

# NAH series

NAH -10 -472 -□

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	Leakage Current (Input 125/250V 60Hz)	Line to ground capacitor (nominal value)
000	5 $\mu$ A/ 10 $\mu$ A max	Not Provided
101	12.5 $\mu$ A/ 25 $\mu$ A max	100pF
221	25 $\mu$ A/ 50 $\mu$ A max	220pF
331	37.5 $\mu$ A/ 75 $\mu$ A max	330pF
471	50 $\mu$ A/100 $\mu$ A max	470pF
681	75.5 $\mu$ A/150 $\mu$ A max	680pF
102	0.13mA/0.25mA max	1000pF
222	0.25mA/0.5 mA max	2200pF
332	0.38mA/0.75mA max	3300pF
472	0.5 mA/1.0 mA max	4700pF

\* When the line to ground capacitor code is different, the attenuation characteristic is different.

- ④ Options
- D: DIN rail installation type

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



The terminal cover is retracted inside the unit



DIN rail installation type is option

## Features of NAH series

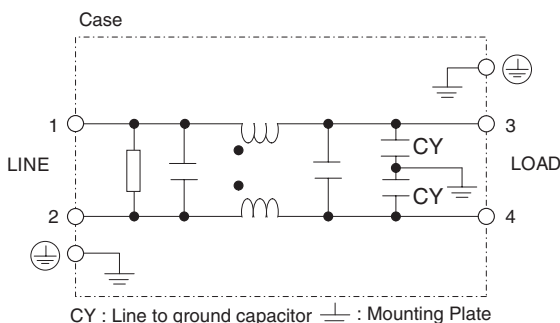
### Ultra high-attenuation type of common mode noise from 10kHz to 1MHz

- Single Phase 250 VAC
- Push down type terminal block

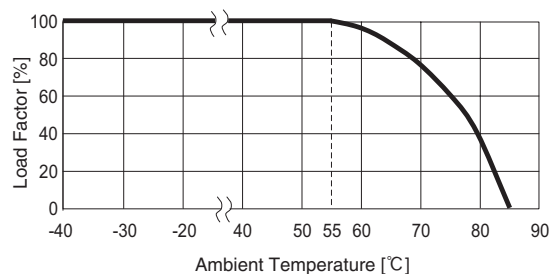
### Specifications

No.	Items	NAH-06-472	NAH-10-472	NAH-16-472	NAH-20-472	NAH-30-472
1	Rated Voltage[V]	AC 1 $\phi$ 250 / DC250				
2	Rated Current[A]	6	10	16	20	30
3	Test Voltage (Terminal-Mounting Plate)	2,500 VAC (Cutoff Current = 20mA), 1minute at room temperature and humidity				
4	Isolation Resistance (Terminal-Mounting Plate)	500 VDC 100M $\Omega$ min at room temperature and humidity				
5	Leakage current 125/250V 60Hz	0.5mA/1.0mA max				
6	Voltage drop	1.0V max				
7	Safety agency approval temperatures	-25 to +85°C (Refer to Derating Curve)				
8	Operating temperature	-40 to +85°C (Refer to Derating Curve)				
9	Operating humidity	20 to 95%RH (Non condensing)				
10	Storage temperature/humidity	-40 to +85°C/20 to 95%RH (Non condensing)				
11	Vibration	10 to 55Hz, 19.6m/s <sup>2</sup> (2G), 3min. Period, 1hour each X, Y and Z axis				
12	Impact	196.1m/s <sup>2</sup> (20G), 11ms Once each X, Y and Z axis				
13	Safety agency approvals	UL1283, CSA C22.2 No.8 (C-UL), DIN EN60939 VDE0565 Teil3-1, ENEC (At only AC input)				
14	Case size (without projection) /Weight	53 X 41 X 92 mm [2.09 X 1.61 X 3.62 inches] (W X H X D) /300g max (Option : -D refer to external view)				

### Circuit Diagram



### Derating Curve

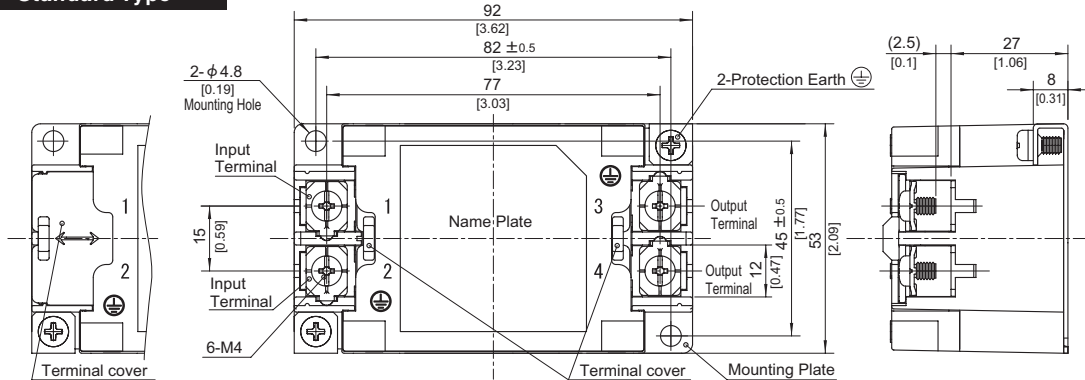


**External view**

As this product is adopted push-down type terminal block, this appearance is as follows.

- ① The terminal cover is retracted inside the unit.
- ② The screws for connecting the terminals are held in the up right position.

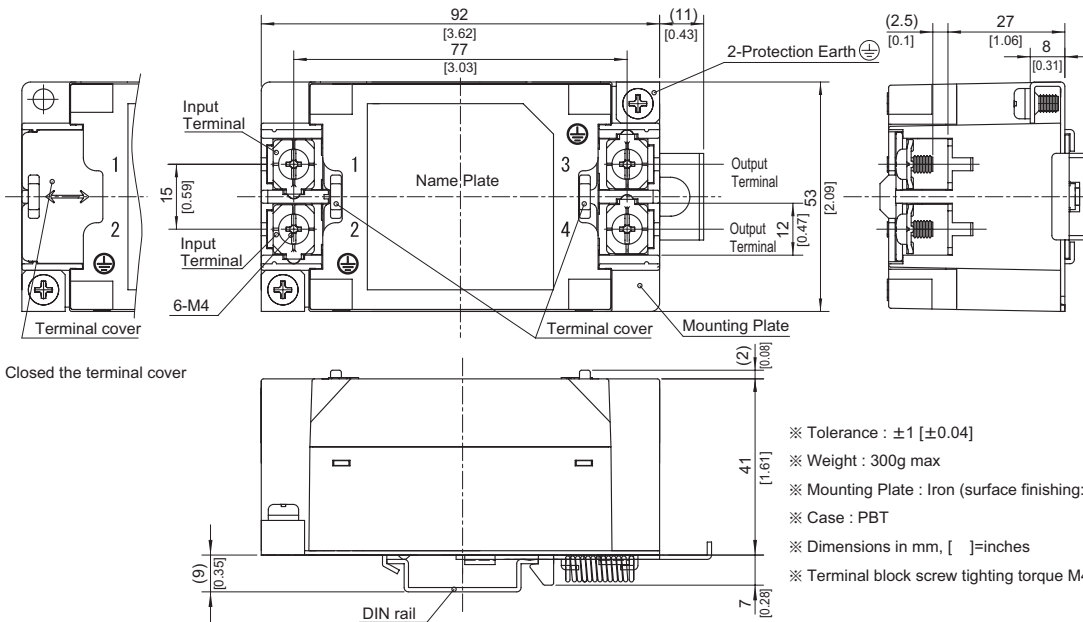
**Standard Type**



※ Closed the terminal cover

- ※ Tolerance : ±1 [±0.04]
- ※ Weight : 300g max
- ※ Mounting Plate : Iron (surface finishing:nickel plating) t=1.0 [0.04]
- ※ Case : PBT
- ※ Dimensions in mm, [ ]=inches
- ※ Terminal block screw tightening torque M4:1.6N · m (16.9kgf · cm) max

**DIN rail installation Type**



※ Closed the terminal cover

- ※ Tolerance : ±1 [±0.04]
- ※ Weight : 300g max
- ※ Mounting Plate : Iron (surface finishing:nickel plating) t=1.0 [0.04]
- ※ Case : PBT
- ※ Dimensions in mm, [ ]=inches
- ※ Terminal block screw tightening torque M4:1.6N · m (16.9kgf · cm) max

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

When the EMI/EMC 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/EMC Filter body to the earth. It can connect the ground to either one only.

