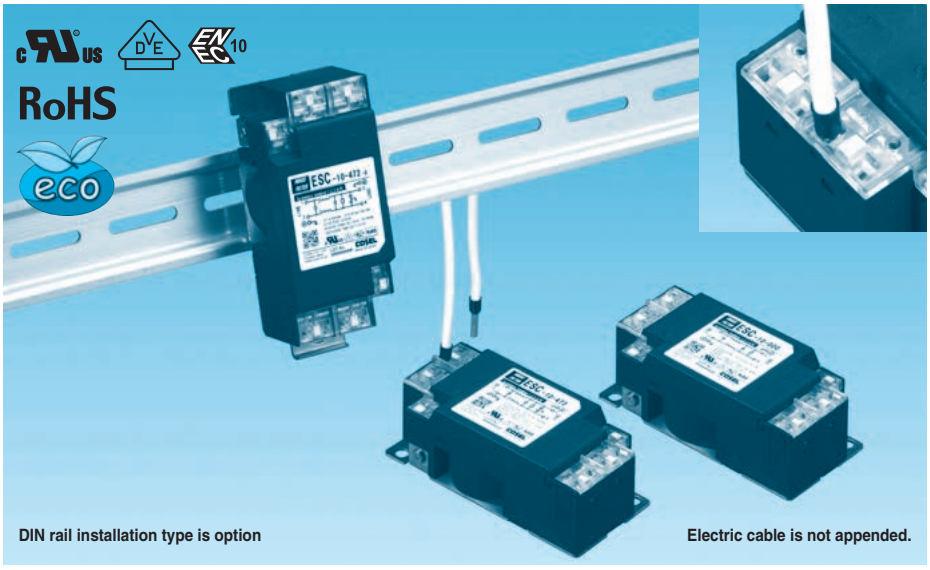
COSEL Small, Single phase input type: Screwless terminal (1-Stage filter)

ESC/ESM/ESP series

Ordering information

ESC -10 -472 -□

① ② ③ ④



DIN rail installation type is option

Electric cable is not appended.

①Series Name
②Rated Current
③Line to ground capacitor code:Refer to table 1.1.

table1.1 Line to ground capacitor code

Code	ESC	ESM	ESP	Leakage Current (Input 125/250V 60Hz)	Line to ground capacitor (nominal value)
000		●	●	5 μA / 10μA max	Not Provided
101		●	●	12.5 μA / 25μA max	100pF
221		●	●	25 μA / 50μA max	220pF
331		●	●	37.5 μA / 75μA max	330pF
471		●	●	50 μA / 100μA max	470pF
681	●		●	75.5 μA / 150μA max	680pF
102	●		●	0.13 mA /0.25mA max	1,000pF
222	●		●	0.25 mA /0.5 mA max	2,200pF
332	●		●	0.38 mA /0.75mA max	3,300pF
472	●		●	0.5 mA /1.0 mA max	4,700pF

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

④Option
D:DIN rail installation type

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

Features of ESC/ESM/ESP series

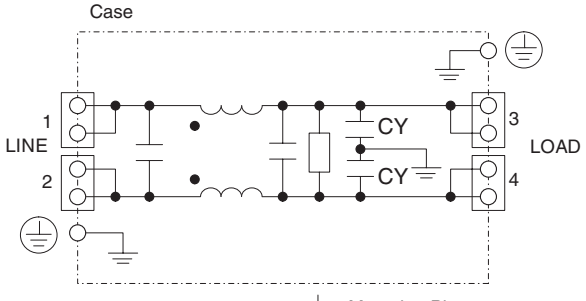
- Single Phase 250VAC (1-Stage filter)
- Small EMI/EMC Filters that change input-output terminal and protection earth terminal of EA series into screwless terminal type
- Torque management is unnecessary with screwless

■ ESC : Attenuation type from 150kHz to 1MHz
■ ESM : Low leakage current type
■ ESP : Outside impulse attenuation type

Specifications

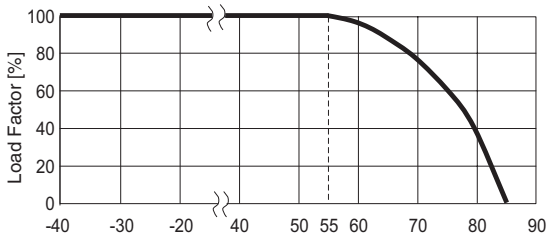
No.	Items	ESC-03-472 / ESM-03-000 / ESP-03-472	ESC-06-472 / ESM-06-000 / ESP-06-472	ESC-10-472 / ESM-10-000 / ESP-10-472	ESC-16-472 / ESM-16-000 / ESP-16-472
1	Rated Voltage[V]	AC 1φ 250 / DC250			
2	Rated Current[A]	3	6	10	16
3	Test Voltage (Terminal-Mounting Plate)	2,500 VAC (Cutoff Current = 20mA), 1minute at room temperature and humidity			
4	Isolation Resistance (Terminal-Mounting Plate)	500 VDC 500MΩ min at room temperature and humidity			
5	Leakage current	Refer to table 1.1			
6	DC resistance	180mΩ max	110mΩ max	40mΩ 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 Teil3-1, ENEC (At only AC input)			
14	Case size (without projection) /Weight	39×30×85 mm [1.54×1.18×3.35 inches] (W×H×D) /170g max (Option : -D refer to external view)			

Circuit Diagram



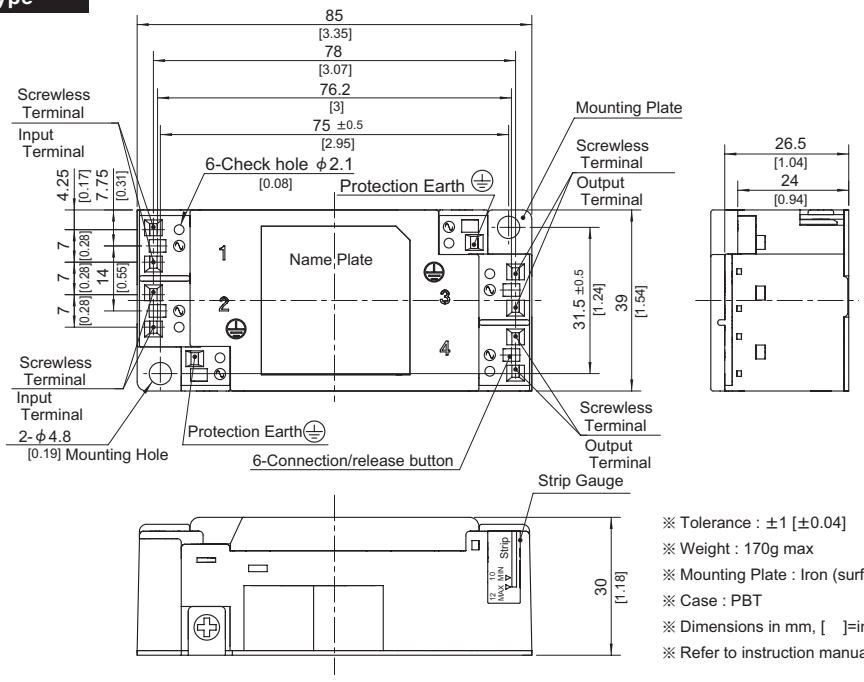
CY : Line to ground capacitor ⏚ : Mounting Plate

Derating Curve



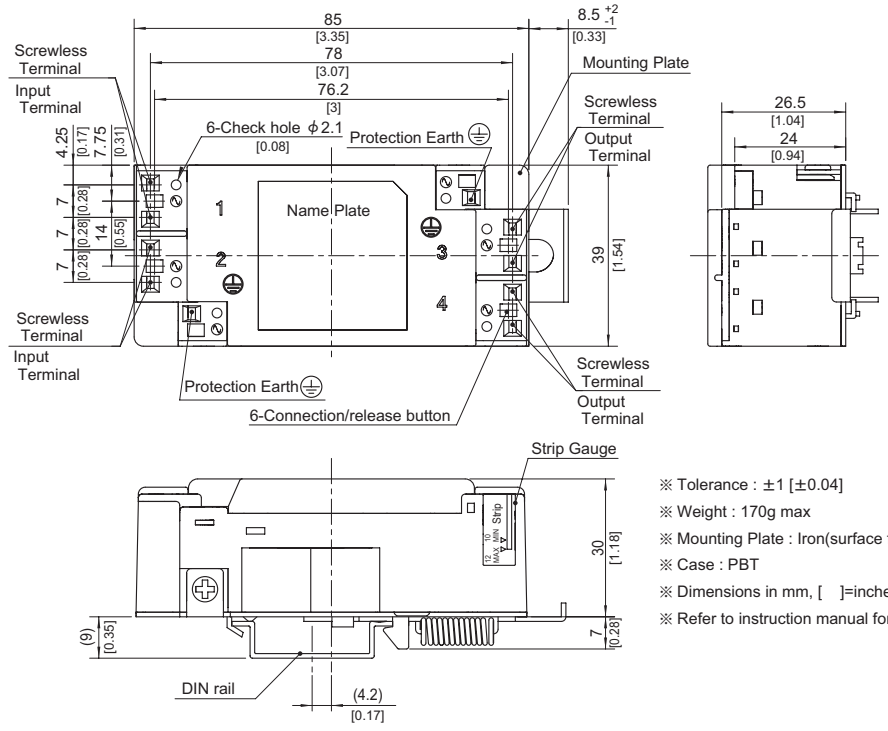
External view

Standard Type



※ Tolerance : ±1 [±0.04]
※ Weight : 170g max
※ Mounting Plate : Iron (surface finishing:nickel plating) t=1.0 [0.04]
※ Case : PBT
※ Dimensions in mm, [ ]=inches
※ Refer to instruction manual for details.

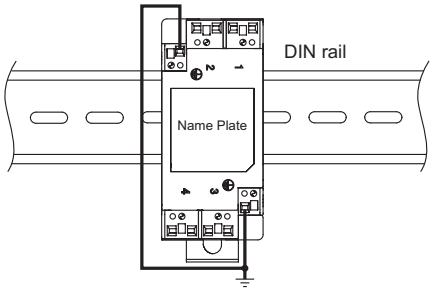
DIN rail installation Type



※ Tolerance : ±1 [±0.04]
※ Weight : 170g max
※ Mounting Plate : Iron(surface finishing:nickel plating) t=1.0 [0.04]
※ Case : PBT
※ Dimensions in mm, [ ]=inches
※ Refer to instruction manual for details.

■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.
At least one PE connection is required.



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