IEC Appliance Inlet C14 with Filter, Line Switch 1- or 2-pole, Front or Rear Side Mounting

Standard- or Medical-Filter

new

Screw-On Version
from front side

from front side

Screw-On Version
from rear side

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, Line Switch 1- or 2-pole, Line filter in standard and medical version
- Quick connect terminals 6.3 x 0.8 mm
- Alternative: version without line filter DC11
- Substitute for type KFB1; KFB2

Approvals

- VDE Certificate Number: 40001522
- UL File Number: E72928

Characteristics

- Compact design with optimal shielding
  Rear side mounting for efficient costsaving assembly
- All single elements are already wired
- Line switch non-illuminated or illuminated
  Marquard switch for high inrush currents
- Universal line filter for standard applications
- Ideal for application with high transient loads
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Solder terminals
- Other rocker marking
- Capacitance CX1

References

General Product Information

Weblinks

Approvals, RoHS, CHINA-RoHS, Mating Connectors, Distributor-Stock-Check, Accessories

Technical Data

Ratings IEC	1 - 10 A @ Ta 40 °C / 250 VAC; 50 Hz
Ratings UL/CSA	1 - 10 A @ Ta 40 °C / 125 VAC; 60 Hz
Leakage Current	standard < 0.5 mA (250 V / 60 Hz) medical < 5 µA (250 V / 60 Hz)
Dielectric Strength	> 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec)
Allowable Operation Temp.	-25 °C to 85 °C
Climatic Category	25/085/21 acc. to IEC 60068-1
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class 1 acc. to IEC 61140
Terminal	Quick connect terminals 6.3 x 0.8 mm
Panel Thickness s	Screw: max 8 mm Mounting screw torque max 0.5 Nm Snap-in: 1 mm to 3 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	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 1
Line Switch	Rocker switch 1 or 2 pole, non-illuminated or illuminated, acc. to IEC 61058-1 Technical details
Line Filter	Standard and Medical Version, IEC 60939, IEC 60601-1, UL 1283, UL 544, EN 133 200, CSA C22.2 no. 8 Technical details
MTBF	> 1'900'000 h acc. to MIL-HB-217 F

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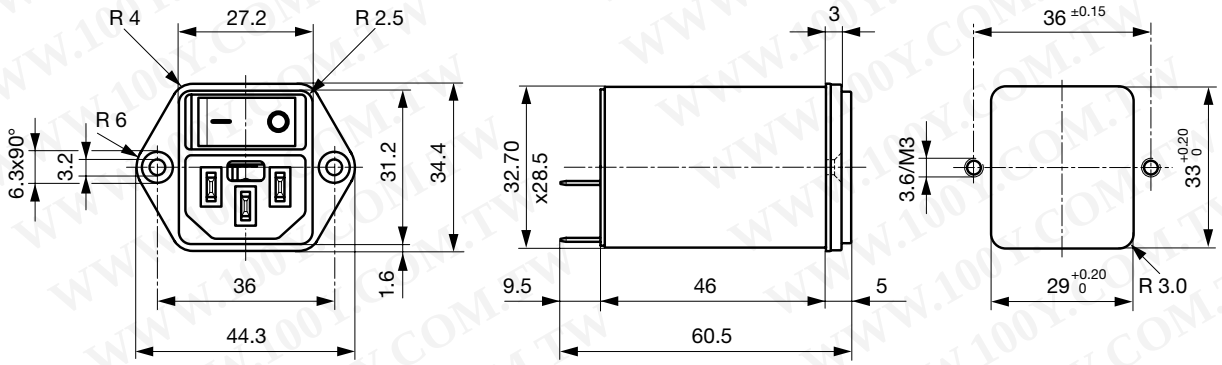
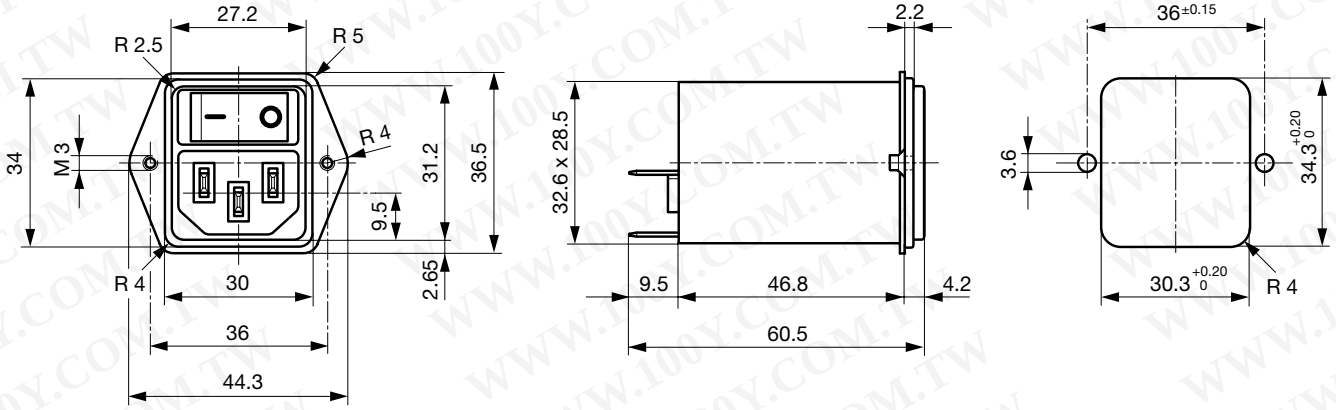
Dimensions

60.5 mm

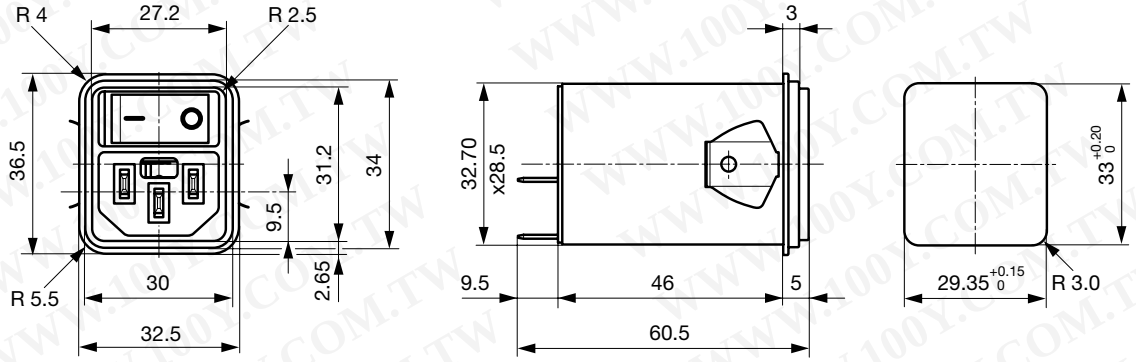
Screw-on mounting from front side



Screw-On Version from rear side (metal flange)



Snap-in mounting from front side



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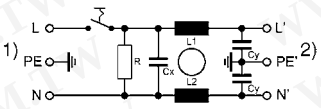
Technical Data of Filter-Components

Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
1	Standard Version	2 x 10	100	2.2	1
2	Standard Version	2 x 4	100	2.2	1
4	Standard Version	2 x 1.5	100	2.2	1
6	Standard Version	2 x 0.8	100	2.2	1
10	Standard Version	2 x 0.3	100	2.2	1
1	Medical Version (M5)	2 x 10	100	-	1
2	Medical Version (M5)	2 x 4	100	-	1
4	Medical Version (M5)	2 x 1.5	100	-	1
6	Medical Version (M5)	2 x 0.8	100	-	1
10	Medical Version (M5)	2 x 0.3	100	-	1
1	Medical Version (M80)	2 x 10	100	0.47	1
2	Medical Version (M80)	2 x 4	100	0.47	1
4	Medical Version (M80)	2 x 1.5	100	0.47	1
6	Medical Version (M80)	2 x 0.8	100	0.47	1
10	Medical Version (M80)	2 x 0.3	100	0.47	1

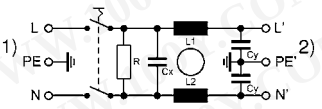
Diagrams

Standard filter 1-pole



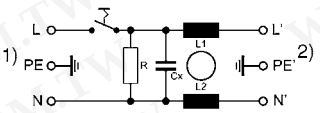
1) Line
2) Load

Standard filter 2-pole



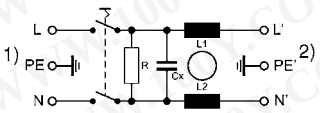
1) Line
2) Load

Medical filter 1-pole (M5)



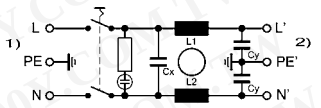
1) Line
2) Load

Medical filter 2-pole (M5)



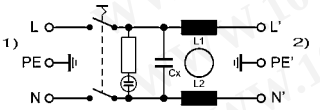
1) Line
2) Load

Standard filter 2-pole illuminated



1) Line
2) Load

Medical Filter 2-pole (M5) illuminated



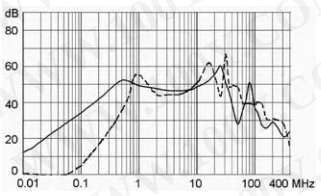
1) Line
2) Load

Attenuation Loss

. . . . . 0.1/100Ω differential mode ..... 100/0.1Ω differential mode - - - - differential mode _____ common mode

Standard version

1 A



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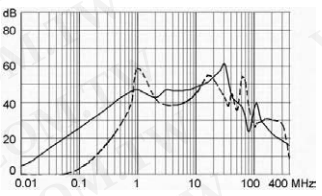

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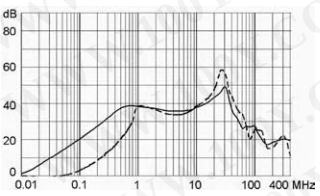

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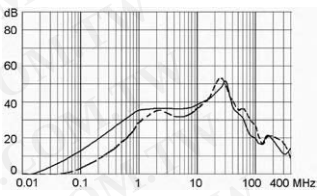

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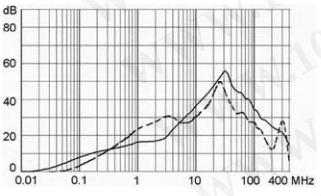

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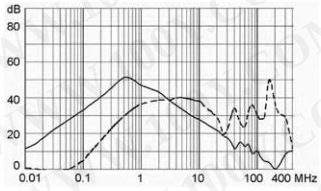
Medical version (M5)

1 A



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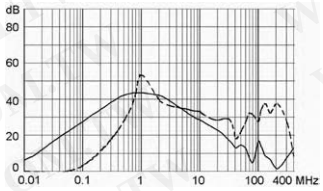

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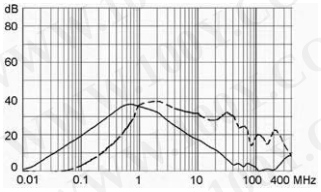

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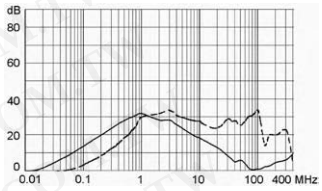

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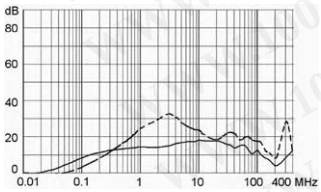

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Variants

Rated Current [A]	Filter-Type	Panel mounting	Mounting side	Line Switch	Illumination	Color	Order Number
1	Standard Version	Screw	Front-Side	1-pole	non-illuminated	-	DC12.1102.003
2	Standard Version	Screw	Front-Side	1-pole	non-illuminated	-	DC12.2102.003
4	Standard Version	Screw	Front-Side	1-pole	non-illuminated	-	DC12.3102.003
6	Standard Version	Screw	Front-Side	1-pole	non-illuminated	-	DC12.4102.003
10	Standard Version	Screw	Front-Side	1-pole	non-illuminated	-	DC12.5102.003
1	Standard Version	Screw	Front-Side	1-pole	illuminated	red	DC12.1122.003
1	Standard Version	Screw	Front-Side	1-pole	illuminated	green	DC12.1132.003
2	Standard Version	Screw	Front-Side	1-pole	illuminated	red	DC12.2122.003
2	Standard Version	Screw	Front-Side	1-pole	illuminated	green	DC12.2132.003
4	Standard Version	Screw	Front-Side	1-pole	illuminated	red	DC12.3122.003
4	Standard Version	Screw	Front-Side	1-pole	illuminated	green	DC12.3132.003
6	Standard Version	Screw	Front-Side	1-pole	illuminated	red	DC12.4122.003
6	Standard Version	Screw	Front-Side	1-pole	illuminated	green	DC12.4132.003
10	Standard Version	Screw	Front-Side	1-pole	illuminated	red	DC12.5122.003
10	Standard Version	Screw	Front-Side	1-pole	illuminated	green	DC12.5132.003
1	Standard Version	Screw	Front-Side	2-pole	non-illuminated	-	DC12.1102.001
2	Standard Version	Screw	Front-Side	2-pole	non-illuminated	-	DC12.2102.001
4	Standard Version	Screw	Front-Side	2-pole	non-illuminated	-	DC12.3102.001
6	Standard Version	Screw	Front-Side	2-pole	non-illuminated	-	DC12.4102.001
10	Standard Version	Screw	Front-Side	2-pole	non-illuminated	-	DC12.5102.001
1	Standard Version	Screw	Front-Side	2-pole	illuminated	red	DC12.1122.001
1	Standard Version	Screw	Front-Side	2-pole	illuminated	green	DC12.1132.001
2	Standard Version	Screw	Front-Side	2-pole	illuminated	red	DC12.2122.001
2	Standard Version	Screw	Front-Side	2-pole	illuminated	green	DC12.2132.001
4	Standard Version	Screw	Front-Side	2-pole	illuminated	red	DC12.3122.001
4	Standard Version	Screw	Front-Side	2-pole	illuminated	green	DC12.3132.001
6	Standard Version	Screw	Front-Side	2-pole	illuminated	red	DC12.4122.001
6	Standard Version	Screw	Front-Side	2-pole	illuminated	green	DC12.4132.001
10	Standard Version	Screw	Front-Side	2-pole	illuminated	red	DC12.5122.001
10	Standard Version	Screw	Front-Side	2-pole	illuminated	green	DC12.5132.001
1	Standard Version	Screw	Rear-Side	1-pole	non-illuminated	-	DC12.1102.203
2	Standard Version	Screw	Rear-Side	1-pole	non-illuminated	-	DC12.2102.203
4	Standard Version	Screw	Rear-Side	1-pole	non-illuminated	-	DC12.3102.203
6	Standard Version	Screw	Rear-Side	1-pole	non-illuminated	-	DC12.4102.203
10	Standard Version	Screw	Rear-Side	1-pole	non-illuminated	-	DC12.5102.203
1	Standard Version	Screw	Rear-Side	2-pole	non-illuminated	-	DC12.1102.201
2	Standard Version	Screw	Rear-Side	2-pole	non-illuminated	-	DC12.2102.201

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Rated Current [A]	Filter-Type	Panel mounting	Mounting side	Line Switch	Illumination	Color	Order Number
4	Standard Version	Screw	Rear-Side	2-pole	non-illuminated	-	DC12.3102.201
6	Standard Version	Screw	Rear-Side	2-pole	non-illuminated	-	DC12.4102.201
10	Standard Version	Screw	Rear-Side	2-pole	non-illuminated	-	DC12.5102.201
1	Standard Version	Snap-in	Front-Side	1-pole	non-illuminated	-	DC12.1102.103
2	Standard Version	Snap-in	Front-Side	1-pole	non-illuminated	-	DC12.2102.103
4	Standard Version	Snap-in	Front-Side	1-pole	non-illuminated	-	DC12.3102.103
6	Standard Version	Snap-in	Front-Side	1-pole	non-illuminated	-	DC12.4102.103
10	Standard Version	Snap-in	Front-Side	1-pole	non-illuminated	-	DC12.5102.103
1	Standard Version	Snap-in	Front-Side	1-pole	illuminated	red	DC12.1122.103
1	Standard Version	Snap-in	Front-Side	1-pole	illuminated	green	DC12.1132.103
2	Standard Version	Snap-in	Front-Side	1-pole	illuminated	red	DC12.2122.103
2	Standard Version	Snap-in	Front-Side	1-pole	illuminated	green	DC12.2132.103
4	Standard Version	Snap-in	Front-Side	1-pole	illuminated	red	DC12.3122.103
4	Standard Version	Snap-in	Front-Side	1-pole	illuminated	green	DC12.3132.103
6	Standard Version	Snap-in	Front-Side	1-pole	illuminated	red	DC12.4122.103
6	Standard Version	Snap-in	Front-Side	1-pole	illuminated	green	DC12.4132.103
10	Standard Version	Snap-in	Front-Side	1-pole	illuminated	red	DC12.5122.103
10	Standard Version	Snap-in	Front-Side	1-pole	illuminated	green	DC12.5132.103
1	Standard Version	Snap-in	Front-Side	2-pole	non-illuminated	-	DC12.1102.101
2	Standard Version	Snap-in	Front-Side	2-pole	non-illuminated	-	DC12.2102.101
4	Standard Version	Snap-in	Front-Side	2-pole	non-illuminated	-	DC12.3102.101
6	Standard Version	Snap-in	Front-Side	2-pole	non-illuminated	-	DC12.4102.101
10	Standard Version	Snap-in	Front-Side	2-pole	non-illuminated	-	DC12.5102.101
1	Standard Version	Snap-in	Front-Side	2-pole	illuminated	red	DC12.1122.101
1	Standard Version	Snap-in	Front-Side	2-pole	illuminated	green	DC12.1132.101
2	Standard Version	Snap-in	Front-Side	2-pole	illuminated	red	DC12.2122.101
2	Standard Version	Snap-in	Front-Side	2-pole	illuminated	green	DC12.2132.101
4	Standard Version	Snap-in	Front-Side	2-pole	illuminated	red	DC12.3122.101
4	Standard Version	Snap-in	Front-Side	2-pole	illuminated	green	DC12.3132.101
6	Standard Version	Snap-in	Front-Side	2-pole	illuminated	red	DC12.4122.101
6	Standard Version	Snap-in	Front-Side	2-pole	illuminated	green	DC12.4132.101
10	Standard Version	Snap-in	Front-Side	2-pole	illuminated	red	DC12.5122.101
10	Standard Version	Snap-in	Front-Side	2-pole	illuminated	green	DC12.5132.101
1	Medical Version (M5)	Screw	Front-Side	1-pole	non-illuminated	-	DC12.1202.003
2	Medical Version (M5)	Screw	Front-Side	1-pole	non-illuminated	-	DC12.2202.003
4	Medical Version (M5)	Screw	Front-Side	1-pole	non-illuminated	-	DC12.3202.003
6	Medical Version (M5)	Screw	Front-Side	1-pole	non-illuminated	-	DC12.4202.003
10	Medical Version (M5)	Screw	Front-Side	1-pole	non-illuminated	-	DC12.5202.003
1	Medical Version (M5)	Screw	Front-Side	1-pole	illuminated	red	DC12.1222.003
1	Medical Version (M5)	Screw	Front-Side	1-pole	illuminated	green	DC12.1232.003
2	Medical Version (M5)	Screw	Front-Side	1-pole	illuminated	red	DC12.2222.003
2	Medical Version (M5)	Screw	Front-Side	1-pole	illuminated	green	DC12.2232.003
4	Medical Version (M5)	Screw	Front-Side	1-pole	illuminated	red	DC12.3222.003
4	Medical Version (M5)	Screw	Front-Side	1-pole	illuminated	green	DC12.3232.003
6	Medical Version (M5)	Screw	Front-Side	1-pole	illuminated	red	DC12.4222.003
6	Medical Version (M5)	Screw	Front-Side	1-pole	illuminated	green	DC12.4232.003
10	Medical Version (M5)	Screw	Front-Side	1-pole	illuminated	red	DC12.5222.003
10	Medical Version (M5)	Screw	Front-Side	1-pole	illuminated	green	DC12.5232.003
1	Medical Version (M5)	Screw	Front-Side	2-pole	non-illuminated	-	DC12.1202.001
2	Medical Version (M5)	Screw	Front-Side	2-pole	non-illuminated	-	DC12.2202.001
4	Medical Version (M5)	Screw	Front-Side	2-pole	non-illuminated	-	DC12.3202.001
6	Medical Version (M5)	Screw	Front-Side	2-pole	non-illuminated	-	DC12.4202.001
10	Medical Version (M5)	Screw	Front-Side	2-pole	non-illuminated	-	DC12.5202.001
1	Medical Version (M5)	Screw	Front-Side	2-pole	illuminated	red	DC12.1222.001
1	Medical Version (M5)	Screw	Front-Side	2-pole	illuminated	green	DC12.1232.001

Rated Current [A]	Filter-Type	Panel mounting	Mounting side	Line Switch	Illumination	Color	Order Number
2	Medical Version (M5)	Screw	Front-Side	2-pole	illuminated	red	DC12.2222.001
2	Medical Version (M5)	Screw	Front-Side	2-pole	illuminated	green	DC12.2232.001
4	Medical Version (M5)	Screw	Front-Side	2-pole	illuminated	red	DC12.3222.001
4	Medical Version (M5)	Screw	Front-Side	2-pole	illuminated	green	DC12.3232.001
6	Medical Version (M5)	Screw	Front-Side	2-pole	illuminated	red	DC12.4222.001
6	Medical Version (M5)	Screw	Front-Side	2-pole	illuminated	green	DC12.4232.001
10	Medical Version (M5)	Screw	Front-Side	2-pole	illuminated	red	DC12.5222.001
10	Medical Version (M5)	Screw	Front-Side	2-pole	illuminated	green	DC12.5232.001
1	Medical Version (M5)	Screw	Rear-Side	2-pole	non-illuminated	-	DC12.1202.201
2	Medical Version (M5)	Screw	Rear-Side	2-pole	non-illuminated	-	DC12.2202.201
4	Medical Version (M5)	Screw	Rear-Side	2-pole	non-illuminated	-	DC12.3202.201
6	Medical Version (M5)	Screw	Rear-Side	2-pole	non-illuminated	-	DC12.4202.201
10	Medical Version (M5)	Screw	Rear-Side	2-pole	non-illuminated	-	DC12.5202.201
1	Medical Version (M5)	Snap-in	Front-Side	1-pole	non-illuminated	-	DC12.1202.103
2	Medical Version (M5)	Snap-in	Front-Side	1-pole	non-illuminated	-	DC12.2202.103
4	Medical Version (M5)	Snap-in	Front-Side	1-pole	non-illuminated	-	DC12.3202.103
6	Medical Version (M5)	Snap-in	Front-Side	1-pole	non-illuminated	-	DC12.4202.103
10	Medical Version (M5)	Snap-in	Front-Side	1-pole	non-illuminated	-	DC12.5202.103
1	Medical Version (M5)	Snap-in	Front-Side	1-pole	illuminated	red	DC12.1222.103
1	Medical Version (M5)	Snap-in	Front-Side	1-pole	illuminated	green	DC12.1232.103
2	Medical Version (M5)	Snap-in	Front-Side	1-pole	illuminated	red	DC12.2222.103
2	Medical Version (M5)	Snap-in	Front-Side	1-pole	illuminated	green	DC12.2232.103
4	Medical Version (M5)	Snap-in	Front-Side	1-pole	illuminated	red	DC12.3222.103
4	Medical Version (M5)	Snap-in	Front-Side	1-pole	illuminated	green	DC12.3232.103
6	Medical Version (M5)	Snap-in	Front-Side	1-pole	illuminated	red	DC12.4222.103
6	Medical Version (M5)	Snap-in	Front-Side	1-pole	illuminated	green	DC12.4232.103
10	Medical Version (M5)	Snap-in	Front-Side	1-pole	illuminated	red	DC12.5222.103
10	Medical Version (M5)	Snap-in	Front-Side	1-pole	illuminated	green	DC12.5232.103
1	Medical Version (M5)	Snap-in	Front-Side	2-pole	non-illuminated	-	DC12.1202.101
2	Medical Version (M5)	Snap-in	Front-Side	2-pole	non-illuminated	-	DC12.2202.101
4	Medical Version (M5)	Snap-in	Front-Side	2-pole	non-illuminated	-	DC12.3202.101
6	Medical Version (M5)	Snap-in	Front-Side	2-pole	non-illuminated	-	DC12.4202.101
10	Medical Version (M5)	Snap-in	Front-Side	2-pole	non-illuminated	-	DC12.5202.101
1	Medical Version (M5)	Snap-in	Front-Side	2-pole	illuminated	red	DC12.1222.101
1	Medical Version (M5)	Snap-in	Front-Side	2-pole	illuminated	green	DC12.1232.101
2	Medical Version (M5)	Snap-in	Front-Side	2-pole	illuminated	red	DC12.2222.101
2	Medical Version (M5)	Snap-in	Front-Side	2-pole	illuminated	green	DC12.2232.101
4	Medical Version (M5)	Snap-in	Front-Side	2-pole	illuminated	red	DC12.3222.101
4	Medical Version (M5)	Snap-in	Front-Side	2-pole	illuminated	green	DC12.3232.101
6	Medical Version (M5)	Snap-in	Front-Side	2-pole	illuminated	red	DC12.4222.101
10	Medical Version (M5)	Snap-in	Front-Side	2-pole	illuminated	red	DC12.5222.101
10	Medical Version (M5)	Snap-in	Front-Side	2-pole	illuminated	green	DC12.5232.101
1	Medical Version (M80)	Screw	Rear-Side	2-pole	non-illuminated	-	DC12.1602.201
2	Medical Version (M80)	Screw	Rear-Side	2-pole	non-illuminated	-	DC12.2602.201
4	Medical Version (M80)	Screw	Rear-Side	2-pole	non-illuminated	-	DC12.3602.201
6	Medical Version (M80)	Screw	Rear-Side	2-pole	non-illuminated	-	DC12.4602.201
10	Medical Version (M80)	Screw	Rear-Side	2-pole	non-illuminated	-	DC12.5602.201

Packaging unit 10 Pcs

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Accessories

Description	
Assorted Covers	
Rear Cover	
	0859.0075

Cord retaining kits	
Cord retaining strain relief	
Flat head, A	4700.0001
Countersunk, B	4700.0002

Mating Outlets/Connectors

Category / Description	
Appliance Outlet Overview complete	
IEC Appliance Outlet F, Screw-on Mounting, Front Side, Solder Terminal	4787
IEC Appliance Outlet F, Snap-in Mounting, Front Side, Solder or Quick-connect Terminal	4788
IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder, PCB or Quick-connect Terminal	5091
IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder or Quick-connect Terminal	5092
Appliance Outlet further types to DC12	

Connector Overview complete	
IEC Connector C15, Rewireable, Straight	0101
IEC Connector C15A, Rewireable, Straight	0102
IEC Connector C15A, Rewireable, Straight	0102-G
IEC Connector C15A, Rewireable, Angled	0112
IEC Connector C13, Rewireable, Angled	4012
Connector further types to DC12	...

Power Cord Overview complete	
Power Cord with IEC Connector C13, Angled	0311
Power Cord with IEC Connector C13, Angled	3011
Power Cord with IEC Connector C13, Angled	3012
Power Cord with IEC Connector C13, Angled	3013
Power Cord with IEC Connector C13	3020
Power Cord further types to DC12	...

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