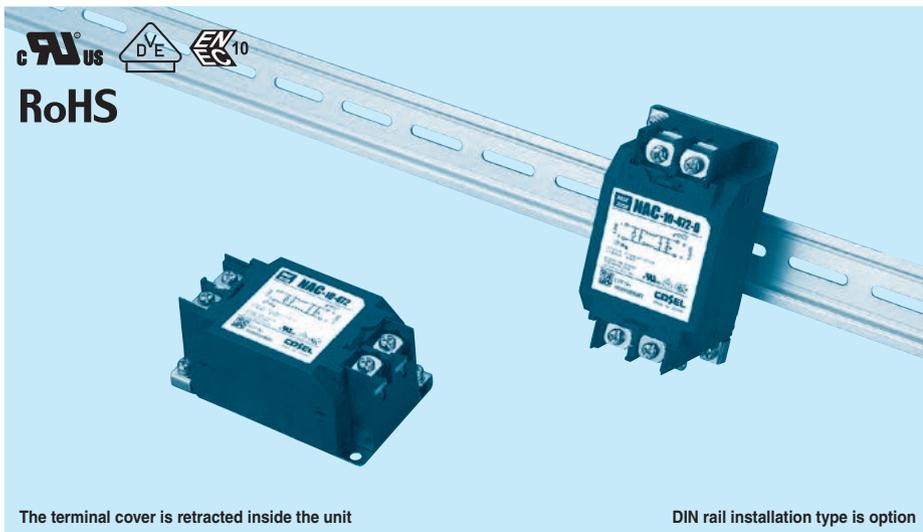


# NAC/NAM/NAH/NAP series(4-30A)

NAC -10 -472 -□

① ② ③ ④



The terminal cover is retracted inside the unit

DIN rail installation type is option

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

table 1.1 Line to ground capacitor code

Code	N A C	N A A	N A H	N A P	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	●	●	●	●	0.13 mA / 0.25mA max	1,000pF
222	●	●	●	●	0.25 mA / 0.5 mA max	2,200pF
332	●	●	●	●	0.38 mA / 0.75mA max	3,300pF
472	●	●	●	●	0.5 mA / 1.0 mA max	4,700pF

\* When the line to ground capacitor code is different, the attenuation characteristic is different.

- ④ Option
- D: DIN rail installation type

\* The dimensions change when the option is set. Refer to External view.

## Features of NAC/NAM/NAH/NAP series

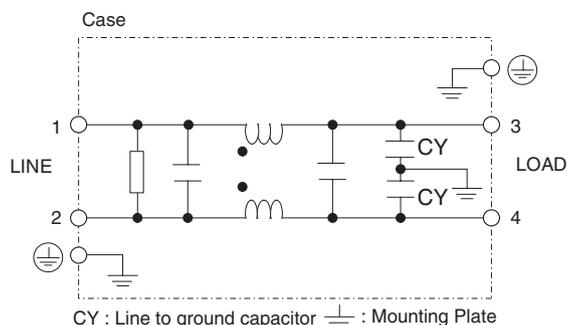
- Single Phase 250VAC (1-Stage filter)
  - Quick and easy push-down terminal
- Just connect the wires, push-down and tighten the screws with a screwdriver

- NAC : High-attenuation type from 150kHz to 1MHz
- NAM: Low leakage current type
- NAH: Ultra high-attenuation type from 9kHz to 1MHz
- NAP : Outside impulse high-attenuation type

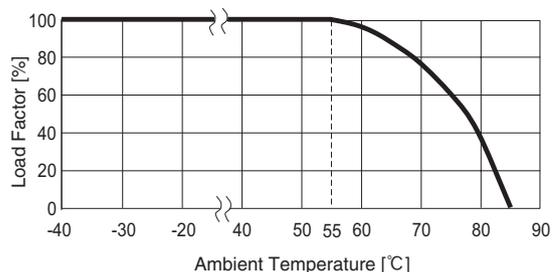
## Specifications

No.	Items	NAC-04-472	NAC-06-472	NAC-10-472	NAC-16-472	NAC-20-472	NAC-30-472
		NAM-04-000	NAM-06-000	NAM-10-000	NAM-16-000	NAM-20-000	NAM-30-000
		-	NAH-06-472	NAH-10-472	NAH-16-472	NAH-20-472	NAH-30-472
		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 $\Omega$ min at room temperature and humidity					
5	Leakage current	Refer to table 1.1					
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	53X41X92 mm [2.09X1.61X3.62 inches] (W X H X D) /300g max (Option : -D refer to external view)					

## Circuit Diagram



## Derating Curve

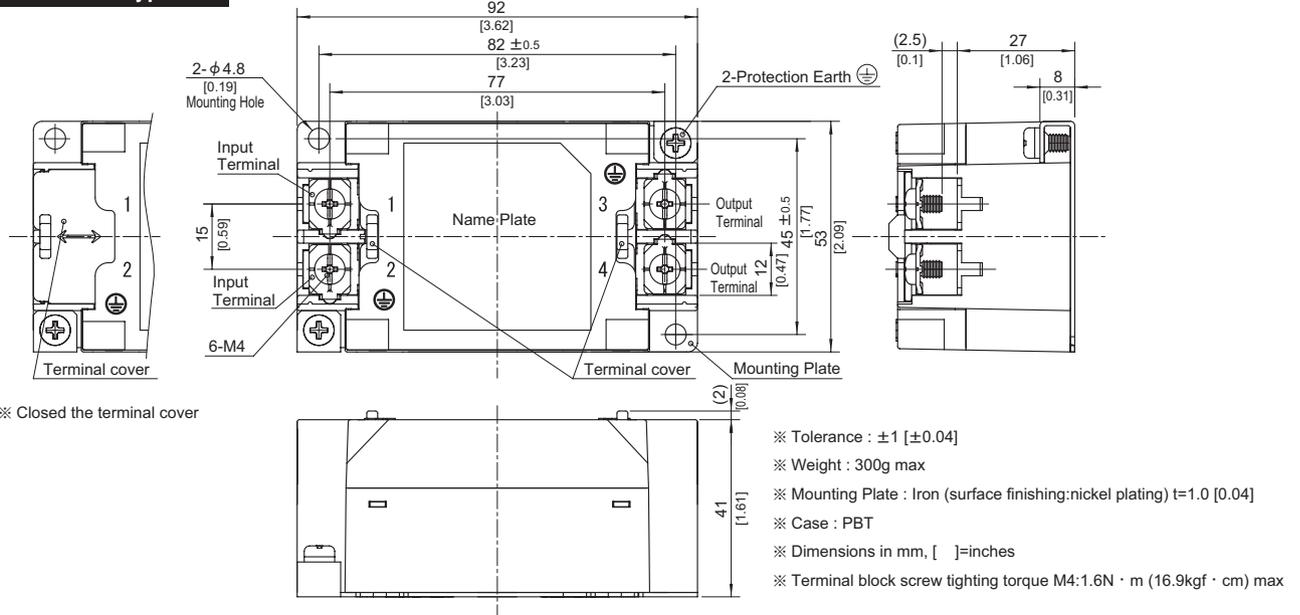


## External view

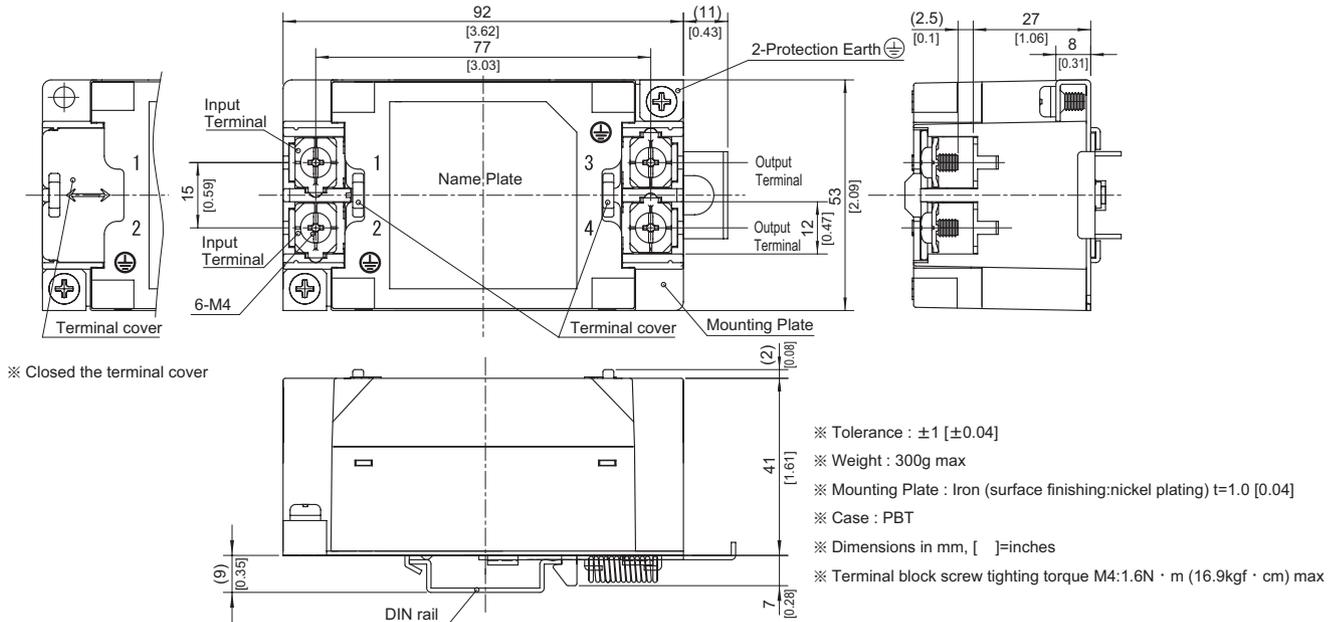
This product is shipped in the following condition, because it is equipped with push-down terminals.

- 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



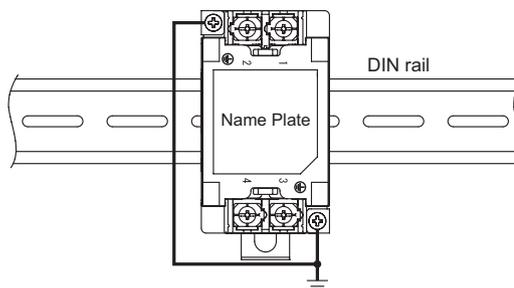
### DIN rail installation Type



### ■Note when installing the 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.

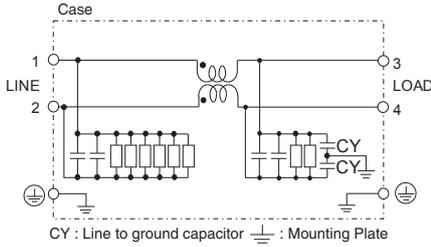
Be sure to connect the protection earth (PE) of the EMI/EMC Filter body to the earth. At least one PE connection is required.



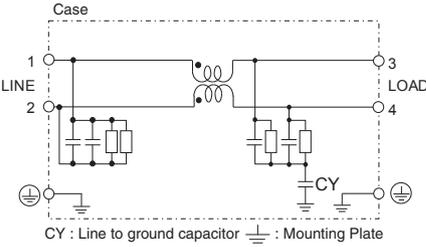


## Circuit Diagram

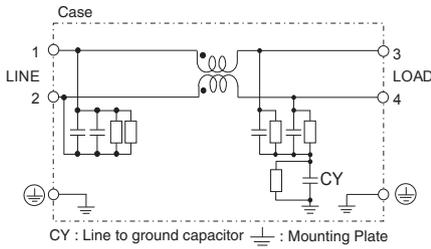
(1) Line to ground capacitor code :000,471,222,472,223



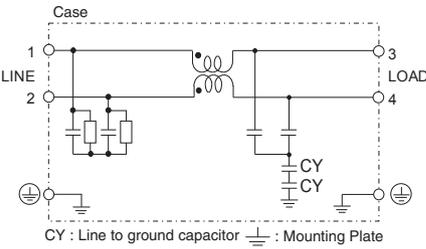
(2) Line to ground capacitor code :683



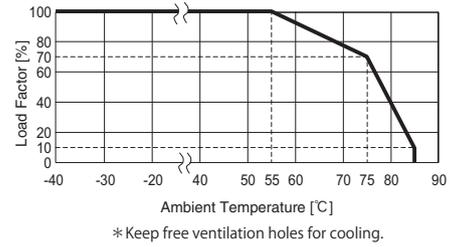
(3) Line to ground capacitor code :224,155



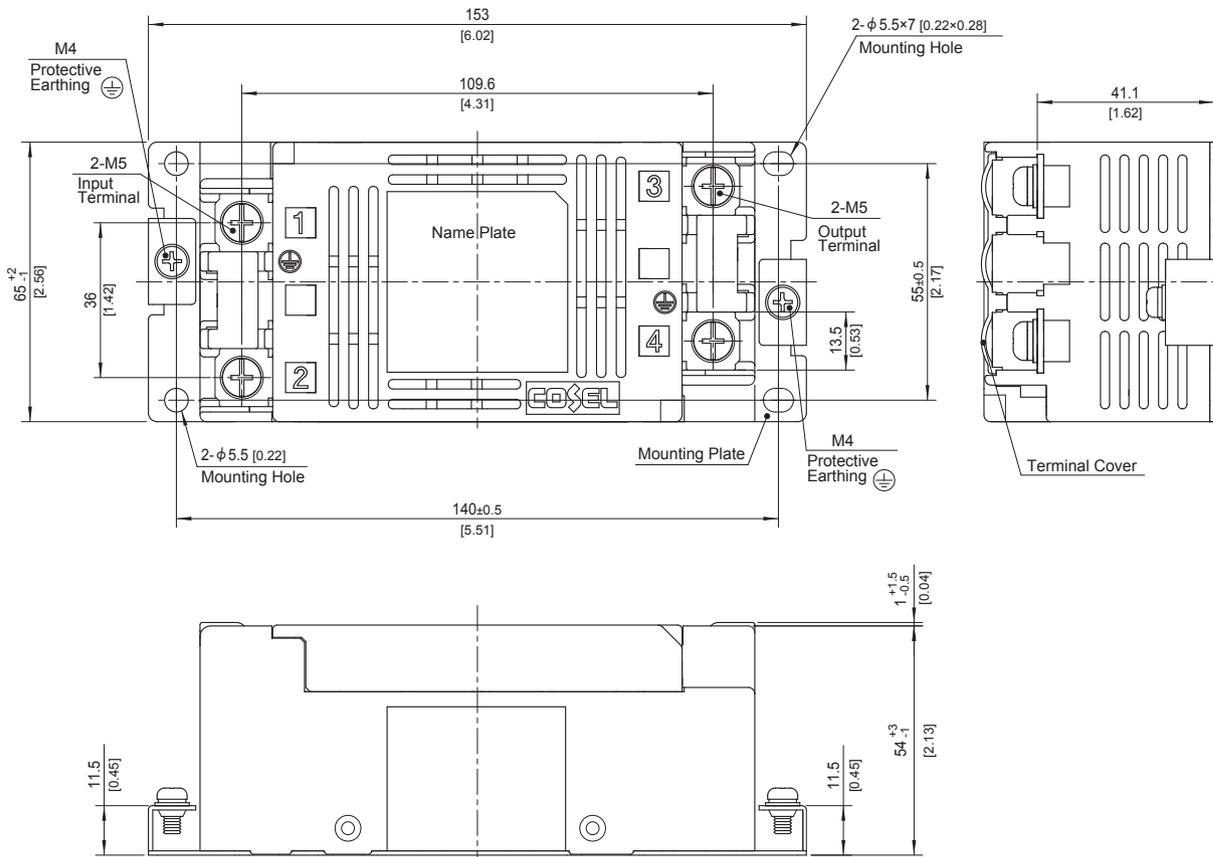
(4) Line to ground capacitor code :103,223,683  
Option : F



## Derating Curve



## External view



- ※ Dimensions in mm, [ ]=inches
- ※ Tolerance:  $\pm 1$  [ $\pm 0.04$ ]
- ※ Weight: 750g max
- ※ Mounting Plate: Hot-dip Galvanized Steel board t=1.0 [0.04]
- ※ Case Material: PBT
- ※ Terminal block screw tightening torque M5: 3.0N·m max
- ※ Protective Earthing (PE) screw tightening torque M4 :1.6N·m max
- ※ Can not be mounted upside-down. (mounted the top surface)
- ※ Keep free ventilation holes for cooling.
- ※ Can be mounted using the 2 corner mounting holes.