

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.

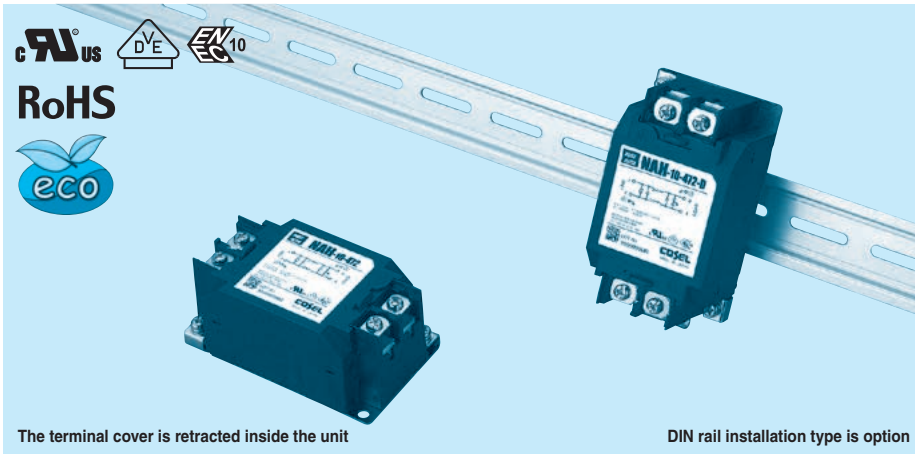
table 1.1 Line to ground capacitor code

| Code | Leakage Current (Input 125/250V 60Hz) | Line to ground capacitor (nominal value) |
|------|---------------------------------------|--|
| 000 | 5 μ A/ 10 μ A max | Not Provided |
| 101 | 12.5 μ A/ 25 μ A max | 100pF |
| 221 | 25 μ A/ 50 μ A max | 220pF |
| 331 | 37.5 μ A/ 75 μ A max | 330pF |
| 471 | 50 μ A/100 μ A max | 470pF |
| 681 | 75.5 μ A/150 μ 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

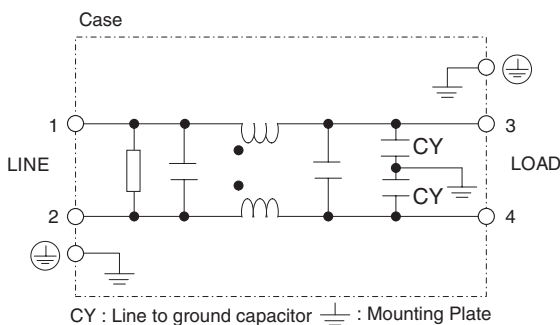
Ultra high-attenuation type of common mode noise from 10kHz to 1MHz

- Single Phase 250 VAC
- Push down type terminal block

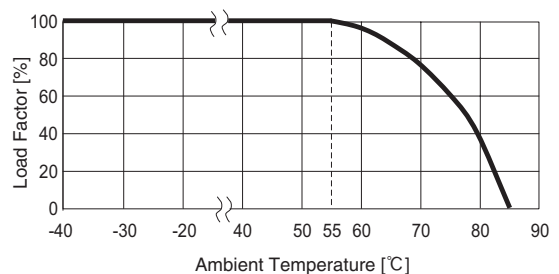
Specifications

| No. | Items | NAH-06-472 | NAH-10-472 | NAH-16-472 | NAH-20-472 | NAH-30-472 |
|-----|--|--|------------|------------|------------|------------|
| 1 | Rated Voltage[V] | AC 1 ϕ 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 Ω 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 ² (2G), 3min. Period, 1hour each X, Y and Z axis | | | | |
| 12 | Impact | 196.1m/s ² (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

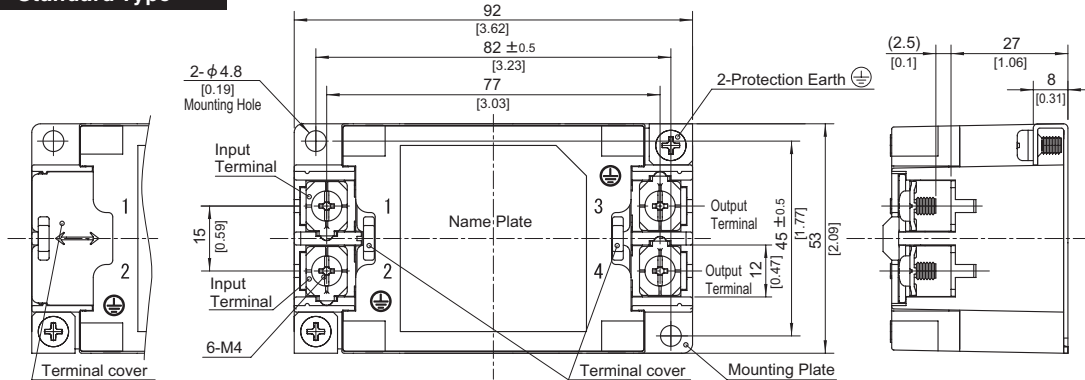


External view

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.

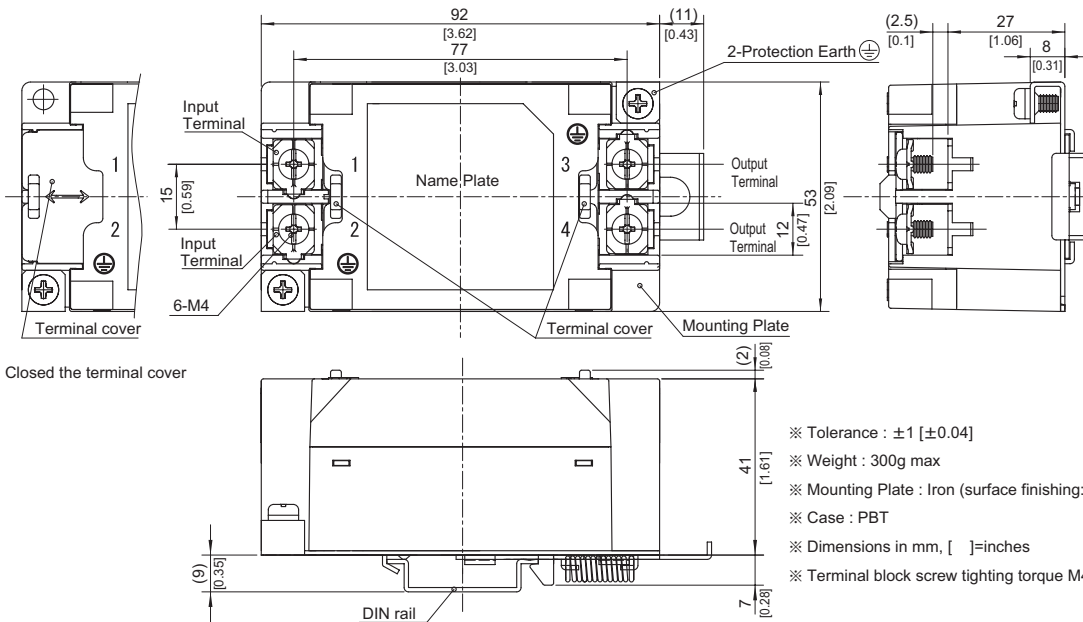
Standard Type



※ 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.

