COSEL Three phase input type(2-stage filter)

FSB series(10,20,30A)

Ordering information

FSB -30 -324 -□

① ② ③ ④

The terminal cover is retracted inside the unit

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

table1.1 Line to ground capacitor code

Code	Leakage Current ＊1 Upper row : Δ-connection Lower row : Y-connection	Line to ground capacitor CY1 (nominal value)	Line to ground capacitor CY2 (nominal value)
203	1.0mA/2.0mA max 0.1mA/0.2mA max	0.01μF	0.01μF
573 ＊2	2.5mA max/Not applicable 0.35mA max/Not applicable	0.01μF	0.047μF
693	2.5mA/5.0mA max 0.35mA/0.7mA max	0.022μF	0.047μF
104	3.5mA/7.0mA max 0.5mA/1.0mA max	0.033μF	0.068μF
254 ＊2	12mA max/Not applicable 1.5mA max/Not applicable	0.033μF	0.22μF
324	12mA/24mA max 1.5mA/3.0mA max	0.1μF	0.22μF
335 ＊2	160mA max/Not applicable 20mA max/Not applicable	0.033μF	3.3μF
355	180mA/270mA max 25mA/50mA max	0.22μF	3.3μF

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

＊1 Input 250/500V 60Hz (Only Δ-connection of "355" is 250/400V 60Hz)
＊2 Only "U" type is applied.

④Option
H :Ultra high-attenuation type
U :Improve differential mode attenuation (Rated voltage 250V)
Only "573", "254", "335" is applied.

Features of FSB series

EMI/EMC Filter for motor drive system (AC servo)

- Improve saturation resistance (There is such as performance improvement type "-254-HU")
- Book type (Space-saving type)
- Quick and easy push-down terminal
  Just connect the wires,push-down and tighten the screws with a screwdriver

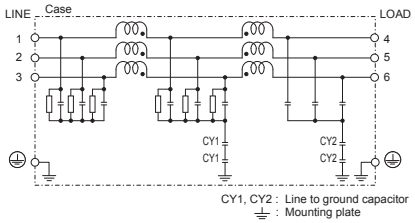
Specifications

No.	Items	FSB-10-324	FSB-20-324	FSB-30-324
1	Rated Voltage[V]	AC Three Phase 500 (voltage range:528 max) 50/60Hz ＊3 ＊4		
2	Rated Current[A]	10	20	30
3	Test Voltage (Terminal-Mounting Plate)	2,800 VDC (Cutoff Current = 10mA), 1minute at room temperature and humidity ＊5		
4	Isolation Resistance (Terminal-Mounting Plate)	500 VDC 100MΩ min at room temperature and humidity ＊6		
5	Leakage current 250/500V 60Hz	12mA/24mA max		
6	DC resistance	100mΩ max	38mΩ max	20mΩ 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 Teil 3-1, ENEC		
14	Case size (without projection)	66×100×240 mm (W×H×D)		
		[2.60×3.94×9.45 inches] (W×H×D)		
15	Weight	1.8kg max		

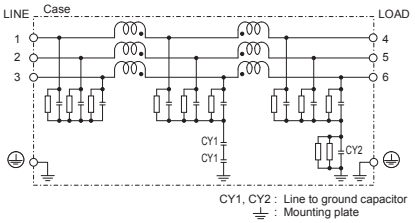
＊3 Only capacitor code "355",Three Phase Δ-connection : 400 (440 max), Y-connection : 500 (528 max)
＊4 Only "FSB-□□-□□□-U", Three Phase 250 (275 max)
＊5 Only capacitor code "203", "573", "693", "104", 2,500VAC (Cutoff Current = 100mA), 1minute at room temperature and humidity.
＊6 Only capacitor code "335", "355", Isolation resistance specification is deleted.

Circuit Diagram

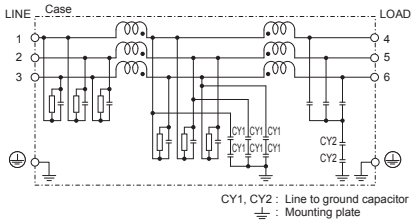
(1) Line to ground capacitor code : 203, 693, 104, 324



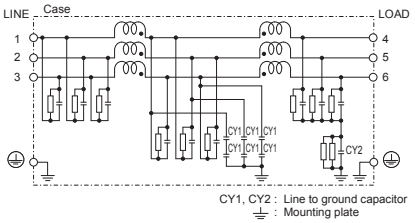
(2) Line to ground capacitor code : 355



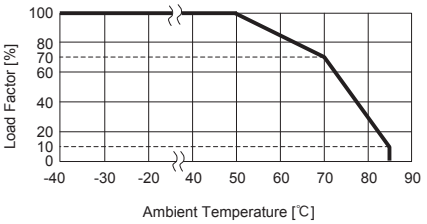
(3) Line to ground capacitor code : 573, 254
Option : U



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



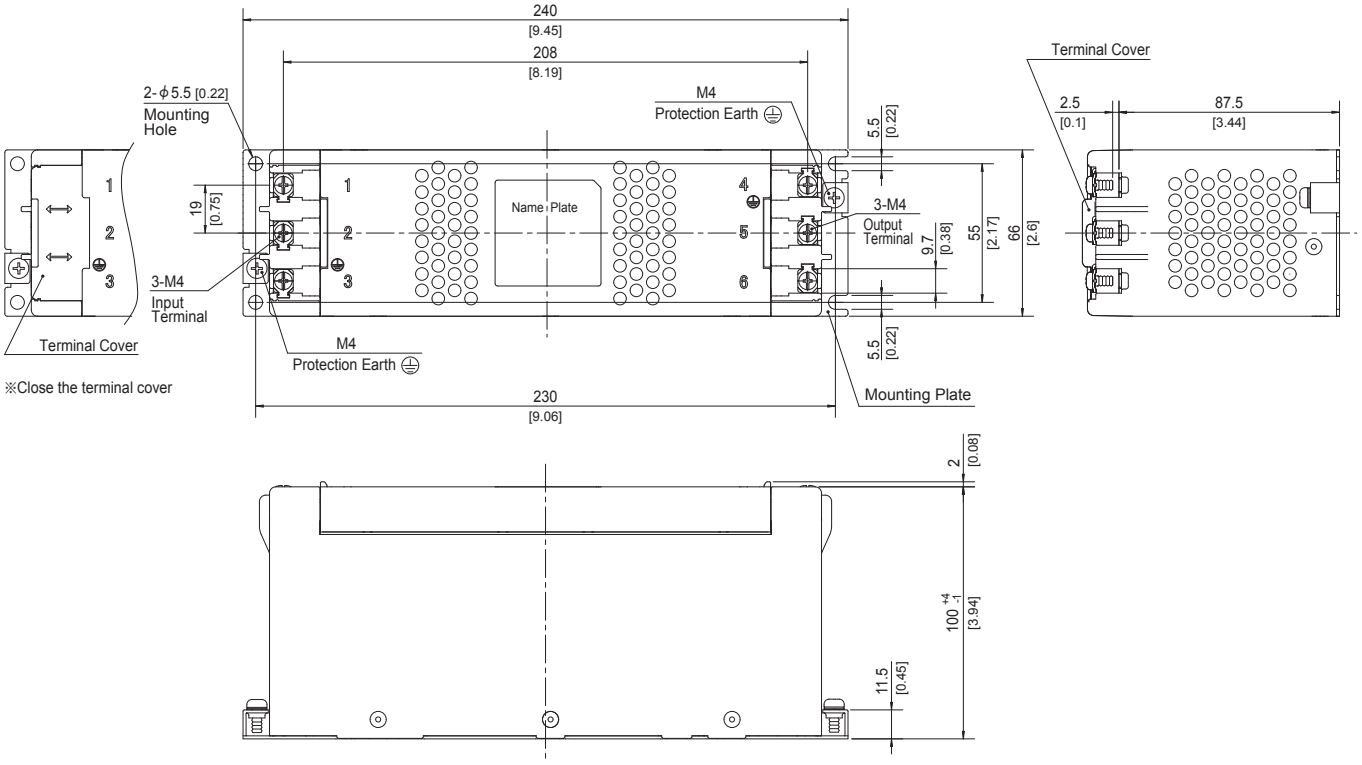
Derating Curve



＊Keep free ventilation holes for cooling.

External view

As this product is adopted push-down type terminal block, this appearance is as follows.
①The terminal cover is retracted inside the unit.
②The screws for connecting the terminals are held in the up right position.



※ Tolerance : ±1 [±0.04]
※ Weight : 1.8kg max
※ Mounting Plate : Hot-dip Galvanized Steel board t=1.2 [0.05]
※ Case : PBT
※ Dimensions in mm, [ ]=inches
※ Terminal block screw tightening torque M4 : 1.6N·m (16.9kgf·cm)max
※ Can not be mounted upside-down (mounted the top surface)
※ Keep free ventilation holes for cooling

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Cosel:

FSB-30-104 FSB-20-203 FSB-10-693 FSB-20-104 FSB-10-203 FSB-10-355 FSB-10-254-HU FSB-20-254-HU FSB-30-573-HU FSB-20-254-U FSB-20-203-H FSB-20-324 FSB-10-573-HU FSB-10-335-HU FSB-30-573-U FSB-30-335-HU FSB-20-324-H FSB-30-254-U FSB-20-573-U FSB-10-324-H FSB-30-335-U FSB-30-203-H FSB-30-104-H FSB-20-335-HU FSB-10-693-H FSB-30-254-HU FSB-30-355-H FSB-10-324 FSB-10-104 FSB-20-104-H FSB-30-324-H FSB-10-203-H FSB-10-104-H FSB-20-693-H FSB-30-693-H FSB-10-254-U FSB-20-335-U FSB-10-573-U FSB-30-203 FSB-30-324 FSB-20-355-H FSB-10-355-H FSB-30-355 FSB-20-693 FSB-20-355 FSB-30-693 FSB-20-573-HU FSB-10-335-U

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