


PRODUCT BROCHURE

Plastic Chassis C Type

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

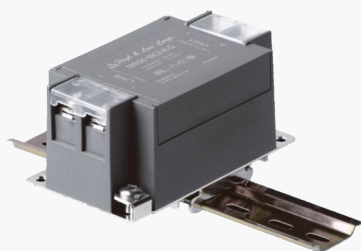
High& Low provide high quality products and excellent service to satisfy our customer.



CNAC	01
CNAH	03
CNAP	05
CNAM	07



CEAC	09
CEAP	11
CEAM	13



CNBC	15
CNBM	17



CNBH	19
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Features

- Superior attenuation of common-mode noise
- Light weight plastic housing design
- Current rating 1A~30A
- Integrated nut is in hinged cover for reliable ring lug wiring
- Suitable for generally industrial applicaces

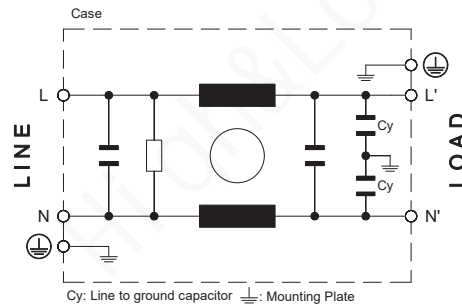
Applications

- UPS
- Automated LED sorting machine
- Treadmill
- Building automation
- Automatic data processing system

Filter Selection Table

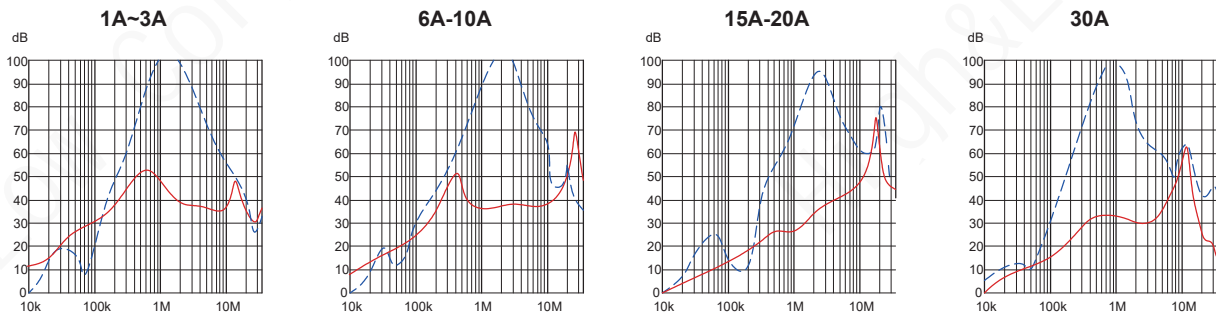
Performance	Filter PRJ No.	Rated Current (50°C)	Leakage Current (250VAC/60Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Operating temperature	Mechanical Drawing
Best Frequency (150kHz~1MHz)	01CNAC472	1A	1mA max.	100MΩ min.	180 max.	-40° ~ +100°	Chassis mounting
	03CNAC472	3A	1mA max.	100MΩ min.	180 max.	-40° ~ +100°	Chassis mounting
	06CNAC472	6A	1mA max.	100MΩ min.	110 max.	-40° ~ +100°	Chassis mounting
	10CNAC472	10A	1mA max.	100MΩ min.	40 max.	-40° ~ +100°	Chassis mounting
	15CNAC472	15A	1mA max.	100MΩ min.	20 max.	-40° ~ +100°	Chassis mounting
	20CNAC472	20A	1mA max.	100MΩ min.	10 max.	-40° ~ +100°	Chassis mounting
	30CNAC472	30A	1mA max.	100MΩ min.	6 max.	-40° ~ +100°	Chassis mounting
	01CNAC472D	1A	1mA max.	100MΩ min.	180 max.	-40° ~ +100°	DIN-rail mounting
	03CNAC472D	3A	1mA max.	100MΩ min.	180 max.	-40° ~ +100°	DIN-rail mounting
	06CNAC472D	6A	1mA max.	100MΩ min.	110 max.	-40° ~ +100°	DIN-rail mounting
	10CNAC472D	10A	1mA max.	100MΩ min.	40 max.	-40° ~ +100°	DIN-rail mounting
	15CNAC472D	15A	1mA max.	100MΩ min.	20 max.	-40° ~ +100°	DIN-rail mounting
	20CNAC472D	20A	1mA max.	100MΩ min.	10 max.	-40° ~ +100°	DIN-rail mounting
	30CNAC472D	30A	1mA max.	100MΩ min.	6 max.	-40° ~ +100°	DIN-rail mounting

Electrical Schematic



Filter Attenuation

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

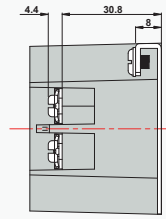
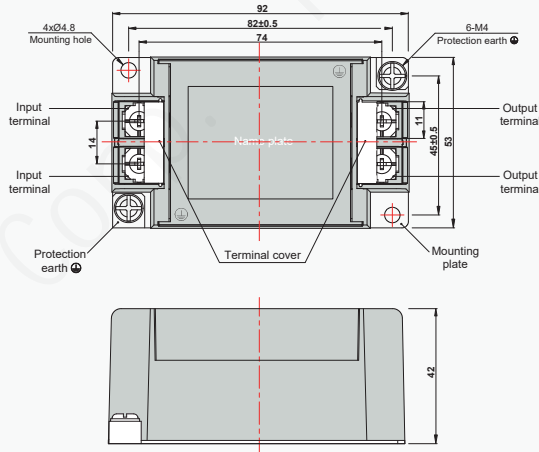


Common mode / Asymmetric (L-G) ——— Differential mode / Symmetric (L-L) - - - - -



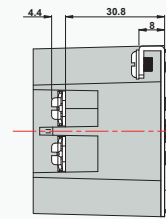
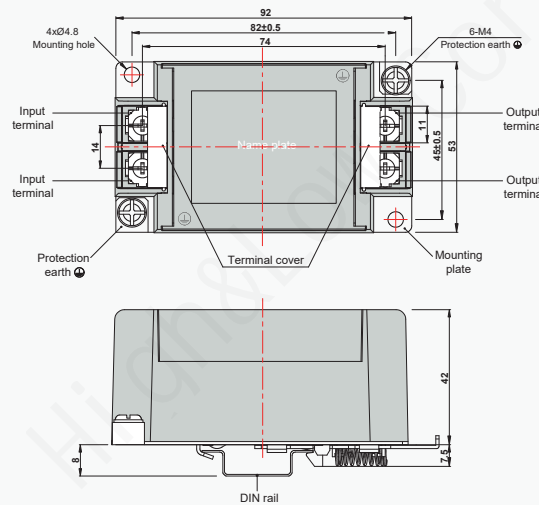
Mechanical Drawing (mm)

Chassis mounting



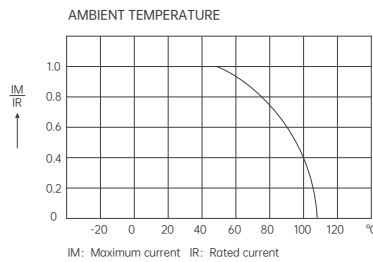
- Tolerance: ±1
- Case: PC
- Mounting plate: Iron (surface finishing: nickel plating) t= 1.2
- Terminal block screw tightening torque M4: 1.6N·m (16.9kgf·cm) max.

DIN-rail mounting



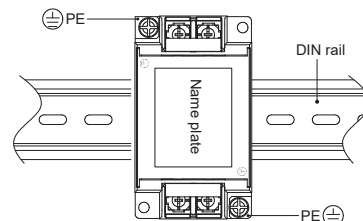
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Derating curve of current



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.





Features

- Superior attenuation of common-mode noise
- Light weight plastic housing design
- Current rating 1A~30A
- Integrated nut is in hinged cover for reliable ring lug wiring
- Suitable for generally industrial applicaces

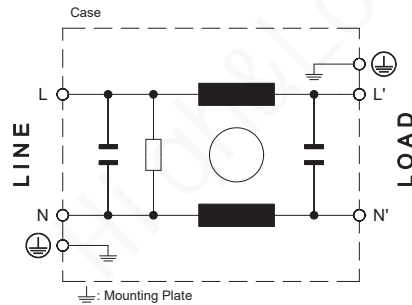
Applications

- UPS
- Automated LED sorting machine
- Treadmill
- Building automation
- Automatic data processing system

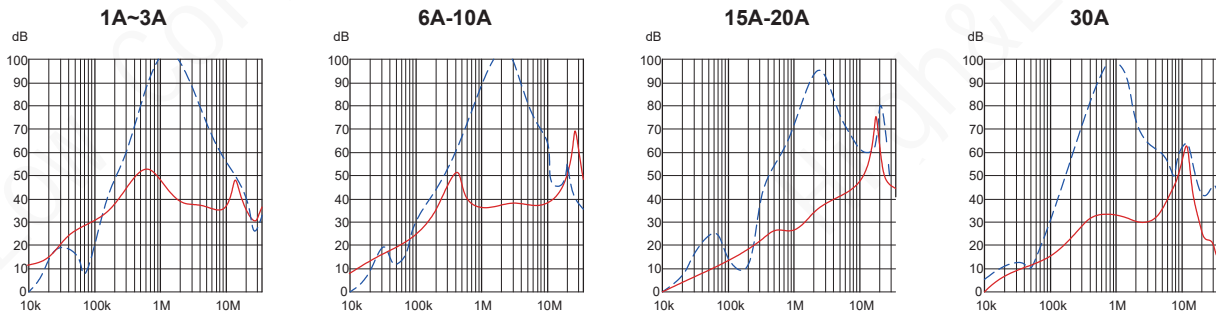
Filter Selection Table

Performance	Filter PRJ No.	Rated Current (50°C)	Leakage Current (250VAC/60Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Operating temperature	Mechanical Drawing
Best Frequency (10kHz~1MHz)	01CNAH472	1A	1mA max.	100MΩ min.	180 max.	-40° ~ +100°	Chassis mounting
	03CNAH472	3A	1mA max.	100MΩ min.	180 max.	-40° ~ +100°	Chassis mounting
	06CNAH472	6A	1mA max.	100MΩ min.	110 max.	-40° ~ +100°	Chassis mounting
	10CNAH472	10A	1mA max.	100MΩ min.	40 max.	-40° ~ +100°	Chassis mounting
	15CNAH472	15A	1mA max.	100MΩ min.	20 max.	-40° ~ +100°	Chassis mounting
	20CNAH472	20A	1mA max.	100MΩ min.	10 max.	-40° ~ +100°	Chassis mounting
	30CNAH472	30A	1mA max.	100MΩ min.	6 max.	-40° ~ +100°	Chassis mounting
	01CNAH472D	1A	1mA max.	100MΩ min.	180 max.	-40° ~ +100°	DIN-rail mounting
	03CNAH472D	3A	1mA max.	100MΩ min.	180 max.	-40° ~ +100°	DIN-rail mounting
	06CNAH472D	6A	1mA max.	100MΩ min.	110 max.	-40° ~ +100°	DIN-rail mounting
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Electrical Schematic



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

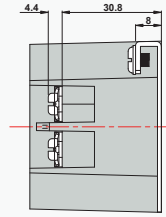
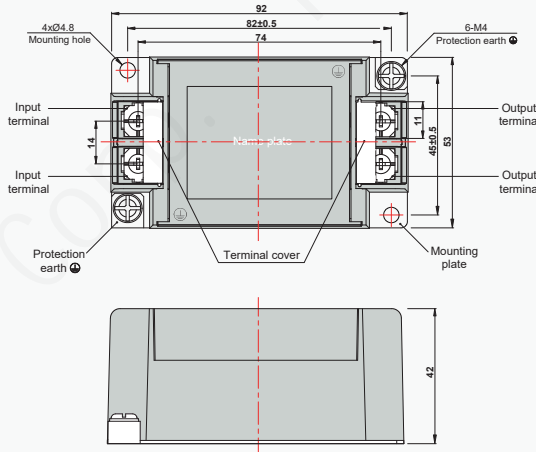


Common mode / Asymmetric (L-G) ——— Differential mode / Symmetric (L-L) - - - - -



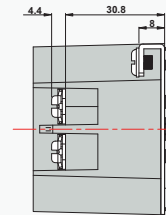
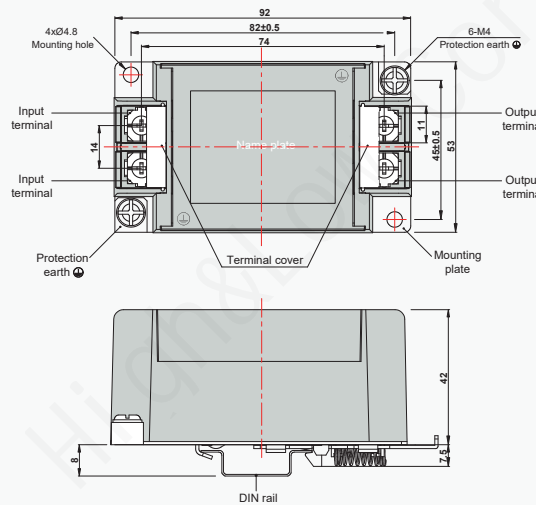
Mechanical Drawing (mm)

Chassis mounting



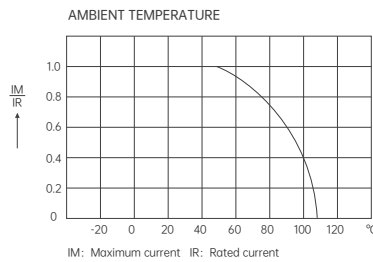
- Tolerance: ±1
- Case: PC
- Mounting plate: Iron (surface finishing: nickel plating) t= 1.2
- Terminal block screw tightening torque M4: 1.6N·m (16.9kgf·cm) max.

DIN-rail mounting



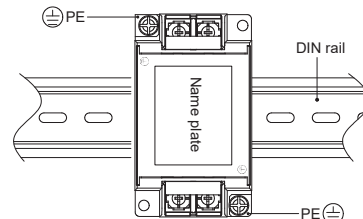
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Derating curve of current



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.





Features

- Superior attenuation of common-mode noise
- Light weight plastic housing design
- Current rating 1A~30A
- Integrated nut is in hinged cover for reliable ring lug wiring
- Suitable for generally industrial applicaces

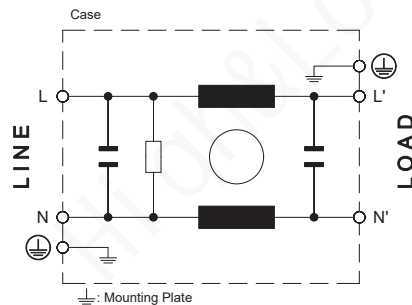
Applications

- UPS
- Automated LED sorting machine
- Treadmill
- Building automation
- Automatic data processing system

Filter Selection Table

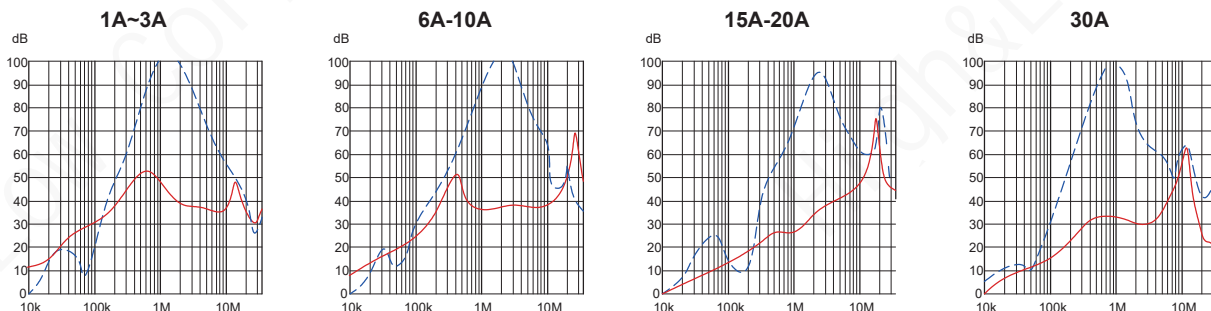
Performance	Filter PRJ No.	Rated Current (50°C)	Leakage Current (250VAC/60Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Operating temperature	Mechanical Drawing
High-voltage Pulses	01CNAP472	1A	1mA max.	100MΩ min.	180 max.	-40° ~ +100°	Chassis mounting
	03CNAP472	3A	1mA max.	100MΩ min.	180 max.	-40° ~ +100°	Chassis mounting
	06CNAP472	6A	1mA max.	100MΩ min.	110 max.	-40° ~ +100°	Chassis mounting
	10CNAP472	10A	1mA max.	100MΩ min.	40 max.	-40° ~ +100°	Chassis mounting
	15CNAP472	15A	1mA max.	100MΩ min.	20 max.	-40° ~ +100°	Chassis mounting
	20CNAP472	20A	1mA max.	100MΩ min.	10 max.	-40° ~ +100°	Chassis mounting
	30CNAP472	30A	1mA max.	100MΩ min.	6 max.	-40° ~ +100°	Chassis mounting
	01CNAP472D	1A	1mA max.	100MΩ min.	180 max.	-40° ~ +100°	DIN-rail mounting
	03CNAP472D	3A	1mA max.	100MΩ min.	180 max.	-40° ~ +100°	DIN-rail mounting
	06CNAP472D	6A	1mA max.	100MΩ min.	110 max.	-40° ~ +100°	DIN-rail mounting
	10CNAP472D	10A	1mA max.	100MΩ min.	40 max.	-40° ~ +100°	DIN-rail mounting
	15CNAP472D	15A	1mA max.	100MΩ min.	20 max.	-40° ~ +100°	DIN-rail mounting
	20CNAP472D	20A	1mA max.	100MΩ min.	10 max.	-40° ~ +100°	DIN-rail mounting
	30CNAP472D	30A	1mA max.	100MΩ min.	6 max.	-40° ~ +100°	DIN-rail mounting

Electrical Schematic



Filter Attenuation

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



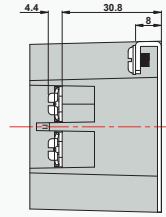
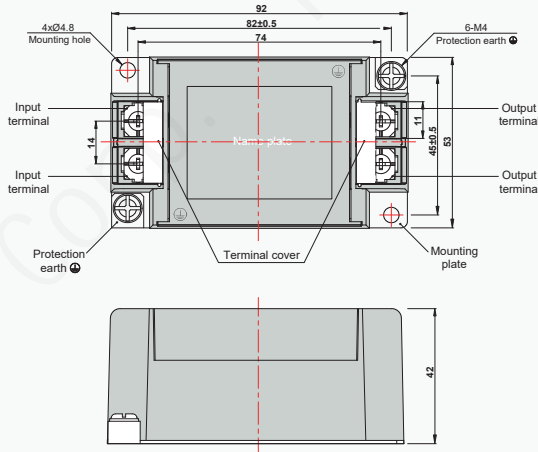
Common mode / Asymmetric (L-G) ——— Differential mode / Symmetric (L-L) - - - - -

CNAP



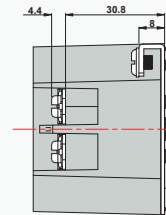
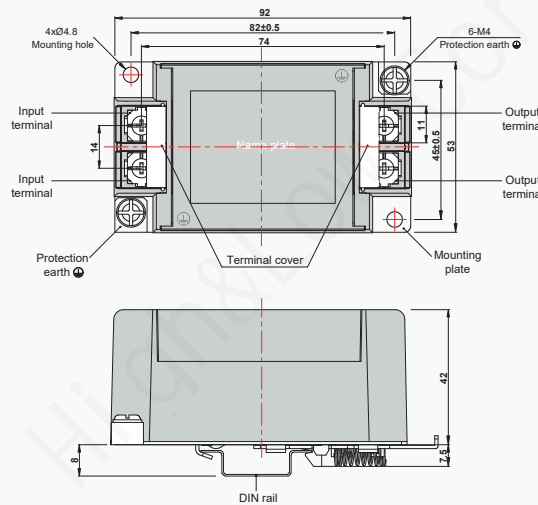
Mechanical Drawing (mm)

Chassis mounting



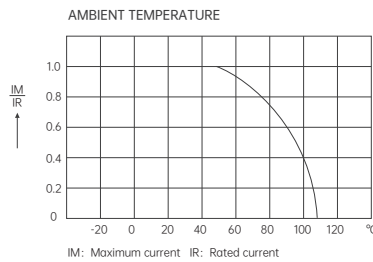
- Tolerance: ±1
- Case: PC
- Mounting plate: Iron (surface finishing: nickel plating) t= 1.2
- Terminal block screw tightening torque M4: 1.6N·m (16.9kgf·cm) max.

DIN-rail mounting



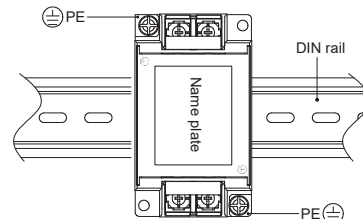
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- Mounting plate: Iron (surface finishing: nickel plating) t= 1.2
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Derating curve of current



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.





Features

- Superior attenuation of common-mode noise
- Light weight plastic housing design
- Current rating 1A~30A
- Integrated nut is in hinged cover for reliable ring lug wiring
- Suitable for generally industrial applicaces

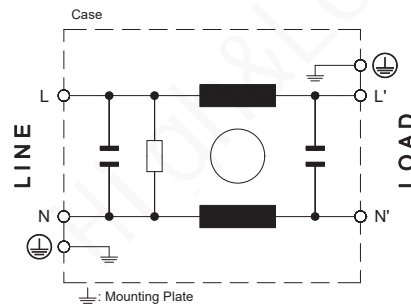
Applications

- UPS
- Automated LED sorting machine
- Treadmill
- Building automation
- Automatic data processing system

Filter Selection Table

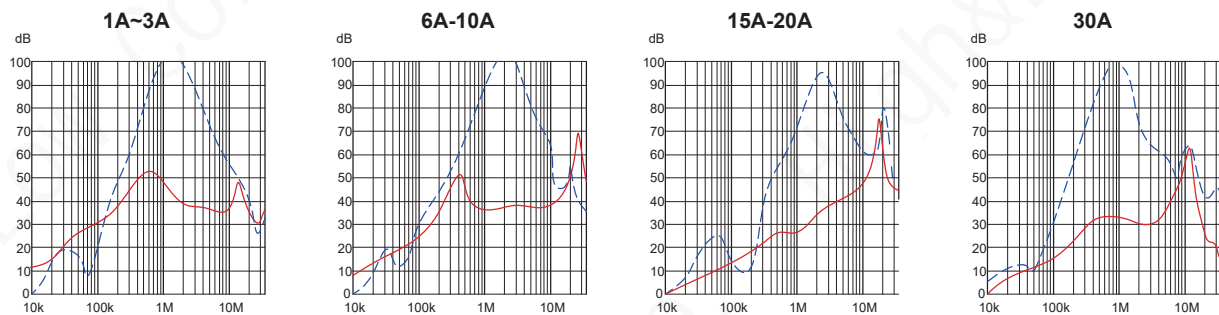
Performance	Filter PRJ No.	Rated Current (50°C)	Leakage Current (250VAC/60Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Operating temperature	Mechanical Drawing
Low Leakage Current	01CNAM000	1A	5μA max.	100MΩ min.	180 max.	-40° ~ +100°	Chassis mounting
	03CNAM000	3A	5μA max.	100MΩ min.	180 max.	-40° ~ +100°	Chassis mounting
	06CNAM000	6A	5μA max.	100MΩ min.	110 max.	-40° ~ +100°	Chassis mounting
	10CNAM000	10A	5μA max.	100MΩ min.	40 max.	-40° ~ +100°	Chassis mounting
	15CNAM000	15A	5μA max.	100MΩ min.	20 max.	-40° ~ +100°	Chassis mounting
	20CNAM000	20A	5μA max.	100MΩ min.	10 max.	-40° ~ +100°	Chassis mounting
	30CNAM000	30A	5μA max.	100MΩ min.	6 max.	-40° ~ +100°	Chassis mounting
	01CNAM000D	1A	5μA max.	100MΩ min.	180 max.	-40° ~ +100°	DIN-rail mounting
	03CNAM000D	3A	5μA max.	100MΩ min.	180 max.	-40° ~ +100°	DIN-rail mounting
	06CNAM000D	6A	5μA max.	100MΩ min.	110 max.	-40° ~ +100°	DIN-rail mounting
	10CNAM000D	10A	5μA max.	100MΩ min.	40 max.	-40° ~ +100°	DIN-rail mounting
	15CNAM000D	15A	5μA max.	100MΩ min.	20 max.	-40° ~ +100°	DIN-rail mounting
	20CNAM000D	20A	5μA max.	100MΩ min.	10 max.	-40° ~ +100°	DIN-rail mounting
	30CNAM000D	30A	5μA max.	100MΩ min.	6 max.	-40° ~ +100°	DIN-rail mounting

Electrical Schematic



Filter Attenuation

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

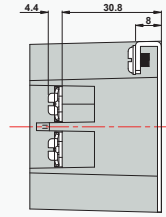
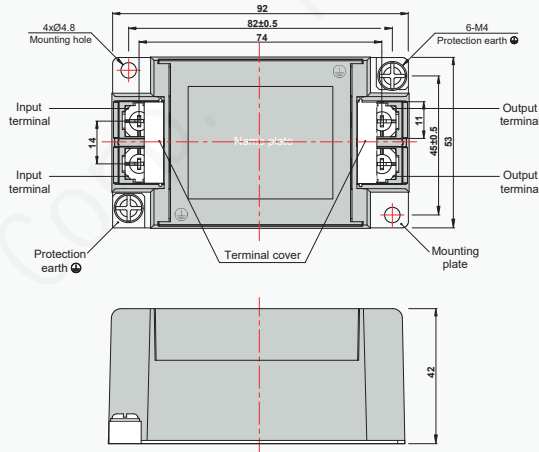


Common mode / Asymmetric (L-G) ——— Differential mode / Symmetric (L-L) - - - - -



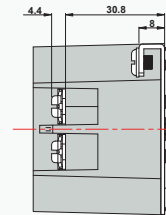
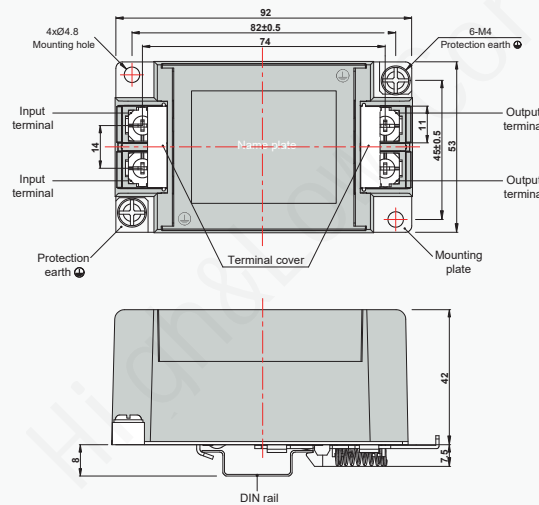
Mechanical Drawing (mm)

Chassis mounting



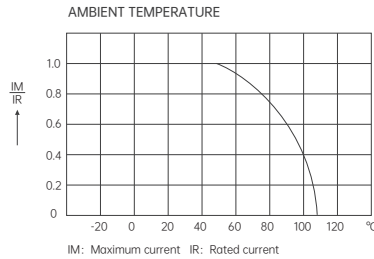
- Tolerance: ±1
- Case: PC
- Mounting plate: Iron (surface finishing: nickel plating) t= 1.2
- Terminal block screw tightening torque M4: 1.6N·m (16.9kgf·cm) max.

DIN-rail mounting



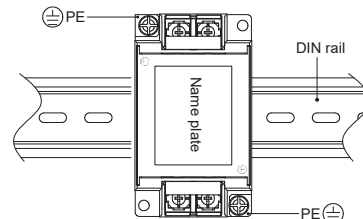
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Derating curve of current



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.





Features

- Premium attenuation of common-mode noise
- Light weight, small size plastic housing design
- Current rating 1A~30A
- Integrated nut is in hinged cover for reliable ring lug wiring
- Widely used in SMPS

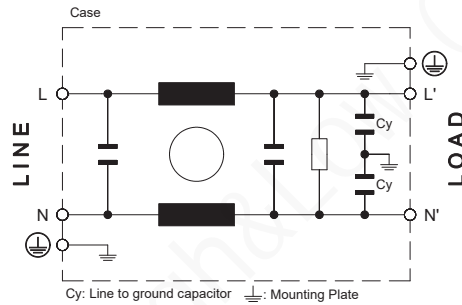
Applications

- SMPS
- Ultrasonic welding machine
- Electric appliance cabinet
- Medical device (not body-coupled)
- High power office equipment

Filter Selection Table

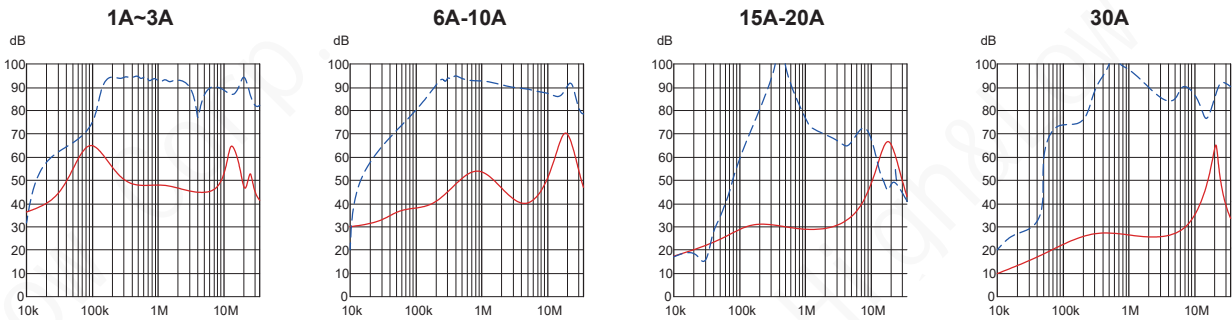
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Best Frequency (150kHz~1MHz)	01CEAC472	1A	1mA max.	100MΩ min.	180 max.	-40° ~ +100°	Chassis mounting
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Electrical Schematic



Filter Attenuation

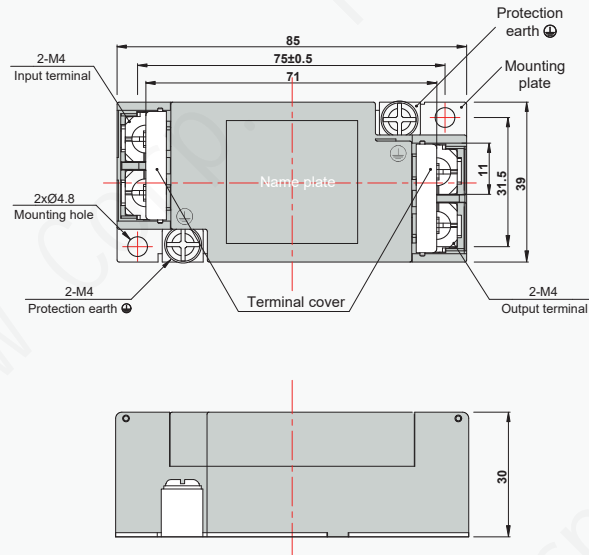
Insertion loss (dB) in 50 ohm system CISPR 17 (for reference only)



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

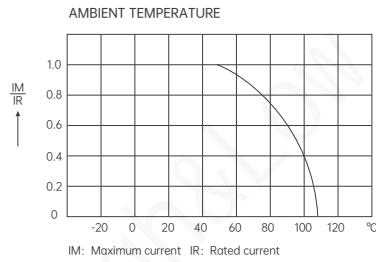
Mechanical Drawing (mm)

Chassis mounting



- Tolerance: ±1
- Case: PC
- Mounting plate: Iron (surface finishing: nickel plating) t= 1.0
- Terminal block screw tightening torque M4: 1.6N·m (16.9kgf·cm) max.

Derating curve of current



CEAP



Features

- Premium attenuation of common-mode noise
- Light weight, small size plastic housing design
- Current rating 1A~30A
- Integrated nut is in hinged cover for reliable ring lug wiring
- Widely used in SMPS

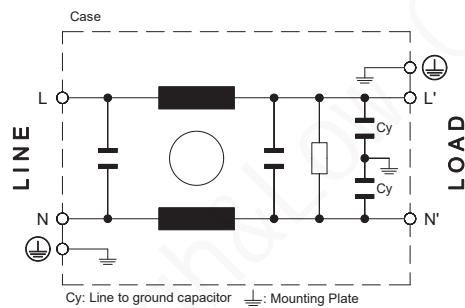
Applications

- SMPS
- Ultrasonic welding machine
- Electric appliance cabinet
- Medical device (not body-coupled)
- High power office equipment

Filter Selection Table

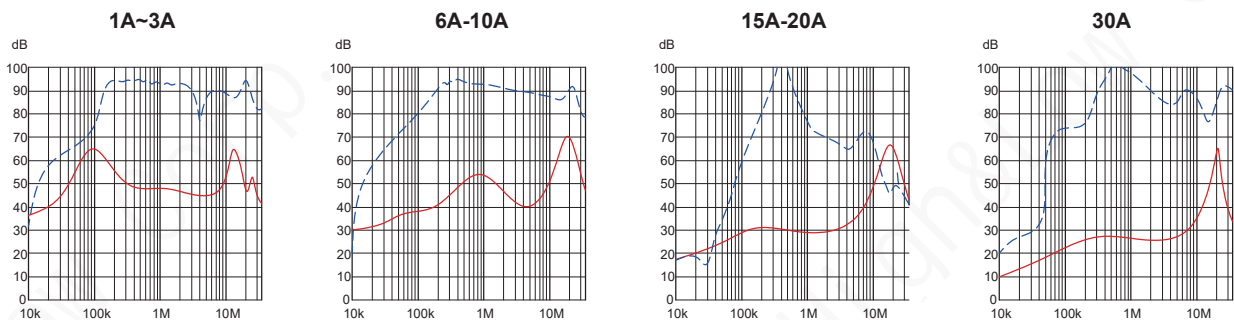
Performance	Filter PRJ No.	Rated Current (50°C)	Leakage Current (250VAC/60Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Operating temperature	Mechanical Drawing
High-voltage Pulses	01CEAP472	1A	1mA max.	100MΩ min.	180 max.	-40° ~ +100°	Chassis mounting
	03CEAP472	3A	1mA max.	100MΩ min.	180 max.	-40° ~ +100°	Chassis mounting
	06CEAP472	6A	1mA max.	100MΩ min.	110 max.	-40° ~ +100°	Chassis mounting
	10CEAP472	10A	1mA max.	100MΩ min.	40 max.	-40° ~ +100°	Chassis mounting
	15CEAP472	15A	1mA max.	100MΩ min.	20 max.	-40° ~ +100°	Chassis mounting
	20CEAP472	20A	1mA max.	100MΩ min.	10 max.	-40° ~ +100°	Chassis mounting
	30CEAP472	30A	1mA max.	100MΩ min.	6 max.	-40° ~ +100°	Chassis mounting

Electrical Schematic



Filter Attenuation

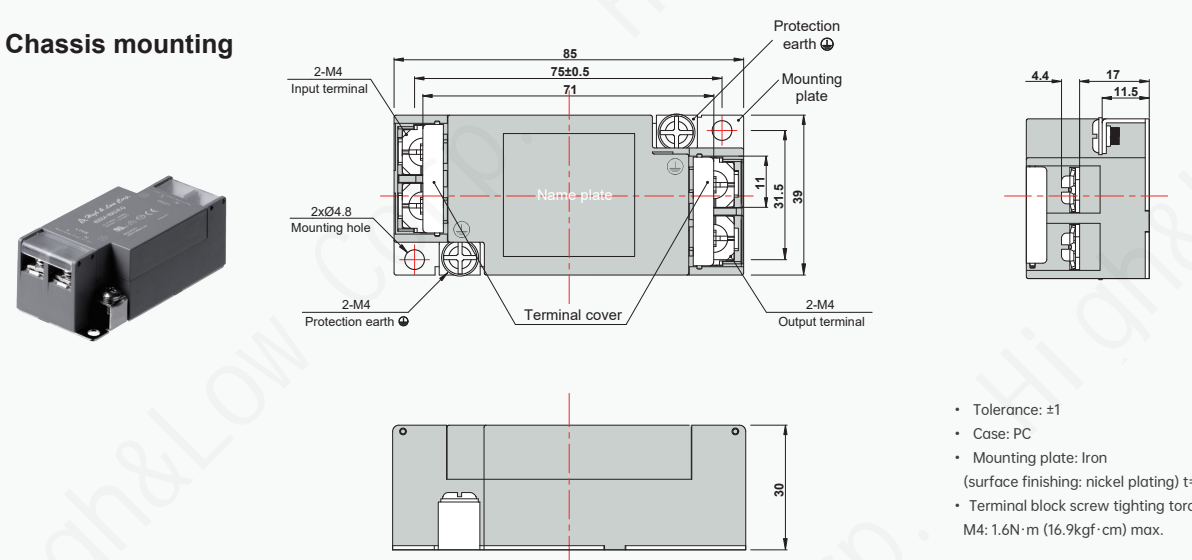
Insertion loss (dB) in 50 ohm system CISPR 17 (for reference only)



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

Mechanical Drawing (mm)

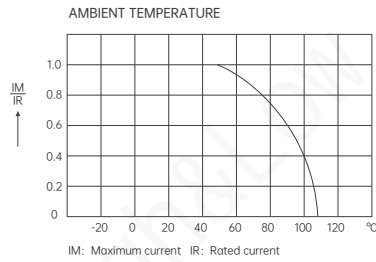
Chassis mounting



Input terminal
 2-M4
 Protection earth
 Mounting plate
 Name plate
 2xØ4.8
 Mounting hole
 Terminal cover
 Output terminal
 2-M4
 Protection earth
 85
 75±0.5
 71
 11
 31.5
 39
 4.4
 17
 11.5
 30

- Tolerance: ±1
- Case: PC
- Mounting plate: Iron (surface finishing: nickel plating) t= 1.0
- Terminal block screw tightening torque M4: 1.6N·m (16.9kgf·cm) max.

Derating curve of current



CEAM



Features

- Premium attenuation of common-mode noise
- Light weight, small size plastic housing design
- Current rating 1A~30A
- Integrated nut is in hinged cover for reliable ring lug wiring
- Widely used in SMPS

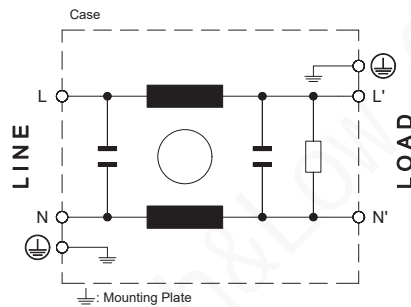
Applications

- SMPS
- Ultrasonic welding machine
- Electric appliance cabinet
- Medical device (not body-coupled)
- High power office equipment

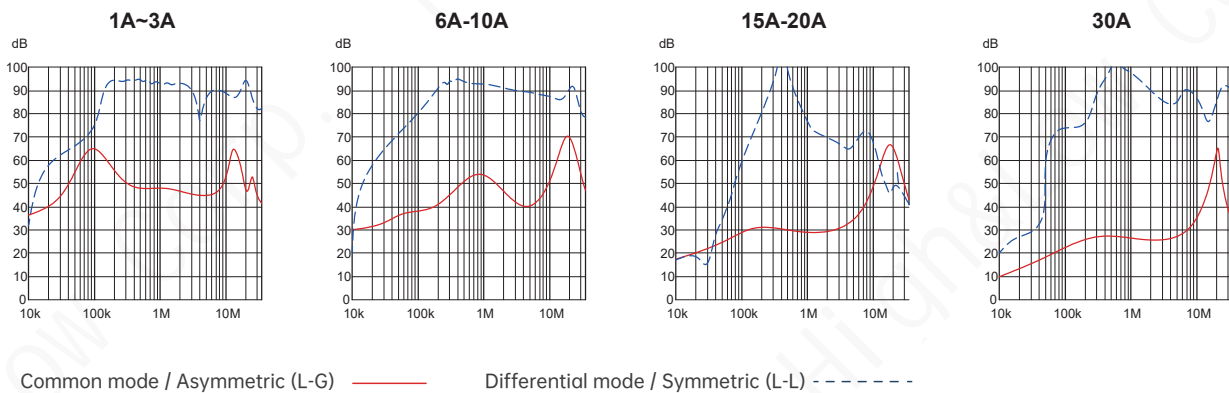
Filter Selection Table

Performance	Filter PRJ No.	Rated Current (50°C)	Leakage Current (250VAC/60Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Operating temperature	Mechanical Drawing
Low Leakage Current	01CEAM000	1A	10μA max.	100MΩ min.	180 max.	-40° ~ +100°	Chassis mounting
	03CEAM000	3A	10μA max.	100MΩ min.	180 max.	-40° ~ +100°	Chassis mounting
	06CEAM000	6A	10μA max.	100MΩ min.	110 max.	-40° ~ +100°	Chassis mounting
	10CEAM000	10A	10μA max.	100MΩ min.	40 max.	-40° ~ +100°	Chassis mounting
	15CEAM000	15A	10μA max.	100MΩ min.	20 max.	-40° ~ +100°	Chassis mounting
	20CEAM000	20A	10μA max.	100MΩ min.	10 max.	-40° ~ +100°	Chassis mounting
	30CEAM000	30A	10μA max.	100MΩ min.	6 max.	-40° ~ +100°	Chassis mounting

Electrical Schematic



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



CEAM

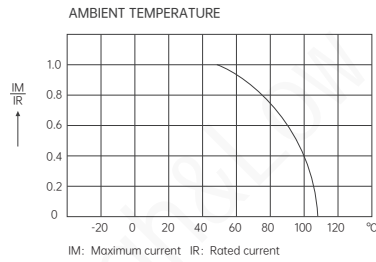


Mechanical Drawing (mm)

Chassis mounting

- Tolerance: ±1
- Case: PC
- Mounting plate: Iron (surface finishing: nickel plating) t= 1.0
- Terminal block screw tightening torque M4: 1.6N·m (16.9kgf·cm) max.

Derating curve of current





Features

- Superior attenuation of common-mode noise
- 2-stage filter suitable for heavily noisy environment
- Current rating 1A~20A
- Integrated nut is in hinged cover for reliable ring lug wiring
- Light weight plastic housing design

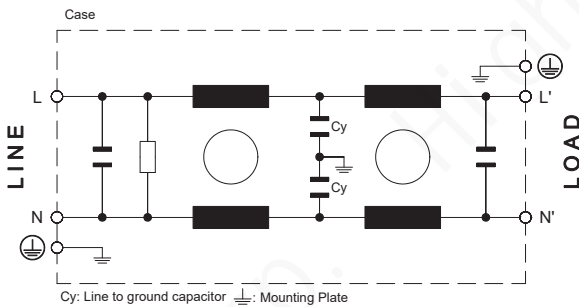
Applications

- Metal processing equipment
- Automation
- Assembly lines
- Computer numerical control (CNC)
- Packaging machine

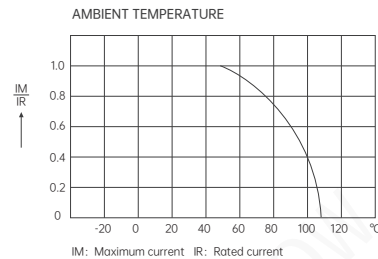
Filter Selection Table

Performance	Filter PRJ No.	Rated Current (50°C)	Leakage Current (250VAC/60Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Operating temperature	Mechanical Drawing
Best Frequency (150kHz~1MHz)	01CNBC472	1A	1mA max.	100MΩ min.	360 max.	-40° ~ +100°	Chassis mounting
	03CNBC472	3A	1mA max.	100MΩ min.	360 max.	-40° ~ +100°	Chassis mounting
	06CNBC472	6A	1mA max.	100MΩ min.	200 max.	-40° ~ +100°	Chassis mounting
	10CNBC472	10A	1mA max.	100MΩ min.	100 max.	-40° ~ +100°	Chassis mounting
	15CNBC472	15A	1mA max.	100MΩ min.	40 max.	-40° ~ +100°	Chassis mounting
	20CNBC72	20A	1mA max.	100MΩ min.	20 max.	-40° ~ +100°	Chassis mounting
	30CNBC472	30A	1mA max.	100MΩ min.	15 max.	-40° ~ +100°	Chassis mounting
	01CNBC472D	1A	1mA max.	100MΩ min.	360 max.	-40° ~ +100°	DIN-rail mounting
	03CNBC472D	3A	1mA max.	100MΩ min.	360 max.	-40° ~ +100°	DIN-rail mounting
	06CNBC472D	6A	1mA max.	100MΩ min.	200 max.	-40° ~ +100°	DIN-rail mounting
	10CNBC472D	10A	1mA max.	100MΩ min.	100 max.	-40° ~ +100°	DIN-rail mounting
	15CNBC472D	15A	1mA max.	100MΩ min.	40 max.	-40° ~ +100°	DIN-rail mounting
	20CNBC472D	20A	1mA max.	100MΩ min.	20 max.	-40° ~ +100°	DIN-rail mounting
	30CNBC472D	30A	1mA max.	100MΩ min.	15 max.	-40° ~ +100°	DIN-rail mounting

Electrical Schematic

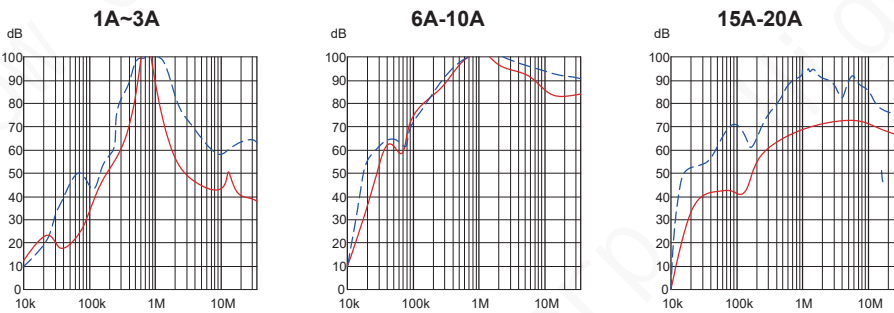


Derating curve of current



Filter Attenuation

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

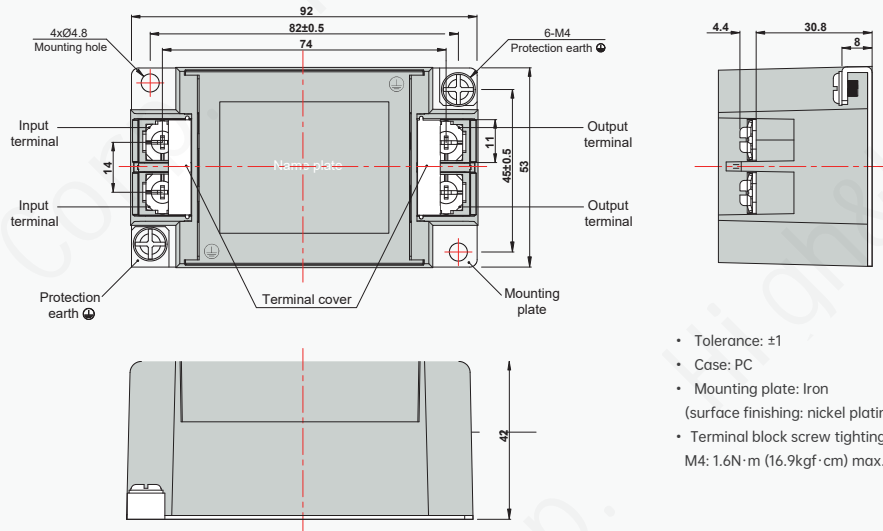


Common mode / Asymmetric (L-G) ———— Differential mode / Symmetric (L-L) - - - - -

Mechanical Drawing (mm)



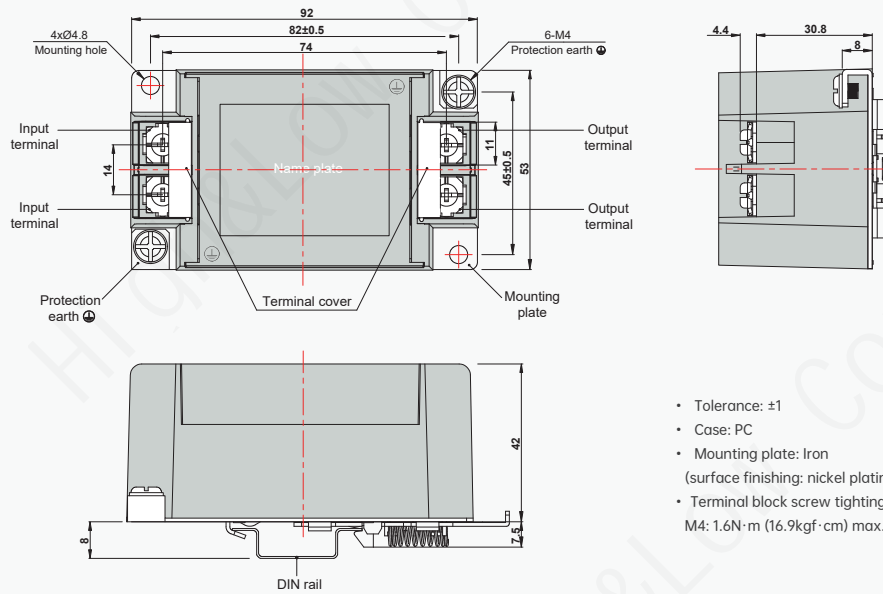
Chassis mounting



- 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.



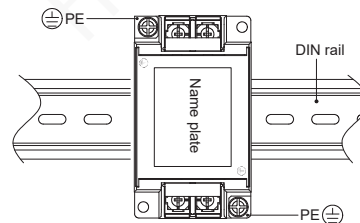
DIN-rail mounting



- 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.





Features

- Superior attenuation of common-mode noise
- 2-stage filter suitable for heavily noisy environment
- Current rating 1A~20A
- Integrated nut is in hinged cover for reliable ring lug wiring
- Light weight plastic housing design

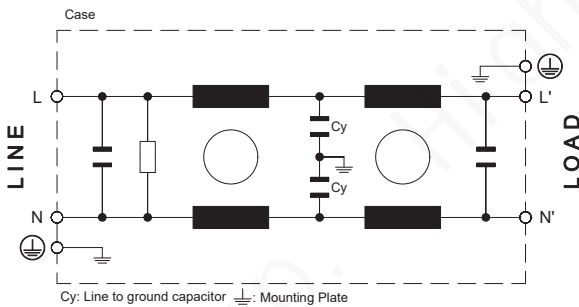
Applications

- Metal processing equipment
- Automation
- Assembly lines
- Computer numerical control (CNC)
- Packaging machine

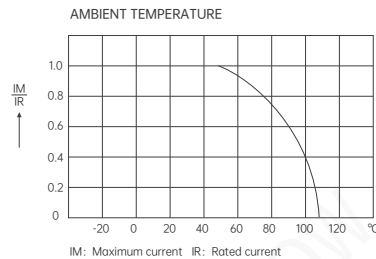
Filter Selection Table

Performance	Filter PRJ No.	Rated Current (50°C)	Leakage Current (250VAC/60Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Operating temperature	Mechanical Drawing
Low Leakage Current	01CNBM471	1A	100μA max.	100MΩ min.	360 max.	-40° ~ +100°	Chassis mounting
	03CNBM471	3A	100μA max.	100MΩ min.	360 max.	-40° ~ +100°	Chassis mounting
	06CNBM471	6A	100μA max.	100MΩ min.	200 max.	-40° ~ +100°	Chassis mounting
	10CNBM471	10A	100μA max.	100MΩ min.	100 max.	-40° ~ +100°	Chassis mounting
	15CNBM471	15A	100μA max.	100MΩ min.	40 max.	-40° ~ +100°	Chassis mounting
	20CNBM471	20A	100μA max.	100MΩ min.	20 max.	-40° ~ +100°	Chassis mounting
	30CNBM471	30A	100μA max.	100MΩ min.	15 max.	-40° ~ +100°	Chassis mounting
	01CNBM471D	1A	100μA max.	100MΩ min.	360 max.	-40° ~ +100°	DIN-rail mounting
	03CNBM471D	3A	100μA max.	100MΩ min.	360 max.	-40° ~ +100°	DIN-rail mounting
	06CNBM471D	6A	100μA max.	100MΩ min.	200 max.	-40° ~ +100°	DIN-rail mounting
	10CNBM471D	10A	100μA max.	100MΩ min.	100 max.	-40° ~ +100°	DIN-rail mounting
	15CNBM471D	15A	100μA max.	100MΩ min.	40 max.	-40° ~ +100°	DIN-rail mounting
	20CNBM471D	20A	100μA max.	100MΩ min.	20 max.	-40° ~ +100°	DIN-rail mounting
	30CNBM471D	30A	100μA max.	100MΩ min.	15 max.	-40° ~ +100°	DIN-rail mounting

Electrical Schematic

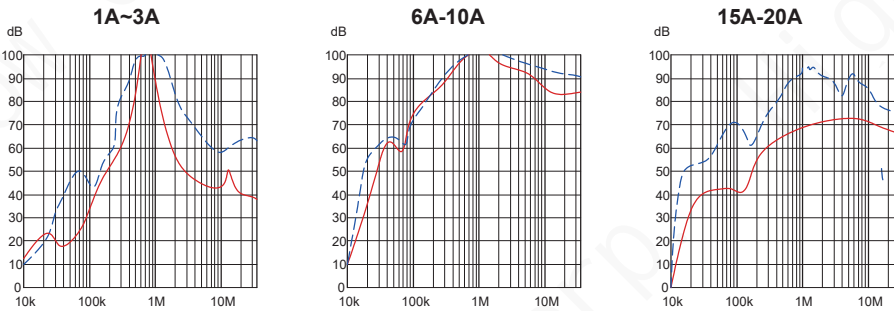


Derating curve of current



Filter Attenuation

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

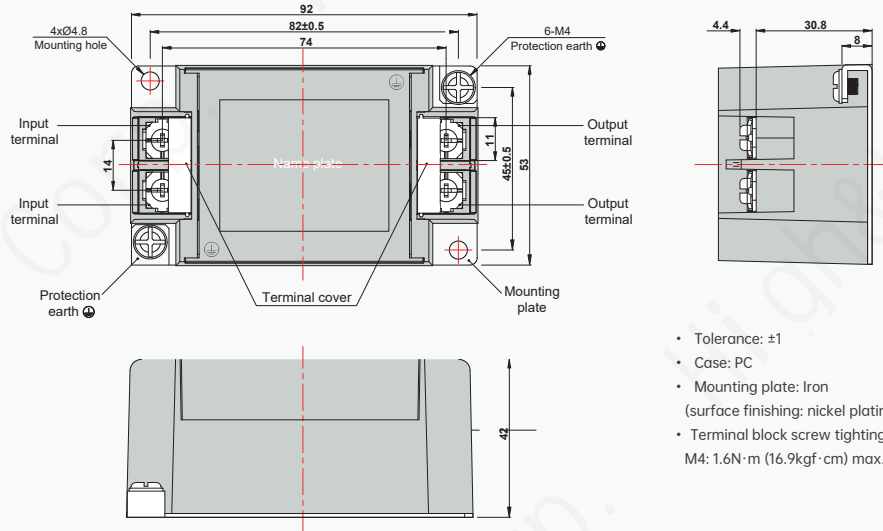


Common mode / Asymmetric (L-G) ———— Differential mode / Symmetric (L-L) - - - - -

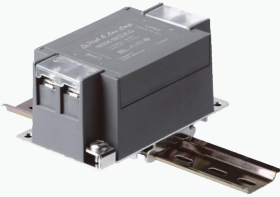
Mechanical Drawing (mm)



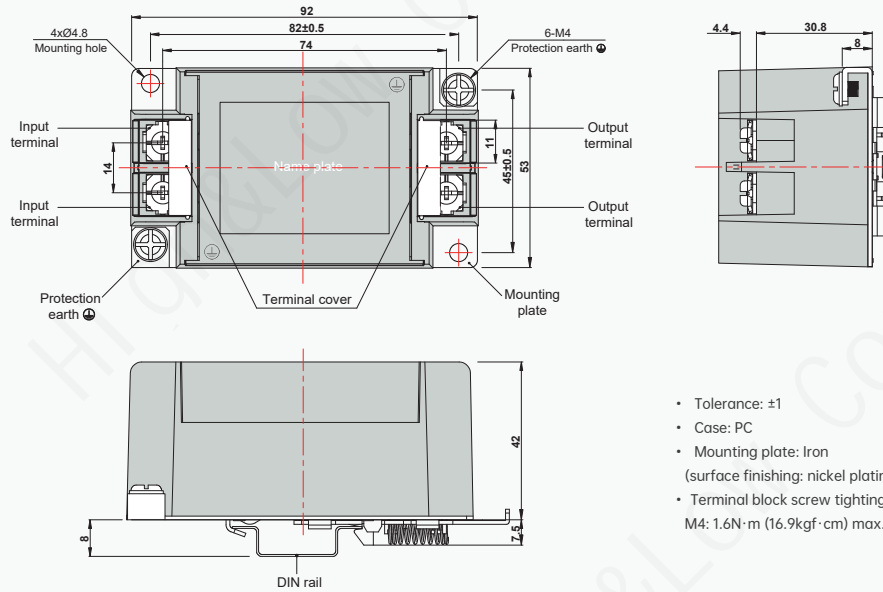
Chassis mounting



- 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.



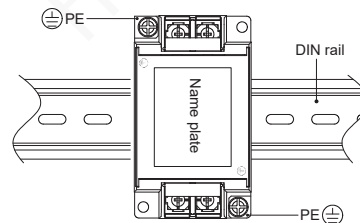
DIN-rail mounting



- 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.





Features

- High attenuation of common-mode noise
- 2-stage filter
- Current rating 1A~30A
- Integrated nut is in hinged cover for reliable ring lug wiring
- Light weight plastic housing design

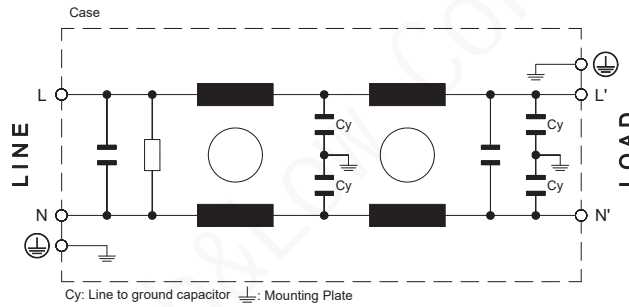
Applications

- Bioprocessing equipment
- Safety tester
- Assembly lines
- Data storage
- Packaging machine

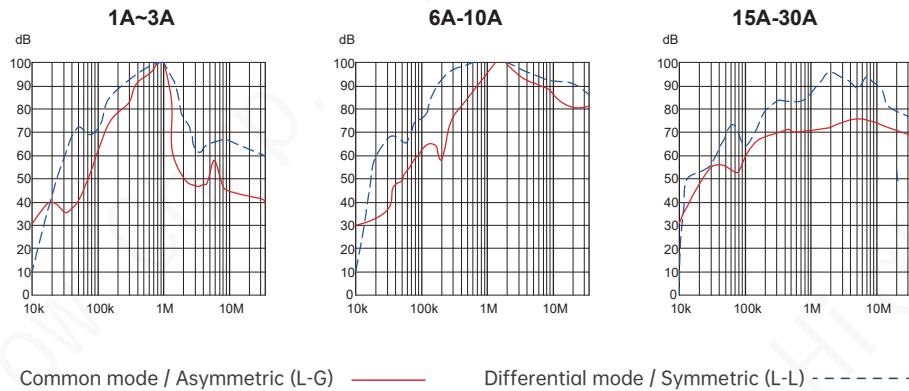
Filter Selection Table

Performance	Filter PRJ No.	Rated Current (50°C)	Leakage Current (250VAC/60Hz)	Insulation Resistance (@500VDC)	DC Resistance (mΩ)	Operating temperature	Mechanical Drawing
Best Frequency (10kHz~10MHz)	01CNBH432	1A	1mA max.	100MΩ min.	360 max.	-40° ~ +100°	Chassis mounting
	03CNBH432	3A	1mA max.	100MΩ min.	360 max.	-40° ~ +100°	Chassis mounting
	06CNBH432	6A	1mA max.	100MΩ min.	200 max.	-40° ~ +100°	Chassis mounting
	10CNBH432	10A	1mA max.	100MΩ min.	100 max.	-40° ~ +100°	Chassis mounting
	15CNBH432	15A	1mA max.	100MΩ min.	40 max.	-40° ~ +100°	Chassis mounting
	20CNBH432	20A	1mA max.	100MΩ min.	20 max.	-40° ~ +100°	Chassis mounting
	30CNBH432	30A	1mA max.	100MΩ min.	15 max.	-40° ~ +100°	Chassis mounting

Electrical Schematic

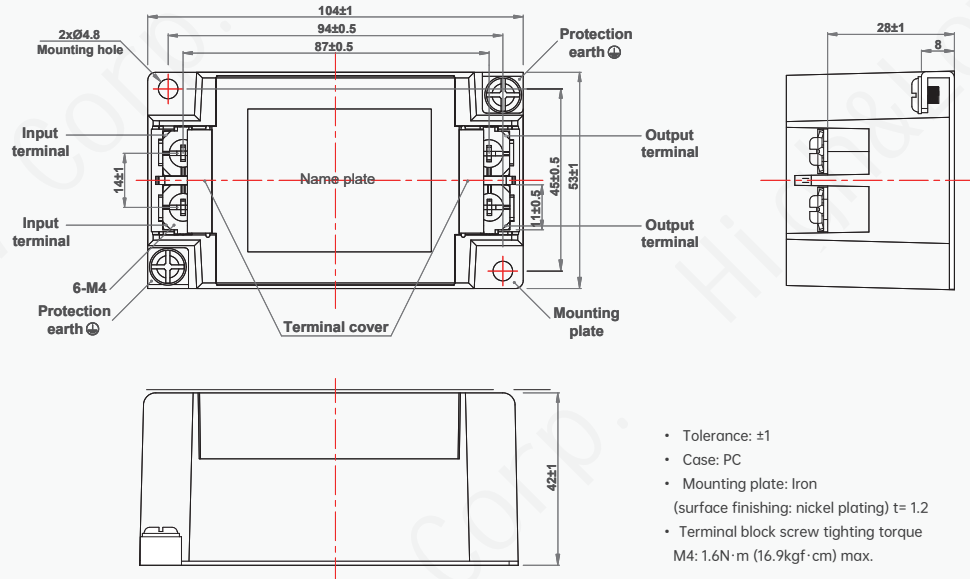


Filter Attenuation Insertion loss (dB) in 50 ohm system CISPR 17 (for reference only)



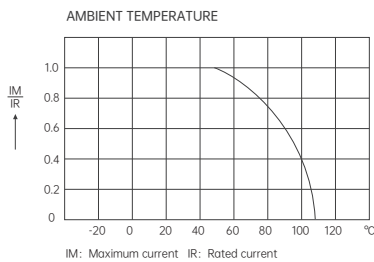
Mechanical Drawing (mm)

Chassis mounting



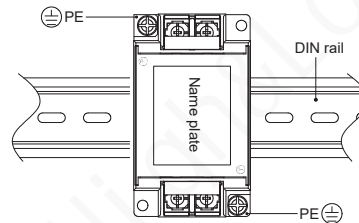
- Tolerance: ±1
- Case: PC
- Mounting plate: Iron (surface finishing: nickel plating) t= 1.2
- Terminal block screw tightening torque M4: 1.6N·m (16.9kgf·cm) max.

Derating curve of current



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.





🌐 <https://www.hal.com.tw>

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