

# TSC series(400,600A)

TSC -600 -665 -□

① ② ③ ④

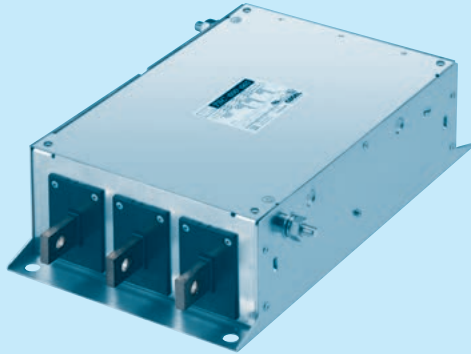
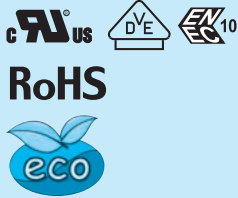
- ① Series Name
- ② Rated Current
- ③ Line to ground capacitor code: See table 1.1

table1.1 Line to ground capacitor code

Code	Leakage Current		Line to ground capacitor (nominal value)		
	Upper row : Δ-connection	Lower row : Y-connection	CY1	CY2	CY3
000*1	50μA/100μA max	50μA/100μA max	Not Provided	Not Provided	Not Provided
304*1	10.5mA/21.0mA max	1.5mA/3.0mA max	0.1μF	0.1μF	0.1μF
664*1	23mA/46mA max	3.5mA/7.0mA max	0.22μF	0.22μF	0.22μF
665*2	220mA/350mA max	20mA/40mA max	2.2μF	2.2μF	2.2μF

- \* When the line to ground capacitor code is different, the attenuation characteristic is different.
- \* Please contact us about low leakage current type (Change to low grounding capacitor).
- \*1 Δ-connection : Input 250/500V 60Hz  
Y-connection : Input 250/500V 60Hz
- \*2 Δ-connection : Input 250/400V 60Hz  
Y-connection : Input 250/500V 60Hz

- ④ Option
- H: Ultra high-attenuation type



## Features of TSC series

- Ultra high-attenuation type of common mode noise from 150kHz to 1MHz (Multi-stage filter)
- Input and output terminals : Busbar type
- Target application: Solar photovoltaic system, Large production equipment
- Selectable leakage current value

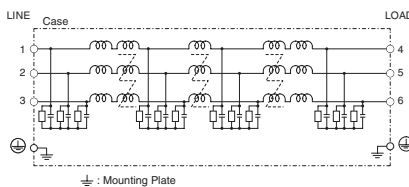
## Specifications

No.	Items	TSC-400-665	TSC-600-665
1	Rated Voltage[V]	AC Three Phase 500(voltage range:528 max)	50/60Hz *3
2	Rated Current[A]	400	600
3	Test Voltage (Terminal-Mounting Plate)	3,600 VDC (Cutoff Current = 10mA), 1minute at room temperature and humidity	
4	Leakage current 250/500V 60Hz	20mA/40mA max (Y-connection)	
5	DC resistance	0.27mΩ max	0.2mΩ max
6	Safety agency approval temperatures	-25 to +85°C (Refer to Derating Curve)	
7	Operating temperature	-40 to +85°C (Refer to Derating Curve)	
8	Operating humidity	20 to 95%RH (Non condensing)	
9	Storage temperature/humidity	-40 to +85°C/20 to 95%RH (Non condensing)	
10	Vibration	10 to 55Hz, 9.8m/s <sup>2</sup> (1G), 3min. Period, 1hour each X, Y and Z axis	
11	Impact	98.1m/s <sup>2</sup> (10G), 11ms Once each X, Y and Z axis	
12	Safety agency approvals	UL1283, CSA C22.2 No.8 (C-UL) , DIN EN60939 VDE0565 Teil3-1, ENEC	
13	Case size (without projection)	210 X 100 X 360 mm [8.27 X 3.94 X 14.17 inches] (W X H X D)	
14	Weight	9.5kg max	10.0kg max

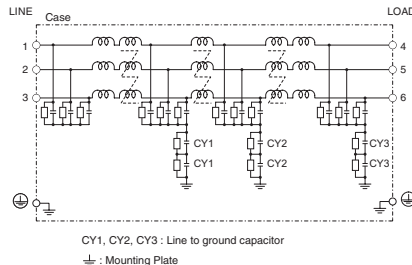
\*3 Only capacitor code "665", Three Phase Δ-connection : 400 (440 max), Y-connection : 500 (528 max)

## Circuit Diagram

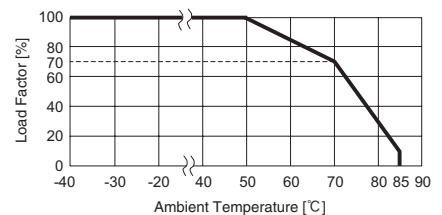
(1) Line to ground capacitor code : 000



(2) Line to ground capacitor code : 304, 664, 665

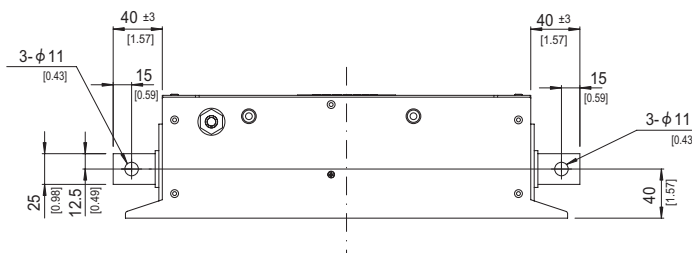
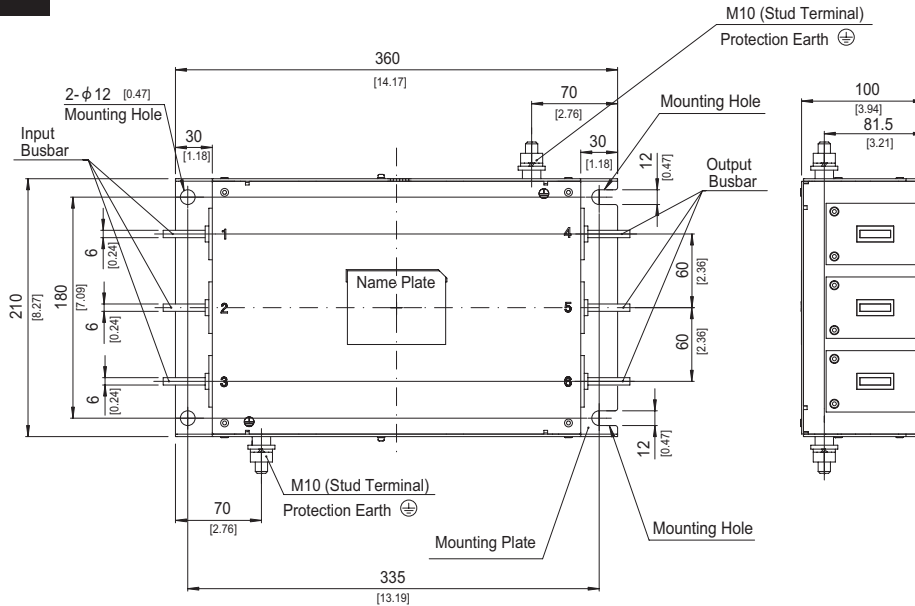


## Derating Curve



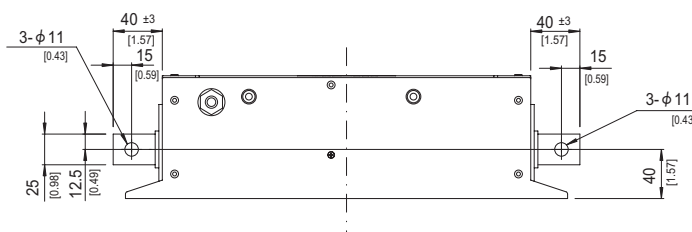
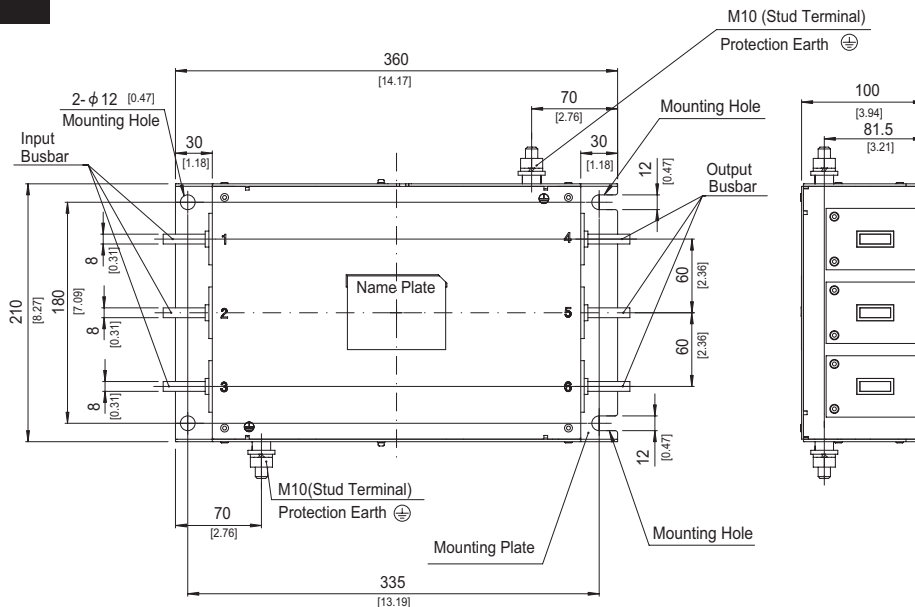
## External view

### TSC-400



- ※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]
- ※ Weight : 9.5kg max
- ※ Mounting Plate : Aluminum t=2.0 [0.08]
- ※ Busbar : Copper (Unplated) t=6.0 [0.24]
- ※ Dimensions in mm, [ ]=inches
- ※ Protection Earth (PE) screw tightening torque  
M10 : 14.2N · m (144.9kgf · cm)max
- ※ Can not be mounted upside-down  
(mounted the top surface)

### TSC-600



- ※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]
- ※ Weight : 10.0kg max
- ※ Mounting Plate : Aluminum t=2.0 [0.08]
- ※ Busbar : Copper (Unplated) t=8.0 [0.31]
- ※ Dimensions in mm, [ ]=inches
- ※ Protection Earth (PE) screw tightening torque  
M10 : 14.2N · m (144.9kgf · cm)max
- ※ Can not be mounted upside-down  
(mounted the top surface)