

## SNA\_6A



### Features

- DIN rail installation (option)
- Best filter for switch mode power supplies of analog circuits (ex. power supply filter for an operational amplifier)
- Terminal block type (SNA-6A Option)
- $\pm 50$  VDC
- RoHS Compliant

### Safety Agency Approvals

- UL60950-1
- EN60950-1
- C-UL (CSA60950-1)

| Model      | Rated Voltage [V]                       | Rated Current [A] |
|------------|---|-------------------|
| SNA-06-223 | $\pm 50$ (+Vin - COM-in, -Vin - COM-in) | 6                 |

# SNA series (6A)

SNA -06 -223 -□

① ② ③ ④

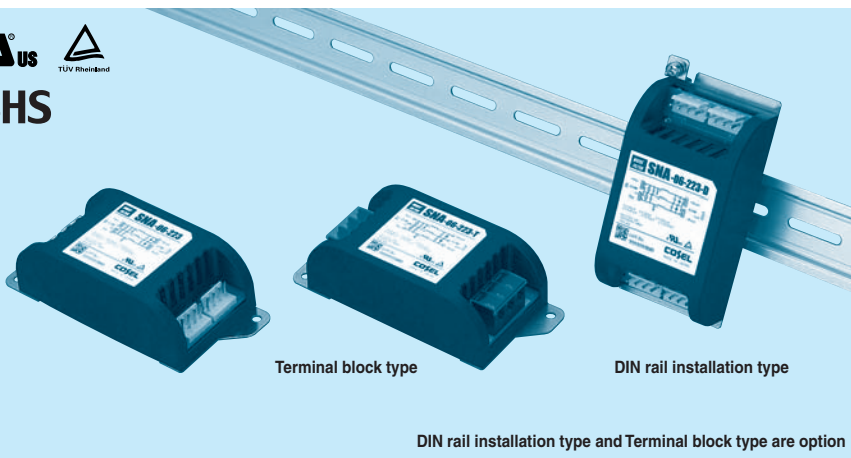
- ① Model Name
- ② Rated Current
- ③ Line to ground capacitor code: See table 1.1.

table 1.1 Line to ground capacitor code

| Code | Line to ground capacitor (nominal value) |
|------|--|
| 000  | Not Provided                             |
| 223  | 22000pF                                  |

- ④ Options
- D :DIN rail installation type
- T :Terminal block type
- DT :Terminal block and DIN rail type

\* The dimensions change when the option is set. Refer to External view.



Terminal block type

DIN rail installation type

DIN rail installation type and Terminal block type are option

## Features of SNA series (6A)

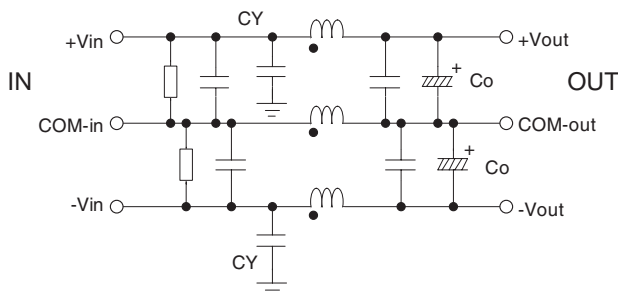
### Ripple noise attenuation type for switch mode power supplies(DC)

- ±50 VDC
- Best filter for switch mode power supplies of analog circuits (ex. power supply filter for an operational amplifier)

### Specifications

| No. | Items  | SNA-06-223  |
|-----|--|---|
|     |  | Interfare:Connector   |
| 1   | Rated Voltage DC[V]                            | ±50 (+Vin - COM-in, -Vin - COM-in)  |
| 2   | Rated Current DC[A]                            | 6   |
| 3   | Test Voltage (Terminal-Mounting Plate)         | 500 VAC (Cutoff Current = 100mA), 1minute at room temperature and humidity      |
| 4   | Isolation Resistance (Terminal-Mounting Plate) | 500 VDC 50MΩ minute at room temperature and humidity                            |
| 5   | D.C Resistance[mΩ]                             | 50 max  |
| 6   | Operating temperature                          | -40 to +71°C (Refer to Derating Curve)  |
| 7   | Operating humidity                             | 20 to 95%RH (Non condensing)  |
| 8   | Storage temperature/humidity                   | -40 to +75°C/20 to 95%RH (Non condensing)                                       |
| 9   | Vibration                                      | 10 to 55Hz, 19.6m/s <sup>2</sup> (2G), 3min. Period, 1hour each X, Y and Z axis |
| 10  | Impact   | 196.1m/s <sup>2</sup> (20G), 11ms Once each X, Y and Z axis                     |
| 11  | Safety agency approvals                        | UL60950-1, C-UL (CSA60950-1), EN60950-1   |
| 12  | Case size (without projection) /Mass           | 52X35X117 mm (W×H×D) /150g max (Option : -D, -T, -DT refer to external view)    |

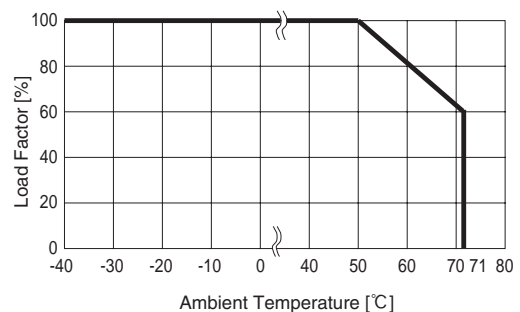
### Circuit Diagram



CY : Line to ground capacitor Co : Electrolytic capacitor : Mounting Plate

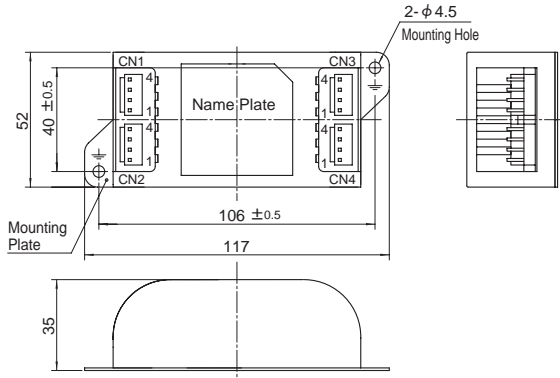
■ Expected life : 10 years

### Derating Curve



## External view

### Standard Type



- ※ Tolerance : ±1
- ※ Mass : 150g or less
- ※ PCB Material /thickness : CEM3 /1.6mm
- ※ Mounting plate : Iron (surface finishing : nickel plating) t=1.0
- ※ Case : PBT
- ※ Dimensions in mm
- ※ Keeping drawing current per pin below 5A for CN1 to CN4

| CN1     |          | CN3     |          |
|---------|----------|---------|----------|
| Pin No. | Function | Pin No. | Function |
| 1,2     | COM-in   | 1,2     | COM-out  |
| 3,4     | +Vin     | 3,4     | +Vout    |

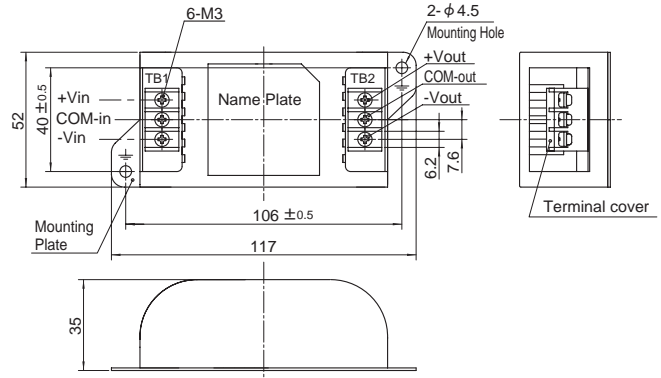
| CN2     |          | CN4     |          |
|---------|----------|---------|----------|
| Pin No. | Function | Pin No. | Function |
| 1,2     | -Vin     | 1,2     | -Vout    |
| 3,4     | COM-in   | 3,4     | COM-out  |

| I/O Connector | Mating connector | Terminal                               |
|---------------|------------------|--|
| CN1-CN4       | B4P-VH VHR-4N    | Reel:SVH-21T-P1.1<br>Bulk:BVH-21T-P1.1 |

(Mfr.:J.S.T)

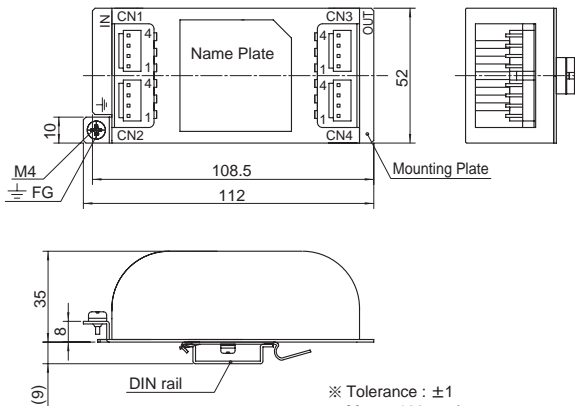
Option harness : Refer to Instruction Manual 4

### Terminal block Type



- ※ Tolerance : ±1
- ※ Mass : 160g or less
- ※ PCB Material /thickness : CEM3 /1.6mm
- ※ Mounting plate : Iron (surface finishing : nickel plating) t=1.0
- ※ Case : PBT
- ※ Dimensions in mm
- ※ Terminal block screw tightening torque M3:0.8N · m (8.5kgf · cm) max

### DIN rail installation Type



- ※ Tolerance : ±1
- ※ Mass : 160g or less
- ※ PCB Material /thickness : CEM3 / 1.6mm
- ※ Mounting plate : Iron (surface finishing : nickel plating) t=1.0
- ※ Case : PBT
- ※ Dimensions in mm
- ※ Keeping drawing current per pin below 5A for CN1 to CN4

| CN1     |          | CN3     |          |
|---------|----------|---------|----------|
| Pin No. | Function | Pin No. | Function |
| 1,2     | COM-in   | 1,2     | COM-out  |
| 3,4     | +Vin     | 3,4     | +Vout    |

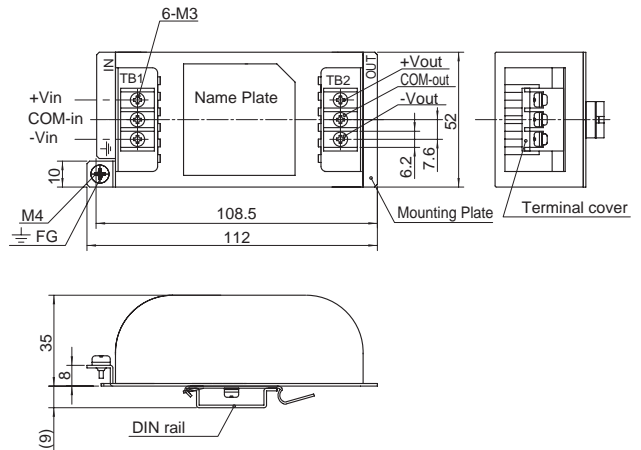
| CN2     |          | CN4     |          |
|---------|----------|---------|----------|
| Pin No. | Function | Pin No. | Function |
| 1,2     | -Vin     | 1,2     | -Vout    |
| 3,4     | COM-in   | 3,4     | COM-out  |

| I/O Connector | Mating connector | Terminal                               |
|---------------|------------------|--|
| CN1-CN4       | B4P-VH VHR-4N    | Reel:SVH-21T-P1.1<br>Bulk:BVH-21T-P1.1 |

(Mfr.:J.S.T)

Option harness : Refer to Instruction Manual 4

### Terminal block type+DIN rail installation Type

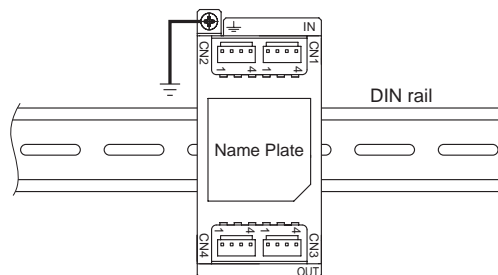


- ※ Tolerance : ±1
- ※ Mass : 170g or less
- ※ PCB Material /thickness : CEM3 /1.6mm
- ※ Mounting plate : Iron (surface finishing : nickel plating) t=1.0
- ※ Case : PBT
- ※ Dimensions in mm
- ※ Terminal block screw tightening torque M3:0.8N · m (8.5kgf · cm) max

## ■Note when installing the noise filter on a DIN rail.

When the noise filter is grounded through the DIN rail, the proper noise attenuation may not be achieved.

Be sure to connect the FG terminal of the noise filter body to the earth.



Noise Filter

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9