COSEL

Three phase input type(2-stage filter)

Ordering information

FSB

FSB series(10,20,30A)



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

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

table1.1 Line to ground capacitor code

-30 -324

abie 1.1 Eine to ground capacitor code					
Code	Leakage Current * 1 Upper row : △-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	0.01 <i>µ</i> F	0.01 <i>µ</i> F		
573 <mark>*</mark> 2	2.5mA max/Not applicable 0.35mA max/Not applicable	0.01 <i>µ</i> F	0.047µF		
693	2.5mA/5.0mA max 0.35mA/0.7mA max	0.022 <i>µ</i> F	0.047µF		
104	3.5mA/7.0mA max 0.5mA/1.0mA max	0.033 <i>µ</i> F	0.068 <i>µ</i> F		
254 *2	12mA max/Not applicable 1.5mA max/Not applicable	0.033 <i>µ</i> F	0.22 <i>µ</i> F		
324	12mA/24mA max 1.5mA/3.0mA max	0.1 <i>µ</i> F	0.22 <i>µ</i> F		
335 <mark>*</mark> 2	160mA max/Not applicable 20mA max/Not applicable	0.033 <i>µ</i> F	3.3µF		
355	180mA/270mA max 25mA/50mA max	0.22 <i>µ</i> F	3.3µF		

- * When the line to ground capacitor code is different, the attenuation characteristic is different.
- *1 Input 250/500V 60Hz (Only \triangle -connection of "355" is 250/400V 60Hz) *2 Only "U" type is applied.
- ④ Option
 - H:Ultra high-attenuation type U:Improve differential mode attenuation (Rated voltage 250V) Only "573", "254", "335" is applied.

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 100M Ω min at room temperature and humidity *6				
5	Leakage current 250/500V 60Hz 12mA/24mA max					
6	DC resistance	100m Ω max	38mΩ max	$20m\Omega$ max		
7	Safety agency approval temperatures	-25 to +85°C (Refer to Derating Curve)				
8	Operating temperature	-40 to +85°C (Refer to Derating Curve)				
9	Operating humidity	20 to 95%RH (Non condensing	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 Teil 3-1, ENEC				
14	Case size (without projection)	66×100×240 mm (W×H×D)				
	Case size (without projection)	[2.60×3.94×9.45 inches] (W×H×D)				
15	Weight	1.8kg max				

*3 Only capacitor code "355", Three Phase △-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













Derating Curve



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FSB series(10,20,30A) **COSEL**

External view

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

()The terminal cover is retracted inside the unit.

(2) The 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)