

ESC series

ESC -10 -472 -□

① ② ③ ④

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

table 1.1 Line to ground capacitor code

Code	Leakage Current (Input 125/250V 60Hz)	Line to ground capacitor (nominal value)
681	75.5 μ A/150 μ A max	680pF
102	0.13mA/0.25mA max	1000pF
222	0.25mA/0.5 mA max	2200pF
332	0.38mA/0.75mA max	3300pF
472	0.5 mA/1.0 mA max	4700pF

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

- ④ Options
- D: DIN rail installation type

* The dimensions change when the option is set. Refer to External view.



Features of ESC series

Small, common mode EMI/EMC Filters in 150kHz to 1MHz(1-Stage filter)

- Small EMI/EMC Filters that change input-output terminal and protection earth terminal of EA series into screwless terminal type
- Single Phase 250VAC
- Torque management is unnecessary with screwless

Specifications

No.	Items	ESC-03-472	ESC-06-472	ESC-10-472	ESC-16-472
1	Rated Voltage[V]	AC 1 ϕ 250 / DC250			
2	Rated Current[A]	3	6	10	16
3	Test Voltage (Terminal-Mounting Plate)	2,500 VAC (Cutoff Current = 20mA), 1minute at room temperature and humidity			
4	Isolation Resistance (Terminal-Mounting Plate)	500 VDC 500M Ω min at room temperature and humidity			
5	Leakage current 125/250V 60Hz	0.5mA/1.0mA max			
6	DC resistance	180m Ω max	110m Ω max	40m Ω max	20m Ω max
7	Safety agency approval temperatures	-25 to +85 $^{\circ}$ C (Refer to Derating Curve)			
8	Operating temperature	-40 to +85 $^{\circ}$ C (Refer to Derating Curve)			
9	Operating humidity	20 to 95%RH (Non condensing)			
10	Storage temperature/humidity	-40 to +85 $^{\circ}$ 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 (At only AC input)			
14	Case size (without projection) /Weight	39 X 30 X 85 mm [1.54 X 1.18 X 3.35 inches] (W X H X D) /170g max (Option : -D refer to external view)			

Circuit Diagram



Derating Curve



External view

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.



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Cosel:

<u>ESC-03-102</u>	<u>ESC-03-102-D</u>	<u>ESC-03-222</u>	<u>ESC-03-222-D</u>	<u>ESC-03-332</u>	<u>ESC-03-332-D</u>	<u>ESC-16-472</u>	<u>ESC-16-472-D</u>
<u>ESC-16-681</u>	<u>ESC-16-681-D</u>	<u>ESC-16-102</u>	<u>ESC-16-102-D</u>	<u>ESC-16-222</u>	<u>ESC-16-222-D</u>	<u>ESC-16-332</u>	<u>ESC-16-332-D</u>
<u>ESC-10-332</u>	<u>ESC-10-332-D</u>	<u>ESC-10-472</u>	<u>ESC-10-472-D</u>	<u>ESC-10-681</u>	<u>ESC-10-681-D</u>	<u>ESC-06-681</u>	<u>ESC-06-681-D</u>
<u>ESC-10-102</u>	<u>ESC-10-102-D</u>	<u>ESC-10-222</u>	<u>ESC-10-222-D</u>	<u>ESC-06-222</u>	<u>ESC-06-222-D</u>	<u>ESC-06-332</u>	<u>ESC-06-332-D</u>
<u>ESC-06-472</u>	<u>ESC-06-472-D</u>	<u>ESC-03-472</u>	<u>ESC-03-472-D</u>	<u>ESC-03-681</u>	<u>ESC-03-681-D</u>	<u>ESC-06-102</u>	<u>ESC-06-102-D</u>