

# YAC series(25,36,64,80A)

YAC -25 -685



- ① Series 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 Y-Connection	Line to Ground Capacitor (Nominal Value)
685	10.7mA typ *1 55mA max *2	6.8μF

\*1 At normal operation (Input 500V 50Hz) with applying 10V in between N (N') and FG (According to IEC60939).

\*2 At the worst case under normal operation (Input 500V 60Hz).

## Features of YAC series

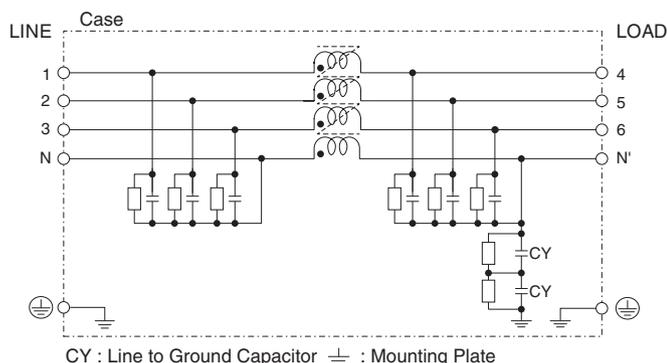
- Three-Phase Four-Wire System EMI/EMC Filter ideal for High-power office equipment and Energy storage systems
- Suitable for 150kHz to 1MHz conduction noise reduction
- Product lineup that can flexibly respond to system and capacity changes in a compact/same body size

## Specifications

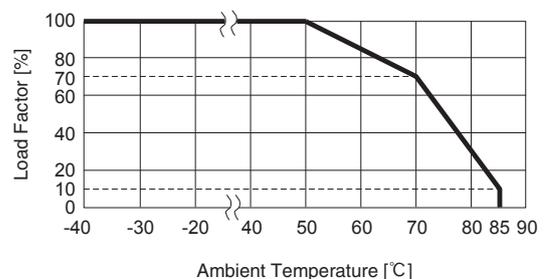
No.	Items	YAC-25-685	YAC-36-685	YAC-64-685	YAC-80-685
1	Rated Voltage[VAC]	Three-Phase Four-Wire System Y-Connection 500/289 (Voltage Range:528/305 max) 50/60Hz *3			
2	Rated Current[A]	25	36	64	80
3	Test Voltage (Terminal-Mounting Plate)	2,800 VDC (Cutoff Current = 10mA), 1minute at room temperature and humidity			
4	Isolation Resistance (Terminal-Mounting Plate)	500 VDC 5MΩ min. at room temperature and humidity			
5	Leakage Current	Refer to table 1.1			
6	DC Resistance	15mΩ max	10mΩ max	3.5mΩ max	2.5mΩ max
7	Operating Temperature/Humidity	-40 to +85°C (Refer to Derating Curve)/20 to 95%RH (Non condensing)			
8	Storage Temperature/Humidity	-40 to +85°C/20 to 95%RH (Non condensing)			
9	Vibration	10 to 55Hz, 19.6m/s <sup>2</sup> (2G), 3min. Period, 1hour each X, Y and Z axis			
10	Impact	196.1m/s <sup>2</sup> (20G), 11ms Once each X, Y and Z axis			
11	Safety Agency Approvals	UL60939 [Overvoltage Category : III Altitude : 3000m] , CSA C22. 2 No. 8 (C-UL) EN60939 (DEMKO) [Overvoltage Category : III Altitude : 3000m] , ENEC			
12	Case Size (Without Projection)	100×88×179mm (W×H×D) [3.94×3.46×7.05 inches] (W×H×D)			
13	Weight	1.7kg max			

\*3 Voltage indicates "Line Voltage/Phase Voltage".

## Circuit Diagram



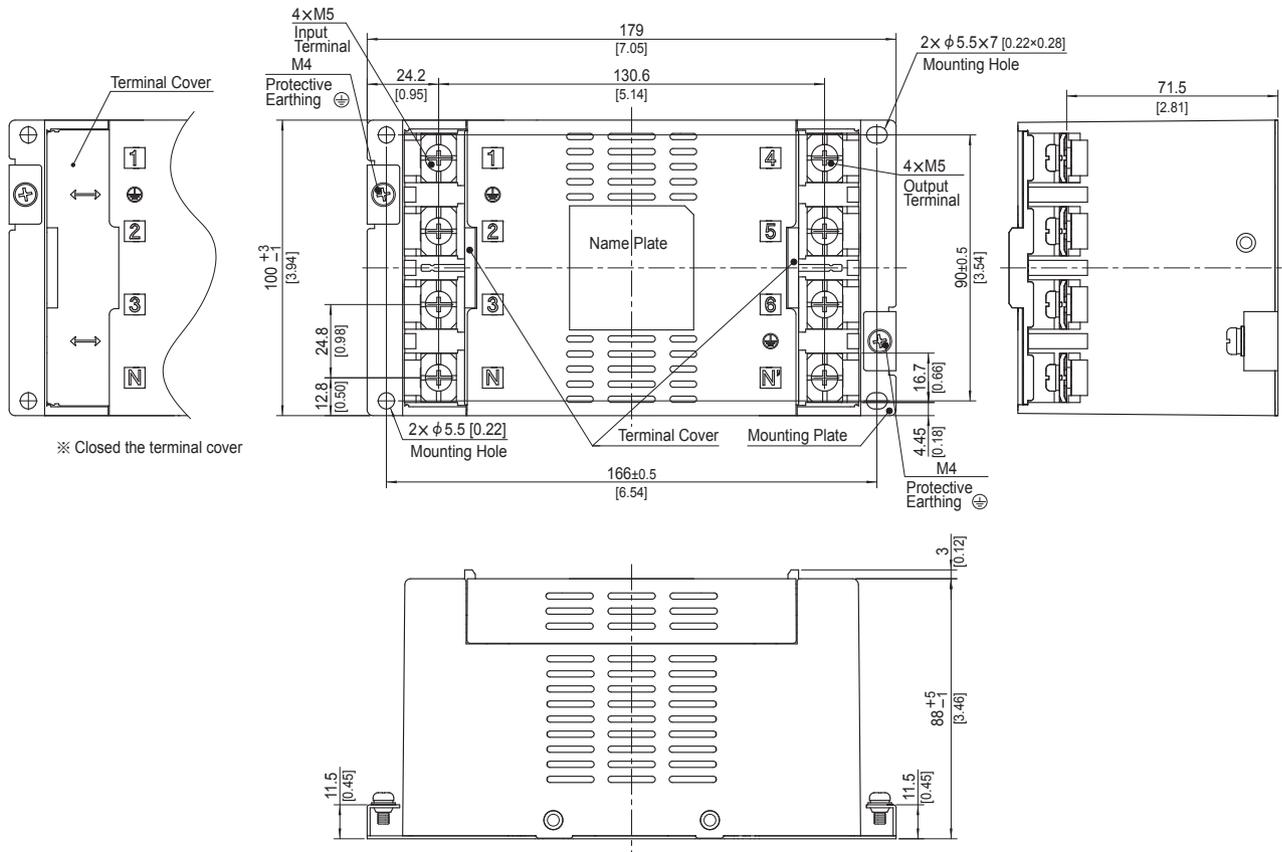
## Derating Curve



\*Keep free ventilation holes for cooling.

## External view

This product is shipped with the terminal cover retracted inside the unit.



※ Closed the terminal cover

- ※ Dimensions in mm, [ ] = inches
- ※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]
- ※ Weight : 1.7kg max
- ※ Mounting Plate : 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.