

TAC/TAH series (4-30A)

TAC -10 -683 -□

① ② ③ ④

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

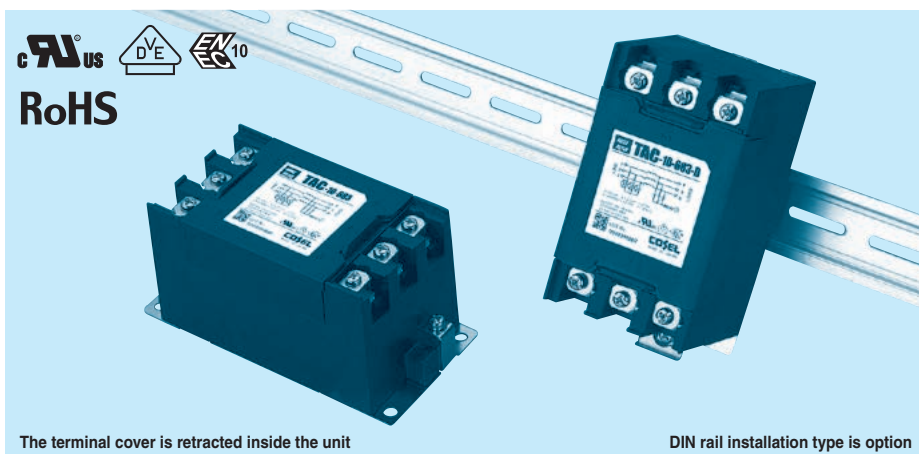
table 1.1 Line to ground capacitor code

Code	Leakage Current (Input 250/500V 60Hz)	Line to ground capacitor (nominal value)
103	0.5mA/1.0mA max	10,000pF
223	1.0mA/2.0mA max	22,000pF
683	2.5mA/5.0mA max	68,000pF

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

- ④ Option
D: DIN rail installation type

* The dimensions change when the option is set.
Refer to External view.



The terminal cover is retracted inside the unit

DIN rail installation type is option

Features of TAC/TAH series

- Three phase rated voltage 500VAC (voltage range: 528V max) (1-Stage filter)
- Selectable leakage current value
- Quick and easy push-down terminal

Just connect the wires, push-down and tighten the screws with a screwdriver.

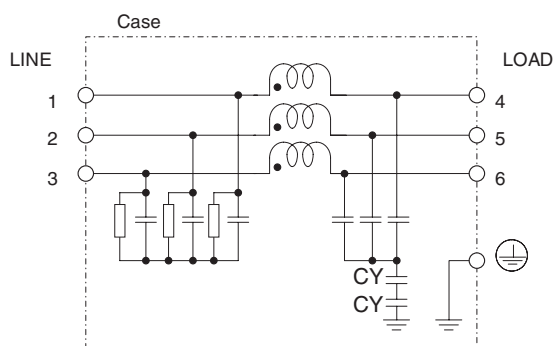
■ TAC: High-attenuation type from 150kHz to 1MHz

■ TAH: Ultra high-attenuation type from 9kHz to 1MHz

Specifications

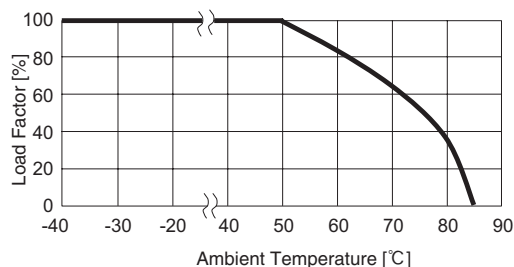
No.	Items	TAC-04-683	TAC-06-683	TAC-10-683	TAC-20-683	TAC-30-683
		TAH-04-683	TAH-06-683	TAH-10-683	TAH-20-683	TAH-30-683
1	Rated Voltage[V]	AC Three Phase 500 (voltage range:528 max) 50/60Hz				
2	Rated Current[A]	4	6	10	20	30
3	Test Voltage (Terminal-Mounting Plate)	2,000 VAC (Cutoff Current = 100mA), 1minute at room temperature and humidity				
4	Isolation Resistance (Terminal-Mounting Plate)	500 VDC 100MΩ min at room temperature and humidity				
5	Leakage current	Refer to table 1.1				
6	Voltage drop	1.5V max		1.0V max		
7	Safety agency approval temperatures	-25 to +85℃ (Refer to Derating Curve)				
8	Operating temperature	-40 to +85℃ (Refer to Derating Curve)				
9	Operating humidity	20 to 95%RH (Non condensing)				
10	Storage temperature/humidity	-40 to +85℃/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) /Weight	63×64×128 mm [2.48×2.52×5.04 inches] (W×H×D) / 620g max (Option : -D refer to external view)				

Circuit Diagram



CY : Line to ground capacitor ⊥ : Mounting Plate

Derating Curve

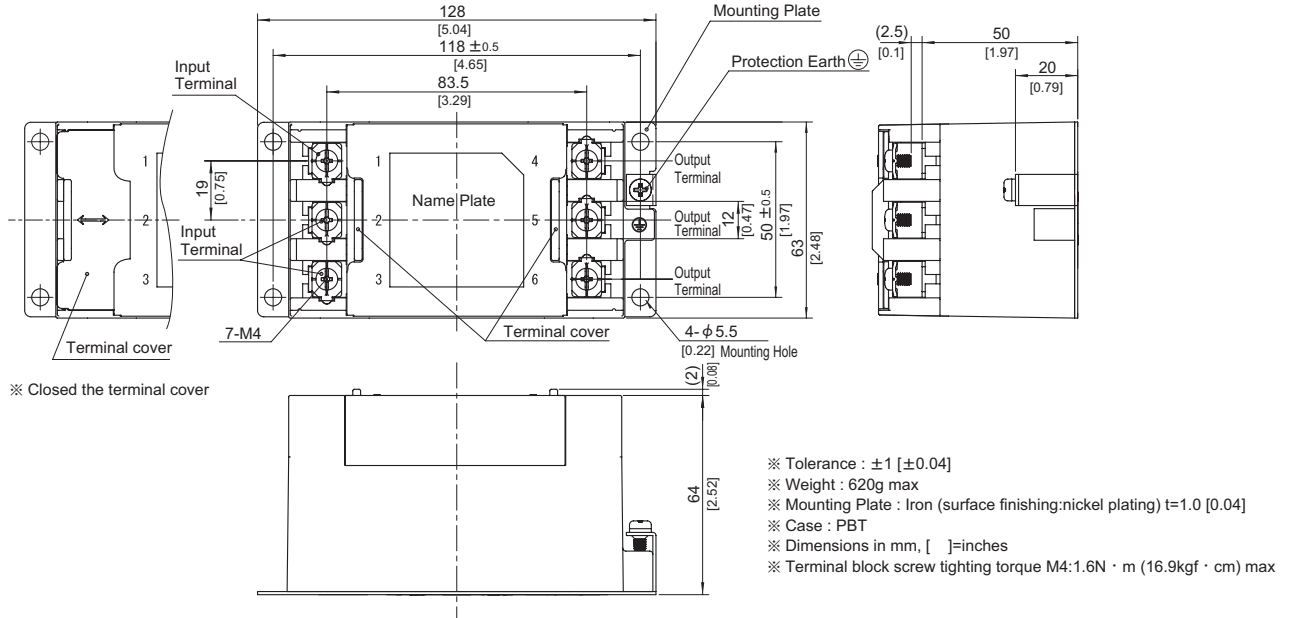


External view

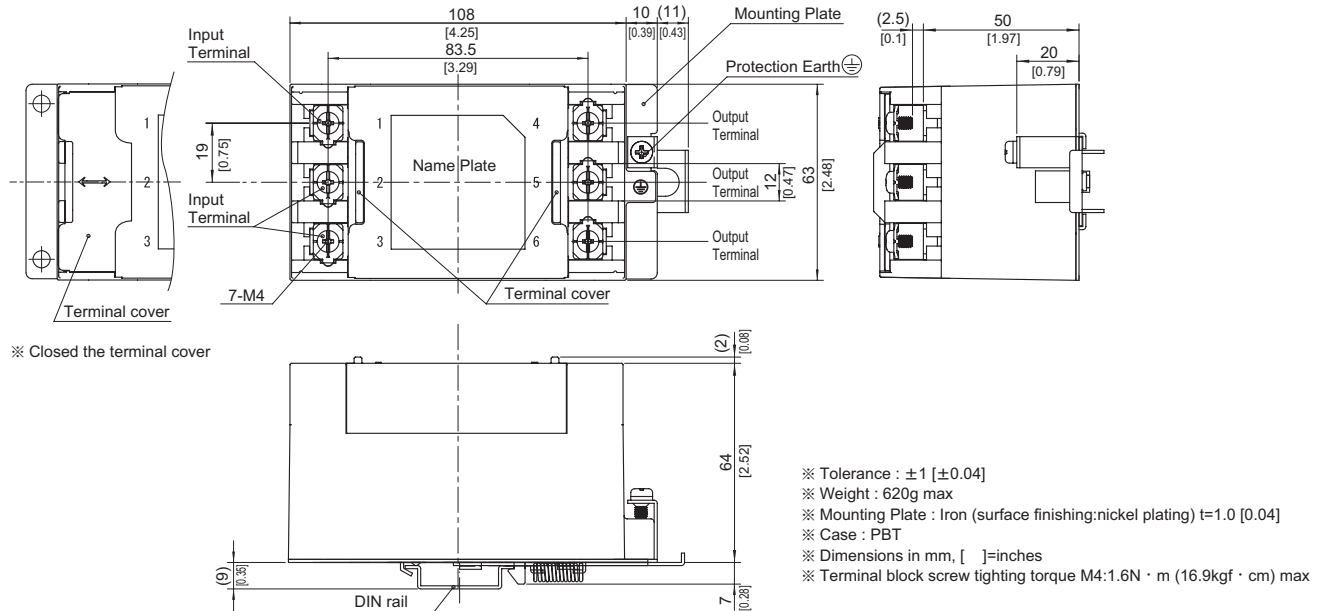
This product is shipped in the following condition, because it is equipped with push-down terminals.

- ① The terminal cover is closed.
- ② The screws for connecting the terminals are held in the up right position.

Standard Type



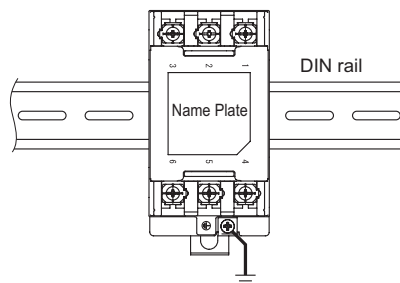
DIN rail installation Type



■Note when installing the EMI/EMC Filter on a DIN rail.

When the EMI/EMC Filter is grounded through the DIN rail, the proper noise attenuation may not be achieved.

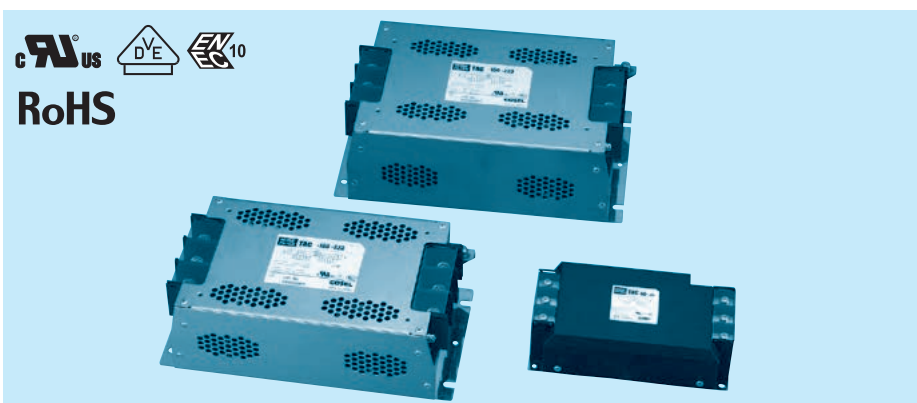
Be sure to connect the protection earth (PE) of the EMI/EMC Filter body to the earth.



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

TAC -50 -223 -

① ② ③ ④



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

table1.1 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.

- ④ Option
U: Improve differential mode attenuation
(Rated voltage 250V)

Features of TAC/TAH series

- **Three phase rated voltage 500VAC (voltage range:528V max) (1-Stage filter)**
- **Selectable leakage current value**

■ **TAC: High-attenuation type from 150kHz to 1MHz**

■ **TAH:** Ultra high-attenuation type from 9kHz to 1MHz

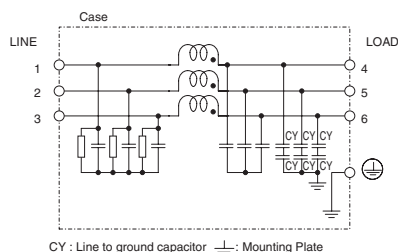
Specifications

No.	Items	TAC-50-223	TAC-60-223	TAC-80-223	TAC-100-223	TAC-150-223
		TAH-50-223	TAH-60-223	TAH-80-223	TAH-100-223	TAH-150-223
1	Rated Voltage[V]	AC Three Phase 500 (voltage range:528 max) 50/60Hz *1				
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	Refer to table 1.1				
6	DC resistance	7mΩ max	5mΩ max	5mΩ max	4mΩ max	3mΩ max
7	Safety agency approval temperatures	-25 to +85℃ (Refer to Derating Curve)				
8	Operating temperature	-40 to +85℃ (Refer to Derating Curve)				
9	Operating humidity	20 to 95%RH (Non condensing)				
10	Storage temperature/humidity	-40 to +85℃/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)	90×54×179 mm (W×H×D) [3.54×2.13×7.05 inches]			140×85×267 mm (W×H×D) [5.51×3.35×10.51 inches]	
15	Weight	1.4kg max			3.8kg max 4.8kg max	

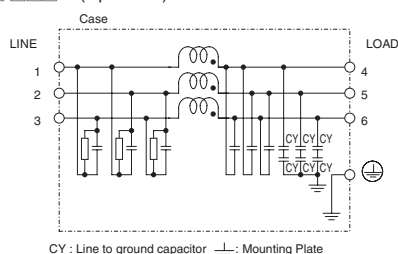
*1 Only "TAC/TAH- - - - -U". Three Phase 250 (275 max)

Circuit Diagram

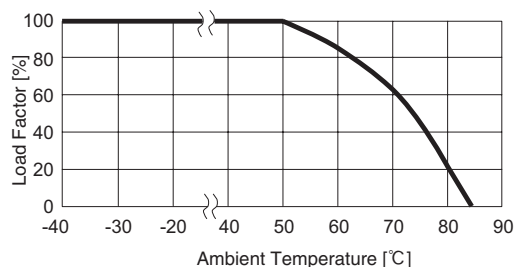
(1) TAC--



(2) TAC-□□□-□□□-U (Option : U)



Derating Curve

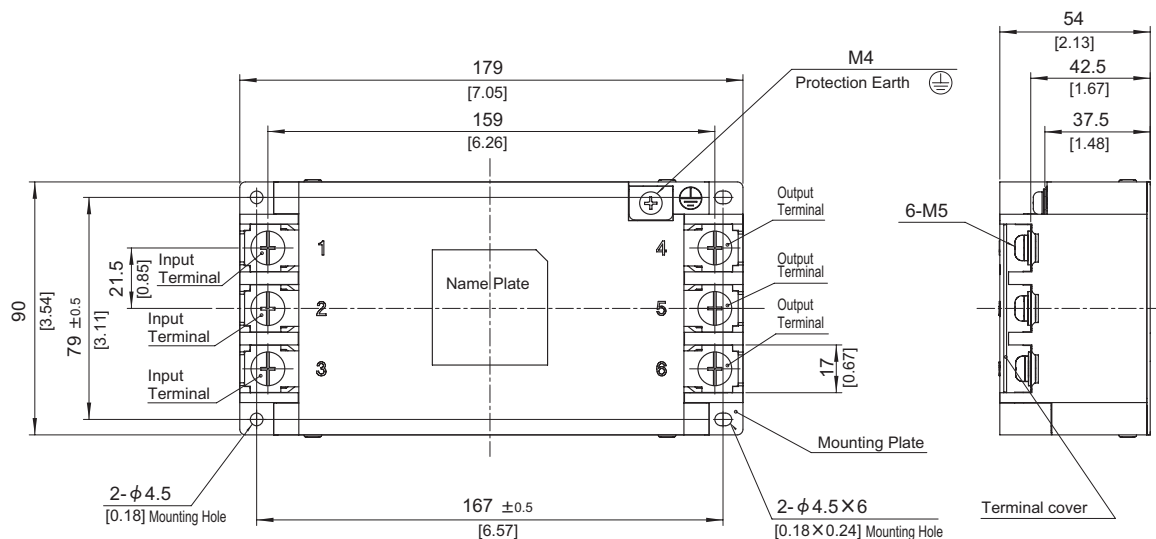


*Keep free ventilation holes for cooling.

External view

TAC-50-□□□ / TAC-60-□□□

TAH-50-□□□ / TAH-60-□□□

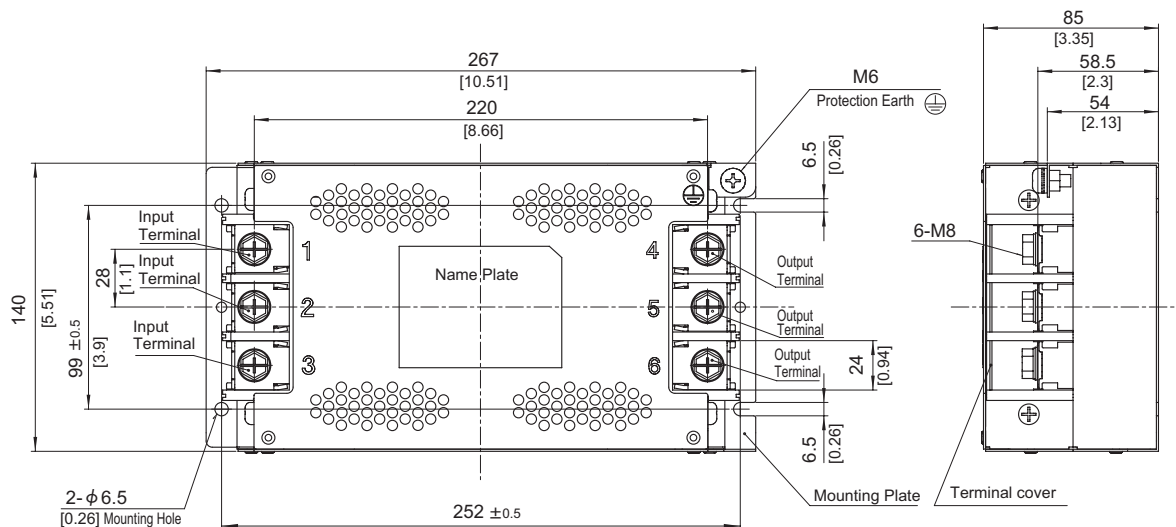


※ Can not be mounted upside-down.
(mounted the top surface)

※ 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-□□□

TAH-80-□□□ / TAH-100-□□□

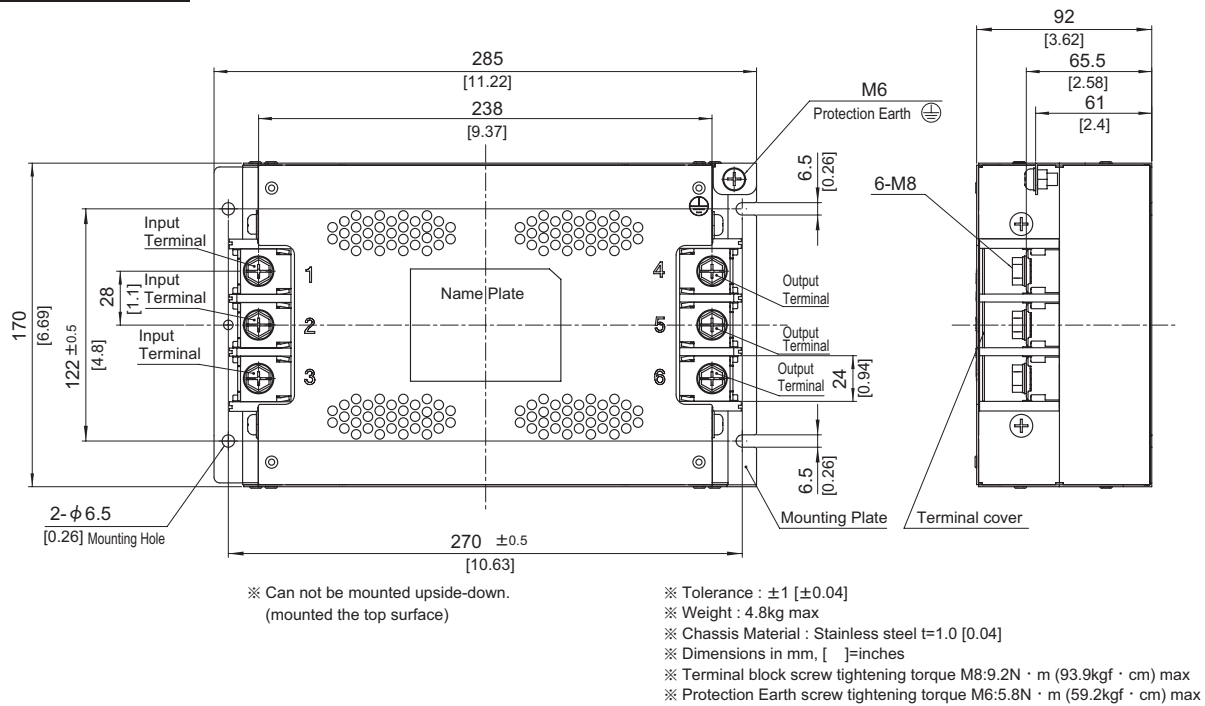


※ Can not be mounted upside-down.
(mounted the top surface)

※ 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-□□□
TAH-150-□□□



TAC series(200,250,300A)

TAC -200 -223 -□

① ② ③ ④

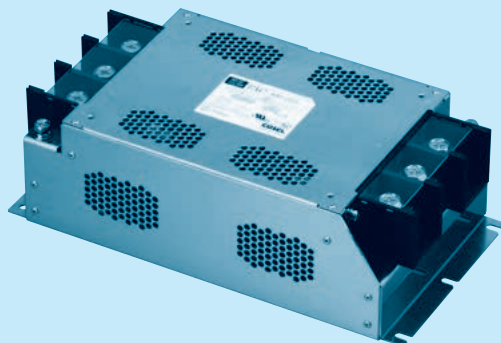
- ① Model Name
② Rated Current
③ Line to ground capacitor code: See table 1.1.

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.

- ④ Option
U: Improve differential mode attenuation
(Rated voltage 250V)



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

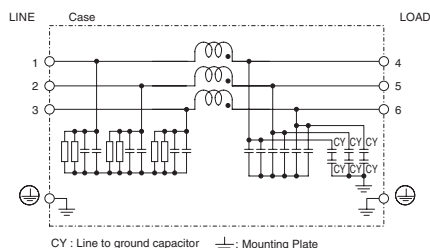
Specifications

No.	Items	TAC-200-223	TAC-250-223	TAC-300-223
1	Rated Voltage[V]	AC Three Phase 500 (voltage range: 528 max) 50/60Hz *1		
2	Rated Current[A]	200	250	300
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	2mΩ max	1.5mΩ max	1mΩ 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)	190 X 110 X 360 mm [7.48 X 4.33 X 14.17 inches] (W X H X D)		
15	Weight	8.0kg max		

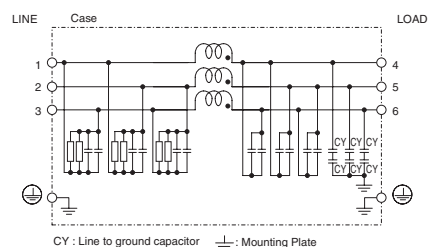
*1 Only "TAC-□□□-□□□-U", Three Phase 250 (275 max)

Circuit Diagram

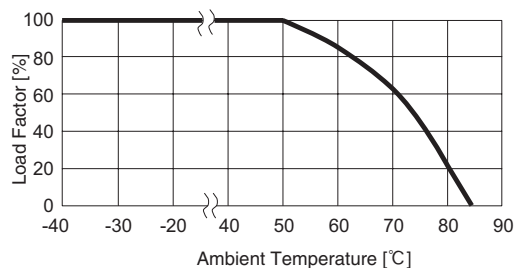
(1) TAC-□□□-□□□



(2) TAC-□□□-□□□-U (Option : U)

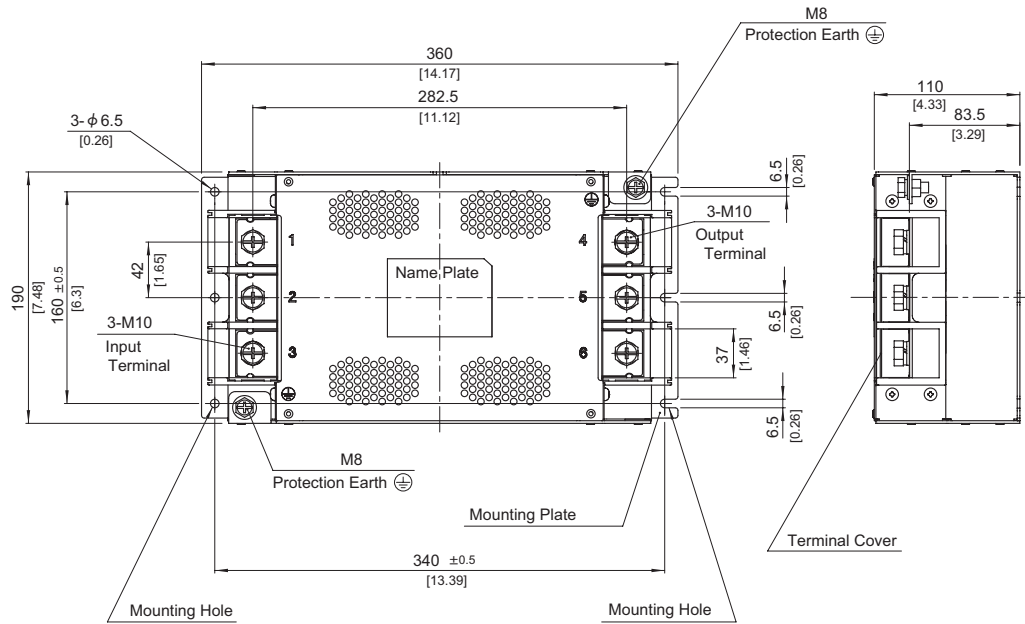


Derating Curve



* Keep free ventilation holes for cooling.

External view



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

- ※ Tolerance : ± 1 [± 0.04]
- ※ Weight : 8.0kg max
- ※ Mounting Plate : Stainless steel $t=2.0$ [0.08]
- ※ Dimensions in mm, []=inches
- ※ Terminal block screw tightening torque M10 : 14.2N · m (144.9kgf · cm) max
- ※ Protection Earth screw tightening torque M8 : 9.2N · m (93.9kgf · cm) max