Single phase input type (1-Stage filter) COSEL

Ordering information

AP series

-10 NAC -472



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

Specifications

		NAC-04-472	NAC-06-472	NAC-10-472	NAC-16-472	NAC-20-472	NAC-30-472	
No.	Items	NAM-04-000	NAM-06-000	NAM-10-000	NAM-16-000	NAM-20-000	NAM-30-000	
	items	-	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), 1 minute at room temperature and humidity						
4	Isolation Resistance (Terminal-Mounting Plate)	500 VDC 100M Ω 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 ² (2G), 3min. Period, 1hour each X, Y and Z axis						
12	Impact	196.1m/s ² (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



COŞEL | NAC/NAM/NAH/NAP series(4-30A)

External view

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

①The terminal cover is retracted inside the unit.

(2) The screws for connecting the terminals are held in the up right position.



At least one PE connection is required.

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Single phase input type (1-stage filter)

Ordering information

/NAH/NAP series (40,50,60A)

CANUS D CONS ROHS	

-50 -472 NAC

①Series Name

2 Rated Current 3)Line to ground capacitor code:Refer to table 1.1 and table 1.2.

④Option

F:High input voltage (500VAC/600VDC)

table1.1 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	μA/	10 <i>µ</i> A ma	x Not Provided
471					50	μA/	100 µA ma	x 470pF
222					0.25	mA/	0.5 mA ma	x 2,200pF
472					0.5	mA/	1.0 mA ma	x 4,700pF
223					1.25	mA/	2.5 mA ma	x 0.022µF
683					1.75	mA/	3.5 mA ma	x 0.068µF
224					6.0	mA/	12.0 mA ma	x 0.22µF
155					27.5	mA/	55.0 mA ma	x 1.5μF

table1.2 Line to ground capacitor code (Option: F)

Code		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 <i>µ</i> F
223			1.0 mA/ 2.0 mA max	0.022µF
683			2.5 mA/ 5.0 mA max	0.068µF

* 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 ■ NAH : Ultra high-attenuation type from 9kHz to 1MHz ■ NAP : Outside impulse high-attenuation type

■ NAM : Low leakage current type

Specifications

COSEI

			NAC-40-472	NAC-50-472	NAC-60-472		
No.	Harris		NAM-40-000	NAM-50-000	NAM-60-000		
	Items		NAH-40-472	NAH-50-472	NAH-60-472		
			NAP-40-472	NAP-50-472	NAP-60-472		
4	Patad Valtaga	[VAC]	277 (voltage range : 305 max) 1 ¢ 50/60Hz [Option : F 500 (voltage range : 528 max) 1 ¢ 50/60Hz]				
1	Rated Voltage	[VDC]	300 (voltage range:400 max) [Option : F 600]				
2	Rated Current[A]		40	50	60		
3	Test Voltage (Terminal-Mountin	g Plate)	4,000 VAC (Cutoff Current = 25mA), 1minute at room temperature and humidity *1 *2				
4	Isolation Resistance (Terminal-	Mounting Plate)	500 VDC 100M Ω min at room temperature and humidity *3				
5	Leakage current		Refer to table 1.1 and table 1.2				
6	DC resistance		10mΩ max	6.0mΩ max	4.5mΩ max		
7	Safety agency approval temper	atures	-25 to +85°C (Refer to Derating	g Curve)			
8	Operating temperature		-40 to +85°C (Refer to Derating	g 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 ² (2G), 3min. Period, 1hour each X, Y and Z axis				
12	Impact		196.1m/s ² (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	65×54×153mm [2.56×2.13×6.02 inches] (W×H×D) / 750g max				

*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



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





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



Derating Curve



External view



- % 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