

# NAC series

NAC -10 -472 -□

① ② ③ ④

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

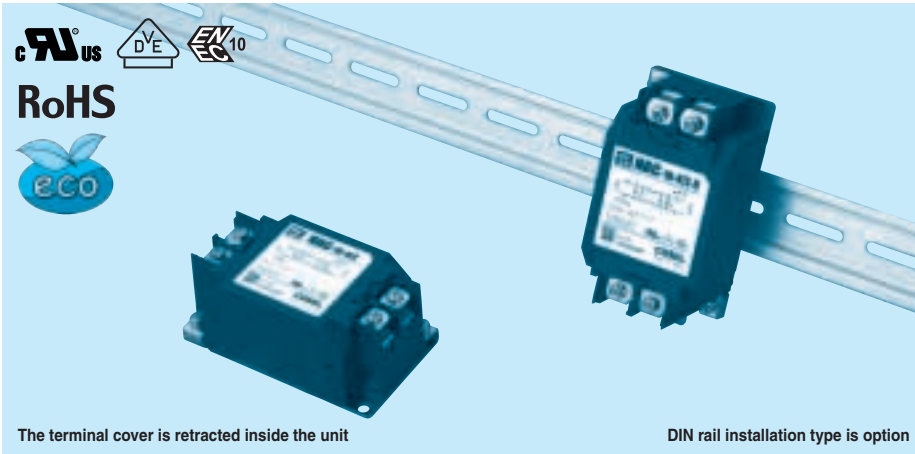
table 1.1 Line to ground capacitor code

| Code | Leakage Current (Input 125/250V 60Hz) | Line to ground capacitor (nominal value) |
|------|---------------------------------------|--|
| 681  | 75.5 μA / 150 μA 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 NAC series

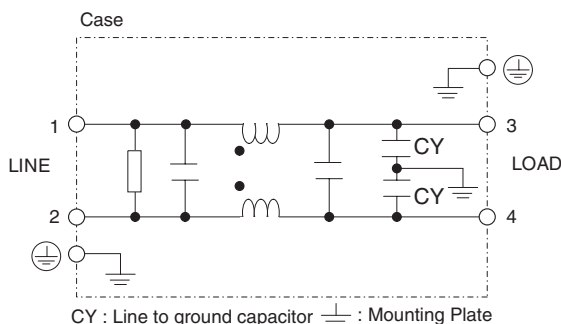
### High-attenuation type of common mode noise from 150kHz to 1MHz

- Single Phase 250 VAC
- Push down type terminal block

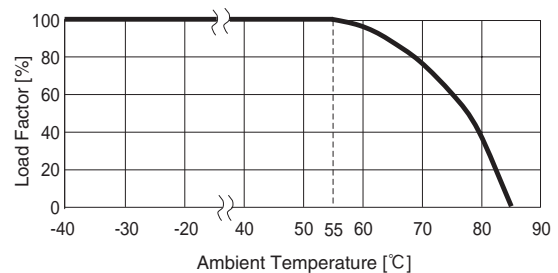
## Specifications

| No. | Items  | NAC-04-472   | NAC-06-472 | NAC-10-472 | NAC-16-472 | NAC-20-472 | NAC-30-472 |
|-----|--|--|------------|------------|------------|------------|------------|
| 1   | Rated Voltage[V]                               | AC 1 φ 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 100MΩ 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

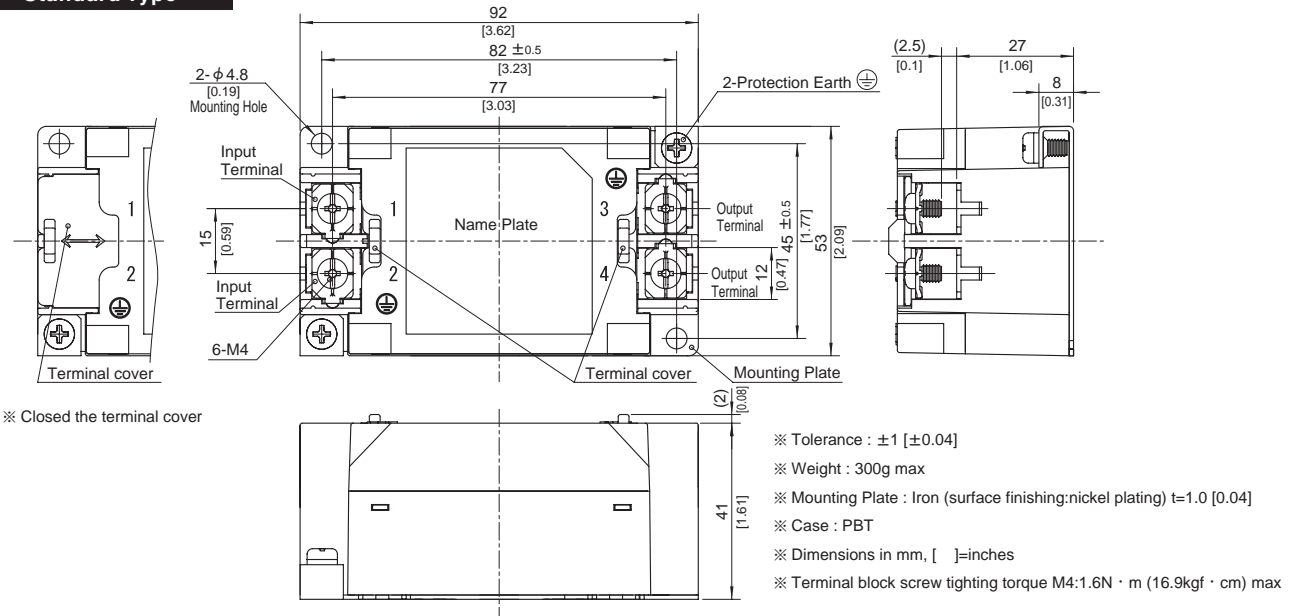


## External view

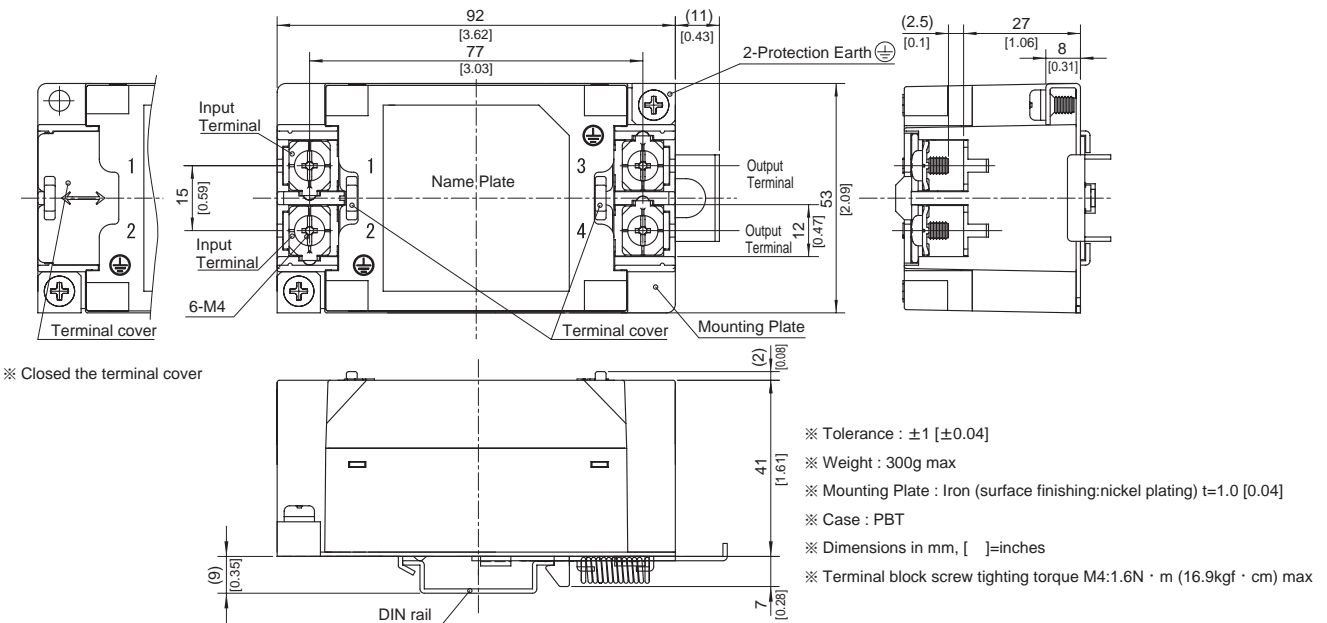
As this product is adopted push-down type terminal block, this appearance is as follows.

- 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



### DIN rail installation Type



### ■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.

