

JAC series(40,50,60A)

JAC -50 -683 -□

① ② ③ ④

- 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 *1	Line to ground capacitor (nominal value)
	Upper row : Δ-connection Lower row : Y-connection	
103	0.5mA / 1.0mA max 0.05mA / 0.1mA max	0.01μF
223	1.0mA / 2.0mA max 0.1mA / 0.2mA max	0.022μF
683	2.5mA / 5.0mA max 0.35mA / 0.7mA max	0.068μF
224	15mA / 24mA max 2.0mA / 4.0mA max	0.22μF
155	80mA / 125mA max 9.0mA / 18mA max	1.5μF

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

*1 Input 250/500V 60Hz
(Δ-connection of "224", "155" is 250/400V 60Hz)

- ④ Option
- H: Ultra high-attenuation type
"103", "223", "683" is applied.
- U: Improve differential mode attenuation
(Rated voltage 250V)



Features of JAC series

Compact and low profile, common mode EMI/EMC filters in 150kHz to 1MHz (1-stage filter)

- Three phase rated voltage 500 VAC (voltage range : 528V max)
- Selectable leakage current value, Ultra high-attenuation type "224", "155" for EU (Y type with neutral earth system)

Specifications

No.	Items	JAC-40-683	JAC-50-683	JAC-60-683
1	Rated Voltage[V]	AC Three Phase 500 (voltage range: 528 max) 50/60Hz *2 *3		
2	Rated Current[A]	40	50	60
3	Test Voltage (Terminal-Mounting Plate)	2,500 VAC (Cutoff Current = 100mA), 1minute at room temperature and humidity *4		
4	Isolation Resistance (Terminal-Mounting Plate)	500 VDC 100MΩ min at room temperature and humidity *5		
5	Leakage current 250/500V 60Hz	2.5mA/5.0mA max		
6	DC resistance	7.0mΩ max	5.0mΩ max	3.5mΩ max
7	Safety agency approval temperatures	-40 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	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)	65 X 54 X 153 mm (W X H X D) [2.56 X 2.13 X 6.02 inches] (W X H X D)		
15	Weight	800g max		

*2 Capacitor code "224" and "155" : Three Phase Δ-connection 400 (440 max), Y-connection 500 (528 max).

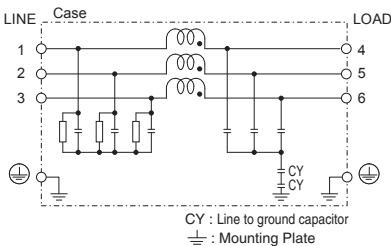
*3 "JAC-□□□□□□□□-U" : Three Phase 250 (275 max).

*4 Capacitor code "224" and "155" : 2,800VDC (Cutoff Current = 10mA), 1 minute at room temperature and humidity.

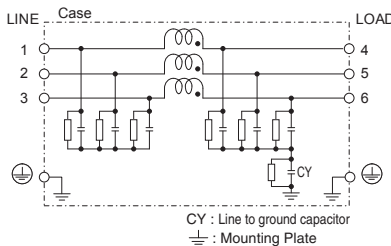
*5 Capacitor code "224" and "155" : Isolation resistance specification is deleted.

Circuit Diagram

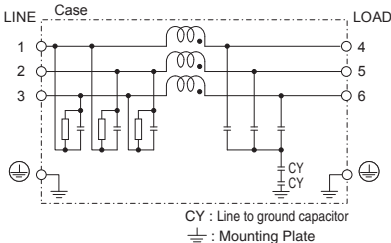
(1) Line to ground capacitor code : 103, 223, 683



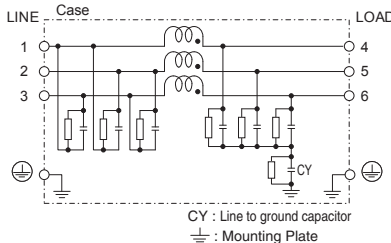
(2) Line to ground capacitor code : 224, 155



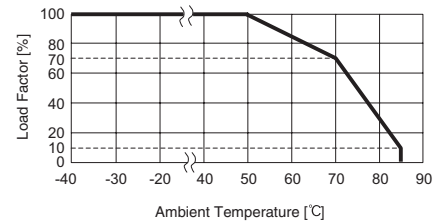
(3) Line to ground capacitor code : 103, 223, 683
Option : U



(4) Line to ground capacitor code : 224, 155
Option : U

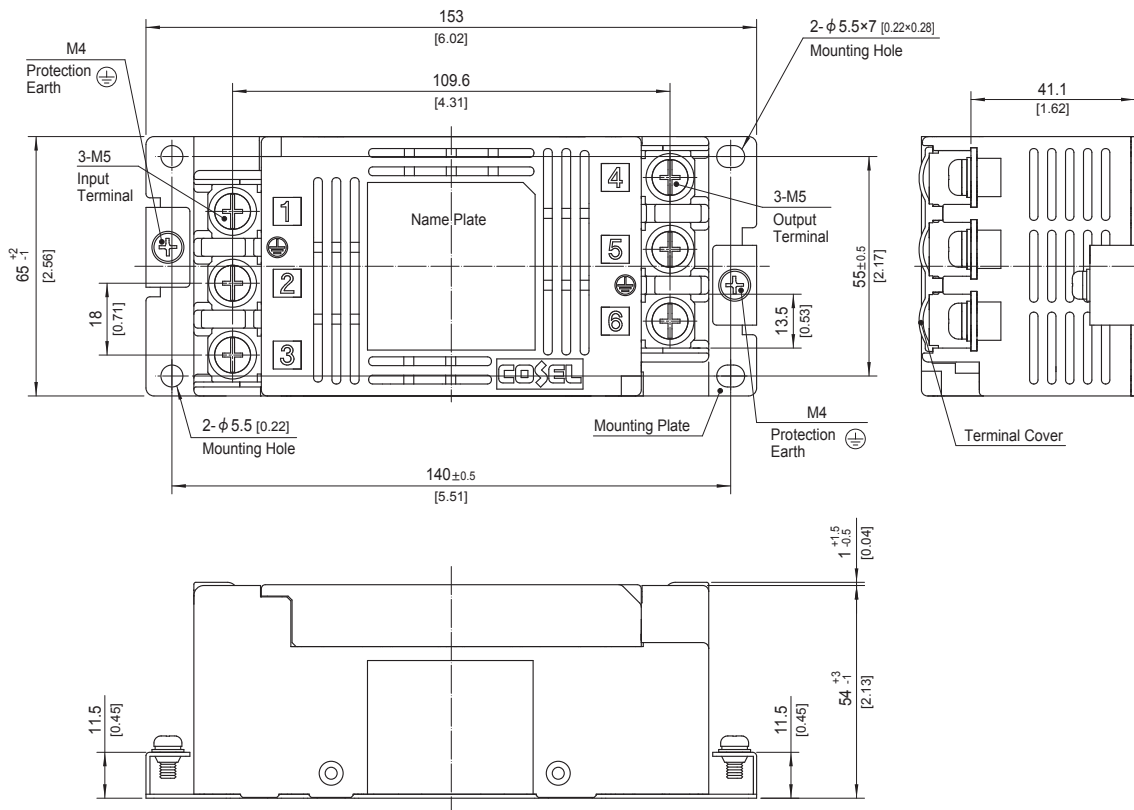


Derating Curve



* Keep free ventilation holes for cooling.

External view



- ※ Tolerance : ± 1 [± 0.04]
- ※ Weight : 800g max
- ※ Mounting Plate : Hot-dip Galvanized Steel board $t=1.0$ [0.04]
- ※ Case Material : PBT
- ※ Dimensions in mm, []=inches
- ※ Terminal block screw tightening torque M5 : $3.0\text{N} \cdot \text{m}$ (30.7kgf · cm) max
- ※ Protection Earth (PE) screw tightening torque M4 : $1.6\text{N} \cdot \text{m}$ (16.9kgf · cm) 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.