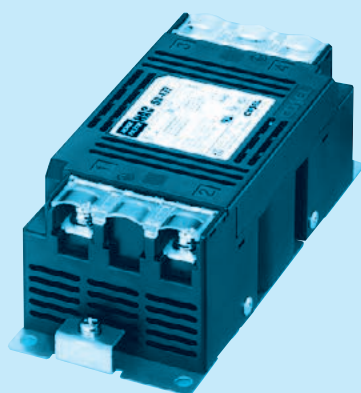


# NAC/NAM/NAH/NAP series (40,50,60A)

NAC -50 -472 -□

① ② ③ ④



- ① Series Name
  - ② Rated Current
  - ③ Line to ground capacitor code: Refer to table 1.1 and table 1.2.
  - ④ Option
- F: High input voltage (500VAC/600VDC)

table 1.1 Line to ground capacitor code (Standard)

Code	N A C	N A M	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
471	●	●	●	●	50 $\mu$ A/ 100 $\mu$ A max	470pF
222	●	●	●	●	0.25 mA/ 0.5 mA max	2,200pF
472	●	●	●	●	0.5 mA/ 1.0 mA max	4,700pF
223	●	●	●	●	1.25 mA/ 2.5 mA max	0.022 $\mu$ F
683	●	●	●	●	1.75 mA/ 3.5 mA max	0.068 $\mu$ F
224	●	●	●	●	6.0 mA/ 12.0 mA max	0.22 $\mu$ F
155	●	●	●	●	27.5 mA/ 55.0 mA max	1.5 $\mu$ F

table 1.2 Line to ground capacitor code (Option: F)

Code	N A C	N A M	N A H	N A P	Leakage Current (Input 250/500V 60Hz)	Line to ground capacitor (nominal value)
103	●	●	●	●	0.5 mA/ 1.0 mA max	0.01 $\mu$ F
223	●	●	●	●	1.0 mA/ 2.0 mA max	0.022 $\mu$ F
683	●	●	●	●	2.5 mA/ 5.0 mA max	0.068 $\mu$ F

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

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

- Single Phase 277VAC/300VDC (1-stage filter)  
This product is available 277VAC equipment in factory switchboards and building equipment
- Withstand voltage 4,000 VAC (Line to ground capacitor code -000 to -472)

- 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-40-472		NAC-50-472		NAC-60-472		
		NAM-40-000		NAM-50-000		NAM-60-000		
		NAH-40-472		NAH-50-472		NAH-60-472		
		NAP-40-472		NAP-50-472		NAP-60-472		
1	Rated Voltage	[VAC]	277 (voltage range : 305 max) 1 $\phi$ 50/60Hz [Option : F 500 (voltage range : 528 max) 1 $\phi$ 50/60Hz]					
		[VDC]	300 (voltage range:400 max) [Option : F 600]					
2	Rated Current[A]	40		50		60		
3	Test Voltage (Terminal-Mounting Plate)	4,000 VAC (Cutoff Current = 25mA), 1minute at room temperature and humidity *1 *2						
4	Isolation Resistance (Terminal-Mounting Plate)	500 VDC 100M $\Omega$ min at room temperature and humidity *3						
5	Leakage current	Refer to table 1.1 and table 1.2						
6	DC resistance	10m $\Omega$ max		6.0m $\Omega$ max		4.5m $\Omega$ 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	UL60939 [Overvoltage Category : III Altitude:3000m], CSA C22.2 No.8 (C-UL) EN60939 (DEMKO) [Overvoltage Category: III Altitude:3000m] , ENEC						
14	Case size (without projection) /Weight	65x54x153mm [2.56x2.13x6.02 inches] (WxHxD) / 750g max						

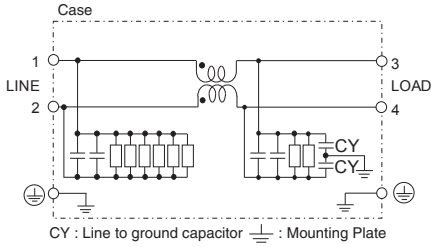
\*1 "NA□□□□□-F" : 2,500 VAC (Cutoff Current = 100mA) , 1 minute at room temperature and humidity.

\*2 Capacitor code "223", "683", "224" and "155" of "NA□□□□□" : 2,800VDC (Cutoff Current = 10mA) , 1 minute at room temperature and humidity.

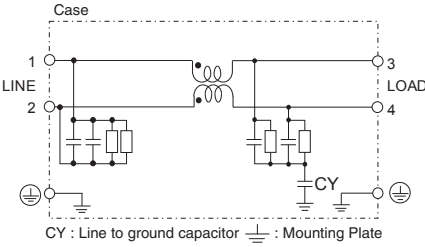
\*3 Capacitor code "224" and "155" : isolation resistance specification is deleted.

## Circuit Diagram

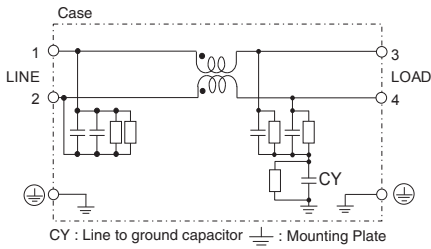
(1) Line to ground capacitor code :000,471,222,472,223



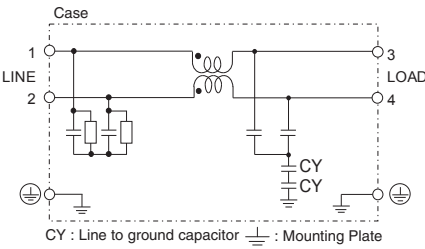
(2) Line to ground capacitor code :683



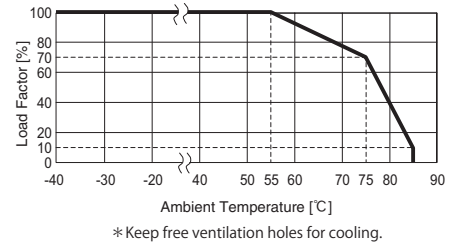
(3) Line to ground capacitor code :224,155



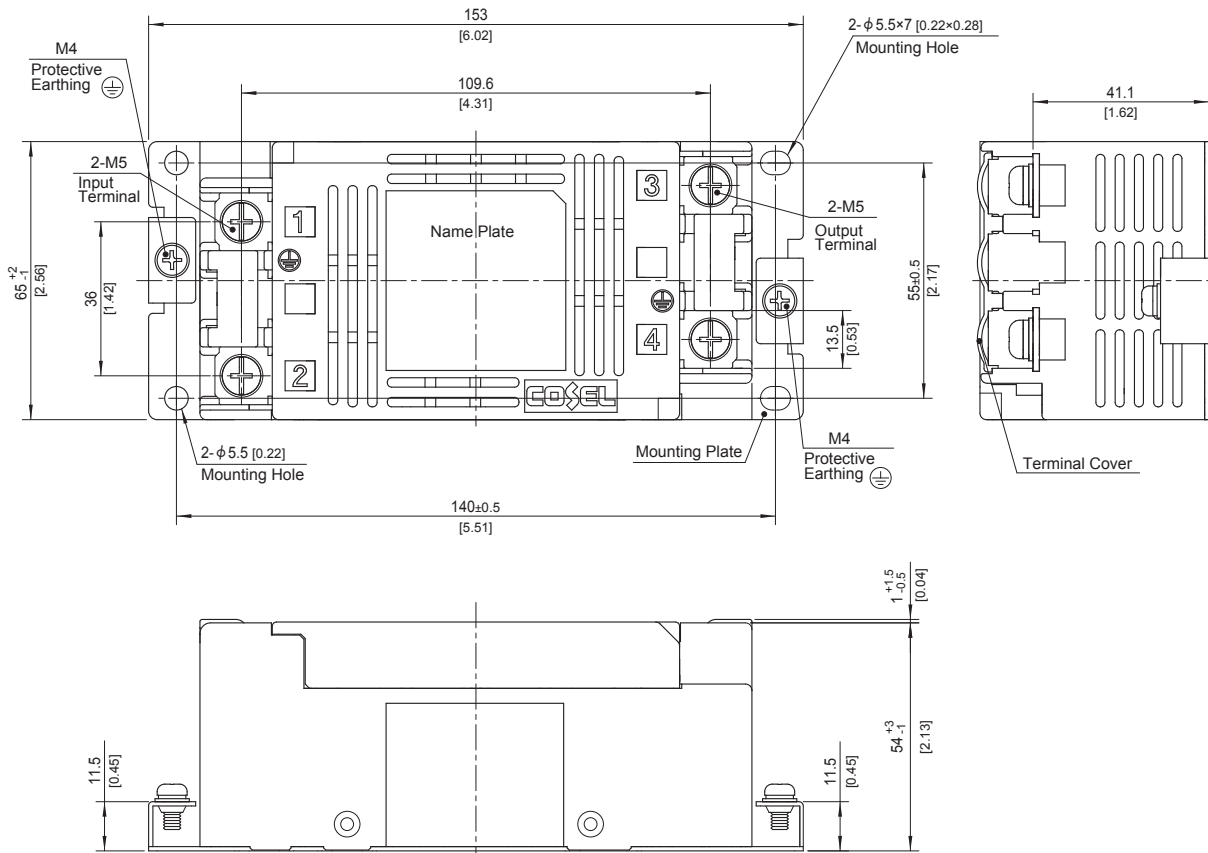
(4) Line to ground capacitor code :103,223,683  
Option : F



## Derating Curve



## External view



- ※ Dimensions in mm, [ ]=inches
- ※ Tolerance: ±1 [±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.