



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

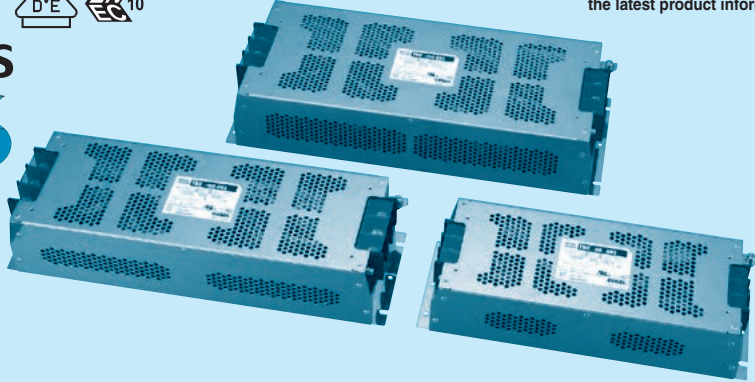
* When the line to ground capacitor code is different, the attenuation characteristic is different.



RoHS



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



Features of TBC series

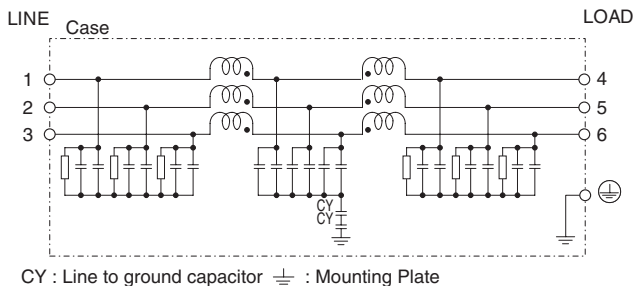
High-attenuation type of common mode noise from 150kHz to 1MHz (2-stage filter)

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

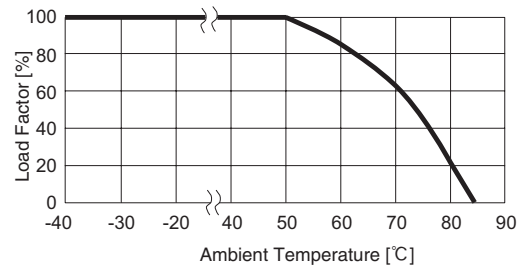
Specifications

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



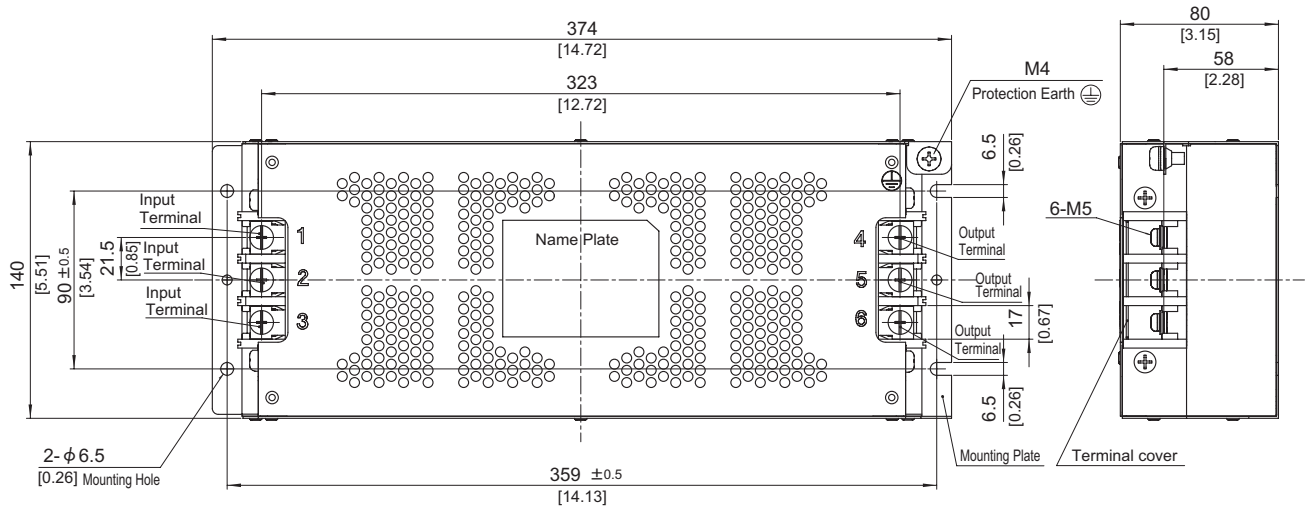
Derating Curve



* Keep free ventilation holes for cooling.

External view

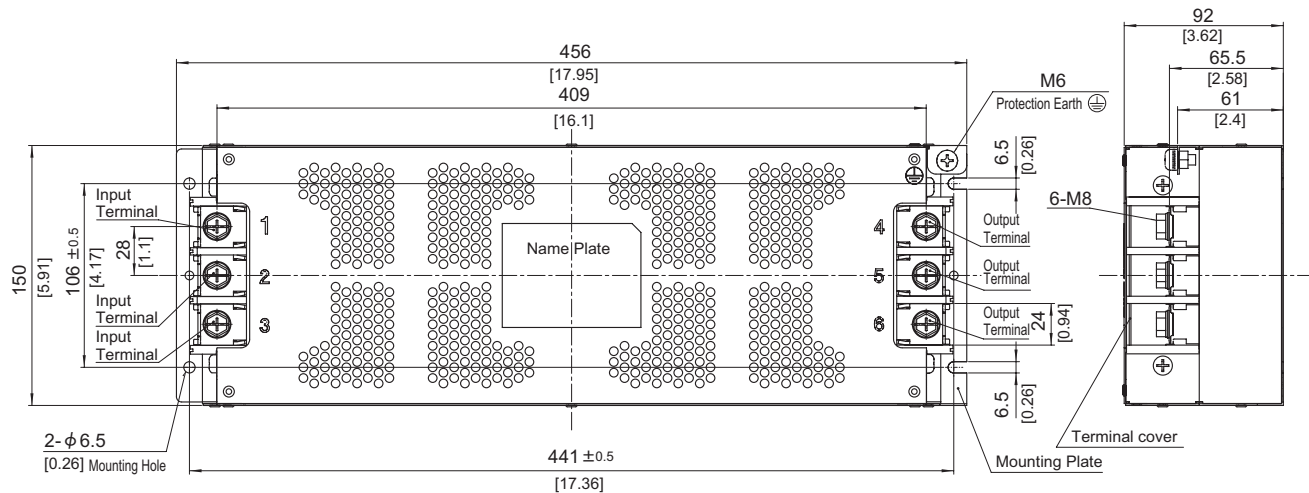
TBC-50-□□□ / TBC-60-□□□



※ 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-□□□

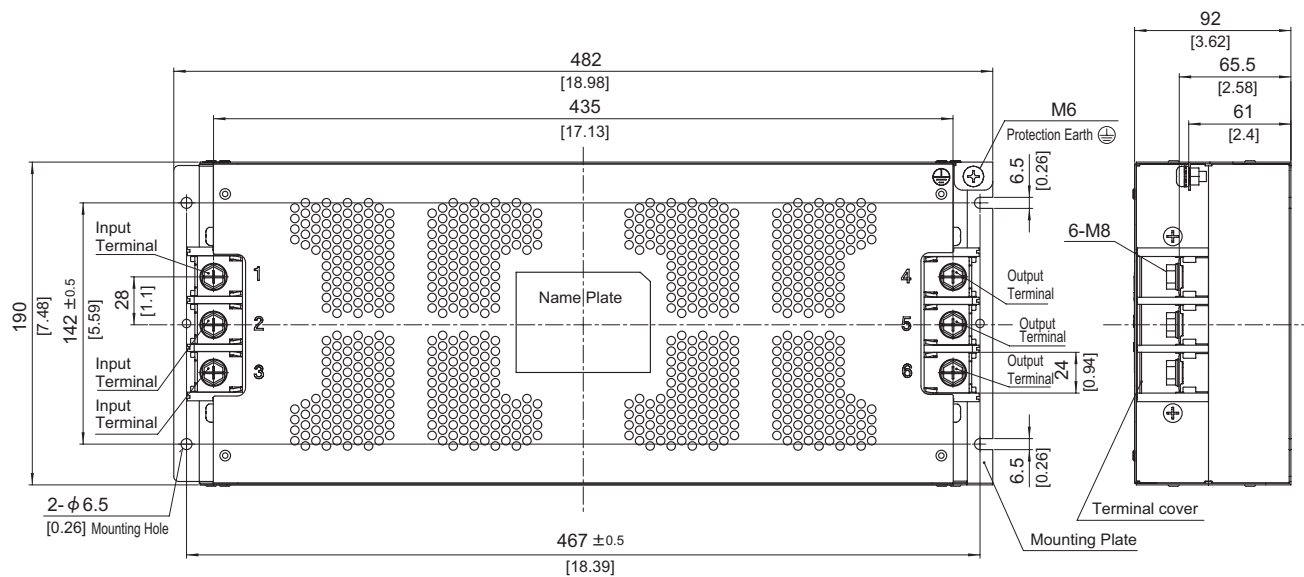


※ Can not be mounted upside-down.
(mounted the top surface)

- ※ 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