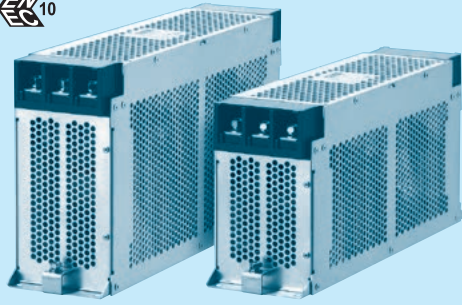
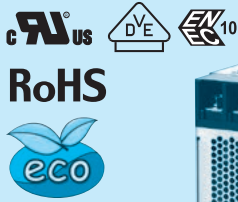


# FTB series(80,100,150A)

FTB -80 -663 -□

① ② ③ ④



- ① Model Name
- ② Rated Current
- ③ Line to ground capacitor code: See table 1.1.

table1.1 Line to ground capacitor code

| Code   | Leakage Current (Input 250/500V 60Hz)<br>(355 only 250/400V 60Hz) | Line to ground capacitor CY1 (nominal value) | Line to ground capacitor CY2 (nominal value) |
|--------|---|--|--|
| 203    | 1.0mA/2.0mA max   | 10,000pF                                     | 10,000pF                                     |
| 663    | 2.5mA/5.0mA max   | 33,000pF                                     | 33,000pF                                     |
| 324    | 12mA/24mA max   | 220,000pF                                    | 100,000pF                                    |
| 355 *1 | 330mA/515mA max   | 220,000pF                                    | 3,300,000pF                                  |

- \* When the line to ground capacitor code is different, the attenuation characteristic is different.
- \* 1 "355" is applied only to "L" type.

- ④ Option
- H: Ultra high attenuation type  
"355" is not applied
- S: Hexagon socket head cap screw  
(Standard type is Hexagon head screw)
- L: Ultra high attenuation type for EU

## Features of FTB series

### Book type (Space-saving type)

- 2-stage filter High-attenuation (150kHz - 1MHz)
- Selectable leakage current value, Ultra high attenuation type "-355-L" for EU (Wye type with neutral earth system)

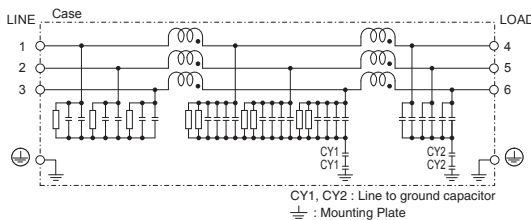
## Specifications

| No. | Items  | FTB-80-663  | FTB-100-663  | FTB-150-663 |
|-----|--|---|--|-------------|
| 1   | Rated Voltage[V]                               | AC Three Phase 500 (voltage range: 528 max) 50/60Hz *2                          |  |             |
| 2   | Rated Current[A]                               | 80  | 100  | 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                                  | 10mΩ max  | 8mΩ max  | 6mΩ 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 170 X 350 mm (W X H X D)<br>[3.94 X 6.69 X 13.78 inches]                  | 100 X 210 X 400 mm (W X H X D)<br>[3.94 X 8.27 X 15.75 inches] |             |
| 15  | Weight   | 5.3kg max   | 7.8kg max  |             |

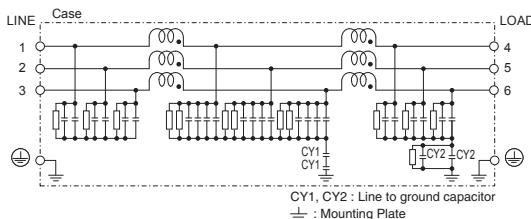
- \*2 Only capacitor code "355", Three Phase Δ-connection : 400 (440 max), Wye-connection : 500 (528 max)
- \*3 Only capacitor code "324","355" 2,800 DC (Cutoff Current = 10mA), 1minute at room temperature and humidity.
- \*4 Only capacitor code "355", Isolation resistance specification is deleted.

## Circuit Diagram

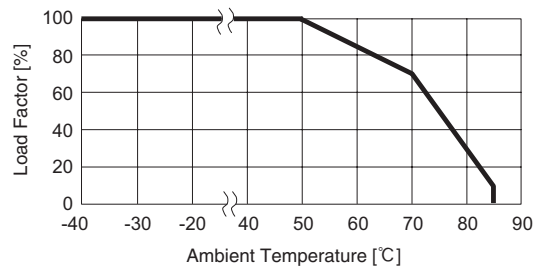
(1) Line to ground capacitor code : 203, 663, 324



(2) FTB □ □ -355-L



## Derating Curve



\* Keep free ventilation holes for cooling.

## External view

### FTB-80-□□□ / FTB-100-□□□

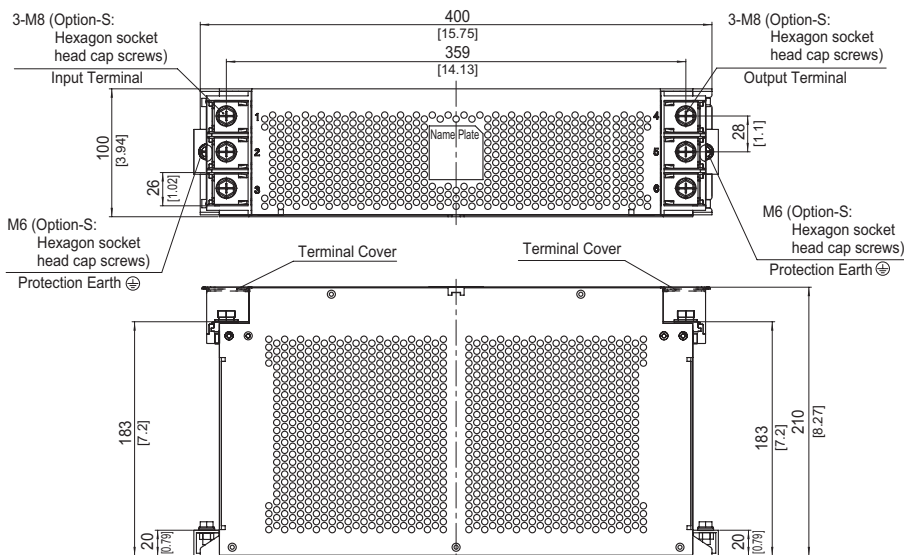


※ The air hole for heat radiation is not on the opposite side side.



- ※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]
- ※ Weight : 5.3kg 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

### FTB-150-□□□



※ The air hole for heat radiation is not on the opposite side side.



- ※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]
- ※ Weight : 7.8kg 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