

# FTA series(40,50,60A)



RoHS



## 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 "335" for EU(Wye type with neutral earth system), With switch of line to ground capacitor "-G"

## Specifications

No.	Items	FTA-40-683	FTA-50-683	FTA-60-683
1	Rated Voltage[V]	AC Three Phase 500 (voltage range:528 max)	50/60Hz *1 *2	
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	*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	8.5mΩ max	6mΩ max	4.5mΩ 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)	65×84×153 mm (W×H×D) (Option: -G refer to external view) [2.56×3.31×6.02 inches] (W×H×D)		
15	Weight	1.2kg max		

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

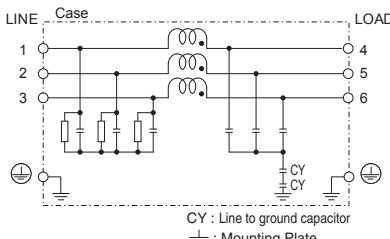
\*2 Only "FTA-□□□□□□U", Three Phase 250 (275 max)

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

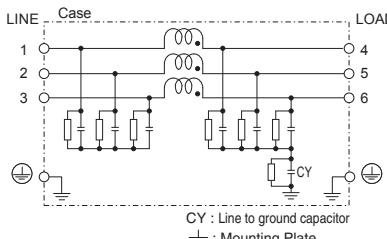
\*4 Only capacitor code "335", Isolation resistance specification is deleted.

## Circuit Diagram

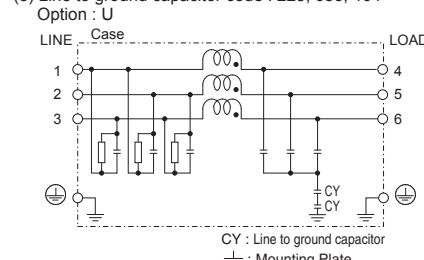
(1) Line to ground capacitor code : 223, 683, 104



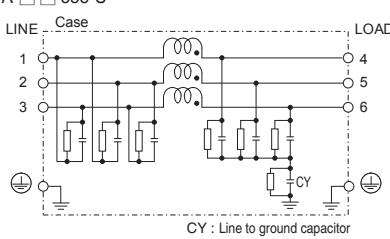
(2) Line to ground capacitor code : 335



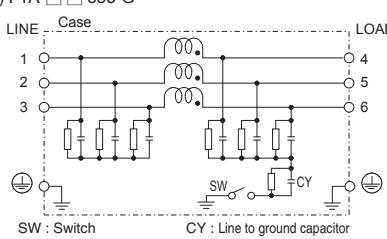
(3) Line to ground capacitor code : 223, 683, 104



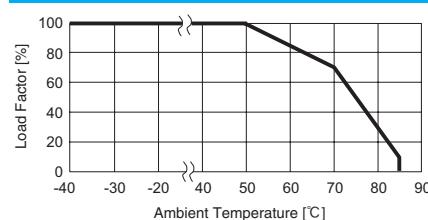
(4) FTA-□□□-335-U



(5) FTA-□□□-335-G

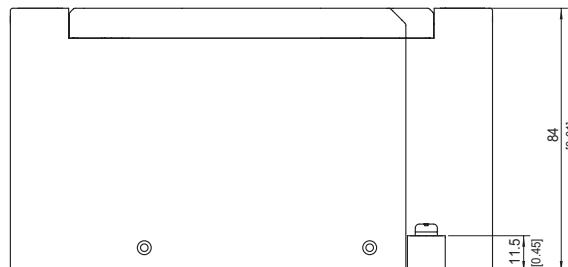
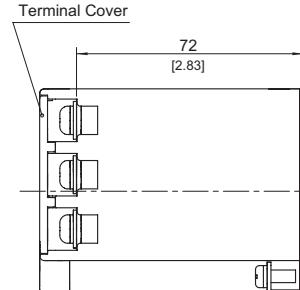
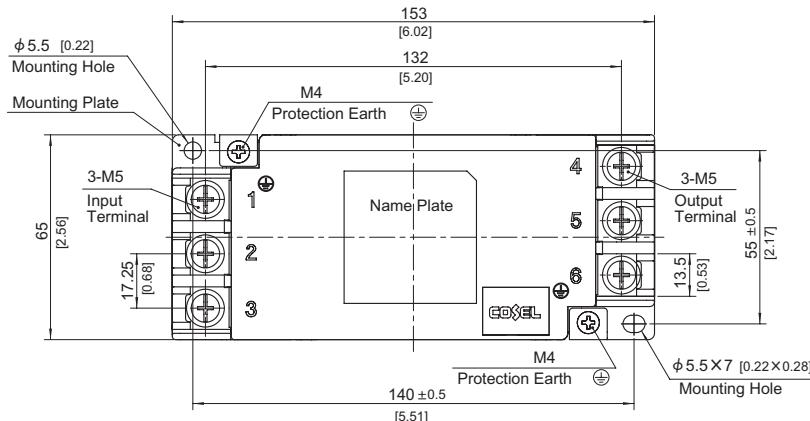


## Derating Curve



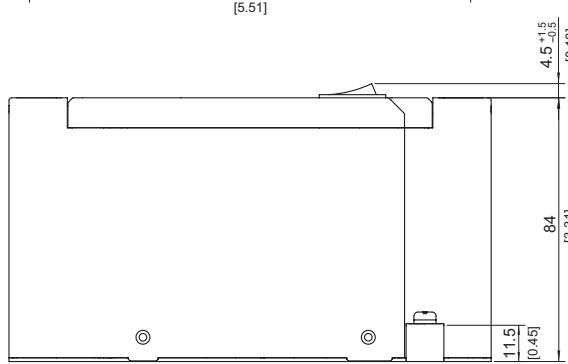
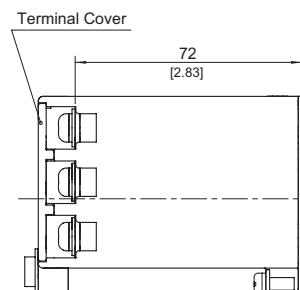
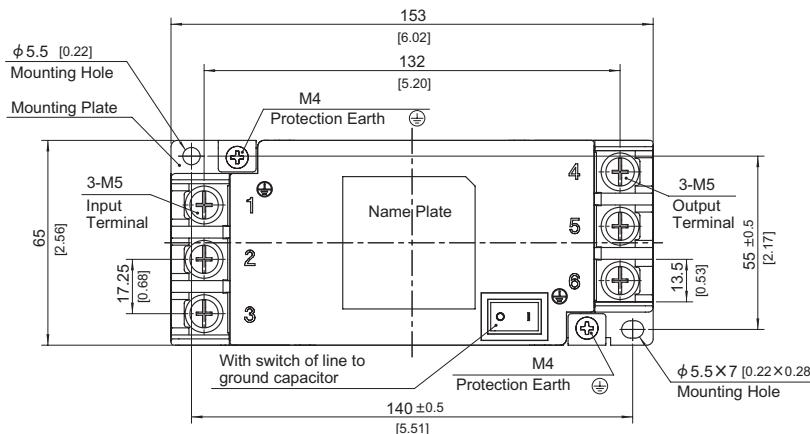
## External view

## Standard Type



※ Tolerance : ±1 [ $\pm 0.04$ ]  
 ※ Weight : 1.2kg max  
 ※ Mounting Plate : Iron (surface finishing : nickel plating) t=1.2 [0.05]  
 ※ Case : PBT  
 ※ Dimensions in mm, [ ]=inches  
 ※ Terminal block screw tightening torque M5 : 3.0N · m (30.7kgf · cm)max  
 ※ Protection Earth (PE) screw tightening torque M4 : 1.6N · m (16.9kgf · cm)max  
 ※ Can not be mounted upside-down (mounted the top surface)

## With switch of line to ground capacitor ON/OFF



※ Tolerance : ±1 [ $\pm 0.04$ ]  
 ※ Weight : 1.2kg max  
 ※ Mounting Plate : Iron (surface finishing : nickel plating) t=1.2 [0.05]  
 ※ Case : PBT  
 ※ Dimensions in mm, [ ]=inches  
 ※ Terminal block screw tightening torque M5 : 3.0N · m (30.7kgf · cm)max  
 ※ Protection Earth (PE) screw tightening torque M4 : 1.6N · m (16.9kgf · cm)max  
 ※ Can not be mounted upside-down (mounted the top surface)  
 ※ The switch state is OFF at shipping  
 ※ Switch status ON : "I", OFF : "O"  
 ※ **HIGH LEAKAGE CURRENT**  
 first connect to earth

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

## Ordering information

FTA -80 -683 -□

① ② ③ ④



RoHS



## 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)	50/60Hz	*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)	100×130×210 mm (W×H×D) (Option: -G refer to external view)		100×170×260 mm (W×H×D) (Option: -G refer to external view)	
15	Weight	[3.94×5.12×8.27 inches]		[3.94×6.69×10.24 inches]	
		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)

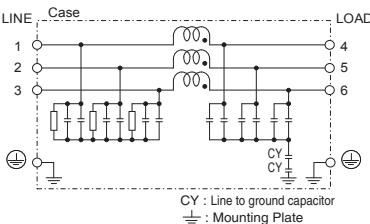
\*2 Only option "U", Three Phase 250(275 max)

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

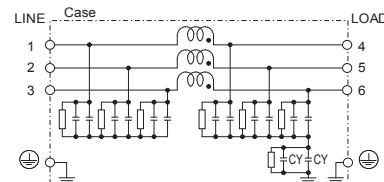
\*4 Only capacitor code and option "155", "335", Isolation resistance specification is deleted.

## Circuit Diagram

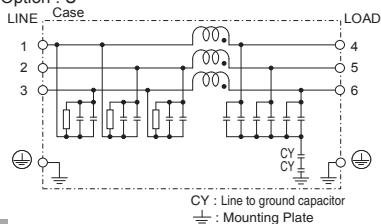
(1) Line to ground capacitor code : 223, 683, 104



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

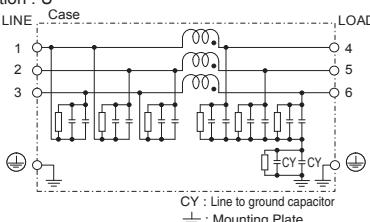


(3) Line to ground capacitor code : 223, 683, 104



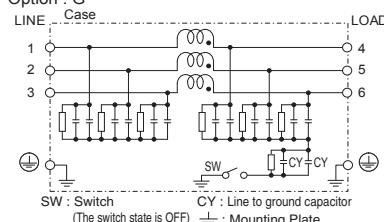
(4) Line to ground capacitor code : 155, 335

Option : U

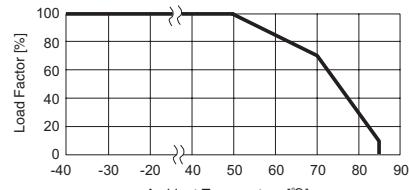


(5) Line to ground capacitor code : 155, 335

Option : G



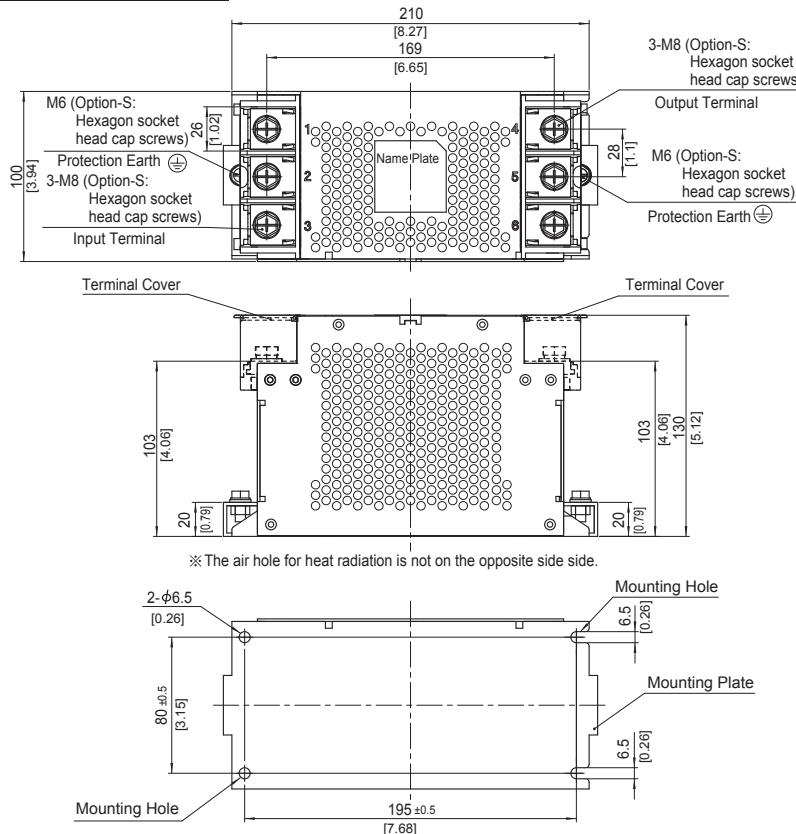
## Derating Curve



\* Keep free ventilation holes for cooling.

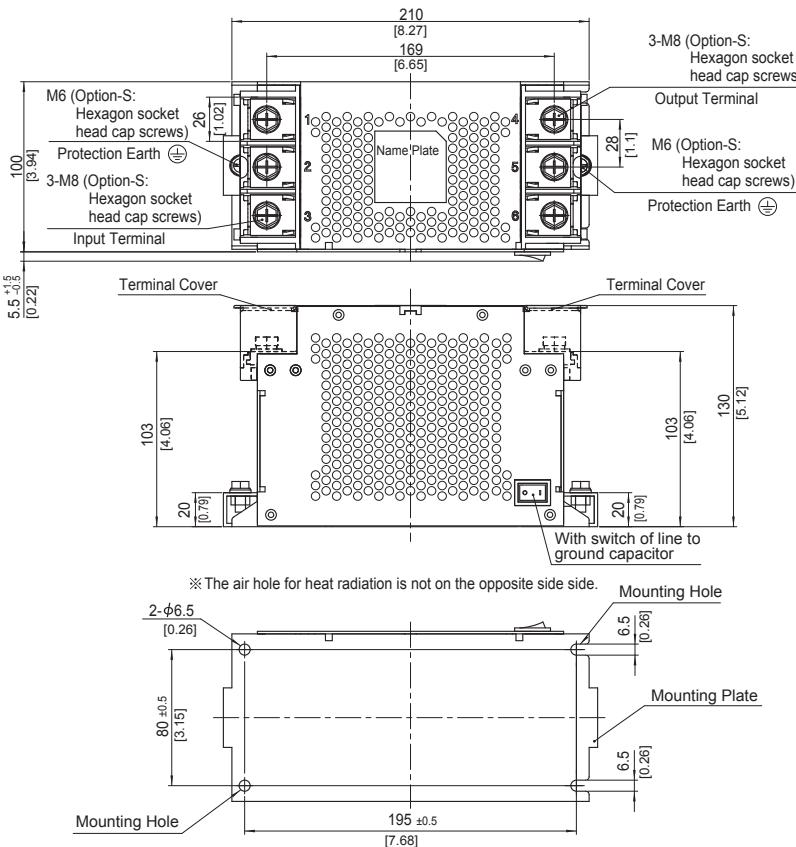
## External view

### 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 : 9.2N • m(93.9kgf • cm)max
- ※ Protection Earth (PE) screw tightening torque  
M6 : 5.8N • m(59.2kgf • cm)max
- ※ Can not be mounted upside-down  
(mounted the top surface)
- ※ Keep free ventilation holes for cooling

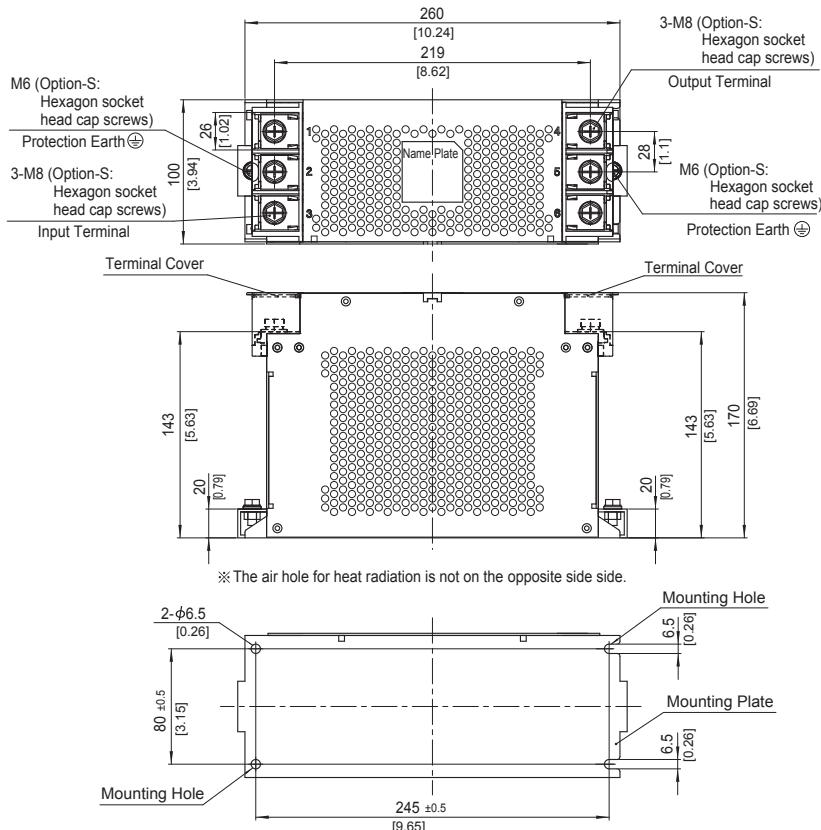
### FTA-80 / FTA-100 / FTA-125 with switch of line to ground capacitor ON/OFF



- ※ 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 : 9.2N • m(93.9kgf • cm)max
- ※ Protection Earth (PE) screw tightening torque  
M6 : 5.8N • m(59.2kgf • 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 : " | ", OFF : "O"
- ※ HIGH LEAKAGE CURRENT  
first connect to earth

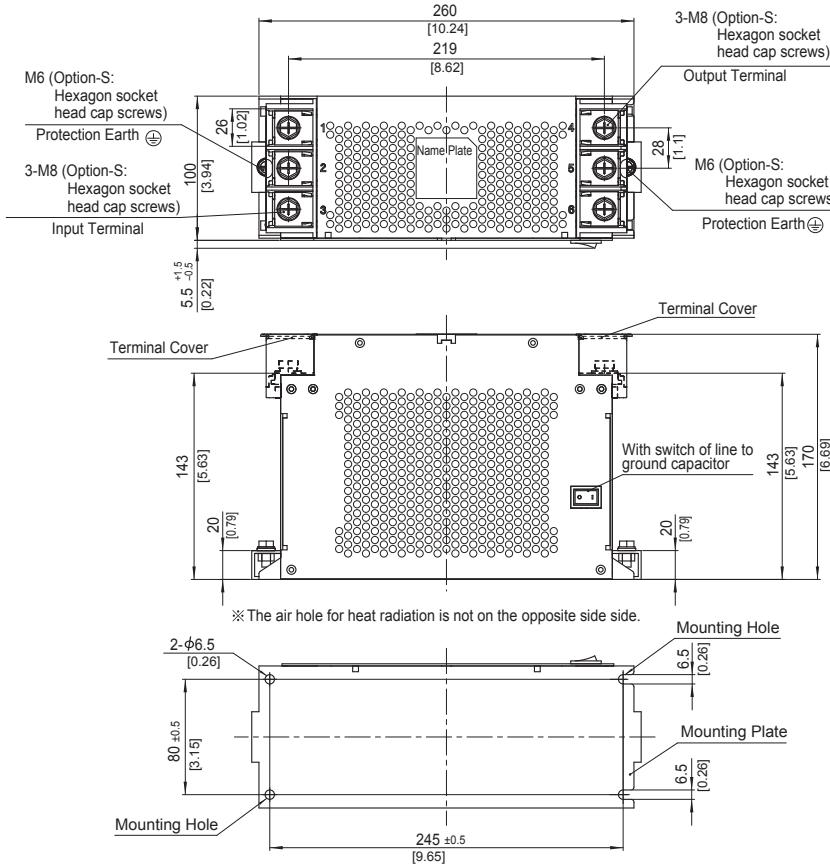
## External view

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 : 9.2N • m(93.9kgf • cm)max
- ※ Protection Earth (PE) screw tightening torque  
M6 : 5.8N • m(59.2kgf • 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 :  $\pm 1$  [±0.04]
- ※ Weight : 4.2kg max
- ※ Mounting Plate : Aluminum t=2.0 [0.08]
- ※ Dimensions in mm, [ ]=inches
- ※ Terminal block screw tightening torque  
 $M8 : 9.2N \cdot m (93.9kgf \cdot cm) max$
- ※ Protection Earth (PE) screw tightening torque  
 $M6 : 5.8N \cdot m (59.2kgf \cdot cm) max$
- ※ 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 : "1", OFF : "0"
- ※  HIGH LEAKAGE CURRENT  
 first connect to earth