

## 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



RoHS



The terminal cover is retracted inside the unit

DIN rail installation type is option

- 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                                   |

\*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.

## 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 X 41 X 92 mm (W X H X D) /300g max (Option : -D refer to external view)           |            |            |            |            |            |

### Circuit Diagram



### Derating Curve

