

SNA series (6A)

SNA -06 -223 -□

① ② ③ ④

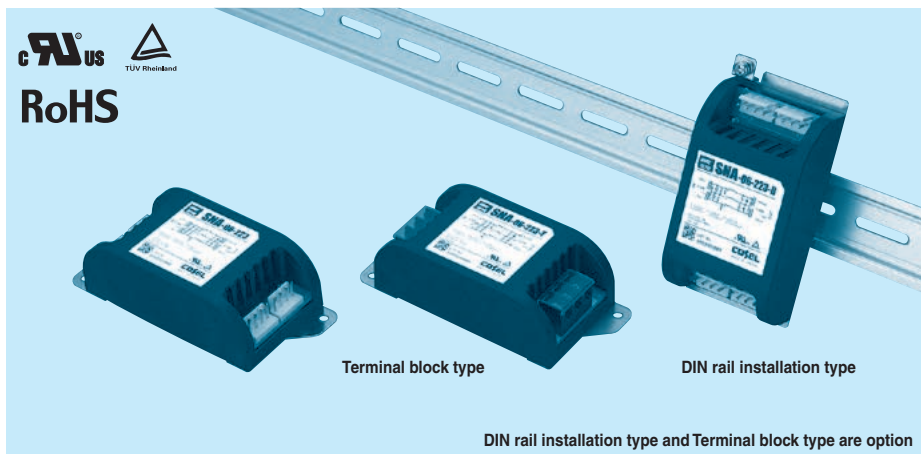
- ① Model Name
② Rated Current
③ Line to ground capacitor code: See table 1.1.

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.



Features of SNA series (6A)

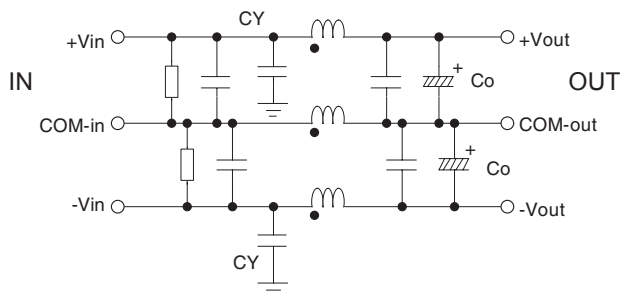
Ripple noise attenuation type for switch mode power supplies(DC)

- ± 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
		Interface: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 50M Ω min at room temperature and humidity
5	DC resistance	50m Ω 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 ² (2G), 3min. Period, 1hour each X, Y and Z axis
10	Impact	196.1m/s ² (20G), 11ms Once each X, Y and Z axis
11	Safety agency approvals	UL60950-1, C-UL (CSA60950-1), IEC60950-1
12	Case size (without projection) /Weight	52 X 35 X 117 mm [2.05 X 1.38 X 4.61 inches] (W X H X D) /150g max (Option : -D, -T, -DT refer to external view)

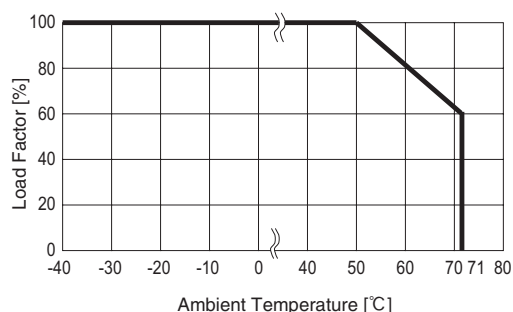
Circuit Diagram



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

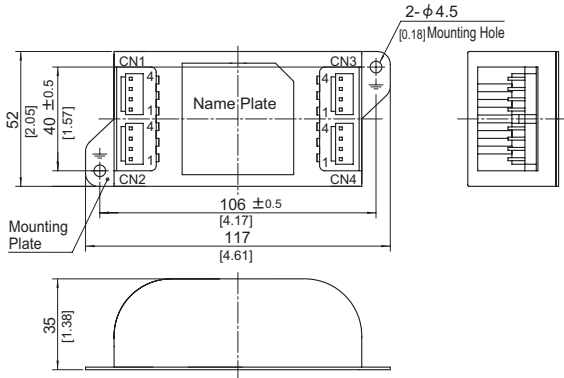
■ Expected life : 10 years

Derating Curve



External view

Standard Type



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

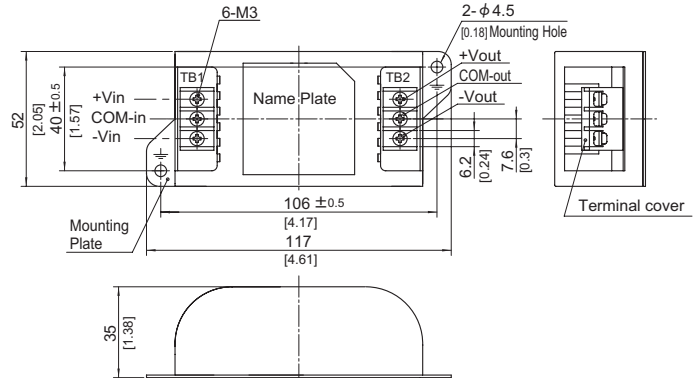
- ※ Tolerance : ± 1 [± 0.04]
- ※ Weight : 150g max
- ※ PCB Material /thickness : CEM3 /1.6mm [0.06 inches]
- ※ Mounting plate : Iron (surface finishing : nickel plating) $t=1.0$ [0.04]
- ※ Case : PBT
- ※ Dimensions in mm, []=inches
- ※ Keeping drawing current per pin below 5A for CN1 to CN4

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

(Mfr:J.S.T)

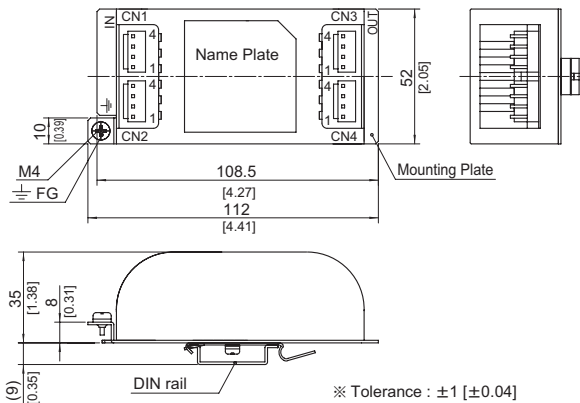
Option harness : Refer to Instruction Manual 4

Terminal block Type



- ※ Tolerance : ± 1 [± 0.04]
- ※ Weight : 160g max
- ※ PCB Material /thickness : CEM3 /1.6mm [0.06 inches]
- ※ Mounting plate : Iron (surface finishing : nickel plating) $t=1.0$ [0.04]
- ※ Case : PBT
- ※ Dimensions in mm, []=inches
- ※ Terminal block screw tightening torque M3:0.8N · m (8.5kgf · cm) max

DIN rail installation Type



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

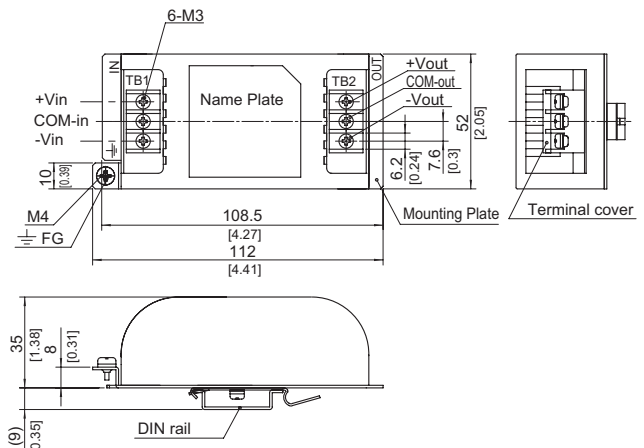
- ※ Tolerance : ± 1 [± 0.04]
- ※ Weight : 160g max
- ※ PCB Material /thickness : CEM3 / 1.6mm [0.06 inches]
- ※ Mounting plate : Iron (surface finishing : nickel plating) $t=1.0$ [0.04]
- ※ Case : PBT
- ※ Dimensions in mm, []=inches
- ※ Keeping drawing current per pin below 5A for CN1 to CN4

I/O Connector	Mating connector	Terminal
CN1-CN4	B4P-VH	VHR-4N
		Reel:SVH-21T-P1.1
		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 [± 0.04]
- ※ Weight : 170g max
- ※ PCB Material /thickness : CEM3 /1.6mm [0.06 inches]
- ※ Mounting plate : Iron (surface finishing : nickel plating) $t=1.0$ [0.04]
- ※ Case : PBT
- ※ Dimensions in mm, []=inches
- ※ Terminal block screw tightening torque M3:0.8N · m (8.5kgf · cm) max

■Note when installing the EM/EMC Filter on a DIN rail.

When the EM/EMC Filter is grounded through the DIN rail, the proper noise attenuation may not be achieved.

Be sure to connect the FG terminal of the EM/EMC Filter body to the earth.

