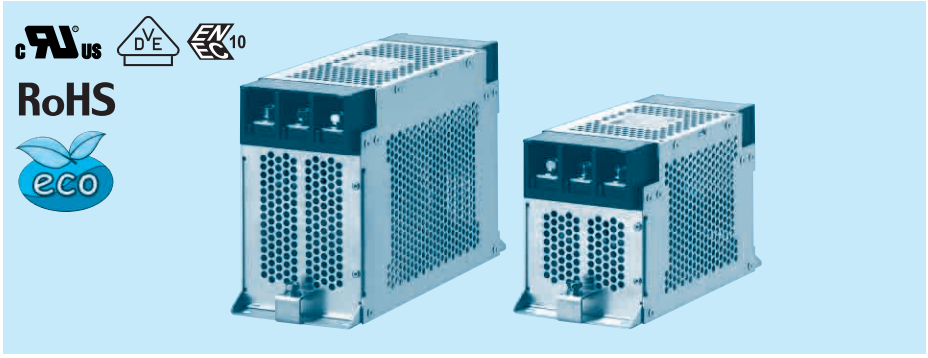
COSEL Three phase input type(1-stage filter)

FTA series(80,100,125,150A)

Ordering information

FTA -80 -683 -□

① ② ③ ④



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) (155,335only 250/400V 60Hz)	Line to ground capacitor (nominal value)
223	1.0mA/2.0mA max	22,000pF
683	2.5mA/5.0mA max	68,000pF
104	3.5mA/7.0mA max	100,000pF
155	160mA/250mA max	1.5μF
335	320mA/500mA max	3.3μF

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

④Option
H:Ultra high attenuation type
"155","335" is not applied.
S:Hexagon socket head cap screw
(Standard type is Hexagon head screw)
U:Improve differential mode attenuation
(Rated voltage 250V)
G:With switch of line to ground capacitor
Only "155","335" is applied.

＊"155" is Leakage current 160mA/250mA max when the switch state is ON (switched to "ｌ"). 50μA/80μA max when the switch state is OFF (switched to "O").
"335" is Leakage current 320mA/500mA max when the switch state is ON (switched to "ｌ"). 50μA/80μA max when the switch state is OFF (switched to "O").

Features of FTA series

Book type (Space-saving type)

- 1-stage filterGeneral-purpose High-attenuation (150kHz - 1MHz)
- Selectable leakage current value, Ultra high attenuation type "155","335" for EU

(Wye type with neutral earth system), With switch of line to ground capacitor "-G"

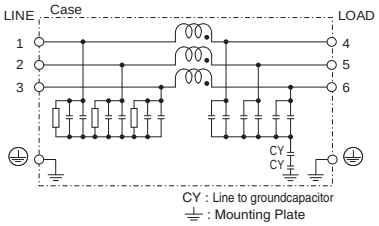
Specifications

No.	Items	FTA-80-683	FTA-100-683	FTA-125-683	FTA-150-683
1	Rated Voltage[V]	AC Three Phase 500 (voltage range:528 max) ＊1 ＊2			
2	Rated Current[A]	80	100	125	150
3	Test Voltage (Terminal-Mounting Plate)	2,500 VAC (Cutoff Current = 100mA), 1minute at room temperature and humidity ＊3			
4	Isolation Resistance (Terminal-Mounting Plate)	500 VDC 100MΩ min at room temperature and humidity ＊4			
5	Leakage current 250/500V 60Hz	2.5mA/5.0mA max			
6	DC registance	5mΩ max	4mΩ max	3mΩ 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	Case size (without projection)	100×130×210 mm (W×H×D) (Option: -G refer to external view)			100×170×260 mm(W×H×D) (Option: -G refer to external view)
		[3.94×5.12×8.27 inches]			[3.94×6.69×10.24 inches]
15	Weight	3.1kg max			4.2kg max

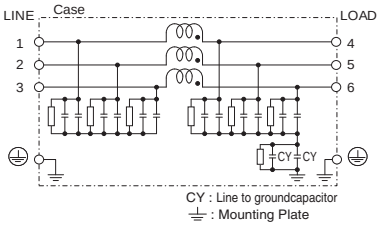
＊1 Only capacitor code and option "155","335", Three Phase Δ-connection:400 (440 max), Wye-connection:500(528 max)
＊2 Only option "U", Three Phase 250(275 max)
＊3 Only capacitor code and option "155","335", 2,800VDC (Cutoff Current = 10mA), 1minute at room temperature and humidity.
＊4 Only capacitor code and option "155","335", insulation resistance specification is deleted.

Circuit Diagram

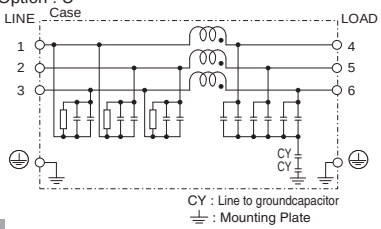
(1) Line to ground capacitor code : 223, 683, 104



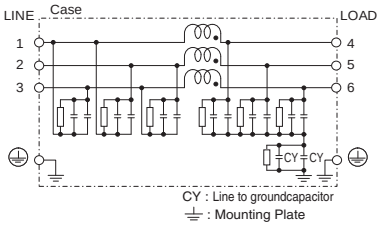
(2) Line to ground capacitor code : 155, 335



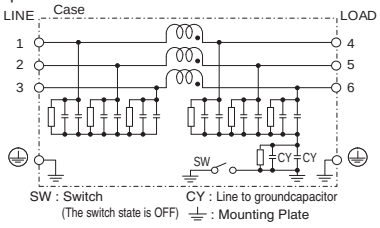
(3) Line to ground capacitor code : 223, 683, 104
Option : U



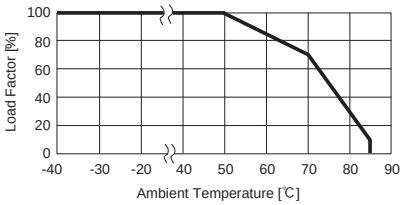
(4) Line to ground capacitor code : 155, 335
Option : U



(5) Line to ground capacitor code : 155, 335
Option : G



Derating Curve

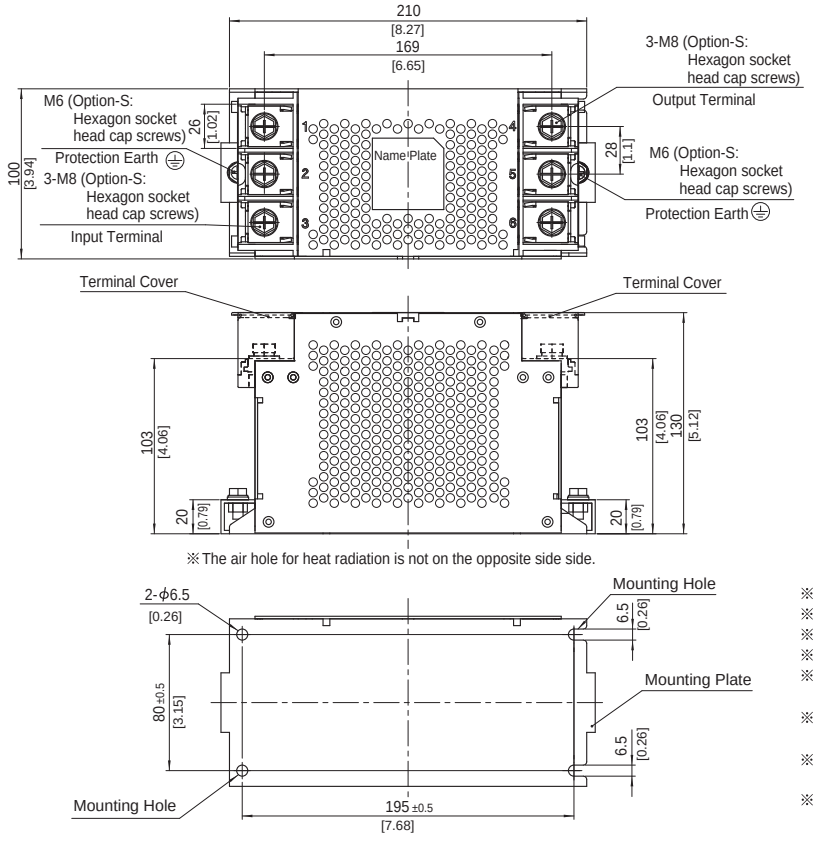


＊Keep free ventilation holes for cooling.

EMI/EMC Filter

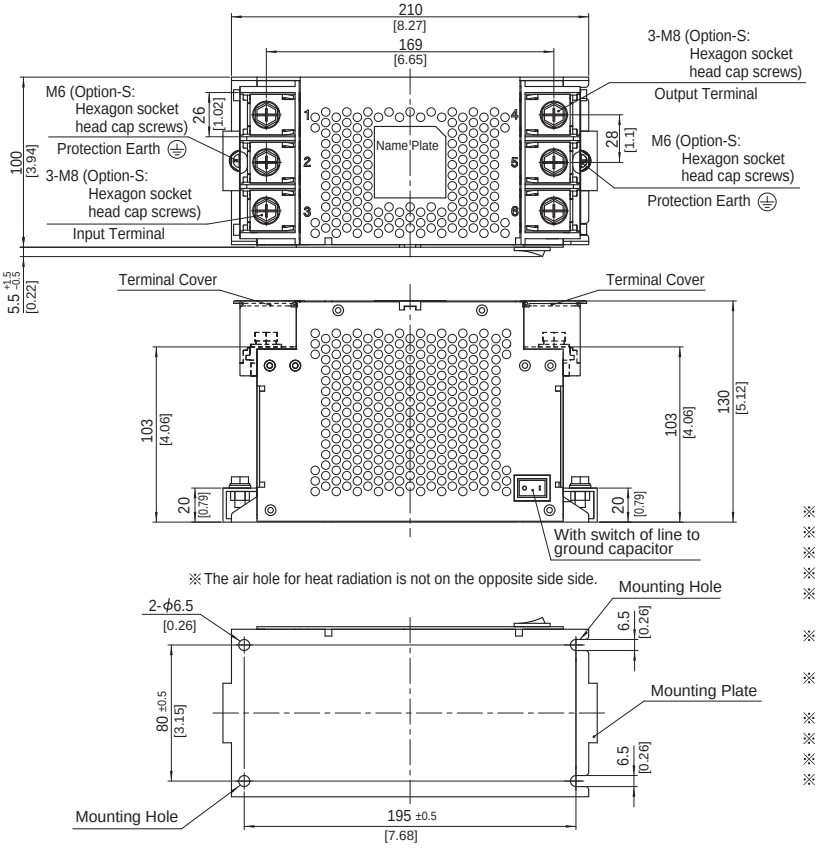
External view

FTA-80 / FTA-100 / FTA-125



※ Tolerance : ±1 [±0.04]
※ Weight : 3.1kg max
※ Mounting Plate : Aluminum t=2.0 [0.08]
※ Dimensions in mm, [ ]=inches
※ Terminal block screw tightening torque
M8 : 9.2N • m(93.9kgf • cm)max
※ Protection Earth (PE) screw tightening torque
M6 : 5.8N • m(59.2kgf • cm)max
※ Can not be mounted upside-down
(mounted the top surface)
※ Keep free ventilation holes for cooling

FTA-80 / FTA-100 / FTA-125 with switch of line to ground capacitor

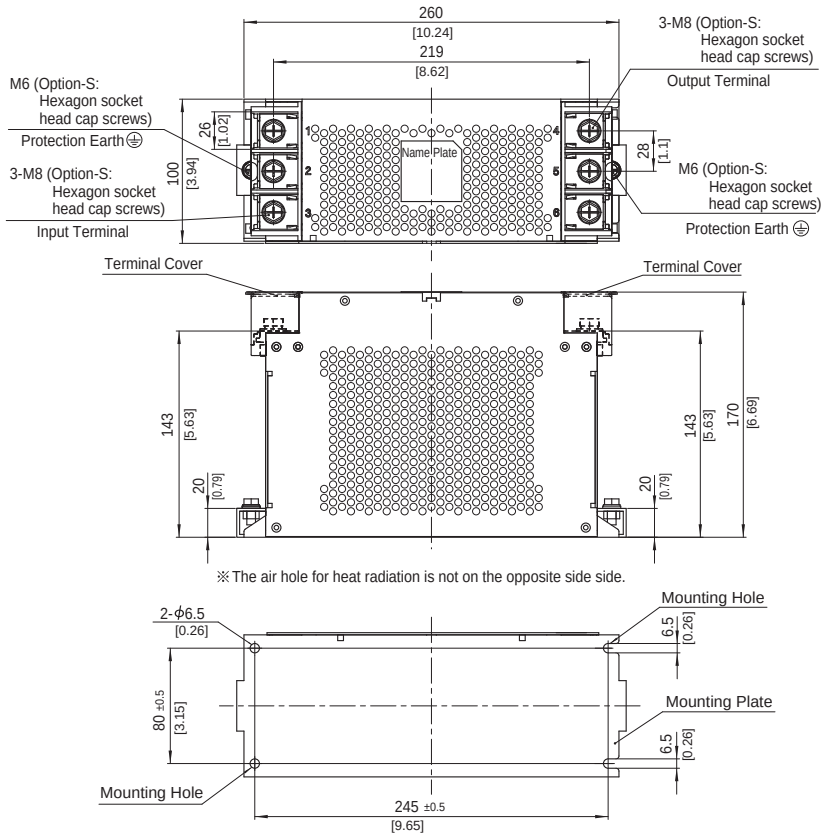


※ Tolerance : ±1 [±0.04]
※ Weight : 3.1kg max
※ Mounting Plate : Aluminum t=2.0 [0.08]
※ Dimensions in mm, [ ]=inches
※ Terminal block screw tightening torque
M8 : 9.2N • m(93.9kgf • cm)max
※ Protection Earth (PE) screw tightening torque
M6 : 5.8N • m(59.2kgf • cm)max
※ Can not be mounted upside-down
(mounted the top surface)
※ Keep free ventilation holes for cooling
※ The switch state is OFF at shipping
※ Switch status ON : " | ", OFF : "○"
※ ⚠ HIGH LEAKAGE CURRENT
first connect to erath

EMI/EMC Filter

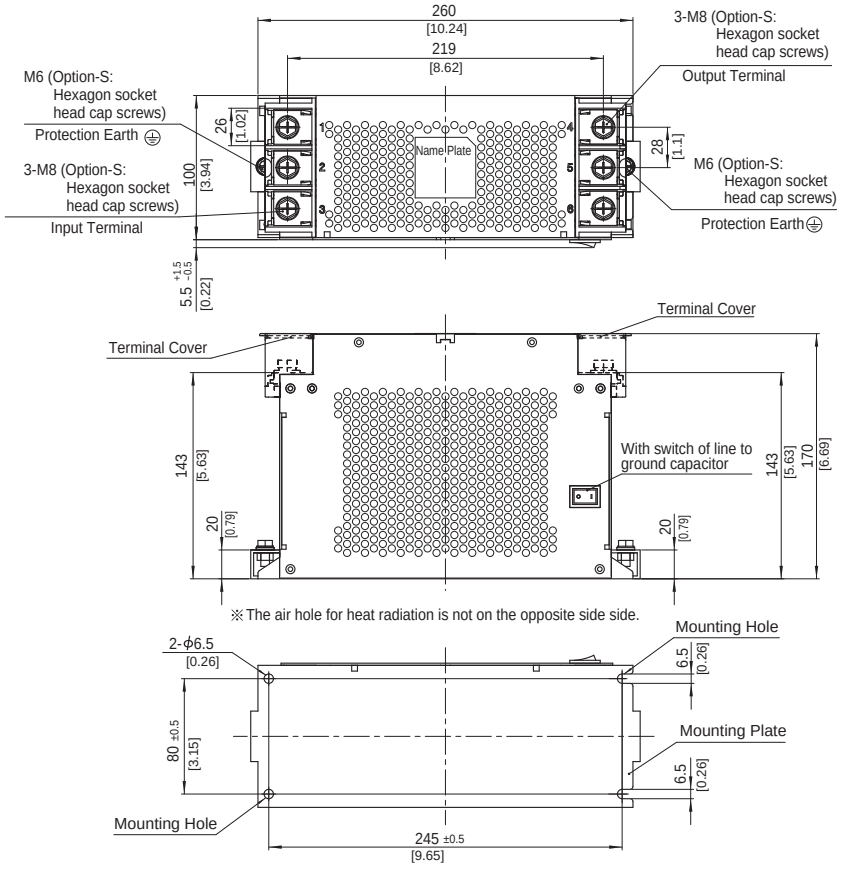
External view

FTA-150



※ Tolerance : ±1 [±0.04]
※ Weight : 4.2kg max
※ Mounting Plate : Aluminum t=2.0 [0.08]
※ Dimensions in mm, [ ]=inches
※ Terminal block screw tightening torque
M8 : 9.2N • m(93.9kgf • cm)max
※ Protection Earth (PE) screw tightening torque
M6 : 5.8N • m(59.2kgf • cm)max
※ Can not be mounted upside-down
(mounted the top surface)
※ Keep free ventilation holes for cooling

FTA-150 with switch of line to ground capacitor ON/OFF



※ Tolerance : ±1 [±0.04]
※ Weight : 4.2kg max
※ Mounting Plate : Aluminum t=2.0 [0.08]
※ Dimensions in mm, [ ]=inches
※ Terminal block screw tightening torque
M8 : 9.2N • m(93.9kgf • cm)max
※ Protection Earth (PE) screw tightening torque
M6 : 5.8N • m(59.2kgf • cm)max
※ Can not be mounted upside-down
(mounted the top surface)
※ Keep free ventilation holes for cooling
※ The switch state is OFF at shipping
※ Switch status ON : " | ", OFF : "○"
※ ⚠ HIGH LEAKAGE CURRENT
first connect to erath

EMI/EMC Filter

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