

# 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.

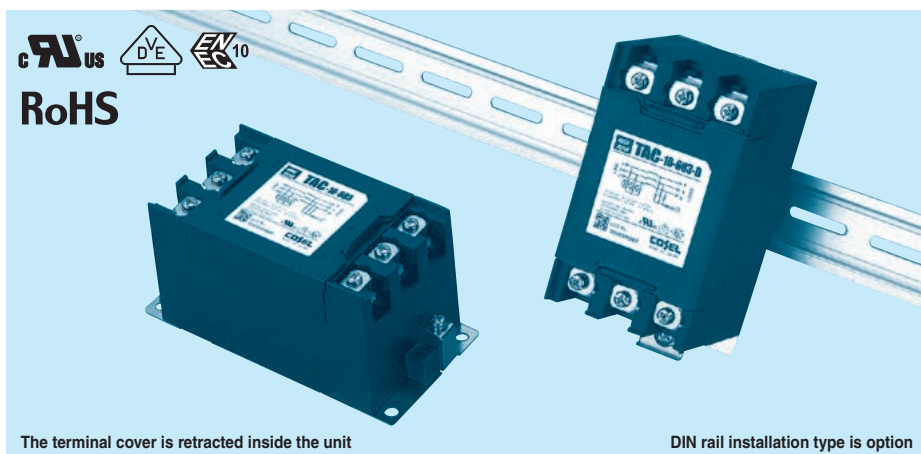
table 1.1 Line to ground capacitor code

| Code | Leakage Current<br>(Input 250/500V 60Hz) | Line to ground<br>capacitor<br>(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.

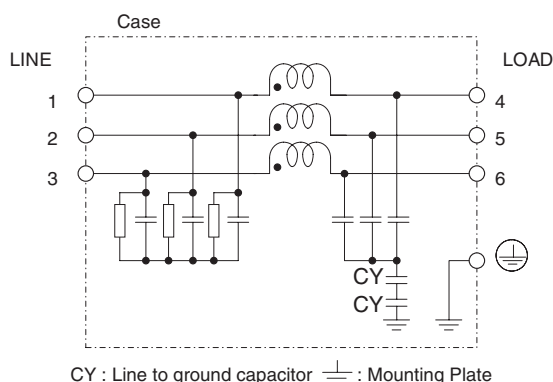
■ TAC: High-attenuation type from 150kHz to 1MHz

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

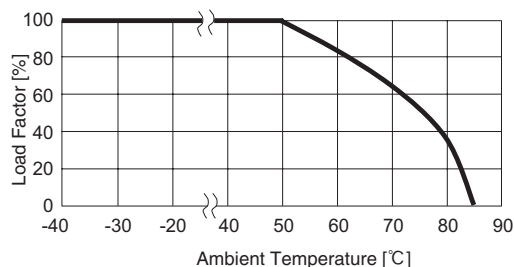
## Specifications

| 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



## Derating Curve

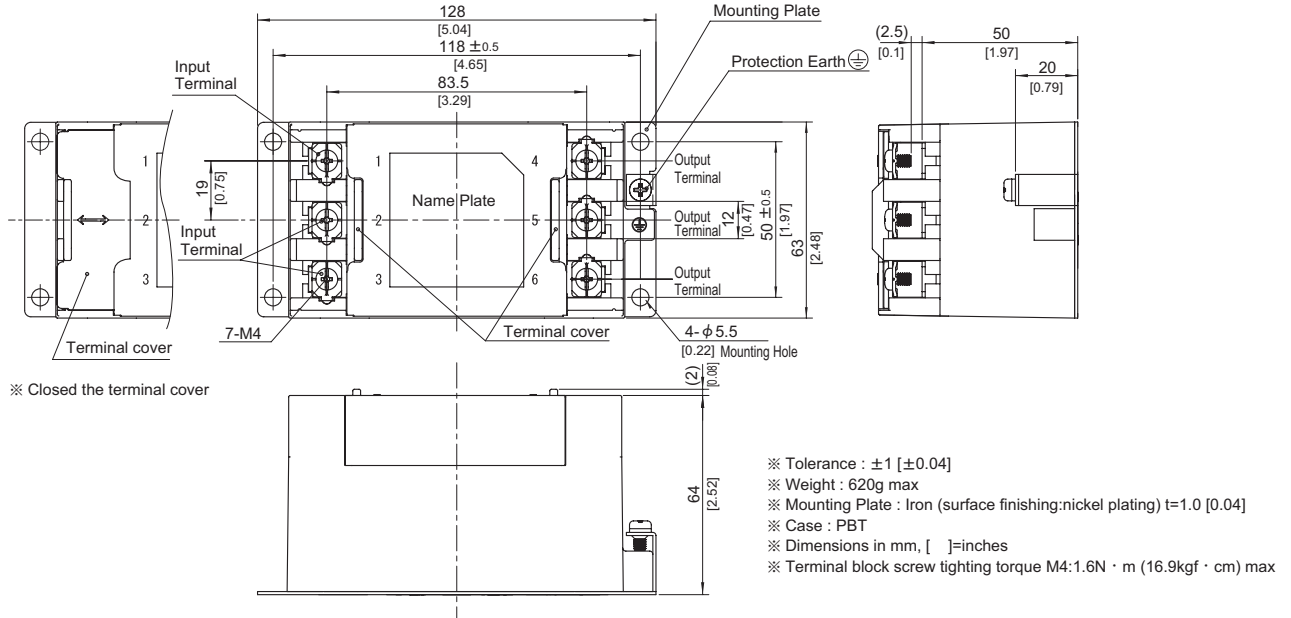


## External view

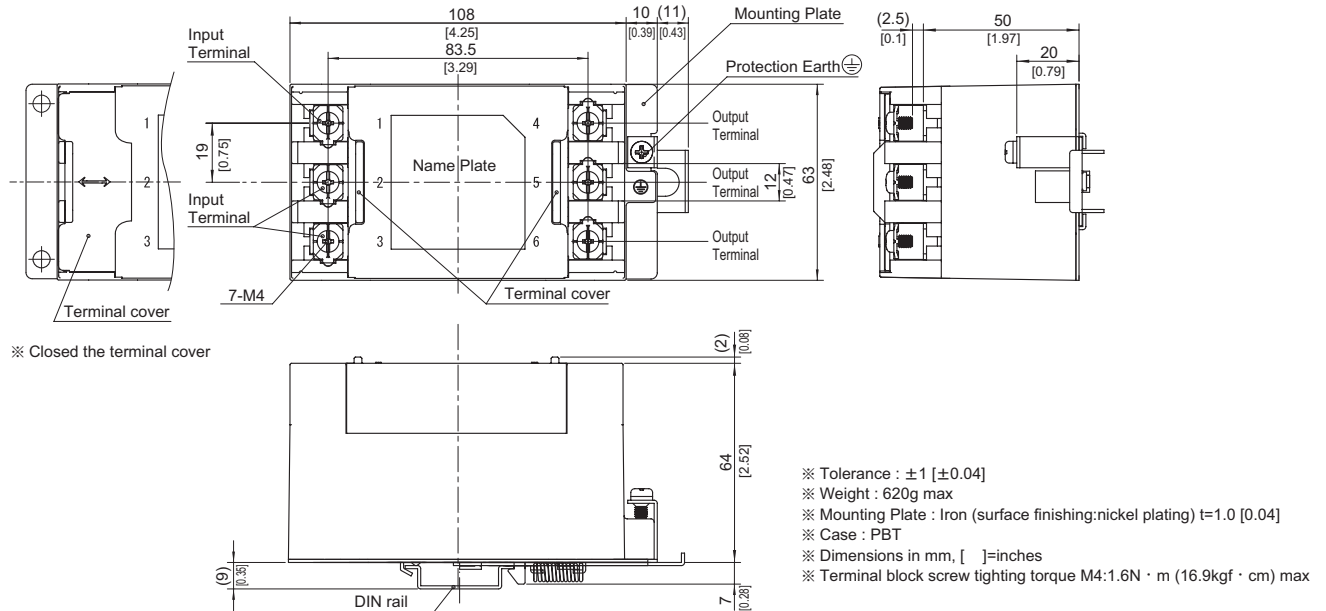
This product is shipped in the following condition, because it is equipped with push-down terminals.

- 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.

