

DC Electronic Circuit Protector S8V-CP



Adjustable rated output current per branch circuit, ranging from 2 to 10 A

Load branching and reliable protection with space-saving





Process

Simple & Easy for panel business

People

New Value

For

Control Panels

Innovation for panel building

Process

Achievement for secure DC line protection when short circuit or over current state happen on DC 24 V line.

In accordance with the accelerating demand to the high power rating of the power supplies due to increased DC devices, you must meet a growing need for the safety design of each branch circuit and reliable protection to a circuit where abnormality occurs.





Value Design for Panel

Our shared Value Design for Panel (herein after referred to as "Value Design") concept for the specifications of products used in control panels will create new value to our customer's control panels. Combining multiple products that share the Value Design concept will further increase the value provided to control panels.

Panels

Further Evolution

for

Panels

Peop

Protecting up to eight branch circuits in the 42-mm low profile design

Constant monitoring of the current realizes tripping characteristic with less variations and errors.

Easy wiring with the Push-In **Plus Terminal Blocks**





DC Electronic Circuit Protector S8V-CP

- 4ch S8V-CP0424
- 4ch S8V-CP0424S (UL Class 2 with a fixed rated output current 3.8 A)
- S8V-CP0824 8ch

Photo: S8V-CP0824

Free from new parts arrangements or conversions for sudden design change of devices. One fits various current range



Setting the rated output current available for 2 A, 3 A, 4 A, 6 A, 8 A, and 10 A.

* Also available is UL Class 2 compatible type with the fixed 3.8 A.

Push button with indicator

Just press the button to toggle ON/OFF for each branch circuit



3-step LED indication for easy indication of the status of each branch circuit

Green lit : Output ON





Yellow blinking or red blinking : output tripping / alarm output

Facing any challenge in performing safety design of electric circuit?

Design

- •Branch design and the design for securing the safety are complicated.
- Small diameter cables are preferable for easy wiring.

Selection

• The selection is difficult as the tripping characteristics of thermomagnetic circuit protectors may widely vary by the temperature and unit variations.

Assembly

• More branch circuits need more spaces.

Start-up and Maintenance

• If an abnormality occurred, the power supply activates its protection function to stop the all circuits prior to the tripping function activation of the thermomagnetic circuit protectors.



Replacement of the thermomagnetic circuit protector is easy

With maintaining the characteristics of the thermomagnetic circuit protector, make the variation errors less.



The operating characteristics of DC Electronic Circuit Protector (S8V-CP0424,S8V-CP0824)



An alarm signal output enables to output an abnormal occurrence to an upstream controller.



Sequential start-up of branch circuits minimizes start-up troubles by the inrush current.



Lineup





S8V-CP0424S (UL Class 2 with a fixed rated output current 3.8 A

424S h a fixed rront 2.8 A

S8V-CP0824

Model	Number of Outputs	Rated Input Voltage	Rated Output Current
S8V-CP0424	4ch	24V	2A、3A、4A、6A、8A、10A
S8V-CP0424S	4ch (ULClass2)		3.8A
S8V-CP0824	8ch		2A、 3 A、 4A、 6A、 8A、 10A



New Value for Control Panels

OMRON will help integrate both of designs and wirings with peripheral devices, such as noise filters, power supplies.



• By adding devices in the newly available space, you can mount more devices in the same size of control panel to increase control panel functionality

• We'll help you downsize control panels by reducing the width between wiring ducts and dead space.

Related Products



S8VK-S A small body for more compact control panels



S8VK-WA Three-phase 200V Power Supplies. Easy for balanced design

IoT Support for control panels, Compatible with EIP, Power Supplies with the indicator.

s, Easy setting, Noise filter

XW6T Common terminal blocks with visible indicators

The processes and costs for the UL certificate can be reduced.

UL Class2 [S8V-CP04245]

What is the UL Class 2 output?

It is the classification that indicates "power supplies and the related products with safety outputs of which voltage, current, and power are limited to a certain level, so that not to cause an electric shock or fire," and is evaluated by UL1310.

For the UL Class 2 output, the voltage, current, and power are provided as follows:

- DC30 V or lower of output voltage
- 8 A or lower of output current
- 100 VA or lower of output power

Any loads and parts to be connected to this UL Class 2 output can be used without UL certificate.

What is S8V-CP0424S (UL Class 2 output type)?

To meet the conditions of this UL Class 2 output, the rated output current is fixed at 3.8 A.

- 24 V of output voltage \rightarrow meets DC30 V or lower
- 3.8 A of output current \rightarrow meets 8 A or lower
- 24 V * 3.8 A of output power = 91.2 VA → meets 100 VA or lower

The processes and costs for applying to a safety standard for the devices can be reduced.

As S8V-CP0424S has already certified the UL Class 2 output, the UL evaluation of the circuit to be connected to this output may not be needed, which can help reduce processes and costs for the UL certificate. Any loads and parts to be connected to this UL Class 2 output can be used without UL certificate. Furthermore, that also helps for cost down and easy selection of the parts, because any wiring materials without UL certificate are usable in the control panel.

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