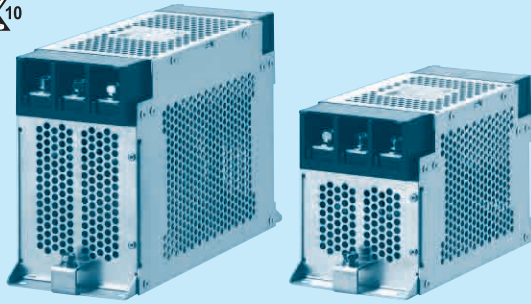
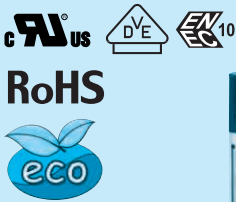


## FTA series(80,100,125,150A)

FTA -80 -683 -□

① ② ③ ④



① Model 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<br>(Input 250/500V 60Hz)<br>(155,335 only 250/400V 60Hz) | Line to ground<br>capacitor<br>(nominal value) |
|------|--------------------------------------------------------------------------|------------------------------------------------|
| 223  | 1.0mA/2.0mA max                                                          | 22,000pF                                       |
| 683  | 2.5mA/5.0mA max                                                          | 68,000pF                                       |
| 104  | 3.5mA/7.0mA max                                                          | 100,000pF                                      |
| 155  | 160mA/250mA max                                                          | 1.5μF                                          |
| 335  | 320mA/500mA max                                                          | 3.3μF                                          |

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

④ Option

H: Ultra high attenuation type

"155", "335" is not applied.

S: Hexagon socket head cap screw

(Standard type is Hexagon head screw)

U: Improve differential mode attenuation

(Rated voltage 250V)

G: With switch of line to ground capacitor

Only "155", "335" is applied.

\* "155" is Leakage current 160mA/250mA max when the switch state is ON (switched to "I").  
50μA/80μA max when the switch state is OFF (switched to "O").\* "335" is Leakage current 320mA/500mA max when the switch state is ON (switched to "I").  
50μA/80μA max when the switch state is OFF (switched to "O").

## Features of FTA series

## Book type (Space-saving type)

- 1-stage filter General-purpose High-attenuation (150kHz - 1MHz)
- Selectable leakage current value, Ultra high attenuation type  
"155", "335" for EU  
(Wye type with neutral earth system), With switch of line to ground capacitor "-G"

## Specifications

| No. | Items                                          | FTA-80-683                                                                                           | FTA-100-683 | FTA-125-683 | FTA-150-683                                                                                           |
|-----|------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------|-------------|-------------------------------------------------------------------------------------------------------|
| 1   | Rated Voltage[V]                               | AC Three Phase 500 (voltage range: 528 max) *1 *2                                                    |             |             |                                                                                                       |
| 2   | Rated Current[A]                               | 80                                                                                                   | 100         | 125         | 150                                                                                                   |
| 3   | Test Voltage (Terminal-Mounting Plate)         | 2,500 VAC (Cutoff Current = 100mA), 1minute at room temperature and humidity *3                      |             |             |                                                                                                       |
| 4   | Isolation Resistance (Terminal-Mounting Plate) | 500 VDC 100MΩ min at room temperature and humidity *4                                                |             |             |                                                                                                       |
| 5   | Leakage current 250/500V 60Hz                  | 2.5mA/5.0mA max                                                                                      |             |             |                                                                                                       |
| 6   | DC resistance                                  | 5mΩ max                                                                                              | 4mΩ max     | 3mΩ max     | 3mΩ 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                        | UL1283, CSA C22.2 No.8 (C-UL), DIN EN60939 VDE0565 Teil3-1, ENEC                                     |             |             |                                                                                                       |
| 14  | Case size (without projection)                 | 100 X 130 X 210 mm (W X H X D)<br>(Option: -G refer to external view)<br>[3.94 X 5.12 X 8.27 inches] |             |             | 100 X 170 X 260 mm (W X H X D)<br>(Option: -G refer to external view)<br>[3.94 X 6.69 X 10.24 inches] |
| 15  | Weight                                         | 3.1kg max                                                                                            |             |             | 4.2kg max                                                                                             |

\*1 Only capacitor code and option "155", "335", Three Phase Δ-connection: 400 (440 max), Wye-connection: 500 (528 max)

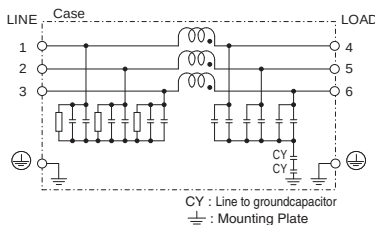
\*2 Only option "U", Three Phase 250 (275 max)

\*3 Only capacitor code and option "155", "335", 2,800VDC (Cutoff Current = 10mA), 1minute at room temperature and humidity.

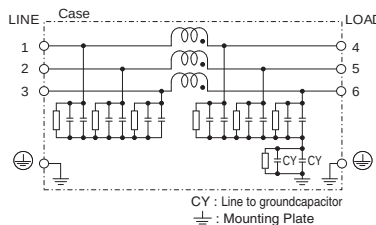
\*4 Only capacitor code and option "155", "335", insulation resistance specification is deleted.

## Circuit Diagram

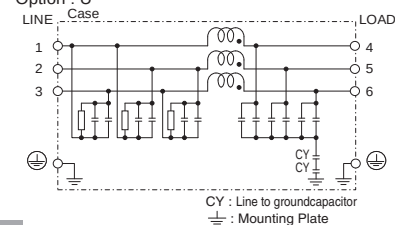
(1) Line to ground capacitor code : 223, 683, 104



(2) Line to ground capacitor code : 155, 335

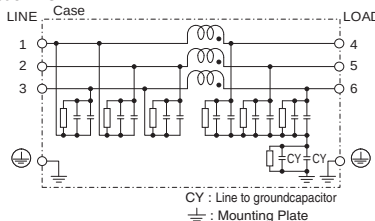


(3) Line to ground capacitor code : 223, 683, 104



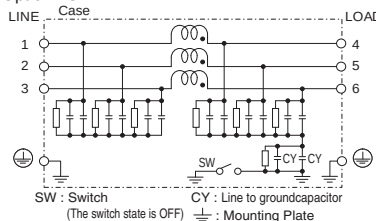
(4) Line to ground capacitor code : 155, 335

Option : U

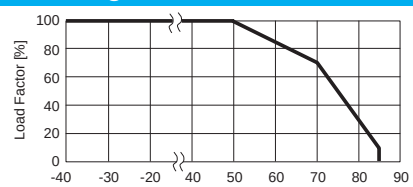


(5) Line to ground capacitor code : 155, 335

Option : G



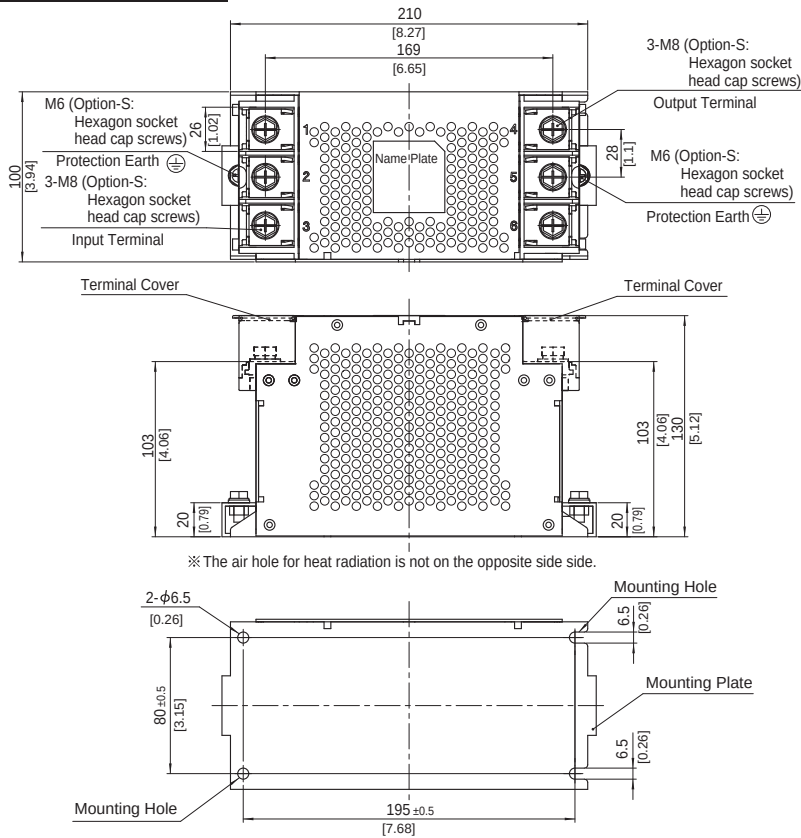
## Derating Curve



\* Keep free ventilation holes for cooling.

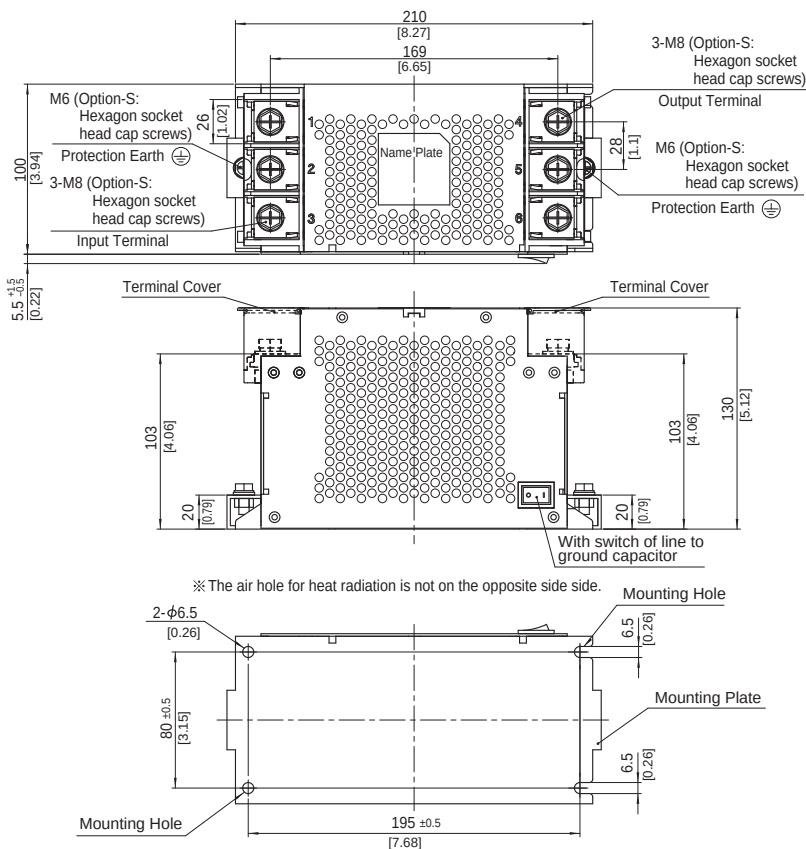
## External view

### FTA-80 / FTA-100 / FTA-125



- ※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]
- ※ Weight : 3.1kg max
- ※ Mounting Plate : Aluminum  $t=2.0$  [0.08]
- ※ Dimensions in mm, [ ]=inches
- ※ Terminal block screw tightening torque  
M8 :  $9.2\text{N} \cdot \text{m}$  (93.9kgf  $\cdot$  cm)max
- ※ Protection Earth (PE) screw tightening torque  
M6 :  $5.8\text{N} \cdot \text{m}$  (59.2kgf  $\cdot$  cm)max
- ※ Can not be mounted upside-down (mounted the top surface)
- ※ Keep free ventilation holes for cooling

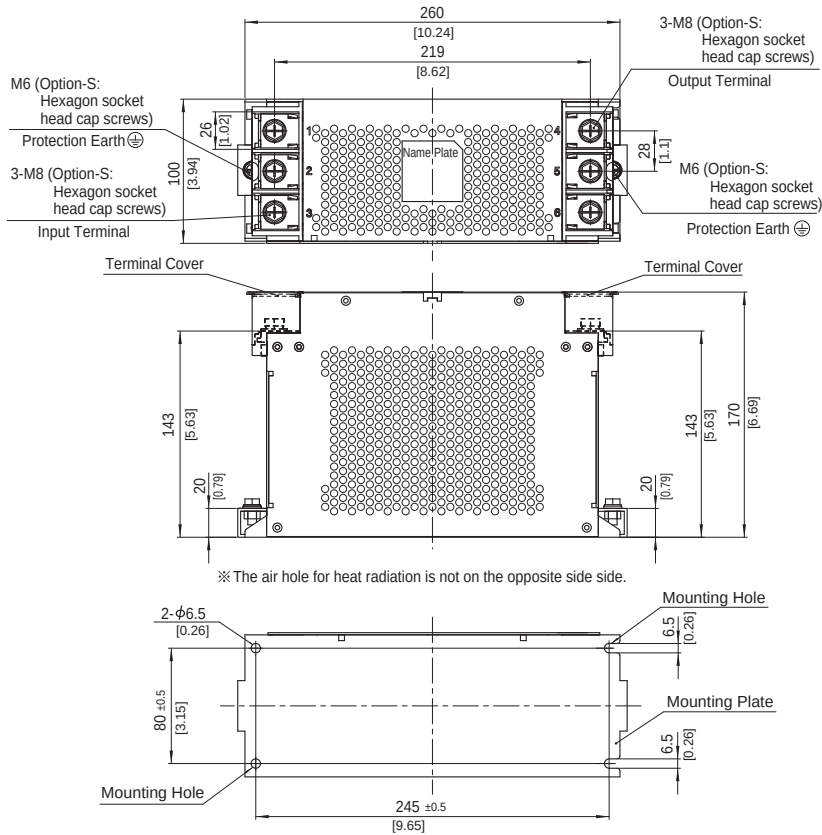
### FTA-80 / FTA-100 / FTA-125 with switch of line to ground capacitor ON/OFF



- ※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]
- ※ Weight : 3.1kg max
- ※ Mounting Plate : Aluminum  $t=2.0$  [0.08]
- ※ Dimensions in mm, [ ]=inches
- ※ Terminal block screw tightening torque  
M8 :  $9.2\text{N} \cdot \text{m}$  (93.9kgf  $\cdot$  cm)max
- ※ Protection Earth (PE) screw tightening torque  
M6 :  $5.8\text{N} \cdot \text{m}$  (59.2kgf  $\cdot$  cm)max
- ※ Can not be mounted upside-down (mounted the top surface)
- ※ Keep free ventilation holes for cooling
- ※ The switch state is OFF at shipping
- ※ Switch status ON : "I", OFF : "O"
- ※ HIGH LEAKAGE CURRENT first connect to earth

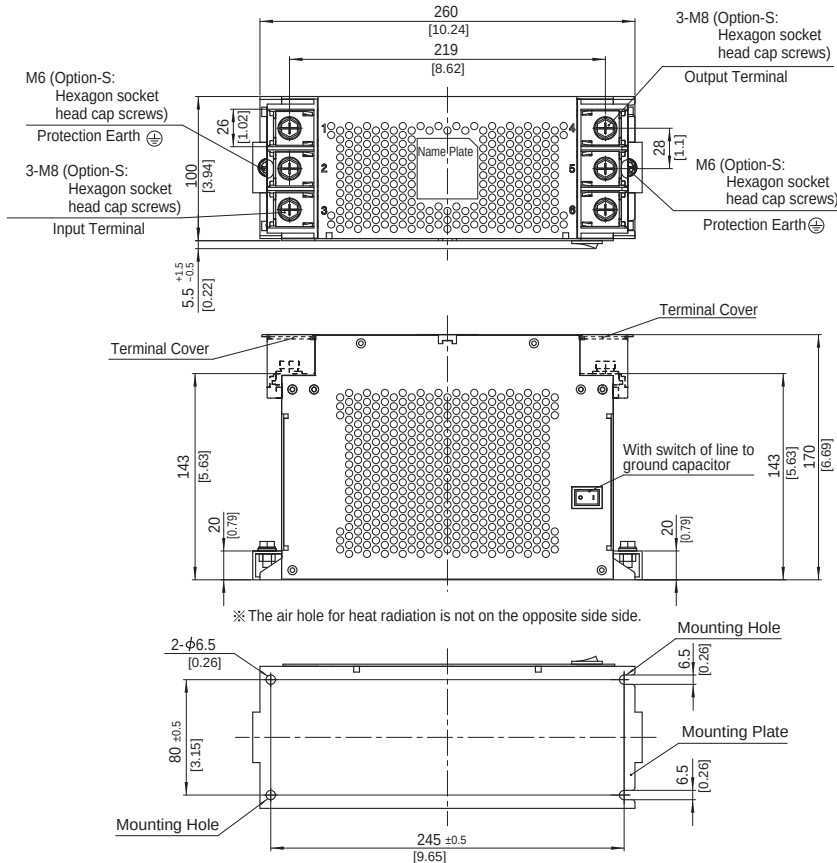
## External view

### FTA-150



- ※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]
- ※ Weight : 4.2kg max
- ※ Mounting Plate : Aluminum  $t=2.0$  [0.08]
- ※ Dimensions in mm, [ ]=inches
- ※ Terminal block screw tightening torque  
M8 :  $9.2\text{N} \cdot \text{m}$  (93.9kgf  $\cdot$  cm)max
- ※ Protection Earth (PE) screw tightening torque  
M6 :  $5.8\text{N} \cdot \text{m}$  (59.2kgf  $\cdot$  cm)max
- ※ Can not be mounted upside-down  
(mounted the top surface)
- ※ Keep free ventilation holes for cooling

### FTA-150 with switch of line to ground capacitor ON/OFF



- ※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]
- ※ Weight : 4.2kg max
- ※ Mounting Plate : Aluminum  $t=2.0$  [0.08]
- ※ Dimensions in mm, [ ]=inches
- ※ Terminal block screw tightening torque  
M8 :  $9.2\text{N} \cdot \text{m}$  (93.9kgf  $\cdot$  cm)max
- ※ Protection Earth (PE) screw tightening torque  
M6 :  $5.8\text{N} \cdot \text{m}$  (59.2kgf  $\cdot$  cm)max
- ※ Can not be mounted upside-down  
(mounted the top surface)
- ※ Keep free ventilation holes for cooling
- ※ The switch state is OFF at shipping
- ※ Switch status ON : "I", OFF : "O"
- ※ HIGH LEAKAGE CURRENT  
first connect to earth

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