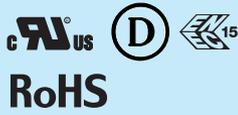


TSD series(400,600A)

TSD -600 -186



① Series 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 *1 Upper row : Δ-connection Lower row : Y-connection	Line to ground capacitor (nominal value)		
		CY1	CY2	CY3
105	45mA/70mA max 3.5mA/7mA max	0.22μF	0.1μF	0.22μF
215	80mA/130mA max 7.5mA/15mA max	1.0μF	0.1μF	1.0μF
665	220mA/350mA max 20mA/40mA max	2.2μF	2.2μF	2.2μF
136	420mA/660mA max 40mA/80mA max	2.2μF	2.2μF	2.2μF
186	540mA/850mA max 50mA/100mA 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 250/400V 60Hz
 Y-connection : Input 250/500V 60Hz

Features of TSD series

Ultra high-attenuation type for motor drive system (Multi-functional regenerative converter)

- Improve saturation resistance
- Input and output terminals : Busbar type
- Target application: Large equipment with Multi-functional regenerative convertor (Transferred equipment, Air conditioning equipment)

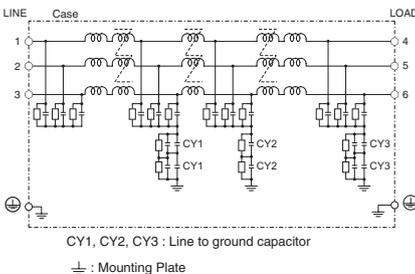
Specifications

No.	Items	TSD-400-186	TSD-600-186
1	Rated Voltage[V]	AC Three Phase Y-connection 500 (voltage range:528 max) 50/60Hz *2	
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	50mA/100mA max (Y-connection)	
5	DC resistance	0.27mΩ max	0.2mΩ max
6	Safety agency approval temperatures	-40 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 ² (1G), 3min. Period, 1hour each X, Y and Z axis	
11	Impact	98.1m/s ² (10G), 11ms Once each X, Y and Z axis	
12	Safety agency approvals	UL60939 [Overvoltage Category : III Altitude 3000m] , CSA C22.2 No.8 (C-UL) EN60939 (DEMKO) [Overvoltage Category: III Altitude 3000m] , ENEC	
13	Case size (without projection)	210x125x360 mm [8.27 X 4.92 X 14.17 inches] (W X H X D)	
14	Weight	10.0kg max	10.5kg max

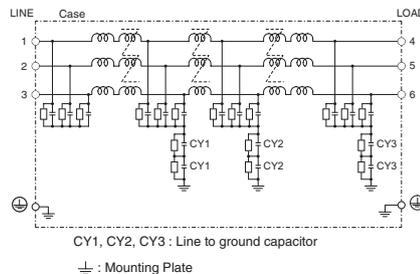
*2 Three Phase Δ-connection:400V (440V max)

Circuit Diagram

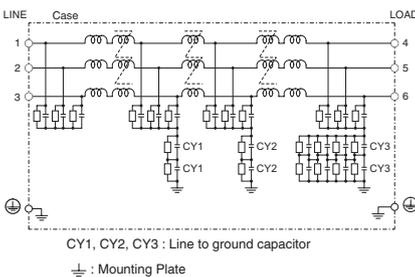
(1) Line to ground capacitor code : 105



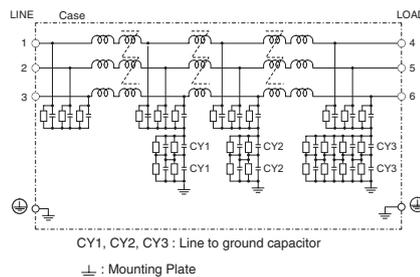
(2) Line to ground capacitor code : 215,665



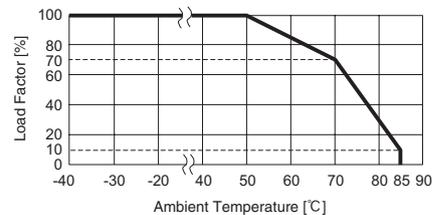
(3) Line to ground capacitor code : 136



(4) Line to ground capacitor code : 186

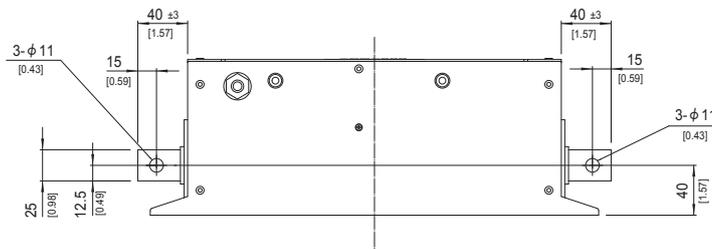
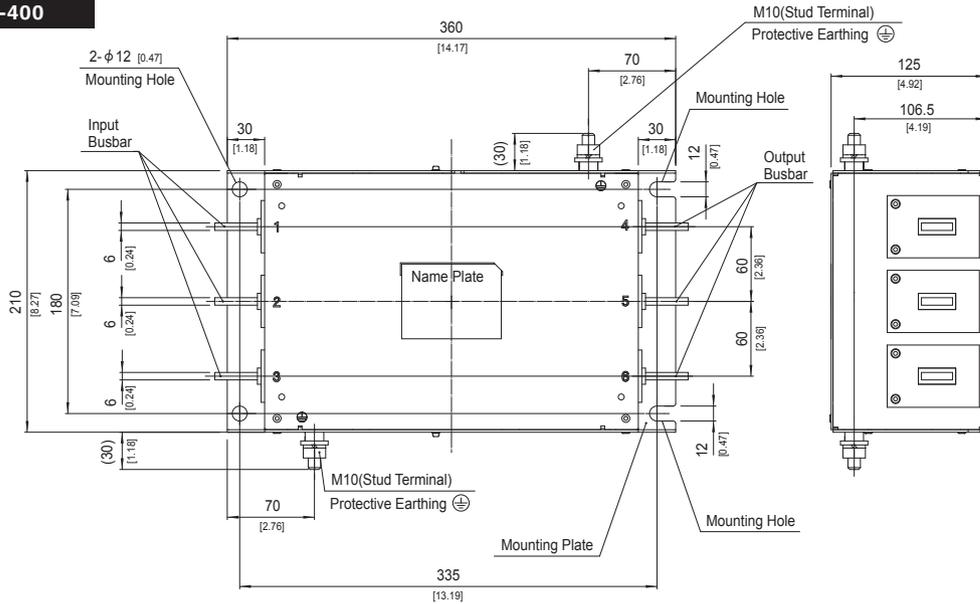


Derating Curve



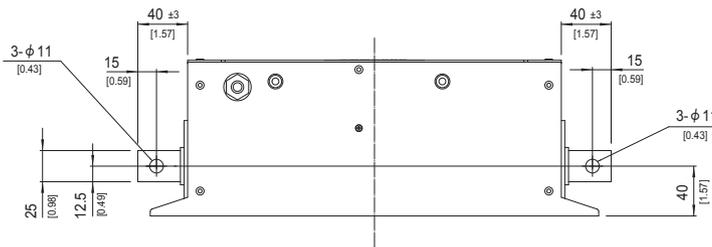
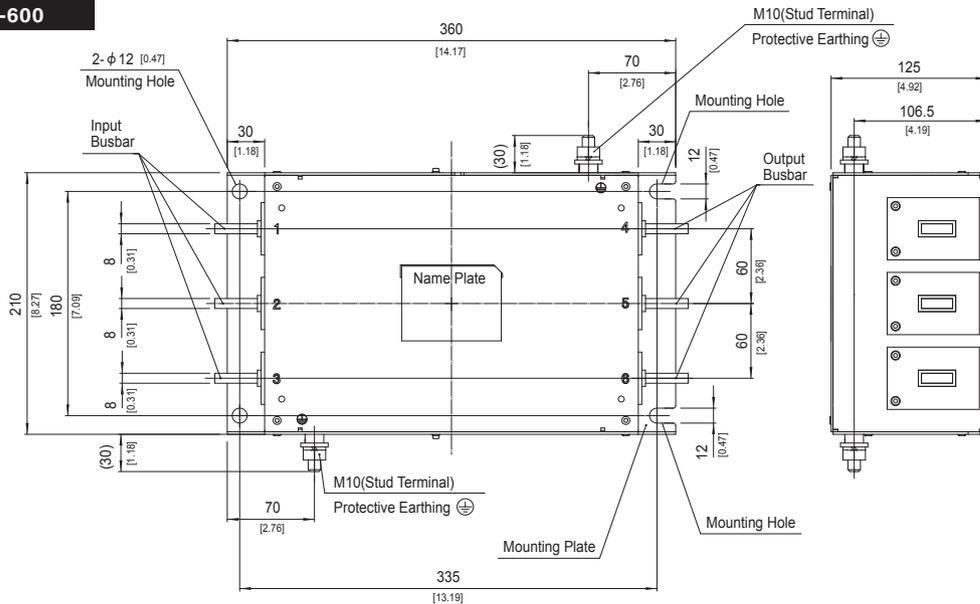
External view

TSD-400



- ※ Dimensions in mm, [] = inches
- ※ Tolerance : ± 1 [± 0.04]
- ※ Weight : 10.0kg max
- ※ Mounting Plate : Aluminum t = 2.0 [0.08]
- ※ Busbar : Copper (Unplated) t = 6.0 [0.24]
- ※ Protective Earthing (PE) screw tightening torque M10 : 14.2N · m max
- ※ Can not be mounted upside-down (mounted the top surface)

TSD-600



- ※ Dimensions in mm, [] = inches
- ※ Tolerance : ± 1 [± 0.04]
- ※ Weight : 10.5kg max
- ※ Mounting Plate : Aluminum t = 2.0 [0.08]
- ※ Busbar : Copper (Unplated) t = 8.0 [0.31]
- ※ Protective Earthing (PE) screw tightening torque M10 : 14.2N · m max
- ※ Can not be mounted upside-down (mounted the top surface)