

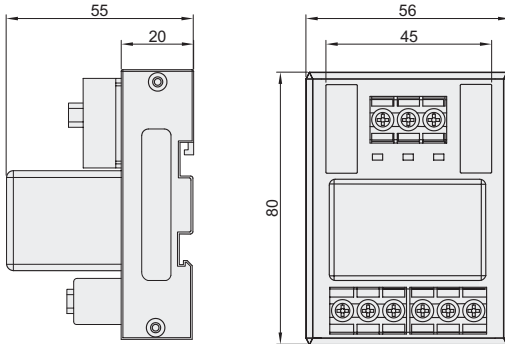
Code	Type	
ZHN01	DIN Rail Mounting Type	With Fuse

CE

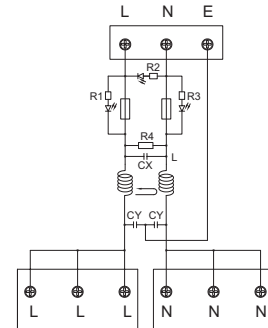


Feature

- The terminal block is specially designed for AC control circuit;
- The terminal block is equipped with two fuses, which can also be used as short-circuit protection;
- With LED display for power supply and warning LED for fuse disconnection;
- After installation, it has a three-in-one function to replace the branch terminal block, insurance tube, and power filter.

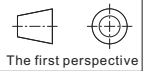


Wiring Diagram



- ⓘ Use 2 M4-screws to fix it on the place where the parts are installed. It is recommended to use M4×16 screws, and the depth of the screw hole is more than 3mm.

- ⓘ It can be installed on a standard 35mm DIN rail.



Part Number		Rated Voltage
Code	Rated Current(A)	
ZHN01	10	AC 220V
	20	



Part Number		Rated Voltage
Code	Rated Current(A)	
ZHN01	10	AC 220V
	20	

ZHN01 — 10

Single Phase Filters

General Type

Screw Fixing Type/DIN Rail Mounting Type, Resin Shell

Code	Type	Wiring Method	Installation Method	Shell Material
ZHN14	General Type	Japanese	Screw Fixing Type	Resin
ZHN15		Terminal Block	DIN Rail Mounting Type	

UL CE CUL



Feature

- Open-close cover to improve working efficiency;
- Equipped with screw fixing type and DIN rail mounting type products;
- Cost-effective.

Application

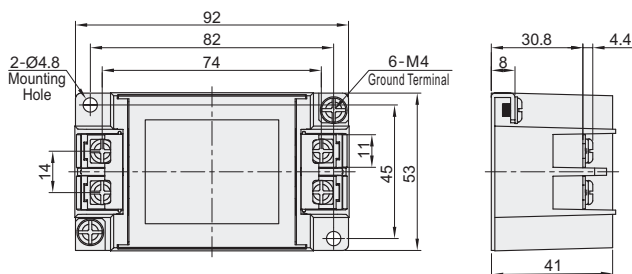
- Can meet the requirements of low leakage current in the medical industry;
- Automated Material Handling Systems.

Precautions

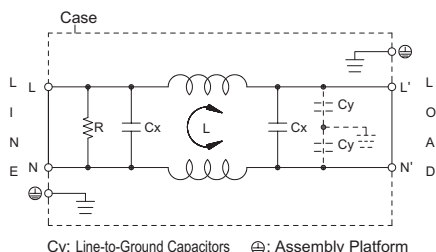
- The recommended torque of the terminal screw is 1.4~1.6NM, if it is too large, the thread will slip.
- The flipping force of the terminal cover should not be too strong, otherwise it will be easily damaged and dropped.

Screw Fixing Type

ZHN14

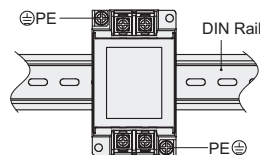
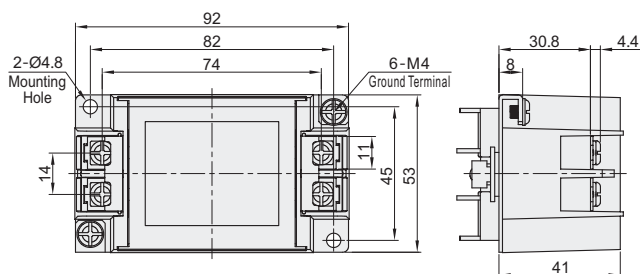


Wiring Diagram



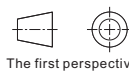
DIN Rail Mounting Type

ZHN15



Mount EMI Filter on DIN Rail

When the EMI filter is grounded through the DIN rail, Proper noise attenuation may not be achieved. Make sure to connect the protective earth (PE) of the EMI filter Connect to ground.



Part Number		Factory Model	Wiring Method	
Code	Rated Current(A)		In	Out
Screw Fixing Type ZHN14	10	10SS4-1BC2-R-Q (10CNAC472)	Japanese Terminal Block	Japanese Terminal Block
	20	20SS4-1BC2-R-Q (20CNAC472)		
	30	30SS4-1BC2-R-Q (30CNAC472)		
DIN Rail Mounting Type ZHN15	10	10SS4-1BC2-R-Q (10CNAC472D)		
	20	20SS4-1BC2-R-Q (20CNAC472D)		
	30	30SS4-1BC2-R-Q (30CNAC472D)		

Performance Table

Code	Rated Current(A)	Rated Voltage	Operating Frequency	Operating Temperature	Maximum Leakage Current	Climate Category	Storage Temperature	Test Voltage	Compliance Standards
Screw Fixing Type ZHN14	10	AC/DC250V	50/60Hz	-40°C~+100°C	250VAC/60Hz 1.0mA	25/100/21	-25°C~+100°C	Wire-Ground 2500VAC/1 Min	UL,CUL,VDE CQC,CE
	20								
	30								
DIN Rail Mounting Type ZHN15	10								
	20								
	30								



Part Number	
Code	Rated Current(A)
ZHN14	10
	20

ZHN14-10

High Performance Type

DIN Rail Mounting Type, Metal Shell

Single Phase Filters

Code	Type	Wiring Method	Installation Method	Shell Material
ZHN18	High Performance Type	Euro-Style Protective Terminal Block	Screw Fixing Type	Metal
ZHN19			DIN Rail Mounting Type	

CE



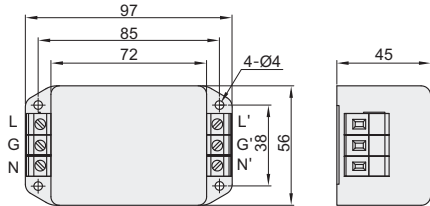
Feature

- High performance power filter;
- Good common mode and differential mode interference suppression characteristics.

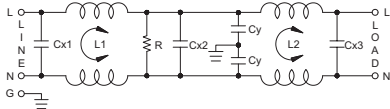
Application

- Used in most digital equipment (especially switching power supply), can be used to suppress continuous or intermittent pulse interference.

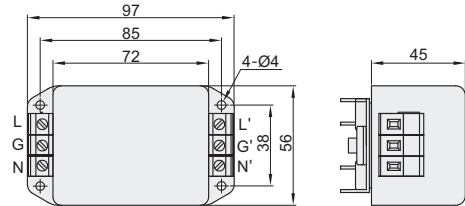
Screw Fixing Type
ZHN18



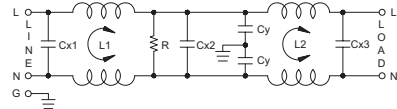
Wiring Diagram



DIN Rail Mounting Type
ZHN19



Wiring Diagram



The first perspective

Part Number		High Performance Circuit	Installation Method	Wiring Method		Capacitor	Inductance
Code	Rated Current(A)			In	Out		
Screw Fixing Type ZHN18	10	Two-Stage Filtering	Screw Fixing Type	Euro-Style Protective Terminal Block	Euro-Style Protective Terminal Block	CX:0.1µF×2 CY:3300PF×2	1.8mH×2
	20						0.75mH×2
	30						0.5mH×2
DIN Rail Mounting Type ZHN19	10		DIN Rail Mounting Type				1.8mH×2
	20						0.75mH×2
	30						0.5mH×2

Performance Table

Code	Rated Current(A)	Rated Voltage	Operating Frequency	Operating Temperature	Maximum Leakage Current	Climate Category	Storage Temperature	Test Voltage	Compliance Standards
Screw Fixing Type ZHN18	10	115/250VAC	50/60Hz	-25°C~+85°C	0.3m Wire-Ground@115VAC/60Hz	25/85/21	-25°C~+100°C	Wire-Wire 500VDC/1 Min Wire-Ground 2000VAC/1 Min	CE
	20				0.6m Wire-Ground@250VAC/50Hz				
	30								
DIN Rail Mounting Type ZHN19	10				0.5m Wire-Ground@115VAC/60Hz				
	20				1.0m Wire-Ground@250VAC/50Hz				
	30								



Please order as shown

Part Number	
Code	Rated Current(A)
ZHN18	10
	20

ZHN18-10

Single Phase Filters

High Performance Type Screw Fixing Type, Standard Type

Code	Type	High Performance Circuit	Wiring Method	Installation Method	Shell Material
ZHN43	High Performance Type Standard Type	Two-Stage Filtering	Screw	Screw Fixed	Metal

UL	CQC
CE	CUL

Feature

- High performance power filter;
- Metal shell full cover type;
- Can meet the requirements of low leakage current in the medical industry.

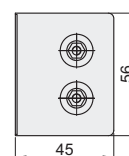
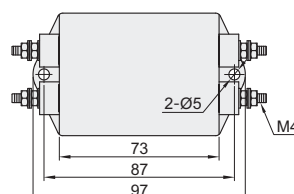
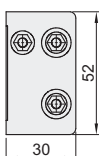
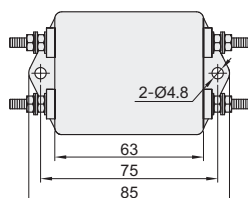
Application Range

- Small and medium-sized machines of household equipment;
- food processing equipment; industrial automation equipment.

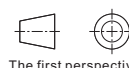
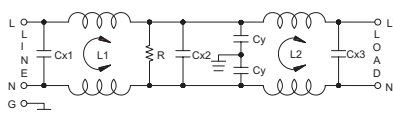


Rated Current: 10A/20A

Rated Current: 30A



Wiring Diagram



The first perspective

Part Number		High Performance Circuit	Installation Method	Wiring Method		Capacitor	Inductance
Code	Rated Current(A)			In	Out		
ZHN43	10	Two-Stage Filtering	Screw Fixing Type	Screw	Screw	CX:0.1μF×2 CY:3300PF×2	1.8mH×2
	20						0.75mH×2
	30						0.5mH×2

Performance Table

Code	Rated Current(A)	Rated Voltage	Operating Frequency	Operating Temperature	Maximum Leakage Current	Climate Category	Storage Temperature	Test Voltage	Compliance Standards
ZHN43	10	115/250VAC	50/60Hz	-25°C ~ +85°C	0.3m Wire-Ground@115VAC/60Hz	25/85/21	-25°C ~ +100°C	Wire-Wire 500VDC/1 Min Wire-Ground 2000VAC/1 Min	CE
	20				0.6m Wire-Ground@250VAC/50Hz				
	30				0.25m Wire-Ground@115VAC/60Hz 0.45m Wire-Ground@250VAC/50Hz				



Please order as shown

Part Number	
Code	Rated Current(A)
ZHN43	10
	20

ZHN43-10

High Attenuation Type ▶ Single Phase Filters

Screw Fixing Type, Resin Shell

Code	Type	Wiring Method	Shell Material
ZHN20	High Attenuation Type	Japanese Terminal Block	Resin

UL CE CUL



Feature

- Excellent anti-low-pass noise performance;
- The terminal block structure can effectively prevent the screws from falling off during wiring;
- Cost-effective products with lower prices.

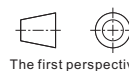
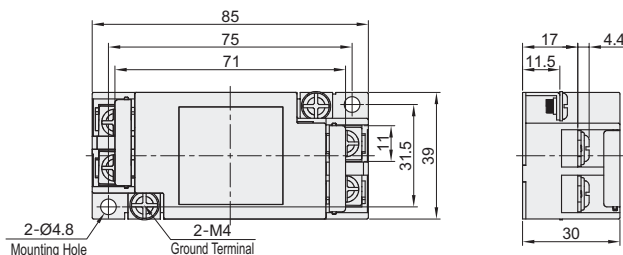
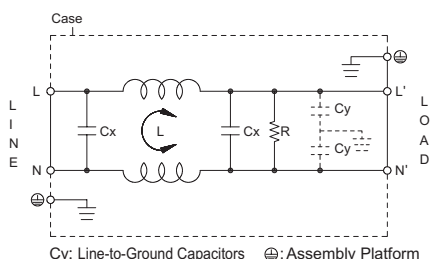
Precautions

- The recommended torque of the terminal screw is 1.4~1.6NM, if it is too large, the thread will slip.
- The flipping force of the terminal cover should not be too strong, otherwise it will be easily damaged and dropped.

Application

- Medical Equipment;
- Efficient Office Equipment;
- Cabinet-mounting Power Supply;
- Industrial automation.

Wiring Diagram



The first perspective

Part Number		Factory Model	Installation Method	Wiring Method	
Code	Rated Current(A)			In	Out
ZHN20	6	06SS4-1BA3-R-Q (06CEAC472)	Screw Fixing Type	Japanese Terminal Block	Japanese Terminal Block
	10	10SS4-1BA3-R-Q (10CEAC472)			

Performance Table

Code	Rated Current(A)	Rated Voltage	Withstand Voltage	Insulation Resistance	Maximum Leakage Current	Operating Temperature	Storage Temperature	Compliance Standards
ZHN20	6	AC/DC250V	AC2500V/1 Min	100MΩ min. DC500V	125V 60Hz 0.5mA max. 250V 60Hz 1.0mA max.	-25°C~+100°C	-40°C~+100°C	UL,CUL,VDE CQC,CE
	10							



Part Number	
Code	Rated Current(A)
ZHN20	6
ZHN20	10

ZHN20-6

Three Phase Filters

General Type

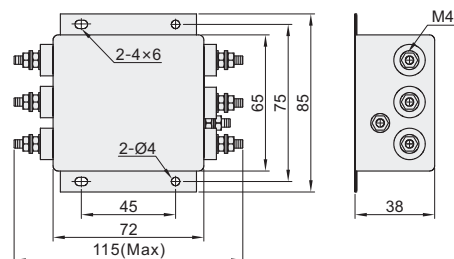
Screw Fixing Type, Metal Shell

Code	Type	Wiring Method	Installation Method	Shell Material
ZHN45	General Type	Screw	Screw Fixing Type	Metal

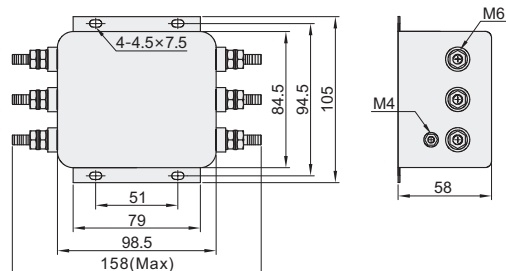
CE



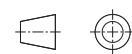
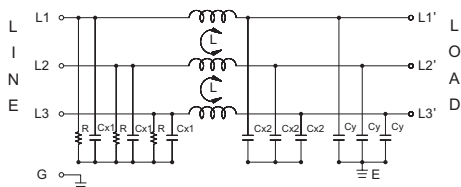
Rated Current: 20A/30A



Rated Current: 40A/50A/60A



Wiring Diagram



The first perspective

Part Number		Installation Method	Wiring Method		Capacitor	Inductance
Code	Rated Current(A)		In	Out		
ZHN45	20	Screw Fixed Type	Screw	Screw	CX:0.22μF	0.8mH×3
	30				CY:4700PF×3	0.5mH×3
	40				CX:0.22μF	0.95mH×3
	50				CY:10000PF×3	0.75mH×3
	60					0.6mH×3

Performance Table

Code	Rated Current(A)	Rated Voltage	Operating Frequency	Operating Temperature	Maximum Leakage Current	Climate Category	Storage Temperature	Test Voltage	Compliance Standards
ZHN45	20	380/480VAC	50/60Hz	-25°C~+100°C	2.0mA MaxWire-Ground @250VAC/50Hz	25/85/21	-25°C~+100°C	Wire-Wire 1450VDC/1 Min Wire-Ground 2000VAC/1 Min	CE
	30								
	40				3.0mA MaxWire-Ground @250VAC/50Hz				
	50								
	60								



Please order as shown

Part Number	
Code	Rated Current(A)
ZHN45	20
	30

ZHN45 - 20

Code	Type	Wiring Method	Installation Method	Shell Material
ZHN23	Economic Type	Japanese Terminal Block	Screw Fixing Type	Resin
ZHN24		Terminal Block	DIN Rail Mounting Type	

UL CE CUL



Feature

- Excellent electromagnetic filtering performance;
- Light weight with plastic housing;
- Ultra low leakage current;
- Touch-safe input/output terminals;
- Products have passed UL, CUL, ENEC, CQC, CE certification.

Precautions

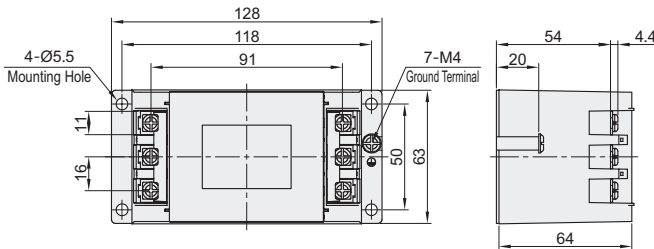
- The recommended torque of the terminal screw is 1.4~1.6N·M, if it is too large, the thread will slip.
- The flipping force of the terminal cover should not be too strong, otherwise it will be easily damaged and dropped.

Application

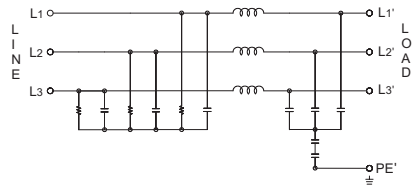
- Electric drive system;
- Power management system.

Screw Fixing Type

ZHN23

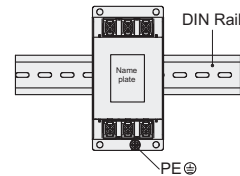
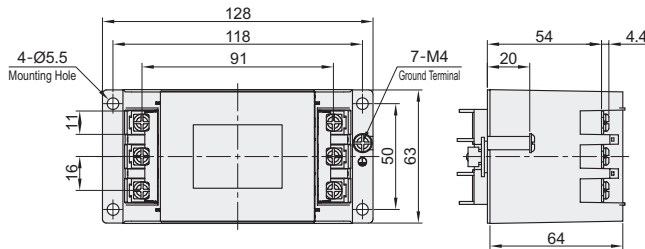


Wiring Diagram



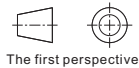
DIN Rail Mounting Type

ZHN24



Mount EMI Filter on DIN Rail

When the EMI filter is grounded through the DIN rail, Proper noise attenuation may not be achieved. Make sure to connect the protective earth (PE) of the EMI filter Connect to ground.



Part Number		Factory Model	Wiring Method	
Code	Rated Current(A)		In	Out
Screw Fixing Type ZHN23	10	10S5-1AH1-T (10CTAC)	Japanese Terminal Block	Japanese Terminal Block
	20	20S5-1AH1-T (10CTAC)		
	30	30S5-1AH1-T (10CTAC)		
DIN Rail Mounting Type ZHN24	10	10S5-1AH1-T (10CTACD)		
	20	20S5-1AH1-T (20CTACD)		
	30	30S5-1AH1-T (30CTACD)		

Performance Table

Code	Rated Current(A)	Rated Voltage	Operating Frequency	Operating Temperature	Maximum Leakage Current	Climate Category	Storage Temperature	Test Voltage	Compliance Standards
Screw Fixing Type ZHN23	10	500VAC	50/60Hz	-40°C~+100°C	500VAC/60Hz 5mA	25/100/21	-40°C~+100°C	Wire-Ground 2000VAC/1 Min	UL,CUL,VDE CQC,CE
	20								
	30								
DIN Rail Mounting Type ZHN24	10	500VAC	50/60Hz	-40°C~+100°C	500VAC/60Hz 5mA	25/100/21	-40°C~+100°C	Wire-Ground 2000VAC/1 Min	UL,CUL,VDE CQC,CE
	20								
	30								



Please order as shown

Part Number	
Code	Rated Current(A)
ZHN23	10
ZHN23	20

ZHN23-10