

# NBC series

NBC -10 -472 -□

① ② ③ ④

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

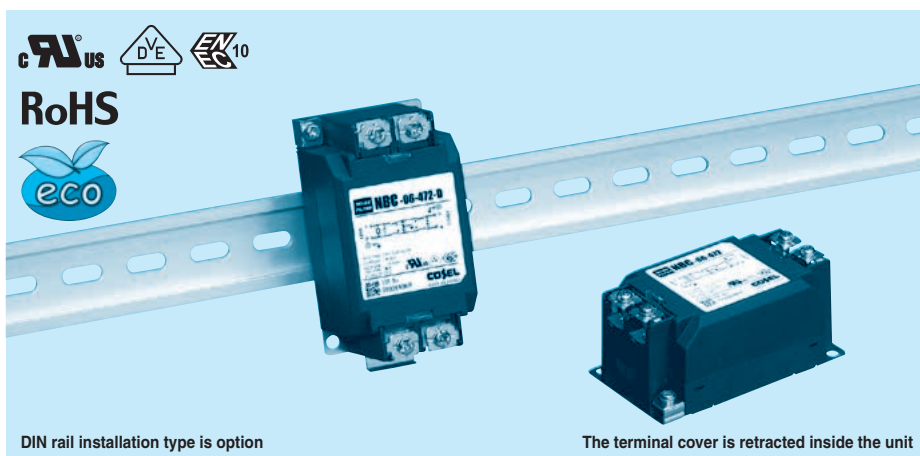
table 1.1 Line to ground capacitor code

Code	Leakage Current (Input 125/250V 60Hz)	Line to ground capacitor (nominal value)
681	75.5 $\mu$ 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.



DIN rail installation type is option

The terminal cover is retracted inside the unit

## Features of NBC series

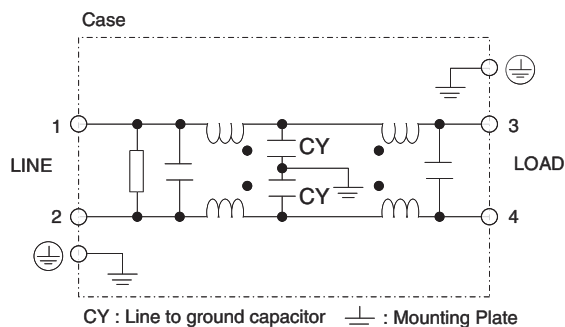
### High-attenuation type of common mode noise from 150kHz to 1MHz (2-stage filter)

- Single Phase 250 VAC
- Push down type terminal block

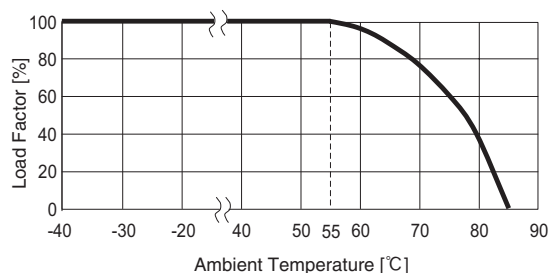
## Specifications

No.	Items	NBC-06-472	NBC-10-472	NBC-16-472	NBC-20-472	NBC-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) /270g max (Option : -D refer to external view)				

## Circuit Diagram



## Derating Curve

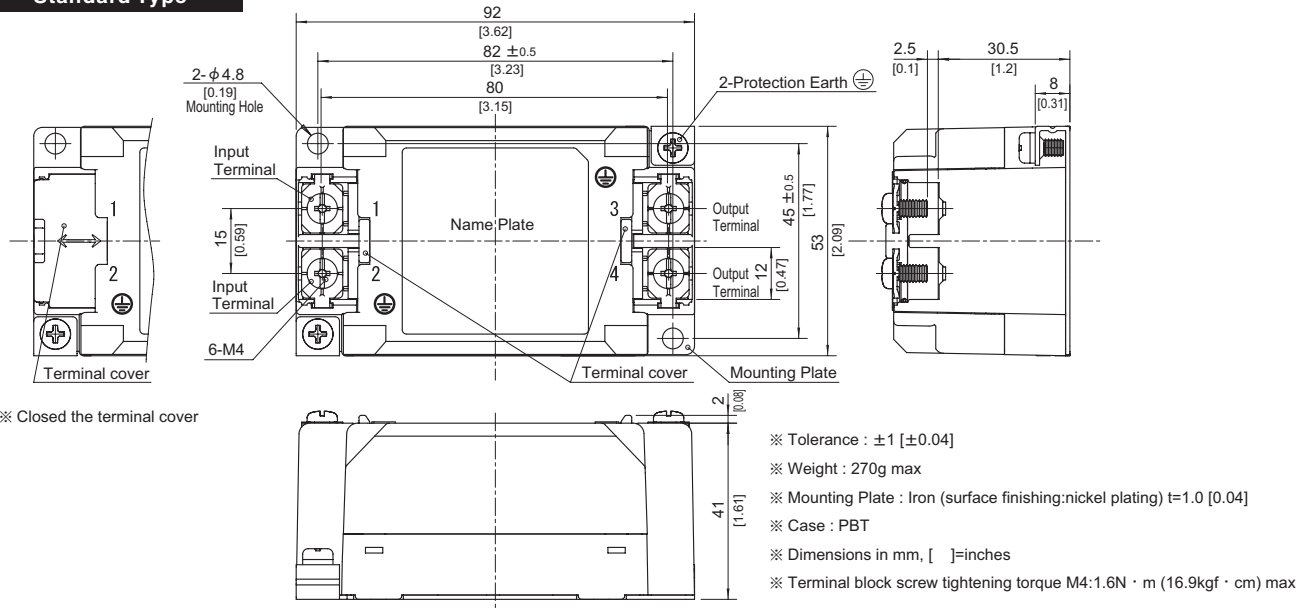


## External view

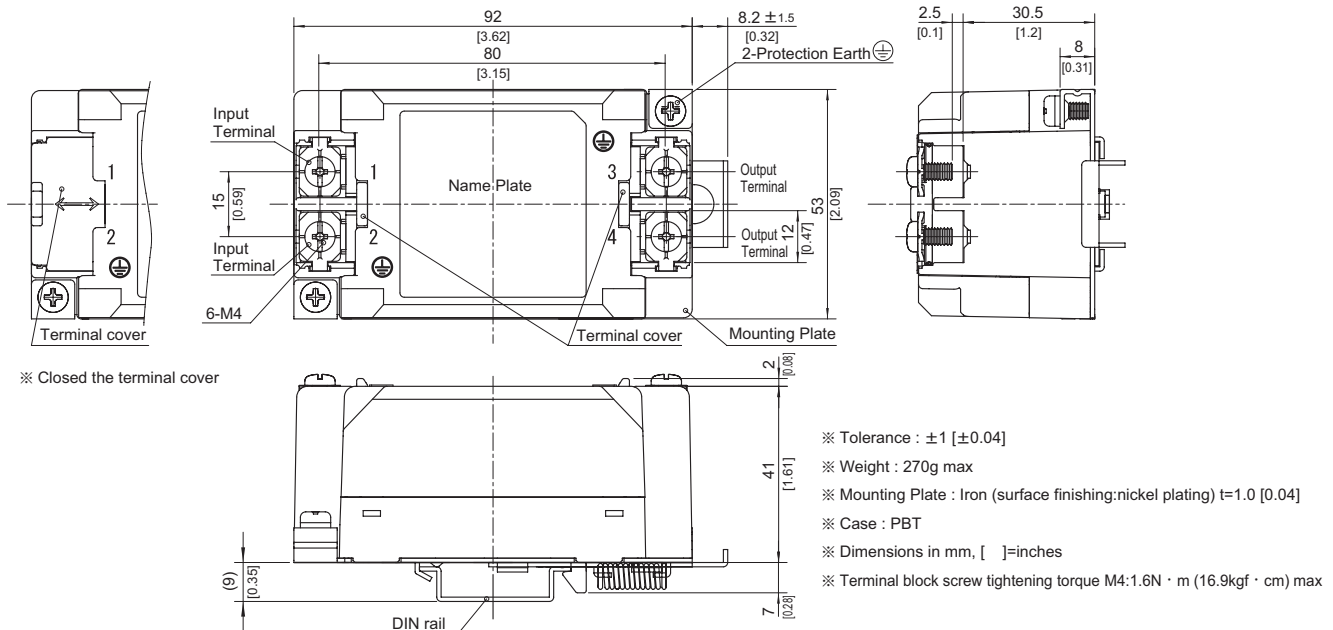
As this product is adopted push-down type terminal block, this appearance is as follows.

- ①The terminal cover is retracted inside the unit.
- ②The 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. It can connect the ground to either one only.

