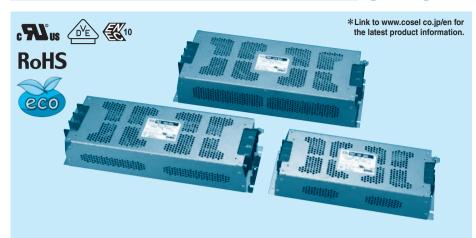
TBC series (50,60,80,100,150A

-683



- ①Model Name ②Rated 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)	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

Features of TBC series

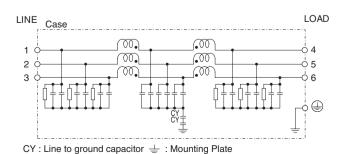
High-attenuation type of common mode noise from 150kHz to 1MHz (2-stage filter)

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

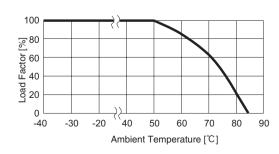
Specifications

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 100M Ω min at room temperature and humidity					
5	Leakage current 250/500V 60Hz	2.5mA/5.0mA max					
6	DC resistance	14mΩ max	$10m\Omega$ max	10m Ω max	$8m\Omega$ max	6mΩ max	
7	Safety agency approval temperatures	-25 to +85 ℃ (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)	140×80×374 mm	(W×H×D)	150 × 92 × 456 mm	n (W×H×D)	190 X92 X482 mm (WXHXD)	
14	Case Size (without projection)	[5.51×3.15×14.7	72 inches]	[5.91 × 3.62 × 17.95 inches]		[7.48 X 3.62 X 18.98 inches]	
15	Weight	4.3kg max		7.7kg max 9.6kg ma		9.6kg max	

Circuit Diagram



Derating Curve



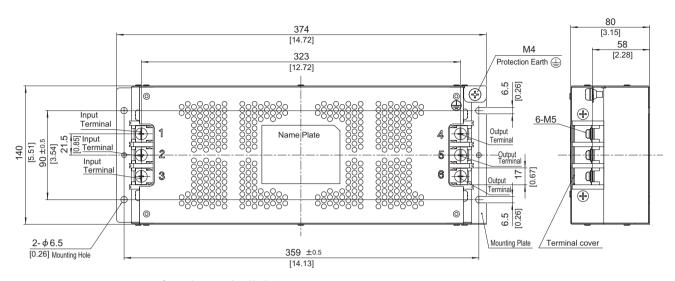
*Keep free ventilation holes for cooling.

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



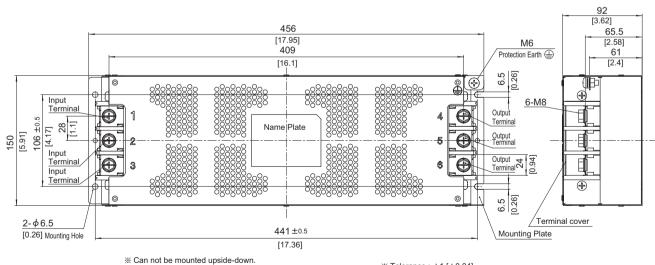
External view

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 \cdot m (30.7kgf \cdot cm) max
- ※ Protection Earth screw tightening torque M4:1.6N · m (16.9kgf · cm) max

TBC-80- / TBC-100-



(mounted the top surface)

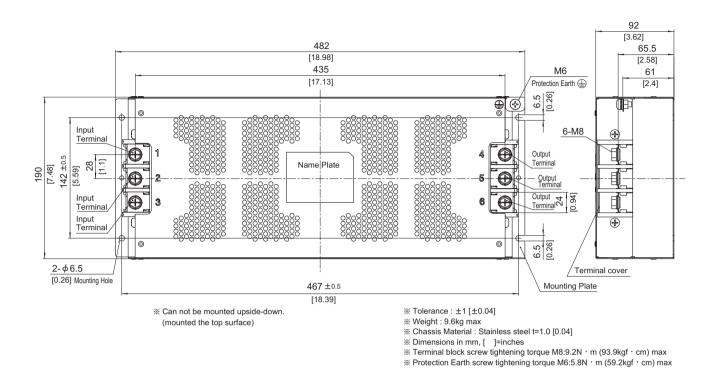
- ※ Tolerance: ±1 [±0.04]
- Weight: 7.7kg max
- Chassis Material: Stainless steel t=1.0 [0.04]
- ※ Dimensions in mm, []=inches
- ※ Terminal block screw tightening torque M8:9.2N ⋅ m (93.9kgf ⋅ cm) max
- Protection Earth screw tightening torque M6:5.8N · m (59.2kgf · cm) max



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

External view

TBC-150-□□□



TBC-3

Mouser Electronics

Authorized Distributor

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

Cosel:

<u>TBC-100-104 TBC-100-223 TBC-100-683 TBC-150-104 TBC-150-223 TBC-150-683 TBC-50-683 TBC-60-683 TBC-</u>