

TBC series(50,60,80,100,150A)

TBC -50 -683

① ② ③

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

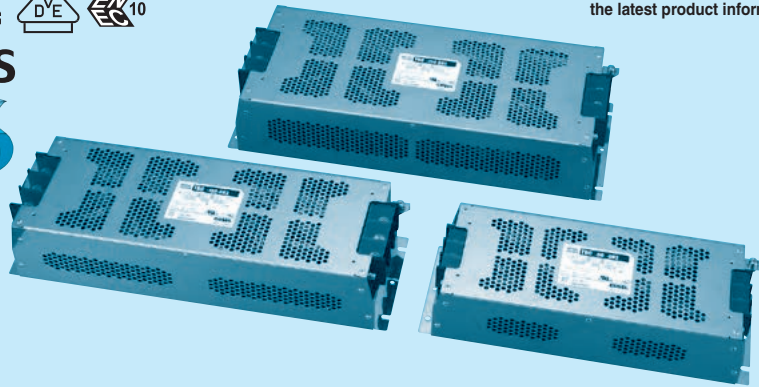
table 1.1 Line to ground capacitor code

| Code | Leakage Current (Input 250/500V 60Hz) | Line to ground capacitor (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 |

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



*Link to www.cosel.co.jp/en for the latest product information.



Features of TBC series

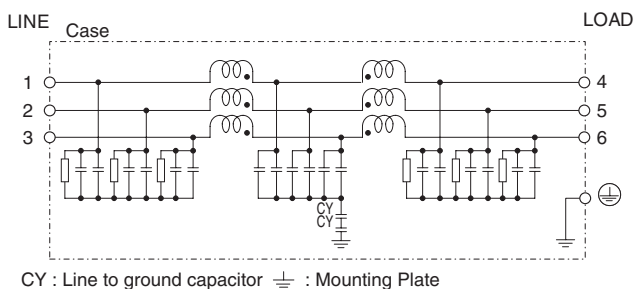
High-attenuation type of common mode noise from 150kHz to 1MHz (2-stage filter)

- Three phase rated voltage 500 VAC (voltage range:528V max)
- Selectable leakage current value

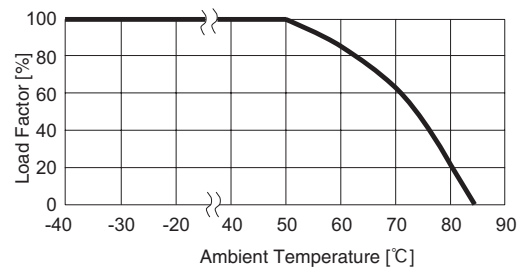
Specifications

| No. | Items | TBC-50-683 | TBC-60-683 | TBC-80-683 | TBC-100-683 | TBC-150-683 |
|-----|--|---|------------|--------------------------|-------------|--------------------------|
| 1 | Rated Voltage[V] | AC Three Phase 500 (voltage range:528 max) 50/60Hz | | | | |
| 2 | Rated Current[A] | 50 | 60 | 80 | 100 | 150 |
| 3 | Test Voltage (Terminal-Mounting Plate) | 2,500 VAC (Cutoff Current = 100mA), 1minute at room temperature and humidity | | | | |
| 4 | Isolation Resistance (Terminal-Mounting Plate) | 500 VDC 100MΩ min at room temperature and humidity | | | | |
| 5 | Leakage current 250/500V 60Hz | 2.5mA/5.0mA max | | | | |
| 6 | DC resistance | 14mΩ max | 10mΩ max | 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 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 | UL1283, CSA C22.2 No.8 (C-UL), DIN EN60939 VDE0565 Teil3-1, ENEC | | | | |
| 14 | Case size (without projection) | 140×80×374 mm (W×H×D) | | 150×92×456 mm (W×H×D) | | 190×92×482 mm (W×H×D) |
| | | [5.51×3.15×14.72 inches] | | [5.91×3.62×17.95 inches] | | [7.48×3.62×18.98 inches] |
| 15 | Weight | 4.3kg max | | 7.7kg max | | 9.6kg max |

Circuit Diagram



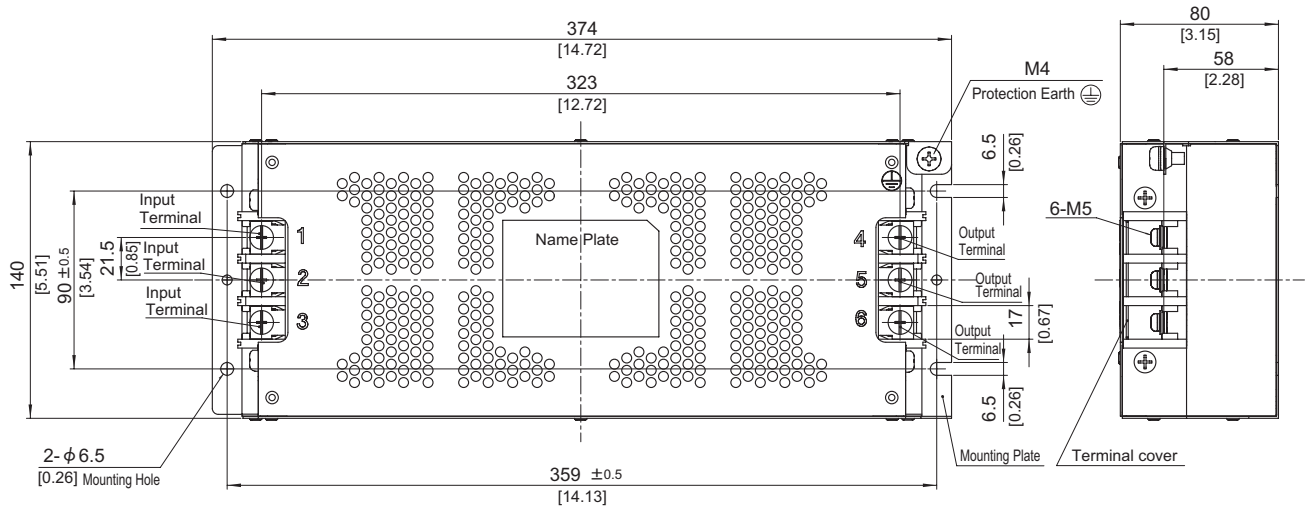
Derating Curve



* Keep free ventilation holes for cooling.

External view

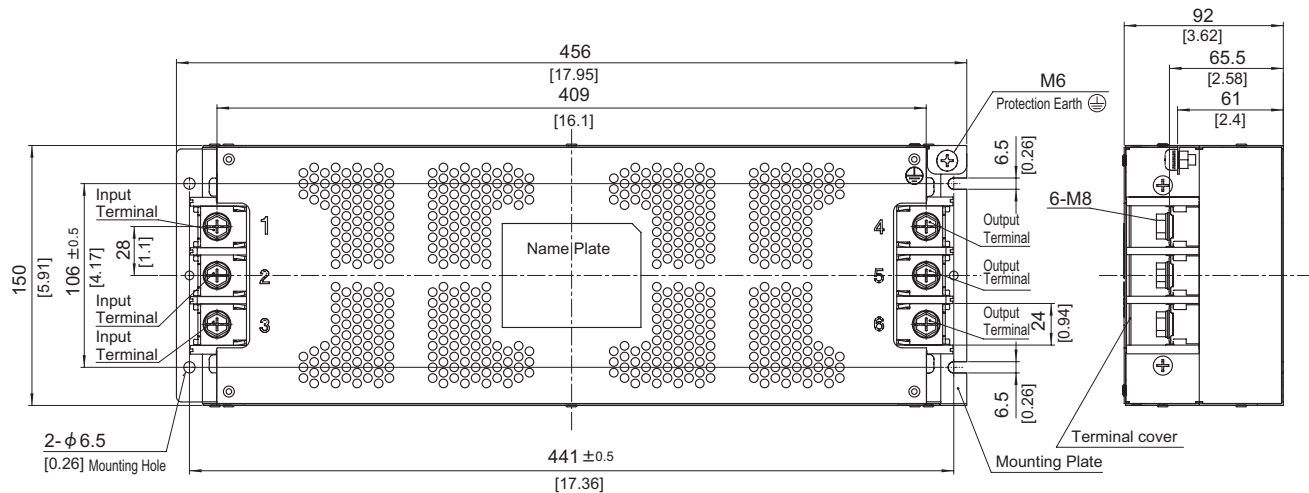
TBC-50-□□□ / TBC-60-□□□



※ Can not be mounted upside-down.
(mounted the top surface)

- ※ Tolerance : ± 1 [± 0.04]
- ※ Weight : 4.3kg max
- ※ Chassis Material : Stainless steel $t=1.0$ [0.04]
- ※ Dimensions in mm, []=inches
- ※ Terminal block screw tightening torque M5:3.0N · m (30.7kgf · cm) max
- ※ Protection Earth screw tightening torque M4:1.6N · m (16.9kgf · cm) max

TBC-80-□□□ / TBC-100-□□□

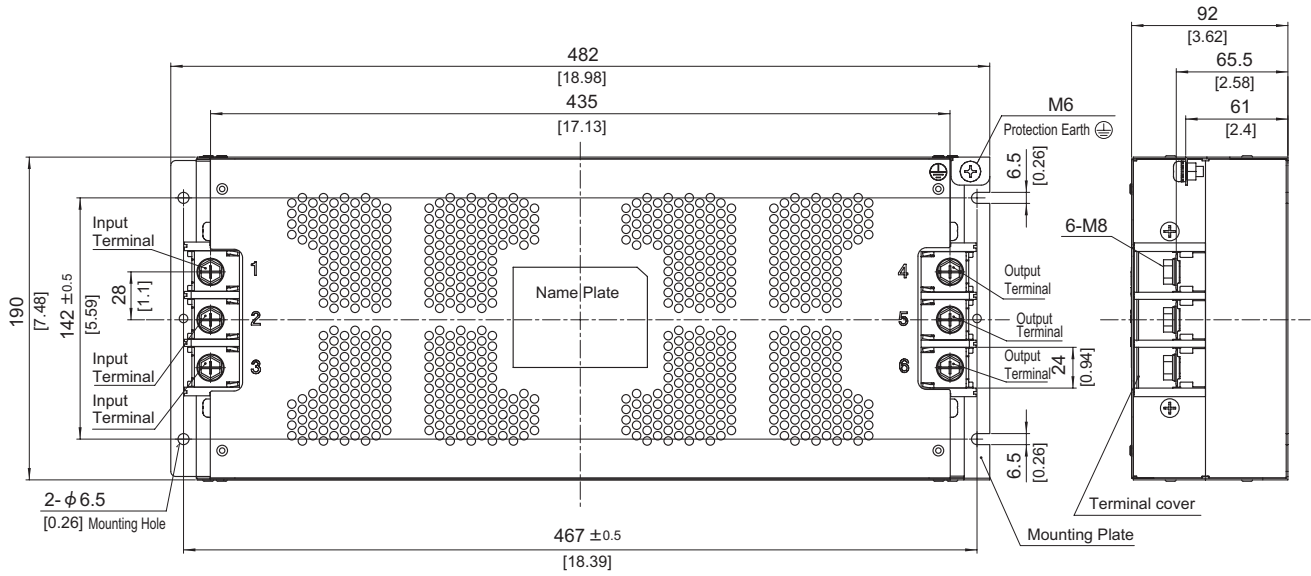


※ Can not be mounted upside-down.
(mounted the top surface)

- ※ Tolerance : ± 1 [± 0.04]
- ※ Weight : 7.7kg max
- ※ Chassis Material : Stainless steel $t=1.0$ [0.04]
- ※ Dimensions in mm, []=inches
- ※ Terminal block screw tightening torque M8:9.2N · m (93.9kgf · cm) max
- ※ Protection Earth screw tightening torque M6:5.8N · m (59.2kgf · cm) max

External view

TBC-150-□□□



※ Can not be mounted upside-down.
(mounted the top surface)

- ※ Tolerance : ± 1 [± 0.04]
- ※ Weight : 9.6kg max
- ※ Chassis Material : Stainless steel $t=1.0$ [0.04]
- ※ Dimensions in mm, []=inches
- ※ Terminal block screw tightening torque M8:9.2N · m (93.9kgf · cm) max
- ※ Protection Earth screw tightening torque M6:5.8N · m (59.2kgf · cm) max