

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

TAC -50 -223

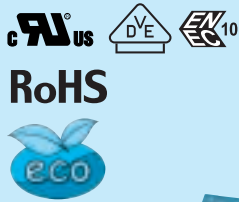
① ② ③

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

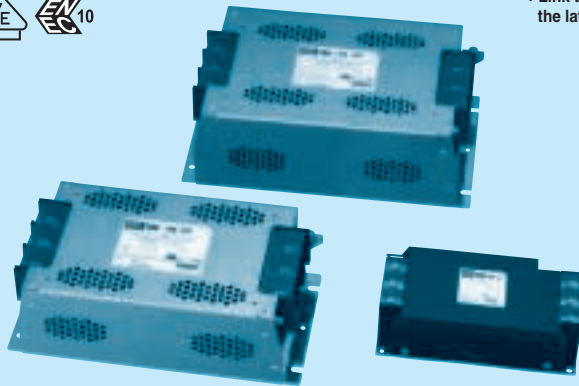
table.1.1 Line to ground capacitor code

| Code | Leakage Current (Input 250/500V 60Hz) | Line to ground capacitor (nominal value) |
|------|---------------------------------------|--|
| 103 | 1.0mA/2.0mA max | 10,000pF |
| 223 | 2.5mA/5.0mA max | 22,000pF |
| 333 | 3.5mA/7.0mA max | 33,000pF |

*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 TAC series

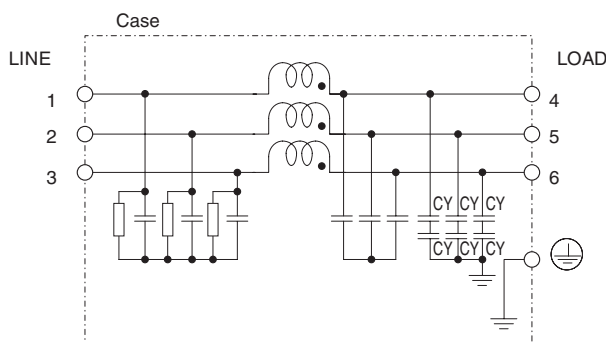
High-attenuation type of common mode noise from 150kHz to 1MHz (1-stage filter)

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

Specifications

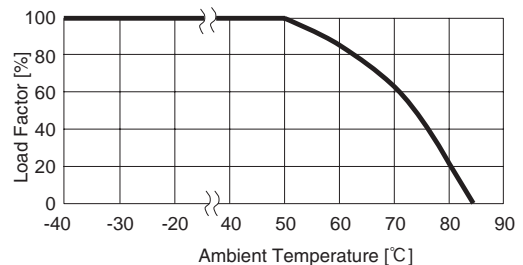
| No. | Items | TAC-50-223 | TAC-60-223 | TAC-80-223 | TAC-100-223 | TAC-150-223 |
|-----|--|---|------------|-------------------------------|-------------|-------------------------------|
| 1 | Rated Voltage[V] | AC Three Phase 500 (voltage range:528 max) | | | | |
| 2 | Rated Current[A] | 50 | 60 | 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 | 7mΩ max | 5mΩ max | 5mΩ max | 4mΩ max | 3mΩ 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) | 90 X 54 X 179 mm (W X H X D) | | 140 X 85 X 267 mm (W X H X D) | | 170 X 92 X 285 mm (W X H X D) |
| | | [3.54 X 2.13 X 7.05 inches] | | [5.51 X 3.35 X 10.51 inches] | | [6.69 X 3.62 X 11.22 inches] |
| 15 | Weight | 1.4kg max | | 3.8kg max | | 4.8kg max |

Circuit Diagram



CY : Line to ground capacitor : Mounting Plate

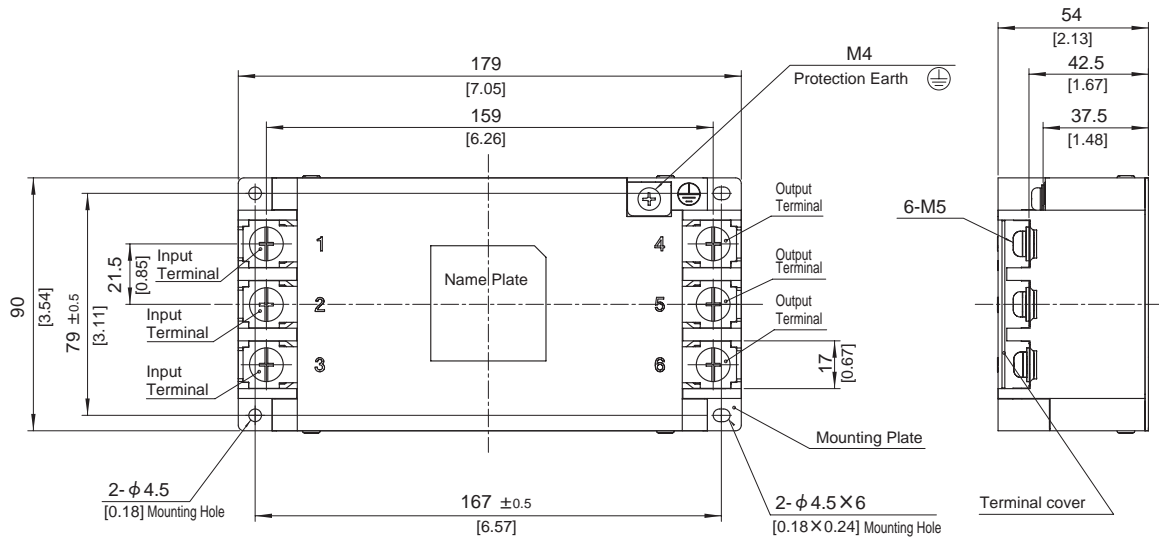
Derating Curve



* Keep free ventilation holes for cooling.

External view

TAC-50-□□□ / TAC-60-□□□



※ Can not be mounted upside-down.

※ Tolerance : ± 1 [± 0.04]

※ Weight : 1.4kg max

※ Mounting Plate : Iron (surface finishing:nickel plating) $t=1.2$ [0.05]

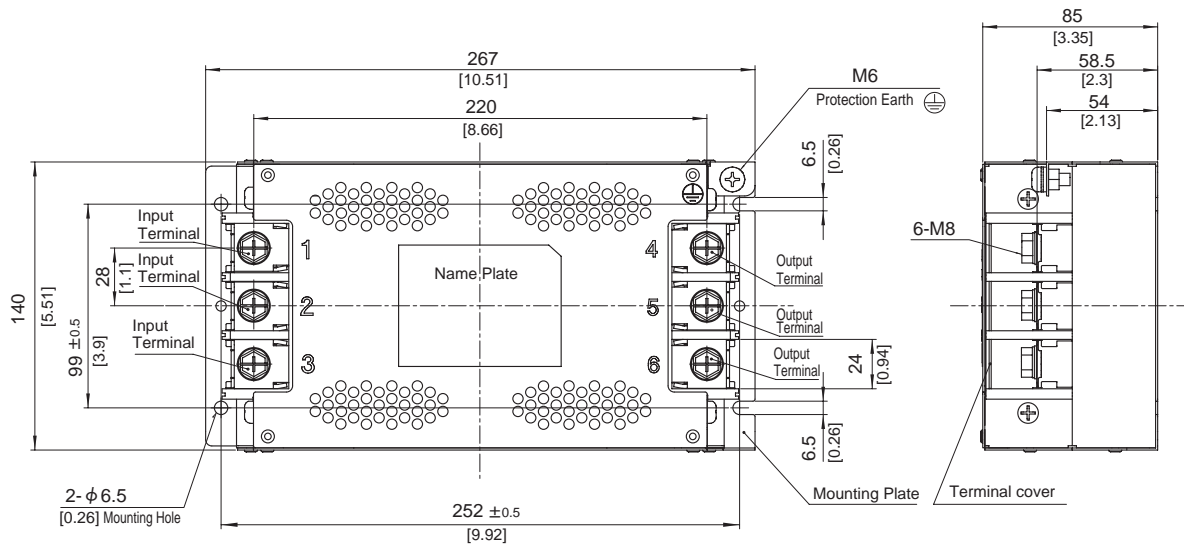
※ Case : PBT

※ 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

TAC-80-□□□ / TAC-100-□□□



※ Can not be mounted upside-down.

※ Tolerance : ± 1 [± 0.04]

※ Weight : 3.8kg max

※ Chassis Material : Stainless steel $t=1.0$ [0.04]

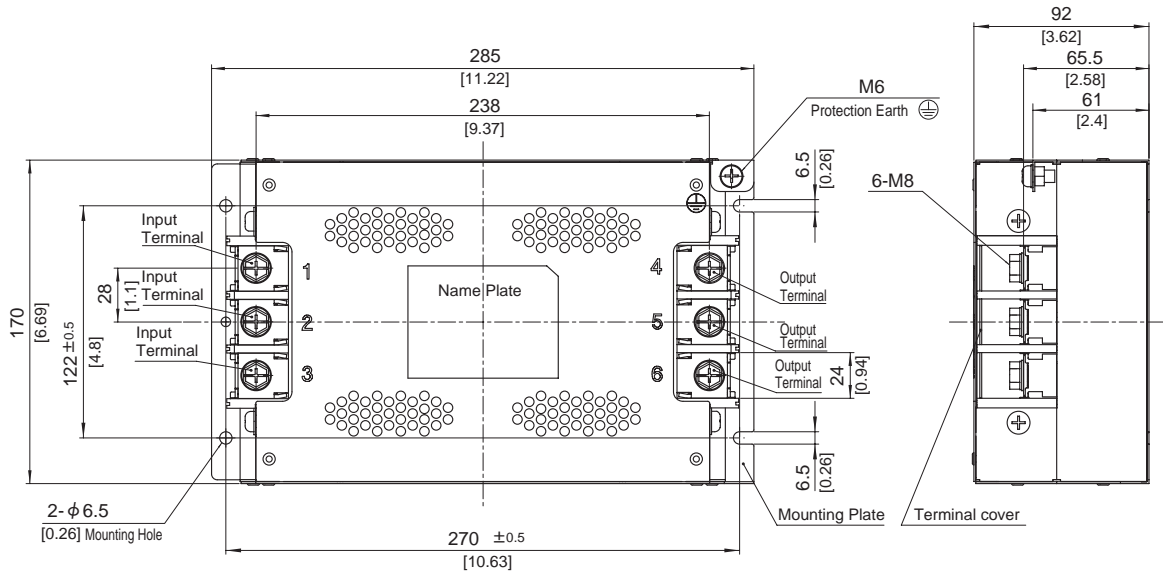
※ Dimensions in mm, []=inches

※ 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

TAC-150-□□□



※ Can not be mounted upside-down.

※ Tolerance : ±1 [±0.04]

※ Weight : 4.8kg 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