JAC series (6-30A

-30



1 Model Name

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

table1.1 Line to ground capacitor code

Code	Leakage Current (Input 250/500V 60Hz) (Only "224" is 250/400V 60Hz)	Line to ground capacitor (nominal value)
103	0.5mA / 1.0mA max	10,000pF
223	1.0mA / 2.0mA max	22,000pF
683	2.5mA / 5.0mA max	68,000pF
224	15mA / 24mA max	220,000pF

*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.

H:Ultra high-attenuation type

"103","223","683" is applied.

U:Improve differential mode attenuation (Rated voltage 250V)

Features of JAC series

Compact and low profile, common mode EMI/EMC filters in 150kHz to 1MHz (1-stage filter)

- · Three Phase 500 VAC · Push down type terminal block
- Selectable leakage current value, Ultra high-attenuation type "224" for EU (Y type with neutral earth system)

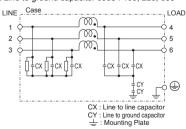
Specifications

NI.	H	140.00.000	140 40 000	140 00 000	140 00 000
No.	Items	JAC-06-683	JAC-10-683	JAC-20-683	JAC-30-683
1	Rated Voltage[V]	AC Three Phase 500 (voltage range:528 max) 50/60Hz *1 *2			
2	Rated Current[A]	6	10	20	30
3	Test Voltage (Terminal-Mounting Plate)	2,500 VAC (Cutoff Current = 100mA), 1minute at room temperature and humidity *3			
4	Isolation Resistance (Terminal-Mounting Plate)	500 VDC 100M Ω min at room temperature and humidity *4			
5	Leakage current 250/500V 60Hz	2.5mA/5.0mA max			
6	DC resistance	100 m Ω max	45mΩ max	15mΩ max	8mΩ 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			
14	Case size (without projection)	63 X 44 X 132 mm (W X H X D) (Option: -D refer to external view)			
14	Case Size (without projection)	[2.48×1.73×5.20 inches] (W×H×D)			
15	Weight	440g max			

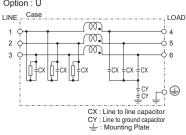
- Capacitor code "224" : Three Phase Δ -connection 400 (440 max), Y-connection 500 (528 max).
- "JAC-DD-DD-U" : Three Phase 250 (275 max).
- Capacitor code "224" : 2,800VDC (Cutoff Current = 10mA), 1 minute at room temperature and humidity.
- Capacitor code "224" : Isolation resistance specification is deleted.

Circuit Diagram

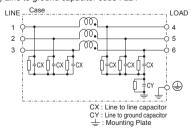
(1) Line to ground capacitor code: 103, 223, 683



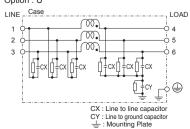
(3) Line to ground capacitor code: 103, 223, 683 Option: U



(2) Line to ground capacitor code: 224

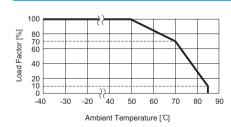


(4) Line to ground capacitor code: 224 Option: U



September 16, 2021

Derating Curve

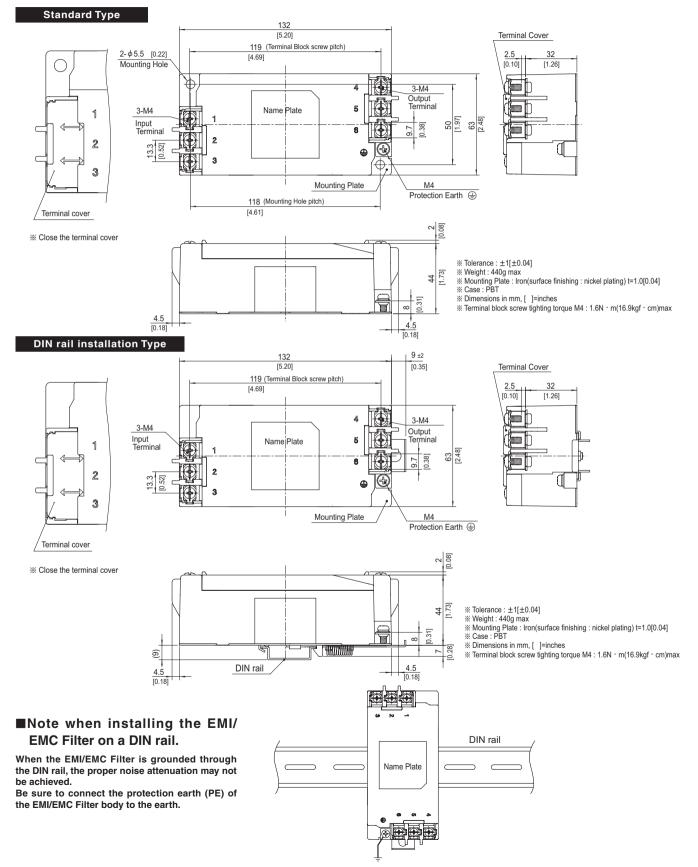




External view

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

- 1)The terminal cover is retracted inside the unit.
- 2)The screws for connecting the terminals are held in the up right position.



JAC series(40,50,60A

-50



①Series 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 : ∆-connection Lower row : Y-connection	Line to ground capacitor (nominal value)	
103	0.5mA / 1.0mA max 0.05mA / 0.1mA max	0.01μF	
223	1.0mA / 2.0mA max 0.1mA / 0.2mA max	0.022μF	
683	2.5mA / 5.0mA max 0.35mA / 0.7mA max	0.068μF	
224	15mA / 24mA max 2.0mA / 4.0mA max	0.22μF	
155	80mA / 125mA max 9.0mA / 18mA max	1.5 <i>μ</i> F	

- *When the line to ground capacitor code is different, the attenuation characteristic is different.
 - *1 Input 250/500V 60Hz
 - (∆-connection of "224","155" is 250/400V 60Hz)

4 Option

H:Ultra high-attenuation type

"103", "223", "683" is applied.

U:Improve differential mode attenuation (Rated voltage 250V)

Features of JAC series

Compact and low profile, common mode EMI/EMC filters in 150kHz to 1MHz (1-stage filter)

- · Three phase rated voltage 500 VAC (voltage range : 528V max)
- · Selectable leakage current value, Ultra high-attenuation type "224", "155" for EU (Y type with neutral earth system)

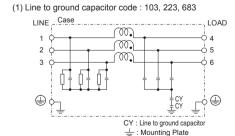
Specifications

No.	Items	JAC-40-683	JAC-50-683	JAC-60-683	
1	Rated Voltage[V]	AC Three Phase 500 (voltage range:528 max) 50/60Hz *2 *3			
2	Rated Current[A]	40	50	60	
3	Test Voltage (Terminal-Mounting Plate)	2,500 VAC (Cutoff Current = 100mA), 1minute at room temperature and humidity *4			
4	Isolation Resistance (Terminal-Mounting Plate)	500 VDC 100M Ω min at room temperature and humidity *5			
5	Leakage current 250/500V 60Hz	2.5mA/5.0mA max			
6	DC resistance	7.0mΩ max	5.0mΩ max	3.5 m Ω max	
7	Safety agency approval temperatures	-40 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°C/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	UL60939[Overvoltage Category: III Altitude: 3000m], CSA C22.2 No.8 (C-UL) EN60939(DEMKO)[Overvoltage Category: III Altitude: 3000m], ENEC			
14	Case size (without projection)	65 × 54 × 153 mm (W × H × D)			
14	Case size (without projection)	[2.56×2.13×6.02 inches] (W×H×D)			
15	Veight 800g max				

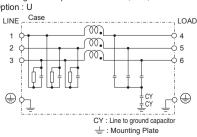
- Capacitor code "224" and "155" : Three Phase Δ-connection 400 (440 max), Y-connection 500 (528 max).
- "JAC-___U" : Three Phase 250 (275 max).

 Capacitor code "224" and "155" : 2,800VDC (Cutoff Current = 10mA), 1 minute at room temperature and humidity.
- Capacitor code "224" and "155": Isolation resistance specification is deleted.

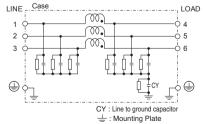
Circuit Diagram



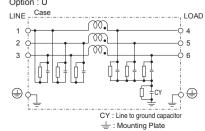
(3) Line to ground capacitor code: 103, 223, 683 Option : U



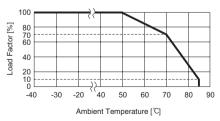
(2) Line to ground capacitor code: 224, 155



(4) Line to ground capacitor code: 224, 155 Option : U



Derating Curve

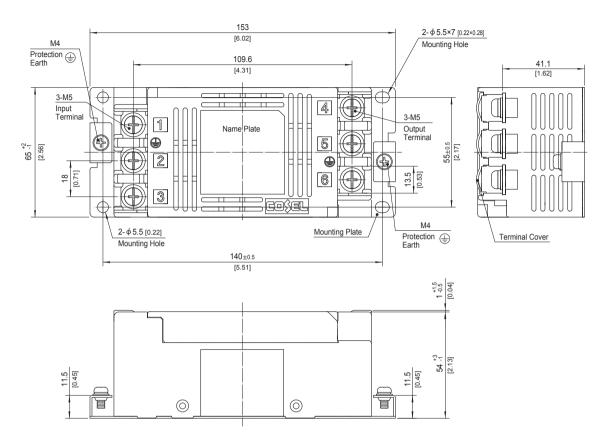


*Keep free ventilation holes for cooling.

JAC series(40,50,60A) | **CD\$EL**



External view



- % Tolerance : ±1 [±0.04]
 % Weight : 800g max
- Mounting Plate: Hot-dip Galvanized Steel board t =1.0 [0.04]
- ※ Dimensions in mm, []=inches
- ** Terminal block screw tightening torque M5 : 3.0N · m (30.7kgf · cm) max

 ** Protection Earth (PE) screw tightening torque M4 : 1.6N · m (16.9kgf · cm) max
- X Can not be mounted upside-down. (mounted the top surface)X Keep free ventilation holes for cooling.
- * Can be mounted using the 2 corner mounting holes.