Ordering information

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

table1.1 Line to ground capacitor code

Code	E S C	E S M	E S P	Leakage Current (Input 125/250V 60Hz)			Line to ground capacitor (nominal value)
000				5	μΑ /	10μA max	Not Provided
101				12.5	μΑ /	25μA max	100pF
221				25	μΑ /	50μA max	220pF
331				37.5	μΑ /	75μA max	330pF
471				50	μA /	100μA max	470pF
681			lacksquare	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	I.0 mA max	4,700pF

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

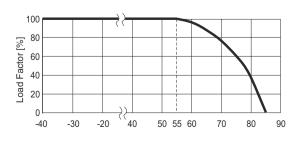
		ESC-03-472	ESC-06-472	ESC-10-472	ESC-16-472	
No.	Items	ESM-03-000	ESM-06-000	ESM-10-000	ESM-16-000	
		ESP-03-472	ESP-06-472	ESP-10-472	ESP-16-472	
1	Rated Voltage[V]	AC 1 \( \phi \) 250 / DC250				
2	Rated Current[A]	3	6	10	16	
3	Test Voltage (Terminal-Mounting Plate)	2,500 VAC (Cutoff Current = 20mA), 1minute at room temperature and humidity				
4	Isolation Resistance (Terminal-Mounting Plate)	500 VDC 500M $\Omega$ min at room temperature and humidity				
5	Leakage current Refer to table 1.1					
6	DC resistance	180m $\Omega$ max	110m $\Omega$ max	$40 \text{m}\Omega$ max	$20m\Omega$ 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℃/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					

#### **Circuit Diagram**

# Case LINE

#### CY : Line to ground capacitor $\stackrel{\perp}{=}$ : Mounting Plate

#### **Derating Curve**



Ambient Temperature [°C]

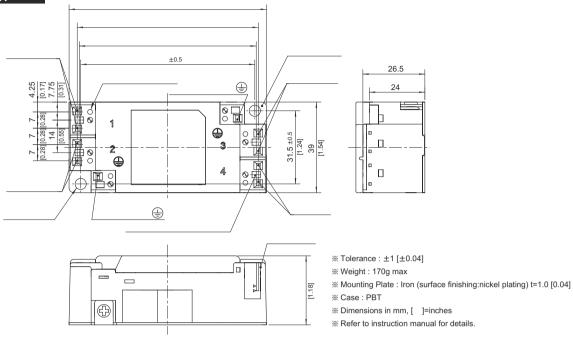
EA/ES-3 October 06, 2021

## ESC/ESM/ESP series COSEL

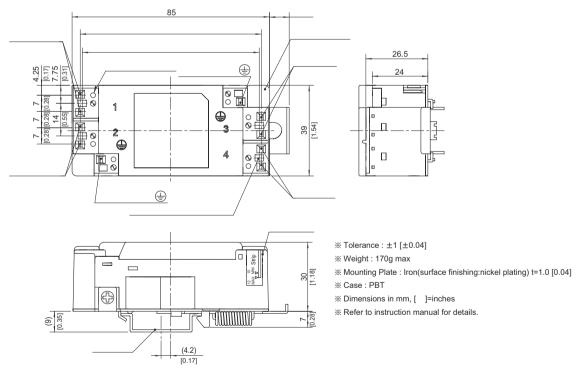


#### **External view**

#### 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.

At least one PE connection is required.

