High & Low Corporation

One brand • More options

New Product Launch

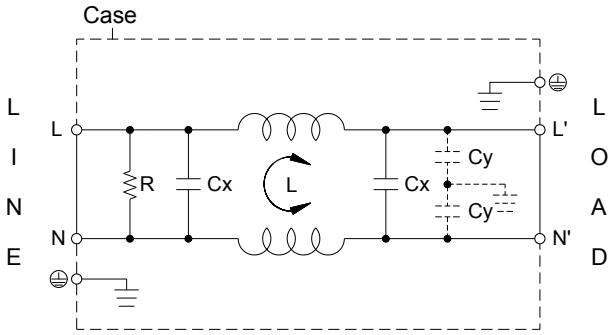
Single Phase Filter

Superior attenuation of common-mode noise

Features

- Single phase power line filter
- Suitable for generally industrial applicaces
- High attenuation of common-mode noise
- Current rating 1~30A
- Leakage current values 5μA~1mA (max.)
- Touch-safe connections with hinged safety covers
- Integrated nut is in hinged cover for quick, reliable ring lug wiring
- Light weight plastic housing design
- Design with environmentally friendly compound

Electrical schematic



Cy: Line to ground capacitor ⏚:Mounting plate
note: CNAM series without cy cap.

Special features:

※ CNAC series: best frequency bands from 150kHz~1MHz.
※ CNAH series: best frequency bands from 10kHz~1MHz.
※ CNAP series: high-voltage pulses.
※ CNAM series: medical grade with very low leakage current.

Technical data and measuring conditions

No.	CNAC series Filter PRJ No.	01CNAC472	03CNAC472	06CNAC472	10CNAC472	15CNAC472	20CNAC472	30CNAC472
	CNAH series Filter PRJ No.	01CNAH472	03CNAH472	06CNAH472	10CNAH472	15CNAH472	20CNAH472	30CNAH472
	CNAP series Filter PRJ No.	01CNAP472	03CNAP472	06CNAP472	10CNAP472	15CNAP472	20CNAP472	30CNAP472
	CNAM series Filter PRJ No.	01CNAM000	03CNAM000	06CNAM000	10CNAM000	15CNAM000	20CNAM000	30CNAM000
1	Rated voltage	AC 1Ø 250V / DC250V						
2	Rated current	1A	3A	6A	10A	15A	20A	30A
3	Test voltage (Terminal-mounting plate)	2,500 VAC (Cutoff current: 20mA), 1 min. at room temperature and humidity						
4	Isolation resistance (Terminal-mounting plate)	500VDC 100MΩ min. at room temperature and humidity						
5	Leakage current	CNAC / CNAH / CNAP series: 1mA; CNAM series: 5μA @250VAC/60Hz (max.)						
6	Cy cap. value ●	0 ~ 0.47nF						
7	Voltage drop	1.0V max.						
8	Safety approval temp.	-25° ~ +100°						
9	Operating temperature	-40° ~ +100°						
10	Operating humidity	20 ~ 95%RH (Non condensing)						
11	Storage temp./ humidity	-40° ~ +100°; 20 ~ 95%RH (Non condensing)						
12	Vibration	10 ~ 55Hz, 19.6m/s^2(2G), 3 min. period, 1 hour each X,Y,Z axis						
13	Impact	196.1m/s^2(20G), 11ms, once along X,Y,Z axis						
14	Safety approvals	UL1283, CSA C22.2 No.8 (C-UL), VDE0565 Teil3-1, IEC/EN60939						

● call for alternatives.

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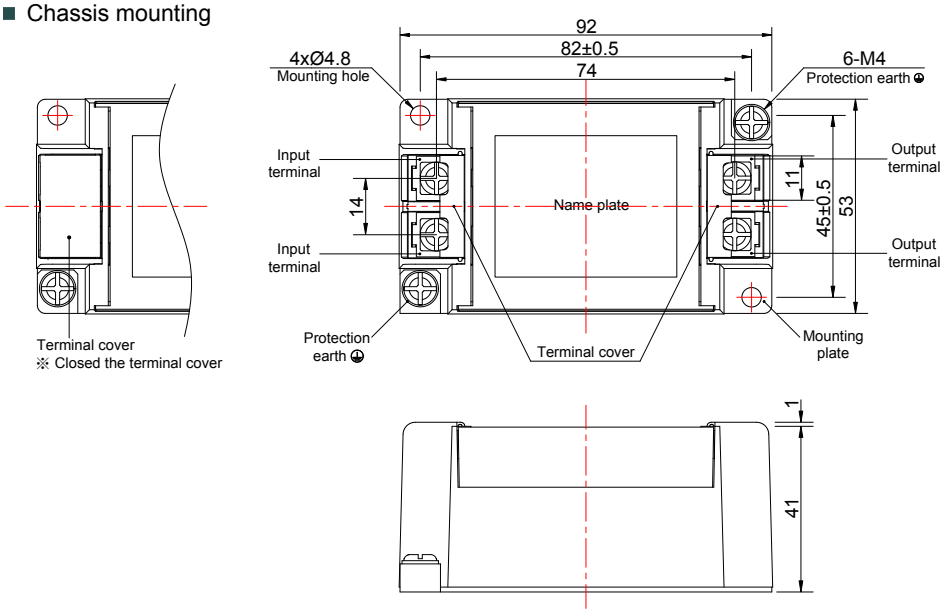
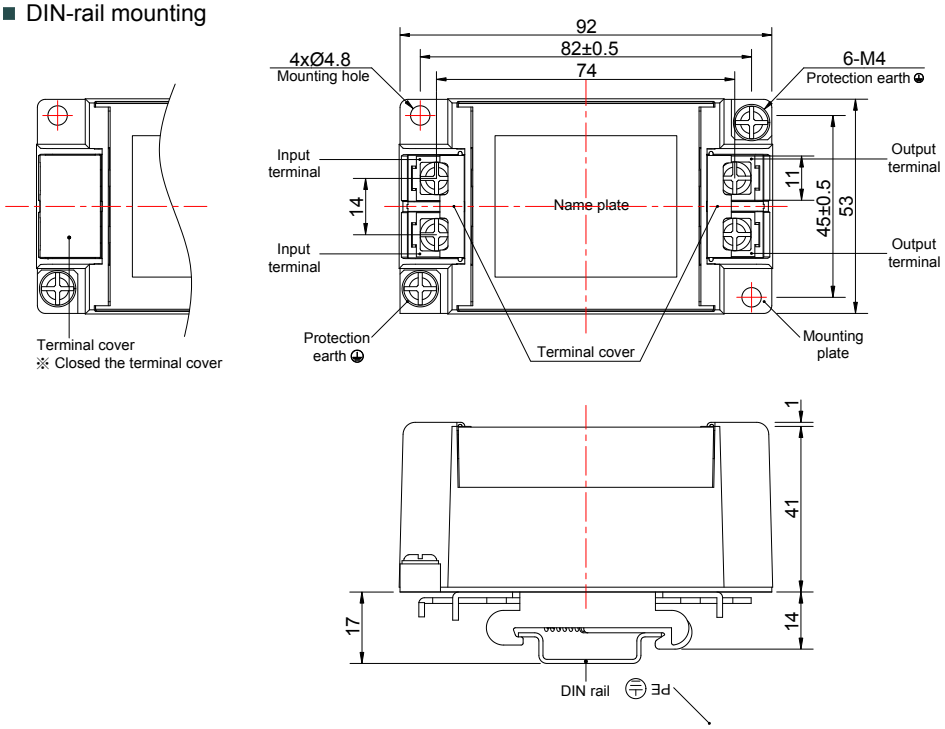
Mechanical drawing (unit: mm)

Chassis mounting



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

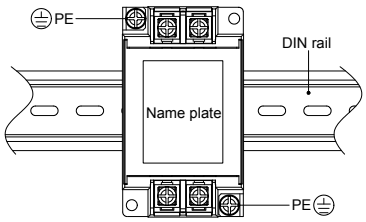
DIN-rail mounting



※ Tolerance: ±1
※ Case: PC
※ Mounting plate: Iron (surface finishing: nickel plating) t= 1.2
※ Terminal block screw tighting 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.



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