

# 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.

table 1.1 Line to ground capacitor code

| Code   | Leakage Current<br>(Input 250/500V 60Hz)<br>(355 only 250/400V 60Hz) | Line to ground<br>capacitor CY1<br>(nominal value) | Line to ground<br>capacitor CY2<br>(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 Only "L" type is applied.

- 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/s² (2G), 3min. Period, 1hour each X, Y and Z axis             |             |                                                                |
| 12  | Impact                                         | 196.1m/s² (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                                                      |

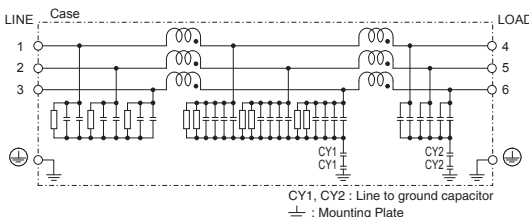
\*2 Only capacitor code "355", Three Phase Δ-connection : 400 (440 max), Wye-connection : 500 (528 max)

\*3 Only capacitor code "324", "355" 2,800 VDC (Cutoff Current = 10mA), 1minute at room temperature and humidity.

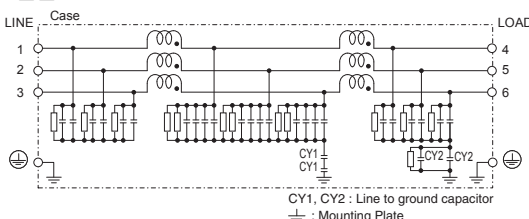
\*4 Only capacitor code "355", insulation resistance specification is deleted.

## Circuit Diagram

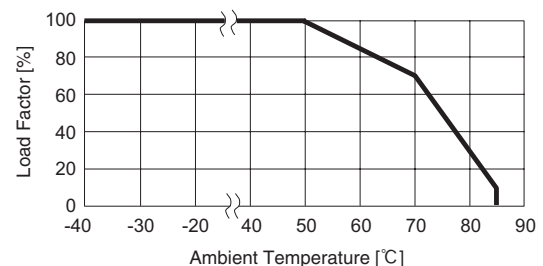
(1) Line to ground capacitor code : 203, 663, 324



(2) FTB □ □ -355-L



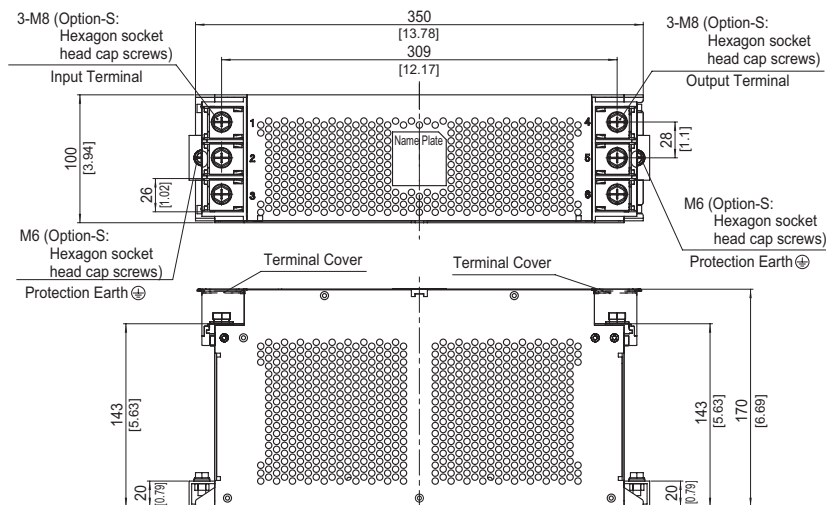
## Derating Curve



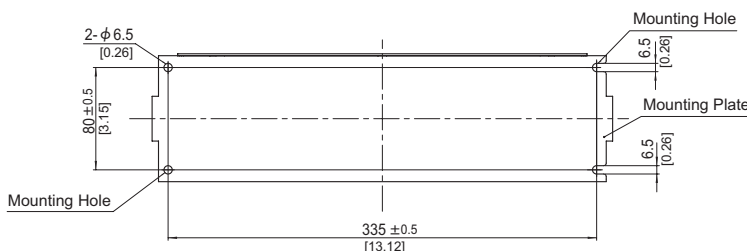
\* Keep free ventilation holes for cooling.

## External view

### FTB-80-□□□ / FTB-100-□□□

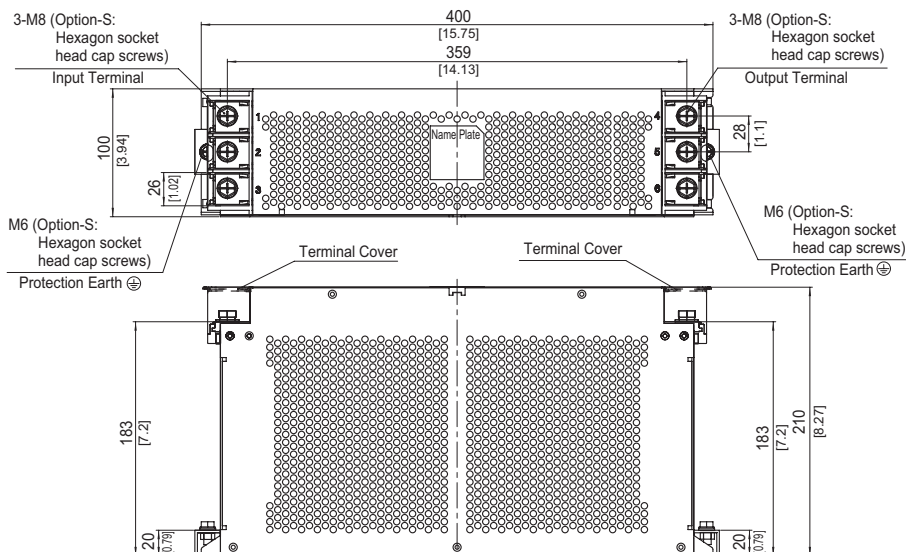


※ The air hole for heat radiation is not on the opposite side side.

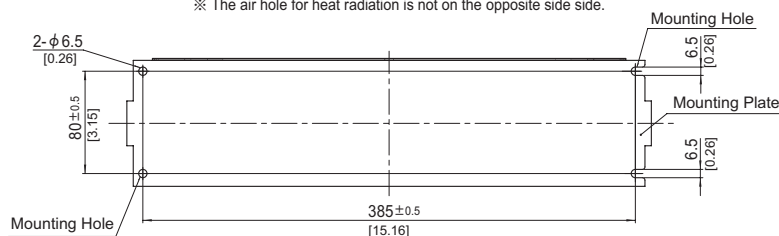


- ※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]
- ※ Weight : 5.3kg max
- ※ Mounting Plate : Aluminum  $t = 2.0$  [0.08]
- ※ Dimensions in mm, [ ]=inches
- ※ Terminal block screw tightening torque  
M8 :  $9.2\text{N} \cdot \text{m}$  (93.9kgf · cm)max
- ※ Protection Earth (PE) screw tightening torque  
M6 :  $5.8\text{N} \cdot \text{m}$  (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 :  $9.2\text{N} \cdot \text{m}$  (93.9kgf · cm)max
- ※ Protection Earth (PE) screw tightening torque  
M6 :  $5.8\text{N} \cdot \text{m}$  (59.2kgf · cm)max
- ※ Can not be mounted upside-down (mounted the top surface)
- ※ Keep free ventilation holes for cooling

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cosel:

[FTB-100-203](#) [FTB-100-203-H](#) [FTB-100-203-HS](#) [FTB-100-203-S](#) [FTB-80-663-HS](#) [FTB-80-324](#) [FTB-80-324-H](#) [FTB-80-324-HS](#) [FTB-80-324-S](#) [FTB-80-663](#) [FTB-80-663-H](#) [FTB-150-663-HS](#) [FTB-150-663-S](#) [FTB-80-203](#) [FTB-80-203-H](#) [FTB-80-203-HS](#) [FTB-80-203-S](#) [FTB-150-324](#) [FTB-150-324-H](#) [FTB-150-324-HS](#) [FTB-150-324-S](#) [FTB-150-663](#) [FTB-150-663-H](#) [FTB-100-663-HS](#) [FTB-100-663-S](#) [FTB-150-203](#) [FTB-150-203-H](#) [FTB-150-203-HS](#) [FTB-150-203-S](#) [FTB-100-324](#) [FTB-100-324-H](#) [FTB-100-324-HS](#) [FTB-100-324-S](#) [FTB-100-663](#) [FTB-100-663-H](#)