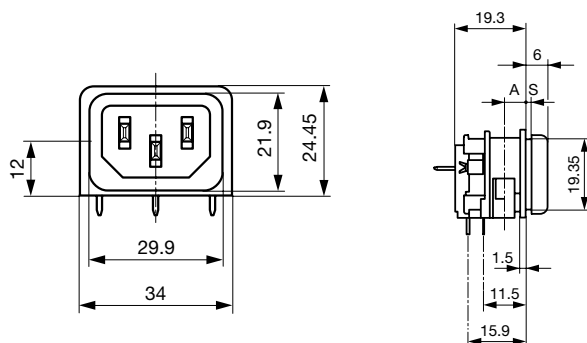
Weblinks

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

Technical Data

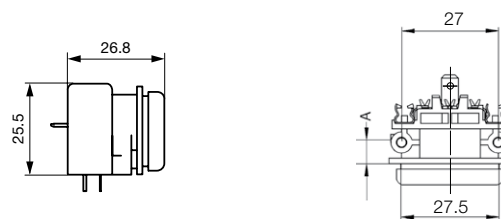
Ratings IEC	10A / 250VAC; 50Hz
Ratings UL/CSA	10A / 250VAC; 60Hz
Dielectric Strength	> 3kVAC between L-N > 4kVAC between L/N-PE (1 min/50Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	For PCB mounting
Panel Thickness s	Snap-in: 1.5 / 2 / 2.5 / 3 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection class I
Fuseholder	optional, 1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 3.15W (1 pole)/ 2.5W (2-pole) per pole
Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves

Dimensions

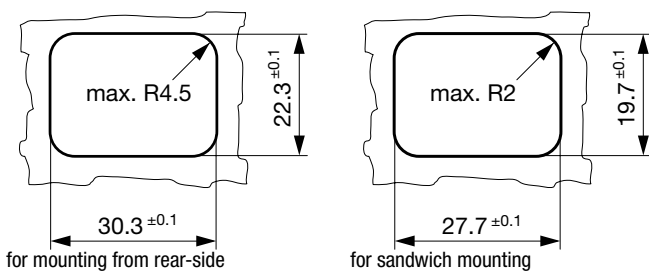
A = 6 mm for standard versions
A = 5 mm for pick and place versions
S = 0 mm for mounting from rear-side

with insulation cover



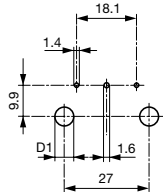
A = 6 mm for standard versions
A = 5 mm for pick and place versions

Diagrams



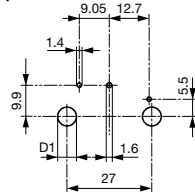
Drilling diagrams

without fuseholder



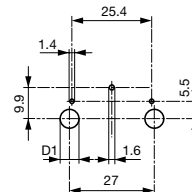
d1 for snap-in mounting = 6 ± 0.05
 d1 for self-tapping screw = 3.6 ± 0.1

with 1-pole fuseholder



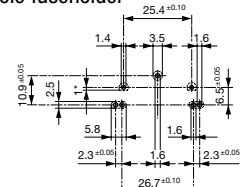
d1 for snap-in mounting = 6 ± 0.05
 d1 for self-tapping screw = 3.6 ± 0.1

with 2-pole fuseholder



d1 for snap-in mounting = 6 ± 0.05
 d1 for self-tapping screw = 3.6 ± 0.1

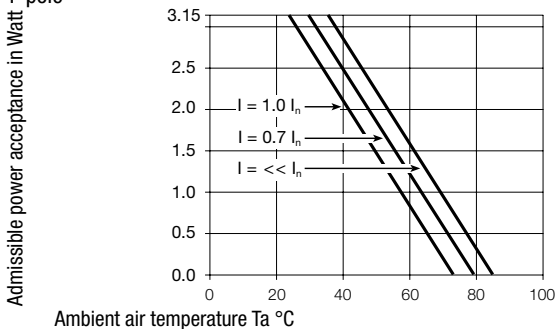
Pick and Place versions
 without / with 1-pole or
 2-pole fuseholder



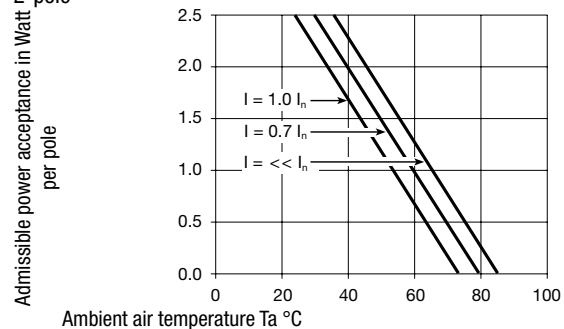
1* only for protection class II

Derating Curves

1-pole



2-pole



Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Mounting side	Panel mounting	Panel Thickness s [mm]	Fuseholder	Ground terminal 4.8 x 0.8 mm	Ground terminal direction	Packaging	Order Number
Sandwich	Screw-on	1.5	-	●	angled to pin axis	-	GSF1.0002.31
Sandwich	Screw-on	1.5	-	●	straight	-	GSF1.0001.31
Sandwich	Screw-on	2	-	●	angled to pin axis	-	GSF1.0002.41
Sandwich	Screw-on	2	-	●	straight	-	GSF1.0001.41
Sandwich	Screw-on	2.5	-	●	angled to pin axis	-	GSF1.0002.51
Sandwich	Screw-on	2.5	-	●	straight	-	GSF1.0001.51
Sandwich	Screw-on	3	-	●	angled to pin axis	-	GSF1.0002.61
Sandwich	Screw-on	3	-	●	straight	-	GSF1.0001.61
Sandwich	Screw-on	1.5	1 pole	●	angled to pin axis	-	GSF1.1002.31
Sandwich	Screw-on	1.5	1 pole	●	straight	-	GSF1.1001.31
Sandwich	Screw-on	2	1 pole	●	angled to pin axis	-	GSF1.1002.41
Sandwich	Screw-on	2	1 pole	●	straight	-	GSF1.1001.41
Sandwich	Screw-on	2.5	1 pole	●	angled to pin axis	-	GSF1.1002.51
Sandwich	Screw-on	2.5	1 pole	●	straight	-	GSF1.1001.51
Sandwich	Screw-on	3	1 pole	●	angled to pin axis	-	GSF1.1002.61
Sandwich	Screw-on	3	1 pole	●	straight	-	GSF1.1001.61
Sandwich	Screw-on	1.5	2-pole	●	angled to pin axis	-	GSF1.2002.31
Sandwich	Screw-on	1.5	2-pole	●	straight	-	GSF1.2001.31
Sandwich	Screw-on	2	2-pole	●	angled to pin axis	-	GSF1.2002.41
Sandwich	Screw-on	2	2-pole	●	straight	-	GSF1.2001.41
Sandwich	Screw-on	2.5	2-pole	●	angled to pin axis	-	GSF1.2002.51
Sandwich	Screw-on	2.5	2-pole	●	straight	-	GSF1.2001.51
Sandwich	Screw-on	3	2-pole	●	angled to pin axis	-	GSF1.2002.61
Sandwich	Screw-on	3	2-pole	●	straight	-	GSF1.2001.61
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	●	angled to pin axis	-	GSF1.2202.61
Sandwich	Snap-in	3	2-pole	●	straight	-	GSF1.2201.61
Rear-Side	Screw-on	6	-	●	angled to pin axis	-	GSF1.0002.01
Rear-Side	Screw-on	6	-	●	straight	-	GSF1.0001.01
Rear-Side	Screw-on	6	1 pole	●	angled to pin axis	-	GSF1.1002.01
Rear-Side	Screw-on	6	1 pole	●	straight	-	GSF1.1001.01
Rear-Side	Screw-on	6	2-pole	●	angled to pin axis	-	GSF1.2002.01
Rear-Side	Screw-on	6	2-pole	●	straight	-	GSF1.2001.01
Rear-Side	Snap-in	6	-	●	angled to pin axis	-	GSF1.0202.01

Mounting side	Panel mounting	Panel Thickness s [mm]	Fuseholder	Ground terminal 4.8 x 0.8 mm	Ground terminal direction	Packaging	Order Number
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	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

Insulation cover must be ordered separately. Order No. 0098.0078

Packaging unit 50 Pcs

Accessory

Description



Assorted Covers
Rear Cover

0098.0078

Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Category / Description

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L
...	...

IEC appliance connector C14 with fuseholder 1- or 2-pole



Snap-In Version

C14



70° C

C18



70° C

**Description**

- Panel Mount:
Snap-in version from front side
- 2 Functions:
Appliance Inlet protection class I or II, Fuseholder for fuse-links 5 x 20 mm on the rear-side 1- or 2-pole

Approvals

- VDE License Number: 40024857
- UL License Number: E93617, E96454
- CSA License Number: 38456

Characteristics

- Two "locking" snappers reinforce connector against repeated or excessive pull out force during plug removal
- All single elements are already wired
- Fuseholder on the inside of the equipment prevents accidental use of incorrect fuse-links by the user
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Ground terminal, solder/quick-connect, 90° to connector axis

References

[General Product Information](#)

Weblinks

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

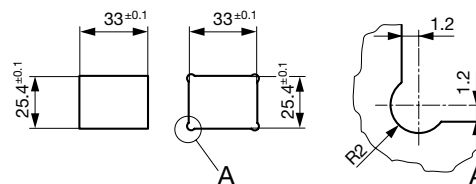
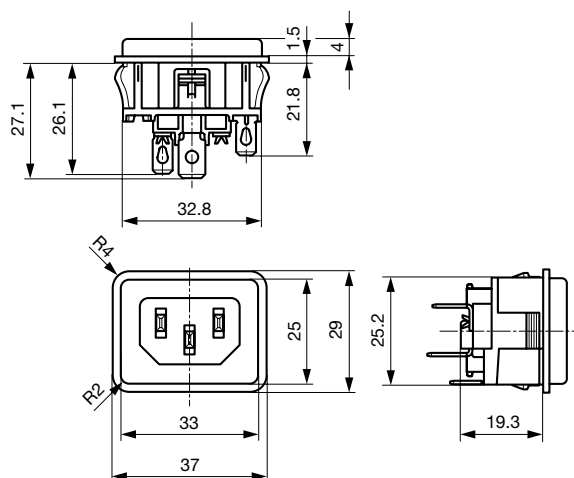
Technical Data

Ratings IEC	10A / 250 VAC; 50Hz
Ratings UL/CSA	10A / 125 VAC; 60Hz
Dielectric Strength	> 2.2 kVAC between L-N > 3 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of 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 4.8 x 0.8 mm , Ground terminal: Solder terminals or quick connect terminals tin-plated Solder terminal on request
Panel Thickness s	Snap-in: 1 / 1.2 / 1.5 / 2 / 2.5 / 3 mm (other on request) (all steps with one variant)
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14/C18 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection class I or II
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 3.15W (1 pole)/ 2.5W (2-pole) per pole
Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves

Dimensions

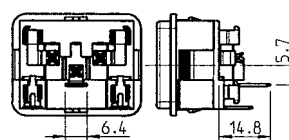
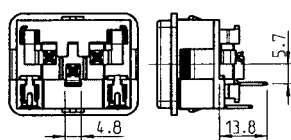
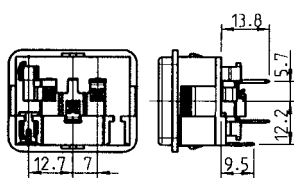
Length  37 mm
punched / drilled



Line and neutral: Quick-connect terminal 4.8x0.8mm

Ground terminal: Quick connect terminal 4.8x0.8mm

Ground terminal: Quick-connect terminal 6.3x0.8mm

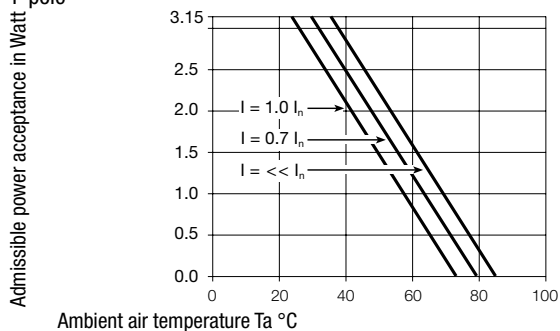


Mounting instructions

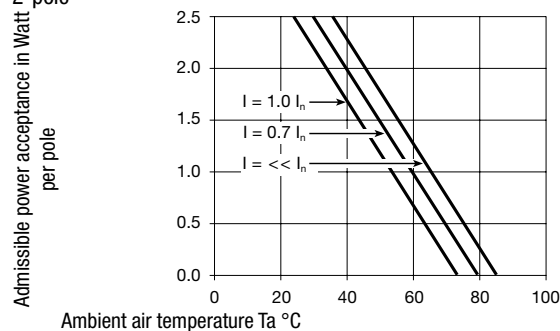


Derating Curves

1-pole



2-pole



Variants

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

Protection Class	Fuseholder	Ground terminal	Order Number
I	1 pole	Quick connect terminals 4.8 x 0.8 mm	GSF2.1011.01
I	1 pole	Quick connect terminals 6.3 x 0.8 mm	GSF2.1013.01
I	2-pole	Quick connect terminals 4.8 x 0.8 mm	GSF2.2011.01
I	2-pole	Quick connect terminals 6.3 x 0.8 mm	GSF2.2013.01
II	1 pole	-	GSF2.1010.01
II	2-pole	-	GSF2.2010.01

Packaging unit 50 Pcs

Mating Outlets/Connectors

Category / Description

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

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

Plug removal necessary for fuse replacement



KEA



KEA

**Description**

- Panel Mount:
Screw-on version from front or rear side, snap-in version from front side
- 3 Functions:
Appliance Inlet Protection class I, Fuseholder for fuse-links 5 x 20 mm 1- or 2-pole, with or without voltage selector (step switch)
- Quick connect terminals 4.8 x 0.8 mm
- Alternative: version with line filter [KFA](#)

Approvals

- VDE License Number: 40012272
- UL License Number: E93617
- CSA License Number: 38456

Characteristics

- Available with or without internal connections
- Plug removal necessary for fuse-link replacement
The fuse drawer "Fingergrip" can be removed by hand
For added safety "Extra-Safe" fuse drawers are available
Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuseholder is accessible from the equipment front
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- With solder terminals
- Fuse drawer with other voltage values
- For protection class II

References

[General Product Information](#)

Weblinks

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

Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 3 kVAC between L-N > 4 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
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 terminals 4.8 x 0.8 mm
Panel Thickness s	Screw-on: max 8 mm Mounting screw torque max 0.5 Nm Snap-in: 1.5 / 2 / 2.5 mm
Material: Housing	Thermoplastic, black, UL 94V-0

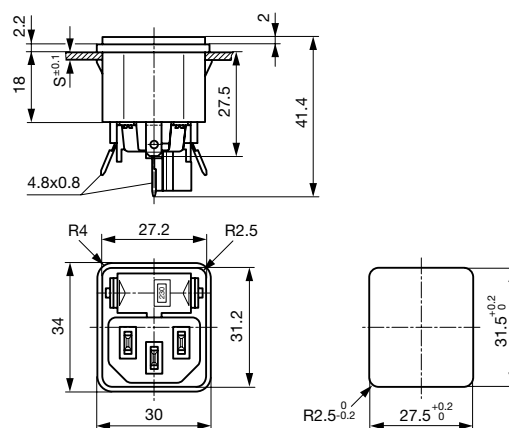
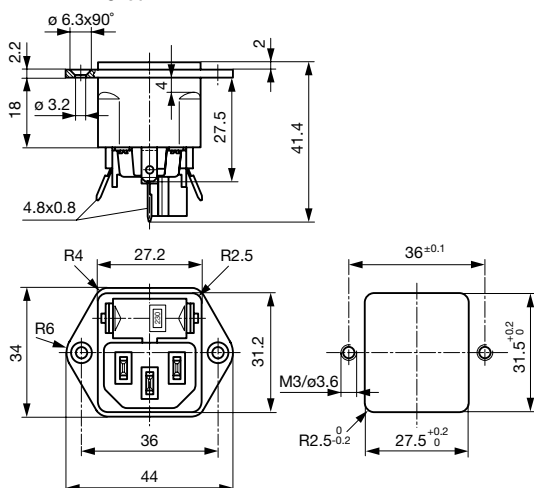
Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2 W (1 pole)/ 1.6 W (2-pole) per pole
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves
Voltage selector	optional, step, 2-4 digits

Dimensions

Screw-on mounting type KEA

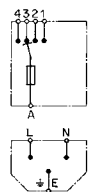
Length | 44 mm

Snap-in mounting type KEA

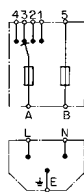


Diagrams

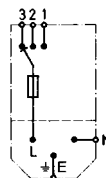
without internal connections
voltage selector
4-positions
1-pole



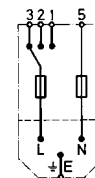
without internal connections
voltage selector
4-positions
2-pole



with internal connections
voltage selector
3-positions
1-pole



with internal connections
voltage selector
3-positions
2-pole



voltage selector
2-positions
1-pole



voltage selector
2-positions
2-pole



without voltage selector
1-pole

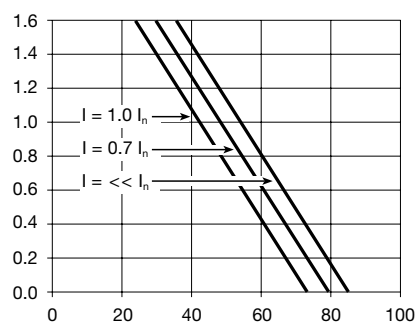
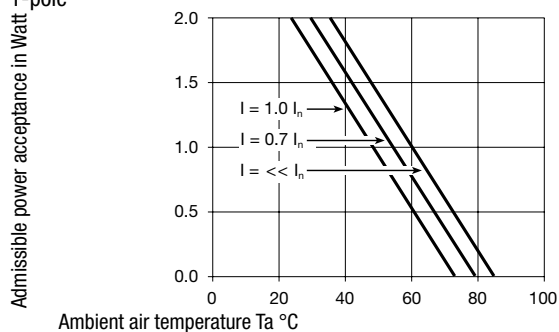


without voltage selector
2-pole



Derating Curves

1-pole



Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Fingergrip and Extra-Safe

Fuse drawer must be ordered separately

Type	Panel mounting	Panel Thickness s [mm]	Fuseholder	Voltage selector	internally wired	Order Number
KEA	Screw-on	-	1 pole	3 digits		4301.0021
KEA	Screw-on	-	1 pole	3/4 digits		4301.2061
KEA	Screw-on	-	1 pole	without		4301.0521
KEA	Screw-on	-	2-pole	3 digits		4301.0001
KEA	Screw-on	-	2-pole	3/4 digits		4301.2041
KEA	Screw-on	-	2-pole	without		4301.0501
KEA	Snap-in	1.5	1 pole	3 digits		4301.0022
KEA	Snap-in	2	1 pole	3 digits		4301.0023
KEA	Snap-in	2.5	1 pole	3 digits		4301.0024
KEA	Snap-in	1.5	1 pole	3/4 digits		4301.2062
KEA	Snap-in	2	1 pole	3/4 digits		4301.2063
KEA	Snap-in	2.5	1 pole	3/4 digits		4301.2064
KEA	Snap-in	1.5	1 pole	without		4301.0522
KEA	Snap-in	2	1 pole	without		4301.0523
KEA	Snap-in	2.5	1 pole	without		4301.0524
KEA	Snap-in	1.5	2-pole	3 digits		4301.0002
KEA	Snap-in	2	2-pole	3 digits		4301.0003
KEA	Snap-in	2.5	2-pole	3 digits		4301.0004
KEA	Snap-in	1.5	2-pole	3/4 digits		4301.2042
KEA	Snap-in	2	2-pole	3/4 digits		4301.2043
KEA	Snap-in	2.5	2-pole	3/4 digits		4301.2044
KEA	Snap-in	1.5	2-pole	without		4301.0502
KEA	Snap-in	2	2-pole	without		4301.0503
KEA	Snap-in	2.5	2-pole	without		4301.0504

Packaging unit 50 Pcs

Required Accessory

Description

Fusedrawer 2

Fusedrawer with and without voltage selector insert



Fingergrip, 2-pole, Voltage selector, 110, 150, 220	4301.1014.01
Fingergrip, 2-pole, Voltage selector, 120, 240	4301.1014.02
Fingergrip, 2-pole, Voltage selector, 110, 220	4301.1014.03
Fingergrip, 2-pole, Voltage selector, 115, 220	4301.1014.04

...

Accessory



Assorted Covers
Rear Cover

0859.0047



Cord retaining kits
Cord retaining strain relieve

Flat head, A

4700.0001

Countersunk, B

4700.0002

Mating Outlets/Connectors

Category / Description



Appliance Outlet

IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal

4787

IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal

4788

IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal

5091

IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal

5092

Connector



IEC cord connector C15, rewirable, straight

0101

IEC cord connector C15A, rewirable, straight

0102

IEC cord connector C15A, rewirable, straight

0102-G

IEC cord connector C15A, rewirable, angled

0112

IEC cord connector C13, rewirable, angled

4012

IEC cord connector C13, rewirable, angled

4013

IEC cord connector C13, rewirable, straight

4020

IEC cord connector C13, rewirable, straight

4021

IEC cord connector C13, rewirable, straight

4022

IEC cord connector C13, rewirable, angled

4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C

0311

Power Cord with IEC Appliance Connector C13, angled, 70°C

3011

Power Cord with IEC Appliance Connector C13, angled, 70°C

3012

Power Cord with IEC Appliance Connector C13, angled, 70°C

3013

Power Cord with IEC Appliance Connector C13, 70°C

3020

Power Cord with IEC Appliance Connector C13, straight, 70°C

3027

Power Cord with IEC Appliance Connector C13, straight, 70°C

302U

Power Cord with IEC Appliance Connector C13, straight, 70°C

3030

Power Cord with IEC Appliance Connector C13, angled, 70°C

311L

Power Cord with IEC Appliance Connector C13, angled, 70°C

312L

...

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

Plug removal necessary for fuse replacement



KEA-Print



KEA-Print

**Description**

- Panel Mount:
Screw-on version from front or rear side, snap-in version from front side
- 2 Functions:
Appliance Inlet Protection class I, Fuseholder for fuse-links 5 x 20 mm 1- or 2-pole
- For PCB mounting

Approvals

- VDE License Number: 40012272

Characteristics

- All single elements are already wired
- Plug removal necessary for fuse-link replacement
The fuse drawer "Fingergrip" can be removed by hand
For added safety "Extra-Safe" fuse drawers are available
Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuseholder is accessible from the equipment front
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- With solder terminals
- Fuse drawer with other voltage values
- For protection class II

References

[General Product Information](#)

Weblinks

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

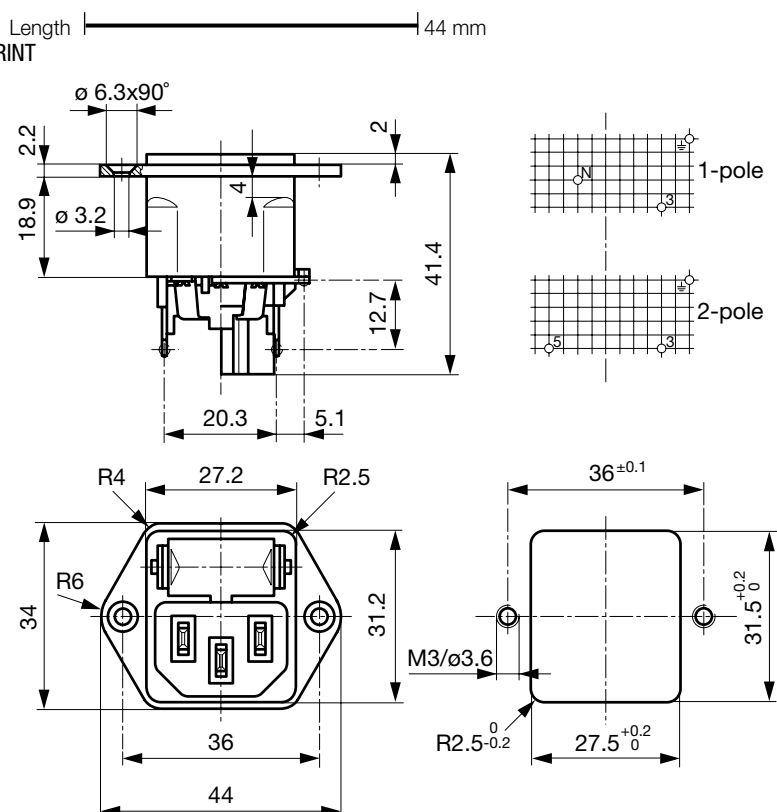
Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 3 kVAC between L-N > 4 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
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	For PCB 1,6 mm
Panel Thickness s	Screw-on: max 8 mm Mounting screw torque max 0.5 Nm Snap-in: 1.5 / 2 / 2.5 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2 W (1 pole)/ 1.6 W (2-pole) per pole
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves

Dimensions

Screw-on mounting type KEA-PRINT

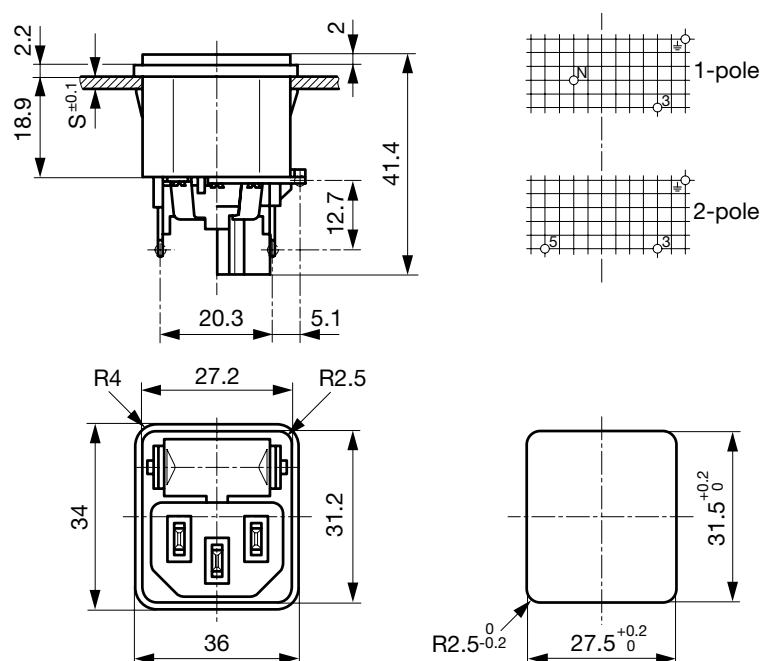


Template grid 1/10" = 2.54 mm

Drill. Ø: 3/5/N = Ø 1.3 + 0,1/0

Gnd = Ø 1.6 + 0,1/0

Snap-in mounting type KEA-PRINT

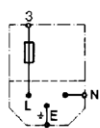


Template grid 1/10" = 2.54 mm

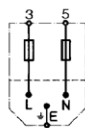
Drill Ø: 3/5/N = Ø 1.3 + 0,1/0

Gnd = Ø 1.6 + 0,1/0

Diagrams

with internal connections
1-pole

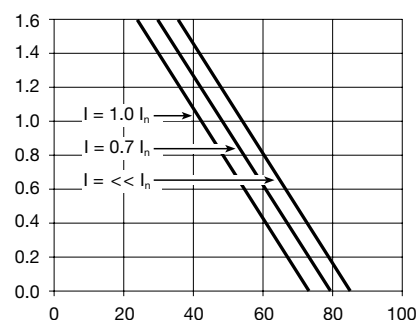
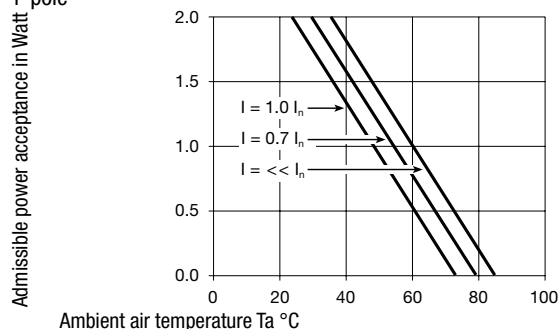
(KEA-Print)

with internal connections
2-pole

(KEA-Print)

Derating Curves

1-pole



Variants

Fingerrip and Extra-Safe

internal connections, fuse drawer must be ordered separately

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

Type	Panel mounting	Panel Thickness s [mm]	Fuseholder	Voltage selector	internally wired	Order Number
KEA-Print	Screw-on	-	1 pole	without		4301.3211
KEA-Print	Screw-on	-	2-pole	without		4301.3201
KEA-Print	Snap-in	1.5	1 pole	without		4301.3212
KEA-Print	Snap-in	2	1 pole	without		4301.3213
KEA-Print	Snap-in	2.5	1 pole	without		4301.3214
KEA-Print	Snap-in	1.5	2-pole	without		4301.3202
KEA-Print	Snap-in	2	2-pole	without		4301.3203
KEA-Print	Snap-in	2.5	2-pole	without		4301.3204

Packaging unit 50 Pcs

Required Accessory

Description

Fusedrawer 2

Fusedrawer with and without voltage selector insert



Fingerrip, 2-pole	4301.1401
Extra-Safe, 2-pole	4301.1403
Fingerrip, 1 pole	4301.1405
Extra-Safe, 1 pole	4301.1407
...	

Accessory



Cord retaining kits

Cord retaining strain relieve

Flat head, A	4700.0001
Countersunk, B	4700.0002

Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C14 with Fuseholder 1-pole

Types 6200, 6205

Types 6200, 6205



1-pole

1-pole

Type 6202: for protection class II

C14



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, Fuseholder for fuse-links 5 x 20 mm 1-pole
- Solder terminals or quick connect terminals
- Alternative: version with line filter [5200](#)
- Alternative: Fuseholder 2-pole [6220](#)

Approvals

- VDE License Number: 40011091
- UL License Number: E93617
- CSA License Number: 38456

Characteristics

- All single elements are already wired
- Plug removal necessary for fuse-link replacement
The fuseholder is accessible from the equipment front
With spare fuse compartment
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Types for rivet mounting available upon request

References
[General Product Information](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

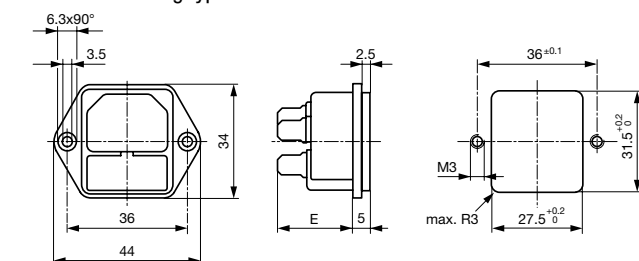
Ratings IEC	10A / 250VAC; 50Hz
Ratings UL/CSA	10A / 250VAC; 60Hz
Dielectric Strength	> 2kVAC between L-N > 2kVAC between L/N-PE (1 min/50Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals, tin-plated
Panel Thickness s	Screw-on: max 6mm Mounting screw torque max 0.5Nm Snap-in: 1 / 1.5 / 2 / 2.5 / 3 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection class I
Fuseholder	1 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2W (1 pole)
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves

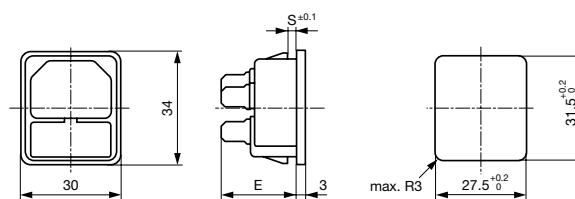
Dimensions

Screw-on mounting types 6200/05

Snap-in mounting types 6200/05



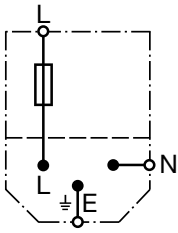
E: solder terminals 20.5 mm
E: quick-connect terminals 23.5 mm



E: solder terminals 22.5 mm
E: quick-connect terminals 25.5 mm
S: 1.0/1.5/2.0/2.5/3.0 mm

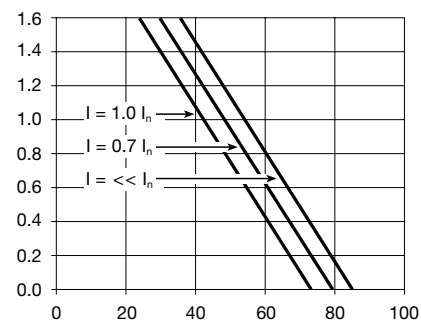
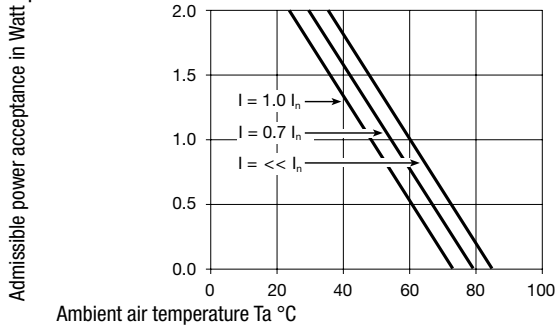
Diagrams

6200/05



Derating Curves

1-pole



Variants

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

Socket and fuse-carrier included

Protection Class	Panel mounting	Panel Thickness s [mm]	Fuseholder	Terminal	internally wired	Order Number
I	Screw-on	-	1 pole	Quick connect terminals 4.8 x 0.8 mm		6200.2200
I	Screw-on	-	1 pole	Quick connect terminals 6.3 x 0.8 mm		6200.2300
I	Screw-on	-	1 pole	Solder terminals 3.8 x 0.8 mm		6200.2100
I	Snap-in	1	1 pole	Quick connect terminals 4.8 x 0.8 mm		6200.4210
I	Snap-in	1.5	1 pole	Quick connect terminals 4.8 x 0.8 mm		6200.4215
I	Snap-in	2	1 pole	Quick connect terminals 4.8 x 0.8 mm		6200.4220
I	Snap-in	2.5	1 pole	Quick connect terminals 4.8 x 0.8 mm		6200.4225
I	Snap-in	3	1 pole	Quick connect terminals 4.8 x 0.8 mm		6200.4230
I	Snap-in	1	1 pole	Quick connect terminals 6.3 x 0.8 mm		6200.4310
I	Snap-in	1.5	1 pole	Quick connect terminals 6.3 x 0.8 mm		6200.4315
I	Snap-in	2	1 pole	Quick connect terminals 6.3 x 0.8 mm		6200.4320
I	Snap-in	2.5	1 pole	Quick connect terminals 6.3 x 0.8 mm		6200.4325
I	Snap-in	3	1 pole	Quick connect terminals 6.3 x 0.8 mm		6200.4330
I	Snap-in	1	1 pole	Solder terminals 3.8 x 0.8 mm		6200.4110
I	Snap-in	1.5	1 pole	Solder terminals 3.8 x 0.8 mm		6200.4115
I	Snap-in	2	1 pole	Solder terminals 3.8 x 0.8 mm		6200.4120
I	Snap-in	2.5	1 pole	Solder terminals 3.8 x 0.8 mm		6200.4125
I	Snap-in	3	1 pole	Solder terminals 3.8 x 0.8 mm		6200.4130

Packaging unit

50 Pcs

Accessory

Description



Assorted Covers
Rear Cover

0859.0047

4311.9403



Cord retaining kits
Cord retaining strain relieve

Flat head, A

4700.0001

Countersunk, B

4700.0002

Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal

4787

IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal

4788

IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal

5091

IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal

5092

Connector



IEC cord connector C15, rewirable, straight

0101

IEC cord connector C15A, rewirable, straight

0102

IEC cord connector C15A, rewirable, straight

0102-G

IEC cord connector C15A, rewirable, angled

0112

IEC cord connector C13, rewirable, angled

4012

IEC cord connector C13, rewirable, angled

4013

IEC cord connector C13, rewirable, straight

4020

IEC cord connector C13, rewirable, straight

4021

IEC cord connector C13, rewirable, straight

4022

IEC cord connector C13, rewirable, angled

4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C

0311

Power Cord with IEC Appliance Connector C13, angled, 70°C

3011

Power Cord with IEC Appliance Connector C13, angled, 70°C

3012

Power Cord with IEC Appliance Connector C13, angled, 70°C

3013

Power Cord with IEC Appliance Connector C13, 70°C

3020

Power Cord with IEC Appliance Connector C13, straight, 70°C

3027

Power Cord with IEC Appliance Connector C13, straight, 70°C

302U

Power Cord with IEC Appliance Connector C13, straight, 70°C

3030

Power Cord with IEC Appliance Connector C13, angled, 70°C

311L

Power Cord with IEC Appliance Connector C13, angled, 70°C

312L

...

IEC Appliance Connector C18 with Fuseholder 1-pole



C18



70 °C

**Description**

- Panel Mount:
Screw-on from front or rear-side
- 2 Functions:
Appliance Inlet Protection class II, Fuseholder for fuse-links 5 x 20 mm 1-pole
- Solder terminals or quick connect terminals Alternative: Version in protection class I [6200](#)

Approvals

- VDE License Number: 40011091
- UL License Number: E93617
- CSA License Number: 32338

Characteristics

- All single elements are already wired
- Plug removal necessary for fuse-link replacement
The fuseholder is accessible from the equipment front
With spare fuse compartment
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Types for rivet mounting available upon request

References

[General Product Information](#)

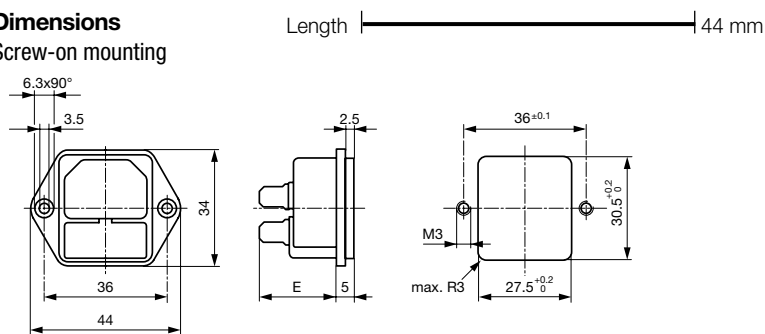
Weblinks

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

Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 4 kVAC between L-N (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class II acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals, tin-plated
Panel Thickness s	Screw-on: max 6 mm Mounting screw torque max 0.5 Nm
Material: Housing	Thermoplastic, black, UL 94V-0

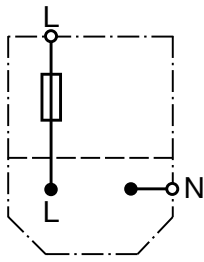
Appliance-Inlet/-Outlet	C18 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class II
Fuseholder	1 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2 W (1 pole)
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves

Dimensions**Screw-on mounting**

E: solder terminals 20.5 mm

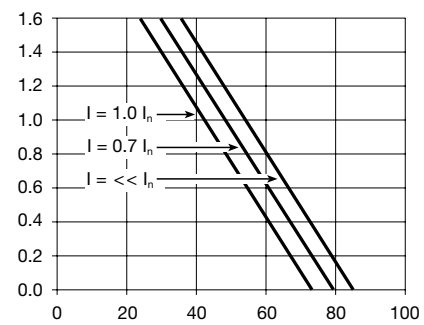
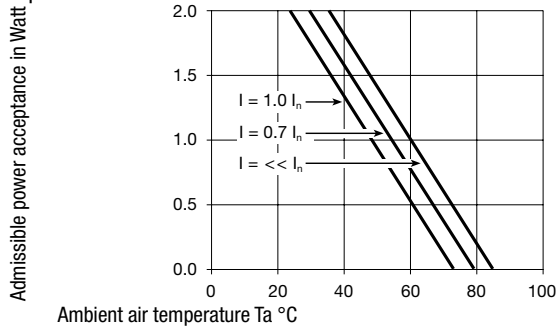
E: quick-connect terminals 23.5 mm

Diagrams



Derating Curves

1-pole



Variants

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

Socket and fuse-carrier included

Protection Class	Panel mounting	Panel Thickness s [mm]	Fuseholder	Terminal	internally wired	Order Number
II	Screw-on	-	1 pole	Quick connect terminals 4.8 x 0.8 mm		6202.2200
II	Screw-on	-	1 pole	Quick connect terminals 6.3 x 0.8 mm		6202.2300
II	Screw-on	-	1 pole	Solder terminals 3.8 x 0.8 mm		6202.2100

Packaging unit 50 Pcs

Accessory

Description


[Assorted Covers](#)
Rear Cover

0859.0047

4311.9403

Mating Outlets/Connectors

Category / Description

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C17, angled, 70°C	0301
Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C17, angled, 70°C	3113

...

IEC Appliance Connector C14 with Fuseholder 1-pole

Types 6200, 6205

Types 6200, 6205



1-pole

1-pole

Type 6202: for protection class II

C14



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, Fuseholder for fuse-links 5 x 20 mm 1-pole
- Solder terminals or quick connect terminals

Approvals

- VDE License Number: 40011091
- UL License Number: E93617
- CSA License Number: 38456

Characteristics

- Unwired
- Plug removal necessary for fuse-link replacement
The fuseholder is accessible from the equipment front
With spare fuse compartment
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Types for rivet mounting available upon request

References
[General Product Information](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

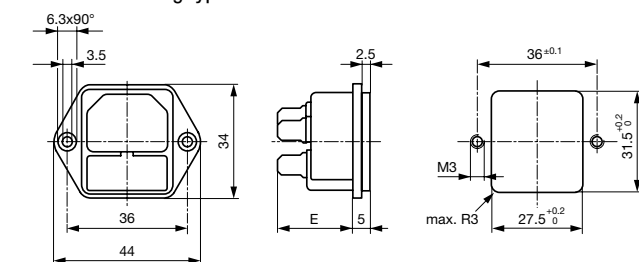
Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 2 kVAC between L-N > 2 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals, tin-plated
Panel Thickness s	Screw-on: max 6 mm Mounting screw torque max 0.5 Nm Snap-in: 1 / 1.5 / 2 / 2.5 / 3 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	1 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2 W (1 pole)
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves

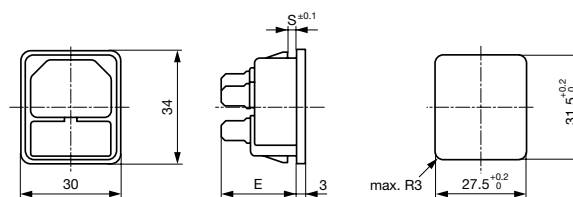
Dimensions

Screw-on mounting types 6200/05

Snap-in mounting types 6200/05



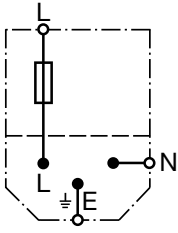
E: solder terminals 20.5 mm
E: quick-connect terminals 23.5 mm



E: solder terminals 22.5 mm
E: quick-connect terminals 25.5 mm
S: 1.0/1.5/2.0/2.5/3.0 mm

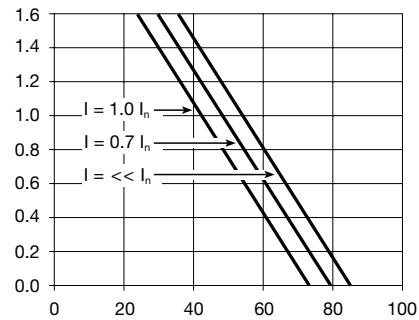
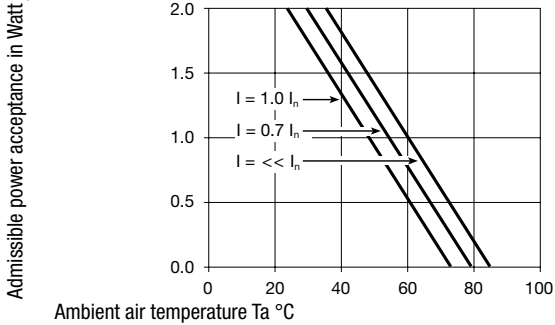
Diagrams

6200/05



Derating Curves

1-pole



Variants

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

Socket and fuse-carrier included

Protection Class	Panel mounting	Panel Thickness s [mm]	Fuseholder	Terminal	internally wired	Order Number
I	Screw-on	-	1 pole	Quick connect terminals 4.8 x 0.8 mm		6205.2200
I	Screw-on	-	1 pole	Quick connect terminals 6.3 x 0.8 mm		6205.2300
I	Screw-on	-	1 pole	Solder terminals		6205.2100
I	Snap-in	1.5	1 pole	Quick connect terminals 4.8 x 0.8 mm		6205.4215
I	Snap-in	2	1 pole	Quick connect terminals 4.8 x 0.8 mm		6205.4220
I	Snap-in	3	1 pole	Quick connect terminals 4.8 x 0.8 mm		6205.4230
I	Snap-in	1	1 pole	Quick connect terminals 6.3 x 0.8 mm		6205.4310
I	Snap-in	2	1 pole	Quick connect terminals 6.3 x 0.8 mm		6205.4320
I	Snap-in	3	1 pole	Quick connect terminals 6.3 x 0.8 mm		6205.4330
I	Snap-in	1	1 pole	Solder terminals		6205.4110
I	Snap-in	1	1 pole	Solder terminals		6205.4210
I	Snap-in	1.5	1 pole	Solder terminals		6205.4115
I	Snap-in	1.5	1 pole	Solder terminals		6205.4315
I	Snap-in	2	1 pole	Solder terminals		6205.4120
I	Snap-in	2.5	1 pole	Solder terminals		6205.4125
I	Snap-in	2.5	1 pole	Solder terminals		6205.4225
I	Snap-in	2.5	1 pole	Solder terminals		6205.4325
I	Snap-in	3	1 pole	Solder terminals		6205.4130

Packaging unit

50 Pcs

Accessory

Description



Assorted Covers
Rear Cover

0859.0047

4311.9403

Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
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IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
---	------

IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
---	------

IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092
---	------

Connector



IEC cord connector C15, rewirable, straight	0101
---	------

IEC cord connector C15A, rewirable, straight	0102
--	------

IEC cord connector C15A, rewirable, straight	0102-G
--	--------

IEC cord connector C15A, rewirable, angled	0112
--	------

IEC cord connector C13, rewirable, angled	4012
---	------

IEC cord connector C13, rewirable, angled	4013
---	------

IEC cord connector C13, rewirable, straight	4020
---	------

IEC cord connector C13, rewirable, straight	4021
---	------

IEC cord connector C13, rewirable, straight	4022
---	------

IEC cord connector C13, rewirable, angled	4300-06
---	---------

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
---	------

Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
---	------

Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
---	------

Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
---	------

Power Cord with IEC Appliance Connector C13, 70°C	3020
---	------

Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
---	------

Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
---	------

Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
---	------

Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
---	------

Power Cord with IEC Appliance Connector C13, angled, 70°C	312L
---	------

...

IEC Appliance Connector C14 with Fuseholder 2-pole

Type 6220

Type 6220

Plug removal necessary for fuse replacement



2-pole



2-pole

C14



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, Fuseholder for fuse-links 5 x 20 mm 2-pole
- Solder terminals or quick connect terminals
- Alternative: version with line filter [5220](#)
- Alternative: Fuseholder 1-pole [6200](#); [6202](#)

Approvals

- VDE License Number: 40011091
- UL License Number: E93617
- CSA License Number: 38456

Characteristics

- All single elements are already wired
- Plug removal necessary for fuse-link replacement
Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuseholder is accessible from the equipment front
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Types for rivet mounting available upon request

References

[General Product Information](#)

Weblinks

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

Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 2 kVAC between L-N > 2 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
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 terminals or quick connect terminals, tin-plated
Panel Thickness s	Screw-on: max 6 mm Mounting screw torque max 0.5 Nm Snap-in: 1 / 1.5 / 2 / 2.5 / 3 mm
Material: Housing	Thermoplastic, black, UL 94V-0

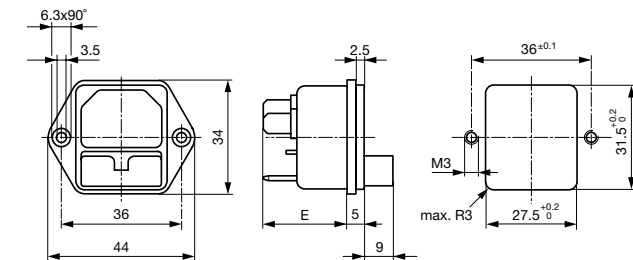
Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	2-pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 1.6 W 2-pole
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves

Dimensions

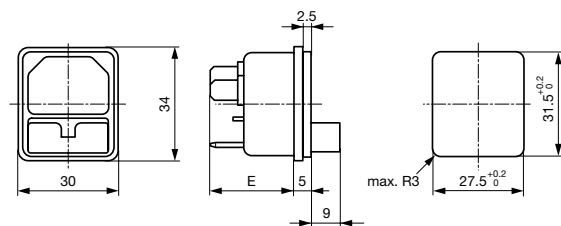
Screw-on mounting type 6220

Length | 44 mm

Snap-in mounting type 6220



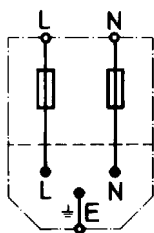
E: solder terminals 20.5 mm
E: quick-connect terminals 23.5 mm



E: solder terminals 22.5 mm
E: quick-connect terminals 25.5 mm
S: 1.0/1.5/2.0/2.5/3.0 mm

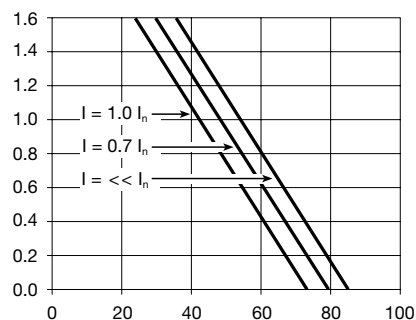
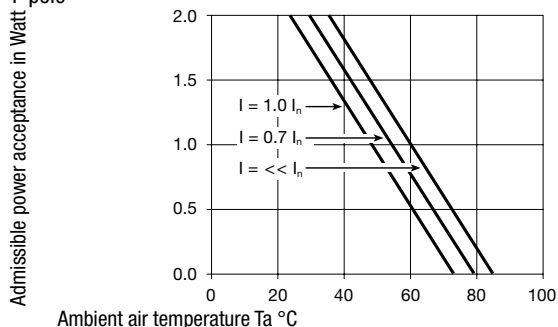
Diagrams

6220



Derating Curves

1-pole



Variants

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

Socket and fuse-carrier included

Protection Class	Panel mounting	Panel Thickness s [mm]	Fuseholder	Terminal	internally wired	Order Number
I	Screw-on	-	2-pole	Quick connect terminals 4.8 x 0.8 mm		6220.2200
I	Screw-on	-	2-pole	Quick connect terminals 6.3 x 0.8 mm		6220.2300
I	Screw-on	-	2-pole	Solder terminals 3.8 x 0.8 mm		6220.2100
I	Snap-in	1	2-pole	Quick connect terminals 4.8 x 0.8 mm		6220.5210
I	Snap-in	1.5	2-pole	Quick connect terminals 4.8 x 0.8 mm		6220.5215
I	Snap-in	2	2-pole	Quick connect terminals 4.8 x 0.8 mm		6220.5220
I	Snap-in	2.5	2-pole	Quick connect terminals 4.8 x 0.8 mm		6220.5225
I	Snap-in	3	2-pole	Quick connect terminals 4.8 x 0.8 mm		6220.5230
I	Snap-in	1	2-pole	Quick connect terminals 6.3 x 0.8 mm		6220.5310
I	Snap-in	1.5	2-pole	Quick connect terminals 6.3 x 0.8 mm		6220.5315
I	Snap-in	2	2-pole	Quick connect terminals 6.3 x 0.8 mm		6220.5320
I	Snap-in	2.5	2-pole	Quick connect terminals 6.3 x 0.8 mm		6220.5325
I	Snap-in	3	2-pole	Quick connect terminals 6.3 x 0.8 mm		6220.5330
I	Snap-in	1	2-pole	Solder terminals 3.8 x 0.8 mm		6220.5110
I	Snap-in	1.5	2-pole	Solder terminals 3.8 x 0.8 mm		6220.5115
I	Snap-in	2	2-pole	Solder terminals 3.8 x 0.8 mm		6220.5120
I	Snap-in	2.5	2-pole	Solder terminals 3.8 x 0.8 mm		6220.5125
I	Snap-in	3	2-pole	Solder terminals 3.8 x 0.8 mm		6220.5130

Packaging unit

50 Pcs

Accessory

Description



Assorted Covers

Rear Cover

0859.0047
4311.9403



Cord retaining kits

Cord retaining strain relieve

Flat head, A 4700.0001
Countersunk, B 4700.0002

Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal 4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal 4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal 5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal 5092

Connector



IEC cord connector C15, rewirable, straight 0101
IEC cord connector C15A, rewirable, straight 0102
IEC cord connector C15A, rewirable, straight 0102-G
IEC cord connector C15A, rewirable, angled 0112
IEC cord connector C13, rewirable, angled 4012
IEC cord connector C13, rewirable, angled 4013
IEC cord connector C13, rewirable, straight 4020
IEC cord connector C13, rewirable, straight 4021
IEC cord connector C13, rewirable, straight 4022
IEC cord connector C13, rewirable, angled 4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C 0311
Power Cord with IEC Appliance Connector C13, angled, 70°C 3011
Power Cord with IEC Appliance Connector C13, angled, 70°C 3012
Power Cord with IEC Appliance Connector C13, angled, 70°C 3013
Power Cord with IEC Appliance Connector C13, 70°C 3020
Power Cord with IEC Appliance Connector C13, straight, 70°C 3027
Power Cord with IEC Appliance Connector C13, straight, 70°C 302U
Power Cord with IEC Appliance Connector C13, straight, 70°C 3030
Power Cord with IEC Appliance Connector C13, angled, 70°C 311L
Power Cord with IEC Appliance Connector C13, angled, 70°C 312L

...

IEC Appliance Connector C14 with Fuseholder, 70°C



Screw-On Version

**Description**

- Panel Mount:
Screw-on version from front or rear side, Appliance Inlet, protection class I or II, Fuseholder for fuse-links 5 x 20 mm
- Solder terminals or quick connect terminals

Approvals

- UL License Number: E88880
- CSA License Number: 1084381

Characteristics

- The fuse drawer "Fingergrip" can be removed by hand
- The fuseholder is accessible from the equipment front

References

[General Product Information](#)

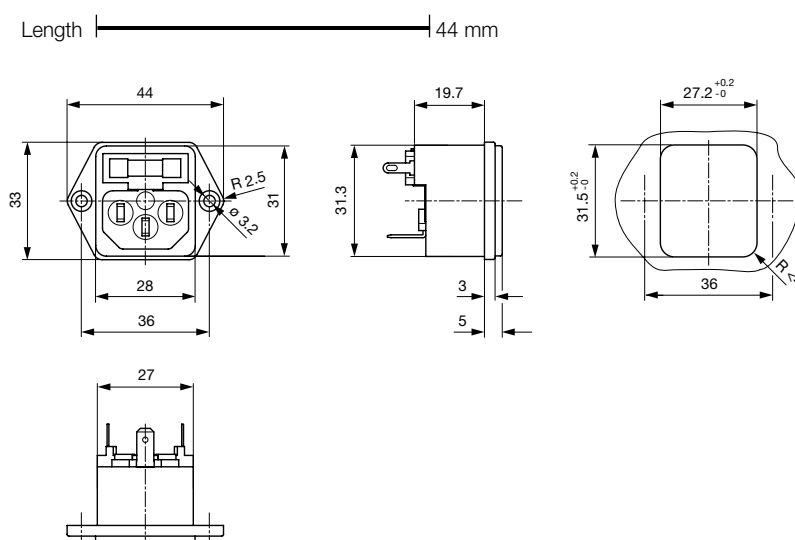
Weblinks

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

Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 3 kVAC between L-N > 1.5 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I or II acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals
Material: Housing	UL 94V-0

Appliance-Inlet/-Outlet	C14/C18 acc. to IEC/EN 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	1 or 2 pole, acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves

Dimensions

length of the terminal please find at the order code configuration table

Packaging unit 200 Pcs

Accessory

Description



Assorted Covers
Rear Cover

Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C18 with Fuseholder, 70°C



C18

 70° C

**Description**

- Panel Mount:
Screw-on version from front or rear side, Appliance Inlet, Protection class II, Fuseholder for fuse-links 5 x 20 mm
- Solder terminals or quick connect terminals

Approvals

- UL License Number: E88880
- CSA License Number: 1084381

Characteristics

- The fuse drawer "Fingergrip" can be removed by hand
- The fuseholder is accessible from the equipment front

References

[General Product Information](#)

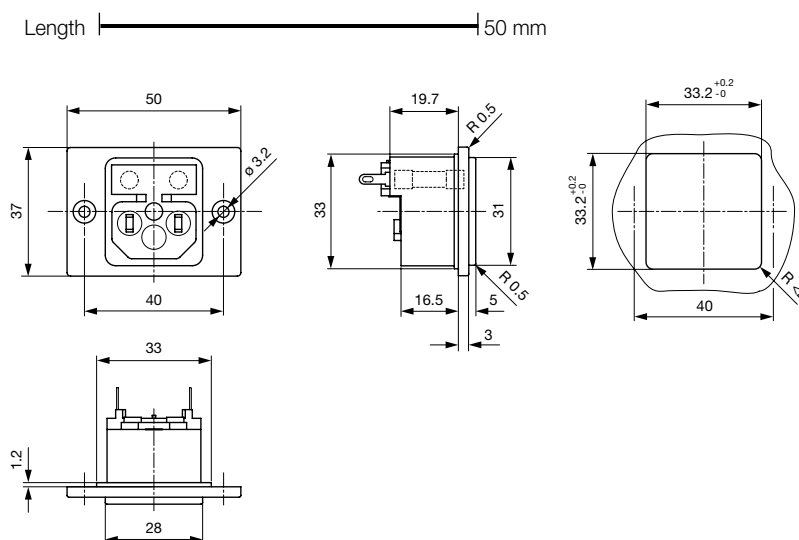
Weblinks

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

Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 3 kVAC between L-N > 1.5 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class II acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals
Material: Housing	UL 94V-0

Appliance-Inlet/-Outlet	C18 acc. to IEC/EN 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class II
Fuseholder	2-pole, acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves

Dimensions

length of the terminal please find at the order code configuration table

Mating Outlets/Connectors

Category / Description

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C17, angled, 70°C	0301
Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C17, angled, 70°C	3113

...

IEC Appliance Connector C18 with Fuseholder, 70°C



Screw-On Version

**Description**

- Panel Mount:

Screw-on version from front or rear side, Appliance Inlet, Protection class II, Fuseholder for fuse-links 5 x 20 mm

- Solder terminals or quick connect terminals

Approvals

- UL License Number: E88880
- CSA License Number: 1084381

References

[General Product Information](#)

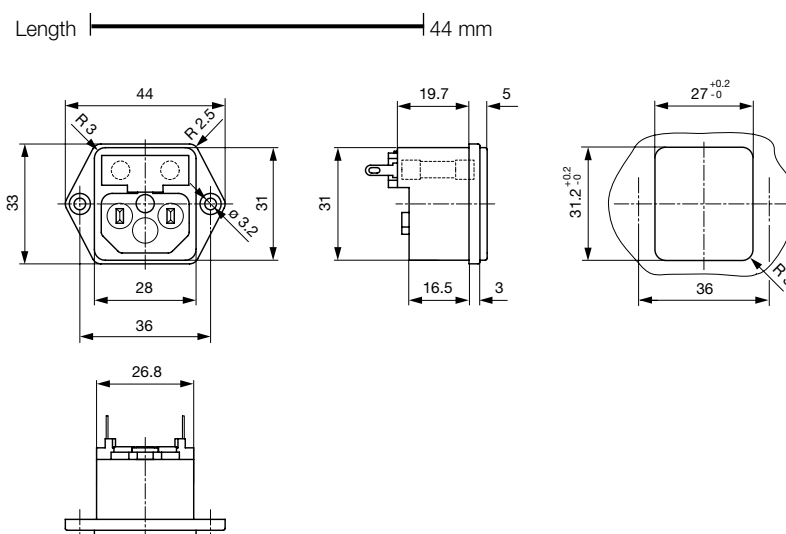
Weblinks

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

Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 3 kVAC between L-N > 1.5 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class II acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals
Material: Housing	UL 94V-0

Appliance-Inlet/-Outlet	C18 acc. to IEC/EN 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class II
Fuseholder	1 or 2 pole, acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves

Dimensions

length of the terminal please find at the order code configuration table

Packaging unit

50 Pcs

Accessory

Description



Assorted Covers
Rear Cover

Mating Outlets/Connectors

Category / Description

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C17, angled, 70°C	0301
Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C17, angled, 70°C	3113

...

IEC Appliance Connector C14 with Fuseholder, 70°C



Screw-On Version

**Description**

- Panel Mount:
Screw-on version from front or rear side, Appliance Inlet, Protection class I, Fuseholder for fuse-links 5 x 20 mm
- Solder terminals or quick connect terminals

Approvals

- VDE License Number: 4E+07
- UL License Number: E88880
- CSA License Number: 1084381

Characteristics

- The fuse drawer "Fingergrip" can be removed by hand
- The fuseholder is accessible from the equipment front

References

[General Product Information](#)

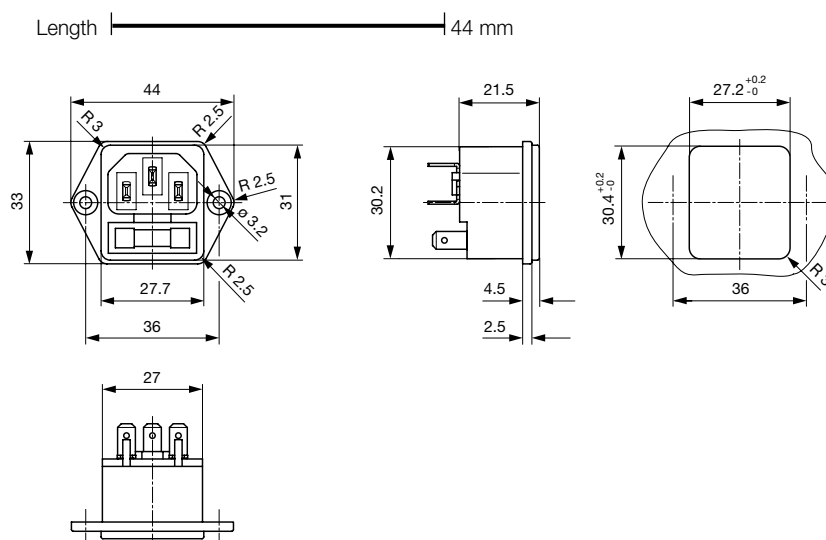
Weblinks

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

Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 3 kVAC between L-N > 1.5 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals
Material: Housing	UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	1 or 2 pole, acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves

Dimensions

length of the terminal please find at the order code configuration table

Packaging unit

50 Pcs

Accessory

Description



Assorted Covers
Rear Cover

Mating Outlets/Connectors

Category / Description

Connector



IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06
IEC cord connector C13, rewirable, straight	4782
IEC cord connector C13, rewirable, angled	4785

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C18 with Fuseholder, 70°C

new



Screw-On Version

**Description**

- Panel Mount:

Screw-on version from front or rear side, Appliance Inlet, Protection class II, Fuseholder for fuse-links 5 x 20 mm

- Solder terminals or quick connect terminals

Approvals

- VDE License Number: 40013344

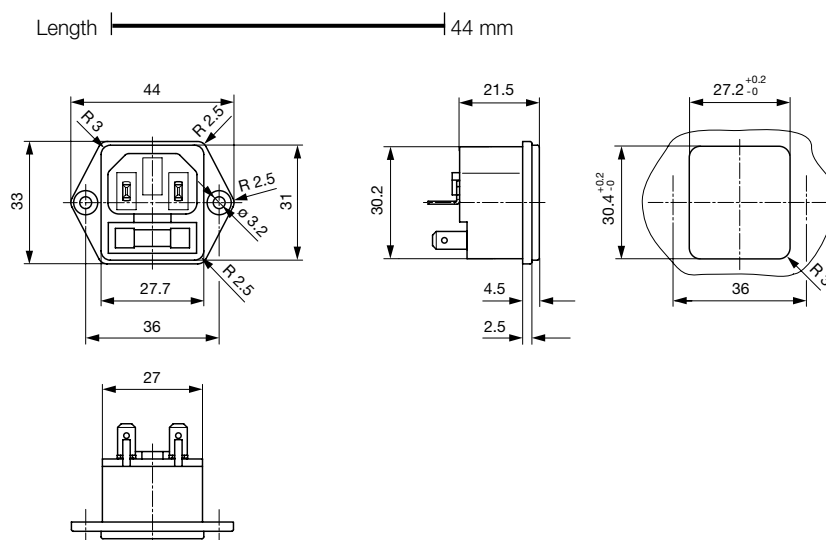
- UL License Number: E88880

- CSA License Number: 1084381

References[General Product Information](#)**Weblinks**[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)**Technical Data**

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 3 kVAC between L-N > 1.5 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class II acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals
Material: Housing	UL 94V-0

Appliance-Inlet/-Outlet	C18 acc. to IEC/EN 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class II
Fuseholder	1 pole, acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves

Dimensions

length of the terminal please find at the order code configuration table

Packaging unit

50 Pcs

Accessory

Description



Assorted Covers
Rear Cover

Mating Outlets/Connectors

Category / Description

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C17, angled, 70°C	0301
Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C17, angled, 70°C	3113

...

IEC Appliance Connector C14 with Fuseholder, 70°C



Snap-In Version

**Description**

- Panel Mount:
Snap-in version, from front side Appliance Inlet, Protection class I, Fuseholder for fuse-links 5 x 20 mm
- Solder terminals or quick connect terminals

Approvals

- UL License Number: E88880
- CSA License Number: 1084381

Characteristics

- The fuse drawer "Fingergrip" can be removed by hand
- The fuseholder is accessible from the equipment front

References

[General Product Information](#)

Weblinks

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

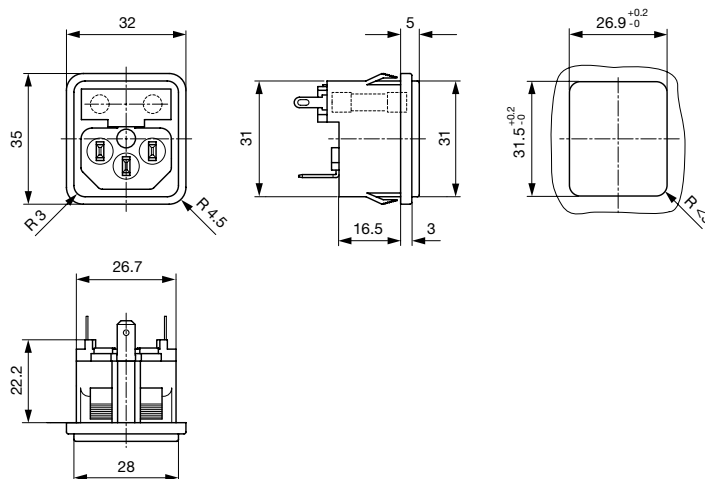
Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 3 kVAC between L-N > 1.5 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I or II acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals
Panel Thickness s	Snap-in 1.0 - 1.5 / 2.0 - 2.5 mm
Material: Housing	UL 94V-0

Appliance-Inlet/-Outlet	C14/C18 acc. to IEC/EN 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I or II
Fuseholder	1 or 2 pole, acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves

Dimensions

Length | 32 mm



length of the terminal please find at the order code configuration table

Packaging unit

50 Pcs

Accessory

Description



Assorted Covers
Rear Cover

Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord

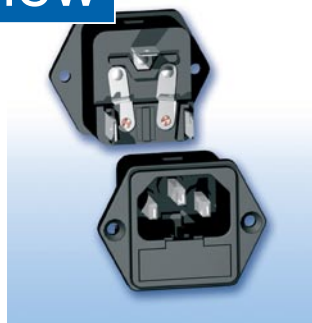


Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C14 with Fuseholder, 70°C

new



Screw-On Version

C14



70 °C

**Description**

- Panel Mount:
- Screw-on from front side,
- Appliance Inlet,
- Protection class I Fuseholder for fuse-links 5 x 20 mm 2-pole, Protection class I, Pin temperature 70 °C
- Solder terminals or quick connect terminals

Approvals

- CSA License Number: 1084381

Characteristics

- The fuseholder is accessible from the equipment front
- The fuse drawer "Fingergrip" can be removed by hand
- With or without rear-side insulation cover

References

[General Product Information](#)

Weblinks

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

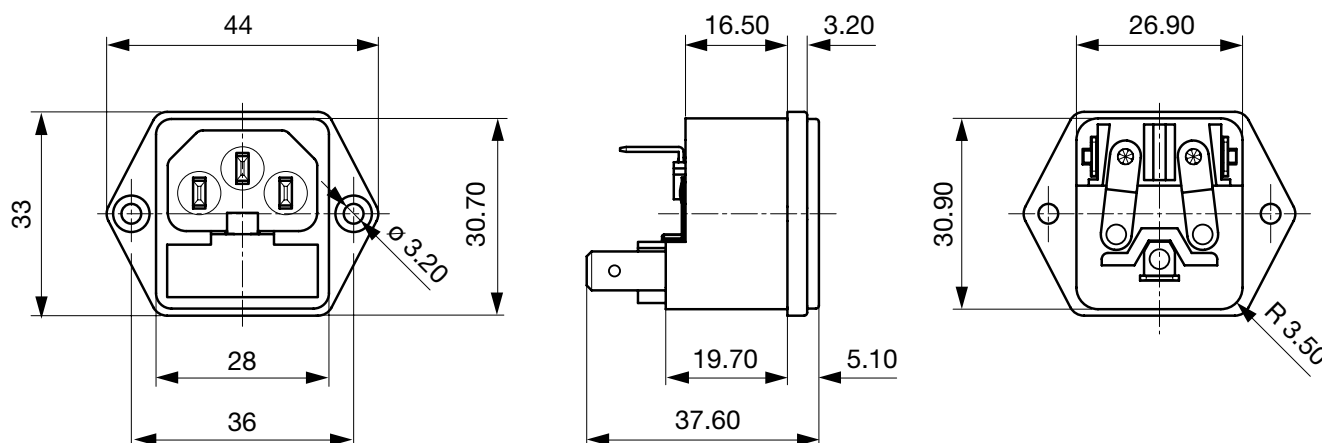
Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 3 kVAC between L-N > 1.5 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals Solder terminals or quick connect terminals straight
Material: Housing	UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	2-pole, acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves

Dimensions

Length | 44 mm



length of the terminal please find at the order code configuration table

Packaging unit

50 Pcs

Accessory

Description

0859.0047
Rear Cover4311.9403
Rear Cover

Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06
	...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L
	...

IEC Appliance Connector C14 with Fuseholder 2-pole

Plug removal necessary for fuse replacement



Screw-On Version

**Description**

- Panel Mount:
Screw-on from front or rear-side
- 2 Functions:
Appliance Inlet Protection class I, fuse-links 5 x 20 mm 1- or 2-pole
- Solder terminals 3.8 x 0.8 mm or quick connect terminals 6.3 x 0.8 mm

Approvals

- VDE License Number: 40006816
- UL License Number: E93617

Characteristics

- All single elements are already wired
- With slotted screw type fuseholder
Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuse drawer can only be opened with the aid of a tool
The fuseholder is accessible from the equipment front
- IP40 (fuseholder IP65)
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- For protection class II

References

[General Product Information](#)

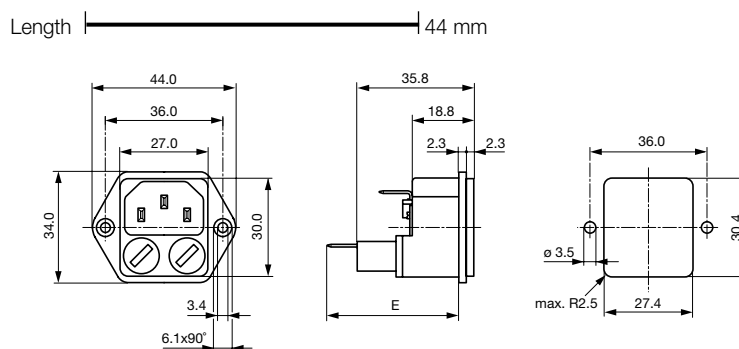
Weblinks

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

Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 2 kVAC between L-N > 3 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25°C to 70°C
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 terminals or quick connect terminals
Panel Thickness s	Screw-on: max 6 mm Mounting screw torque max 0.5 Nm
Material: Housing	Thermoplastic, black, UL 94V-0

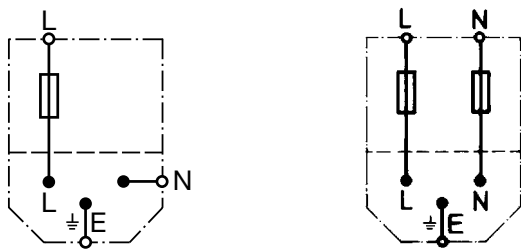
Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 1.6 W (1 pole)/ 1.6 W (2-pole) per pole
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves

Dimensions

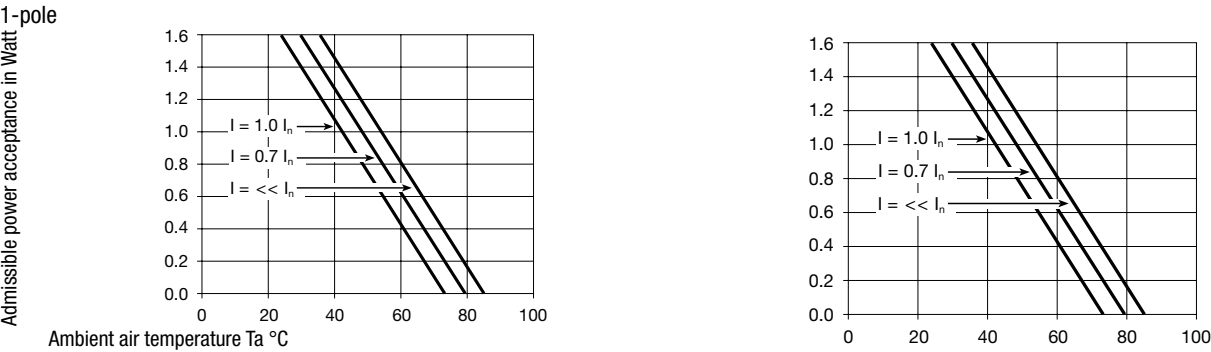
E: solder terminals = 37.6 mm

E: quick-connect terminals = 41.0 mm

Diagrams



Derating Curves



Variants

Socket and fuse-carrier

Terminal	Fuseholder	Order Number
Quick connect terminals 6.3 x 0.8 mm	1 pole	4707.1000
Solder terminals	1 pole	4707.1300
Quick connect terminals 6.3 x 0.8 mm	2-pole	4707.2000
Solder terminals	2-pole	4707.2300

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

Packaging unit 100 Pcs

Accessory

Description



[Assorted Covers](#)
Rear Cover

0859.0047
4311.9403



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

Countersunk, B

4700.0002

Mating Outlets/Connectors

Category / Description



Appliance Outlet

IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092



Connector

IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C14 with Fuseholder 2-pole

Plug removal necessary for fuse replacement



Screw-On Version

**Description**

- Panel Mount:
Screw-on from front side
- 2 Functions:
Appliance Inlet protection class I or II, Fuseholder for fuse-links 5 x 20 mm, 1- or 2-pole
- Quick connect terminals 4.8 x 0.8 mm
- We recommend for new applications the new type 4707

Approvals

- VDE License Number: 77560
- UL License Number: E93617
- CSA License Number: 70111

Characteristics

- All single elements are already wired
- With slotted screw type fuseholder
Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuse drawer can only be opened with the aid of a tool
The fuseholder is accessible from the equipment front
- Qualified for use in equipment according IEC/EN 60950

References

[General Product Information](#)

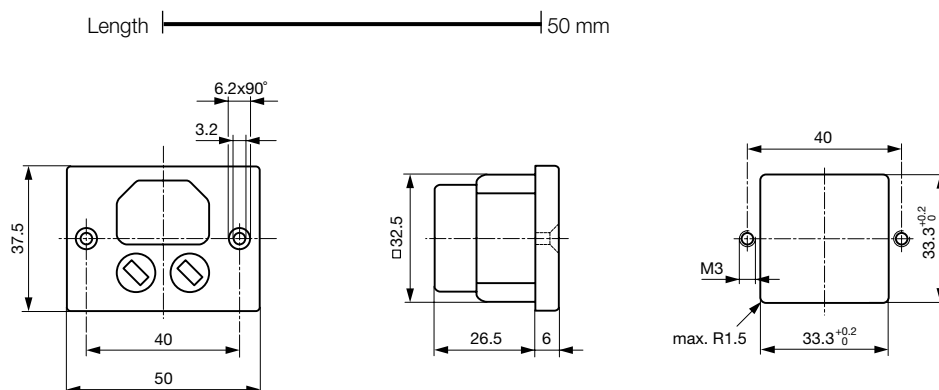
Weblinks

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

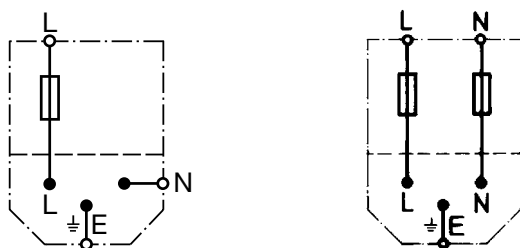
Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	6 A / 250 VAC; 60 Hz
Dielectric Strength	> 2 kVAC between L-N > 4 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of 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 4.8 x 0.8 mm
Panel Thickness s	Screw-on: max 6 mm Mounting screw torque max 0.5 Nm
Material: Housing	Thermoplastic, UL 94V-0

Appliance-Inlet/-Outlet	C14/C18 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I or II
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 1.6 W (1 pole)/ 1.2 W (2-pole) per pole
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves

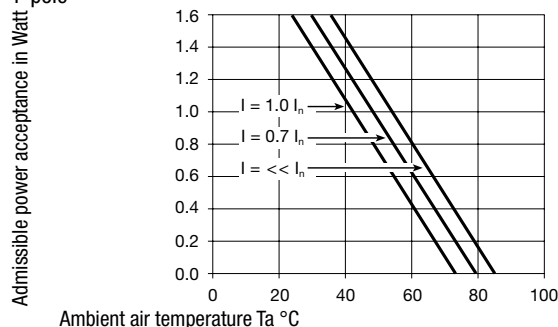
Dimensions

Diagrams

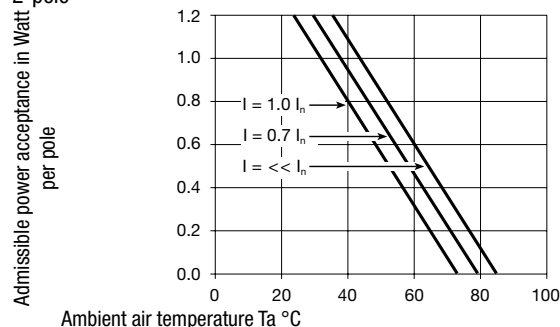


Derating Curves

1-pole



2-pole



Variants

Socket and fuse-carrier

Protection Class	Fuseholder	Case	Order Number
I	1 pole	black	0040.5012
I	2-pole	black	0040.5000.2
I	2-pole	Grey	0040.5001.2
II	2-pole	black	0040.5015

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

Packaging unit 100 Pcs

Mating Outlets/Connectors

Category / Description

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

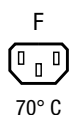


Power Supply or Interconnection Cord

Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L
	...

IEC Appliance Plug F with Fuseholder 1-pole

Plug removal necessary for fuse replacement

with fuseholder
Snap-In VersionSnap-In Version
with fuseholder and neon indicator**Description**

- Panel Mount:
Snap-in version from front side
- 3 Functions:
Connector shuttered Protection class I, Fuseholder for fuse-links 5 x 20 mm 1-pole, with or without neon indicator
- Solder terminals 3.8 x 0.8 mm

Approvals

- VDE License Number: 40011534
- UL License Number: E93617

Characteristics

- With internal connections, except neon indicator to allow for different configurations
Neon indicator with wire terminals
- With slotted screw type fuseholder
Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuse drawer can only be opened with the aid of a tool
The fuseholder is accessible from the equipment front
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- For protection class II

References

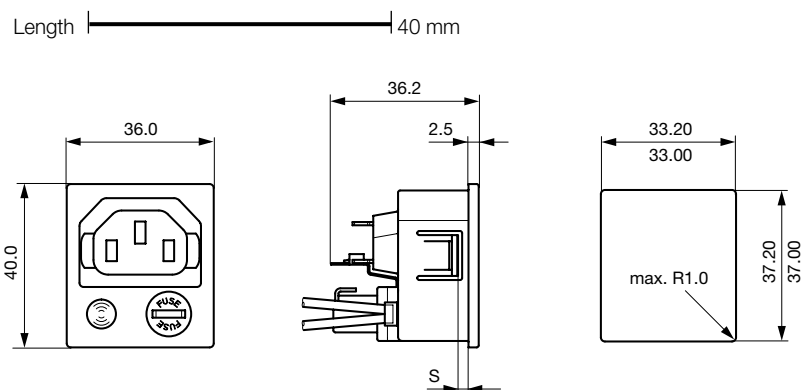
General Product Information

Weblinks

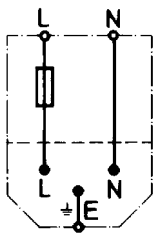
Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check

Technical Data

Ratings IEC	10A / 250VAC; 50Hz	Appliance-Inlet/-Outlet	F acc. to IEC/EN 60320-2-2, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection class I
Ratings UL/CSA	10A / 250VAC; 60Hz	Fuseholder	1 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Dielectric Strength	> 2.5 kVAC between L-N > 3 kVAC between L/N-PE (1 min/50 Hz)	Rated Power Acceptance @ Ta 23 °C	5 x 20: 1.6W (1 pole)
Allowable Operation Temp.	-25 °C to 70 °C	Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves
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 terminals 3.8 x 0.8 mm except neon indicator		
Panel Thickness s	Snap-in: 1 / 1.2 / 1.5 / 2 / 2.5 / 3 mm		
Material: Housing	Thermoplastic, black, UL 94V-0		

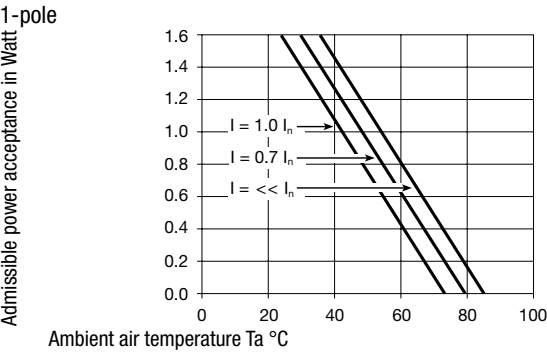
Dimensions

Diagrams



version without neon indicator

Derating Curves



Variants

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

Socket and fuse-carrier

Panel Thickness s [mm]	Neon indication	Order Number
1	●	4719.3300
1.2	●	4719.8300
1.5	●	4719.4300
2	●	4719.5300
2.5	●	4719.6300
3	●	4719.7300
1		4719.3310
1.2		4719.8310
1.5		4719.4310
2		4719.5310
2.5		4719.6310
3		4719.7310

Packaging unit 100 Pcs

Accessory

Description



Assorted Covers
Rear Cover

0859.0075

Mating Inlets/Plugs

Category / Description

Interconnection Cord



Power Cord with IEC Appliance Plug E, angled, 70°C	0607
Power Cord with IEC Appliance Plug E, angled, 70°C	0608
Power Cord with IEC Appliance Plug E, straight, 70°C	0609
Power Cord with IEC Appliance Plug G, angled, 70°C	607B
Power Cord with IEC Appliance Plug G, angled, 70°C	608B
Power Cord with IEC Appliance Plug G, straight, 70°C	609B

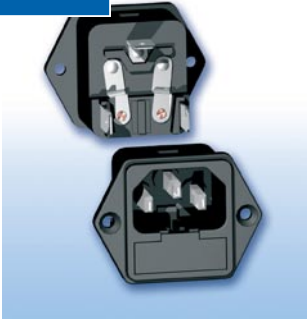
Plug Connector



IEC plug connector E, rewirable, straight, max. cable diameter 8.5 mm	4732
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4733
IEC plug connector E, rewirable, straight, max. cable diameter 10 mm	4735
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4736
IEC plug connector E, rewirable, straight	9009
IEC plug connector E, rewirable, angled	9013
IEC plug connector E, rewirable, angled	P685

IEC Appliance Connector C14 with Fuseholder, 70°C

new



Screw-On Version

C14



70° C

**Description**

- Panel Mount:
- Screw-on from front side,
- Appliance Inlet,
- Protection class I Fuseholder for fuse-links 5 x 20 mm 2-pole, Protection class I, Pin temperature 70 °C
- Solder terminals or quick connect terminals

Approvals

- CSA License Number: 1084381

Characteristics

- The fuseholder is accessible from the equipment front
- The fuse drawer "Fingergrip" can be removed by hand
- With or without rear-side insulation cover

References

[General Product Information](#)

Weblinks

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

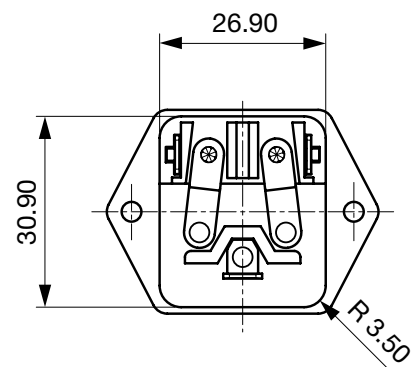
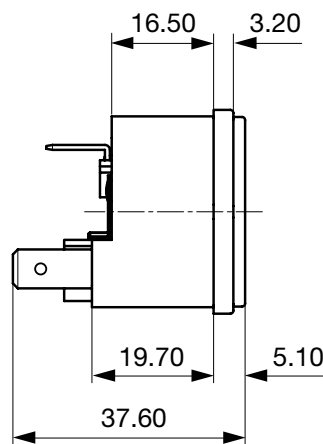
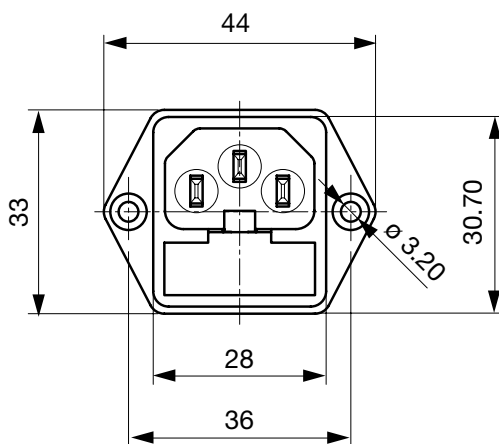
Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 3 kVAC between L-N > 1.5 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals Solder terminals or quick connect terminals straight
Material: Housing	UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	2-pole, acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves

Dimensions

Length | 44 mm



length of the terminal please find at the order code configuration table

Packaging unit 50 Pcs

Accessory

Description

0859.0047
Rear Cover4311.9403
Rear Cover

Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C14 with Fuseholder 1- or 2-pole and Voltage Selector

Standard or Medical Fuse drawer



Fuse drawer must be ordered separately (see accessories).

Fuse drawer must be ordered separately (see accessories).

C14



70 °C

**Description**

- Panel Mount:
Screw-on version from front or rear side, snap-in version from front side
- 3 Functions:
Appliance Inlet Protection class I, Fuseholder with interchangeable fuse drawer for Fuse-links 5 x 20 mm or 6.3 x 32 mm 1- or 2-pole, with or without voltage selector (step switch)
- Quick connect terminals 4.8 x 0.8 mm
- Alternative: version with line filter **KFC**

Approvals

- VDE License Number: 40012271
- UL License Number: E93617
- CSA License Number: 38456

Characteristics

- Available with or without internal connections
- The fuse drawer "Fingergrasp" can be removed by hand
For added safety "Extra-Safe" fuse drawers are available
Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuse drawer can only be opened with the aid of a tool
The fuseholder is accessible from the equipment front
- Qualified for use in equipment according IEC/EN 60950

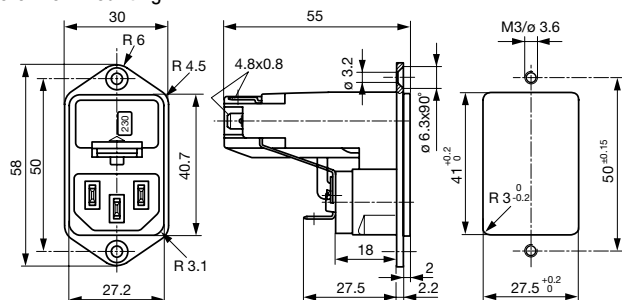
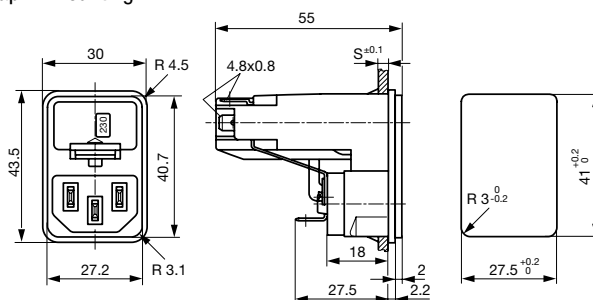
Other versions on request

- Fuse drawer with other voltage values
- For protection class II

References[General Product Information](#)**Weblinks**[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)**Technical Data**

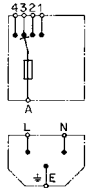
Ratings IEC	10A / 250 VAC; 50Hz
Ratings UL/CSA	10A / 125 VAC; 60Hz
Dielectric Strength	> 3 kVAC between L-N > 4 kVAC between L/N-PE (1 min/50Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Quick connect terminals 4.8 x 0.8 mm
Panel Thickness s	Screw-on: max 8 mm Mounting screw torque max 0.5 Nm Snap-in: 1.5 / 2 / 2.5 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection class I
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 or 6.3 x 32 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2.5 W (1 pole)/ 2 W (2-pole) per pole 6.3 x 32: 3.15 W (1 pole)/ 2.5 W (2-pole) per pole
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves
Voltage selector	optional, step, 2-4 digits

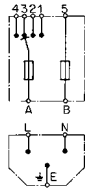
Dimensions**Screw-on mounting****Snap-in mounting**

Diagrams

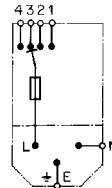
without internal connections
voltage selector
4-positions
1-pole



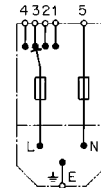
without internal connections
voltage selector
4-positions
2-pole



with internal connections
voltage selector
4-positions
1-pole



with internal connections
voltage selector
4-positions
2-pole



voltage selector
3-positions
1-pole



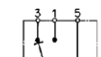
voltage selector
3-positions
2-pole



voltage selector
2-positions
1-pole



voltage selector
2-positions
2-pole



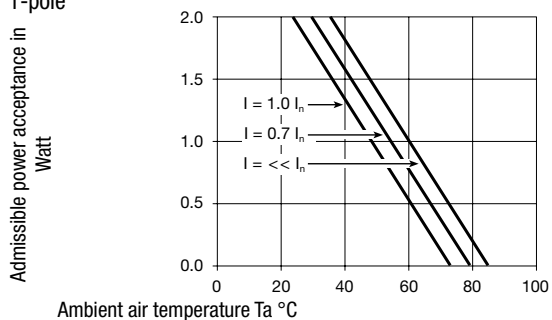
without voltage selector
1-pole



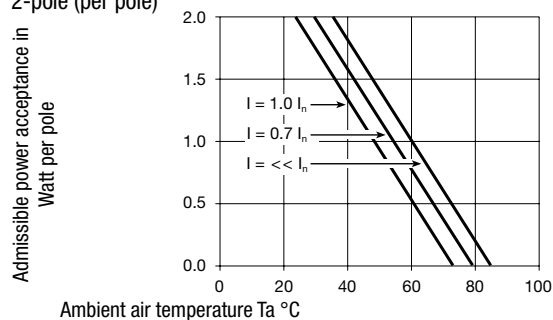
without voltage selector
2-pole

**Derating Curves**

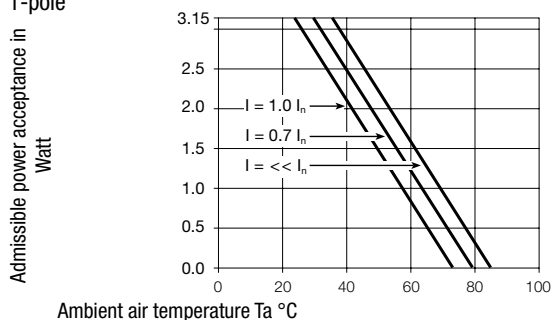
Fuses 5 x 20 mm
1-pole



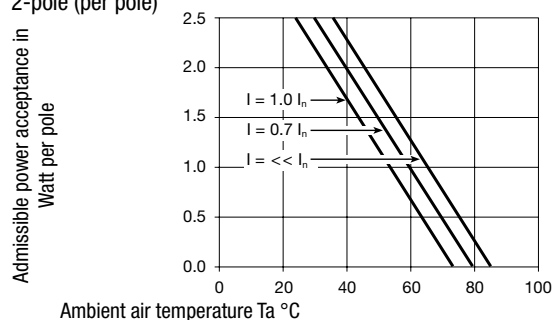
Fuses 5 x 20 mm
2-pole (per pole)



Fuses 6,3 x 32 mm
1-pole



Fuses 6,3 x 32 mm
2-pole (per pole)



Variants

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

Fuse drawer must be ordered separately (see accessories).

Fingergrip and Extra-Safe

Panel mounting	Panel Thickness s [mm]	Fuseholder	Voltage selector	internally wired	Order Number
Screw-on	-	1 pole	without		4303.0031
Screw-on	-	1 pole	3/4 digits		4303.0091
Screw-on	-	1 pole	2 digits		4303.0211
Screw-on	-	1 pole	without		4303.1031
Screw-on	-	1 pole	3/4 digits		4303.1091
Screw-on	-	1 pole	2 digits		4303.1211
Screw-on	-	2-pole	without		4303.0001
Screw-on	-	2-pole	3/4 digits		4303.0061
Screw-on	-	2-pole	2 digits		4303.0181
Screw-on	-	2-pole	without		4303.1001
Screw-on	-	2-pole	3/4 digits		4303.1061
Screw-on	-	2-pole	2 digits		4303.1181
Snap-in	1.5	1 pole	without		4303.0032
Snap-in	1.5	1 pole	3/4 digits		4303.0092
Snap-in	1.5	1 pole	2 digits		4303.0212
Snap-in	2	1 pole	without		4303.0033
Snap-in	2	1 pole	3/4 digits		4303.0093
Snap-in	2	1 pole	2 digits		4303.0213
Snap-in	2.5	1 pole	without		4303.0034
Snap-in	2.5	1 pole	3/4 digits		4303.0094
Snap-in	2.5	1 pole	2 digits		4303.0214
Snap-in	1.5	1 pole	without		4303.1032
Snap-in	1.5	1 pole	3/4 digits		4303.1092
Snap-in	1.5	1 pole	2 digits		4303.1212
Snap-in	2	1 pole	without		4303.1033
Snap-in	2	1 pole	3/4 digits		4303.1093
Snap-in	2	1 pole	2 digits		4303.1213
Snap-in	2.5	1 pole	without		4303.1034
Snap-in	2.5	1 pole	3/4 digits		4303.1094
Snap-in	2.5	1 pole	2 digits		4303.1214
Snap-in	1.5	2-pole	without		4303.0002
Snap-in	1.5	2-pole	3/4 digits		4303.0062
Snap-in	1.5	2-pole	2 digits		4303.0182
Snap-in	2	2-pole	without		4303.0003
Snap-in	2	2-pole	3/4 digits		4303.0063
Snap-in	2	2-pole	2 digits		4303.0183
Snap-in	2.5	2-pole	without		4303.0004
Snap-in	2.5	2-pole	3/4 digits		4303.0064
Snap-in	2.5	2-pole	2 digits		4303.0184
Snap-in	1.5	2-pole	without		4303.1002
Snap-in	1.5	2-pole	3/4 digits		4303.1062
Snap-in	1.5	2-pole	2 digits		4303.1182
Snap-in	2	2-pole	without		4303.1003
Snap-in	2	2-pole	3/4 digits		4303.1063
Snap-in	2	2-pole	2 digits		4303.1183
Snap-in	2.5	2-pole	without		4303.1004
Snap-in	2.5	2-pole	3/4 digits		4303.1064
Snap-in	2.5	2-pole	2 digits		4303.1184

Packaging unit

50 Pcs

Required Accessory

Description

Fusedrawer 3

Drawers for fuse links 5x20mm resp. 6.3x32mm



Fingergrip, 5 x 20, 2-pole, Voltage selector	4303.2014.00
Fingergrip, 5 x 20, 2-pole, Voltage selector, 100, 120, 220, 240	4303.2014.01
Fingergrip, 5 x 20, 2-pole, Voltage selector, 110, 150, 220	4303.2014.02
Fingergrip, 5 x 20, 2-pole, Voltage selector, 110, 220	4303.2014.03
...	

Accessory

Assorted Covers

Rear Cover



0859.0072

Cord retaining kits

Cord retaining strain relieve



Flat head, A

4700.0001

Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06
...	

Category / Description

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C14 or C18 with Voltage Selector and Fuseholder, 70°C

new



Screw-On Version

**Description**

- Panel Mount:
Screw-on from front side, Appliance Inlet, protection class I or II, Voltage selector
- Solder terminals or quick connect terminals

Approvals

- UL License Number: E88880
- CSA License Number: 1084381

References

General Product Information

Weblinks

Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check

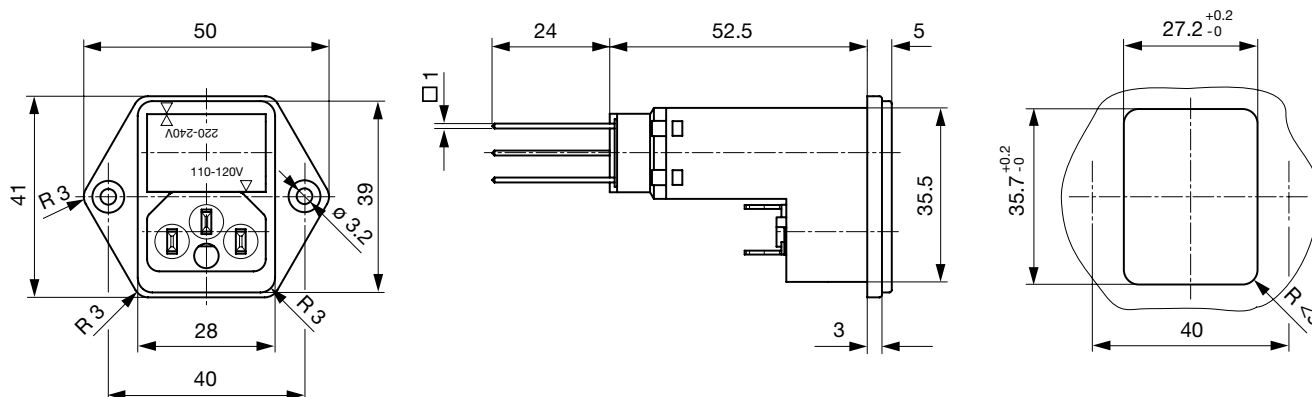
Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 3 kVAC between L-N > 1.5 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I or II acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals
Panel Thickness s	:
Material: Housing	black or grey, UL 94V-0

Appliance-Inlet/-Outlet	C14/C18 acc. to IEC/EN 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I or II
Fuseholder	1 or 2 pole, acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves
Voltage selector	Step switch, 2 positions

Dimensions

Length | 50 mm



length of the terminal please find at the order code configuration table

Packaging unit

50 Pcs

Mating Outlets/Connectors

Category / Description

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C14 with Fuseholder 1- or 2-pole and Voltage Selector

Standard or Medical Fuse drawer



C14

 70° C

**Description**

- Panel Mount:
Screw-on version from front or rear side, snap-in version from front side
- 3 Functions:
Appliance Inlet Protection class I, Fuseholder with interchangeable fuse drawer for Fuse-links 5 x 20 mm or 6.3 x 32 mm 1- or 2-pole, Voltage selector (series-parallel)
- Quick connect terminals 4.8 x 0.8 mm
- Alternative: version with line filter [CE](#)

Approvals

- VDE License Number: 40011908
- UL License Number: E93617
- CSA License Number: 38456

Characteristics

- Available with or without internal partial wired connections
- For added safety "Extra-Safe" fuse drawers are available
Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuse drawer can only be opened with the aid of a tool
The fuseholder is accessible from the equipment front
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- For protection class II

References

[General Product Information](#)

Weblinks

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

Technical Data

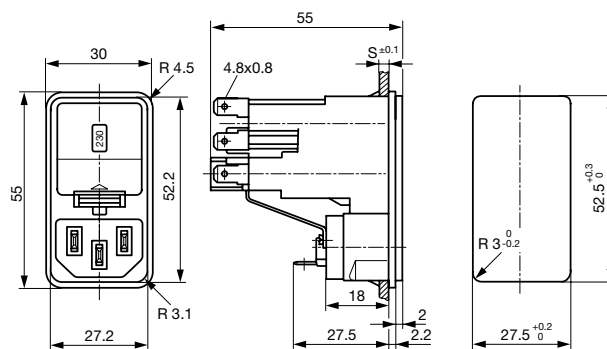
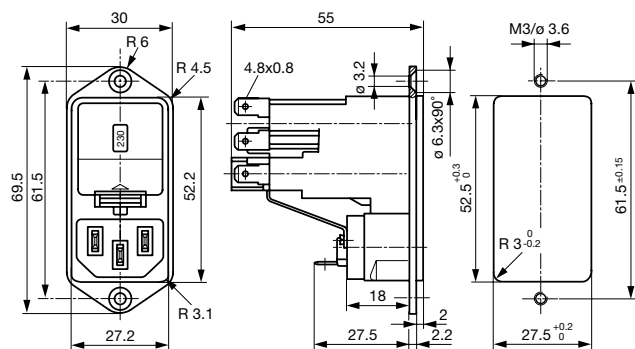
Ratings IEC	10A / 250VAC; 50Hz	Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection class I
Ratings UL/CSA	10A / 125VAC; 60Hz	Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 or 6.3 x 32 mm
Dielectric Strength	> 3kVAC between L-N > 4kVAC between L/N-PE (1 min/50Hz)	Rated Power Acceptance @ Ta 23 °C	5 x 20: 2.5W (1 pole)/ 2W (2-pole) per pole 6.3 x 32: 3.15W (1 pole)/ 2.5W (2-pole) per pole
Allowable Operation Temp.	-25 °C to 70 °C	Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves
Degree of Protection	from front side IP 40 acc. to IEC 60529	Voltage selector	series-parallel, 4, 3 or 2 switch positions or usable as 2-pole change-over switch
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140		
Terminal	Quick connect terminals 4.8 x 0.8 mm		
Panel Thickness s	Screw-on: max 8 mm Mounting screw torque max 0.5Nm Snap-in: 1.5 / 2 / 2.5 mm		
Material: Housing	Thermoplastic, black, UL 94V-0		

Dimensions

Screw-on mounting

Length | 69.5 mm

Snap-in mounting



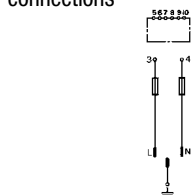
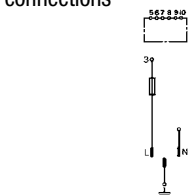
Diagrams

with partial wired internal connections

with partial wired internal connections

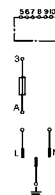
without internal connections

without internal connections



1-pole

2-pole



1-pole

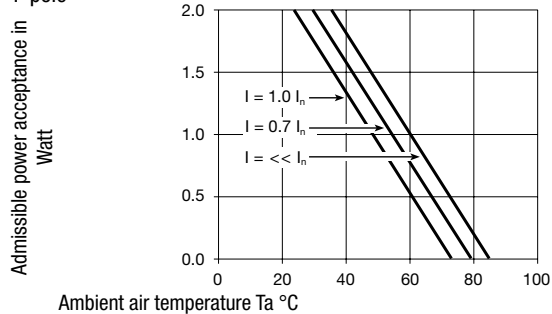


2-pole

Derating Curves

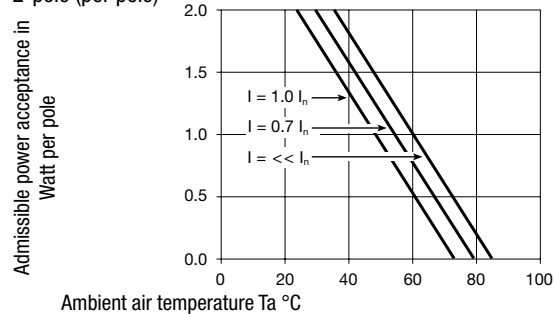
Fuses 5 x 20 mm

1-pole



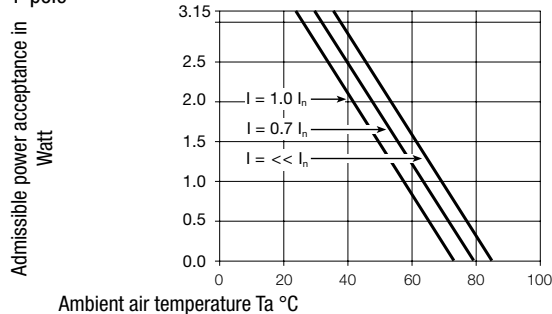
Fuses 5 x 20 mm

2-pole (per pole)



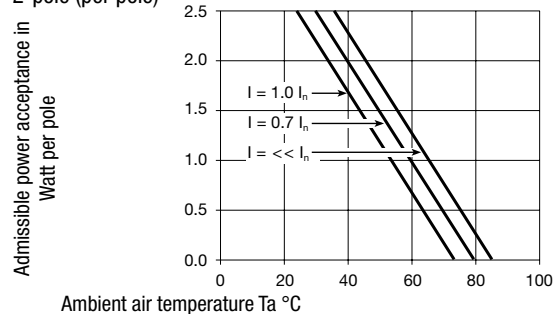
Fuses 6,3 x 32 mm

1-pole



Fuses 6,3 x 32 mm

2-pole (per pole)



Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Fuseholder and voltage selector insert must be ordered separately

Panel mounting	Panel Thickness s [mm]	Fuseholder	internally wired	Order Number
Screw-on	-	1 pole	unwired	KE15.1100.151
Screw-on	-	1 pole	partially wired	KE16.5100.151
Screw-on	-	2-pole	unwired	KE10.2100.151
Screw-on	-	2-pole	partially wired	KE10.6100.151
Snap-in	1.5	1 pole	unwired	KE15.1100.105
Snap-in	2	1 pole	unwired	KE15.1100.107
Snap-in	2.5	1 pole	unwired	KE15.1100.109
Snap-in	1.5	1 pole	partially wired	KE16.5100.105
Snap-in	2	1 pole	partially wired	KE16.5100.107
Snap-in	2.5	1 pole	partially wired	KE16.5100.109
Snap-in	1.5	2-pole	unwired	KE10.2100.105
Snap-in	2	2-pole	unwired	KE10.2100.107
Snap-in	2.5	2-pole	unwired	KE10.2100.109
Snap-in	1.5	2-pole	partially wired	KE10.6100.105
Snap-in	2	2-pole	partially wired	KE10.6100.107
Snap-in	2.5	2-pole	partially wired	KE10.6100.109

Packaging unit 20 Pcs

Required Accessory

Description



Jumper Wire 1
Connection with Starnded Cable

Type B, 100	0881.0074
Type B, 100	0881.0075
Type A, 100	0881.0076
Type A, 100	0881.0077



Fusedrawer 1
Drawer for fuse links 5x20mm resp. 6.3x32mm

5 x 20, 2-pole	4305.0001
5 x 20, 1 pole	4305.0006
6.3 x 32, 2-pole	4305.0011
6.3 x 32, 1 pole	4305.0016

...



Voltage Selectors Insert 1
Voltage Selector Insert to KE, CE, KG, CG

3 or 4 switch positions	4305.0048.00
1, 3 or 4 switch positions, 100, 120, 220, 240	4305.0048.01
3, 3 or 4 switch positions, 130, 110, 240, 220	4305.0048.02
2, 2 switch positions, 110, 220	4305.0048.03

...

Accessory



Assorted Covers
Rear Cover

0859.0076



Cord retaining kits
Cord retaining strain relieve

Flat head, A

4700.0001

Mating Outlets/Connectors

Category / Description



Appliance Outlet

IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Coupler C20 with Line Switch, 1- or 2-pole



Snap-In Version or Screw-On Version illuminated version

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 switch 2-pole
- Quick connect terminals 6.3 x 0.8 mm
- Alternative: version with line filter [EC12](#)

Approvals

- VDE License Number: 40001031
- UL License Number: E96454

Characteristics

- All single elements are already wired
Unwired versions available on request
- Line switch non-illuminated or illuminated
- Ideal for application with high transient loads
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Unwired versions
- Line switch with other rocker marking
- For protection class II

References

[General Product Information](#)

Weblinks

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

Technical Data

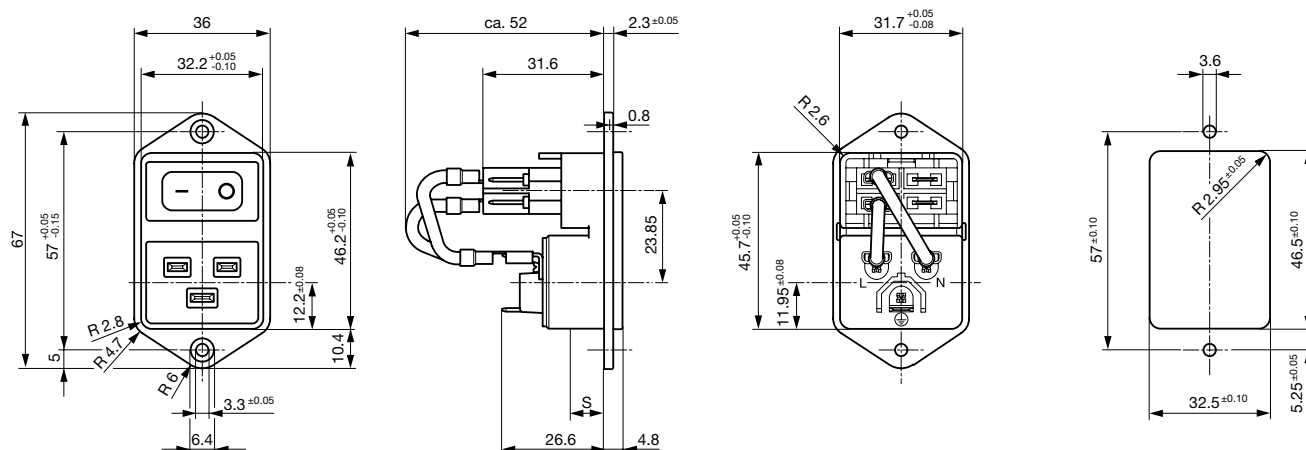
Ratings IEC	16 A / 250 VAC; 50 Hz
Ratings UL/CSA	20 A / 250 VAC; 60 Hz
Dielectric Strength	> 2.5 kVAC between L-N > 3 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Quick connect terminals 6.3 x 0.8 mm
Panel Thickness s	Screw-on: max 8 mm Mounting screw torque max 0.5 Nm Snap-in: 1.5 / 2 / 2.5 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, 16 A, Protection class I
Line Switch	Rocker switch 2-pole, non-illuminated or illuminated, acc. to IEC 61058-1 Technical details

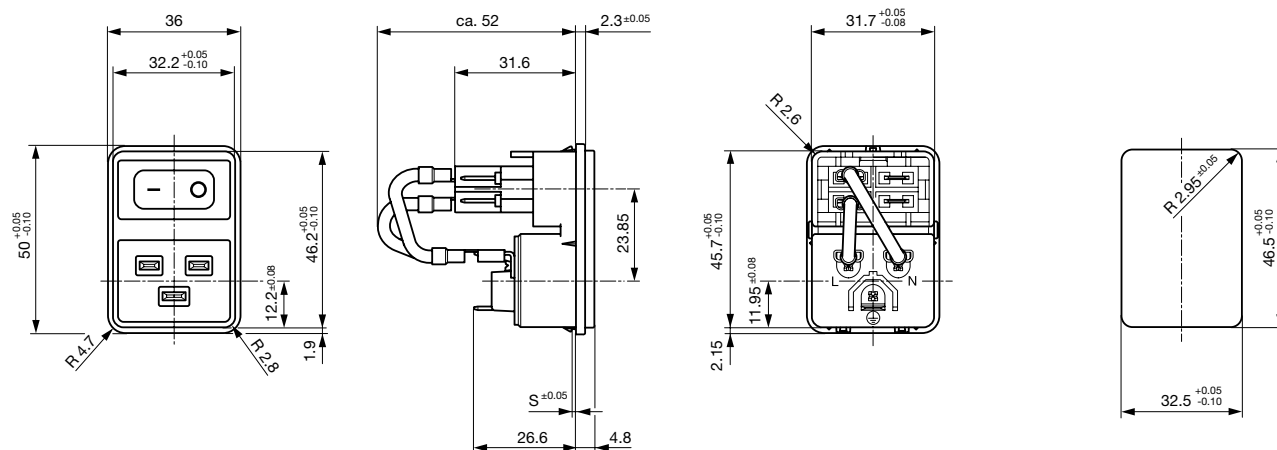
Dimensions

Screw-on mounting

Length |-----| 67 mm

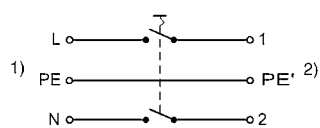


Snap-in mounting



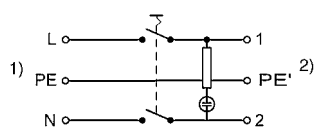
Diagrams

Line switch non-illuminated



- 1) Line
- 2) Load

Line switch illuminated



- 1) Line
- 2) Load

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

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

with internal connections

Panel mounting	Panel Thickness s [mm]	Illumination	Color	internally wired	Order Number
Screw-on	-		-		EC11.0001.002
Screw-on	-	●	red	●	EC11.0021.001
Screw-on	-	●	red		EC11.0021.002
Screw-on	-	●	green	●	EC11.0031.001
Screw-on	-	●	green		EC11.0031.002
Screw-on	6		-	●	EC11.0001.001
Snap-in	1.5		-	●	EC11.0001.201
Snap-in	1.5		-		EC11.0001.202
Snap-in	1.5	●	red	●	EC11.0021.201
Snap-in	1.5	●	red		EC11.0021.202
Snap-in	1.5	●	green	●	EC11.0031.201
Snap-in	1.5	●	green		EC11.0031.202
Snap-in	2		-	●	EC11.0001.301
Snap-in	2		-		EC11.0001.302
Snap-in	2	●	red	●	EC11.0021.301
Snap-in	2	●	red		EC11.0021.302
Snap-in	2	●	green	●	EC11.0031.301
Snap-in	2	●	green		EC11.0031.302
Snap-in	2.5		-	●	EC11.0001.401
Snap-in	2.5		-		EC11.0001.402
Snap-in	2.5	●	red	●	EC11.0021.401
Snap-in	2.5	●	red		EC11.0021.402
Snap-in	2.5	●	green	●	EC11.0031.401
Snap-in	2.5	●	green		EC11.0031.402

Packaging unit 25 Pcs

Accessory

Description

Assorted Covers
Rear Cover

0859.0076

Cord retaining kits
Cord retaining strain relieve

Flat head, Z

0888.0021

Flat head, H

4700.0008

Mating Outlets/Connectors

Category / Description

Connector



IEC connector C19, rewirable, straight	0104
IEC connector C19, rewirable, angled	1651
IEC connector C19, rewirable, straight	1652
IEC connector C19, rewirable, angled	4790
IEC connector C19, rewirable, straight	4795

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C19, straight, 70°C	1654
Power Cord with IEC Appliance Connector C19, Line Plug North America, 70°C	4300.0920
Power Supply Cord with IEC Connector C19, Power Plug North America, 70°C	6003.0395
Power Cord Medical Grade with IEC Appliance Connector C19, Line Plug North America, 70°C	6009.5195

IEC appliance inlet C20 with circuit breaker 1- or 2-pole



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, circuit breaker type TA45 2-pole
- Quick connect terminals 6.3 x 0.8 mm
- Alternative: version with line filter [EF12](#)

Approvals

- VDE License Number: 40001029
- UL License Number: E96454

Characteristics

- All single elements are already wired
Unwired versions available on request
- Line switch non-illuminated or illuminated
Thermal overload protection
- Optional with undervoltage release or remote trip release
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Unwired versions

References

[General Product Information](#)

Weblinks

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

Technical Data

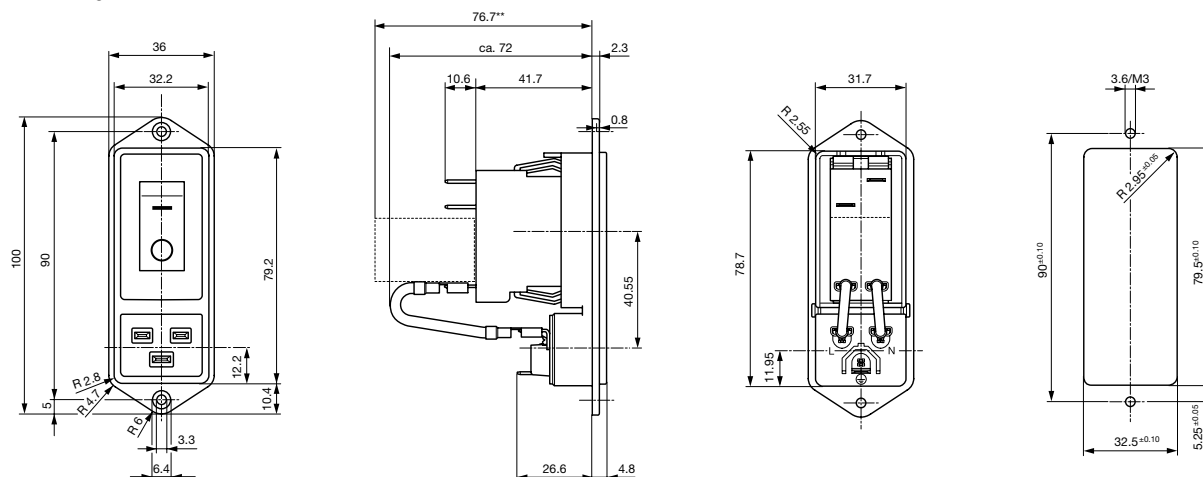
Ratings IEC	16 A / 250VAC; 50Hz
Ratings UL/CSA	20 A / 125/250VAC; 60Hz
Dielectric Strength	> 1.5 kVAC between L-N > 3 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-10 °C to 55 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Quick connect terminals 6.3 x 0.8 mm
Panel Thickness s	Screw-on: max 8 mm Mounting screw torque max 0.5 Nm Snap-in: 1.5 / 2 / 2.5 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, 16 A, Protection class I
Circuit breaker	Acc. IEC/EN 60934, UL 1077, CSA 22.2 no. 235 2-pole rocker switch, illuminated or non-illuminated. Optional with undervoltage- or remote trip release Short circuit capacity Icn: at In < 3A/240VAC : 10 x In at In ≥ 3A/240VAC : 300A
Line Switch	Rocker switch 2-pole, non-illuminated or illuminated, acc. to IEC 61058-1 Technical details

Dimensions

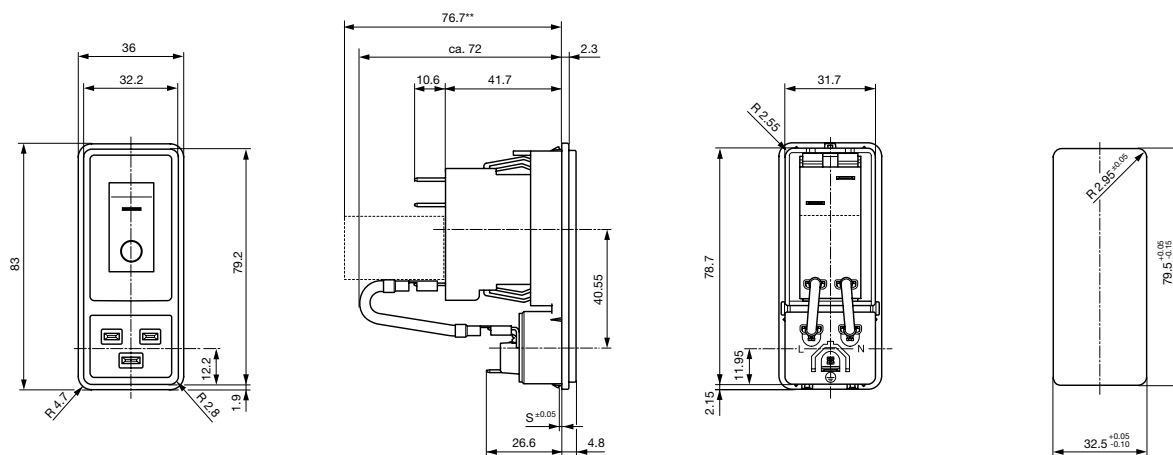
Screw-on mounting

Length |-----| 100 mm



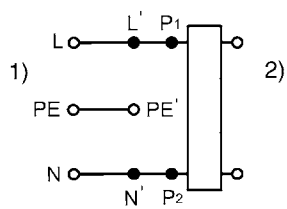
** --- Version TA45 with undervoltage release

Snap-in mounting



**--- Version TA45 with undervoltage release

Diagrams



- 1) Line
- 2) Load

Table 1 Selection for type TA45

Order example



- Line switch
- 2-pole, rocker actuated
- Quick connect terminal
- Other types on request

Diagram

Thermal overload protection

without

with 1-pole

with 2-pole

Without illumination

ABC**ABT****ABD**

With illumination

220...240 V
110...120 V**A02**
A04**A12**
A14**A32**
A34**Colours****Switch front**

W black
B black
6 black

Rocker

white
 black
 – orange transp.

Rocker legend**Surface****Illustration****Colour of print****F** embossed**H** printed**K** printed**L** printed

white

black

white

Surface**Illustration****Colour of print****M** printed

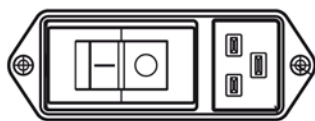
black

P printed

white

R printed

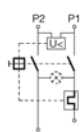
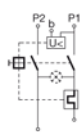
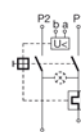
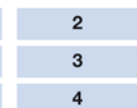
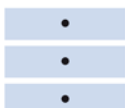
black

Position of the rocker legend
e.g F**Rated current:**

- Without thermal overload protection: code **C00** } $I_n = 20 \text{ A}$
- With thermal overload protection: rated current $I_n \text{ (A)}$

I_n	Code	I_n	Code	I_n	Code	I_n	Code
10,0	100	13,0	130	16,0	160	19,0	190
11,0	110	14,0	140	17,0	170	20,0	200
12,0	120	15,0	150	18,0	180		

Other rated currents on request

Without release: code C0**Undervoltage release****U****E****Z****Remote trip release****A****Code**Rated
voltage U_n 

Packaging unit 20 Pcs

Accessory

Description



Assorted Covers
Rear Cover

0859.0109



Cord retaining kits
Cord retaining strain relieve

Flat head, Z

0888.0021

Flat head, H

4700.0008

Mating Outlets/Connectors

Category / Description

Connector



IEC connector C19, rewirable, straight

0104

IEC connector C19, rewirable, angled

1651

IEC connector C19, rewirable, straight

1652

IEC connector C19, rewirable, angled

4790

IEC connector C19, rewirable, straight

4795

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C19, straight, 70°C

1654

Power Cord with IEC Appliance Connector C19, Line Plug North America, 70°C

4300.0920

Power Supply Cord with IEC Connector C19, Power Plug North America, 70°C

6003.0395

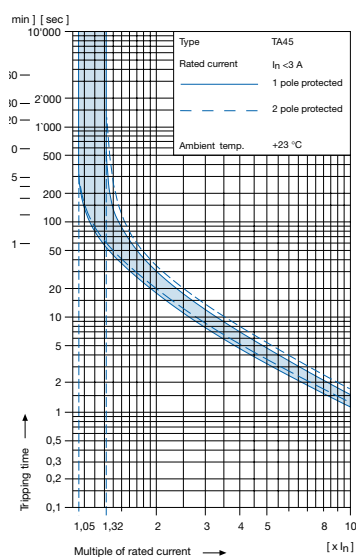
Power Cord Medical Grade with IEC Appliance Connector C19, Line Plug North America, 70°C

6009.5195

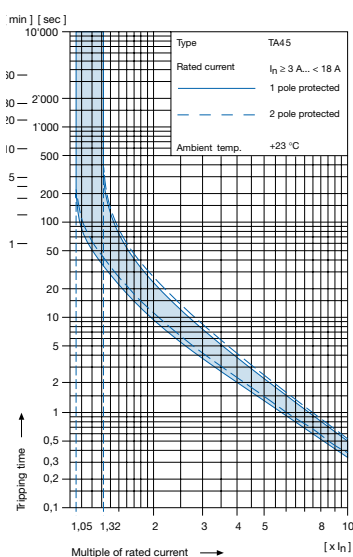
Technical data (continued)

Circuit breaker

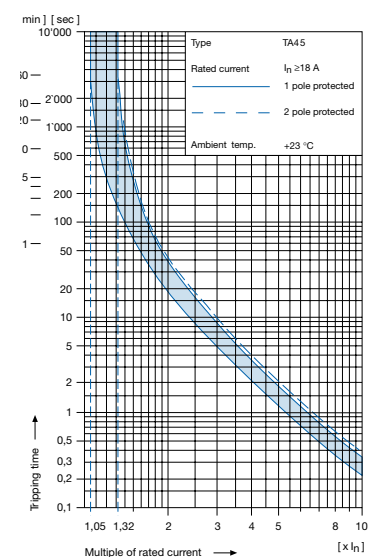
Tripping characteristics

 $I_n < 3 \text{ A}$ 

Tripping characteristics

 $I_n \geq 3 \dots < 18 \text{ A}$ 

Tripping characteristics

 $I_n \geq 18 \text{ A}$ 

1) Effect of ambient temperature

The unit is calibrated for an ambient temperature of +23 °C. To determine the rated current for a lower or higher ambient temperature, use a correction factor from the table below:

* Ambient temperature [°C]	Correction factor
-10	0,89
- 5	0,91
0	0,92
+23	1,00
+30	1,03
+40	1,08
+55	1,16

* Temperature must be measured at the rear of the breaker next to the terminals after equipment operating temperature has been reached.

1) Example

Rated current at +23 °C

6,0 A

Ambient temperature

+40 °C

Correction factor

1,08

Chosen rated current at

+40 °C ambient temperature

6 A x 1,08 = 6,5 A

Order code for EF11 (order example)

Type	Order code TA45 (2-pole rocker-switch without accessories)
EF11.	A B T W F 1 5 0 C 0 .
	see table 1

Please note that Schurter will establish an internal new part number for logistical use in addition to the order code. The format of this internal part number is, for example EF11.3103.0010.01

Wiring
1 = wired

Protection class
0 = Class I, housing black

Panel mount
0 = Screw-on version
2 = Snap-in version s = 1,5 mm
3 = Snap-in version s = 2,0 mm
4 = Snap-in version s = 2,5 mm

Terminals
1 = Quick connect terminals 6,3 x 0,8 mm

00 = without line filter

IEC Appliance Connector C20 with GeräteschutzLine Switch, 70°C



Snap-In Version

C20



70° C

**Description**

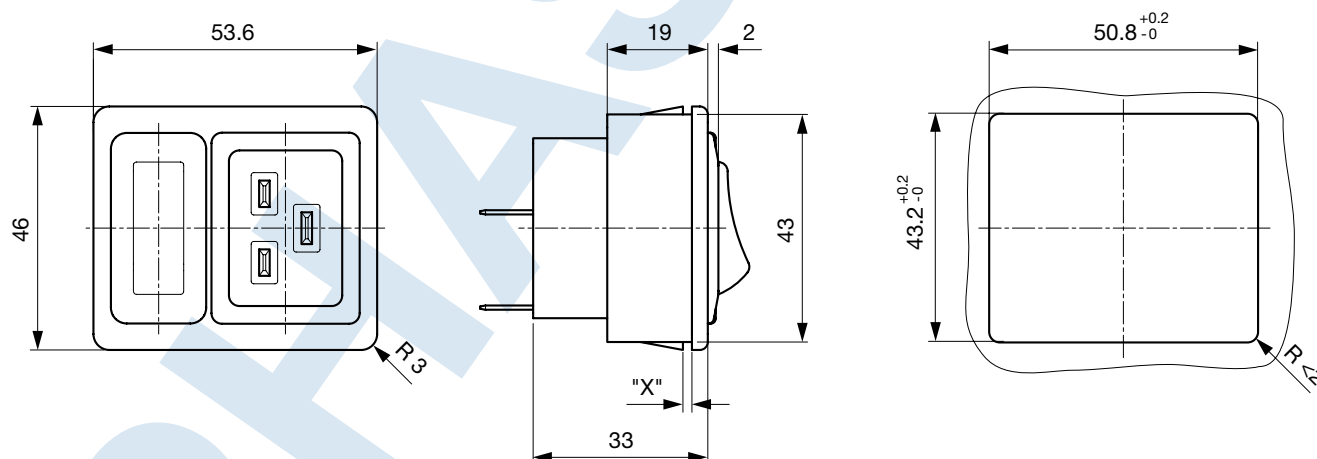
Appliance Inlet,

- We recommend for new applications the new type 6136

References[General Product Information](#)**Weblinks**[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)**Technical Data**

Ratings IEC	16 A / 250 VAC; 50 Hz
Ratings UL/CSA	21 A / 250 VAC; 60 Hz
Allowable Operation Temp.	-25 °C to 85 °C
Degree of Protection	from front side IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Quick connect terminals 6.3 x 0.8 mm
Panel Thickness s	Screw-on Mounting screw torque max 0 Nm Snap-in 1 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, 16 A, Protection class I**Dimensions**

Dimension "X" please ref. to table order code

Packaging unit

50 Pcs

Mating Outlets/Connectors

Category / Description

Connector



IEC connector C19, rewirable, straight	0104
IEC connector C19, rewirable, angled	1651
IEC connector C19, rewirable, straight	1652
IEC connector C19, rewirable, angled	4790
IEC connector C19, rewirable, straight	4795



Power Supply or Interconnection Cord

Power Cord with IEC Appliance Connector C19, straight, 70°C	1654
	Kabelverbindung/16 A

IEC Appliance Connector C14 with Fuseholder, Bowden-Line Switch 2-pole and Voltage Selector

Medical fuse drawer



C14



70° C



Description

- Panel Mount:
Screw-on version from front or rear side, snap-in version from front side
- 4 Functions:
Appliance Inlet, Protection class I Line switch for bowdencable actuation, 2-pole Fuseholder with interchangeable fuse drawer for Fuse-links 5 x 20 mm or 6.3 x 32 mm, Voltage selector
- Quick connect terminals 4.8 x 0.8 mm
- Alternative: version with line filter [CG-Bowdencable](#)

Approvals

- VDE License Number: 40011909
- UL License Number: E93617
- CSA License Number: 38456

Characteristics

- All single elements are already partially wired
- For added safety "Extra-Safe" fuse drawers are available
Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuse drawer can only be opened with the aid of a tool
The fuseholder is accessible from the equipment front
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- For protection class II

References

[General Product Information](#)

Weblinks

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

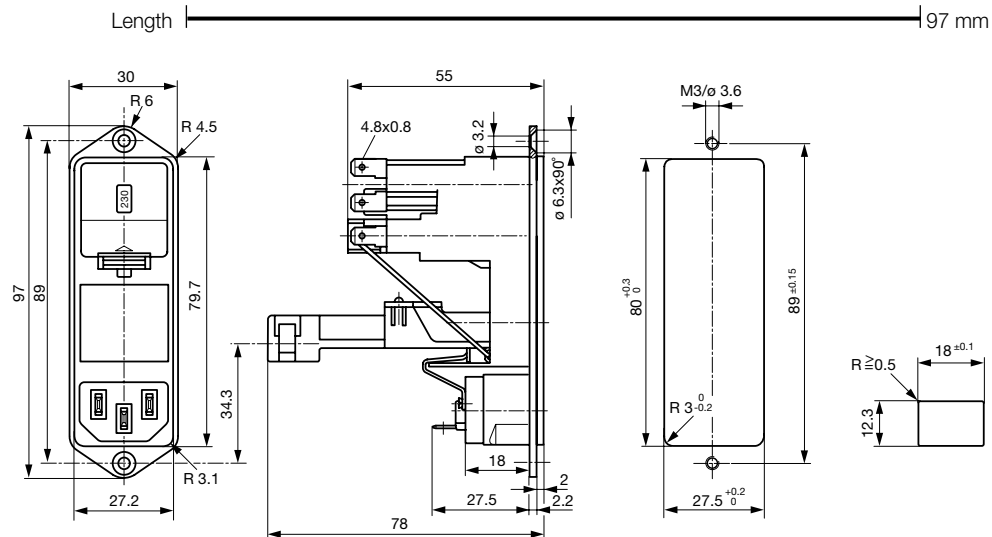
Technical Data

Ratings IEC	6 A / 250 VAC; 50 Hz
Ratings UL/CSA	8 A / 125 VAC; 60 Hz
Allowable Operation Temp.	-25 °C to 70 °C
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 terminals 4.8 x 0.8 mm
Panel Thickness s	Screw-on: max 8 mm Mounting screw torque max 0.5 Nm Snap-in: 1.5 / 2 / 2.5 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 or 6.3 x 32 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2.5 W (1 pole)/ 2 W (2-pole) per pole 6.3 x 32: 3.15 W (1 pole)/ 2.5 W (2-pole) per pole
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves
Line Switch	Switch for bowdencable 2-pole, non-illuminated, acc. to IEC 61058-1 Technical details
Voltage selector	series-parallel, 4, 3 or 2 switch positions or usable as 2-pole change-over switch

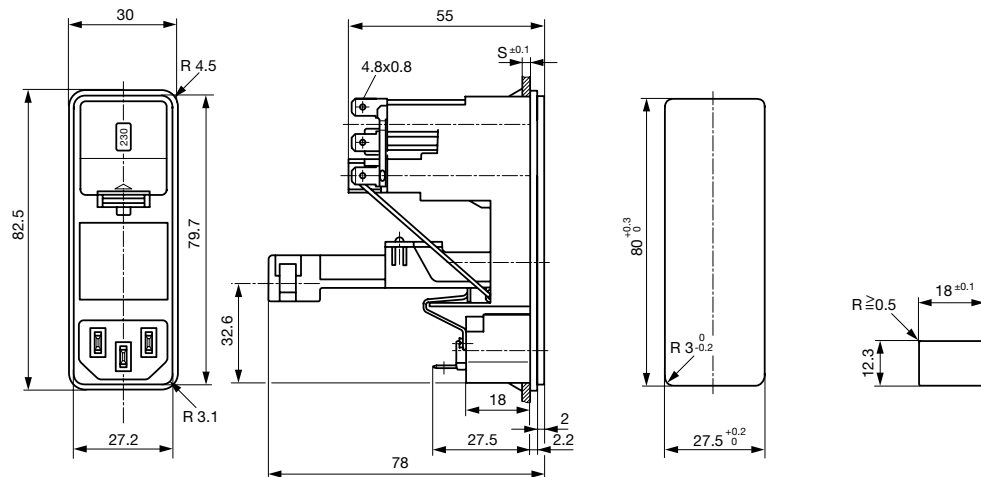
Dimensions

Screw-on mounting



Panel cut-out for the actuating part

Snap-in mounting

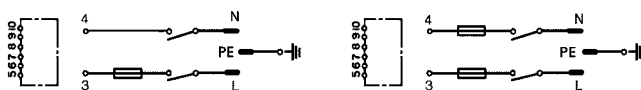


Panel cut-out for the actuating part

Diagrams

with partial internal connections

with partial internal connections

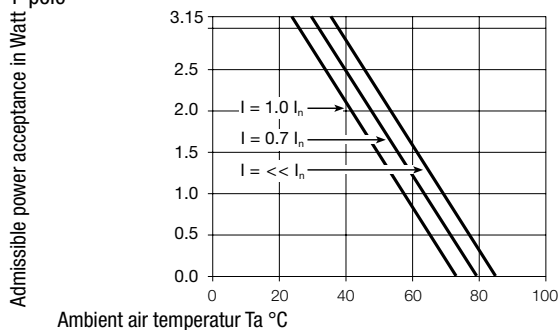


1-pole

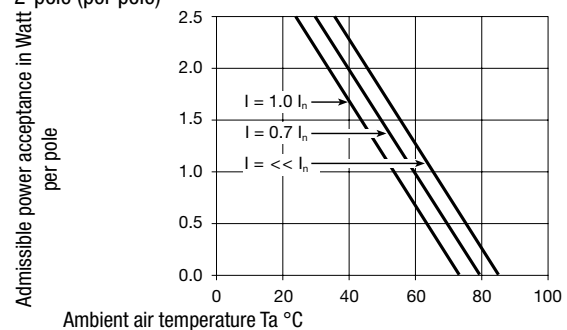
2-pole

Derating Curves

1-pole



2-pole (per pole)



Variants

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

Bowdencable must be ordered separately

Type	Panel mounting	Panel Thickness s [mm]	Fuseholder	Line Switch	Order Number
KG-Bowdencable	Screw-on	-	1 pole	Switch for bowdencable	KG15.6199.151
KG-Bowdencable	Screw-on	-	2-pole	Switch for bowdencable	KG10.6199.151
KG-Bowdencable	Snap-in	1.5	1 pole	Switch for bowdencable	KG15.6199.105
KG-Bowdencable	Snap-in	2	1 pole	Switch for bowdencable	KG15.6199.107
KG-Bowdencable	Snap-in	2.5	1 pole	Switch for bowdencable	KG15.6199.109
KG-Bowdencable	Snap-in	1.5	2-pole	Switch for bowdencable	KG10.6199.105
KG-Bowdencable	Snap-in	2	2-pole	Switch for bowdencable	KG10.6199.107
KG-Bowdencable	Snap-in	2.5	2-pole	Switch for bowdencable	KG10.6199.109

Packaging unit 10 Pcs

Required Accessory

Description



Bowdencables incl. accessory
Bowden Cable for Power Entry Modules



Jumper Wire 1
Connection with Starnded Cable

Type B, 100	0881.0074
Type B, 100	0881.0075
Type A, 100	0881.0076
Type A, 100	0881.0077



Fusedrawer 1
Drawer for fuse links 5x20mm resp. 6.3x32mm

5 x 20, 2-pole	4305.0001
5 x 20, 1 pole	4305.0006
6.3 x 32, 2-pole	4305.0011
6.3 x 32, 1 pole	4305.0016

...



Voltage Selectors Insert 1
Voltage Selector Insert to KE, CE, KG, CG

3 or 4 switch positions	4305.0048.00
1, 3 or 4 switch positions, 100, 120, 220, 240	4305.0048.01
3, 3 or 4 switch positions, 130, 110, 240, 220	4305.0048.02
2, 2 switch positions, 110, 220	4305.0048.03

...

Accessory



Cord retaining kits
Cord retaining strain relieve

Flat head, A	4700.0001
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Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C14 with Fuseholder, Bowden-Line Switch 2-pole and Voltage Selector

Standard or Medical Fuse drawer



C14



70° C



Description

- Panel Mount:
Screw-on version from front or rear side, snap-in version from front side
- 4 Functions:
Appliance Inlet Protection class I, Line switch for bowdencable actuation 2-pole, Fuseholder with interchangeable fuse drawer for Fuse-links 5 x 20 mm or 6.3 x 32 mm, with or without voltage selector (step)
- Quick connect terminals 4.8 x 0.8 mm
- Alternative: version with line filter [CD-Bowdencable](#)

Approvals

- VDE License Number: 40011925
- UL License Number: E93617
- CSA License Number: 38456

Characteristics

- All single elements are already wired
- The fuse drawer "Fingergrip" can be removed by hand
For added safety "Extra-Safe" fuse drawers are available
Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuse drawer can only be opened with the aid of a tool
The fuseholder is accessible from the equipment front
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- For protection class II
- Without voltage selector

References

[General Product Information](#)

Weblinks

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

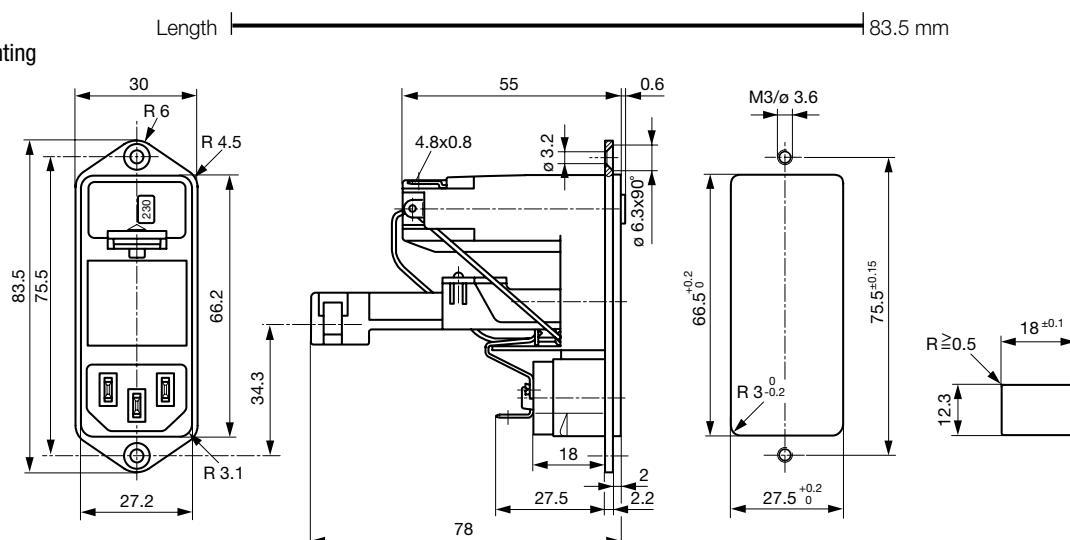
Technical Data

Ratings IEC	6A / 250VAC; 50Hz
Ratings UL/CSA	8A / 125VAC; 60Hz
Dielectric Strength	> 3kVAC between L-N > 4kVAC between L/N-PE (1 min/50Hz)
Allowable Operation Temp.	-25 °C to 70 °C
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 terminals 4.8 x 0.8 mm , tin-plated
Panel Thickness s	Screw-on: max 8 mm Mounting screw torque max 0.5 Nm Snap-in: 1.5 / 2 / 2.5 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection class I
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 or 6.3 x 32 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2.5W (1 pole)/ 2W (2-pole) per pole 6.3 x 32: 3.15W (1 pole)/ 2.5W (2-pole) per pole
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves
Line Switch	Switch for bowdencable 2-pole, non-illuminated, acc. to IEC 61058-1 Technical details
Voltage selector	optional, step, 2-4 digits

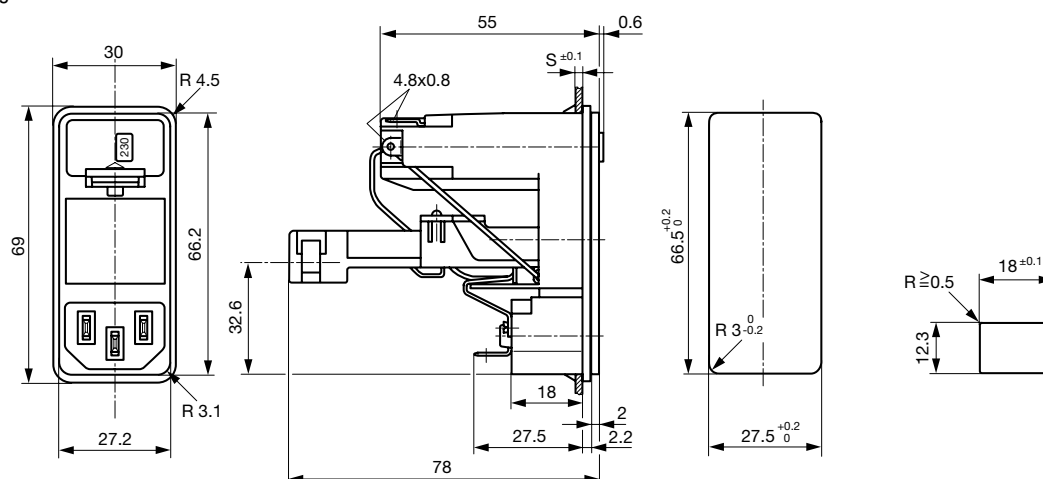
Dimensions

Screw-on mounting



Panel cut-out for the actuating part

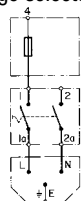
Snap-in mounting



Panel cut-out for the actuating part

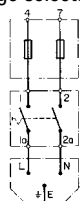
Diagrams

without voltage selector



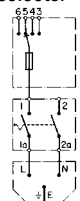
1-pole

without voltage selector



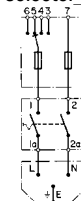
2-pole

with voltage selector



1-pole

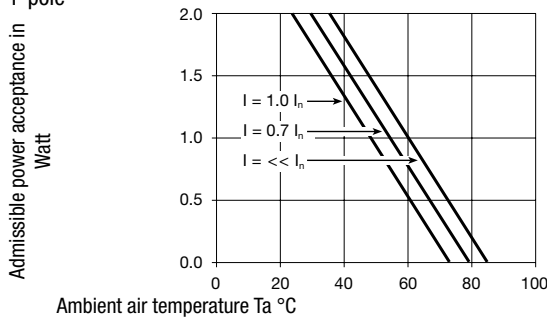
with voltage selector



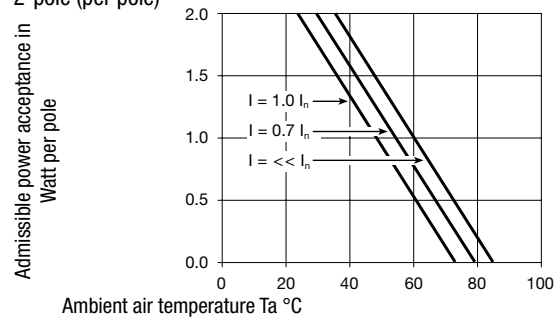
2-pole

Derating Curves

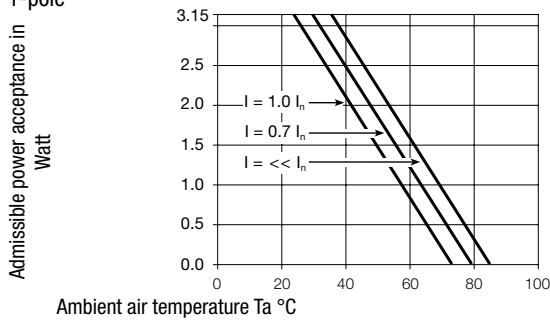
Fuses 5 x 20 mm
1-pole



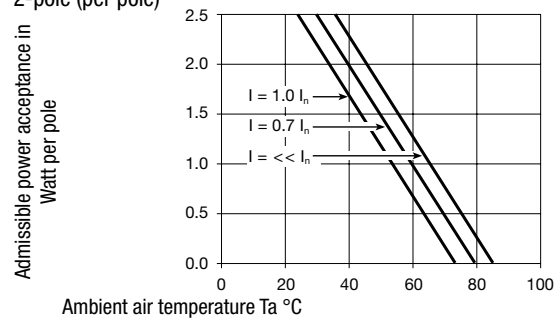
Fuses 5 x 20 mm
2-pole (per pole)



Fuses 6,3 x 32 mm
1-pole



Fuses 6,3 x 32 mm
2-pole (per pole)



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

Bowden cable must be ordered separately

Type	Panel mounting	Panel Thickness s [mm]	Fuseholder	Line Switch	Voltage selector max. 4 pos*	Order Number
KD-Bowdencable	Screw-on	-	1 pole	Switch for bowdencable	without	KD11.4199.151
KD-Bowdencable	Screw-on	-	2-pole	Switch for bowdencable	without	KD14.4199.151
KD-Bowdencable	Snap-in	1.5	1 pole	Switch for bowdencable	without	KD11.4199.105
KD-Bowdencable	Snap-in	2	1 pole	Switch for bowdencable	without	KD11.4199.107
KD-Bowdencable	Snap-in	2.5	1 pole	Switch for bowdencable	without	KD11.4199.109
KD-Bowdencable	Snap-in	1.5	2-pole	Switch for bowdencable	without	KD14.4199.105
KD-Bowdencable	Snap-in	2	2-pole	Switch for bowdencable	without	KD14.4199.107
KD-Bowdencable	Snap-in	2.5	2-pole	Switch for bowdencable	without	KD14.4199.109

Packaging unit 10 Pcs

Required Accessory

Description



[Bowdencables incl. accessory](#)
Bowden Cable for Power Entry Modules

[Fusedrawer 3](#)
Drawers for fuse links 5x20mm resp. 6.3x32mm



Fingergrip, 5 x 20, 2-pole	4303.2401
Extra-Safe, 5 x 20, 2-pole	4303.2403
Fingergrip, 5 x 20, 1 pole	4303.2406
Extra-Safe, 5 x 20, 1 pole	4303.2408

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Accessory



Cord retaining kits
Cord retaining strain relieve

Flat head, A	4700.0001
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Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C14 with Fuseholder and Line Switch 1- or 2-pole

Plug removal necessary for fuse replacement



Snap-In Version

Snap-In Version
KM with shield

C14



70° C

**Description**

- Panel Mount:
- Snap-in version from front side
- 3 Functions:
 - Appliance Inlet Protection class I, Line switch 2-pole, Fuseholder for fuse-links 5 x 20 mm 1- or 2-pole
- Quick connect terminals 4.8 x 0.8 mm
- Alternative: version with line filter [KMF](#)
- Alternative: version for screw mounting [DD11](#)
- With cover on rear-side

Approvals

- VDE License Number: 40021981
- UL License Number: E93617

Characteristics

- Ultra-compact design. Small dimensions in front of and behind the panel
- All single elements are already wired
- For added safety "Extra-Safe" fuse drawers are available
- Fuse drawer meets requirements of medical standard IEC/EN 60601-1
- The fuse drawer can only be opened with the aid of a tool
- The fuseholder is accessible from the equipment front
- Ideal for application with high transient loads
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Fuse drawer 1-pole, plus spare fuse case
- Fuse drawer 2-pole, with shorting bar
- Line switch 1-pole
- Other rocker marking
- Protection class II, 70°C

References
[General Product Information](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

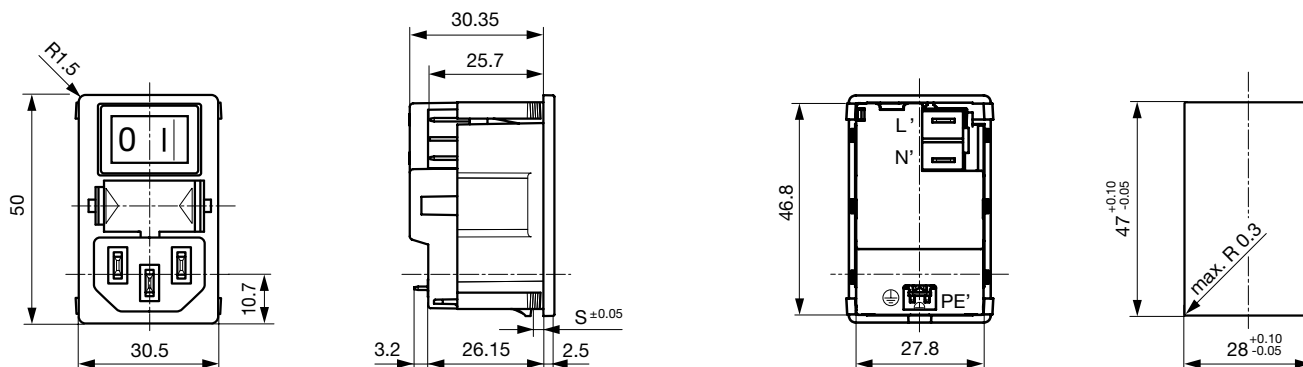
Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 2.5 kVAC between L-N > 3 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Quick connect terminals 4.8 x 0.8 mm, tin-plated
Panel Thickness s	Snap-in: 1 / 1.5 / 2 / 2.5 mm (all steps with one variant)
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2 W (1 pole)/ 1.4 W (2-pole) per pole Choose fuse-links for 2-pole version in such a way that the typical power acceptance is less than 1.4 W for each pole
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves
Line Switch	Rocker switch 2-pole, non-illuminated, acc. to IEC 61058-1 Technical details

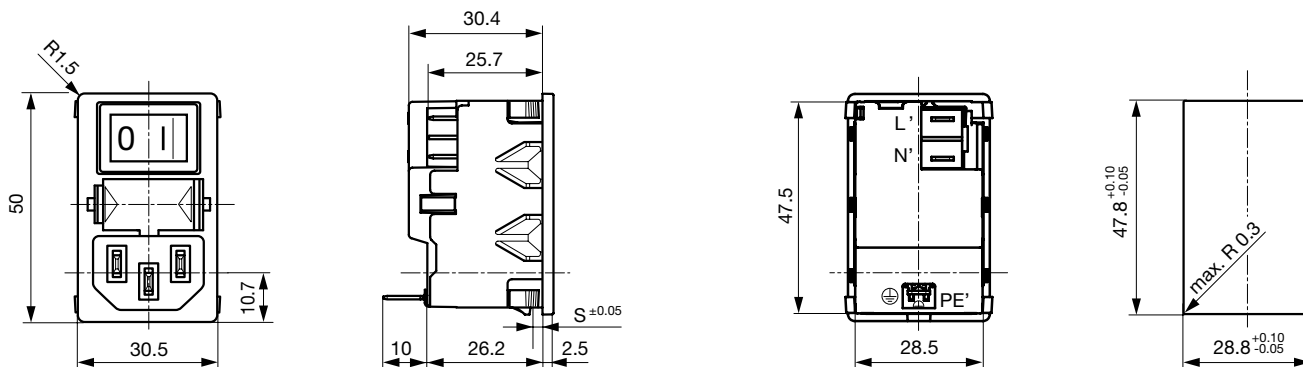
Dimensions

KM without shield

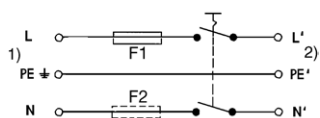
Length |-----| 50 mm



KM with shield

**Diagrams**

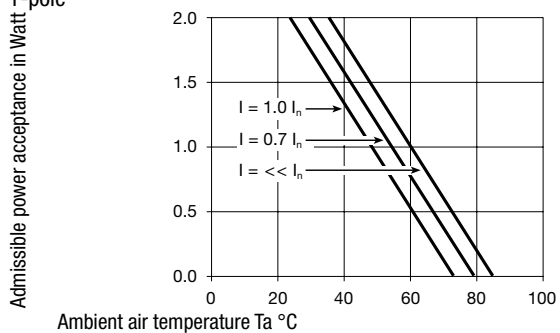
Fuseholder 1- or 2- pole



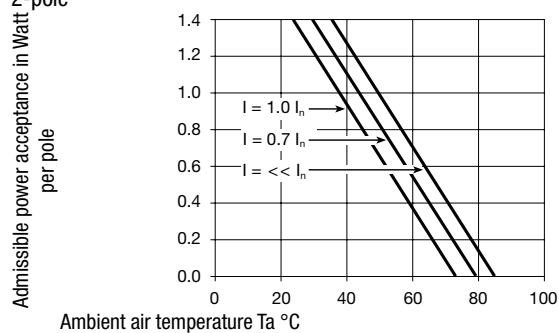
- 1) Line
2) Load

Derating Curves

1-pole



2-pole



Variants

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

Fuse drawer must be ordered separately (see accessories).

Fingergrip and Extra Safe. The same drawer as used by type KEA.

Fuseholder	Line Switch	EMC-Shielding	Order Number
1 pole	2-pole	-	KM00.1205.11
2-pole	2-pole	-	KM00.1105.11
1 pole	2-pole	With EMC-shield and without line filter	KM01.1205.11
2-pole	2-pole	With EMC-shield and without line filter	KM01.1105.11

Packaging unit 50 Pcs

Required Accessory

Description

Fusedrawer 2

Fusedrawer with and without voltage selector insert



Fingergrip, 2-pole	4301.1401
Extra-Safe, 2-pole	4301.1403
Fingergrip, 1 pole	4301.1405
Extra-Safe, 1 pole	4301.1407

...

Accessory



Assorted Covers

Rear Cover

0859.0076



Cord retaining kits

Cord retaining strain relieve

Flat head, A	4700.0001
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Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092



Connector

IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

Inlet for front or rear side mounting, fuse 1-/2-pole, line switch 2-pole

Standard or Medical Fuse drawer

new



Screw-On Version



C14



70° C

**Description**

- Panel Mount:
Screw-on version from front or rear side
- 3 Functions:
Appliance Inlet Protection class I, Line switch 2-pole, Fuseholder for fuse-links 5 x 20 mm 1- or 2-pole
- Quick connect terminals 4.8 x 0.8 mm
- Alternative: version with line filter [DD12](#)
- Alternative: version for snap-in mounting [KM](#)
- Alternative: version for PCB mounting [DD21](#)

Approvals

- VDE License Number: 40018283
- UL License Number: E93617

Characteristics

- Ultra-compact design. Ideal for low profile designs
- All single elements are already wired
- Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuseholder is accessible from the equipment front
For added safety "Extra-Safe" fuse drawers are available
- Ideal for application with high transient loads
Designed for standard and medical applications
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Solder terminals
- Fuse drawer 1-pole, plus spare fuse case
- Fuse drawer 2-pole, with shorting bar
- Other rocker marking
- Line switch 1-pole
- Protection class II, 70°C

References
[General Product Information](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

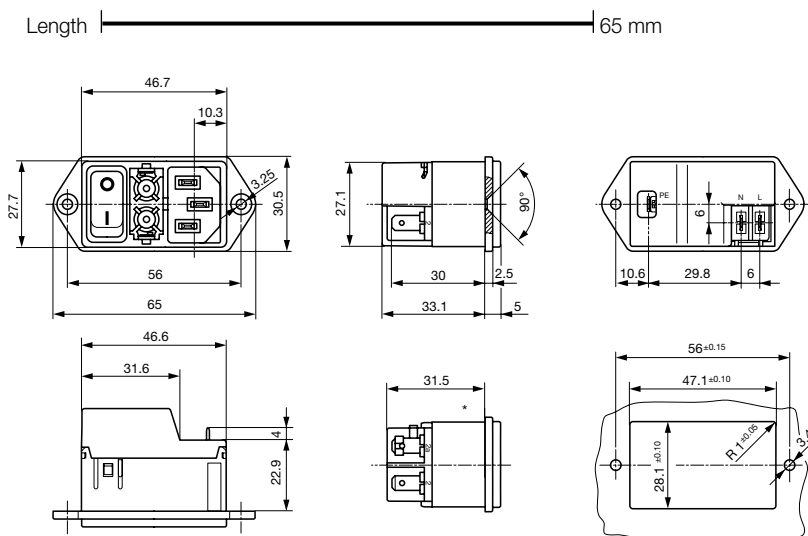
Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	8 A / 250 VAC; 60 Hz ¹⁾
Dielectric Strength	> 2.5 kVAC between L-N > 3 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 85 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Quick connect terminals 4.8 x 0.8 mm
Panel Thickness s	Screw-on: max 8 mm Mounting screw torque max 0.5 Nm Rear side mounting: max 2 mm
Material: Housing	Thermoplastic, black, UL 94V-0

1) with cover 7 A, without cover 8 A

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2 W (1 pole)/ 1.6 W (2-pole) per pole
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves
Line Switch	Rocker switch 2-pole, non-illuminated or illuminated, acc. to IEC 61058-1 Technical details

Dimensions

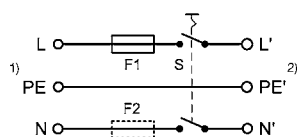
Screw version



*) view without cover

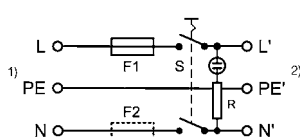
Diagrams

non illuminated



1) Line
2) Load

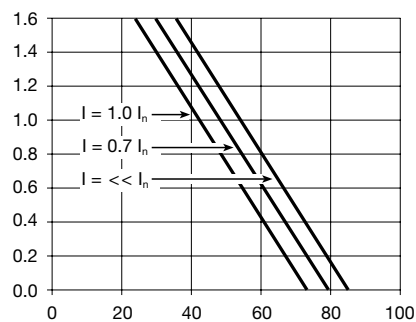
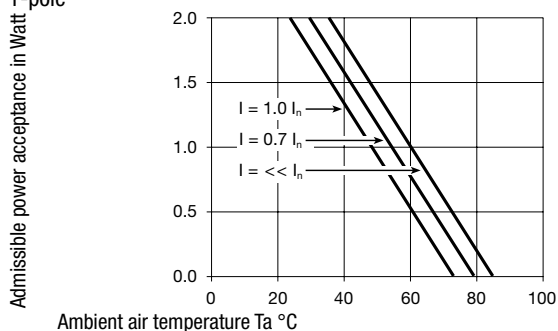
illuminated



1) Line
2) Load

Derating Curves

1-pole



Variants

Fuse drawer must be ordered separately (see accessories).
Fingergrasp and Extra Safe. The same drawer as used by type KEA.

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

Fuseholder	Line Switch	Illumination	Color	Cover ¹⁾	Order Number
1 pole	2-pole	non-illuminated	-		DD11.0111.1110
1 pole	2-pole	illuminated	red		DD11.0113.1110
1 pole	2-pole	illuminated	green		DD11.0114.1110
2-pole	2-pole	non-illuminated	-		DD11.0121.1110
2-pole	2-pole	illuminated	red		DD11.0123.1110
2-pole	2-pole	illuminated	green		DD11.0124.1110
1 pole	2-pole	non-illuminated	-	●	DD11.0111.1111
1 pole	2-pole	illuminated	red	●	DD11.0113.1111
1 pole	2-pole	illuminated	green	●	DD11.0114.1111
2-pole	2-pole	non-illuminated	-	●	DD11.0121.1111
2-pole	2-pole	illuminated	red	●	DD11.0123.1111

Fuseholder	Line Switch	Illumination	Color	Cover ¹⁾	Order Number
2-pole	2-pole	illuminated	green	●	DD11.0124.1111

¹⁾ current rating UL: with cover 7 A, without cover 8 A

Packaging unit 40 Pcs

Required Accessory

Description

Fusedrawer 2

Fusedrawer with and without voltage selector insert



Fingergrip, 2-pole	4301.1401
Extra-Safe, 2-pole	4301.1403
Fingergrip, 1 pole	4301.1405
Extra-Safe, 1 pole	4301.1407

...

Accessory



Cord retaining kits

Cord retaining strain relieve

Flat head, A	4700.0001
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Mating Outlets/Connectors

Category / Description

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Category / Description

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L
...	...

Inlet for PCB mounting, fuse 1-/2-pole, line switch 2-pole

Standard or Medical Fuse drawer

new



Screw-On Version

C14



70° C

**Description**

- Panel Mount:
Screw-on mounting on PCB from rear-side
- 3 Functions:
Appliance Inlet Protection class I, Line switch 2-pole, Fuseholder for fuse-links 5 x 20 mm 1- or 2-pole
- PCB solder terminals
- Alternative: version with line filter [DD22](#)
- With cover on rear-side

Approvals

- VDE License Number: 40018283
- UL License Number: E93617

Characteristics

- Ultra-compact design. Ideal for low profile designs
- All single elements are already wired
- For added safety "Extra-Safe" fuse drawers are available
Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuse drawer can only be opened with the aid of a tool
The fuseholder is accessible from the equipment front
- Ideal for application with high transient loads
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Fuse drawer 1-pole, plus spare fuse case
- Fuse drawer 2-pole, with shorting bar
- Other rocker marking
- Line switch 1-pole
- Protection class II, 70°C

References[General Product Information](#)**Weblinks**

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

Technical Data

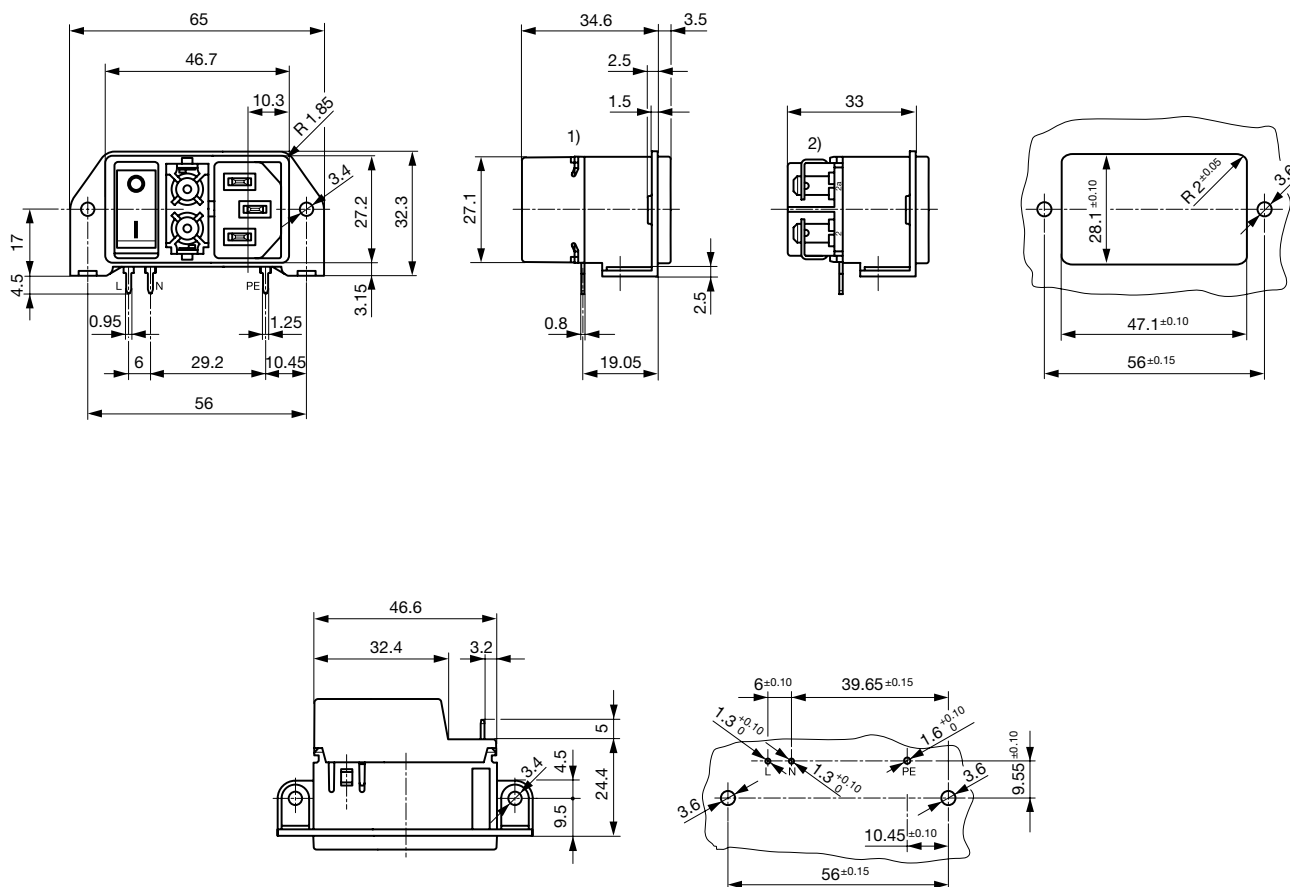
Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	8 A / 125 VAC; 60 Hz
Dielectric Strength	> 2.5 kVAC between L-N > 3 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 85 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I or II acc. to IEC 61140
Terminal	For PCB mounting 3 mm, Ground terminal, additional quick connect 4.8 x 0.8 mm
Panel Thickness s	Screw-on: max 3 mm Mounting screw torque max 0.5 Nm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2 W (1 pole)/ 1.6 W (2-pole) per pole
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves
Line Switch	Rocker switch 2-pole, non-illuminated or illuminated, acc. to IEC 61058-1 Technical details

Dimensions

Screw version

Length  65 mm

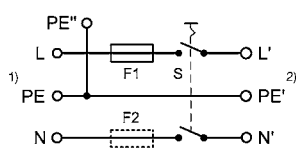


- 1) with cover
2) without cover

For grounding additional quick connect terminal 4.8 x 0.8 mm

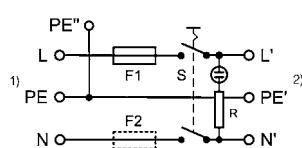
Diagrams

non illuminated



- 1) Line
2) Load

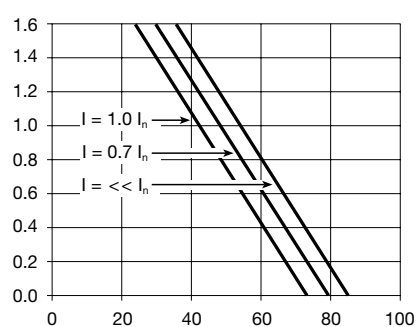
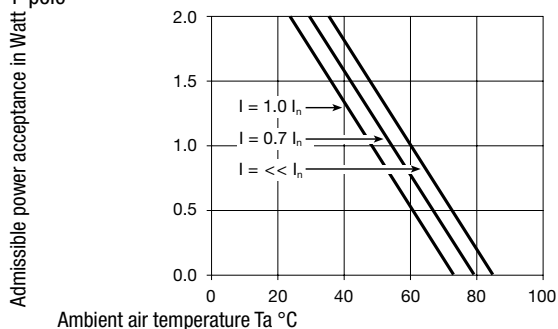
illuminated



- 1) Line
2) Load

Derating Curves

1-pole



Variants

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

Fuse drawer must be ordered separately (see accessories).

Fingergrip and Extra Safe. The same drawer as used by type KEA.

Fuseholder	Line Switch	Illumination	Color	Order Number
1 pole	2-pole	non-illuminated	-	DD21.0111.1111
1 pole	2-pole	illuminated	red	DD21.0113.1111
1 pole	2-pole	illuminated	green	DD21.0114.1111
2-pole	2-pole	non-illuminated	-	DD21.0121.1111
2-pole	2-pole	illuminated	red	DD21.0123.1111
2-pole	2-pole	illuminated	green	DD21.0124.1111

Packaging unit 40 Pcs

Required Accessory

Description

[Fusedrawer 2](#)

Fusedrawer with and without voltage selector insert



Fingergrip, 2-pole	4301.1401
Extra-Safe, 2-pole	4301.1403
Fingergrip, 1 pole	4301.1405
Extra-Safe, 1 pole	4301.1407

...

Mating Outlets/Connectors

Category / Description

[Appliance Outlet](#)

IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

[Connector](#)

IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Category / Description

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L
...	...

IEC Appliance Connector C14 with Appliance Plug F, Line Switch 2-pole and Voltage Selector



Snap-In Version

C14



70° C

F



70° C

**Description**

- Panel Mount:
Snap-in version from rear-side
- 4 Functions:
Appliance Inlet Protection class I, Connector Protection class I, Line switch 1- or 2-pole, with or without voltage selector (Jumper)

Approvals

- VDE License Number: 6090
- UL License Number: E96454
- CSA License Number: 38456

Characteristics

- Low mounting depth behind the panel
- All single elements are already wired except voltage selector
- Line switch non-illuminated
- Voltage selector for two voltage ranges
- Insulation cover on the rear-side
- Especially suitable for use in switching power supplies
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Panel thickness 1.0 mm and 1.2 mm
- Unwired (without pc-board), with pin-terminals
- Wired (with pc-board), with flexible wires
- Line switch with other rocker marking
- Without cover
- Voltage selector with other marking

References

[General Product Information](#)

Weblinks

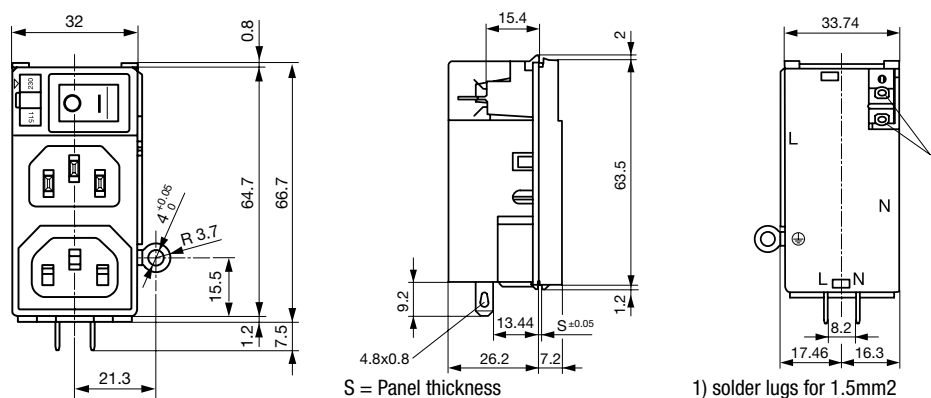
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

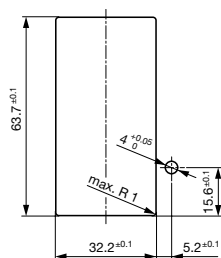
Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 2.5 kVAC between L-N > 3 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Quick connect terminals 4.8 x 0.8 mm Solder terminal on request Solder terminals on voltage selector
Panel Thickness s	Snap-in: 0.8 / 1.5 mm (other on request)
Material: Housing	Thermoplastic, black, UL 94V-2

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1 and F acc. to IEC/EN 60320-2-2, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Line Switch	Rocker switch 1 or 2 pole, non-illuminated, acc. to IEC 61058-1 Technical details
Voltage selector	optional jumper, 2 digits

Dimensions

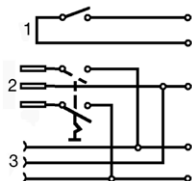


Diagrams



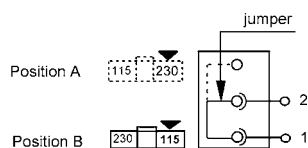
Diagrams

Version: line switch 2-pole



- 1) voltage selector
- 2) appliance-inlet
- 3) appliance-outlet

Voltage selector



Variants

Basic version:

- Marking of the voltage selector 115/230
- with cover on the rear-side

Panel Thickness s [mm]	Line Switch	Voltage selector	Order Number
0.8	1 pole		4307.3001
1.5	1 pole		4307.3004
0.8	1 pole	●	4307.3211
1.5	1 pole	●	4307.3214
0.8	2-pole		4307.4001
1.5	2-pole		4307.4004
0.8	2-pole	●	4307.4211
1.5	2-pole	●	4307.4214

Packaging unit

250 Pcs

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Mating Inlets/Plugs

Category / Description

Interconnection Cord



Power Cord with IEC Appliance Plug E, angled, 70°C	0607
Power Cord with IEC Appliance Plug E, angled, 70°C	0608
Power Cord with IEC Appliance Plug E, straight, 70°C	0609
Power Cord with IEC Appliance Plug G, angled, 70°C	607B
Power Cord with IEC Appliance Plug G, angled, 70°C	608B
Power Cord with IEC Appliance Plug G, straight, 70°C	609B

Plug Connector



IEC plug connector E, rewirable, straight, max. cable diameter 8.5 mm	4732
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4733
IEC plug connector E, rewirable, straight, max. cable diameter 10 mm	4735
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4736
IEC plug connector E, rewirable, straight	9009
IEC plug connector E, rewirable, angled	9013
IEC plug connector E, rewirable, angled	P685

Mating Outlets/Connectors

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C15, rewirable, straight	4781

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C14 or C18 with Line Switch and Fuseholder, 70°C

new



Screw-On Version

**Description**

- Panel Mount:

Screw-on version from front or rear side, Appliance Inlet, protection class I or II, Fuseholder for fuse-links 5 x 20 mm, Line switch 2-pole

- Solder terminals or quick connect terminals

Approvals

- UL License Number: E88880
- CSA License Number: 1084381

Characteristics

- Line switch non-illuminated or illuminated

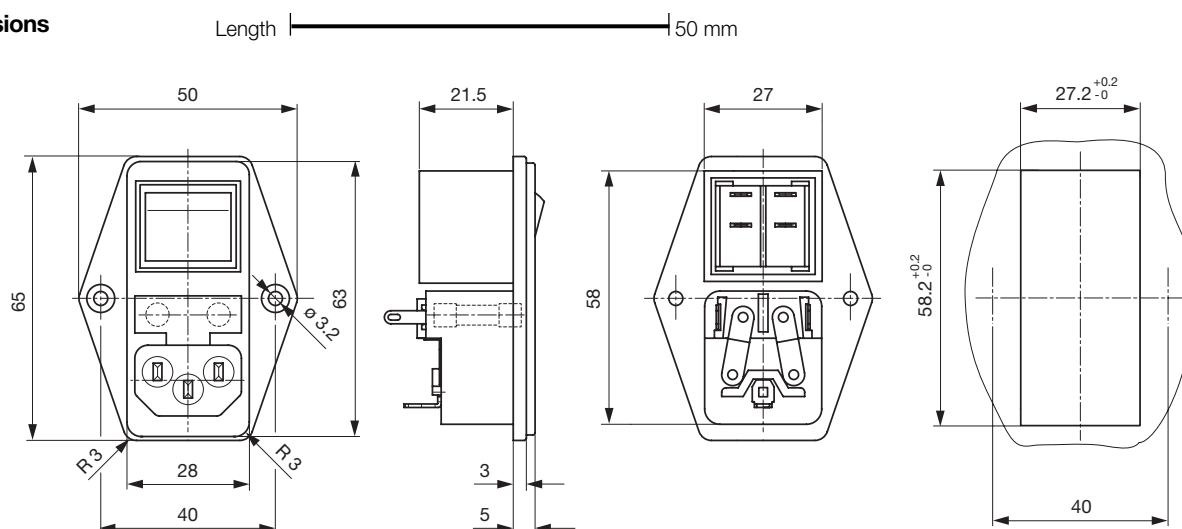
References[General Product Information](#)**Weblinks**

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

Technical Data

Ratings IEC	10 A / 250VAC; 50Hz
Ratings UL/CSA	10 A / 250VAC; 60Hz
Dielectric Strength	> 3kVAC between L-N > 1.5kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I or II acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals
Material: Housing	black, UL 94V-0

Appliance-Inlet/-Outlet	C14/C18 acc. to IEC/EN 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I or II
Fuseholder	1 or 2 pole, acc. to IEC 60127-6, for fuse-links mm
Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves
Line Switch	Rocker switch 2-pole, non-illuminated or illuminated black, acc. to IEC 61058-1 Technical details

Dimensions

length of the terminal please find at the order code configuration table

Packaging unit

50 Pcs

Mating Outlets/Connectors

Category / Description

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06
	...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L
	...

IEC Appliance Connector C14 or C18 with Line Switch and Fuseholder, 70°C

new

**Description**

- Panel Mount:

Snap-in or screw-on mounting, from front side Appliance Inlet, protection class I or II, Fuseholder for fuse-links 5 x 20 mm, Line switch 1- or 2-pole

- Solder terminals or quick connect terminals

Approvals

- VDE License Number: 40013344

- UL License Number: E88880

- CSA License Number: 1084381

Characteristics

- Line switch non-illuminated or illuminated

References[General Product Information](#)**Weblinks**

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

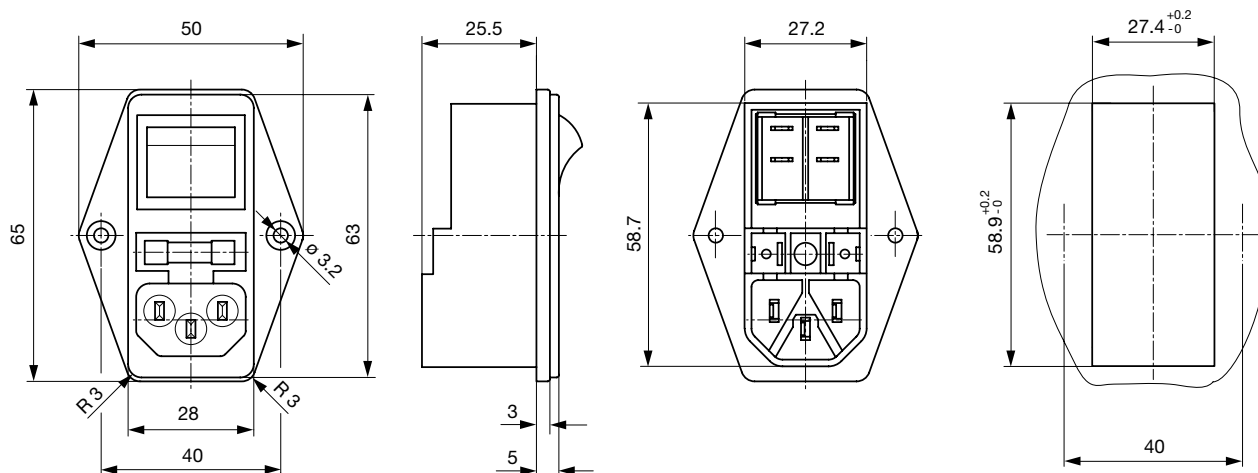
Technical Data

Ratings IEC	10A / 250VAC; 50Hz
Ratings UL/CSA	10A / 250VAC; 60Hz
Dielectric Strength	> 3kVAC between L-N > 1.5kVAC between L/N-PE (1 min/50Hz)
Allowable Operation Temp.	-25°C to 70°C
Degree of Protection	from front side IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I or II acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals
Panel Thickness s	Screw-on Mounting screw torque max 0.5Nm Snap-in 1.0 - 1.5 / 2.0 - 2.5 mm
Material: Housing	black, UL 94V-0

Appliance-Inlet/-Outlet	C14/C18 acc. to IEC/EN 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection class I or II
Fuseholder	1 pole, acc. to IEC 60127-6, for fuse-links mm
Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves
Line Switch	Rocker switch 1 or 2 pole, non-illuminated or illuminated black, acc. to IEC 61058-1 Technical details

Dimensions

Length | 50 mm



length of the terminal please find at the order code configuration table

Packaging unit

50 Pcs

Mating Outlets/Connectors

Category / Description

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C14 with Fuseholder, Line Switch 1- or 2-pole and Voltage Selector

Standard or Medical Fuse drawer



C14

 70° C

**Description**

- Panel Mount:
Screw-on version from front or rear side, snap-in version from front side
- 4 Functions:
Appliance Inlet Protection class I, Line switch 1- or 2-pole, Fuseholder with interchangeable fuse drawer for Fuse-links 5 x 20 mm or 6.3 x 32 mm, with or without voltage selector (step)
- Quick connect terminals 4.8 x 0.8 mm
- Alternative: version with line filter [CD](#)

Approvals

- VDE License Number: 40011925
- UL License Number: E93617
- CSA License Number: 38456

Characteristics

- All single elements are already wired
- The fuse drawer "Fingergrip" can be removed by hand
For added safety "Extra-Safe" fuse drawers are available
Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuse drawer can only be opened with the aid of a tool
The fuseholder is accessible from the equipment front
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Line switch, illuminated
- Line switch with other rocker marking
- Line switch 1-pole
- For protection class II

References

[General Product Information](#)

Weblinks

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

Technical Data

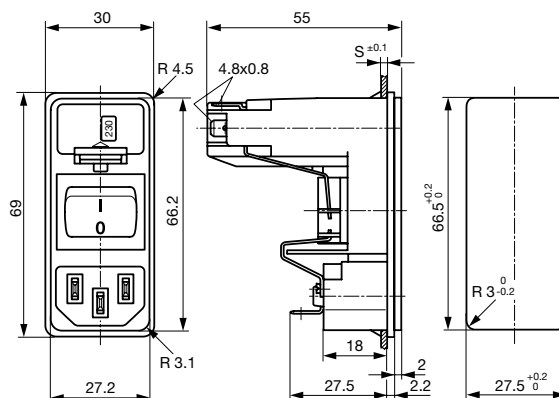
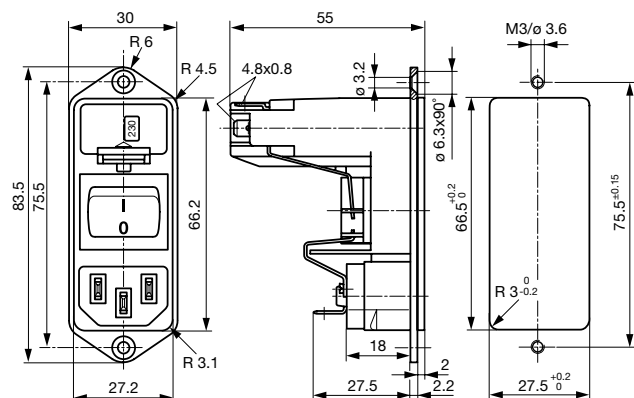
Ratings IEC	10A / 250VAC; 50Hz
Ratings UL/CSA	10A / 125VAC; 60Hz
Dielectric Strength	> 3kVAC between L-N > 4kVAC between L/N-PE (1 min/50Hz)
Allowable Operation Temp.	-25°C to 70°C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Quick connect terminals 4.8 x 0.8 mm , tin-plated
Panel Thickness s	Screw-on: max 8mm Mounting screw torque max 0.5Nm Snap-in: 1.5 / 2 / 2.5 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection class I
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 or 6.3 x 32 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2.5W (1 pole)/ 2W (2-pole) per pole 6.3 x 32: 3.15W (1 pole)/ 2.5W (2-pole) per pole
Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves
Line Switch	Rocker switch 2-pole, non-illuminated, acc. to IEC 61058-1 Technical details
Voltage selector	optional, step, 2-4 digits

Dimensions

Screw-on mounting

Length | Snap-in mounting | 83.5 mm



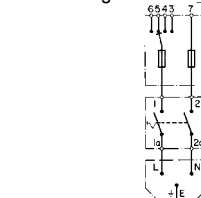
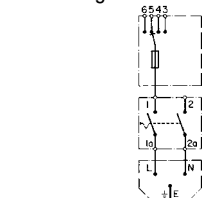
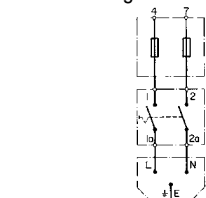
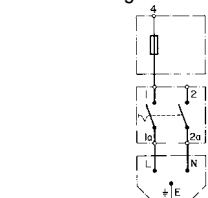
Diagrams

without voltage selector

without voltage selector

with voltage selector

with voltage selector



1-pole

2-pole

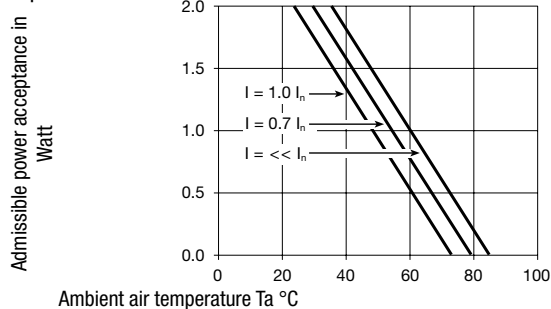
1-pole

2-pole

Derating Curves

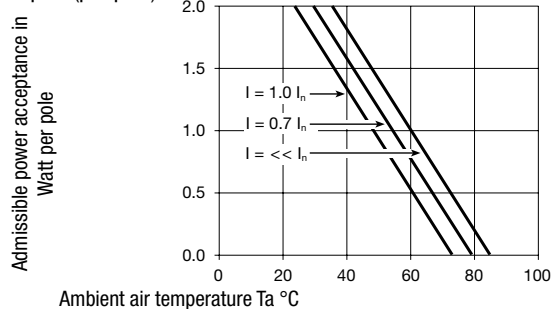
Fuses 5 x 20 mm

1-pole



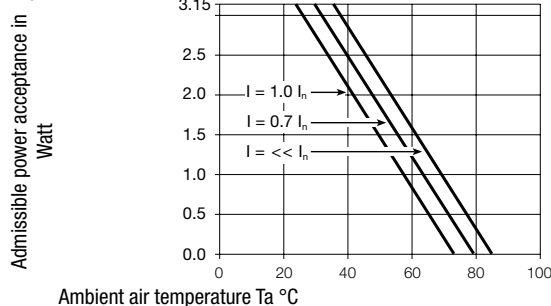
Fuses 5 x 20 mm

2-pole (per pole)



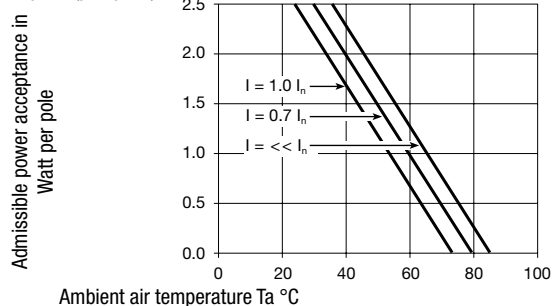
Fuses 6,3 x 32 mm

1-pole



Fuses 6,3 x 32 mm

2-pole (per pole)



Fuse drawer must be ordered separately

Type	Panel mounting	Panel Thickness s [mm]	Fuseholder	Line Switch	Voltage selector max. 4 pos*	Order Number
KD	Screw-on	-	1 pole	Rocker switch	2-4 digits	KD13.4101.151
KD	Screw-on	-	1 pole	Rocker switch	without	KD13.1101.151
KD	Screw-on	-	2-pole	Rocker switch	2-4 digits	KD14.4101.151
KD	Screw-on	-	2-pole	Rocker switch	without	KD14.1101.151
KD	Snap-in	1.5	1 pole	Rocker switch	2-4 digits	KD13.4101.105
KD	Snap-in	2	1 pole	Rocker switch	2-4 digits	KD13.4101.107
KD	Snap-in	2.5	1 pole	Rocker switch	2-4 digits	KD13.4101.109
KD	Snap-in	1.5	1 pole	Rocker switch	without	KD13.1101.105
KD	Snap-in	2	1 pole	Rocker switch	without	KD13.1101.107
KD	Snap-in	2.5	1 pole	Rocker switch	without	KD13.1101.109
KD	Snap-in	1.5	2-pole	Rocker switch	2-4 digits	KD14.4101.105
KD	Snap-in	2	2-pole	Rocker switch	2-4 digits	KD14.4101.107
KD	Snap-in	2.5	2-pole	Rocker switch	2-4 digits	KD14.4101.109
KD	Snap-in	1.5	2-pole	Rocker switch	without	KD14.1101.105
KD	Snap-in	2	2-pole	Rocker switch	without	KD14.1101.107
KD	Snap-in	2.5	2-pole	Rocker switch	without	KD14.1101.109

Can be used as 2-/3-position voltage selector - take only corresponding terminals

Packaging unit 20 Pcs

Required Accessory

Description

Fusedrawer 3

Drawers for fuse links 5x20mm resp. 6.3x32mm



Fingergrip, 5 x 20, 2-pole, Voltage selector	4303.2014.00
Fingergrip, 5 x 20, 2-pole, Voltage selector, 100, 120, 220, 240	4303.2014.01
Fingergrip, 5 x 20, 2-pole, Voltage selector, 110, 150, 220	4303.2014.02
Fingergrip, 5 x 20, 2-pole, Voltage selector, 110, 220	4303.2014.03

...

Accessory



Assorted Covers Rear Cover

0859.0074



Cord retaining kits Cord retaining strain relieve

Flat head, A	4700.0001
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Mating Outlets/Connectors

Category / Description



Appliance Outlet

IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092



Connector

IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C14 with Fuseholder, Line Switch 1- or 2-pole and Voltage Selector

Medical fuse drawer



C14

 70° C

**Description**

- Panel Mount:
Screw-on version from front or rear side, snap-in version from front side
- 4 Functions:
Appliance Inlet, Protection class I Line switch, 1- or 2-pole Fuseholder with interchangeable fuse drawer for Fuse-links 5 x 20 mm or 6.3 x 32 mm, Voltage selector
- Quick connect terminals 4.8 x 0.8 mm
- Alternative: version with line filter [CG](#)

Approvals

- VDE License Number: 40011909
- UL License Number: E93617
- CSA License Number: 38456

Characteristics

- All single elements are already partially wired
- For added safety "Extra-Safe" fuse drawers are available
Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuse drawer can only be opened with the aid of a tool
The fuseholder is accessible from the equipment front
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Line switch, illuminated
- Line switch with other rocker marking
- Line switch 1-pole
- For protection class II

References
[General Product Information](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

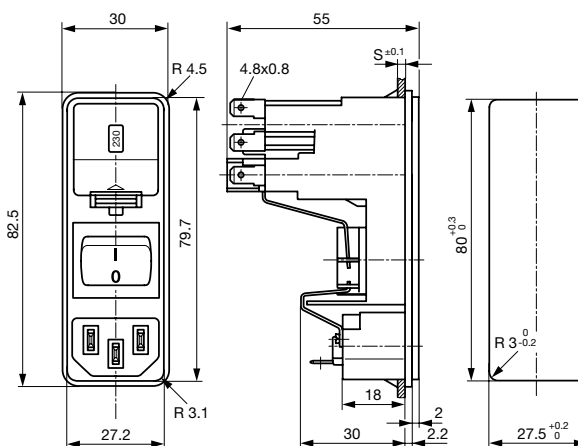
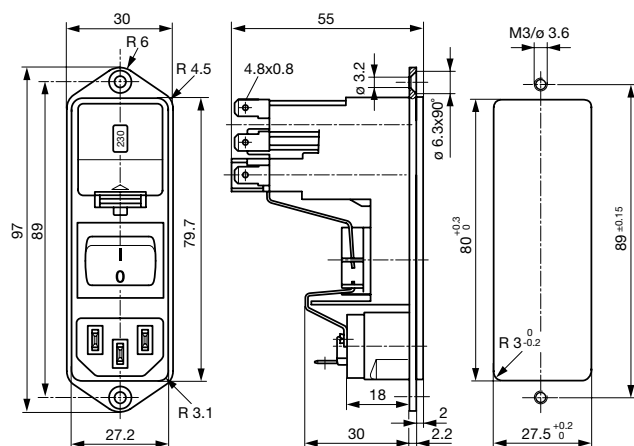
Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 125 VAC; 60 Hz
Dielectric Strength	> 3 kVAC between L-N > 4 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Quick connect terminals 4.8 x 0.8 mm
Panel Thickness s	Screw-on: max 8 mm Mounting screw torque max 0.5 Nm Snap-in: 1.5 / 2 / 2.5 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 or 6.3 x 32 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2.5 W (1 pole)/ 2 W (2-pole) per pole 6.3 x 32: 3.15 W (1 pole)/ 2.5 W (2-pole) per pole
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves
Line Switch	Rocker switch 2-pole, non-illuminated, acc. to IEC 61058-1 Technical details
Voltage selector	series-parallel, 4, 3 or 2 switch positions or usable as 2-pole change-over switch

Dimensions

Screw-on mounting

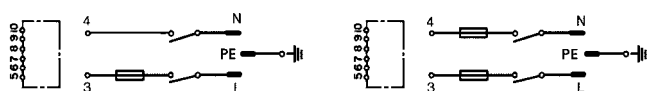
Length | Snap-in mounting | 97 mm



Diagrams

with partial internal connections

with partial internal connections



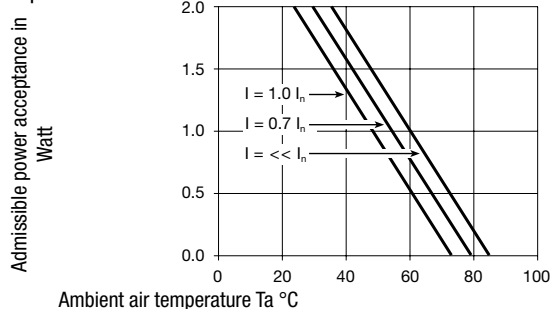
1-pole

2-pole

Derating Curves

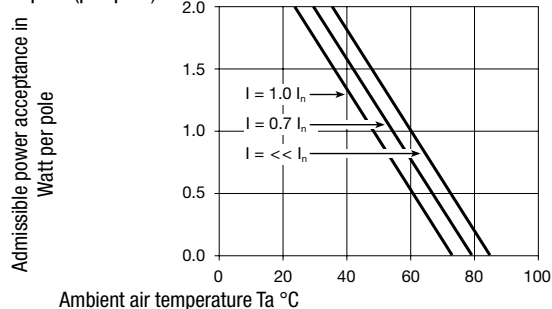
Fuses 5 x 20 mm

1-pole



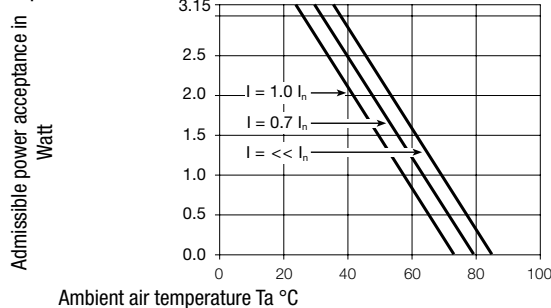
Fuses 5 x 20 mm

2-pole (per pole)



Fuses 6,3 x 32 mm

1-pole



Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

partial wired

Fuse drawer and voltage selector insert must be ordered separately

Type	Panel mounting	Panel Thickness s [mm]	Fuseholder	Line Switch	Order Number
KG	Screw-on	-	1 pole	Rocker switch	KG16.5101.151
KG	Screw-on	-	2-pole	Rocker switch	KG10.6101.151
KG	Snap-in	1.5	1 pole	Rocker switch	KG16.5101.105
KG	Snap-in	2	1 pole	Rocker switch	KG16.5101.107
KG	Snap-in	2.5	1 pole	Rocker switch	KG16.5101.109
KG	Snap-in	1.5	2-pole	Rocker switch	KG10.6101.105
KG	Snap-in	2	2-pole	Rocker switch	KG10.6101.107
KG	Snap-in	2.5	2-pole	Rocker switch	KG10.6101.109

Packaging unit 20 Pcs

Required Accessory

Description



Jumper Wire 1

Connection with Starnded Cable

Type B, 100	0881.0074
Type B, 100	0881.0075
Type A, 100	0881.0076
Type A, 100	0881.0077



Fusedrawer 1

Drawer for fuse links 5x20mm resp. 6.3x32mm

5 x 20, 2-pole	4305.0001
5 x 20, 1 pole	4305.0006
6.3 x 32, 2-pole	4305.0011
6.3 x 32, 1 pole	4305.0016

...



Voltage Selectors Insert 1

Voltage Selector Insert to KE, CE, KG, CG

3 or 4 switch positions	4305.0048.00
1, 3 or 4 switch positions, 100, 120, 220, 240	4305.0048.01
3, 3 or 4 switch positions, 130, 110, 240, 220	4305.0048.02
2, 2 switch positions, 110, 220	4305.0048.03

...

Accessory



Assorted Covers
Rear Cover

0859.0109



Cord retaining kits
Cord retaining strain relieve

Flat head, A

4700.0001

Mating Outlets/Connectors

Category / Description



Appliance Outlet

IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C14, with Line Switch, Voltage Selector and Fuseholder, 70°C

new



Screw-On Version

C14



70° C



Description

- Panel Mount:
 - Screw-on version from front or rear side, Appliance Inlet, Protection class I, Voltage selector, Line switch 2-pole
 - Solder terminals or quick connect terminals

Approvals

- UL License Number: E88880
- CSA License Number: 1084381

Characteristics

- With voltage selector and line switch

References

General Product Information

Weblinks

Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check

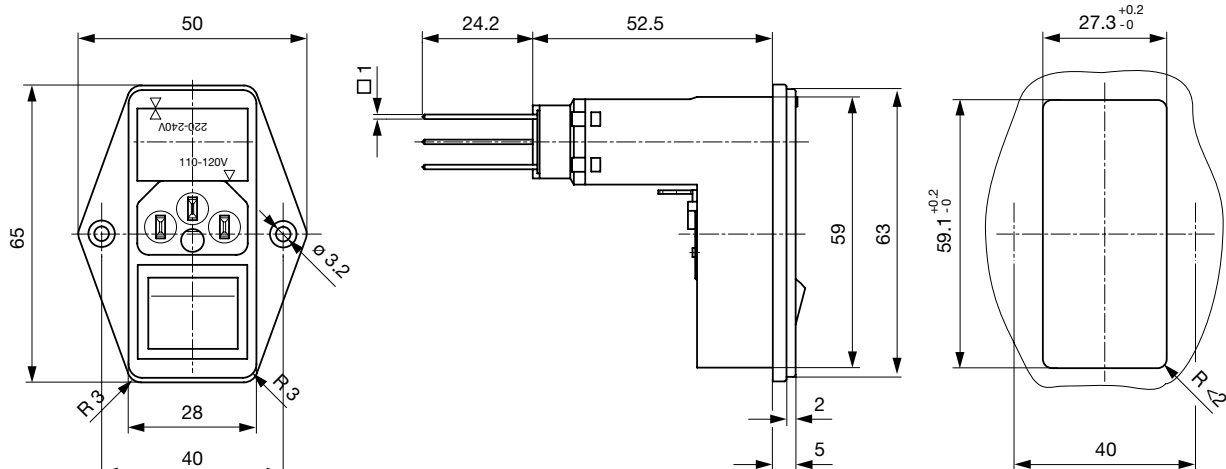
Technical Data

Ratings IEC	10A / 250VAC; 50Hz
Ratings UL/CSA	10A / 250VAC; 60Hz
Dielectric Strength	> 3kVAC between L-N > 1.5kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals
Panel Thickness s	:
Material: Housing	black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection class I
Fuseholder	1 or 2 pole, acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves
Line Switch	Rocker switch 2-pole, non-illuminated or illuminated black, acc. to IEC 61058-1 Technical details
Voltage selector	Step switch, 2 positions

Dimensions

Length |-----| 40 mm



length of the terminal please find at the order code configuration table

Packaging unit 50 Pcs

Mating Outlets/Connectors

Category / Description



Appliance Outlet

IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092



Connector

IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

IEC Appliance Connector C14, with Line Switch, Voltage Selector and Fuseholder, 70°C

new



Screw-On Version

**Description**

- Panel Mount:
Screw-on from front side, Appliance Inlet, Protection class I, Voltage selector, Line switch 2-pole
- Solder terminals or quick connect terminals

Approvals

- CSA License Number: 1084381

References

General Product Information

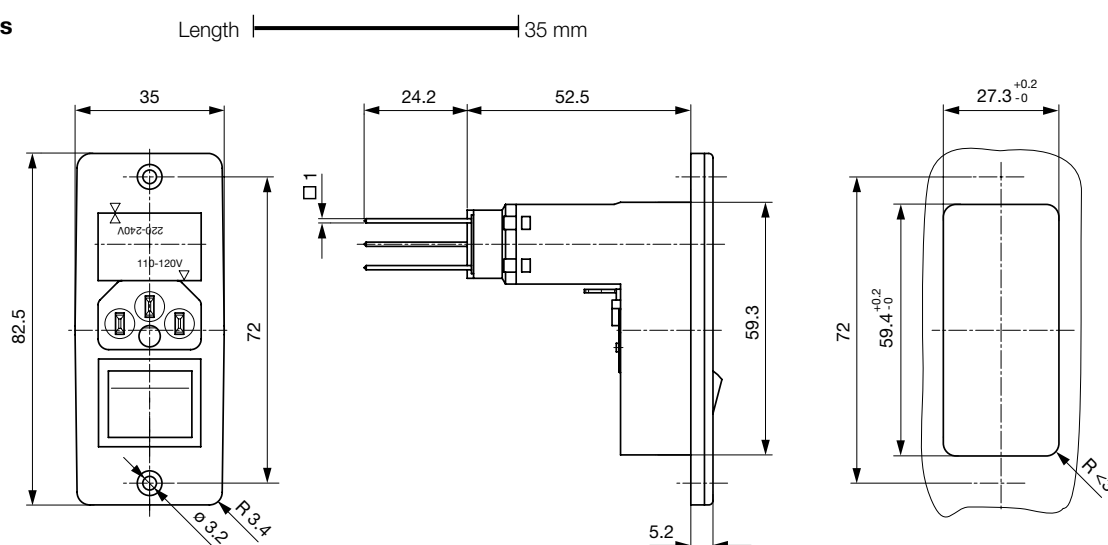
Weblinks

Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check

Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 3 kVAC between L-N > 1.5 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals
Panel Thickness s	:
Material: Housing	black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	1 or 2 pole, acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves
Line Switch	Rocker switch 2-pole, non-illuminated or illuminated black, acc. to IEC 61058-1 Technical details
Voltage selector	Step switch, 2 positions

Dimensions

length of the terminal please find at the order code configuration table

Packaging unit

50 Pcs

Mating Outlets/Connectors

Category / Description



Appliance Outlet

IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092



Connector

IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

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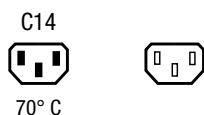
IEC Appliance Connector C14 with modular extended Components

Plug removal necessary for fuse replacement



6421.005X.XX

Appliance inlet

Appliance outlet
Snap-In Version

6431.005X.XX

Appliance inlet

Switch
Appliance outlet

6432.0X5X.XX

Appliance inlet

Fuseholder

Switch

Appliance outlet
Snap-In Version**Description**

- Panel Mount:
Snap-in version from front side
- 2 - 4 Functions:
Appliance Inlet Protection class I, Connector Protection class I, Line switch 2-pole, Fuseholder for fuse-links 5 x 20 mm 1- or 2-pole
- Solder terminals 3.5 x 0.8 mm or quick connect terminals 6.3 x 0.8 mm
- Alternative: version with line filter [Felcom 54](#)

Approvals

- VDE License Number: 108162
- UL License Number: E103791
- CSA License Number: 38456

Characteristics

- Modular component selection
- Individual components soldered on a printed circuit board
- Plug removal necessary for fuse-link replacement
Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuseholder is accessible from the equipment front
- Fully insulated from the rear
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

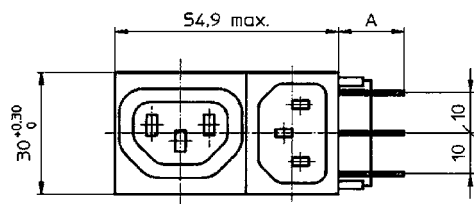
- Line switch with other rocker marking

References
[General Product Information](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

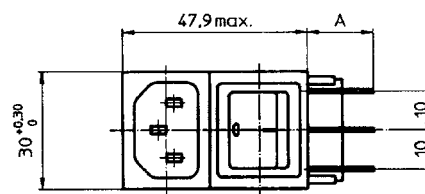
Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 125/250 VAC; 60 Hz
Allowable Operation Temp.	-25 °C to 70 °C
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Solder terminals 3.5 x 0.8 mm or quick connect terminals 6.3 x 0.8 mm, tin-plated
Panel Thickness s	Snap-in: 1 / 1.2 / 1.5 / 2 / 2.5 / 3 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1 and F acc. to IEC/EN 60320-2-2, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2 W (1 pole)/ 1.6 W (2-pole) per pole
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves
Line Switch	Rocker switch 2-pole, non-illuminated, IEC 61058-1 Technical details

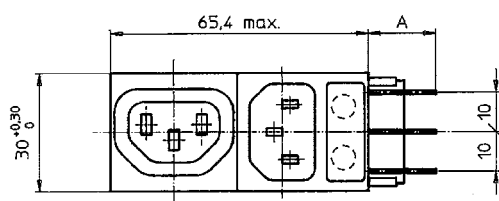
Dimensions



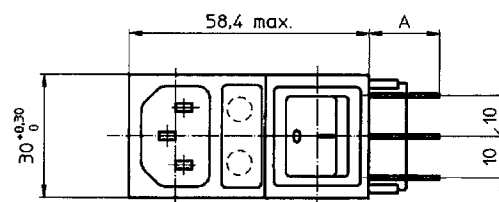
Variants 6421.005X.XX
Mounting hole: 53.6+0,2 x 27.6+0,2



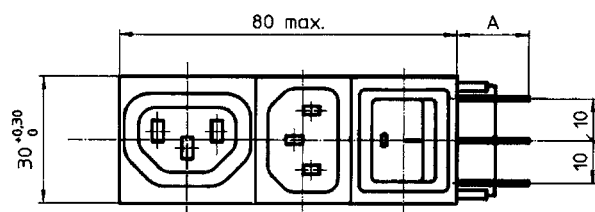
Variants 6422.005X.XX
Mounting hole: 46.7+0,2 x 27.6+0,2



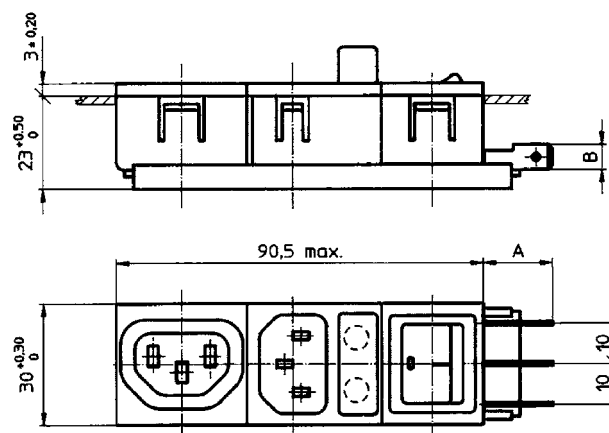
Variants 6423.0X5X.XX
Mounting hole: 65.5+0,2 x 27.6+0,2



Variants 6424.0X5X.XX
Mounting hole: 57+0,2 x 27.6+0,2



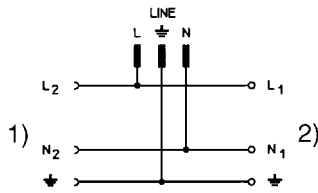
Variants 6431.005X.XX
Mounting hole: 80.1+0,2 x 27.6+0,2



Variants 6432.0X5X.XX
Mounting hole: 90.6+0,2 x 27.6+0,2

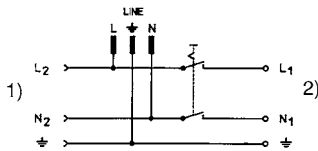
Diagrams

6421



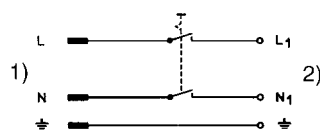
- 1) Load 2
2) Load 1

6431



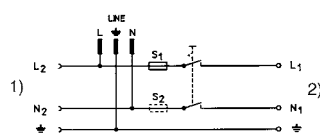
- 1) Load 2
2) Load 1

6422



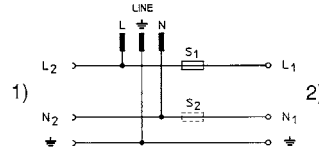
- 1) Line
2) Load 1

6432



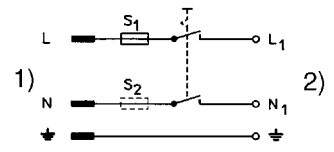
- 1) Load 2
2) Load 1

6423



- 1) Load 2
2) Load 1

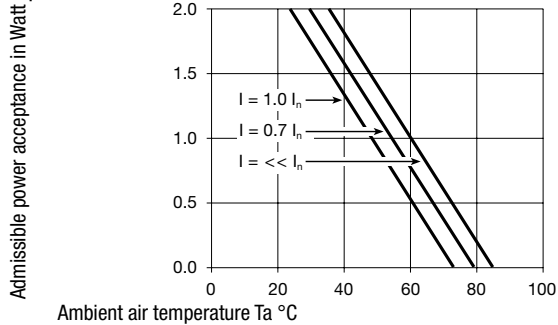
6424



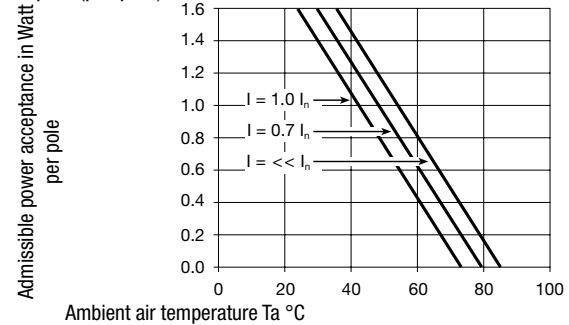
- 1) Line
2) Load 1

Derating Curves

1-pole



2-pole (per pole)



Ordering instructions

64 XX.0X5X.XX

“Snap-in” panel thickness

10 = 1,0 mm

12 = 1,2 mm

15 = 1,5 mm

20 = 2,0 mm

25 = 2,5 mm

30 = 3,0 mm

Connection

51 = solder terminals 3,5 x 0,8 mm

53 = quick connect terminals 6,3 x 0,8 mm

Fuseholder 5 x 20 mm

00 = without fuseholder

01 = 1-pole

02 = 2-pole

Module combination

21 = Appliance inlet, outlet

22 = Appliance inlet, switch

23 = Appliance inlet, fuseholder, outlet

24 = Appliance inlet, fuseholder, switch

31 = Appliance inlet, outlet, switch

32 = Appliance inlet, fuseholder, outlet, switch

Base model

Packaging unit

10 Pcs

Accessory

Description



Cord retaining kits

Cord retaining strain relieve

Flat head, A	4700.0001
Flat head, E	4700.0005
Flat head, G	4700.0007

Mating Inlets/Plugs

Category / Description

Interconnection Cord



Power Cord with IEC Appliance Plug E, angled, 70°C	0607
Power Cord with IEC Appliance Plug E, angled, 70°C	0608
Power Cord with IEC Appliance Plug E, straight, 70°C	0609
Power Cord with IEC Appliance Plug G, angled, 70°C	607B
Power Cord with IEC Appliance Plug G, angled, 70°C	608B
Power Cord with IEC Appliance Plug G, straight, 70°C	609B

Plug Connector



IEC plug connector E, rewirable, straight, max. cable diameter 8.5 mm	4732
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4733
IEC plug connector E, rewirable, straight, max. cable diameter 10 mm	4735
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4736
IEC plug connector E, rewirable, straight	9009
IEC plug connector E, rewirable, angled	9013
IEC plug connector E, rewirable, angled	P685

Mating Outlets/Connectors

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Category / Description

Power Supply or Interconnection Cord



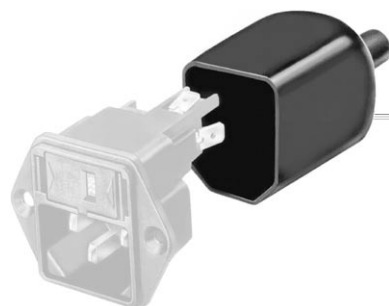
Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L
...	



accessories types

Assorted Covers	202
Cord retaining kits	203
Fusedrawer 1	208
Fusedrawer 2	209
Fusedrawer 3	210
Bowdencables incl. accessory	211
Jumper Wire 1	213
Voltage Selectors Insert 1	214

Rear Cover



E.g. KEA with rear cover



E.g. Rear cover for GSF1



Description

- Component:
Press-Fit Version, Rear Mounting
- 1 Function:

References

[General Product Information](#)

Weblinks

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

Packaging unit

100 Pcs

Cord retaining strain relieve

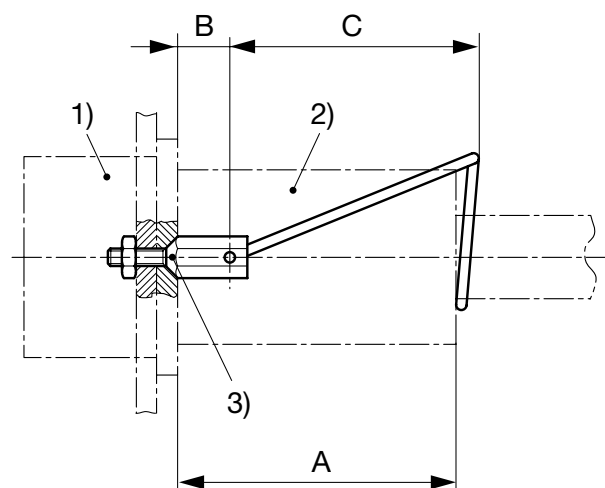


4700.00XX

0888.0021

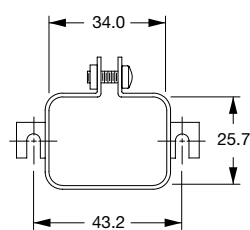
**Description**

- Front-side:
Screw-on from front side
- 1 Function:
Protection against accidental disconnection of the plug

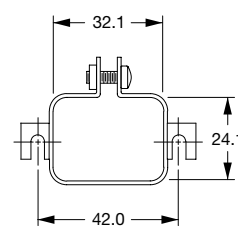
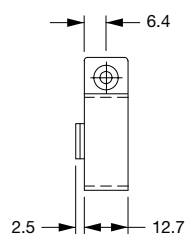
References
[General Product Information](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Dimensions

(Details see overview table and table of variants)

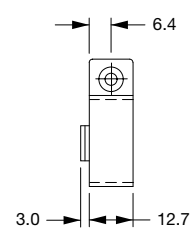
1) Inlet/Outlet 2) Plug/Connector 3) Design

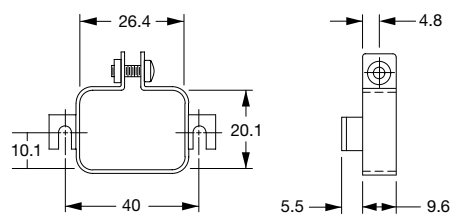


0888.0019

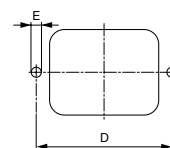


0888.0020



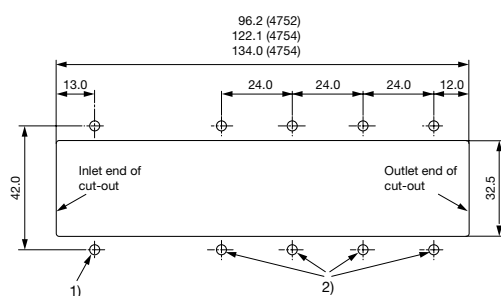


0888.0021



(Details see overview table and table of variants)

Holes according inlet/outlet dimensions centered to respectively inlet/outlet



(Details see overview table)

								Cord plug/connector								
								Type	4781	4782	4795	4732	4735	4796	3020	302U
								Dimension A	61.5	61.5	57.0	55.5	60.0	58.0	-	-
								Plug	*	*	*	*	*	*	*	*
								Connector	*	*	*	*	*	*	*	*
Appliance inlet/outlet																
Type	Snap-in Mounting	Screw-on Mounting	Mounting from Frontside	Mounting from Rearside	Outlet	Inlet	Panel Thickness									
4707		*	*		*				B	B						
4721		*	*		*						D					
4721		*	*		*							F				
4723	*		*		*						E					
4723	*		*		*							G				
4752	*		*		*						E					
4752	*		*		*							G				
4754	*		*		*						E					
4754	*		*		*	*						G				
4758	*		*		*				H	H					Z	Z
4758	*		*		*	*					E					
4758	*		*		*	*					G					
4793		*	*		*	*			H	H					Z	Z
4797	*		*		*	*					L					
4797		*	*		*	*								L		
4798		*	*		*	*					K					
5110	*		*		*	*			A	A						
5110		*	*		*	*			C	C					Z	Z
5120	*		*		*	*			G	G					Z	Z
5120		*	*		*	*			G	G					Z	Z
5120		*	*		*	*	>5mm		E	E					Z	Z
5120		*	*		*	*	<3mm		G	G					Z	Z
5150	*		*		*	*			G	G					Z	Z
5150		*	*		*	*			G	G					Z	Z
5150		*	*		*	*	>5mm		E	E					Z	Z
5150		*	*		*	*	<3mm		G	G					Z	Z
5130	*		*		*	*					L					
5130		*	*		*	*					L					
5130		*	*	*	*	*	<3mm				L					
5200		*	*		*	*			B	B						
5220		*	*		*	*			B	B						
6100	*		*		*	*			A	A						
6100		*	*		*	*			C	C					Z	Z
6110	*		*		*	*			A	A						
6110		*	*		*	*			C	C					Z	Z
6135	*		*		*	*			A	A						
6200	*		*		*	*			A	A						
6200		*	*		*	*			B	B						
6220	*		*		*	*			A	A						
6220		*	*		*	*			B	B						
6600	*		*		*	*					E					
6600	*		*		*	*						G				
6600		*	*		*	*					D					
6600		*	*		*	*						F				
6610	*		*		*	*						G				
0723		*	*		*	*								J		
C20F	*		*		*	*					L					
C20F		*	*		*	*					L					
C20F		*	*	*	*	*	<3mm				L					
CD	*	*	*		*	*			A	A						
CE	*	*	*		*	*			A	A						
CG	*	*	*		*	*			A	A						
DC11	*		*		*	*			A	A						
DC11		*	*		*	*			B	B						
DC12	*		*		*	*			A	A						
DC12		*	*		*	*			B	B						
DC12		*	*	*	*	*			A	A						
DC21		*	*		*	*			G	G					Z	Z
DD11		*	*		*	*			A	A						
DD11		*	*		*	*	<3mm		A	A						
DD12		*	*		*	*			A	A						
DD12		*	*	*	*	*	<3mm		A	A						
DD21		*	*		*	*	<3mm		A	A						
DD22		*	*		*	*	<3mm		A	A						
EC11		*	*		*	*			A	A					Z	Z
EC12		*	*		*	*					M				Z	Z
EF11		*	*		*	*					M				Z	Z
EF12		*	*		*	*					M				Z	Z
EG11		*	*		*	*					M				Z	Z
EG12		*	*		*	*					M				Z	Z

								Cord plug/connector								
								Type	4781	4782	4795	4732	4735	4796	3020	302U
								Dimension A	61.5	61.5	57.0	55.5	60.0	58.0	-	-
								Plug	*	*	*	*	*	*		
Connector								*	*	*	*	*	*	*	*	
Appliance inlet/outlet																
Type	Snap-in Mounting	Screw-on Mounting	Mounting from Frontside	Mounting from Rearside	Outlet	Inlet	Panel Thickness									
FELCOM 54	*		*		*				A	A						
FELCOM 54	*		*		*						E					
FELCOM 54	*		*			*						G				
FELCOM 64	*		*		*				A	A						
FELCOM 64	*		*		*						E					
FELCOM 64	*		*			*						G				
KD	*	*	*			*			A	A						
KE	*	*	*			*			A	A						
KEA	*		*			*			A	A						
KEA		*	*			*			B	B						
KEB I	*		*			*			A	A						
KEB I		*	*			*			B	B						
KEB II	*	*	*			*			A	A						
KEC	*	*	*			*			A	A						
KFA	*		*			*			A	A						
KFA		*	*			*			B	B						
KFA		*		*	*	*			A	A						
KFB I		*	*			*			B	B						
KFB II	*	*	*			*			A	A						
KFC	*	*	*			*			A	A						
KFS		*	*			*			C	C				Z	Z	
KFX		*	*			*			C	C				Z	Z	
KG		*	*			*			A	A						
KM	*		*			*			A	A						

Packaging unit 50 Pcs

Drawer for fuse links 5x20mm resp. 6.3x32mm

Medical fuse drawer



(Fuse links not enclosed)



Description

- Component:
Extra-Safe
- 1 Function:
Fuseholder for Fuse-links 5 x 20 mm or 6.3 x 32 mm
- Fits to type: [CE](#); [CG](#); [CG-Bowdencable](#); [KE](#); [KG](#); [KG-Bowdencable](#)
- Approved together with power entry module

Characteristics

- The fuseholder is accessible from the equipment front
For added safety "Extra-Safe" fuse drawers are available
Fuse drawer meets requirements of medical standard IEC/EN 60601-1
- Qualified for use in equipment according IEC/EN 60950

References

[General Product Information](#)

Weblinks

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

Packaging unit

50 Pcs

Fusedrawer with and without voltage selector insert

Standard or Medical Fuse drawer



Fuse drawer without voltage selector
insert with shorting bar
(Fuse links not enclosed)

Fuse drawer with voltage selector insert
(Fuse links not enclosed)



Description

- Component
- Snap-in version from front side
- 2 Functions:
Fuseholder, Voltage selector
- Fits to type: [DD11](#); [DD12](#); [DD21](#); [DD22](#); [KEA-Print](#); [KFA](#); [KMF](#)
- Approved together with power entry module

Characteristics

- Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuse drawer "Fingergrip" can be removed by hand
The fuseholder is accessible from the equipment front
- Designed for standard and medical applications
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Fuse drawer with other voltage values

References

[General Product Information](#)

Weblinks

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

Packaging unit 50 Pcs

Drawers for fuse links 5x20mm resp. 6.3x32mm

Standard or Medical Fuse drawer



Fuse drawer "Fingergrab" with voltage selector
(Fuse links not enclosed)



Fuse drawer "Extrasafe" without voltage selector
(Fuse links not enclosed)



Description

- Component:
Snap-in, Rear Mounting
- 2 Functions:
Fuseholder for Fuse-links 5 x 20 mm or 6.3 x 32 mm, Voltage selector insert
- Fits to type: [CD](#); [CD-Bowdencable](#); [KD](#); [KD-Bowdencable](#); [KEC](#); [KFC](#)
- Approved together with power entry module

Characteristics

- Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuse drawer "Fingergrab" can be removed by hand
For added safety "Extra-Safe" fuse drawers are available
With spare fuse compartment
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Fuse drawer with other voltage values

References

[General Product Information](#)

Weblinks

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

Packaging unit

50 Pcs

Bowden Cable for Power Entry Modules



Type A (Snap-in mounting)

Type B (Screw-on mounting)

**Description**

- Component:
Snap-in or screw-on mounting, front or rear-side
- Fits to type: [CD-Bowdencable](#); [CG-Bowdencable](#); [KD-Bowdencable](#); [KG-Bowdencable](#)
- Approved together with power entry module

Characteristics

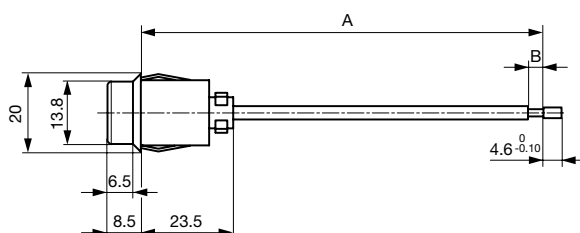
- Designed for universal industrial applications

References

[General Product Information](#)

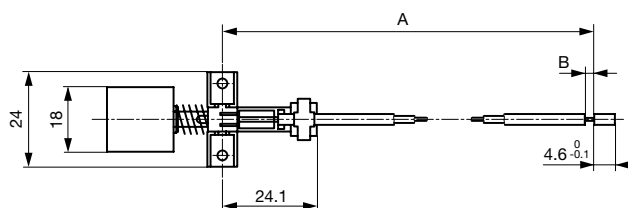
Weblinks

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

Dimensions

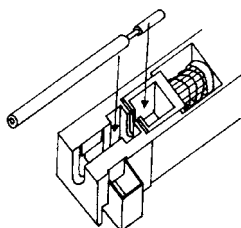
Type A (Snap-in mounting)

Dimension A will be evaluated and defined in trials by SCHURTER based on customer information a, b and c. (See Type R and Type S diagram below.)

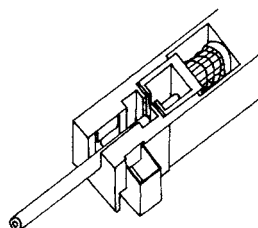


Type B (Screw-on mounting)

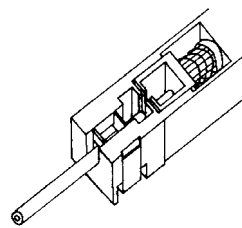
Dimension A will be evaluated and defined in trials by SCHURTER based on customer information a, b and c. (See Type R and Type S diagram below.)

Mounting instructions

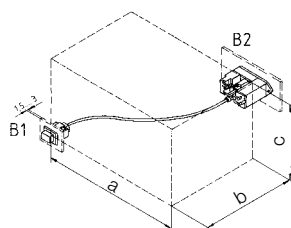
Drop bowden barrel into seat of switch



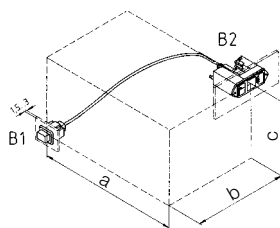
Slide clamp around cable



Bowden cable locked into assembly

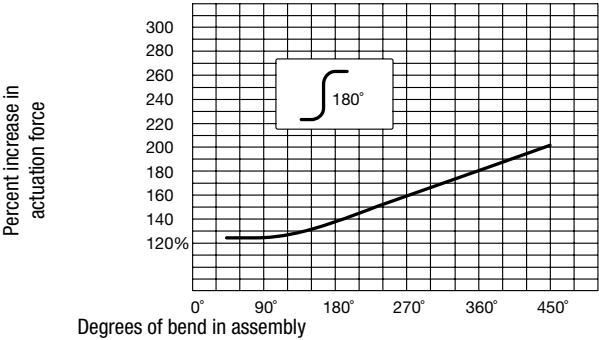


Type R



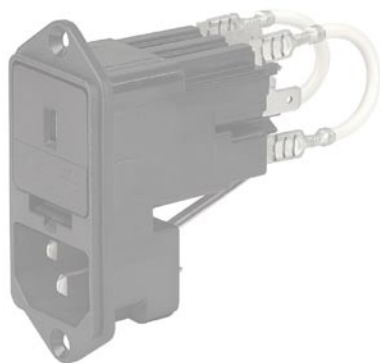
Type S

Derating Curves



Packaging unit 50 Pcs

Connection with Starnded Cable

**Description**

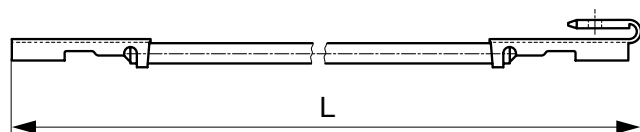
- Wire (braid):
Push-mounted from rear-side
- 1 Function Stranded cable
- Quick connect terminals 4.8 x 0.8 mm
- Fits to type:
- Approved together with power entry module

References

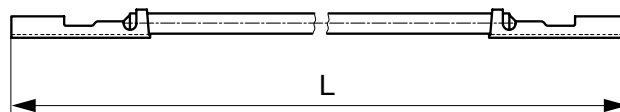
[General Product Information](#)

Weblinks

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

Dimensions

Type A, (Lenght see order table)



Type B (Length see order table)

Packaging unit

100 Pcs

Voltage Selector Insert to KE, CE, KG, CG



To be used with drawer for KE, CE, KG, CG



Description

- Component:
Drop-in type, Switching Unit
- 1 Function:
Voltage selector insert (step switch)
- Up to four different switch positions
- Fits to type: [CE](#); [CG](#); [CG-Bowdencable](#); [KE](#); [KG](#); [KG-Bowdenca-](#)
[ble](#)
- Approved together with power entry module

Other versions on request

- Fuse drawer with other voltage values

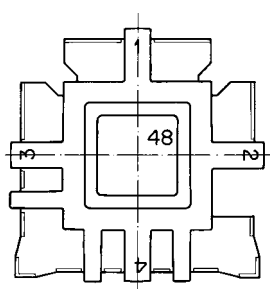
References

[General Product Information](#)

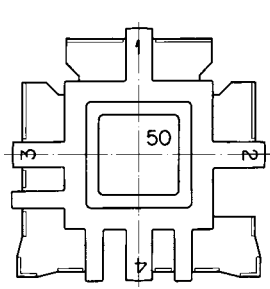
Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distri-](#)
[butor-Stock-Check](#)

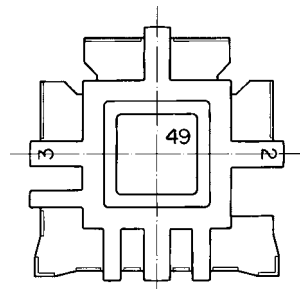
Dimensions



Switch position 1



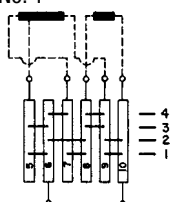
Switch position 2



Switch position 3

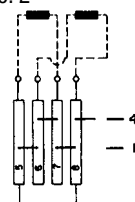
Diagrams

System No. 1



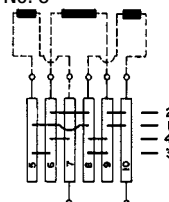
2 separate windings, one with a tap
3 or 4 switch positions

System No. 2



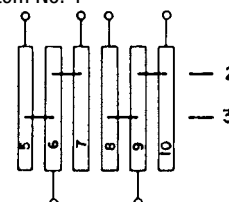
2 separate windings
2 switch positions

System No. 3



3 separate windings
3 or 4 switch positions

System No. 4



2-pole change over switch

Packaging unit

50 Pcs

Product Standard / Definitions / CE-Marking / Conformity	216
National approvals	216
Electrical Protection	217
IEC Connector	218
Industrial Mains Filters	224



general product-information

Product standard equipment standard

The product standard only contains minimum requirements. Attention is drawn to the fact that appliance specifications might contain requirements additional to or deviating from those specified in the relevant product standards.

Comments on definitions used

Please be aware that the specifications nominal value used in the German part of the Schurter catalogue and the data sheets, is synonymous with rated value.
The difference between these two values is a pure matter of definition. In order to avoid any unnecessary complications we will continue to use the specifications nominal value.

CE marking acc. to EU-directives

CE marking is the only marking which indicates that a product conforms to the relevant EU-directive.
This means that the CE-mark is no quality or standard conformity mark but only an administration mark.
SCHURTER products are covered by the low voltage directives 72/23/EEC and 93/68/EEC. Those are valid for equipment and appliances with rated voltage values between AC 50 V to AC 1000 V as well as DC 75 V to DC 1500 V.
The CE marking of SCHURTER parts will be found on the label of the smallest packing unit. On request we will submit a CE conformity statement for each component. CE conformity statements and approvals can also be retrieved from the internet under www.schurter.com.

Conformity to component standards, national approvals

National testing institutions are testing according to national and international standards or other generally recognized rules of technology. Their certification/approval-marks confirm the observance of the safety requirements which electric appliances must fulfil.

National approvals

	(Recognition)	UL	Underwriters Laboratories (USA)
	(Listing)	UL	Underwriters Laboratories (USA, Canada)
	(Recognition)	UL	Underwriters Laboratories (USA, Canada)
	(Listing)	UL	Underwriters Laboratories (USA, Canada)
		CSA	Canadian Standard Association, Component Acceptance Service
		CSA	Canadian Standard Association
		SEV	Schweizerischer Elektrotechnischer Verein
		ASE	Association Suisse des Electriciens
	(Mark)	VDE	Verband Deutscher Elektrotechniker
	(Certificate of conformity with factory surveillance)		
		BSI	British Standard Institute
		SEMKO	Svenska Elektriska Materielkontrollanstalten
		NEMKO	Norges Elektriske Materielkontroll
		DEMKO	Danmarks Elektriske Materielkontroll
		FIMKO	Finnish Electrical Inspectorate
		ÖVE	Österreichischer Verband für Elektrotechnik
		KEMA	Keuring van Elektrotechnische Materialen
		IMQ	Instituto italiano del marchio di qualità
	(Mark)		European Norms Electrical Certification
		CCC	China Compulsory Certification

In addition to the combined UL/CSA approvals, most of the SCHURTER components are also approved by one of the European Certification Bodies like VDE (Germany), Electrosuisse (Switzerland) or SEMKO (Sweden). The safety testing of all these European Certification Bodies are based on the common European Safety Standards. With the harmonisation effort in Europe, the different National European Certification Bodies have lost their importance and SCHURTER has decided to maintain only one European approval (e.g. VDE, SEV or SEMKO) in future. The others will not be renewed once they have expired.

Because UL and CSA are not members of the CENELEC, the standards of UL and CSA are not harmonised yet with the European Standards. However, UL and CSA are trying to harmonize their standards with each other. Where possible, SCHURTER will apply for the combined cULus or cURus approval.

Further to development in Asia, SCHURTER has obtained national approvals from China, Japan and Korea.



general product-information

IP degrees of protection provided by enclosures (IP code)

Standards IEC 60529; EN 60529

Scope

These standards apply to the classification of degrees of protection provided by enclosures for electrical equipment with a rated voltage not exceeding 72.5 kV.

Object

The object of these standards is to give:

- a) Definitions** for degrees of protection provided by enclosures of electrical equipment as regards:
 - 1. Protection of persons against access to hazardous parts inside the enclosure
 - 2. Protection of the equipment inside the enclosure against ingress of solid foreign objects
 - 3. Protection of the equipment inside the enclosure against harmful effects due to the ingress of water.
- b) Designations** for these degrees of protection.
- c) Requirements** for each designation.
- d) Tests** to be performed to verify that the enclosure meets the requirements of these standards.

Designations

The degree of protection provided by an enclosure is indicated by the IP Code.

Elements of the IP Code and their meanings

A brief description of the IP Code elements is given in the following table.

IP xy	Meaning for the protection of equipment	Meaning for the protection of persons
	Against ingress of solid foreign objectif	Against access to hazardous parts with
x = 0	(non-protected)	(non-protected)
x = 1	50 mm diameter	back of hand
x = 2	12.5 mm diameter	finger
x = 3	2.5 mm diameter	tool
x = 4	1.0 mm diameter	wire
x = 5	dust-protected	wire
x = 6	dust-tight	wire
	Against ingress of water with harmful effects	
y = 0	(non protected)	
y = 1	vertically dripping	
y = 2	dripping (15° tilted)	
y = 3	spraying	
y = 4	splashing	
y = 5	jetting	
y = 6	powerful jetting	
y = 7	temporary immersion	
y = 8	continuous immersion	

Protection against electric shock

1. Protection against direct and indirect contact General terms

The protection against electric shock on electric equipment as well as their components are divided into the following parts:

- Protection against direct contact with live parts concerns all measures for the protection of human beings and animals against hazards which result from direct contact with live parts of electric equipment and their components.
- Protection against indirect contact is the protection of human beings and animals against hazards which result from contact of live parts 1 of electric equipment as well as components thereof, which have become live due to an insulation failure.

¹⁾ Accessible, conductive part, which is not conductive normally but which may be conductive due to a failure.

2. Protection against direct contact with live parts e.g. of a fuseholder

The data sheets of the relevant components inform about the taken measures.

3. Protection against indirect contact

Measures for the protection against indirect contact on electrical equipment are defined according to IEC 61140 by the 4 protection classes 0, I, II, III. Each protection class includes two protection measures. Even if one of these measures should fail, no electric shocks will occur.

Protection class	Main protective measures
0	1. Basic insulation between live parts and accessible conductive parts. 2. Earth-free location, non-conducting environment.
I 	1. Basic insulation between live parts and accessible conductive parts. 2. Means are provided for the connection of accessible conductive parts of the equipment to the protective (earthing) conductor in the fixed wiring of the installation in such a way that accessible conductive parts cannot become live in the event of a failure of the basic insulation.
II 	1. Basic insulation between live parts and accessible conductive parts. 2. Additional insulation. Basic and supplementary insulation are summarised under the term "double insulation". Under certain circumstances also a "reinforced insulation" (single insulation system) may guarantee an equivalent protection against electric shock as a "double-insulation" does. No terminal for a protective conductor is allowable. A possibly existing protective conductor must not be connected and has to be insulated like any live part.
III 	1. Functional insulation. 2. Supply at safety extra-low voltage SELV (the circuit is isolated from the mains supply by such means as a safety isolating transformer). The protection against electric shock is in this case completely based on the supplying by SELV-circuits ($U \leq 42$ V). Higher voltages are not generated in the equipment. No terminal for a protective conductor is allowable.



general product-information

IEC connectors

Appliance couplers approved according IEC 60320 are designed as two pole appliance couplers for alternate current with or without protective conductor with a rated voltage of 250 V and a rated current of 16A for technical application that are desired for interconnection to flexible cords of electrical equipment for power supply of 50Hz or 60Hz.

Appliance couplers according mentioned standard are suitable for operation under environmental temperatures of normally 25° C and do not have to exceed 35° C.

Appliance couplers are designed for use without especial moisture protection. So the design of the appliance needs to assure ingress protection if it is designed to be used under these circumstances.

Following figures need to be respected in order to meet standard IEC 60320:

- Rated voltage: 250 VAC
- Rated current according type: 0.2A, 2.5A, 6A, 10A, 16A

The appliance couplers are separated according the maximum operation temperature at the base of the connector pin:

- Pin temperature up to 70°C: Appliance couplers for cold condition
- Pin temperature up to 120°C: Appliance couplers for warm condition
- Pin temperature up to 155°C: Appliance couplers for hot condition

Their outlines are coded in a way, that appliance couplers for hot conditions may also be used under cold conditions, and appliance couplers for very hot conditions may also be used under cold or hot conditions.

The Appliance couplers are separated according the categories of equipment:

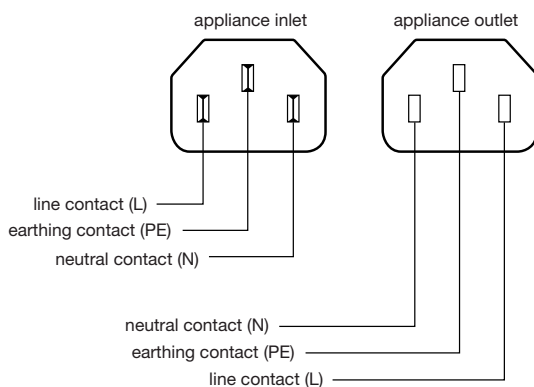
- Appliance couplers for appliances according protection class I
- Appliance couplers for appliances according protection class II
- The protection classes are described in standard IEC 61140

Appliance couplers will be additionally separated according the connection method to a flexible cord:

- Rewireable connectors
- Non-Rewireable connectors

Contact positions

In non-reversible connectors, the contact positions shall be established by looking at the engagement face of the connectors and their disposition shall be as follows:



Definitions

Appliance couplers:

Enabling the connection and disconnection at will, of a flexible cable or cord to an appliance or other equipment. It consists of two parts:

- Connector
- Appliance inlet

Rewireable connector:

are constructed that the flexible cable or cord can be replaced.

Non-rewirable connector:

are constructed to be an integral unit with the flexible cable or cord.

Cord set:

is an assembly consisting of a flexible cable or cord complete with a non-rewirable mains plug and a non-rewirable connector, for connecting an appliance or other equipment with power.

Power interconnection:

is an assembly consisting of a flexible cable or cord with a non-rewirable plug connector and a nonrewirable cord connector, for connecting and disconnecting of any unit or equipment with a power cord to an other unit or equipment.

Customer specific connectors

The SCHURTER power mains plugs, power interconnection plugs, and cord connectors displayed in this catalogue are designed and manufactured in accordance with national and international standards. These standard have been published to create a worldwide understanding about basic dimensions and safety targets of coupler systems. This way a high degree of compatibility of components of different origins has been achieved.

Power mains plugs are designed to the relevant national standards whereas appliance couplers meet the standards as follows: DIN VDE 0625, EN 60320, IEC320 "Appliance couplers for household and similar general purposes, Part 2: interconnection couplers for household and similar equipment".

For different reasons you might consider or be forced to use **a coupler system on your application that does not mate or interchange with standardized couplers**:

- The **applicable standard for your appliance defines a certain coupler system or provides a certain restriction concerning couplers that can be used**. For example IEC335-1 "Safety of household and similar electrical appliances, Part 1: General requirements" states in §24.5:
"Plugs and socket-outlets and other connecting devices on flexible cord, used for an intermediate connection between different parts of an appliance, shall not be interchangeable (...) with connectors and appliance inlets complying with the standard sheets of IEC 60320, if direct supply of these parts from the mains could cause danger to persons or surroundings, or danger to the appliance".
- For marketing reasons it might be desirable to **use a unique and non-interchangeable coupler system for your appliance or appliance family**.

Down-sizing of housing is an aspect that is ever more important for design of new appliances. You might consider a modification of standard or non-standard **coupler systems that perfectly adapts your mounting requirements**. The broad range of SCHURTER's standardized interconnection plugs and connectors is constantly being extended by new variations. When it comes to a special cord end terminations a high number of variations is available.



general product-information

All SCHURTER standard and non-standard coupler systems meet the relevant requirements of product safety proved by multiple approval markings of international testing agencies.

comparison chart metric-AWG wire sizes

AWG	CSA in mm ²	closest stdd. equivalent in mm ²
30	0.0503	0.05
29	0.0646	-
28	0.0804	-
27	0.102	0.1
26	0.128	0.14
25	0.163	-
24	0.205	0.2
23	0.259	0.25
22	0.325	-
21	0.412	-
20	0.519	0.5
19	0.653	-
18	0.823	0.75
17	1.04	1
16	1.31	-
15	1.65	1.5
14	2.08	-
13	2.63	2.5
12	3.13	-
11	4.15	4
10	5.27	-
9	6.62	6
8	8.35	-
7	10.6	10
6	13.3	-
5	16.8	16
4	21.2	-
3	26.7	25
2	33.6	35
1	42.4	-
0	53.4	50
2/0	67.5	70
3/0	85	95
4/0	107.2	120
5/0	135.1	150
6/0	170.3	185

type and min. nominal cross-sectional area for flexible cords or cables

type of connector	types of flexible cords or cable	nominal cross-sectional area (mm ²)
2.5 A for class-I-equipment	60227 IEC 52	0.75
2.5 A for class-II-equipment	60227 IEC 52	0.75*
6 A	60227 IEC 52	0.75
10 A for cold conditions	60227 IEC 53 or 60245 IEC 53	0.75**
10 A for hot conditions	60245 IEC 51 or 60245 IEC 53	0.75**
10A for very hot conditions	60245 IEC 51 or 60245 IEC 53	0.75*
16A for cold conditions	60227 IEC 53 or 60245 IEC 53	1**

* if the flexible cord or cable is not longer than 2 m, a nominal cross-sectional area of 0.5 mm² is admissible.

** if the flexible cord or cable is longer than 2 m, the nominal cross-sectional area for the connectors have to be:

- 1 mm² for connectors 10 A
- 1.5 mm² for connectors 16 A

7.5.6.4

Fuseholders, part of a power entry module

Fusedrawer 1 www.schurter.ch/pdf/english/typ_Fusedrawer_1.pdf

Fusedrawer 2 www.schurter.ch/pdf/english/typ_Fusedrawer_2.pdf

Fusedrawer 3 www.schurter.ch/pdf/english/typ_Fusedrawer_3.pdf

Explanations, thermal requirements, selection criteria

7.5.6.4.1

Protection against electric shock (against direct contact with live parts) for fuseholders

The assessment of the protection against electric shock assumes that the fuseholder is properly assembled, installed and operated as in normal use, e.g. on the front panel of the equipment. IEC 60127-6 and EN 60127-6 divides into three categories:

Cate-gory	Features
PC1	Fuseholders without integral protection against electric shock. They are only suitable for applications where corresponding additional means are provided to protect against electric shock.
PC2	Fuseholders with integral protection against electric shock live part is not accessible: - when the fuseholder is closed - after the fuse carrier (incl. fuse-link) has been removed - either during insertion or removal of the fuse carrier (incl. fuse-link) Compliance is checked by using the standard test finger specified in IEC 60529.
PC3	Fuseholder with enhanced integral protection against electric shock The requirements for this category are the same as those for category PC2, with the exception that the testing is carried



general product-information

Extra-safe handling with SCHURTER power entry modules

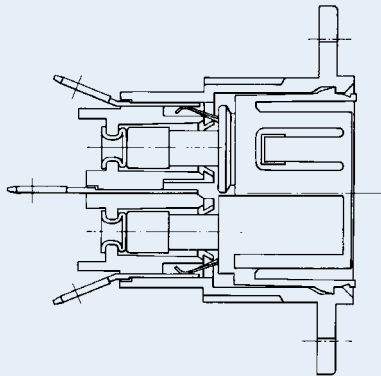
Protection against contact with live parts is an important aspect when dealing with electrical connecting devices. Both your customers and your servicing engineers will appreciate the greatest possible protection against accidental contact with live parts something which can easily happen as a result of inappropriate use, or during servicing or repair work.

In particular, our "shock-safe", "extra-Safe fuse-drawers" and "protective covers" precautions are effective ways of protecting against accidental contact when using the power entry modules.

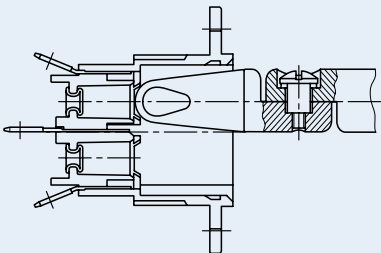
Example:

Power entry module with fuseholder, shocksafe category PC2

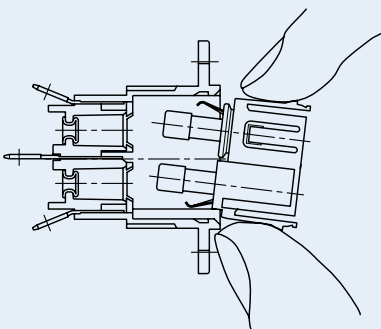
Closed fuseholder and appliance inlet.



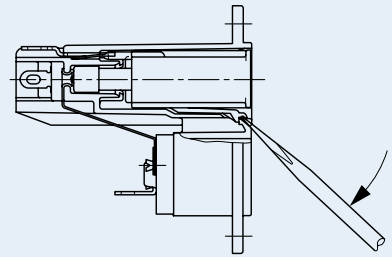
It is not possible to touch any live parts on the SCHURTER fuseholders when the fuse-carrier is extracted.



When a fuse-link 5 x 20 mm or 6,3 x 32 mm (1/4" x 1 1/4") is inserted or replaced, neither the fuse nor the fuse-carrier can come in contact with any live parts.

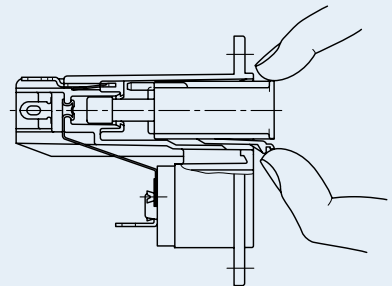


The drawer can only be extracted with the aid of a tool (e.g. screwdriver) so that opening by hand is quite impossible.



With some types it is also necessary to pull out the mains outlet first. Only then can the drawer be removed from the socket.

The drawer can then be removed by hand.



7.5.6.4.2

Thermal requirements of the fuseholder

7.5.6.4.2.1

Influencing factors

The design engineer of electrical equipment is responsible for its safety and functioning to humans, animals and real values. Above all, it is his task to make sure that the state of the art as well as the valid national and international standards and regulations be observed.

In view of the safety of electrical equipment the selection of the most suitable fuseholder is of great importance. Among other parameters, one has to make sure that the maximum admissible power acceptances and temperatures defined by the manufacturer are followed. Differing definitions and requirements in the most important standards for fuse-links and fuseholders are time and again origin for the incorrect selection of fuseholders.

To equate the rated current of a fuse-link with the rated current of the fuseholder, may, especially at higher currents, cause high, not admissible temperatures, when the influence of the power dissipation in the contacts of the fuseholder was not taken into consideration.

The Extra-Safe versions of shock-safe power entry modules are now available.

They are thus also able to satisfy requirements of the following standard: IEC 60601-1 (medical equipments)



general product-information

For a correct selection the following influence factors depending on the application and mounting method, have to be followed:

1. Rated power dissipation of the suitable fuse-link.
2. Admissible power acceptance, operating current and temperatures of the suitable fuseholder.
3. Differing ambient air temperature outside and inside of the equipment.
4. Electrical load alternation
5. Long time (> 500 h) operation with load > 0.7 I_n .
6. Heat dissipation/cooling and ventilation. Heat influence of adjacent components.
7. Length and cross section of the connecting wire.

7.5.6.4.2.2

Rated current of a fuseholder

The value of current assigned by the manufacturer of the fuseholder and to which the rated power acceptance is referred.

7.5.6.4.2.3

Rated power dissipation of the fuse-link

(power dissipation at rated current)

See sep. catalogue "fuses".

7.5.6.4.2.4

Rated power acceptance and admissible temperatures of a fuseholder.

The rated power acceptance of a fuseholder is determined by a standardised testing procedure according to IEC 60127-6. It is intended to be the power dissipation caused by the inserted dummy fuse-link at the rated current of the fuseholder and at an ambient air temperature of $T_{A1} = T_{A2} = 23^\circ\text{C}$ (over a long period). During this test the following temperatures must not be exceeded on the surface of the fuseholder:

Fuseholder surface area	Maximum allowable temperature measuring points	
	(see figure 1)	$^\circ\text{C}$
1. Accessible parts ¹⁾	T_{S1}	85
2. Inaccessible parts ¹⁾ Insulating parts	T_{S2}	2)

NOTES:

1) When the fuse-holder is properly assembled, installed and operated as in normal use, e.g. on the front panel of equipment.

2) The maximum allowable temperature of the used insulating materials corresponds to the Relative Temperature Index (RTI) according to IEC 60216-1 or UL 746 B.

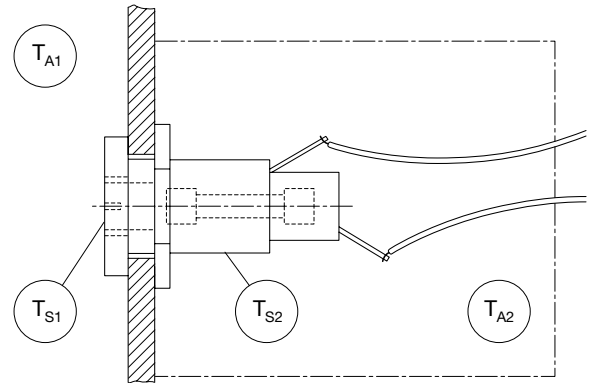


Illustration of temperatures experienced

T_{A1} = ambient air temperature, surrounding the equipment

T_{A2} = ambient air temperature in the equipment

T_{S1} = temperature of accessible parts on fuseholder surface

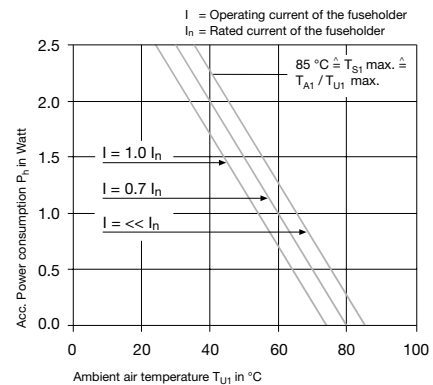
T_{S2} = temperature of inaccessible parts on fuseholder surface

7.5.6.4.2.5

Correlation between operating current I , ambient air temperature T_{A1} and the power acceptance P_h of the fuseholder.

This correlation is demonstrated by derating curves.

Example of a derating curve



I = operating current of the fuseholder
 I_n = rated current of the fuseholder

The derating curves demonstrate the admissible power acceptance of a fuseholder depending on the ambient air temperature T_{A1} for the following fuseholder operating currents: $I < I_n$, $I = 0,7 \cdot I_n$ and $I = 1,0 \cdot I_n$. This power acceptance corresponds to the max. admissible power dissipation of a fuse-link.

A calculation example can be looked up in the technical information for fuses.



general product-information

Technical Data to Line Switches

Line switch used by type	Technical data	
CMF1, CMF2, CMF3, CMF4	Electrical rating acc. to IEC/EN 61058-1	10 (4) A / 250 VAC, 10 000 switch operations 6 (4) A / 250 VAC, 50 000 switch operations Statement in () at inductive load with p. f. 0.6
	Electrical rating acc. to UL 1054	6 A, 125250 VAC, 6000 switch operations (1/4) HP, 125 VAC (1/2) HP, 250 VAC Statement in () at inductive load with p. f. 0.45
	Inrush current acc. to IEC/EN 61058-1	capacitive 70 A, 34 ms continuous current 5 A 10 000 switch operations
	Contact gap	≥3 mm
KM, KMF, PMM, GRM1, GRM2, GRM4	Electrical rating acc. to IEC/EN 61058-1	10 (4) A / 250 VAC, 10 000 switch operations 6 (4) A / 250 VAC, 50 000 switch operations Statement in () at inductive load with p. f. 0.6
	Electrical rating acc. to UL 1054	12 A, 125250 VAC, 6000 switch operations (1/3) HP, 125 VAC (1/2) HP, 250 VAC Statement in () at inductive load with p. f. 0.45 Meets switching current test acc. to UL 1054, TV-3
	Inrush current acc. to IEC/EN 61058-1	capacitive 100 A, 34 ms continuous current 5 A 10 000 switch operations
	Contact gap	≥3 mm
KEB1, KFB1	Electrical rating acc. to DIN/VDE 0630	12 (3) A / 250 VAC, 10 000 switch operations Statement in () at inductive load with p. f. 0.6
	Inrush current acc. to	capacitive 20 A, < 5 ms continuous current 5 A
	IEC/EN 61058-1	10 000 switch operations
	Contact gap	≥3 mm
DC11, DC12, DC21, DC22, DD11, DD12, DD21, DD22	Electrical rating acc. to IEC/EN 61058-1	16 (4) A / 250 VAC, 10 000 switch operations 10 (4) A / 250 VAC, 50 000 switch operations Statement in () at inductive load with p. f. 0.6
	Electrical rating acc. to UL 1054	16 A / 125250 VAC, 6000 switch operations (1) HP 125 VAC / (2) HP 250 VAC Statement in () at inductive load with p. f. 0.45
	Inrush current acc. to IEC/EN 61058-1	capacitive 100 A, 3-4 ms 100 A, 3-4 ms continuous current 5 A
KP (Schalter), KEB2, KFB2, KD, CD, KG, CG, Felcom 54, Felcom 64, FKH, FK1, FKHD, FKID	Electrical rating acc. to IEC/EN 61058-1	12 (4) A / 250 VAC, 10 000 switch operations 8 (8) A / 250 VAC, 50 000 switch operations Statement in () at inductive load with p. f. 0.6
	Electrical rating acc. to UL 1054	15 A, 125250 VAC, 6000 switch operations (3/4) HP, 125 VAC (1 1/2) HP, 250 VAC Statement in () at inductive load with p. f. 0.45 Meets switching current test acc. to UL 1054, TV-3
	Inrush current acc. to IEC/EN 61058-1	capacitive 70 A, 34 ms continuous current 5 A 10 000 switch operations
	Contact gap	≥3 mm
KD Bowden cable, CD Bowden cable, KG Bowden cable, CG Bowden cable	Electrical rating acc. to IEC/EN 61058-1	6 (4) A / 250 VAC, 10 000 switch operations Statement in () at inductive load with p. f. 0.6
	Electrical rating acc. to UL 1054	6 A, 250 VAC, 10 000 switch operations 8 A, 125 VAC, 10 000 switch operations
	Inrush current acc. to IEC/EN 61058-1	capacitive 36 A, < 5 ms continuous current 6 A 6000 switch operations
	Contact gap	≥3 mm
EC11, EC12	Electrical rating acc. to IEC/EN 61058-1	16 (4) A / 250 VAC, 10 000 switch operations 10 (4) A / 250 VAC, 50 000 switch operations



general product-information

Line switch used by type	Technical data
	Statement in () at inductive load with p. f. 0.6
Electrical rating acc. to UL 1054	20 A, 125/250 VAC, 6000 switch operations (1) HP, 125 VAC (2) HP, 250 VAC
	Statement in () at inductive load with p. f. 0.45
Inrush current acc. to IEC/EN 61058-1	Meets switching current test acc. to UL 1054, TV-3 capacitive 100 A, 34 ms continuous current 5 A 10 000 switch operations
Contact gap	≥3 mm



general product-information

Industrial mains filters

Frequency range 0.01 MHz ... 1000 MHz

General Information

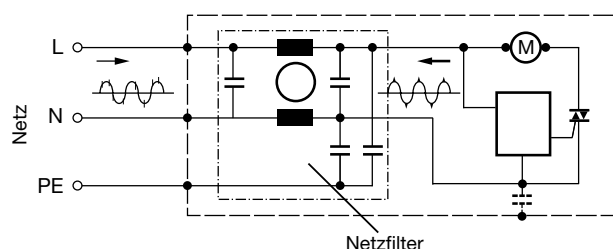
Electromagnetic Compatibility (EMC) is the capability of electrical equipment (installations, devices, assemblies) to operate effectively in its electromagnetic environment (Immunity), without in turn irresponsibly affecting this environment (Emission).

Mains filters of various types are used for the protection of electronic circuits, components and equipment against transients or similar interference, on the mains power supply. A suitable filter can be selected from the existing product range for each equipment type in accordance with electromagnetic conditions of its environment.

Mains interference can be classified into four categories:

- A) Fluctuations in the industrial mains supply
(magnetic voltage stabilizer)
- B) Harmonic wave interference in the frequency range 100 Hz ... 2 kHz
(filter type selective harmonic)
- C) Transient interference signals in the frequency range up to 300 MHz (filter type low-pass)
- D) Sinusoidal interference signals in the frequency range up to 1 GHz (filter type broad band, low-pass)

In practice, however, interference is mainly found in the last three categories B, C and D. Superimposed on the high-voltage mains supply, such interference can affect the performance of electronic circuits, or even cause them damage. An optimally-designed mains filter can perform a double function:



Function 1

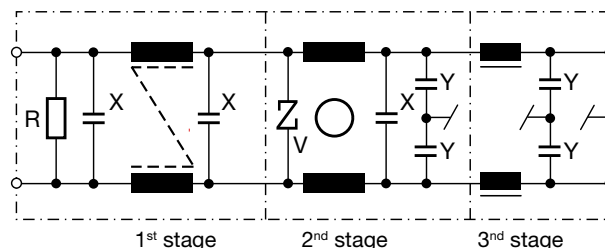
The filter protects an electronic control circuit from voltage spikes in the mains supply, which may be generated, for example, by electro-mechanical switches and relays.

Function 2

The same filter also acts simultaneously in the opposite direction. The HF interference generated in the unit by thyristor control is attenuated such that the boundary values Class B, (EN 55011/55022) are maintained.

Filters are usually made up of capacitors and inductance coils. Components such as leakage resistors, surge dissipators and VHF chokes can also be integrated into the filter. Broad band filters which meet the highest requirements are often composed of 2 or 3 single stages put together to make one filter unit:

3-stage filter



1st stage

A differential mode acting filter with high energy absorption. Discharging resistors are normally used for Cx capacitors > 100 nF. The capacitors are tested and approved as so-called Class X noise suppression capacitors. The 1st stage serves as di/dt limitation.

2nd stage

A common mode acting filter with a high, broad band attenuation ratio. A ZNR varistor surge serves as the overvoltage suppression component. The earthed capacitors are tested and approved as so-called Class Y noise suppression capacitors.

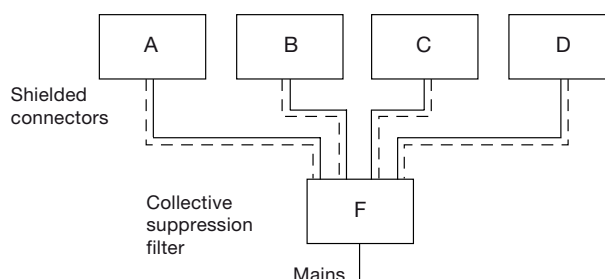
3rd stage

Common mode as well as differential mode acting filter in the HF range up to 300 MHz. Feedthrough capacitors make high attenuation values possible up to the gigahertz range. These capacitors are also Class Y type. SCHURTER uses only approved noise suppression capacitors according to EN 132400.

Filter Assemblies

Three types of mains noise suppression filter assemblies are used in practice:

Collective Suppressor

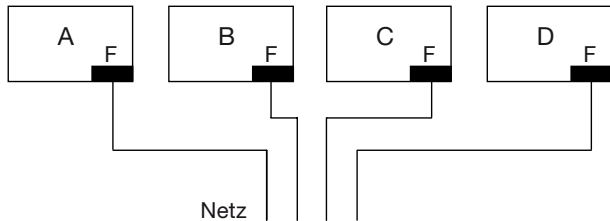


The collective suppressor principle results in one filter per plant. This has to cope with the entire power input. In addition, all of the connecting cables have to be shielded. Furthermore interference generated by «A» device can reach other devices for instance «B» or «C» through the connecting cables. The following example promises to be a more economical solution. In many cases, the single suppressor principle is



the most economical solution.

Single Suppressors



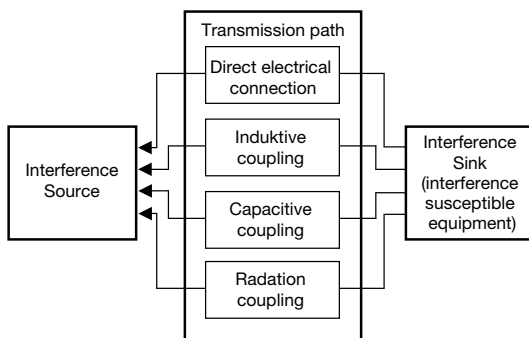
Combined Single and Collective Suppressor

From the technical point of view, only the combined application of both suppression techniques can result in a significant improvement.

Interference Propagation

In the field of interference and RF suppression, the most significant means of transmission is the direct electrical connection, i.e. the connecting wiring. The radiation coupling is also important from the electromagnetic compatibility (EMC) point of view; it cannot, however, be dealt with here.

Interference Propagation



Propagation and Coupling Paths

The capacitive and inductive coupling effects occur inside the case. These could be:

- Capacitive coupling through the coupling capacity of a mains transformer.
- Inductive coupling through control system wiring in parallel.

The introduction briefly mentioned the possibility of the mains filter operating with a double function. Depending on the main area of application, these filters are designated as either RF SUPPRESSION FILTERS or INTERFERENCE SUPPRESSION FILTERS.

The one filter may, therefore, appear under two references in the documentation. A filter is also classified by its mechanical design as well as its electrical data.

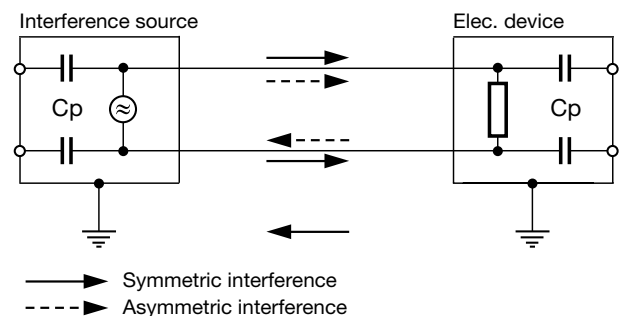
RF SUPPRESSION FILTERS impede the propagation of RF interference, generated by an electronic or electrical device into the mains. They also ensure an interference-free radio reception in the immediate vicinity.

INTERFERENCE SUPPRESSION FILTERS prevent mains interference from affecting electronic equipment. They enable an interference-free operation even in the case of a power supply badly affected by mains interference.

It is common to operate the mains filter in both directions in the one piece of equipment, allowing it to fulfil its double function as both interference and RF suppression filters as specified.

Common- and differential Mode Interference

Filter engineering differentiates between common and differential mode interference originating from supply lines.



In the case of a non-earthed interference source, interference at first only propagates along the connecting lines. Like the mains AC current, the parasitic current flows to the user on one lead, and returns to the interference source on the other. Both these currents are in differential mode. This type of interference is therefore referred to as differential mode interference.

Due to the mechanical configuration and its parasitic capacitance, parasitic currents are also generated in the earthing circuit. This parasitic current flows on both connecting leads to the user and over an earthed lead back to the interference source. Both currents on the connecting lead are in common mode. This type of interference is therefore referred to as common mode interference.

RF Suppression Chokes Conforming to IEC60938

All SCHURTER filters are fitted with chokes which satisfy the guidelines set down by international and national standards organizations.

The most important test data for RF suppression chokes are:

Maximum variation of inductance:	30% / +50% for compensated 15% / +15% for linear and storage
Test frequency	1MHz $\pm$ 20% at $L < 10 \mu\text{H}$ 100kHz $\pm$ 20% at $10 \mu\text{H} < L < 1 \text{ mH}$ 10kHz $\pm$ 20% at $1 \text{ mH} < L < 50 \text{ mH}$ 50 to 120 Hz $\pm$ 20% at $L > 50 \text{ mH}$
Test current:	0.1 mA
Test temperature:	25°C $\pm$ 3°C
Insulation resistance R_{is} :	6000 MOhm



general product-information

Test voltages

Chokes for	Between connections	Inner and outer insulation
AC	$4.3 U_R$ VDC	$2 U_R + 1500$ VAC, but at least 2000 VAC
DC	$3 U_R$ VDC	$2 U_R + 1500$ VDC

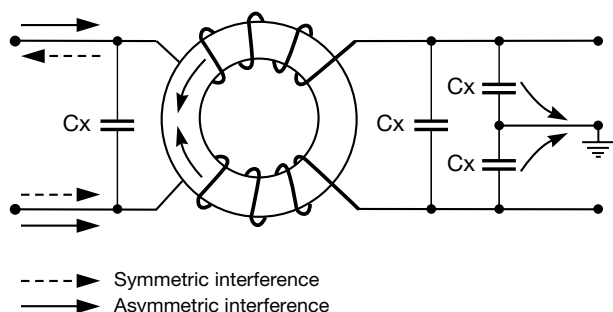
Temperature rise at nominal current: $\Delta T = 60^\circ\text{C}$

Short-circuit strength:

EN and VDE: not applicable

SEV→: $25 \times I_N$ (2 half-waves)

Current Compensated Chokes in Interference Suppression Filters



The main type of choke used in suppression filter engineering is the current compensated choke. This mainly damps the common mode interference. The differential mode parasitic current, or rather the magnetic flux they produce in the core, is compensated by means of a special type of winding. The relatively small attenuation of the differential mode parasitic currents can be balanced through the large, symmetrically connected capacitance C_x between the lines. Only the leakage inductance L_s of the choke is then of any importance.

$$L_{\text{leakage}} \approx \frac{L_{\text{nominal}}}{50} \quad \text{to} \quad \frac{L_{\text{nominal}}}{100}$$

The high nominal inductance L_N active for common mode parasitic currents allows the insertion of small, earthed capacitances C_Y in a filter circuit. These capacitances are regulated by international standards for leakage currents.

RF Suppression Capacitors:

General Information

All SCHURTER filters are fitted with Class X or Y RF suppression capacitors in accordance with international standards (IEC, EN). These are mainly self-healing metallized paper or polyester types, tested against the standards of major countries around the world and approved as noise suppression capacitors. Class X capacitors are capacitors with unlimited capacity for those applications in which a failure caused by a short circuit cannot result in a dangerous electrical shock. Class Y capacitors are capacitors intended for an operating voltage $V_{\text{eff}} = 250$ V with increased electrical and mechanical safety and limited capacitance.

RF Suppression Capacitor Complying with IEC 60384-14

All SCHURTER filters are equipped with components which have been tested and approved as R_F suppression capacitors.

The most important test data for R_F suppression capacitors are:

Capacitance C_x , $C_y \pm 20\%$ for $f_M = 1$ kHz

Insulation resistance R_{is} between the capacitor terminals:

for $C > 0.33 \mu\text{F}$: $R_{is} \times C > 2000$ s (time constant)

for $C \leq 0.33 \mu\text{F}$: $R_{is} > 6000$ MOhm

Major voltage test and standards for C_x and C_y capacitors

Country	Standard	C	Rigidity	Pulse Test 1.2/50 μs
Europe	EN 132400	X1	4.3 UR VAC	4.0 kV
		X2	4.3 UR VAC	2.5 kV
		Y1	4.0 kVAC	8.0 kV
		Y2	2.5 kVAC	5.0 kV
	IEC 60950 (Equipment Standard)	X1	$2700 V_{DC}$, 60s	4.0 kV
		X2	$2121 V_{DC}$, 60s	2.5 kV
USA	UL 1414		$2121 V_{DC}$, 60s	50 Pulse, 10 kV, 1000 W
	UL 1283		$2121 V_{DC}$, 60s $2545 V_{DC}$, 1s	-
Switzerland	SEV 1055	x	4.3 UR VAC	3.0 kV
		y	$2(100 + 2 UR)$ min. 2250 VAC	5.0 kV

X2Y® - filter:

X2Y® filter combines the X and Y capacitors into a component that is in contact with the filter enclosure over a broad surface. The leads connecting the capacitors are thereby eliminated and parasitic impedances are reduced to a minimum. This results in broadband suppression into high frequency ranges.

General notes

a) Leakage current according to IEC 60335-1

The leakage current of a device is mainly determined by the capacity value of the Y-capacitor. According to international standards (IEC 60335-1) the following regulations with respect to leakage current can be assumed:

Type of appliance	Pro- tection class	I_L max. (mA)	U(V)	f(Hz)
Portable appliances	I	0.75	250	50
Stationary motor appliances *	I	3.5	250	50
Stationary heating appliances	I	0.75/kW (max. 5.0)	250	50
Appliances	II	0.25	250	50
Appliances	I, 0I, III	0.5	250	50

* Stationary appliances fixed or weighing in excess of 18 kg (without carrying handle).

For other applications:

Ref.	Laboratory	Medical	IT	Test equipment
UL	0.5 mA (UL 1262)	0.1 mA (UL 544)	3.5 mA (UL 1950)	5.0 mA (UL 1244)
IEC		0.1 mA (IEC 60601-1)	3.5 mA (IEC 60950)	3.5 mA (IEC 61010-1)

Filter classification



general product-information

For easy reading of the catalogue data, SCHURTER uses the following simplified filter classification:

Differential Mode and Common Mode Attenuation

Attenuation value			
Standard	Medium	High	Excellent
20-50 dB	40-70 dB	60-80 dB	70-95 dB

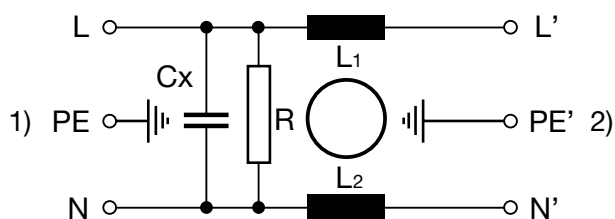
Leakage Current Classification

Operating leakage current			
Medical	Standard	Industrial	Other
<0.1 mA	<0.5 mA	<5 mA	>5 mA

Medical filter

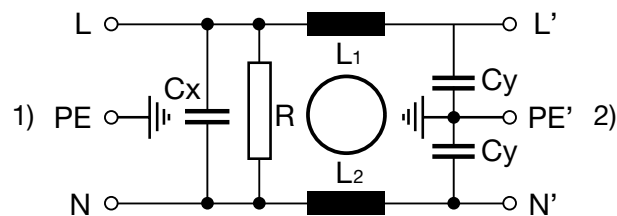
SCHURTER medical filters comply with UL544 and IEC 60601-1 standard specifications and are available in two versions, which differ in terms of their leakage current values.

Medical filter (M5)



- 1) Line
2) Load

Medical filter (M80)



- 1) Line
2) Load

Standard medical filters for direct person contact supplied by SCHURTER have a leakage current value of <5 µA (M5). This can only be achieved without C_Y . Here, a common mode fault current against earth is not attenuated and the filter acts only on differential mode fault currents. In addition, an inlet in protection class II can be used here, as no earth connection exists. However, if an earth connection is desired, Type (M80) can be used for indirect person contact; this has a leakage current of <80 µA which is below the required limit value of 0.1 mA. Type (M80) is manufactured to special order.

Bleed resistor

Medical filters and filters with a X-capacitor >100 nF have a bleed resistor so that no inadmissible rest voltage occurs at the touchable pins of the inlet.

EMC requirements in Europe

Household, Luminaries and Telecommunication

Residential, commercial and light industrial

Emission

IEC 61000-6-3 (EN 50081-1)

EN 55022 ITE Information technology equipment
EN 55014 Household Applications and Tools

Harmonic (IEC 61000-3-2)
Voltage fluctuations (IEC 61000-3-3)

Immunity

IEC 61000-6-1 (EN 50082-1)

IEC 61000-4-2 ESD
IEC 61000-4-3 HF-Field
IEC 61000-4-4 Burst
IEC 61000-4-5 Surge

Class Industrial

(ISM) Industrial, Scientific and Medical

Emission

IEC 61000-6-4(EN 50081-2)

EN 55011
Harmonics (IEC 61000-3-2)
Voltage fluctuation (IEC 61000-3-3)

Immunity

IEC 61000-6-2 (EN 50082-2)

IEC 61000-4-2 ESD
IEC 61000-4-3 Inducted HF-Field (enclosure)
IEC 61000-4-6 Inducted HF-Field (lines)
IEC 61000-4-4 Burst
IEC 61000-4-5 Surge
IEC 61000-4-8 NF Magnetic Field (only for magnetic devices)

Electrical Safety Regulations

The most important safety standards for equipment/installations are listed in the following:

- IEC 60950** Safety of Information Technology Equipment including Electrical Business Equipment
IEC 60335 Safety of Household and similar Electrical Appliances
IEC 61010-1 Safety requirements for Electronic Measuring Apparatus
IEC 60601 Safety requirements for Electro-medical Equipment

UL 1950

Safety requirements for Information Technology Equipment

UL 544

Electric Medical and Dental Equipment

Interference Emissions

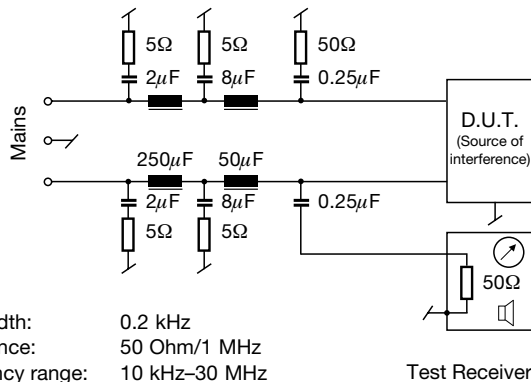
There are basically 2 types of emitted disturbances: conducted and radiated. Line interferences are high frequency noise signals which



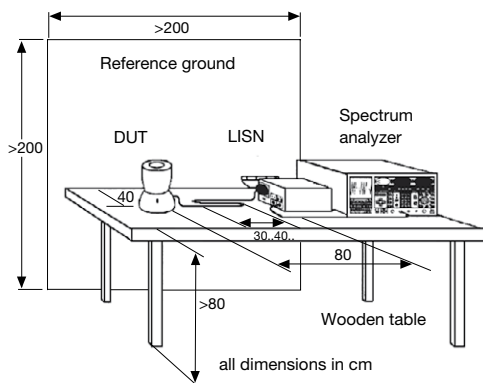
general product-information

are superimposed on the useful signals on input and output lines. Interference signals can be of common- or differential mode type. The significance of line interference is reduced dramatically above a frequency of 30 MHz. From here radiated interference increases greatly. On the following pages we will nevertheless deal with conducted interference only.

Measuring Technique CISPR 3



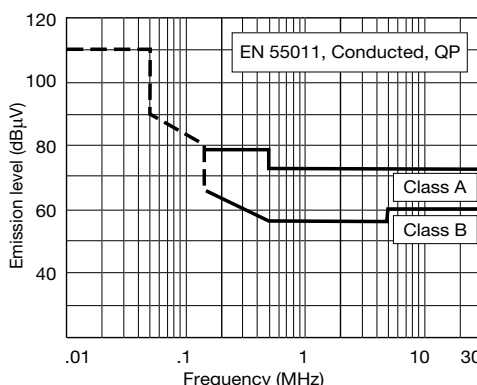
Radio Frequency Interference Boundary Values



RFI testing station

EN 55011: Boundary values and measuring systems for RF suppression for industrial, scientific and medical high frequency equipment (ISM), 1991 (see also CISPR 11 or VDE 0871)

Boundary values complying with EN 55011



Quasipeak (QP) and Average (AV) are two limits, neither of which must be exceeded and which are measured by two different test receivers.

The test arrangement remains the same. These boundary values replace the boundary values given by the old standards for broadband and narrowband noise generators.

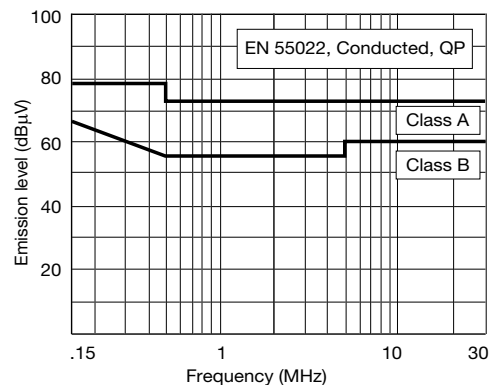
Boundary values are divided into Class A and B.

Into Class A fall those devices which should not be operated in residential buildings and should not be connected to power supplies which also supply these areas. Class A boundary values shall not be exceeded.

Into Class B fall devices for which above restrictions do not apply. Class B boundary values shall not be exceeded.

EN 55022: Boundary values and measuring systems for RF suppression for information technology installations (Telecommunications) 1987 (see also CISPR 22 or VDE 0878).

Boundary values complying with EN 55022



Into Class A fall all units which should be used in a commercial environment and should be used with a safety distance of 30 m to other units.

Into Class B fall all units which have no restrictions on their use.

EN 55013: Boundary value and measuring techniques for RF suppression characteristics of radio receivers and connected applications.

EN 55014: Boundary values and measuring systems for RF suppression for electrical household appliances, handheld electrical tools and similar electrical products, 1993 (see also CISPR 14).

EN 55015: Boundary values and measuring systems for RF suppression for fluorescent lamps and lighting, 1993 (see also CISPR 13).

Harmonics

(EN 61000-3-2, IEC 61000-3-2)

Current harmonics represent a distortion of the normal sine wave provided by the utility. When a product such as an SCR switched load or a switching power supply distorts the current, harmonics at multiples of the power line frequency are generated. Two significant consequences arise as a result of harmonic generation. First, because of finite impedances of power lines, voltage variations are generated that other equipment on the line must tolerate. Second, when generated in a three-phase system, harmonics may cause overheating of neutral lines.

Power line harmonics are generated when a load draws a non linear current from a sinusoidal voltage. The harmonic component is an element of a Fourier series which can be used to define any periodic waveshape. The harmonic order or number is the integral number defined by the ratio of the frequency of the harmonic to the fundamental frequency (e.g., 150 Hz is the third harmonic of 50 Hz; $n = 150/50$).



After multiple postponement finishes at 1.1. 2001 the transition-period for the EN 61000-3-2, frequently called "PFC-Norm". It applies to all electrical and electronic devices with input current up to max. 16 A per phase, which are designed to connect to the general lowvoltage mains. Limits are set only for 220/380 V, 230/400 V and 240/415 V at 50 Hz.

This standard distinguishes four classes of equipment.

Class	Equipment
A	Simmetric three phase equipment and all other equipment not in other classes
B	Portable tools
C	Lighting equipment
D	Equipment having special Waveshape (see EN 61000-3-2, paragraph 4 picture 1)

A harmonics test to conform to the standards must include an analysis of the incoming current up to the 40th harmonic (for $f_N = 50$ Hz, $f_H = 2$ kHz).

The IEC 61642 "Industrial a.c. networks affected by harmonics- Application of filters and shunt capacitors" give guidance for the use of passive a.c. harmonic filters and shunt capacitors for the limitation of harmonics and power factor correction intended to be used in industrial applications, at low and high voltages.

Voltage Fluctuations (Flicker)

(EN61000-3-3, IEC 61000-3-3, IEC 61000-3-5)

The appearance of flicker effects and voltage fluctuations on the mains supply is caused by varying loads connected to the mains. The most critical are the effects of voltage fluctuations on equipment such as lights and illumination. Here the light output and thereby the intensity is an exponential function of the supplied voltage. This fluctuation in light intensity is called flicker. Many people experience dizziness and headaches as a result.

There are various limit values depending on the type of voltage fluctuation (square, sinusoidal and mixed or erratic voltage fluctuation).

Flickers are measured by so-called flicker meters (arranged in compliance with EN 60808).

Immunity

ESD (Electrostatic Discharge)

(EN 61000-4-2, IEC 61000-4-2)

One of the main interference sources, along with switching through radio interference, is electrostatic discharge from people and equipment.

Guideline for the selection of ESD test levels

Class	Relative ambient humidity as low as [%]	Antistatic material (floor)	Synthetic material (floor)	Level air discharge (kV)	Level contact discharge (kV)
Class 1	35	x		2.00	2.00
Class 2	10	x		4.00	4.00
Class 3	50		x	8.00	6.00
Class 4	10		x	15.00	8.00

Recommended test levels for Fast Transient/Burst (acc. IEC 61000-4-4)

Test levels	The installation is characterized by following attributes	Voltage peak: [kV]	Repetition rate [kHz]
		Power supply	Signal ports

Burst

(EN 61000-4-4, IEC 61000-4-4)

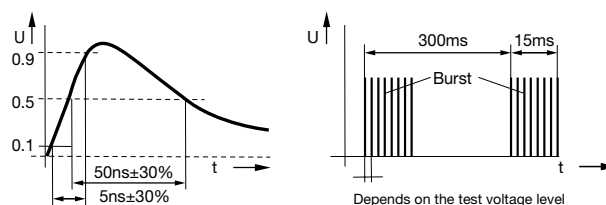
One of the most common and most dangerous sources of interference are transient disturbances such as those originating from switching transients (interruption of inductive loads, relay contact bounce, etc.). The burst test measures the resistance of the device to repetitive fast transients.

Surge

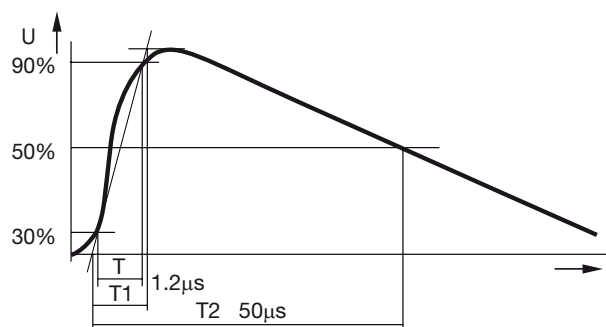
(EN 61000-4-5, IEC 61000-4-5)

This test procedure measures the behaviour of a device when subjected to high-energy pulses. Sources of such pulses are switching events due to lightning strikes, short-circuits, or switching cycles which vary in time and place. Surge test on SCHURTER filters are according to EN 133200.

Specification of the Burst test impulse



Surge voltage form in open circuit





general product-information

Recommended test levels for Fast Transient/Burst (acc. IEC 61000-4-4)

Level 1 Well-protected environment	Suppression of all EFT/B* in the switched power supply circuits Separation between power supply lines and control and measurement circuits Shielded power supply cables with the screens earthed at both ends	0.50	0.25	5.0
Level 2 Protected environment	Partial suppression of EFT/B* in the power supply and control circuits Separation of all the circuits from other circuits associated with environments of higher severity levels Physical separation of unshielded power supply and control cable from signal and communication cables	1.00	0.50	5.0
Level 3 Typical industrial environment	No suppression of EFT/B* in the power supply and control circuits Poor separation of the industrial circuits from other circuits Dedicated cables for power supply, control, signal and communication lines Poor separation between power supply, control, signal and communication cables	2.00	1.00	5.0
Level 4 Severe industrial environment	No Suppression of EFT/B* in the power supply and control and power circuits No separation between power supply, control, signal and communication cables Use of multicore cables in common for control and signal lines	4.00	2.00	2.5

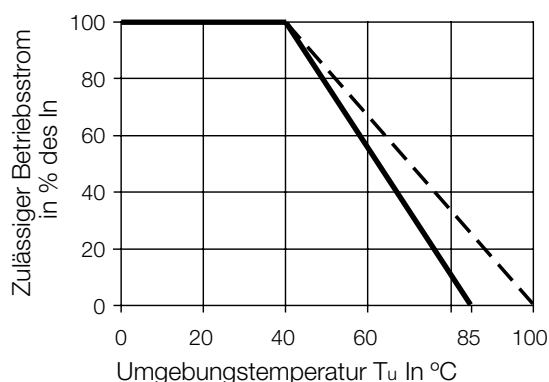
*EFT/B: Electrical Fast Transient/Burst

Installation classification for Surge Immunity test (acc. IEC 61000-4-5)

Class	Environment definition	Voltage peak [kV]	
		L → N [2kV]	L/N → PE [12kHz]
Class 0 well-protected environment	- All cables with overvoltage protection - Well-designed earthing system - Surge voltage may not exceed 25 V	-	-
Class 1 Partly protected environment	- All cables with overvoltage protection, well interconnected earth line network - Power supply completely separated from the other equipment - Surge voltage may not exceed 500 V	-	0.50
Class 2	- Separate earth line to earthing system - The power supply is separated from other circuits - Non-protected circuits are in the installation, but well separated and in restricted numbers - Surge voltage may not exceed 1000 V	0.50	1.00
Class 3	- The installation is earthed to the common earthing system - Protected electronic equipment and less sensitive electric equipment on the same power supply network - Unsuppressed inductive loads are in the installation	1.00	2.00
Class 4	- The installation is connected to the earthing system for the power installation - Current in the kA range due to earth faults - The power supply network can be the same for both the electronic and the electrical equipment - Surge voltages may not exceed 2000 V	2.00	4.00
Class 5	- Electrical environment for electronic equipment connected to telecommunication cables - The interference voltages can be extremely high - All cables and lines are provided with overvoltage protection	dep. on the local power supply network	dep. on the local power supply network dep. on the local power supply network

Permissible Working Current as a Function of Ambient Temperature Up to the approved nominal ambient temperature a the filter can be operated continuously at its nominal current. Above this temperature the square of the nominal current drops off linearly and reaches its zero point at Tmax (85 or 100 °C).

Derating curve (approx.)



Formula:

$$I = I_n \sqrt{\frac{T_{\max} - T_a}{T_{\max} - T_n}}$$

I = admissible operating current at elevated ambient air temperature

I_n = rated current

$T_{\max}$ = max. allowable ambient air temperature T_a (85 °C)

T_a = ambient air temperature

T_n = allowable ambient air temperature at rated current (40 °C)

Leakage Current

(see also Chapter 1.6 RF Suppression Capacitors: General information)

1-Phase measuring Techniques

Measurement of the leakage current (simplified).

The leakage current is measured from every pole of the network:

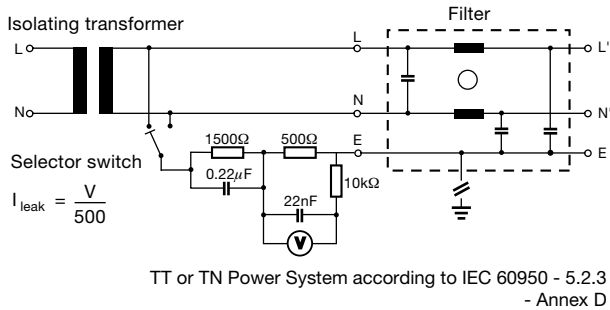
- to all accessible metal parts

- to metal parts of protection class II equipment which is separated only by the base material from parts under voltage.



general product-information

The test is made with AC at 250 V / 50 Hz.
Measurements are made in both switch positions (see diagram).

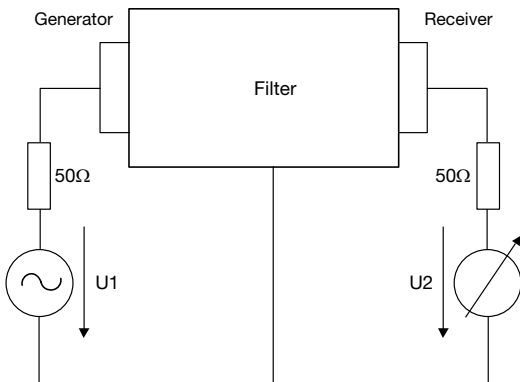


Protection Class I:

Devices are fitted with a special grounding conductor to provide protection against electrical shocks (L,N,PE wire cable). SCHURTER filters correspond to Protection Class I.

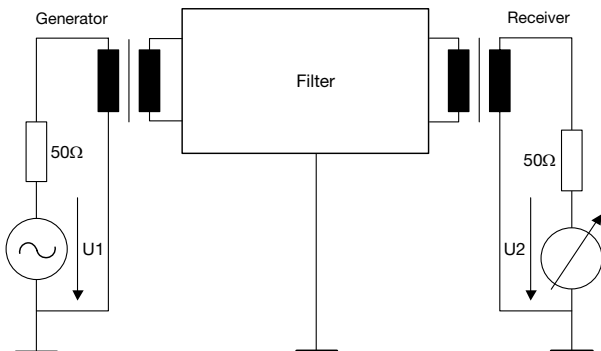
Insertion loss acc. CISPR 17 (common- and differential mode)

Asymmetrical measurement



In common mode measurements, the line and neutral conductors are measured with respect to earth.
Line (L) and neutral (N) are measured to earth (E).

Symmetrical measurement



In differential mode measurements, the insertion transmission loss is measured between line and neutral through a balancing transformer; the earth wire is not used.
4-pole network with integrated balancing transformer for the measurement of insertion transmission loss in the symmetric case.

Measurement Method

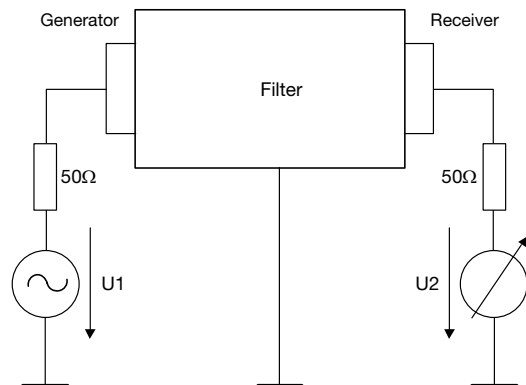
The insertion loss D is defined as that loss which results when a four-pole network is inserted into an existing layout, having a surge impedance Z, assuming that the LHS and the RHS terminal impedances of the four-pole network are equal in magnitude and real, the insertion transmission loss and the overall loss are the same.

The insertion transmission loss, in decibels, can be obtained as follows:

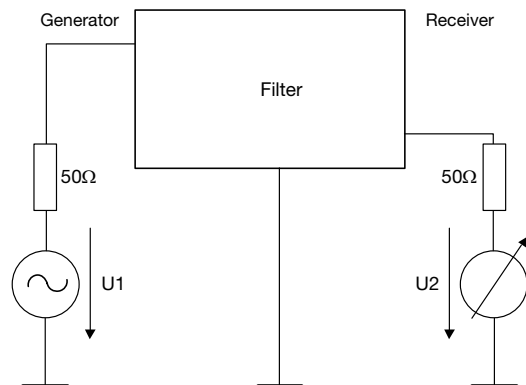
$$D_{dB} = \frac{20 \log (U_{G_1})}{2 U_2}$$

Insertion loss "Alternate Test Method"

Asymmetrical measurement



Symmetrical measurement



The Alternate Test Method allows the measurement in the GHz frequency range whereas the CISPR 17 method does not cover frequencies above 30MHz. The insertion loss is measured in a throughput method (common mode) and a cross coupled method (differential mode). The differential mode measurement of the alternate test method is not directly comparable to the conventional measurement acc. CISPR 17.

In compliance to the known standards of the IEC, EN, VDE and UL, the filters are tested as follows. In principle, these tests correspond to those of the RF suppression capacitors.



general product-information

Test duration

- 2 sec for production test
- 60 sec for types test

The SCHURTER final production test has a duration of 2 sec. This test may not be repeated more than one time (i.e. incoming inspection at the customer). Any filter that has been under test for 60 sec can not be commercially used (reduced life cycle).

Web Reference or Type	Product group	page
1		
1060	■ Appliance Inlet	115
1060	■ Appliance Inlet	115
1062	■ Appliance Inlet	109
1062	■ Appliance Inlet	109
1062-B	■ Appliance Inlet	111
1062-B	■ Appliance Inlet	111
1064	■ Appliance Inlet	119
1064	■ Appliance Inlet	119
1065	■ Appliance Inlet	117
1065	■ Appliance Inlet	117
1066	■ Appliance Inlet	113
1066	■ Appliance Inlet	113
1067	■ Appliance Inlet	139
1067	■ Appliance Inlet	139
1074	■ Appliance Inlet	41
1074	■ Appliance Inlet	41
1092	■ Appliance Inlet	121
1092	■ Appliance Inlet	121
1092	■ Appliance Inlet	121
1092	■ Appliance Inlet	121
1624-K	■ Appliance Inlet	154
1624-K	■ Appliance Inlet	154
2		
2565-K	■ Appliance Inlet	29
2565-K	■ Appliance Inlet	29
4		
4707	■ Appliance Inlet	123
4707	■ Appliance Inlet	123
4719	■ Appliance Inlet	129
4719	■ Appliance Inlet	129
6		
6010-K	■ Appliance Inlet	43
6010-K	■ Appliance Inlet	43
6050	■ Appliance Inlet	79
6050	■ Appliance Inlet	79
6145	■ Appliance Inlet	57
6145	■ Appliance Inlet	57
6200	■ Appliance Inlet	97
6200	■ Appliance Inlet	97
6202	■ Appliance Inlet	100
6202	■ Appliance Inlet	100
6205	■ Appliance Inlet	103
6205	■ Appliance Inlet	103
6220	■ Appliance Inlet	106
6220	■ Appliance Inlet	106
6250 / 6255	■ Appliance Inlet	76
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