

# NAP



## Features

- Single Phase 250 VAC
- Selectable leakage current
- Quick and easy push-down terminal. Just connect the wires, push down and tighten the screws with a screwdriver.
- DIN rail installation (option)
- Outside Impulse high-attenuation type
- RoHS Compliant

| Model      | Rated Voltage [V] | Rated Current [A] |
|------------|-------------------|-------------------|
| NAP-06-472 | AC 1- 250 / DC250 | 6                 |
| NAP-10-472 | AC 1- 250 / DC250 | 10                |
| NAP-16-472 | AC 1- 250 / DC250 | 16                |
| NAP-20-472 | AC 1- 250 / DC250 | 20                |
| NAP-30-472 | AC 1- 250 / DC250 | 30                |
| NAP-04-472 | AC 1- 250 / DC250 | 4                 |

# NAP series

NAP -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<br>(Input 125/250V 60Hz) | Line to ground<br>capacitor<br>(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                                         |

\*1 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.

RoHS

The terminal cover is retracted inside the unit

DIN rail installation type is option

## Features of NAP series

### High-voltage pulses high-attenuation type

· Single Phase 250 VAC

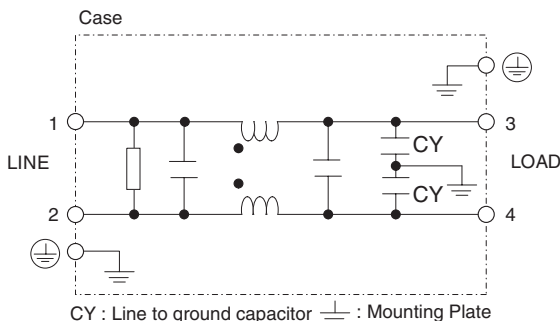
· Quick and easy push-down terminal

Just connect the wires, push down and tighten the screws with a screwdriver

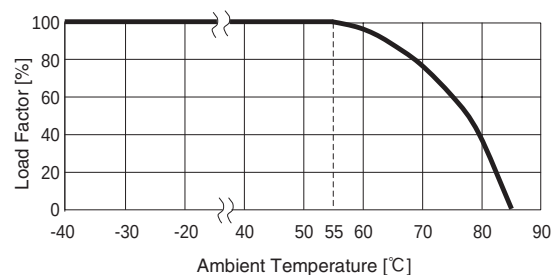
### Specifications

| No. | Items                                          | NAP-04-472                                                                           | NAP-06-472 | NAP-10-472 | NAP-16-472 | NAP-20-472 | NAP-30-472 |
|-----|------------------------------------------------|--------------------------------------------------------------------------------------|------------|------------|------------|------------|------------|
| 1   | Rated Voltage[V]                               | AC 1 $\phi$ 250 / DC250                                                              |            |            |            |            |            |
| 2   | Rated Current[A]                               | 4                                                                                    | 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 $\Omega$ minute 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 EN133200 VDE0565 Teil3-1, ENEC (At only AC input) |            |            |            |            |            |
| 14  | Case size (without projection) /Mass           | 53×41×92 mm (W×H×D) /300g max (Option : -D refer to external view)                   |            |            |            |            |            |

### Circuit Diagram



### Derating Curve

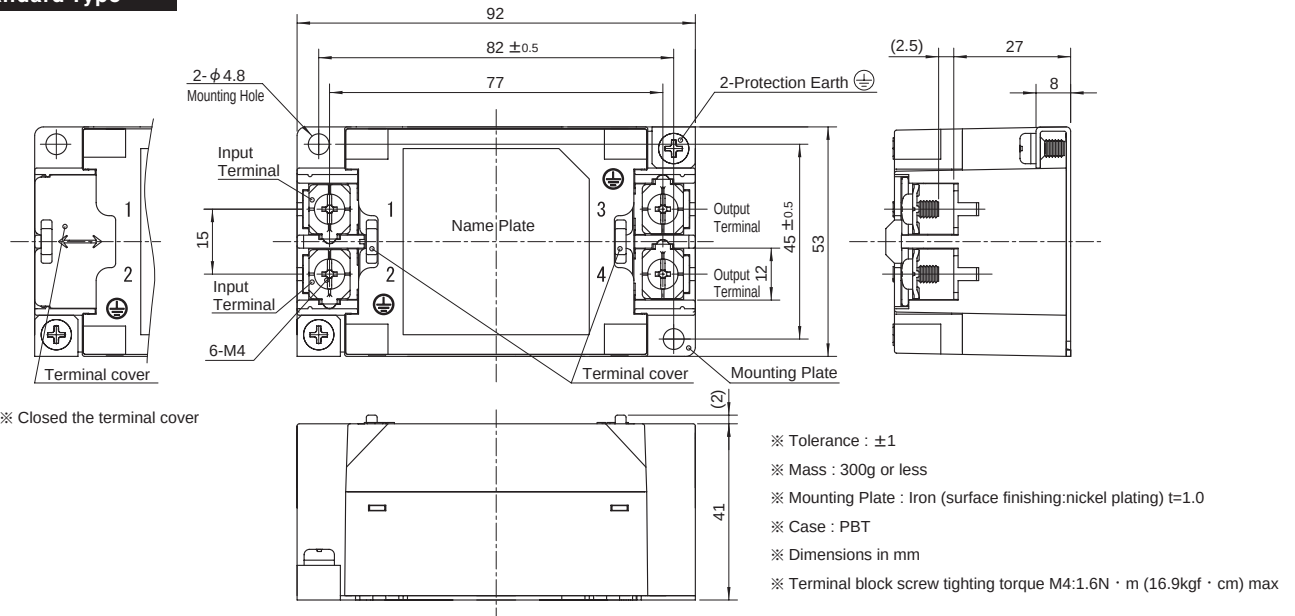


## External view

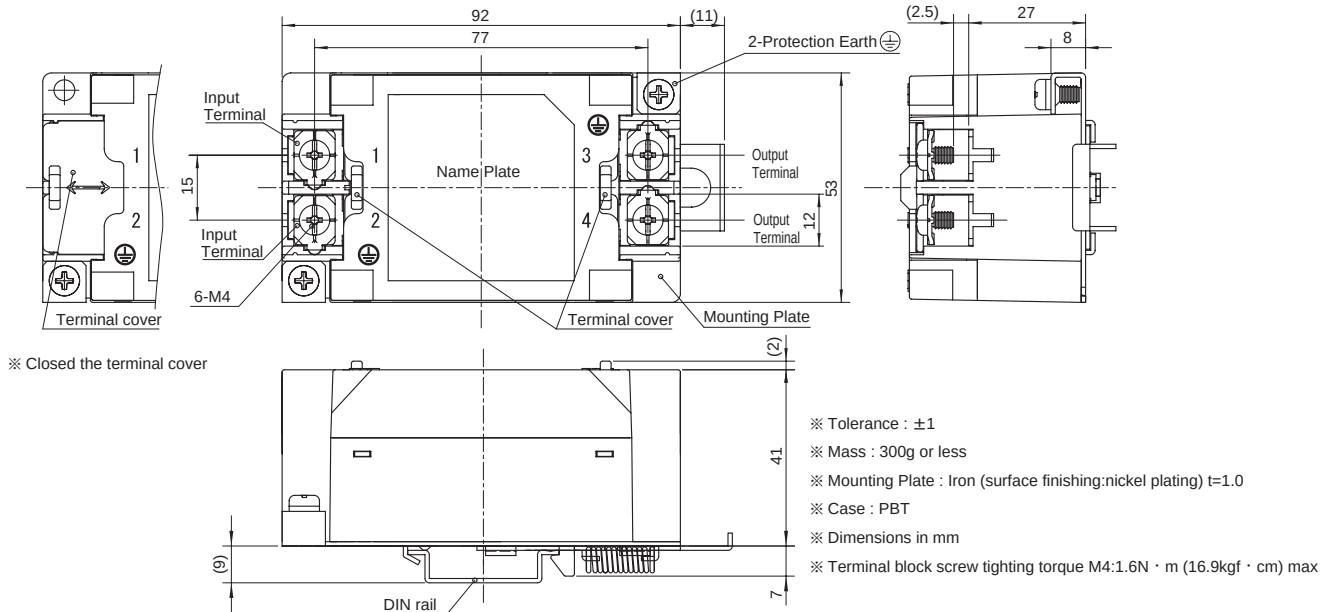
This product is shipped in the following condition, because it is equipped with push-down terminals.

- 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



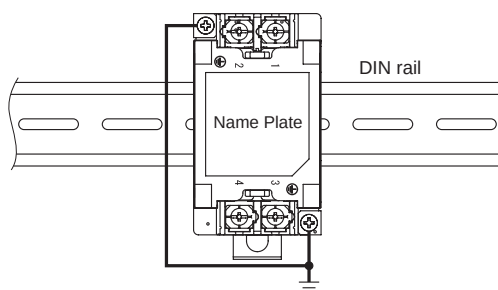
### DIN rail installation Type



### ■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 protection earth (PE) of the noise filter body to the earth.



## 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