Three phase input type(1-stage filter)

Ordering information





Features of FTA series

Book type (Space-saving type)

- 1-stage filter General-purpose High-attenuation (150kHz 1MHz) · Selectable leakage current value, Ultra high attenuation type "335" for
- EU(Wye type with neutral earth system), With switch of line to ground capacitor "-G"

-50 -683 FTA 2



③Line to ground capacitor code:See table 1.1.

table1.1 Line to ground capacitor code

Code	Leakage Current (Input 250/500V 60Hz) (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
335	160mA/250mA max	3.3µF

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

- H:Ultra high attenuation type "335" is not applied.
- U:Improve differential mode attenuation (Rated voltage 250V) G:With switch of line to ground capacitor
- Only "335" is applied. * Leakage current 160mA/250mA max when
- the switch state is ON (switched to " 10µA/16µA max when the switch state is OFF (switched to "O").

Specifications

COSEL

No.	Items	FTA-40-683	FTA-50-683	FTA-60-683	
1	Rated Voltage[V]	AC Three Phase 500 (voltage range:528 max) 50/60Hz *1 *2			
2	Rated Current[A]	40	50	60	
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 100M Ω min at room temperature and humidity *4			
5	Leakage current 250/500V 60Hz	2.5mA/5.0mA max			
6	DC resistance	8.5m Ω max	6mΩ max	$4.5m\Omega$ 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°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)	65×84×153 mm (W×H×D) (Option: -G refer to external view)			
		[2.56×3.31×6.02 inches] (W×H×D)			
15	Weight	1.2kg max			

*1 Only capacitor code "335", Three Phase △-connection : 400 (440 max), Wye-connection : 500 (528 max)

*2 Only "FTA- _____ ___ U", Three Phase 250 (275 max)

*3 Only capacitor code "335", 2,800VDC (Cutoff Current = 10mA), 1 minute at room temperature and humidity.

±CΥ

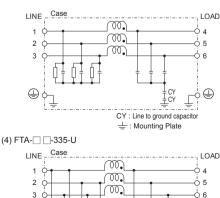
CY : Line to ground capacitor

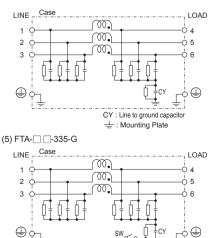
- : Mounting Plate

*4 Only capacitor code "335", Isolation resistance specification is deleted.

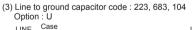
Circuit Diagram

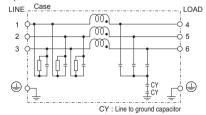






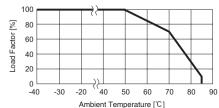
(2) Line to ground capacitor code : 335







Derating Curve



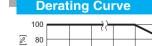


(The switch state is OFF) = : Mounting Plate

SW : Switch

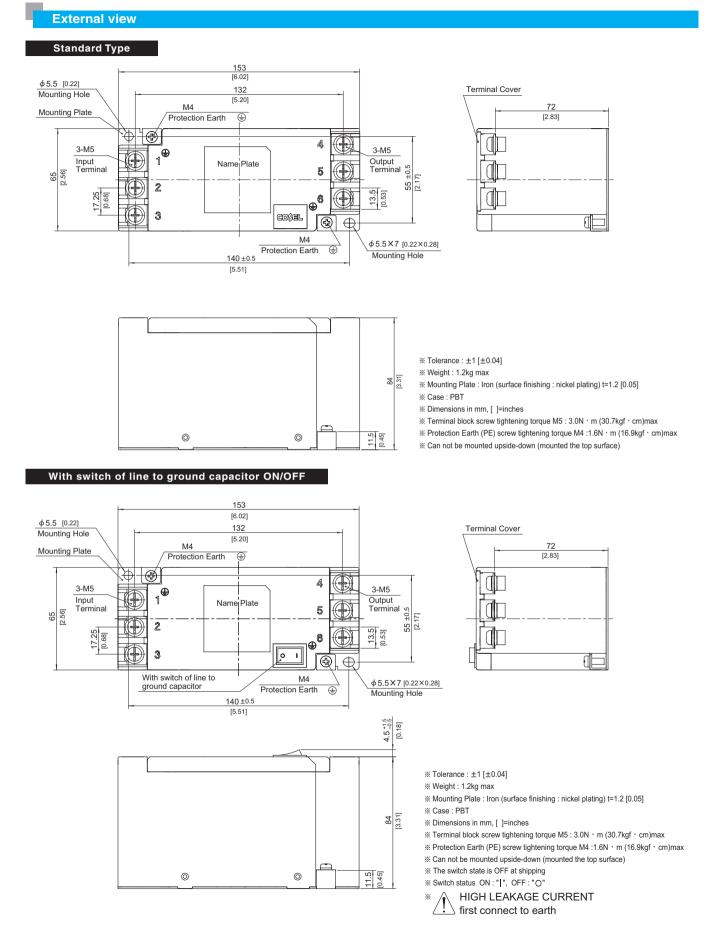
CY

CY : Line to ground capacitor



⁽⁴⁾ Option

FTA series (40,50,60A) | **COŞEL**



COSEL

Three phase input type(1-stage filter)

Ordering information

2

FTA

-80

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



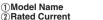
Features of FTA series

Book type (Space-saving type)

- 1-stage filter General-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



-683

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	1.5 <i>µ</i> F	
335	320mA/500mA max	3.3µF	

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

- H:Ultra high attenuation type
- "155", "335" is not applied.
- S:Hexadon 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 "

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 " | 50µA/80µA max when the switch state is OFF (switched to "O").

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) 50/60Hz *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 100M Ω min at room temperature and humidity *4				
5	Leakage current 250/500V 60Hz	2.5mA/5.0mA max				
6	DC resistance	$5m\Omega$ max	$4m\Omega$ max	$3m\Omega$ max	$3m\Omega$ 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/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		100×130×210 mm (W			100×170×260 mm(W×H×D)	
	Case size (without projection)	(Option: -G refer to external view)		(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)

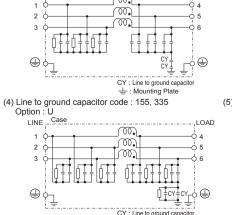
*3 Only capacitor code and option "155", "335", 2.800VDC (Cutoff Current = 10mA), 1minute at room temperature and humidity

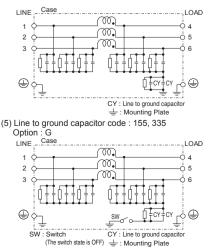
*4 Only capacitor code and option "155", "335", Isolation resistance specification is deleted.

Circuit Diagram

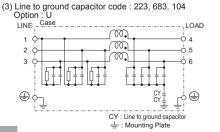


≟ : Mounting Plate

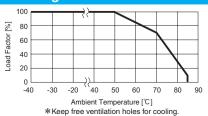




July 08, 2020



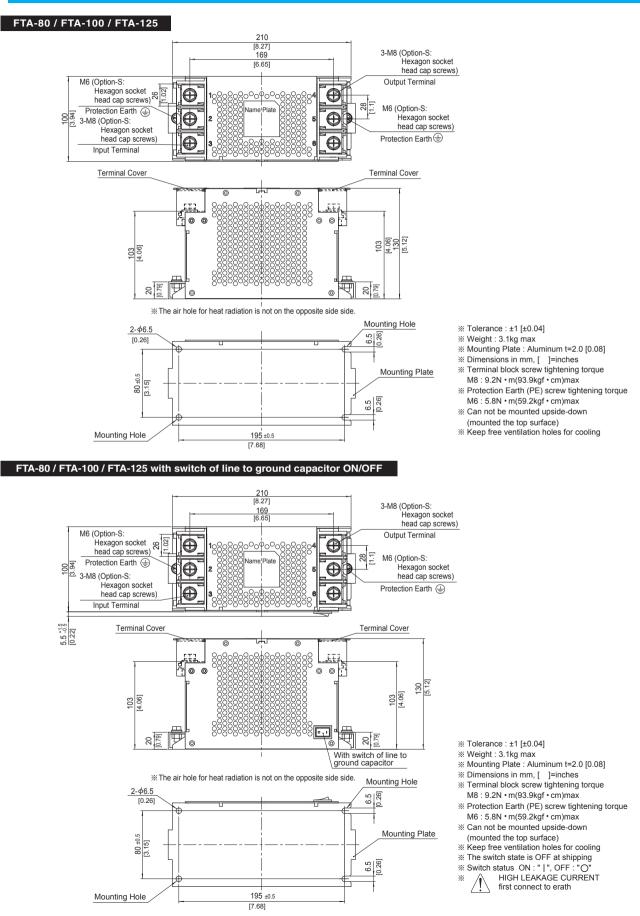
Derating Curve



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

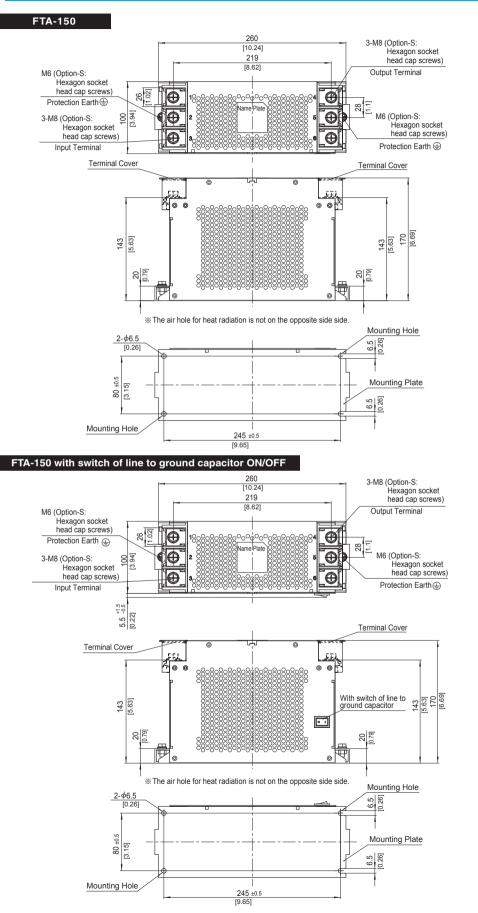


External view



COȘEL | FTA series (80,100,125,150A)

External view



- % 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

※ 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 : "O"
 HIGH LEAKAGE CURRENT
 first connect to erath

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cosel:

FTA-100-104FTA-100-104-HFTA-100-104-HSFTA-100-104-SFTA-100-155FTA-80-683-SFTA-80-223-HFTA-80-223-H80-223-HSFTA-80-223-SFTA-80-683FTA-80-683-HFTA-80-683-HSFTA-80-104-SFTA-80-155FTA-80-155-HFTA-80-155-HSFTA-80-155-SFTA-80-223FTA-150-683-HFTA-150-683-HSFTA-150-683-SFTA-80-104FTA-80-104104-HFTA-80-104-HSFTA-150-155-SFTA-150-223FTA-150-223-HFTA-150-223-HSFTA-150-223-SFTA-150-683-S683FTA-150-104-HFTA-150-104-HSFTA-150-104-SFTA-150-155FTA-150-155-HSFTA-100-223-SFTA-100-683FTA-100-683-HFTA-100-683-HSFTA-100-683-SFTA-100-155-HFTA-100-155-HHSFTA-100-155-SFTA-100-223FTA-100-223-HFTA-40-683FTA-50-683