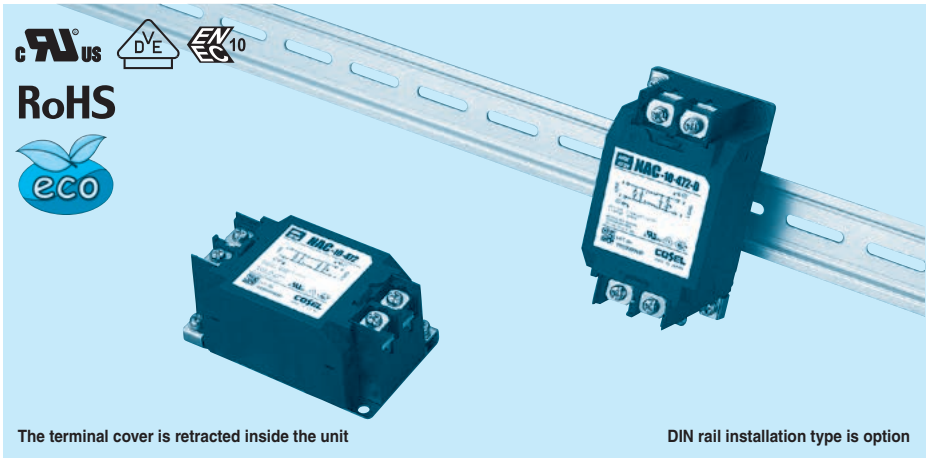
COSEL High-attenuation type of common mode noise from 150kHz to 1MHz

NAC series

Ordering information

NAC -10 -472 -□

① ② ③ ④



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

table1.1 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.

④Options
D:DIN rail installation type

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

Features of NAC series

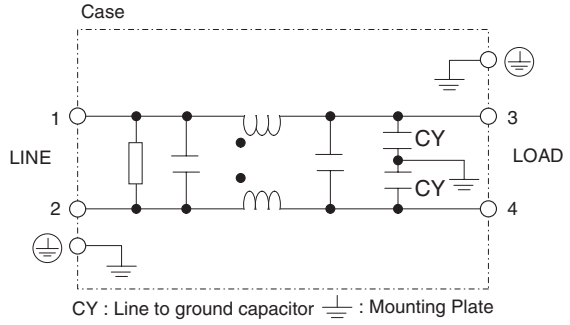
High-attenuation type of common mode noise from 150kHz to 1MHz

- Single Phase 250 VAC
- Push down type terminal block

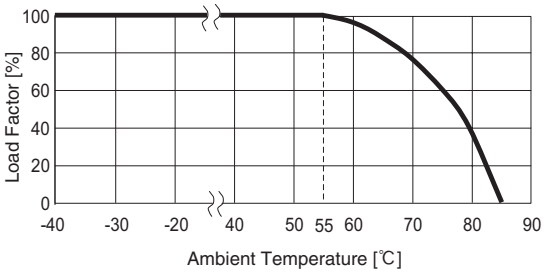
Specifications

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 1φ 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℃ (Refer to Derating Curve)					
8	Operating temperature	-40 to +85℃ (Refer to Derating Curve)					
9	Operating humidity	20 to 95%RH (Non condensing)					
10	Storage temperature/humidity	-40 to +85℃/20 to 95%RH (Non condensing)					
11	Vibration	10 to 55Hz, 19.6m/s² (2G), 3min. Period, 1hour each X, Y and Z axis					
12	Impact	196.1m/s² (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	53×41×92 mm [2.09×1.61×3.62 inches] (W×H×D) /300g max (Option : -D refer to external view)					

Circuit Diagram



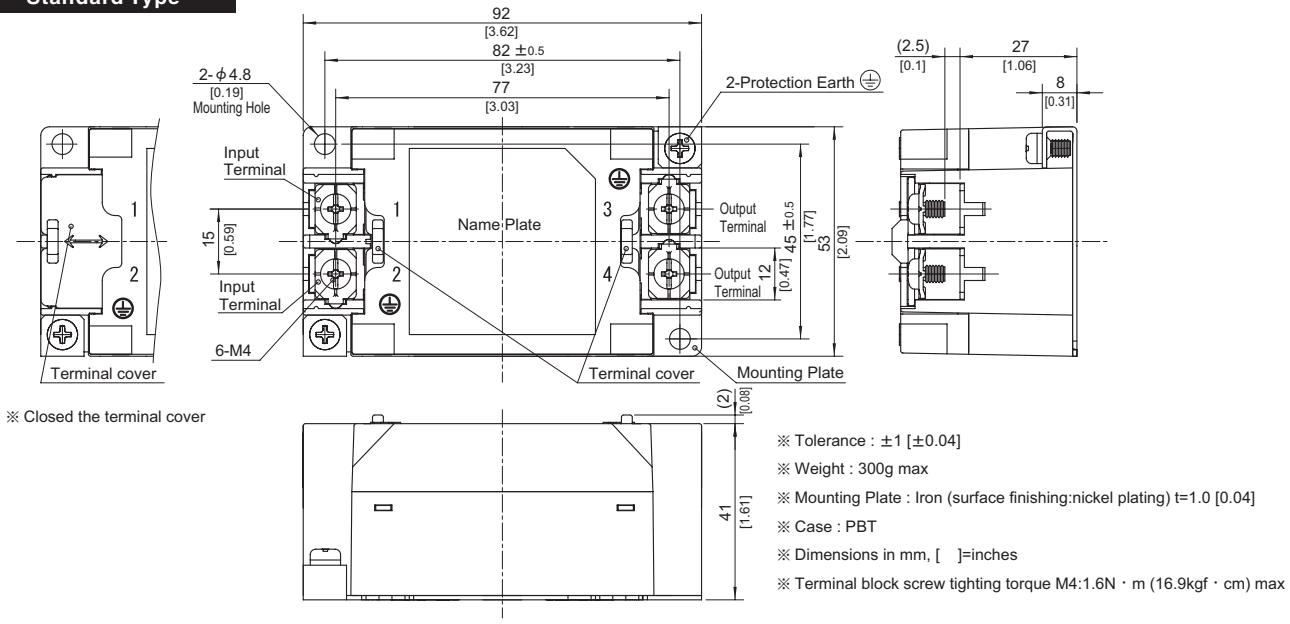
Derating Curve



External view

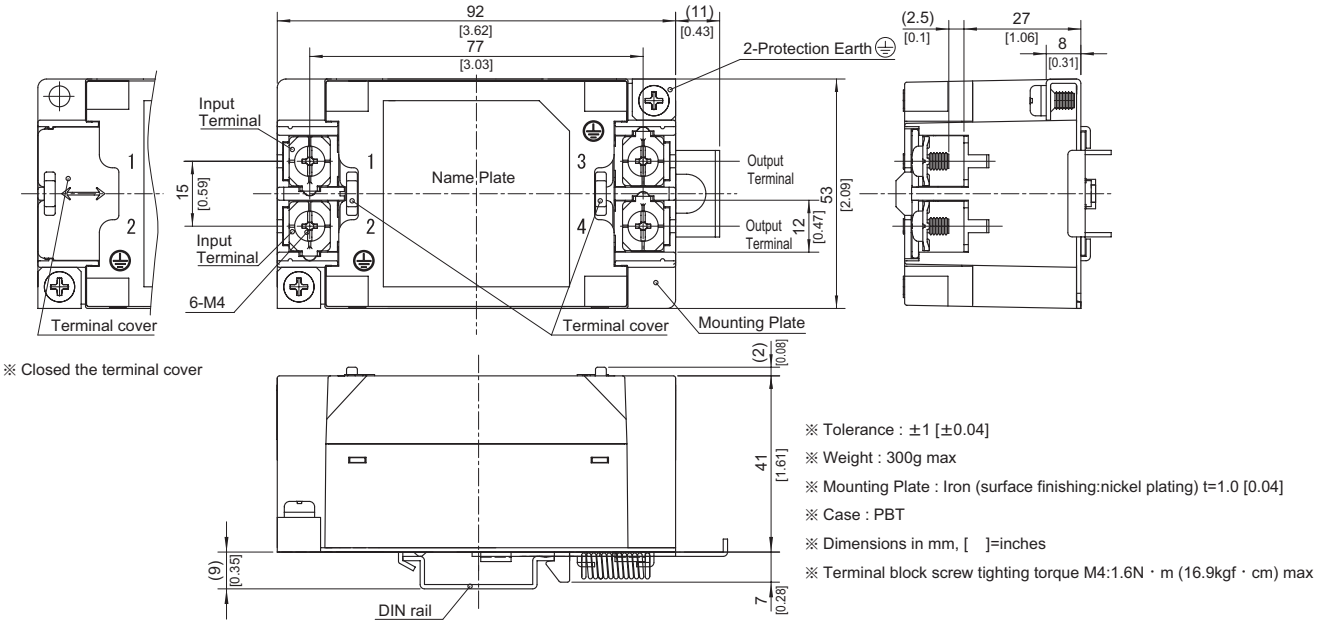
As this product is adopted push-down type terminal block, this appearance is as follows.
①The terminal cover is retracted inside the unit.
②The screws for connecting the terminals are held in the up right position.

Standard Type



※ Tolerance : ±1 [±0.04]
※ Weight : 300g max
※ Mounting Plate : Iron (surface finishing:nickel plating) t=1.0 [0.04]
※ Case : PBT
※ Dimensions in mm, [ ]=inches
※ Terminal block screw tighting torque M4:1.6N・m (16.9kgf・cm) max

DIN rail installation Type



※ Tolerance : ±1 [±0.04]
※ Weight : 300g max
※ Mounting Plate : Iron (surface finishing:nickel plating) t=1.0 [0.04]
※ Case : PBT
※ Dimensions in mm, [ ]=inches
※ Terminal block screw tighting torque M4:1.6N・m (16.9kgf・cm) max

■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.