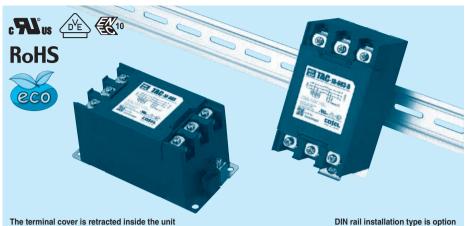
#### Ordering information

-10



- ① Series Name ② Rated Current ③ Line 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	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
- 4 Option
- D:DIN rail installation type
- \* The dimensions change when the option is set. Refer to External view.

### 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**

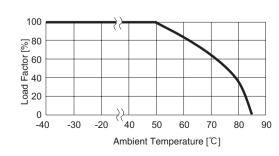
9000						
No.	Itama	TAC-04-683	TAC-06-683	TAC-10-683	TAC-20-683	TAC-30-683
	Items	TAH-04-683	TAH-06-683	TAH-10-683	TAH-20-683	TAH-30-683
1	Rated Voltage[V]	AC Three Phase 500 (voltage range:528 max) 50/60Hz			'	
2	Rated Current[A]	4	6	10	20	30
3	Test Voltage (Terminal-Mounting Plate)	2,000 VAC (Cutoff Current = 100mA), 1minute at room temperature and humidity				
4	Isolation Resistance (Terminal-Mounting Plate)	500 VDC 100MΩ	min at room tempe	erature and humidit	у	
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**

# Case LINE LOAD 2 **.**00 3

#### CY: Line to ground capacitor \( \precedit{\precedit} \): Mounting Plate

#### **Derating Curve**





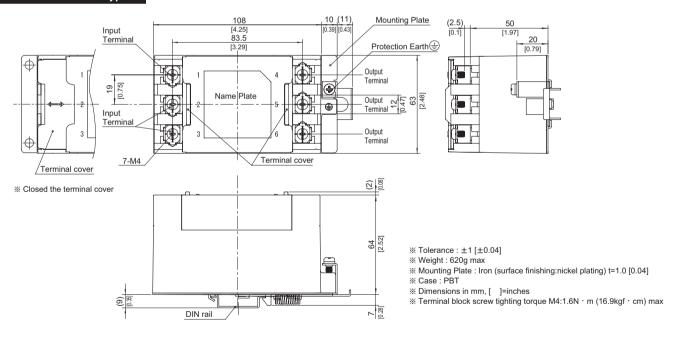
### **External view**

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

- 1)The terminal cover is retracted inside the unit.
- ②The screws for connecting the terminals are held in the up right position.

#### Standard Type 128 [5.04] 118 ±0.5 Mounting Plate Protection Earth [4.65] 83.5 Input 20 Terminal Output Name Plate Input Termina Output Terminal Terminal cover $4 - \phi 5.5$ [0.22] Mounting Hole 20.08 Closed the terminal cover % Tolerance : ±1 [±0.04] \* Weight : 620g max 64 [2.52] Mounting Plate: Iron (surface finishing:nickel plating) t=1.0 [0.04] \* Case : PBT ※ Dimensions in mm, [ ]=inches ※ Terminal block screw tighting torque M4:1.6N ⋅ m (16.9kgf ⋅ cm) max

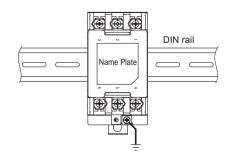
#### DIN rail installation Type



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

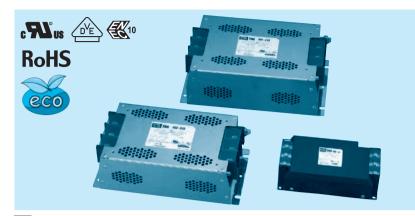
When the EMI/EMC Filter is grounded through the DIN rail, the proper noise attenuation may not be achieved.

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



# series (50,60,80,100,

-50



- ①Series Name ②Rated Current
- 3 Line 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

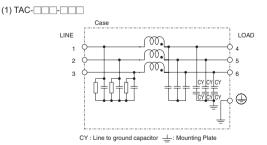
#### ■ TAH: Ultra high-attenuation type from 9kHz to 1MHz

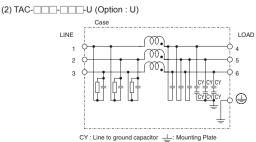
#### **Specifications**

NI-	Ham.a	TAC-50-223	TAC-60-223	TAC-80-223	TAC-100-223	TAC-150-223
No.	Items	TAH-50-223	TAH-60-223	TAH-80-223	TAH-100-223	TAH-150-223
1	Rated Voltage[V]	AC Three Phase 5	500 (voltage range:5	28 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 ter	mperature and hum	idity
4	Isolation Resistance (Terminal-Mounting Plate)	500 VDC 100M $\Omega$ min at room temperature and humidity				
5	Leakage current	Refer to table 1.1				
6	DC resistance	$7m\Omega$ max	$5m\Omega$ max	$5m\Omega$ max	$4m\Omega$ 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/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	O ( 4b4	90 × 54 × 179 mm	(W×H×D)	140×85×267 mm	n (W×H×D)	170 X92 X285 mm (WXHXD)
14	Case size (without projection)	[3.54×2.13×7.05	inches]	[5.51 × 3.35 × 10.5	51 inches]	[6.69 X 3.62 X 11.22 inches]
15	Weight	1.4kg max				

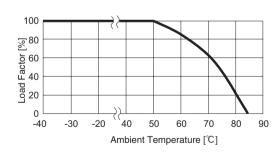
<sup>\*1</sup> Only "TAC/TAH-\_\_\_-U", Three Phase 250 (275 max)

#### Circuit Diagram





#### **Derating Curve**



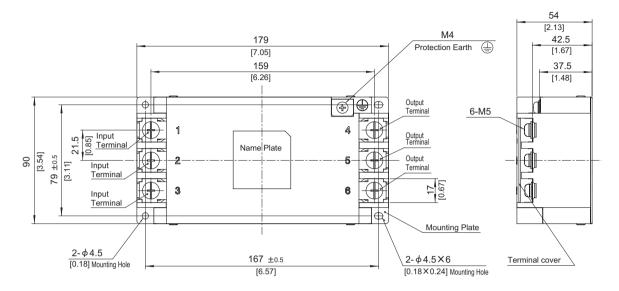
\*Keep free ventilation holes for cooling.



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

#### **External view**

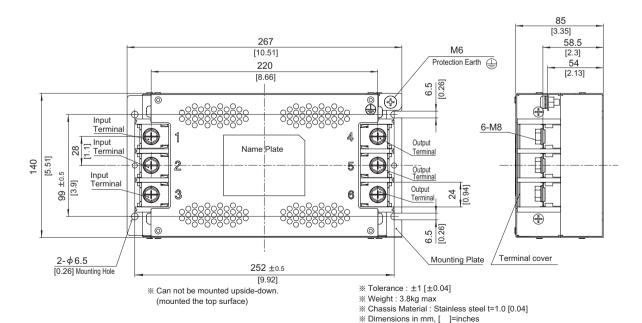
#### TAC-50- / TAC-60-TAH-50- / TAH-60-



- % 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

※ 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

#### TAC-80- / TAC-100-TAH-80- / TAH-100-



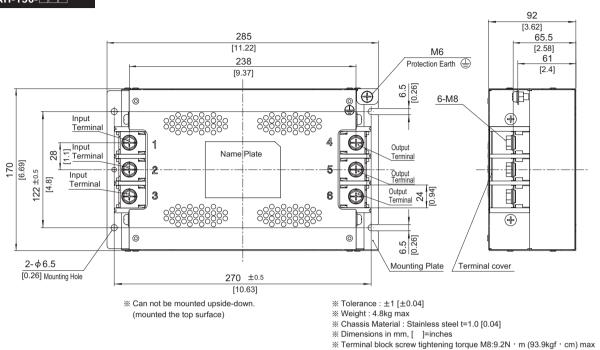
**TA-8** 

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



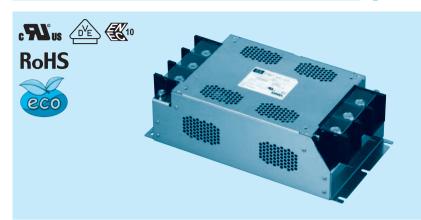
### External view

#### TAC-150-□□□ TAH-150-□□□



Protection Earth screw tightening torque M6:5.8N · m (59.2kgf · cm) max

-200 -223



- ①Model Name ②Rated Current
- ③Line 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)
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
- 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)

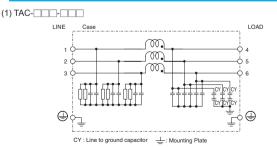
- · Three phase rated voltage 500 VAC (voltage range:528V max)
- · Selectable leakage current value

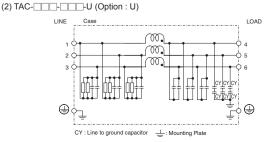
### **Specifications**

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 = 10	00mA), 1minute at room temperat	ure and humidity	
4	Isolation Resistance (Terminal-Mounting Plate)	500 VDC 100M $\Omega$ min at room	500 VDC 100M $\Omega$ 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℃ (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)	190×110×360 mm [7.48×4.33×14.17 inches] (W×H×D)			
15	Weight	8.0kg max			

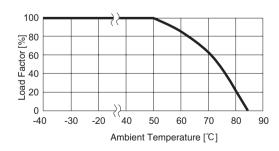
<sup>\*1</sup> Only "TAC-\_\_\_-U", Three Phase 250 (275 max)

#### **Circuit Diagram**



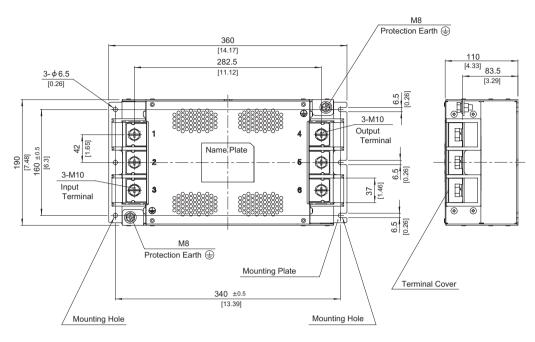


## **Derating Curve**



\*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  $\cdot$  m (93.9kgf  $\cdot$  cm) max