

# PRODUCT BROCHURE

Specialized in EMI/RFI filter  
research and development for **30** years



## About High & Low

High & Low was founded in 1994. It is a high-tech enterprise that devoted to develop, manufacture and global sales of EMI/RFI filters.

### Quality System

High&Low have obtained ISO9001 & ISO14001 management system to ensure the product quality

### Safety Approvals

IEC/EN60939, UL1283, CSA C22.2 No.8 (C-UL), VDE0565 Teil3-1

# Enterprise History

## 2018-2023

- Listed as a medical support for the State Council's epidemic prevention and control medical supplies (The first batch)
- Introduce the Code of Conduct of the Business Alliance (RBA)
- Evaluated to High-tech enterprise

## 2015-2017

- Established an European office and launched waterproof power entry modules.
- Launched 3 phase EMI filter series for application in heavy industry.

## 2013-2014

- We adopt GP internal process electronic operating system
- Obtain the ISO 14001 management system

## 2007-2008

Safety approvals for all filters were upgraded to UL1283 5thEdition, EN60939 : 2005.)

## 2005-2006

All filters completed full range of RoHS compliance, and EMC laboratory was set up according to ISO/IEC17025. IECQ QC080000 approval.

## 2001-2002

- Whole series of products were updated to Medical grade, and obtained CSA approval.
- Established R&D center in Shenzhen

## 2003-2004

ERP system was conducted for improving manufacturing management .

## 1998-1999

- Established factory in Shenzhen
- H&L completed ISO 9002 management system

## 1994-1997

Began to develop and manufacture



## Enterprise Advantage

High & Low with 30 years of EMC-compliance solution experience, committed to providing standardized and customized solutions. By professional technology and support, to help customer's products to meet the EMC compatibility and safety test requirement.

## R&D

High & Low have own factory and a profession R&D team . Establish laboratories(SMTA) and sample centers , committed to developing new products to meet market demand . Every year, the company will invest 15% of the sales revenue into the research and development team for new product development and high-tech team . We have obtained patents from many countries in the development of new products ,such as China, Canada, Germany, Switzerland, etc .

## Service

High& Low provide high quality products and excellent service to satisfy our customer.



**IEC Inlet Filter**

General Purpose ..... 1



**Power Entry Module**

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**Single Phase Filter**

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**3 Phase Filter**

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## General Purpose



### Features

- General conducted attenuation performance
- Compact design, lower cost
- With IEC320 AC socket
- Current rating 1A~20A
- Practical solution for general and medical devices

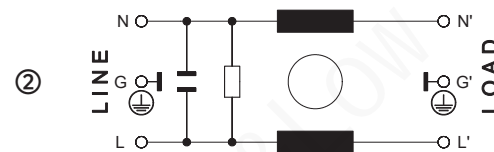
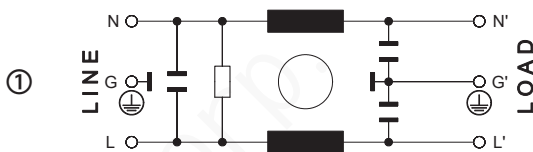
### Applications

- IPC
- Claw machine
- UPS
- SMPS
- Power supply

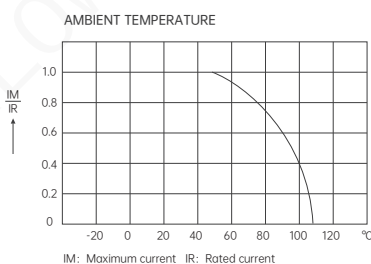
### Filter Selection Table

Performance	Filter Part No.	Rated Current (50°C)	Leakage Current (250VAC/50Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Electrical Schematic	Mechanical Drawing	Output Terminal
Standard	01SS1-R-Q(S)	1A	450μA max.	100MΩ min.	150 max.	①	A	Q
	03SS1-R-Q(S)	3A	450μA max.	100MΩ min.	150 max.	①	A	Q
	06SS1-R-Q(S)	6A	450μA max.	100MΩ min.	100 max.	①	A	Q
	10SS1-R-Q(S)	10A	450μA max.	100MΩ min.	100 max.	①	A	Q
	15SS1-R-Q(S)	15A	450μA max.	100MΩ min.	100 max.	①	A	Q
	20SS1-FR-Q	20A	450μA max.	100MΩ min.	100 max.	①	C	Q
	01SS1-PR-Q	1A	450μA max.	100MΩ min.	150 max.	①	B	Q
	03SS1-PR-Q	3A	450μA max.	100MΩ min.	150 max.	①	B	Q
	06SS1-PR-Q	6A	450μA max.	100MΩ min.	100 max.	①	B	Q
	10SS1-PR-Q	10A	450μA max.	100MΩ min.	100 max.	①	B	Q
15SS1-PR-Q	15A	450μA max.	100MΩ min.	100 max.	①	B	Q	
Medical Compliant	01SS1A-R-Q(S)	1A	5μA max.	100MΩ min.	150 max.	②	A	Q
	03SS1A-R-Q(S)	3A	5μA max.	100MΩ min.	150 max.	②	A	Q
	06SS1A-R-Q(S)	6A	5μA max.	100MΩ min.	100 max.	②	A	Q
	10SS1A-R-Q(S)	10A	5μA max.	100MΩ min.	100 max.	②	A	Q
	15SS1A-R-Q(S)	15A	5μA max.	100MΩ min.	100 max.	②	A	Q
	01SS1A-PR-Q	1A	5μA max.	100MΩ min.	150 max.	②	B	Q
	03SS1A-PR-Q	3A	5μA max.	100MΩ min.	150 max.	②	B	Q
	06SS1A-PR-Q	6A	5μA max.	100MΩ min.	100 max.	②	B	Q
	10SS1A-PR-Q	10A	5μA max.	100MΩ min.	100 max.	②	B	Q
	15SS1A-PR-Q	15A	5μA max.	100MΩ min.	100 max.	②	B	Q

### Electrical Schematic



### Derating curve of current



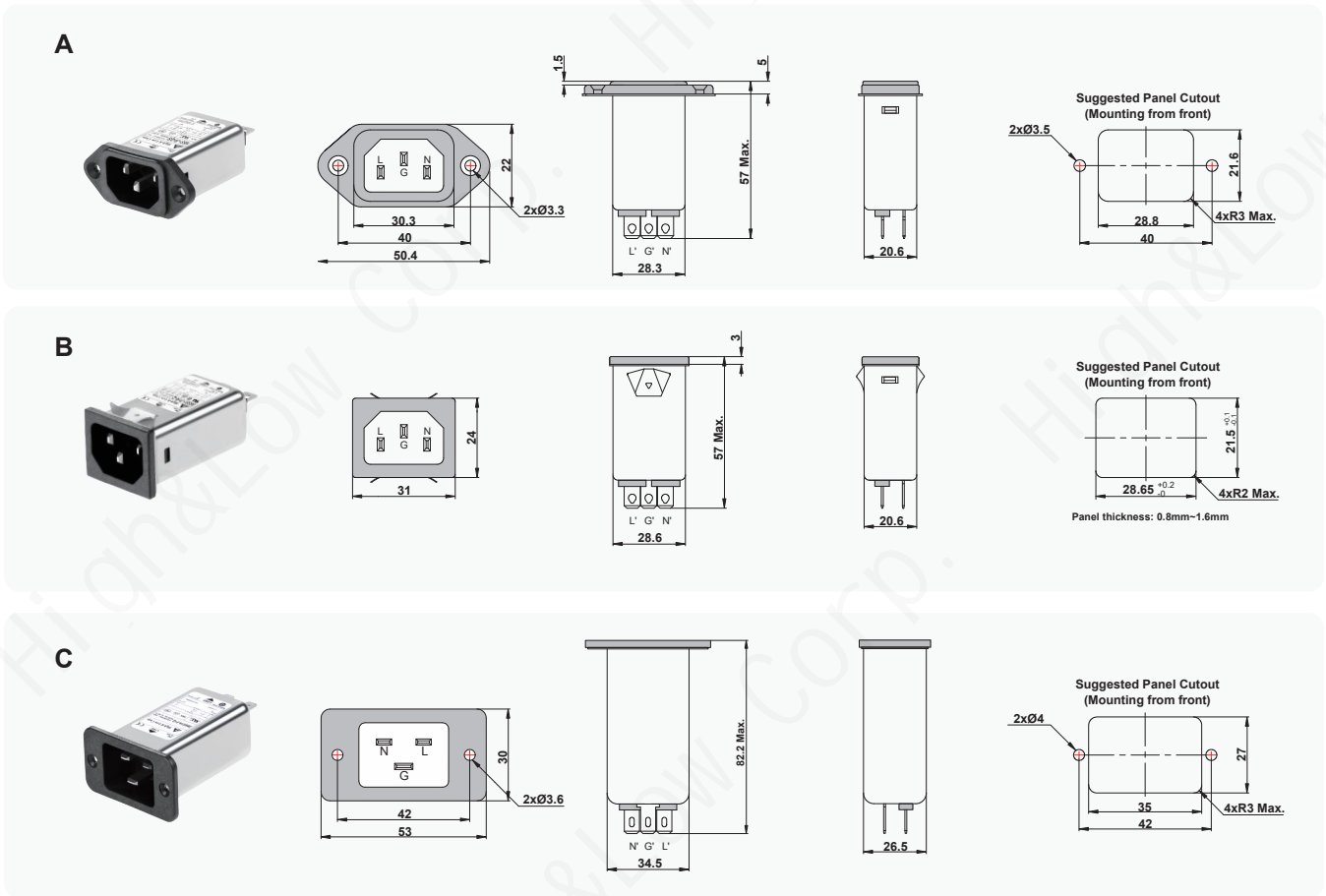
### Output Terminal (mm)



## General Purpose

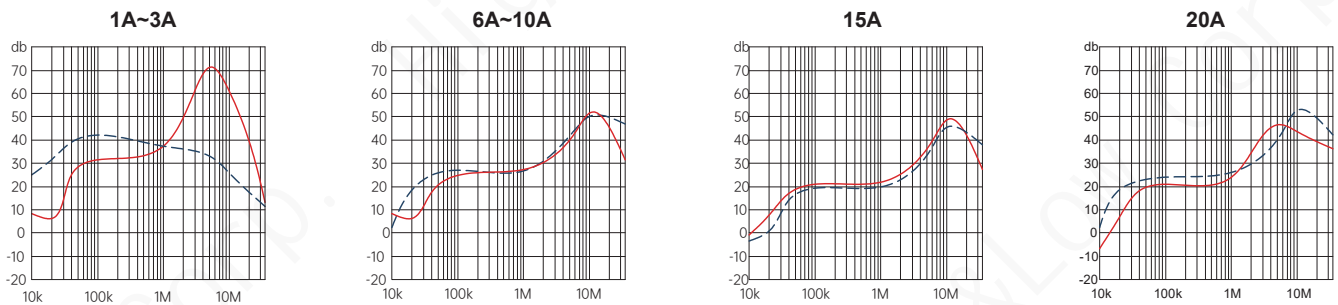


### Mechanical Drawing (mm)



### Filter Attenuation

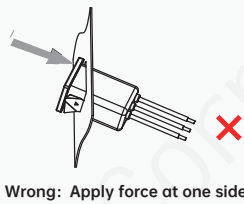
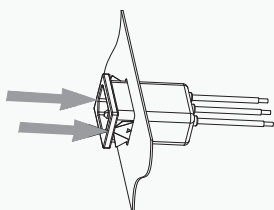
Insertion loss (dB) in 50 ohm system CISPR 17 (for reference only)



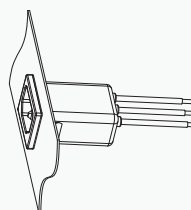
Common mode / Asymmetric (L-G) ——— Differential mode / Symmetric (L-L) - - - - -

## Installation Instructions For SS1 Snap-in Type Filter

Step 1: Apply force evenly on both sides



Step 2: Complete Installation



## Socket+Fuse Holder



### Features

- General conducted attenuation performance
- Easy to install, compact size
- Front mounting
- Current rating 1A~10A
- With IEC320 AC socket and fuse holder

### Applications

- Controls and communication systems
- Rack mounting equipment
- Audio and video processor
- Slot machine
- Lighting equipment

### Filter Selection Table

Performance	Filter Part No.	Rated Current (50°C)	Leakage Current (250VAC/50Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Elctrical Schematic	Mechanical Drawing	Fuse holder	Output Terminal
Standard	01SS3-1SR-Q	1A	450μA max.	100MΩ min.	500 max.	①	A	single	Q
	03SS3-1SR-Q	3A	450μA max.	100MΩ min.	500 max.	①	A	single	Q
	06SS3-1SR-Q	6A	450μA max.	100MΩ min.	300 max.	①	A	single	Q
	10SS3-1SR-Q	10A	450μA max.	100MΩ min.	300 max.	①	A	single	Q
	01SS3-2SR-Q	1A	450μA max.	100MΩ min.	500 max.	②	A	double	Q
	03SS3-2SR-Q	3A	450μA max.	100MΩ min.	500 max.	②	A	double	Q
	06SS3-2SR-Q	6A	450μA max.	100MΩ min.	300 max.	②	A	double	Q
	10SS3-2SR-Q	10A	450μA max.	100MΩ min.	300 max.	②	A	double	Q
	01SS3-2SR-Q(S)	1A	450μA max.	100MΩ min.	500 max.	②	B	double	Q
	03SS3-2SR-Q(S)	3A	450μA max.	100MΩ min.	500 max.	②	B	double	Q
	06SS3-2SR-Q(S)	6A	450μA max.	100MΩ min.	300 max.	②	B	double	Q
	10SS3-2SR-Q(S)	10A	450μA max.	100MΩ min.	300 max.	②	B	double	Q
	01SS3-1PSR-Q	1A	450μA max.	100MΩ min.	500 max.	①	C	single	Q
	03SS3-1PSR-Q	3A	450μA max.	100MΩ min.	500 max.	①	C	single	Q
	06SS3-1PSR-Q	6A	450μA max.	100MΩ min.	300 max.	①	C	single	Q
	10SS3-1PSR-Q	10A	450μA max.	100MΩ min.	300 max.	①	C	single	Q
	01SS3-2PSR-Q	1A	450μA max.	100MΩ min.	500 max.	②	C	double	Q
	03SS3-2PSR-Q	3A	450μA max.	100MΩ min.	500 max.	②	C	double	Q
	06SS3-2PSR-Q	6A	450μA max.	100MΩ min.	300 max.	②	C	double	Q
	10SS3-2PSR-Q	10A	450μA max.	100MΩ min.	300 max.	②	C	double	Q
High Performance	01SS3-A1SR-Q	1A	450μA max.	100MΩ min.	500 max.	③	A	single	Q
	03SS3-A1SR-Q	3A	450μA max.	100MΩ min.	500 max.	③	A	single	Q
	06SS3-A1SR-Q	6A	450μA max.	100MΩ min.	300 max.	③	A	single	Q
	10SS3-A1SR-Q	10A	450μA max.	100MΩ min.	300 max.	③	A	single	Q
	01SS3-A2SR-Q	1A	450μA max.	100MΩ min.	500 max.	④	A	double	Q
	03SS3-A2SR-Q	3A	450μA max.	100MΩ min.	500 max.	④	A	double	Q
	06SS3-A2SR-Q	6A	450μA max.	100MΩ min.	300 max.	④	A	double	Q
	10SS3-A2SR-Q	10A	450μA max.	100MΩ min.	300 max.	④	A	double	Q
	01SS3-A2PSR-Q	1A	450μA max.	100MΩ min.	500 max.	④	C	double	Q
	03SS3-A2PSR-Q	3A	450μA max.	100MΩ min.	500 max.	④	C	double	Q
	06SS3-A2PSR-Q	6A	450μA max.	100MΩ min.	300 max.	④	C	double	Q
	10SS3-A2PSR-Q	10A	450μA max.	100MΩ min.	300 max.	④	C	double	Q



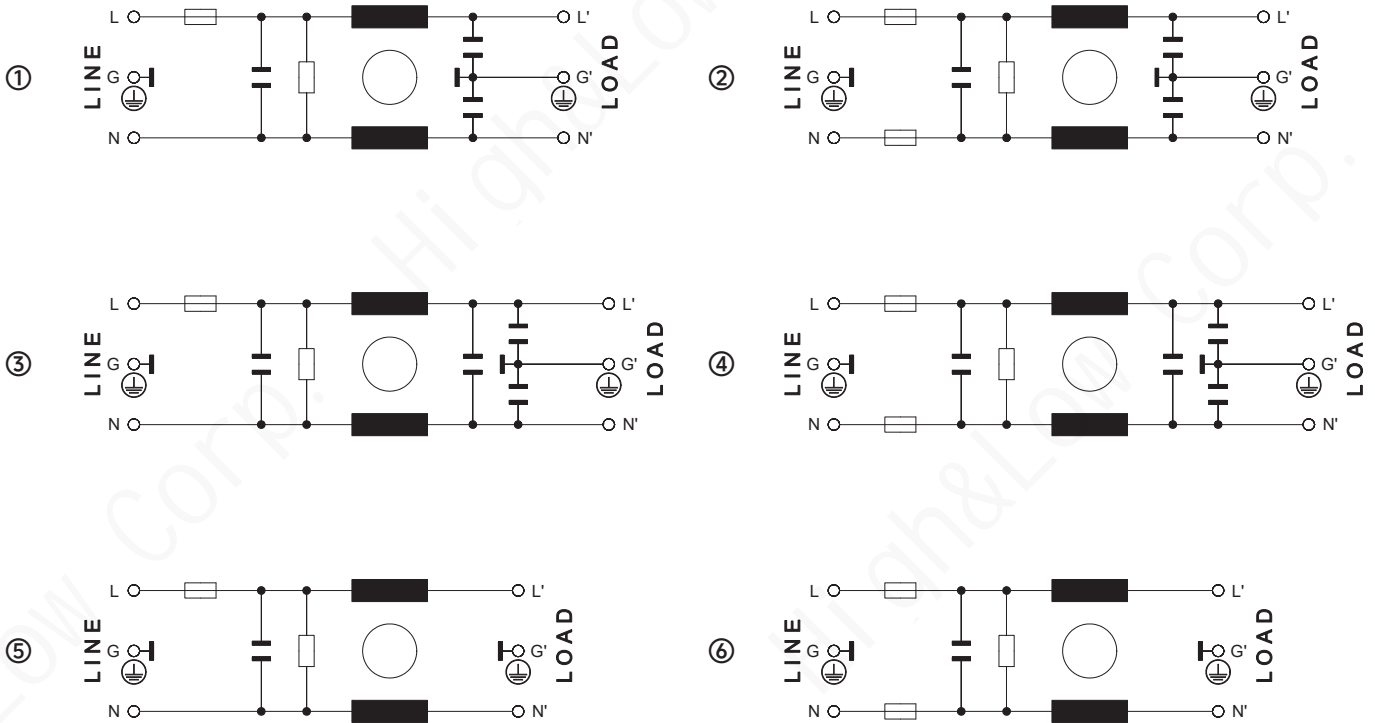
## Socket+Fuse Holder



### Filter Selection Table

Performance	Filter Part No.	Rated Current (50°C)	Leakage Current (250VAC/50Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Electrical Schematic	Mechanical Drawing	Fuse holder	Output Terminal
Medical Compliant	01SS3A-1SR-Q	1A	5μA max.	100MΩ min.	500 max.	⑤	A	single	Q
	03SS3A-1SR-Q	3A	5μA max.	100MΩ min.	500 max.	⑤	A	single	Q
	06SS3A-1SR-Q	6A	5μA max.	100MΩ min.	300 max.	⑤	A	single	Q
	10SS3A-1SR-Q	10A	5μA max.	100MΩ min.	300 max.	⑤	A	single	Q
	01SS3A-2SR-Q	1A	5μA max.	100MΩ min.	500 max.	⑥	A	double	Q
	03SS3A-2SR-Q	3A	5μA max.	100MΩ min.	500 max.	⑥	A	double	Q
	06SS3A-2SR-Q	6A	5μA max.	100MΩ min.	300 max.	⑥	A	double	Q
	10SS3A-2SR-Q	10A	5μA max.	100MΩ min.	300 max.	⑥	A	double	Q
	01SS3A-1PSR-Q	1A	5μA max.	100MΩ min.	500 max.	⑤	C	single	Q
	03SS3A-1PSR-Q	3A	5μA max.	100MΩ min.	500 max.	⑤	C	single	Q
	06SS3A-1PSR-Q	6A	5μA max.	100MΩ min.	300 max.	⑤	C	single	Q
	10SS3A-1PSR-Q	10A	5μA max.	100MΩ min.	300 max.	⑤	C	single	Q
	01SS3A-2PSR-Q	1A	5μA max.	100MΩ min.	500 max.	⑥	C	double	Q
	03SS3A-2PSR-Q	3A	5μA max.	100MΩ min.	500 max.	⑥	C	double	Q
	06SS3A-2PSR-Q	6A	5μA max.	100MΩ min.	300 max.	⑥	C	double	Q
	10SS3A-2PSR-Q	10A	5μA max.	100MΩ min.	300 max.	⑥	C	double	Q

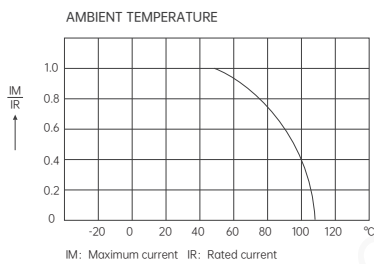
### Electrical Schematic



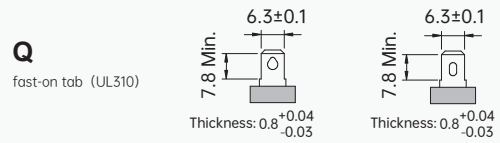
## Socket+Fuse Holder



### Derating curve of current

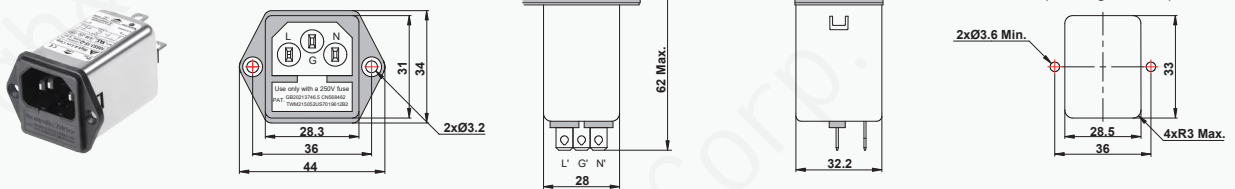


### Output Terminal (mm)

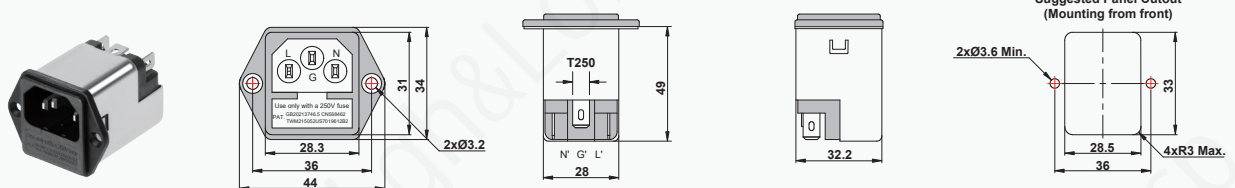


### Mechanical Drawing (mm)

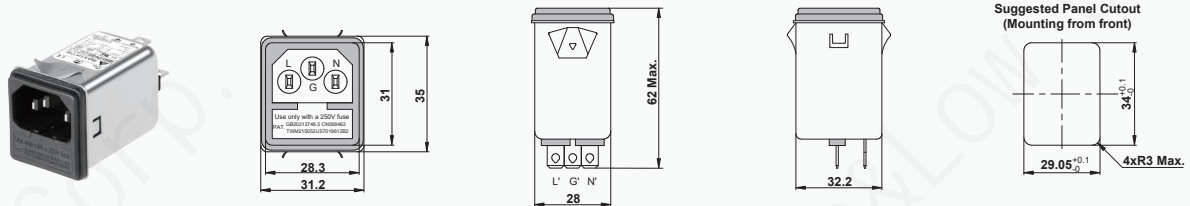
#### A • screw mounting



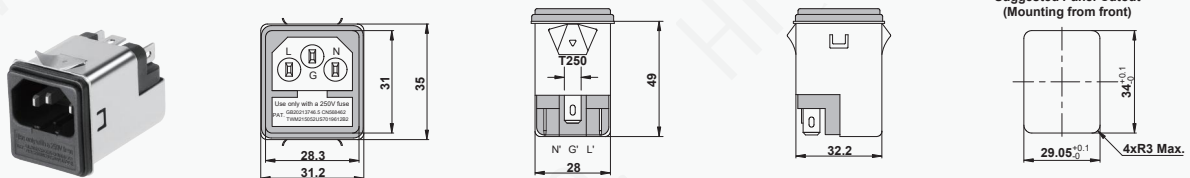
#### B • screw mounting, short version



#### C • snap-in mounting with up & down spring



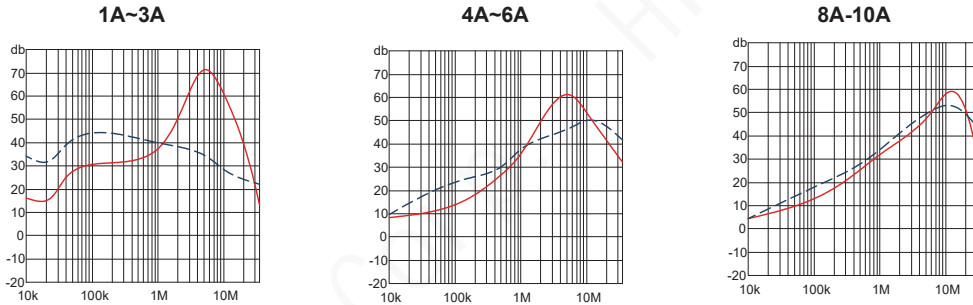
#### D • snap-in mounting with up & down spring, short version



## Socket+Fuse Holder



**Filter Attenuation** Insertion loss (dB) in 50 ohm system CISPR 17 (for reference only)



Common mode / Asymmetric (L-G) ——— Differential mode / Symmetric (L-L) - - - - -

## Following are step-by-step instructions for installing fuse(s).

### Step 1: Pull out the fuse holder

**1-1**

Use a slotted screwdriver (around 5mm) as shown in the belows insert into the point **A** and pry open with required force range in 0.13-0.2Nm.  
Note: Do not scratch the socket.

**1-2**

Pull-out force: 0.13-0.2Nm.

**1-3**

Completed.

### Step 2: Install the fuse(s)

**2-1**

Load the fuse into the fuse holder at 45 degree inclination. Recom. contact force: 0.04-0.06Nm.

**2-2**

Place the fuse to vertical position.

**2-3**

Completed.

**correct:**

**wrong:**

**correct:**

**wrong:**

### Step 3: Push in the fuse holder

**3-1**

Push the fuse holder into the filter till hearing a "pop" sound, and that means it has been done successfully.

**3-2**

Push-in force: 0.13-0.2Nm.

**3-3**

Completed.

**correct:**

**wrong:**

## Socket+Fuse Holder | Waterproof (IP65)



### Features

- Compact design with waterproof kit included
- Superior conducted attenuation performance
- Screw mounting
- Current rating 1A~10A
- IP65 acc. to IEC 60529 against liquids or mist

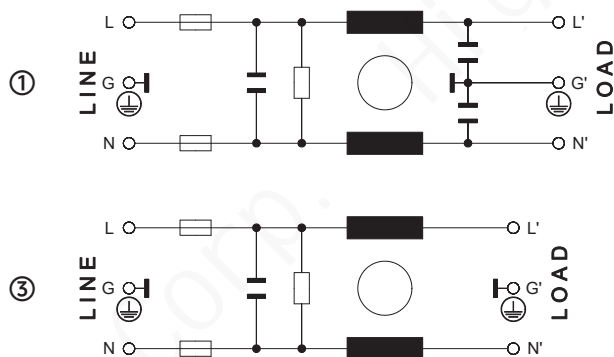
### Applications

- Infusion pump (medical)
- Medical device (not body-coupled)
- Surveillance system
- EDP system
- Measuring instruments

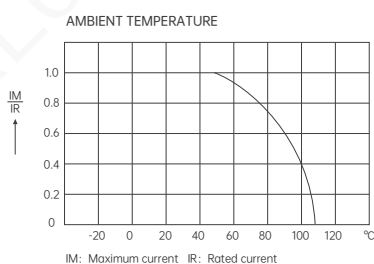
### Filter Selection Table

Performance	Filter Part No.	Rated Current (50°C)	Leakage Current (250VAC/50Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Electrical Schematic	Mechanical Drawing	Fuse holder	Output Terminal
Standard	01SS3-2SR-Q	1A	450μA max.	100MΩ min.	500 max.	①	A	double	Q
	03SS3-2SR-Q	3A	450μA max.	100MΩ min.	500 max.	①	A	double	Q
	06SS3-2SR-Q	6A	450μA max.	100MΩ min.	300 max.	①	A	double	Q
	10SS3-2SR-Q	10A	450μA max.	100MΩ min.	300 max.	①	A	double	Q
High Performance	01SS3-A2SR-Q	1A	450μA max.	100MΩ min.	500 max.	②	A	double	Q
	03SS3-A2SR-Q	3A	450μA max.	100MΩ min.	500 max.	②	A	double	Q
	06SS3-A2SR-Q	6A	450μA max.	100MΩ min.	300 max.	②	A	double	Q
	10SS3-A2SR-Q	10A	450μA max.	100MΩ min.	300 max.	②	A	double	Q
Medical Compliant	01SS3A-2SR-Q	1A	5μA max.	100MΩ min.	500 max.	③	A	double	Q
	03SS3A-2SR-Q	3A	5μA max.	100MΩ min.	500 max.	③	A	double	Q
	06SS3A-2SR-Q	6A	5μA max.	100MΩ min.	300 max.	③	A	double	Q
	10SS3A-2SR-Q	10A	5μA max.	100MΩ min.	300 max.	③	A	double	Q

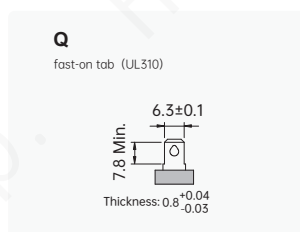
### Electrical Schematic



### Derating curve of current



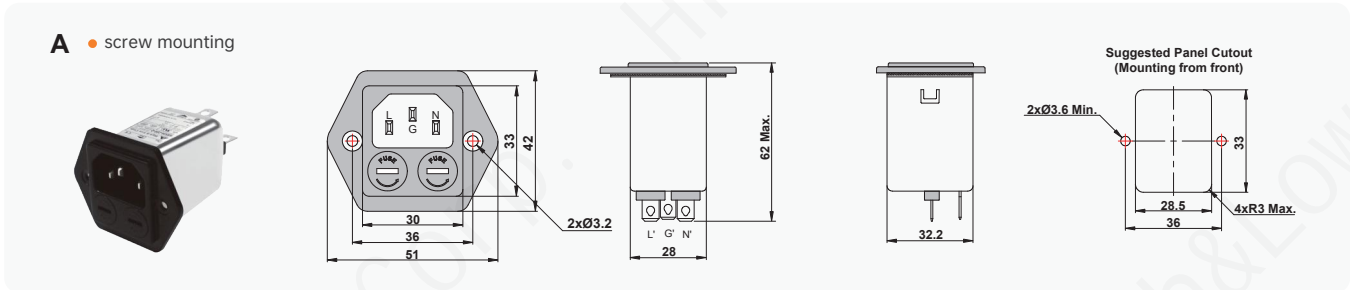
### Output Terminal (mm)



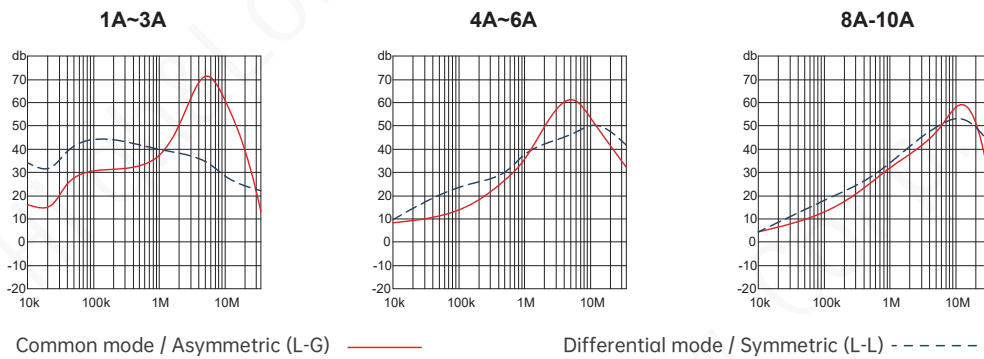
## Socket+Fuse Holder | Waterproof (IP65)



### Mechanical Drawing (mm)



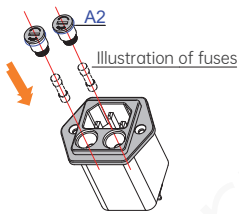
### Filter Attenuation Insertion loss (dB) in 50 ohm system CISPR 17 (for reference only)



### Installation instructions for waterproof kit

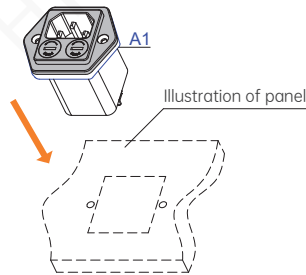
#### Step 1

Put A2 on the cover of fuse holder first. Install fuse(s) and put fuse holder back.



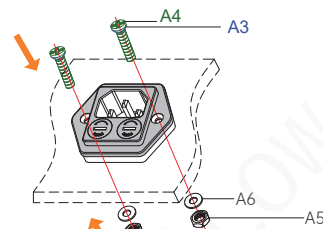
#### Step 2

Put A1 on the filter, then install the filter on panel.



#### Step 3

Put A3 on A4 first, then install the A4. Install A6 and A5 on A4 from the rear of panel.



#### Waterproof kit (Item code: Part x Q'ty)

- A1: Silicon rubber sealing for filter.....x1
- A2: Silicon rubber sealing for fuse holder.....x6
- A3: Silicon rubber sealing for M3 screw.....x6
- A4: M3 screw.....x2
- A5: M3 nut.....x2
- A6: M3 washer.....x2



## Socket+Switch



### Features

- Standard conducted attenuation performance
- Optional SPST or DPST rocker switch
- Front mounting
- Current rating 1A~10A
- With IEC320 AC socket and switch

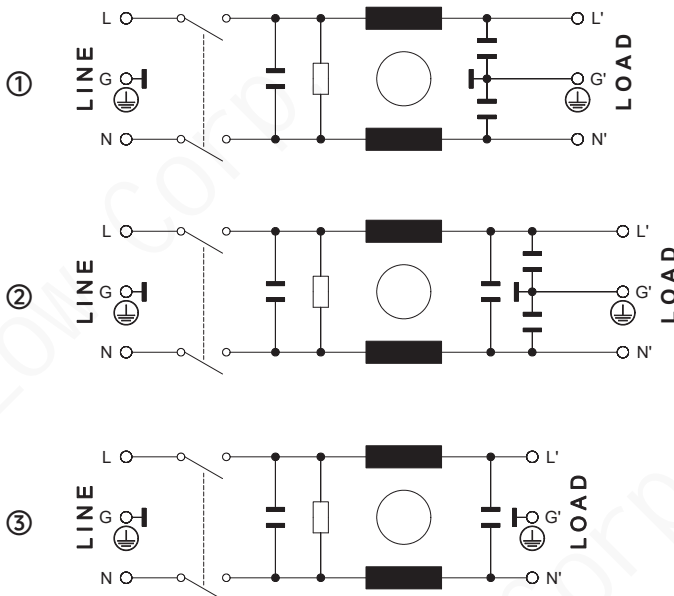
### Applications

- SMPS. UPS
- Power line communications
- Network technology
- Surveillance system
- EDP system

### Filter Selection Table

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	03SS3-SSR-Q(B)	3A	450μA max.	100MΩ min.	500 max.	①	A	Q
	06SS3-SSR-Q(B)	6A	450μA max.	100MΩ min.	300 max.	①	A	Q
	10SS3-SSR-Q(B)	10A	450μA max.	100MΩ min.	300 max.	①	A	Q
	01SS3-SPSR-Q(B)	1A	450μA max.	100MΩ min.	500 max.	①	B	Q
	03SS3-SPSR-Q(B)	3A	450μA max.	100MΩ min.	500 max.	①	B	Q
	06SS3-SPSR-Q(B)	6A	450μA max.	100MΩ min.	300 max.	①	B	Q
High Performance	10SS3-SPSR-Q(B)	10A	450μA max.	100MΩ min.	300 max.	①	B	Q
	01SS3-ASSR-Q(B)	1A	450μA max.	100MΩ min.	500 max.	②	A	Q
	03SS3-ASSR-Q(B)	3A	450μA max.	100MΩ min.	500 max.	②	A	Q
	06SS3-ASSR-Q(B)	6A	450μA max.	100MΩ min.	300 max.	②	A	Q
	10SS3-ASSR-Q(B)	10A	450μA max.	100mΩ min.	300 max.	②	A	Q
	01SS3-ASPSR-Q(B)	1A	450μA max.	100MΩ min.	500 max.	②	B	Q
	03SS3-ASPSR-Q(B)	3A	450μA max.	100MΩ min.	500 max.	②	B	Q
Medical Compliant	06SS3-ASPSR-Q(B)	6A	450μA max.	100MΩ min.	300 max.	②	B	Q
	10SS3-ASPSR-Q(B)	10A	450μA max.	100MΩ min.	300 max.	②	B	Q
	01SS3A-SSR-Q(B)	1A	5μA max.	100MΩ min.	500 max.	③	A	Q
	03SS3A-SSR-Q(B)	3A	5μA max.	100MΩ min.	500 max.	③	A	Q
	06SS3A-SSR-Q(B)	6A	5μA max.	100MΩ min.	300 max.	③	A	Q
	10SS3A-SSR-Q(B)	10A	5μA max.	100MΩ min.	300 max.	③	A	Q
	01SS3A-SPSR-Q(B)	1A	5μA max.	100MΩ min.	500 max.	③	B	Q
03SS3A-SPSR-Q(B)	3A	5μA max.	100MΩ min.	500 max.	③	B	Q	
06SS3A-SPSR-Q(B)	6A	5μA max.	100MΩ min.	300 max.	③	B	Q	
10SS3A-SPSR-Q(B)	10A	5μA max.	100MΩ min.	300 max.	③	B	Q	

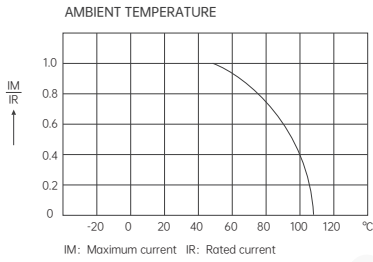
### Electrical Schematic



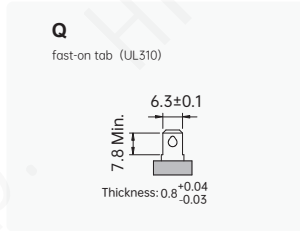
## Socket+Switch



### Derating curve of current

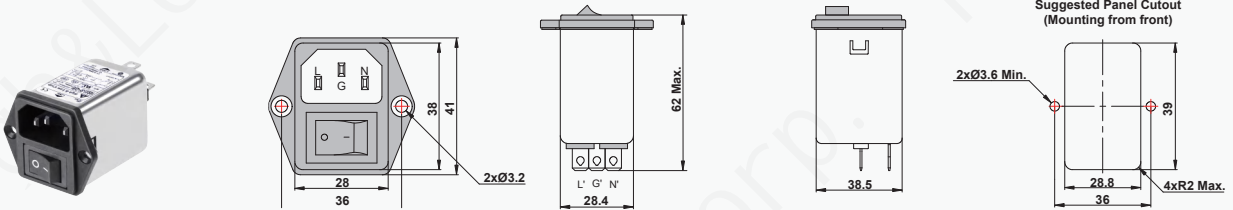


### Output Terminal (mm)

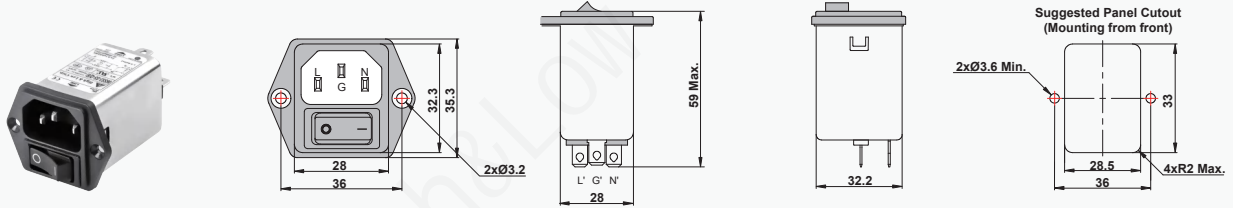


### Mechanical Drawing (mm)

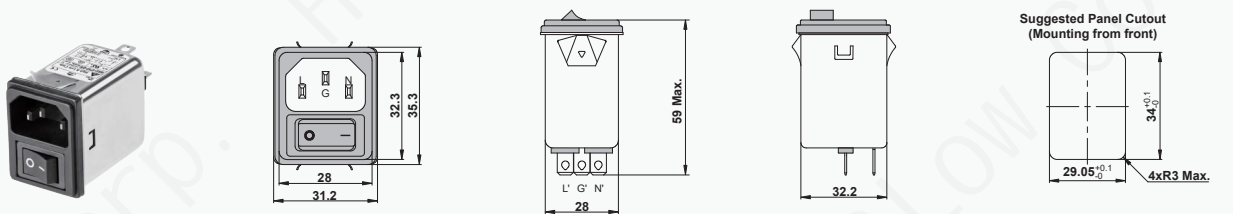
#### A • screw mounting, with DPST switch



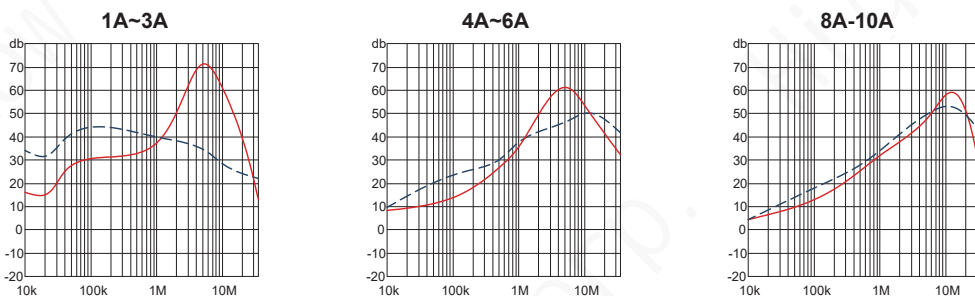
#### A • screw mounting, with DPST switch



#### B • snap-in mounting, with DPST switch



### Filter Attenuation Insertion loss (dB) in 50 ohm system CISPR 17 (for reference only)



Common mode / Asymmetric (L-G) ———

Differential mode / Symmetric (L-L) - - - - -

## Socket+Fuse Holder+Switch



### Features

- 3 in 1 compact power entry modules with filtered
- IEC950 appliance inlet
- Front mounting or snap-in mounting
- Current rating 1A~10A
- With IEC320 AC socket and fuse holder and switch

### Applications

- Safety tester
- Automated optical inspection (AOI)
- Gaming machine
- Darts machine
- Server

### Filter Selection Table

Performance	Filter Part No.	Rated Current (50°C)	Leakage Current (250VAC/50Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Electrical Schematic	Mechanical Drawing	Fuse holder	Output Terminal
Standard	01SS6-B1AHR-QBB	1A	450μA max.	100MΩ min.	500 max.	①	A	single	Q
	03SS6-B1AHR-QBB	3A	450μA max.	100MΩ min.	500 max.	①	A	single	Q
	06SS6-B1AHR-QBB	6A	450μA max.	100MΩ min.	300 max.	①	A	single	Q
	10SS6-B1AHR-QBB	10A	450μA max.	100MΩ min.	300 max.	①	A	single	Q
	01SS6-B1AHR-QPB	1A	450μA max.	100MΩ min.	500 max.	①	B	single	Q
	03SS6-B1AHR-QPB	3A	450μA max.	100MΩ min.	500 max.	①	B	single	Q
	06SS6-B1AHR-QPB	6A	450μA max.	100MΩ min.	300 max.	①	B	single	Q
	10SS6-B1AHR-QPB	10A	450μA max.	100MΩ min.	300 max.	①	B	single	Q
	01SS6-B1AHR-QUB	1A	450μA max.	100MΩ min.	500 max.	①	C	single	Q
	03SS6-B1AHR-QUB	3A	450μA max.	100MΩ min.	500 max.	①	C	single	Q
	06SS6-B1AHR-QUB	6A	450μA max.	100MΩ min.	300 max.	①	C	single	Q
	10SS6-B1AHR-QUB	10A	450μA max.	100MΩ min.	300 max.	①	C	single	Q
	01SS6-B1AIR-QBB	1A	600μA max.	100MΩ min.	500 max.	①	A	single	Q
	03SS6-B1AIR-QBB	3A	600μA max.	100MΩ min.	500 max.	①	A	single	Q
	06SS6-B1AIR-QBB	6A	600μA max.	100MΩ min.	300 max.	①	A	single	Q
	10SS6-B1AIR-QBB	10A	600μA max.	100MΩ min.	300 max.	①	A	single	Q
	01SS6-B1AIR-QPB	1A	600μA max.	100MΩ min.	500 max.	①	B	single	Q
	03SS6-B1AIR-QPB	3A	600μA max.	100MΩ min.	500 max.	①	B	single	Q
	06SS6-B1AIR-QPB	6A	600μA max.	100MΩ min.	300 max.	①	B	single	Q
	10SS6-B1AIR-QPB	10A	600μA max.	100MΩ min.	300 max.	①	B	single	Q
	01SS6-B1AIR-QUB	1A	600μA max.	100MΩ min.	500 max.	①	C	single	Q
	03SS6-B1AIR-QUB	3A	600μA max.	100MΩ min.	500 max.	①	C	single	Q
	06SS6-B1AIR-QUB	6A	600μA max.	100MΩ min.	300 max.	①	C	single	Q
	10SS6-B1AIR-QUB	10A	600μA max.	100MΩ min.	300 max.	①	C	single	Q
	01SS6-B1ASR-QBB	1A	450μA max.	100MΩ min.	500 max.	①	A	single	Q
	03SS6-B1ASR-QBB	3A	450μA max.	100MΩ min.	500 max.	①	A	single	Q
	06SS6-B1ASR-QBB	6A	450μA max.	100MΩ min.	300 max.	①	A	single	Q
	10SS6-B1ASR-QBB	10A	450μA max.	100MΩ min.	300 max.	①	A	single	Q
	01SS6-B1ASR-QPB	1A	450μA max.	100MΩ min.	500 max.	①	B	single	Q
	03SS6-B1ASR-QPB	3A	450μA max.	100MΩ min.	500 max.	①	B	single	Q
06SS6-B1ASR-QPB	6A	450μA max.	100MΩ min.	300 max.	①	B	single	Q	
10SS6-B1ASR-QPB	10A	450μA max.	100MΩ min.	300 max.	①	B	single	Q	
01SS6-B1ASR-QUB	1A	450μA max.	100MΩ min.	500 max.	①	C	single	Q	
03SS6-B1ASR-QUB	3A	450μA max.	100MΩ min.	500 max.	①	C	single	Q	
06SS6-B1ASR-QUB	6A	450μA max.	100MΩ min.	300 max.	①	C	single	Q	
10SS6-B1ASR-QUB	10A	450μA max.	100MΩ min.	300 max.	①	C	single	Q	
High Performance	01SS6-B1BI-QBB	1A	600μA max.	100MΩ min.	500 max.	③	A	single	Q
	03SS6-B1BI-QBB	3A	600μA max.	100MΩ min.	500 max.	③	A	single	Q
	06SS6-B1BI-QBB	6A	600μA max.	100MΩ min.	300 max.	③	A	single	Q
	10SS6-B1BI-QBB	10A	600μA max.	100MΩ min.	300 max.	③	A	single	Q
	01SS6-B1BH-QBB	1A	450μA max.	100MΩ min.	500 max.	③	A	single	Q
	03SS6-B1BH-QBB	3A	450μA max.	100MΩ min.	500 max.	③	A	single	Q
	06SS6-B1BH-QBB	6A	450μA max.	100MΩ min.	300 max.	③	A	single	Q
	10SS6-B1BH-QBB	10A	450μA max.	100MΩ min.	300 max.	③	A	single	Q

**Socket+Fuse Holder+Switch**

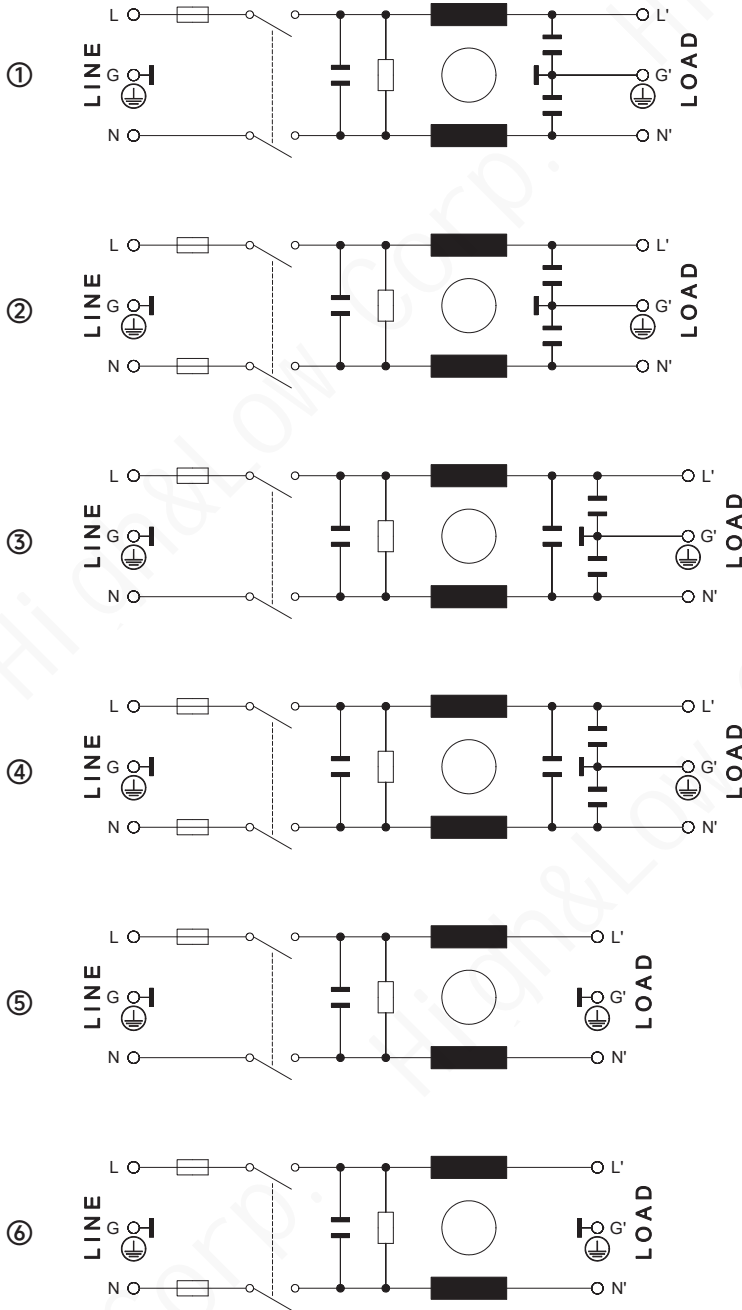


Performance	Filter Part No.	Rated Current (50°C)	Leakage Current (250VAC/50Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Electrical Schematic	Mechanical Drawing	Fuse holder	Output Terminal
Standard	01SS6-B2AHR-QBB	1A	450µA max.	100MΩ min.	500 max.	②	A	double	Q
	03SS6-B2AHR-QBB	3A	450µA max.	100MΩ min.	500 max.	②	A	double	Q
	06SS6-B2AHR-QBB	6A	450µA max.	100MΩ min.	300 max.	②	A	double	Q
	10SS6-B2AHR-QBB	10A	450µA max.	100MΩ min.	300 max.	②	A	double	Q
	01SS6-B2AHR-QPB	1A	450µA max.	100MΩ min.	500 max.	②	B	double	Q
	03SS6-B2AHR-QPB	3A	450µA max.	100MΩ min.	500 max.	②	B	double	Q
	06SS6-B2AHR-QPB	6A	450µA max.	100MΩ min.	300 max.	②	B	double	Q
	10SS6-B2AHR-QPB	10A	450µA max.	100MΩ min.	300 max.	②	B	double	Q
	01SS6-B2AHR-QUB	1A	450µA max.	100MΩ min.	500 max.	②	C	double	Q
	03SS6-B2AHR-QUB	3A	450µA max.	100MΩ min.	500 max.	②	C	double	Q
	06SS6-B2AHR-QUB	6A	450µA max.	100MΩ min.	300 max.	②	C	double	Q
	10SS6-B2AHR-QUB	10A	450µA max.	100MΩ min.	300 max.	②	C	double	Q
	01SS6-B2AIR-QBB	1A	600µA max.	100MΩ min.	500 max.	②	A	double	Q
	03SS6-B2AIR-QBB	3A	600µA max.	100MΩ min.	500 max.	②	A	double	Q
	06SS6-B2AIR-QBB	6A	600µA max.	100MΩ min.	300 max.	②	A	double	Q
	10SS6-B2AIR-QBB	10A	600µA max.	100MΩ min.	300 max.	②	A	double	Q
	01SS6-B2AIR-QPB	1A	600µA max.	100MΩ min.	500 max.	②	B	double	Q
	03SS6-B2AIR-QPB	3A	600µA max.	100MΩ min.	500 max.	②	B	double	Q
	06SS6-B2AIR-QPB	6A	600µA max.	100MΩ min.	300 max.	②	B	double	Q
	10SS6-B2AIR-QPB	10A	600µA max.	100MΩ min.	300 max.	②	B	double	Q
	01SS6-B2ASR-QBB	1A	450µA max.	100MΩ min.	500 max.	②	A	double	Q
	03SS6-B2ASR-QBB	3A	450µA max.	100MΩ min.	500 max.	②	A	double	Q
	06SS6-B2ASR-QBB	6A	450µA max.	100MΩ min.	300 max.	②	A	double	Q
	10SS6-B2ASR-QBB	10A	450µA max.	100MΩ min.	300 max.	②	A	double	Q
	01SS6-B2ASR-QPB	1A	450µA max.	100MΩ min.	500 max.	②	B	double	Q
	03SS6-B2ASR-QPB	3A	450µA max.	100MΩ min.	500 max.	②	B	double	Q
	06SS6-B2ASR-QPB	6A	450µA max.	100MΩ min.	300 max.	②	B	double	Q
	10SS6-B2ASR-QPB	10A	450µA max.	100MΩ min.	300 max.	②	B	double	Q
	01SS6-B2ASR-QUB	1A	450µA max.	100MΩ min.	500 max.	②	C	double	Q
	03SS6-B2ASR-QUB	3A	450µA max.	100MΩ min.	500 max.	②	C	double	Q
06SS6-B2ASR-QUB	6A	450µA max.	100MΩ min.	300 max.	②	C	double	Q	
10SS6-B2ASR-QUB	10A	450µA max.	100MΩ min.	300 max.	②	C	double	Q	
High Performance	01SS6-B2BHR-QBB	1A	450µA max.	100MΩ min.	500 max.	④	A	double	Q
	03SS6-B2BHR-QBB	3A	450µA max.	100MΩ min.	500 max.	④	A	double	Q
	06SS6-B2BHR-QBB	6A	450µA max.	100MΩ min.	300 max.	④	A	double	Q
	10SS6-B2BHR-QBB	10A	450µA max.	100MΩ min.	300 max.	④	A	double	Q
	01SS6-B2BS-QBB	1A	450µA max.	100MΩ min.	500 max.	④	A	double	Q
	03SS6-B2BS-QBB	3A	450µA max.	100MΩ min.	500 max.	④	A	double	Q
	06SS6-B2BS-QBB	6A	450µA max.	100MΩ min.	300 max.	④	A	double	Q
	10SS6-B2BS-QBB	10A	450µA max.	100MΩ min.	300 max.	④	A	double	Q
Medical Compliant	01SS6A-B1ASR-QBB	1A	5µA max.	100MΩ min.	500 max.	⑤	A	single	Q
	03SS6A-B1ASR-QBB	3A	5µA max.	100MΩ min.	500 max.	⑤	A	single	Q
	06SS6A-B1ASR-QBB	6A	5µA max.	100MΩ min.	300 max.	⑤	A	single	Q
	10SS6A-B1ASR-QBB	10A	5µA max.	100MΩ min.	300 max.	⑤	A	single	Q
	01SS6A-B1BSR-QBB	1A	5µA max.	100MΩ min.	500 max.	⑤	A	single	Q
	03SS6A-B1BSR-QBB	3A	5µA max.	100MΩ min.	500 max.	⑤	A	single	Q
	06SS6A-B1BSR-QBB	6A	5µA max.	100MΩ min.	300 max.	⑤	A	single	Q
	10SS6A-B1BSR-QBB	10A	5µA max.	100MΩ min.	300 max.	⑤	A	single	Q
	01SS6A-B2ASR-QBB	1A	5µA max.	100MΩ min.	500 max.	⑥	A	double	Q
	03SS6A-B2ASR-QBB	3A	5µA max.	100MΩ min.	500 max.	⑥	A	double	Q
	06SS6A-B2ASR-QBB	6A	5µA max.	100MΩ min.	300 max.	⑥	A	double	Q
	10SS6A-B2ASR-QBB	10A	5µA max.	100MΩ min.	300 max.	⑥	A	double	Q
	01SS6A-B2BSR-QBB	1A	5µA max.	100MΩ min.	500 max.	⑥	A	double	Q
	03SS6A-B2BSR-QBB	3A	5µA max.	100MΩ min.	500 max.	⑥	A	double	Q
06SS6A-B2BSR-QBB	6A	5µA max.	100MΩ min.	300 max.	⑥	A	double	Q	
10SS6A-B2BSR-QBB	10A	5µA max.	100MΩ min.	300 max.	⑥	A	double	Q	

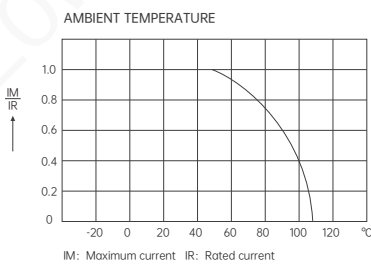
## Socket+Fuse Holder+Switch



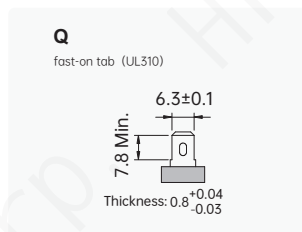
### Electrical Schematic



### Derating curve of current



### Output Terminal (mm)



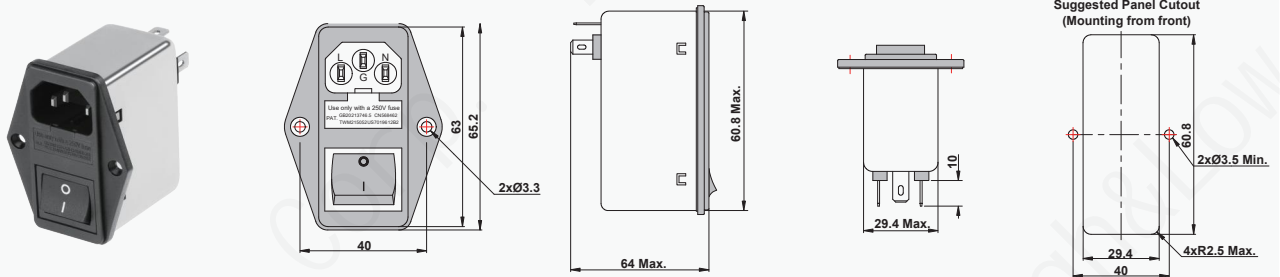


## Socket+Fuse Holder+Switch

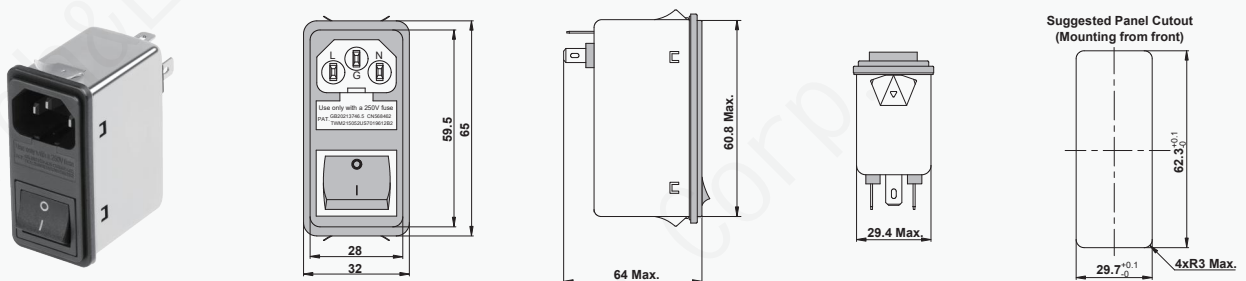


### Mechanical Drawing (mm)

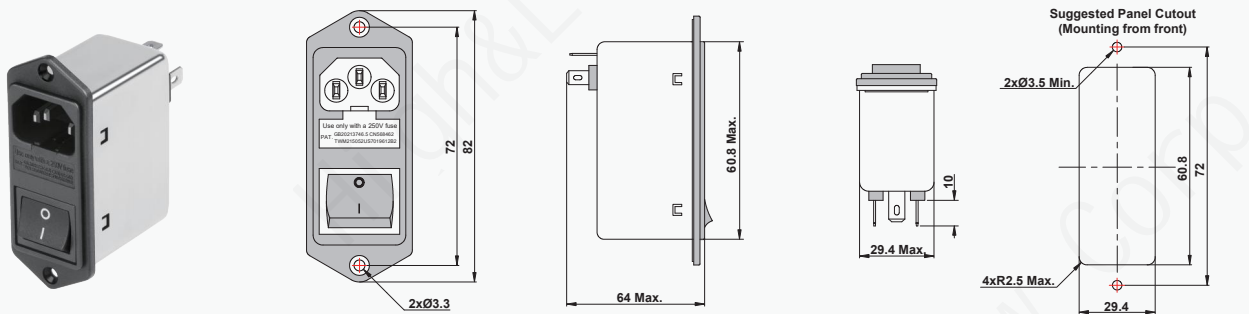
**A** • screw mounting with left & right ear



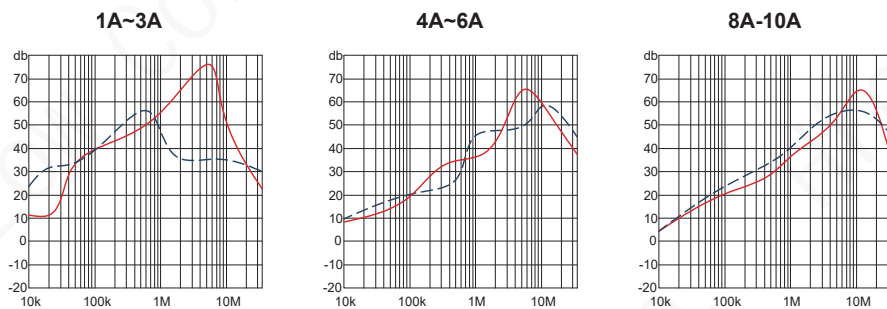
**B** • snap-in mounting with up & down spring



**C** • screw mounting with up & down ear



### Filter Attenuation Insertion loss (dB) in 50 ohm system CISPR 17 (for reference only)



Common mode / Asymmetric (L-G) ——— Differential mode / Symmetric (L-L) - - - - -

## General Purpose



### Features

- Standard conducted attenuation performance
- Single stage power line filter
- Current rating 1A~30A
- Various output connections
- Practical solution for general and medical devices

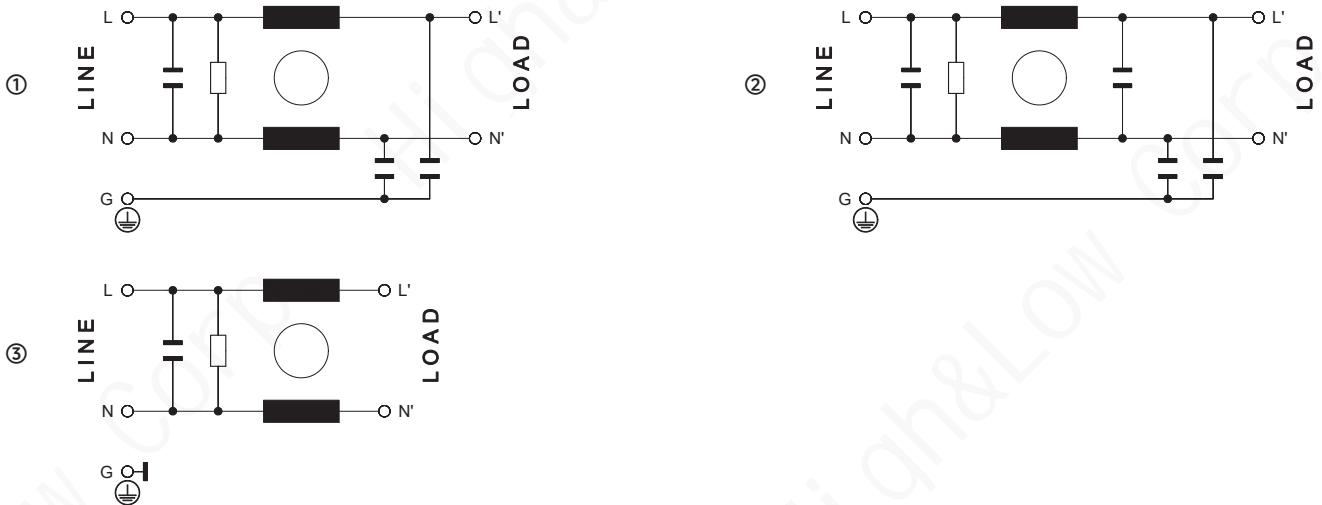
### Applications

- Single-phase power supplies
- Data storage
- Broadcast installations
- Network technology
- Medical device (not body-coupled)

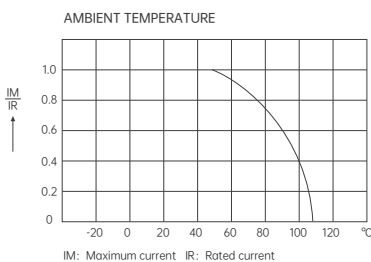
### Filter Selection Table

Performance	Filter Part No.	Rated Current (50°C)	Leakage Current (250VAC/50Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Electrical Schematic	Mechanical Drawing	Output Terminal
Standard	01SS4-1AA1-BR-Q	1A	600μA max.	100MΩ min.	300 max.	①	A	Q S
	03SS4-1AA1-BR-Q	3A	600μA max.	100MΩ min.	300 max.	①	A	Q S
	06SS4-1AA2-BR-Q	6A	600μA max.	100MΩ min.	100 max.	①	A	Q S
	10SS4-1AA2-BR-Q	10A	600μA max.	100MΩ min.	100 max.	①	A	Q S
	15SS4-1AA3-BR-Q	15A	600μA max.	100MΩ min.	100 max.	①	A	Q S
	20SS4-1AA3-BR-Q	20A	600μA max.	100MΩ min.	100 max.	①	A	Q S
	30SS4-1AA3-BR-Q	30A	600μA max.	100MΩ min.	100 max.	①	A	Q S
	01SS4-1BA2-R-Q	1A	600μA max.	100MΩ min.	300 max.	②	A	Q S
	03SS4-1BA3-R-Q	3A	600μA max.	100MΩ min.	300 max.	②	A	Q S
	06SS4-1BA3-R-Q	6A	600μA max.	100MΩ min.	100 max.	②	A	Q S
	10SS4-1BB1-R-Q	10A	600μA max.	100MΩ min.	100 max.	②	B	Q S
	15SS4-1BC2-R-Q	15A	600μA max.	100MΩ min.	100 max.	②	C	Q S
	20SS4-1BC2-R-Q	20A	600μA max.	100MΩ min.	100 max.	②	C	Q S
30SS4-1BG2-R-Q	30A	600μA max.	100MΩ min.	100 max.	②	D	Q S	
Medical Compliant	01SS4A-1AA1-BR-Q	1A	5μA max.	100MΩ min.	300 max.	③	A	Q S
	03SS4A-1AA1-BR-Q	3A	5μA max.	100MΩ min.	300 max.	③	A	Q S
	06SS4A-1AA2-BR-Q	6A	5μA max.	100MΩ min.	100 max.	③	A	Q S
	10SS4A-1AA2-BR-Q	10A	5μA max.	100MΩ min.	100 max.	③	A	Q S
	15SS4A-1AA3-BR-Q	15A	5μA max.	100MΩ min.	100 max.	③	A	Q S
	20SS4A-1AA3-BR-Q	20A	5μA max.	100MΩ min.	100 max.	③	A	Q S
30SS4A-1AA3-BR-Q	30A	5μA max.	100MΩ min.	100 max.	③	A	Q S	

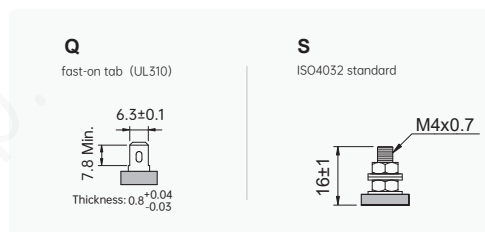
### Electrical Schematic



### Derating curve of current



### Output Terminal (mm)



General Purpose



Mechanical Drawing (mm)

**A**

Case	A1	A2	A3
A	17.5	30	30
B	27	21.2	28.1
C	44	43.5	52
D	24	32.5	46
E	26	35	48
F	54.1	54	61
G	64.5	64	71
H	9.5	10	10
I	2-Ø4.8	2-Ø5.3x6.3	

**B**

Case	B1
A	39.5
B	42.3
C	65.5
D	52.5
E	74.7
F	84.8
G	2-Ø4.8

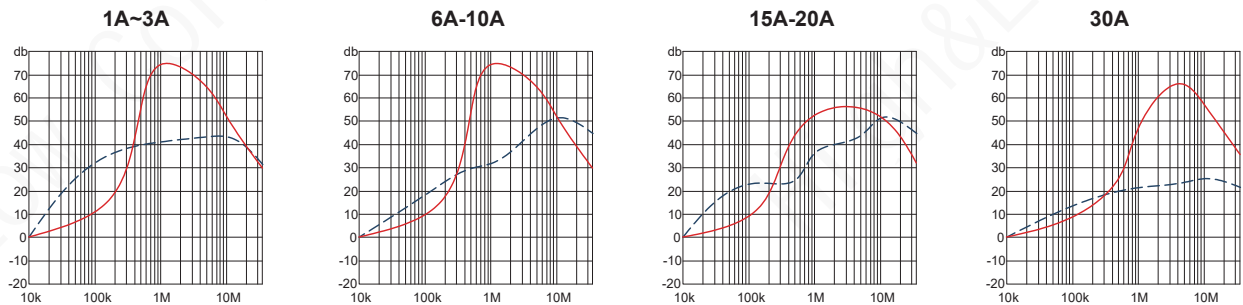
**C**

Case	C2
A	39.5
B	30
C	52.5
D	54
E	65.5
F	74.7
G	84.8
H	2-Ø4.8

**D**

Case	G1
A	38.6
B	48.5
C	83.6
D	51
E	79
F	98
G	96.5
H	105
I	4-Ø4x6.5

Filter Attenuation Insertion loss (dB) in 50 ohm system CISPR 17 (for reference only)



Common mode / Asymmetric (L-G) ——— Differential mode / Symmetric (L-L) - - - - -

## High Performance



### Features

- Superior conducted attenuation performance
- Double stage power line filter
- Current rating 1A~20A
- Various output connections
- Practical solution for general and medical devices

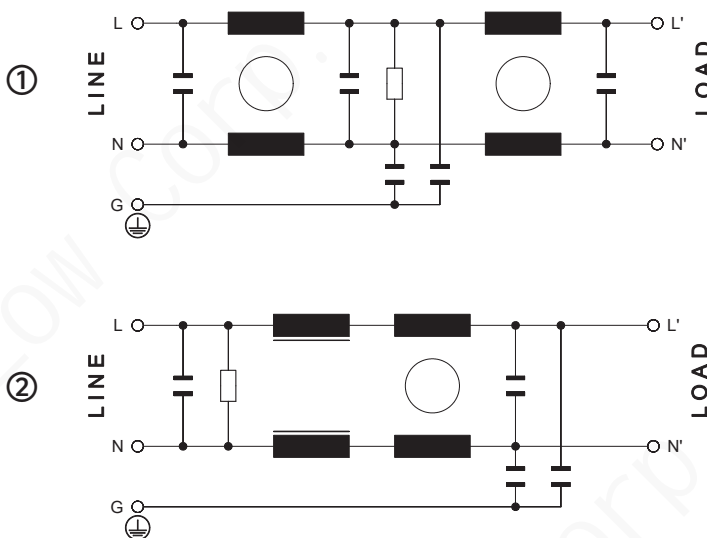
### Applications

- Small household & Living appliances
- Energy management system
- Food processing equipment
- Automatic data processing system
- Automation

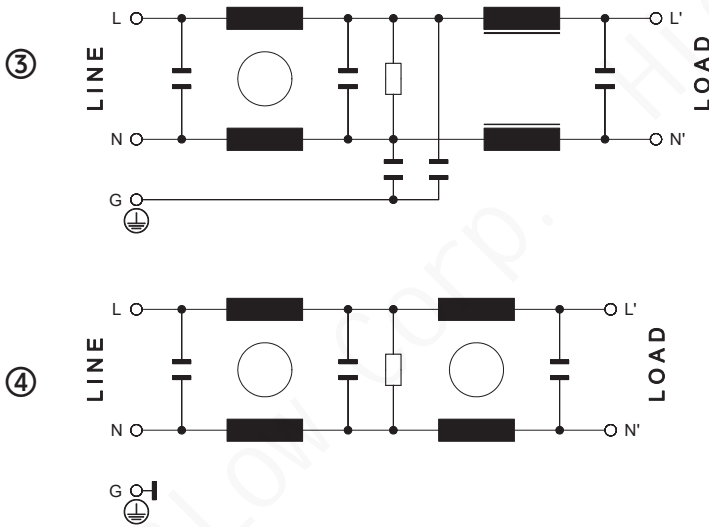
### Filter Selection Table

Performance	Filter Part No.	Rated Current (50°C)	Leakage Current (250VAC/50Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Electrical Schematic	Mechanical Drawing	Output Terminal	
High Performance	01SS4-2DC1-Q	1A	600μA max.	100MΩ min.	500 max.	①	A	Q	S
	03SS4-2DC1-Q	3A	600μA max.	100MΩ min.	500 max.	①	A	Q	S
	06SS4-2DC1-Q	6A	600μA max.	100MΩ min.	300 max.	①	A	Q	S
	10SS4-2DC2-Q	10A	600μA max.	100MΩ min.	300 max.	①	A	Q	S
	15SS4-2DC2-Q	15A	600μA max.	100MΩ min.	300 max.	①	A	Q	S
	20SS4-2DC2-Q	20A	600μA max.	100MΩ min.	300 max.	①	A	Q	S
	06SS4-2FC2-Q	6A	1000μA max.	100MΩ min.	500 max.	②	A	Q	S
	10SS4-2FC2-Q	10A	1000μA max.	100MΩ min.	300 max.	②	A	Q	S
	06SS4-2GC2-Q	6A	1000μA max.	100MΩ min.	300 max.	③	A	Q	S
	10SS4-2GC2-Q	10A	1000μA max.	100MΩ min.	300 max.	③	A	Q	S
Medical Compliant	01SS4A-2DC1-Q	1A	5μA max.	100MΩ min.	500 max.	④	A	Q	S
	03SS4A-2DC1-Q	3A	5μA max.	100MΩ min.	300 max.	④	A	Q	S
	06SS4A-2DC1-Q	6A	5μA max.	100MΩ min.	300 max.	④	A	Q	S
	10SS4A-2DC2-Q	10A	5μA max.	100MΩ min.	300 max.	④	A	Q	S
	15SS4A-2DC2-Q	15A	5μA max.	100MΩ min.	300 max.	④	A	Q	S
	20SS4A-2DC2-Q	20A	5μA max.	100MΩ min.	300 max.	④	A	Q	S

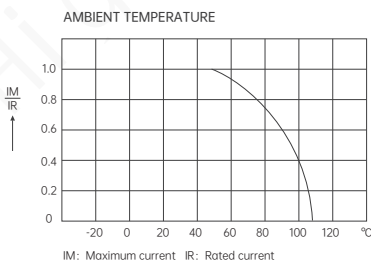
### Electrical Schematic



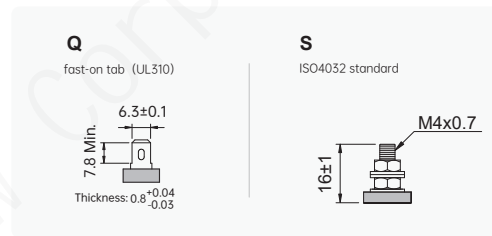
High Performance



Derating curve of current



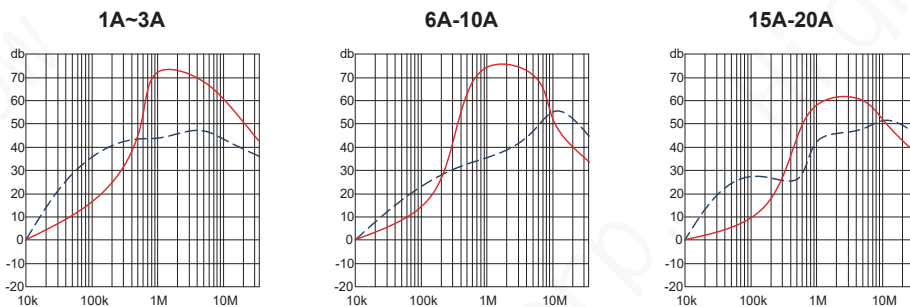
Output Terminal (mm)



Mechanical Drawing (mm)

Case	C1	C2
A	30	39.5
B	22.4	30
C	46	52.5
D	48	54
E	52	65.5
F	61	74.7
G	71	84.8
H	2-Ø5.3x6.3	2-Ø4.8

Filter Attenuation Insertion loss (dB) in 50 ohm system CISPR 17 (for reference only)



Common mode / Asymmetric (L-G) ——— Differential mode / Symmetric (L-L) - - - - -



## Excellent Performance



### Features

- Ultra-high attenuation performance
- Multiple stage power line filter
- Current rating 1A~20A
- Various components value
- Ideal for industrial equipment

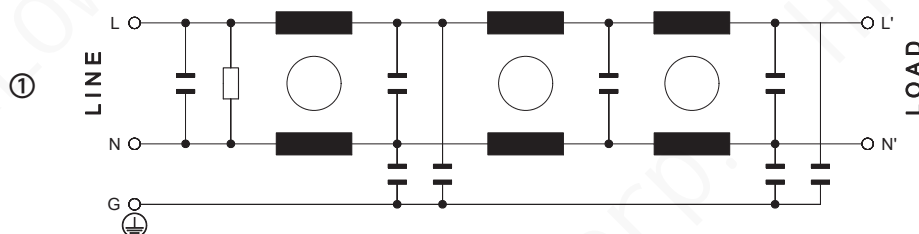
### Applications

- POS
- Medical aesthetic equipment
- High power office equipment
- Measuring instruments
- Electronic data processing system

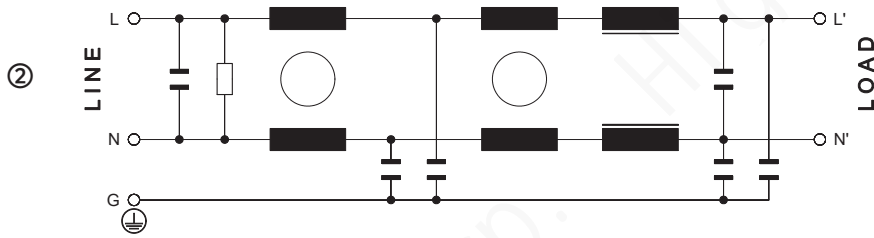
### Filter Selection Table

Filter Part No.	Rated Current (50°C)	Leakage Current (250VAC/50Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Electrical Schematic	Mechanical Drawing	Output Terminal	
03S4-3A1054729.0474C9	3A	2000μA max.	100MΩ min.	2000 max.	①	B	Q	S
06S4-3A1054727.0474C9	6A	2000μA max.	100MΩ min.	2000 max.	①	B	Q	S
10S4-3A1054725.0474C9	10A	2000μA max.	100MΩ min.	2000 max.	①	B	Q	S
15S4-3A1054723.0474C9	15A	2000μA max.	100MΩ min.	2000 max.	①	B	Q	S
20S4-3A1054722.0474C9	20A	2000μA max.	100MΩ min.	2000 max.	①	B	Q	S
03S4-3A15547215.0474C4	3A	2000μA max.	100MΩ min.	2000 max.	①	A	Q	S
06S4-3A15547212.0474C4	6A	2000μA max.	100MΩ min.	2000 max.	①	A	Q	S
10S4-3A15547210.0474C4	10A	2000μA max.	100MΩ min.	2000 max.	①	A	Q	S
15S4-3A1554726.0474C4	15A	2000μA max.	100MΩ min.	2000 max.	①	A	Q	S
20S4-3A1554724.0474C4	20A	2000μA max.	100MΩ min.	2000 max.	①	A	Q	S
03S4-3B2254729.0334C9	3A	2000μA max.	100MΩ min.	2000 max.	②	B	Q	S
06S4-3B2254727.0334C9	6A	2000μA max.	100MΩ min.	2000 max.	②	B	Q	S
10S4-3B2254725.0334C9	10A	2000μA max.	100MΩ min.	2000 max.	②	B	Q	S
15S4-3B2254723.0334C9	15A	2000μA max.	100MΩ min.	2000 max.	②	B	Q	S
20S4-3B2254722.0334C9	20A	2000μA max.	100MΩ min.	2000 max.	②	B	Q	S
03S4-3B33547215.0334C4	3A	2000μA max.	100MΩ min.	2000 max.	②	A	Q	S
06S4-3B33547212.0334C4	6A	2000μA max.	100MΩ min.	2000 max.	②	A	Q	S
10S4-3B33547210.0334C4	10A	2000μA max.	100MΩ min.	2000 max.	②	A	Q	S
15S4-3B3354726.0334C4	15A	2000μA max.	100MΩ min.	2000 max.	②	A	Q	S
20S4-3B3354724.0334C4	20A	2000μA max.	100MΩ min.	2000 max.	②	A	Q	S

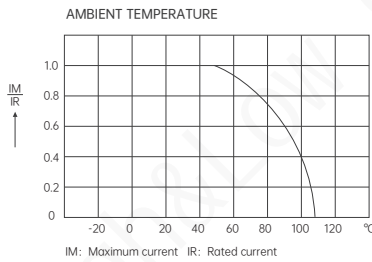
### Electrical Schematic



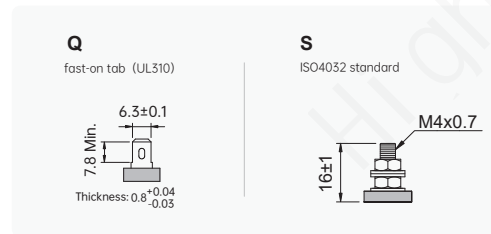
## Excellent Performance



### Derating curve of current

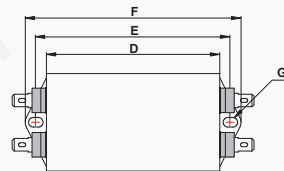
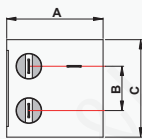


### Output Terminal (mm)



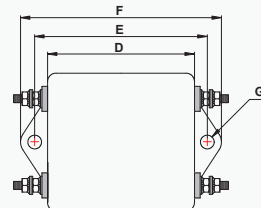
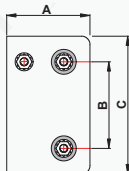
### Mechanical Drawing (mm)

A



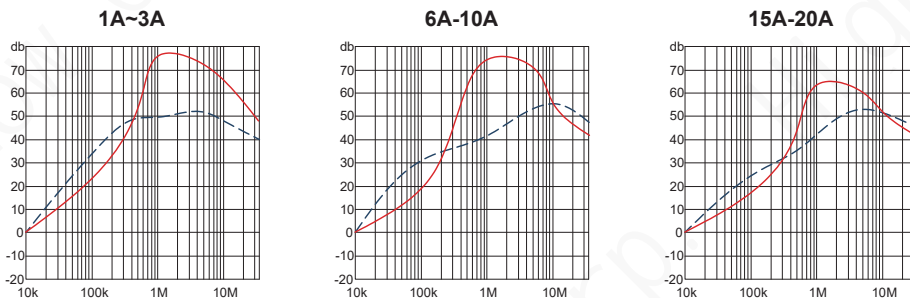
Case	C4
A	69.8
B	25
C	50.6
D	133.5
E	142.5
F	152.5
G	2-Ø5x6.35

B



Case	C9
A	50
B	23
C	52
D	90
E	101
F	112
G	2-Ø5x7.5

### Filter Attenuation Insertion loss (dB) in 50 ohm system CISPR 17 (for reference only)



Common mode / Asymmetric (L-G) ——— Differential mode / Symmetric (L-L) - - - - -

## General Purpose



### Features

- Excellent conducted attenuation performance
- Light weight metal housing design
- Current rating 7A~400A
- Extremely low leakage current values
- Touch-safe connections with hinged safety covers

### Marketing Applications

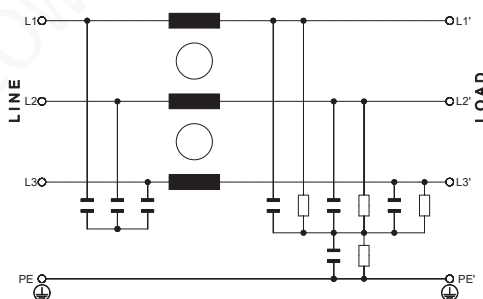
- HVAC system
- Motor driver
- Process control system
- Power management system
- Robotics

### Filter Selection Table

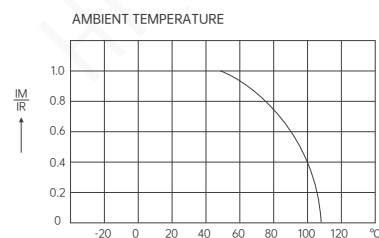
Filter PRJ No.	Rated Current (50°C)	Typical Drive Power Rating	Leakage Current (400VAC/50Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Power Loss (25°C/50Hz)
07SCB58	7A	4kW	33mA max.	100MΩ min.	200 max.	3.8W
08SCB58	8A	4.5kW	33mA max.	100MΩ min.	180 max.	4.0W
10SCB58	10A	5kW	33mA max.	100MΩ min.	150 max.	4.5W
16SCB58	16A	7.5kW	33mA max.	100MΩ min.	130 max.	6.1W
20SCB58	20A	10kW	33mA max.	100MΩ min.	120 max.	7.8W
25SCB58	25A	13kW	33mA max.	100MΩ min.	110 max.	10.5W
30SCB58	30A	15kW	33mA max.	100MΩ min.	100 max.	11.8W
36SCB58	36A	20kW	33mA max.	100MΩ min.	90 max.	13.8W
40SCB58	40A	21kW	33mA max.	100MΩ min.	80 max.	14.8W
42SCB58	42A	22kW	33mA max.	100MΩ min.	70 max.	15.7W
50SCB58	50A	28kW	33mA max.	100MΩ min.	60 max.	21.5W
55SCB58	55A	30kW	33mA max.	100MΩ min.	55 max.	25.9W
60SCB58	60A	32kW	33mA max.	100MΩ min.	50 max.	28.5W

- Calculated at rated current, 600 VAC and cos phi = 0.8. The exact value depends upon the efficiency of the drive, the motor and the entire application.
- Maximum leakage under normal operating conditions. Note: if two phases are interrupted, worst case leakage could reach 5.4 times higher levels.

### Electrical Schematic



### Derating curve of current

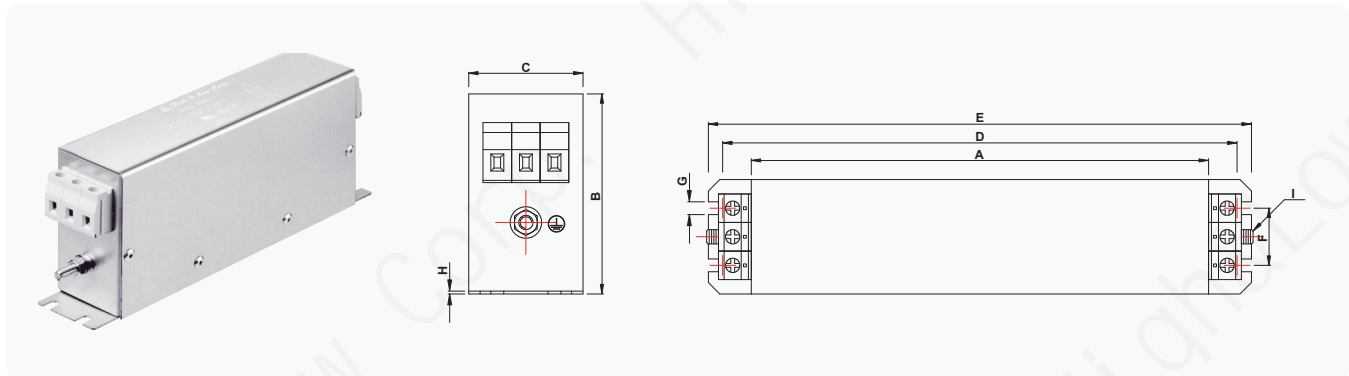


IM: Maximum current IR: Rated current

**General Purpose**



**Mechanical Drawing (mm)**



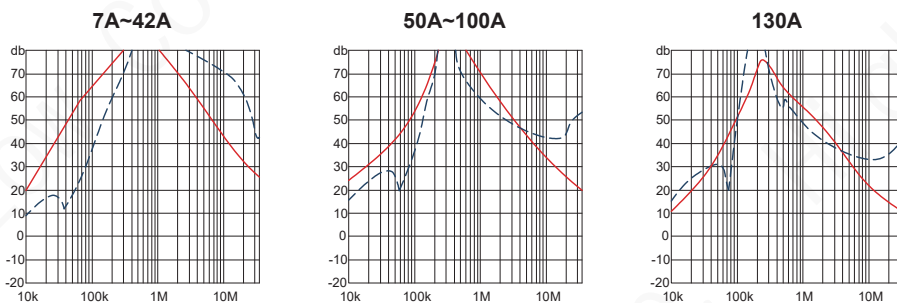
**Dimensions (mm)** Tolerances according to ISO 2768-m / EN 22768-m

Code	7-10A	16~20A	25~30A	36-42A	50-60A	75A	100A	130A
A	160	220	240	280	220	240	240	240
B	70	70	85	85	90	135	150	150
C	40	45	50	50	85	80	90	90
D	180	235	250	295	235	255	255	255
E	190	250	270	310	250	270	270	270
F	20	25	30	30	60	60	65	65
G	4.5	5.4	5.4	5.4	5.4	6.5	6.5	6.5
H	1	1	1	1	1	1.2	1.2	1.2
I	M5	M5	M5	M6	M6	M6	M10	M10

**Input/Output Terminal (mm)**

Terminal Cross Sections	7~16A	20~42A	50~75A	100~130A
Solid wire	10mm <sup>2</sup>	16mm <sup>2</sup>	35mm <sup>2</sup>	50mm <sup>2</sup>
Flex wire	6mm <sup>2</sup>	10mm <sup>2</sup>	25mm <sup>2</sup>	50mm <sup>2</sup>
AWG type wire	AWG 8	AWG 6	AWG 2	AWG 1/0
Recom. torque	1.5~1.8Nm	1.5~1.8Nm	4~4.5Nm	7~8Nm

**Filter Attenuation** Insertion loss (dB) in 50 ohm system CISPR 17 (for reference only)



Common mode / Asymmetric (L-G) ——— Differential mode / Symmetric (L-L) - - - - -

## High Performance



### Features

- Superior conducted attenuation performance
- Easy to install
- Current rating 10A~100A
- Compact and lightweight
- Touch-safe connections with hinged safety covers

### Marketing Applications

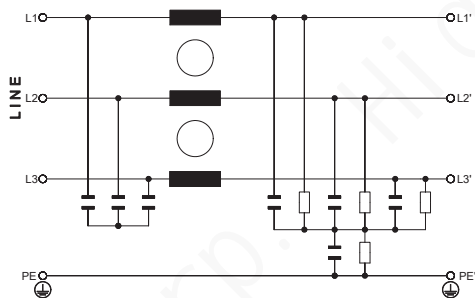
- Motor drive
- Process control system
- Power management system
- Robotics

### Filter Selection Table

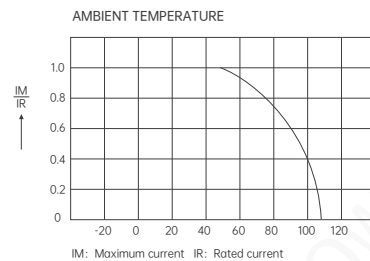
Filter PRJ No.	Rated Current (50°C)	Typical Drive Power Rating	Leakage Current (600VAC/50Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Power Loss (25°C/50Hz)
10SCB70H	10A	5.5kW	3.1mA max.	100MΩ min.	150 max.	2.4W
20SCB70H	20A	11kW	3.1mA max.	100MΩ min.	120 max.	4.1W
35SCB70H	35A	22kW	3.4mA max.	100MΩ min.	90 max.	6.8W
50SCB70H	50A	30kW	3.4mA max.	100MΩ min.	60 max.	12.8W
65SCB70H	65A	37kW	3.4mA max.	100MΩ min.	60 max.	13.5W
80SCB70H	80A	45kW	3.4mA max.	100MΩ min.	50 max.	13.5W
100SCB70H	100A	55kW	3.4mA max.	100MΩ min.	40 max.	17.1W

- Calculated at rated current, 600 VAC and cos phi = 0.8. The exact value depends upon the efficiency of the drive, the motor and the entire application.
- Standardized calculated leakage current acc. IEC60939 under normal operating conditions.

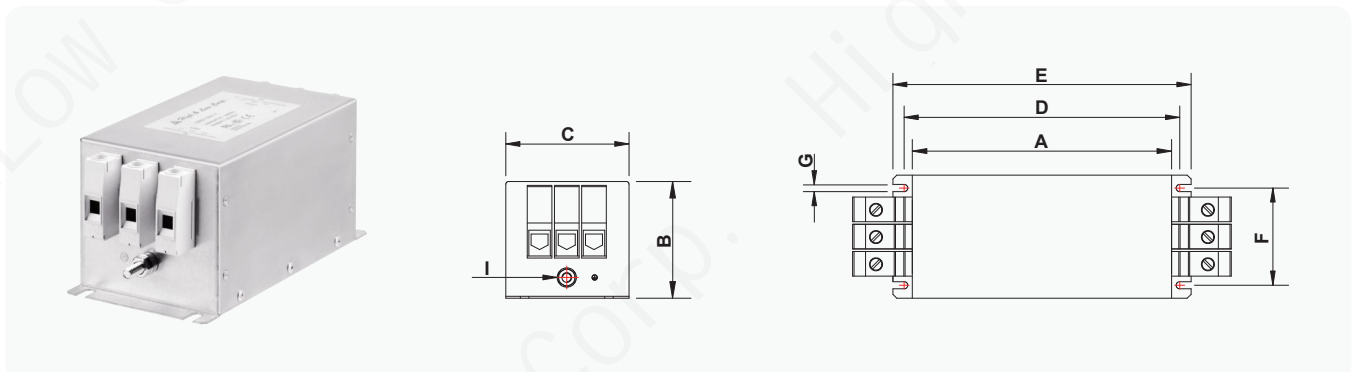
### Electrical Schematic



### Derating curve of current



### Mechanical Drawing (mm)



## High Performance

**Dimensions** (mm) Tolerances according to ISO 2768-m / EN 22768-m

Code	10~20A	35A	50~65A	80A	100A
A	120	130	140	170	220
B	58	68	80	90	90
C	58	70	85	95	95
D	132.5	142.5	152.5	182.5	212.5
E	150	160	170	200	230
F	42	50	65	75	75
G	4.5	5.5	5.5	5.5	5.5
H	1	1	1	1.5	1.5
I	M4	M5	M6	M8	M8

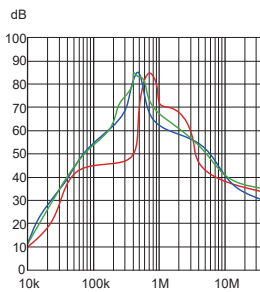
## Input/Output Terminal (mm)

Terminal Cross Sections	10~20A	35A	50~65A	80~100A
Solid wire	10mm <sup>2</sup>	16mm <sup>2</sup>	35mm <sup>2</sup>	50mm <sup>2</sup>
Flex wire	6mm <sup>2</sup>	10mm <sup>2</sup>	25mm <sup>2</sup>	50mm <sup>2</sup>
AWG type wire	AWG 8	AWG 6	AWG 2	AWG 1/0
Recom. torque	1~1.2Nm	1~1.2Nm	1.8~2Nm	2.3~2.5Nm

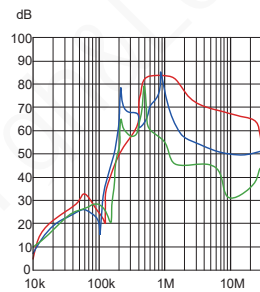
## Filter Attenuation

Insertion loss (dB) in 50 system CISPR 17

### Common mode / Asymmetrical (P-E)



### Differential mode / Symmetrical (P-P)



10A~20A ————  
35A~65A ————  
80A~100A ————





## High Performance

### Features

- Excellent conducted attenuation performance
- Easy to install
- Current rating 150A~400A
- Compact and lightweight
- With fast-on connections

### Marketing Applications

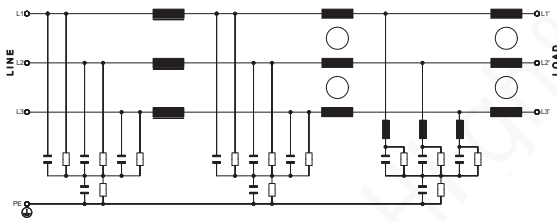
- Motor drive
- Process control system
- Power management system
- Robotics

### Filter Selection Table

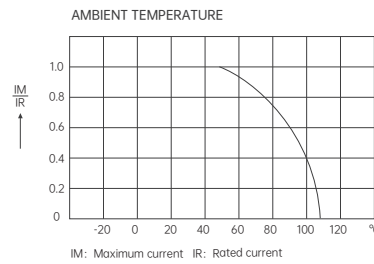
Filter PRJ No.	Rated Current (50°C)	Typical Drive Power Rating	Leakage Current (600VAC/50Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Power Loss (25°C/50Hz)
150SCB70HQ	150A	75kW	6.9mA max.	100MΩ min.	50 max.	7.5W
200SCB70HQ	200A	110kW	6.9mA max.	100MΩ min.	50 max.	13.2W
250SCB70HQ	250A	132kW	6.9mA max.	100MΩ min.	50 max.	20.6W
320SCB70HQ	320A	160kW	6.9mA max.	100MΩ min.	50 max.	12.2W
400SCB70HQ	400A	220kW	6.9mA max.	100MΩ min.	50 max.	19.2W

- Calculated at rated current, 600 VAC and cos phi = 0.8. The exact value depends upon the efficiency of the drive, the motor and the entire application.
- Standardized calculated leakage current acc. IEC60939 under normal operating conditions.

### Electrical Schematic



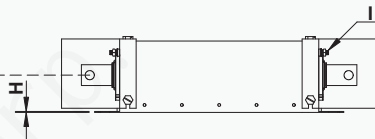
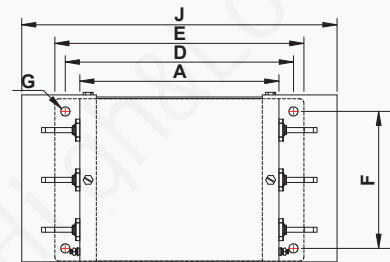
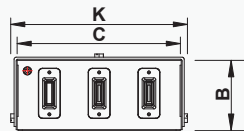
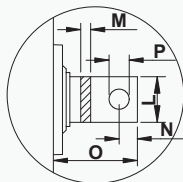
### Derating curve of current



### Mechanical Drawing (mm)



Magnifying view



**High Performance**

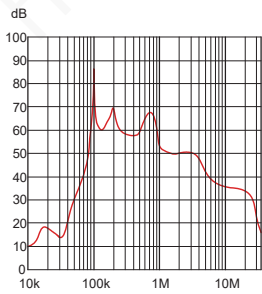


**Dimensions** (mm) Tolerances according to ISO 2768-m / EN 22768-m

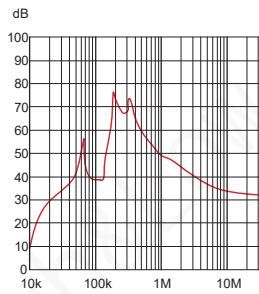
Code	150~250A	350~400A
A	240	240
B	86	86
C	200	200
D	275	275
E	300	300
F	165	165
G	Ø11	Ø11
H	2	2
I	M10	M10
J	380	380
K	211	211
L	20	25
M	3	6
N	10	12.5
O	37	37
P	Ø9	Ø11

**Filter Attenuation** Insertion loss (dB) in 50 system CISPR 17

**Common mode / Asymmetrical (P-E)**



**Differential mode / Symmetrical (P-P)**



150A~400A ———



**Features**

- Superior attenuation of common-mode noise
- Single stage circuit is ideal for general applications
- Current rating 7A~30A
- Touch-safe connections with hinged safety covers
- Light weight plastic housing design

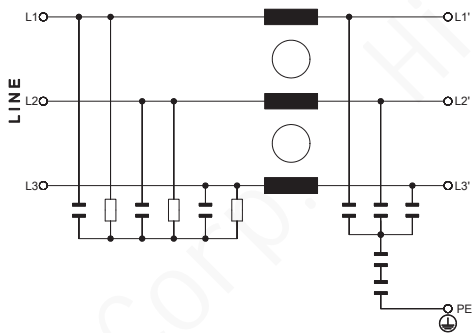
**Applications**

- Electric motor driven systems
- Frequency inverters
- Power management system
- Servo motor
- High power office equipment

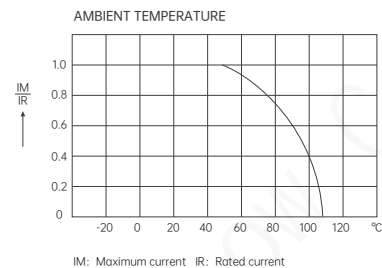
**Filter Selection Table**

Performance	Filter PRJ No.	Rated Current (50°C)	Leakage Current (500V/60Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Operating temperature	Mechanical Drawing
Best Frequency (150kHz~1MHz)	07CTAC	7A	5mA max.	100MΩ min.	150 max.	-40° ~ +100°	Chassis mounting
	08CTAC	8A	5mA max.	100MΩ min.	150 max.	-40° ~ +100°	Chassis mounting
	10CTAC	10A	5mA max.	100MΩ min.	50 max.	-40° ~ +100°	Chassis mounting
	16CTAC	16A	5mA max.	100MΩ min.	30 max.	-40° ~ +100°	Chassis mounting
	20CTAC	20A	5mA max.	100MΩ min.	20 max.	-40° ~ +100°	Chassis mounting
	25CTAC	25A	5mA max.	100MΩ min.	15 max.	-40° ~ +100°	Chassis mounting
	30CTAC	30A	5mA max.	100MΩ min.	10 max.	-40° ~ +100°	Chassis mounting
	07CTACD	7A	5mA max.	100MΩ min.	150 max.	-40° ~ +100°	DIN-rail mounting
	08CTACD	8A	5mA max.	100MΩ min.	150 max.	-40° ~ +100°	DIN-rail mounting
	10CTACD	10A	5mA max.	100MΩ min.	50 max.	-40° ~ +100°	DIN-rail mounting
	16CTACD	16A	5mA max.	100MΩ min.	30 max.	-40° ~ +100°	DIN-rail mounting
	20CTACD	20A	5mA max.	100MΩ min.	20 max.	-40° ~ +100°	DIN-rail mounting
	25CTACD	25A	5mA max.	100MΩ min.	15 max.	-40° ~ +100°	DIN-rail mounting
30CTACD	30A	5mA max.	100MΩ min.	10 max.	-40° ~ +100°	DIN-rail mounting	
Best Frequency (10kHz~1MHz)	07CTAH	07A	5mA max.	100MΩ min.	150 max.	-40° ~ +100°	Chassis mounting
	08CTAH	08A	5mA max.	100MΩ min.	150 max.	-40° ~ +100°	Chassis mounting
	10CTAH	10A	5mA max.	100MΩ min.	50 max.	-40° ~ +100°	Chassis mounting
	16CTAH	16A	5mA max.	100MΩ min.	30 max.	-40° ~ +100°	Chassis mounting
	20CTAH	20A	5mA max.	100MΩ min.	20 max.	-40° ~ +100°	Chassis mounting
	25CTAH	25A	5mA max.	100MΩ min.	15 max.	-40° ~ +100°	Chassis mounting
	30CTAH	30A	5mA max.	100MΩ min.	10 max.	-40° ~ +100°	Chassis mounting
	07CTAHD	07A	5mA max.	100MΩ min.	150 max.	-40° ~ +100°	DIN-rail mounting
	08CTAHD	08A	5mA max.	100MΩ min.	150 max.	-40° ~ +100°	DIN-rail mounting
	10CTAHD	10A	5mA max.	100MΩ min.	50 max.	-40° ~ +100°	DIN-rail mounting
	16CTAHD	16A	5mA max.	100MΩ min.	30 max.	-40° ~ +100°	DIN-rail mounting
	20CTAHD	20A	5mA max.	100MΩ min.	20 max.	-40° ~ +100°	DIN-rail mounting
	25CTAHD	25A	5mA max.	100MΩ min.	15 max.	-40° ~ +100°	DIN-rail mounting
30CTAHD	30A	5mA max.	100MΩ min.	10 max.	-40° ~ +100°	DIN-rail mounting	

**Electrical Schematic**

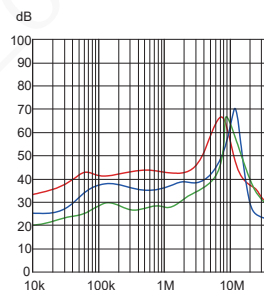


**Derating curve of current**

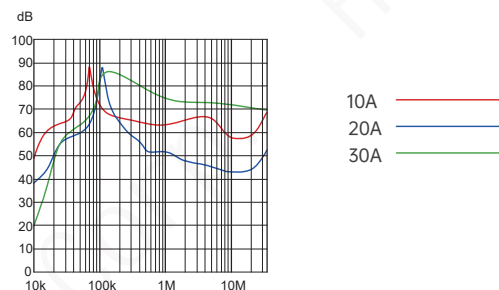


**Filter Attenuation** Insertion loss (dB) in 50 system CISPR 17

**Common mode / Asymmetrical (P-E)**

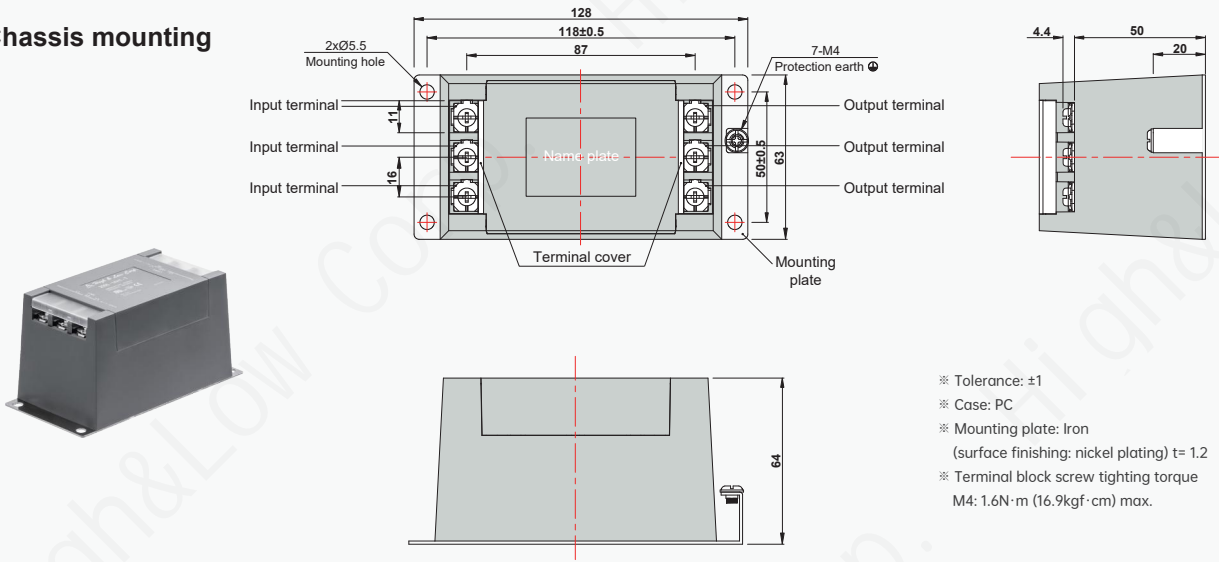


**Differential mode / Symmetrical (P-P)**



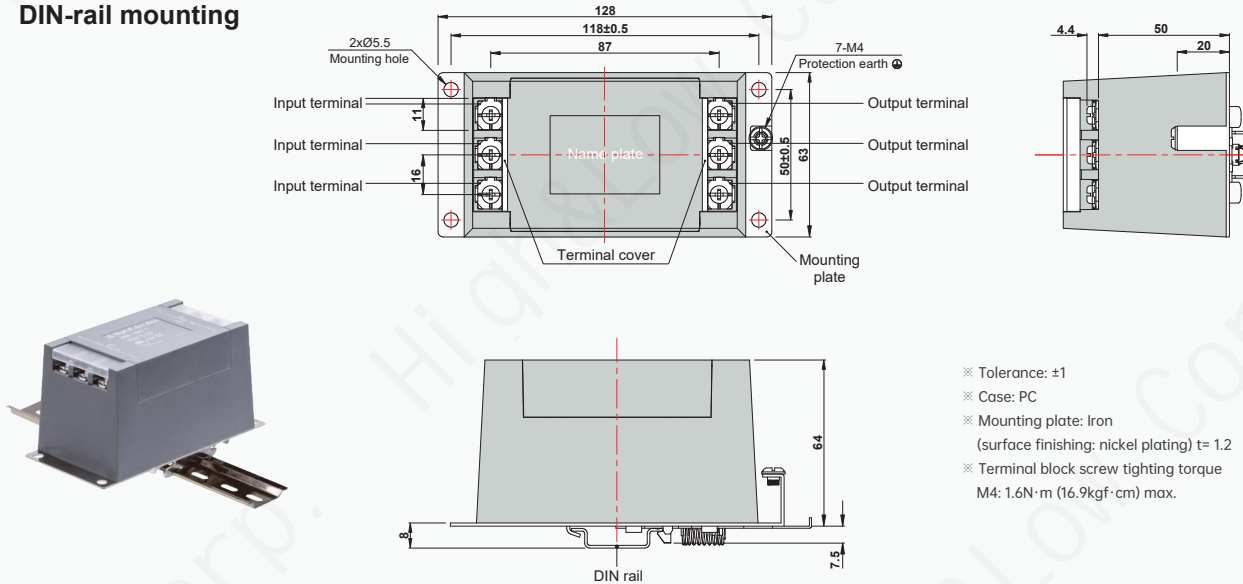
Mechanical Drawing (mm)

Chassis mounting



- ※ Tolerance: ±1
- ※ Case: PC
- ※ Mounting plate: Iron (surface finishing: nickel plating) t= 1.2
- ※ Terminal block screw tightening torque M4: 1.6N·m (16.9kgf·cm) max.

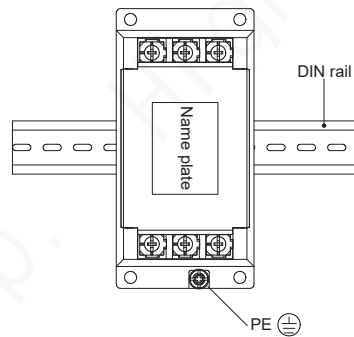
DIN-rail mounting

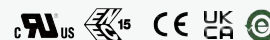


- ※ Tolerance: ±1
- ※ Case: PC
- ※ Mounting plate: Iron (surface finishing: nickel plating) t= 1.2
- ※ Terminal block screw tightening torque M4: 1.6N·m (16.9kgf·cm) max.

Note when installing the EMI filter on a DIN rail:

When the EMI filter is grounded through the DIN rail, the proper noise attenuation may not be achieved. Be sure to connect the protection earth (PE) of the EMI filter body to the earth.





## General Purpose

### Features

- Very low leakage current values
- Excellent attenuation performance in grounding
- Current rating 7A~400A
- Extremely compact and lightweight design
- Alternative performance grade

### Marketing Applications

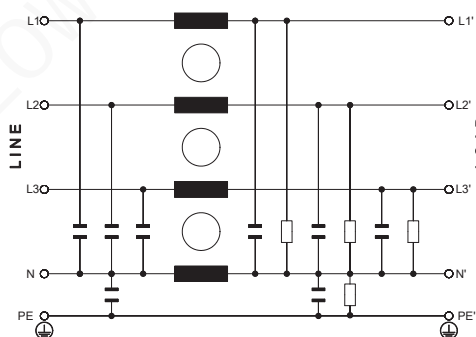
- Three-phase four-wire networks
- Automation
- Power distribution box
- Mainframe operation system
- UPS

### Filter Selection Table

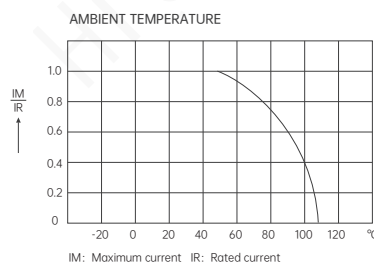
Filter PRJ No.	Rated Current (50°C)	Typical Drive Power Rating	Leakage Current (480VAC/50Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Power Loss (25°C/50Hz)
07SCB56H	7A	3.7kW	<1mA	100MΩ min.	200 max.	2.5W
08SCB56H	8A	4kW	<1mA	100MΩ min.	180 max.	2.7W
10SCB56H	10A	5.5kW	<1mA	100MΩ min.	150 max.	3.5W
16SCB56H	16A	7.5kW	<1mA	100MΩ min.	130 max.	5W
20SCB56H	20A	8.5kW	<1mA	100MΩ min.	120 max.	6.5W
25SCB56H	15A	10kW	<1mA	100MΩ min.	110 max.	9.8W
30SCB56H	30A	12.5kW	<1mA	100MΩ min.	100 max.	10.6W
36SCB56H	36A	15kW	<1mA	100MΩ min.	90 max.	11.3W
40SCB56H	40A	17kW	<1mA	100MΩ min.	80 max.	12.7W
42SCB56H	42A	18kW	<1mA	100MΩ min.	70 max.	13.2W
50SCB56H	50A	19kW	<1mA	100MΩ min.	60 max.	14.3W
55SCB56H	55A	20kW	<1mA	100MΩ min.	50 max.	15.5W
60SCB56H	60A	21kW	<1mA	100MΩ min.	50 max.	16.8W

• Maximum leakage under normal operating conditions, based on the assumption that all three phases and the neutral conductor are connected to the supply and the consumer. In this case, the current will mainly return through the neutral line, not as ear th leakage.

### Electrical Schematic

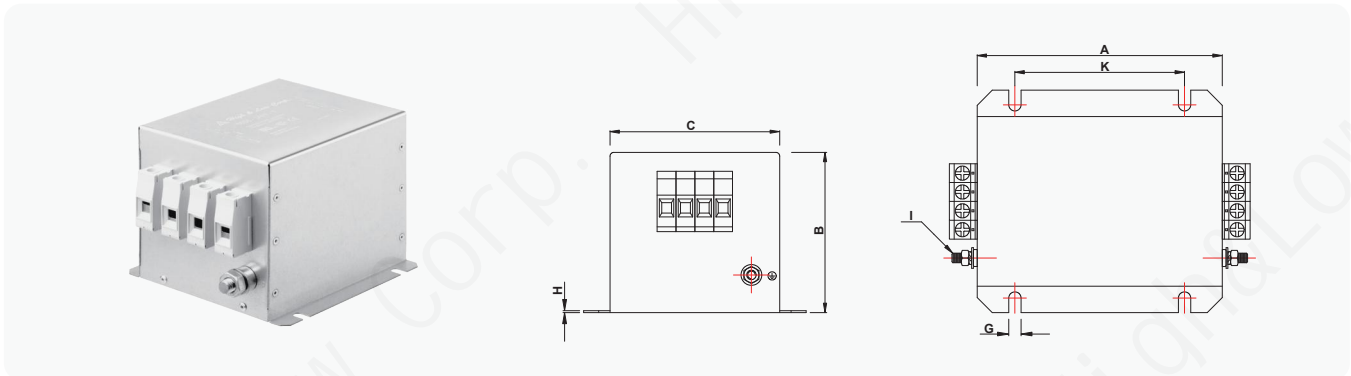


### Derating curve of current



## General Purpose

### Mechanical Drawing (mm)



### Dimensions (mm)

Tolerances according to ISO 2768-m / EN 22768-m

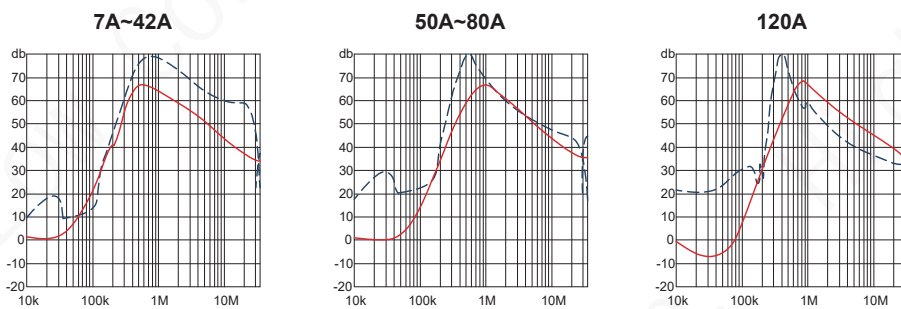
Code	7~16A	20~42A	50~64A	80A	120A
A	110	130	140	170	210
B	70	85	115	125	125
C	82	90	115	135	140
D	94.5	102.5	127.5	147.5	153.5
E	110	118	143	163	170
G	6.5	6.5	6.5	6.5	6.5
H	1	1	1.2	1.2	1.2
I	M6	M6	M10	M10	M10
k	70	90	100	120	160

### Input/Output Terminal (mm)

Terminal Cross Sections	7~16A	20A~42A	50~64A	80~120A
Solid wire	6mm <sup>2</sup>	16mm <sup>2</sup>	35mm <sup>2</sup>	50mm <sup>2</sup>
Flex wire	4mm <sup>2</sup>	10mm <sup>2</sup>	25mm <sup>2</sup>	50mm <sup>2</sup>
AWG type wire	AWG 10	AWG 6	AWG 2	AWG 1/0
Recom. torque	0.6~0.8Nm	1.5~1.8Nm	4~4.5Nm	7~8Nm

### Filter Attenuation

Insertion loss (dB) in 50 ohm system CISPR 17 (for reference only)



Common mode / Asymmetric (L-G) ——— Differential mode / Symmetric (L-L) - - - - -





## High Performance

### Features

- Exceptional attenuation
- Current rating 8~400A
- 2-stage circuit is ideal for noisy environments
- Suitable for devices require minimal mounting space
- Alternative performance grade
- Optimized for industrial machinery

### Marketing Applications

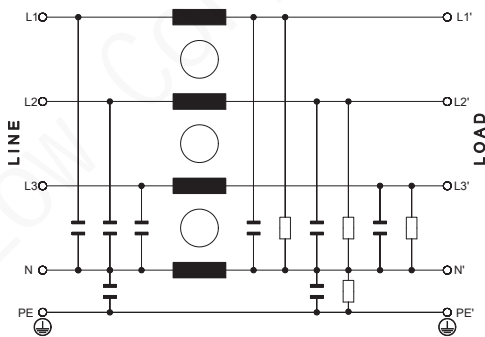
- Automation & Process Control
- High power office equipment
- Renewable energy applications

### Filter Selection Table

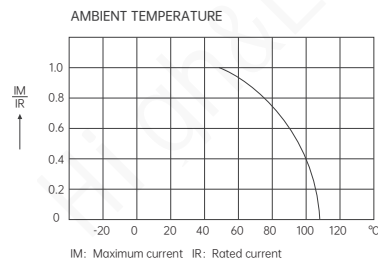
Filter PRJ No.	Rated Current (50°C)	Leakage Current (600VAC/50Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Power Loss (25°C/50Hz)	Mechanical Drawing
08SCB80H	8A	10.7mA max.	100MΩ min.	200 max.	2.7W	A
16SCB80H	16A	10.7mA max.	100MΩ min.	130 max.	6W	A
25SCB80H	25A	10.7mA max.	100MΩ min.	110 max.	11.6W	A
36SCB80H	36A	10.7mA max.	100MΩ min.	90 max.	14.8W	A
64SCB80H	64A	10.7mA max.	100MΩ min.	50 max.	18.4W	A
80SCB80H	80A	10.7mA max.	100MΩ min.	50 max.	18.9W	A
120SCB80H	120A	10.7mA max.	100MΩ min.	50 max.	28.5W	A
160SCB80H	160A	10.7mA max.	100MΩ min.	50 max.	30.7W	A
200SCB80H	200A	10.7mA max.	100MΩ min.	50 max.	46.8W	A
300SCB80HQ	300A	42.1mA max.	100MΩ min.	50 max.	20.3W	B
400SCB80HQ	400A	42.1mA max.	100MΩ min.	50 max.	36W	B

• Standardized calculated leakage current acc. IEC60939 under normal operating conditions.

### Electrical Schematic



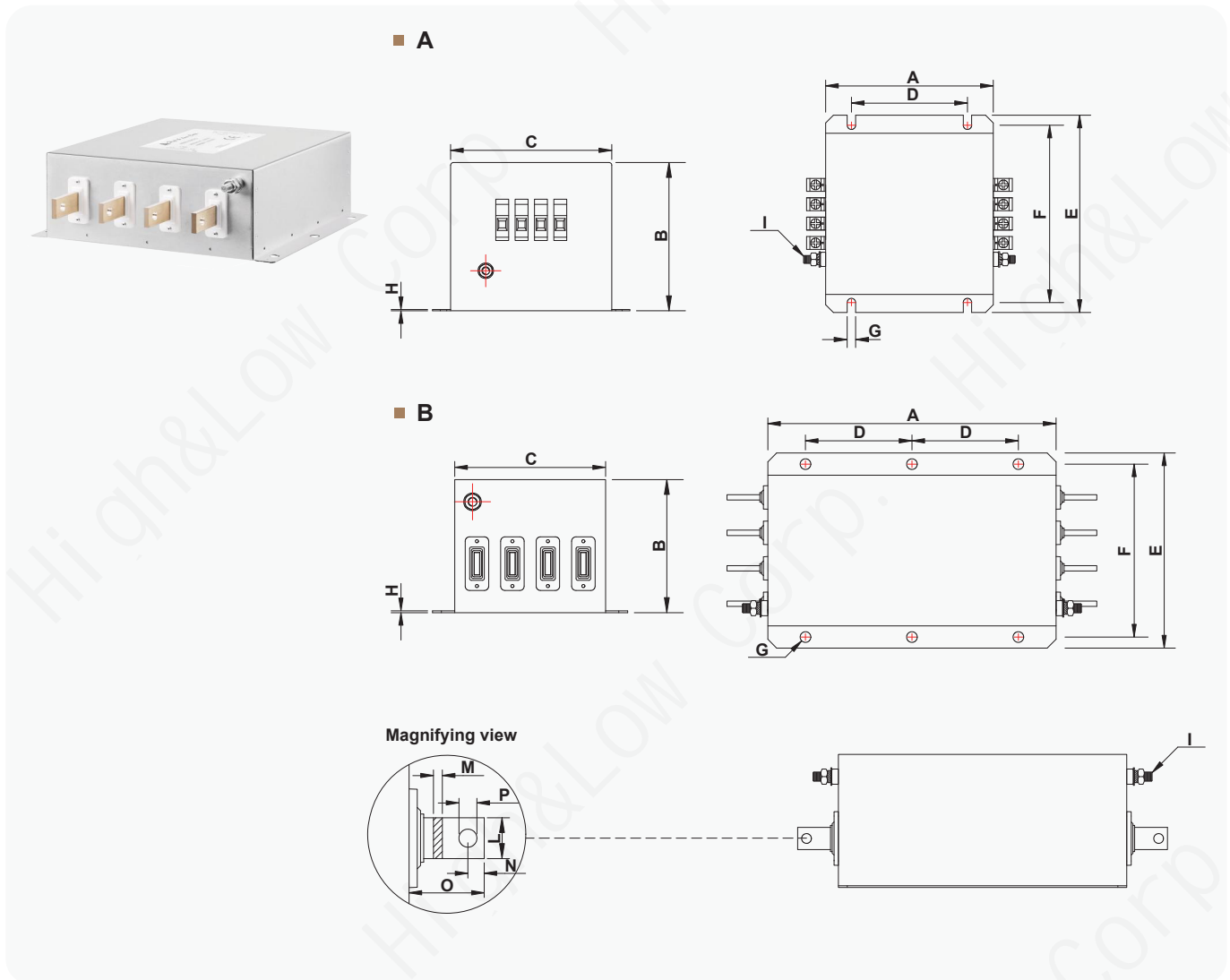
### Derating curve of current



**High Performance**



**Mechanical Drawing (mm)**



**Dimensions (mm)**

Tolerances according to ISO 2768-m / EN 22768-m

Code	8~16A	25~36A	64A	80A	120A	160~200A	300~400A
A	120	130	160	230	250	280	325
B	80	115	125	125	140	170	150
C	115	125	125	135	140	140	170
D	80	90	100	120	200	230	120
E	143	153	153	163	170	220	220
F	127.5	137.5	137.5	147.5	153.5	153.5	195
G	6.5	6.5	6.5	6.5	6.5	6.5	Ø12
H	1	1	1.2	1.2	1.2	1.2	1.5
I	M6	M6	M10	M10	M10	M10	M10
L	-	-	-	-	-	25	25
M	-	-	-	-	-	6	6
N	-	-	-	-	-	15	15
O	-	-	-	-	-	58	58
P	-	-	-	-	-	Ø10.5	Ø10.5

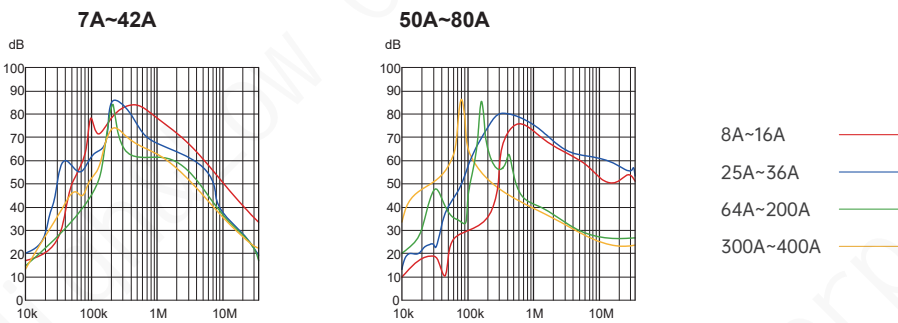
## High Performance

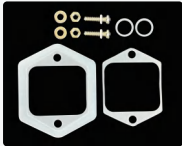


### Input/Output Terminal (mm)

Terminal Cross Sections	8~16A 	25A~36A 	64A 	80~120A 	160~200A 
Solid wire	10mm <sup>2</sup>	16mm <sup>2</sup>	35mm <sup>2</sup>	50mm <sup>2</sup>	95mm <sup>2</sup>
Flex wire	6mm <sup>2</sup>	10mm <sup>2</sup>	25mm <sup>2</sup>	50mm <sup>2</sup>	95mm <sup>2</sup>
AWG type wire	AWG 8	AWG 6	AWG 2	AWG 1/0	AWG 4/0
Recom. torque	1~1.2Nm	1~1.2Nm	1.8~2Nm	2.3~2.5Nm	17~20Nm

### Filter Attenuation Insertion loss (dB) in 50 ohm system CISPR 17 (for reference only)





### Waterproof Accessories

Power Entry Module Filter



### IEC Lock

With IEC60320-C14/C20 socket screw fixed filter  
Socket + switch module filter  
Socket + fuse holder module filter



### Ceramic pipe current fuse

With 5x20mm fuse holder filter



### Power Cord

Various power line plugs for international usage  
Fits any H&L IEC60320-C14/C20 inlet



### Insulation Boots

Protection from electrical shock  
Conforms to UL 94-V1  
Protects against ingress of dust and moisture  
Fits most ranges of Schaffner IEC Inlet Filters



### Transparent protective covers

Protection for the operator or inspector from accidental touching of live conductors.  
2 Covers in the box, one for input, one for output.  
Flameresistant material  
For High-power product.



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