

**Product Discontinuation
Notices**

Issue Date
March 1, 2024

Product Discontinuation

Power Supplies



S8M series



Recommended Replacement

Power Supplies

S8V-CP series

[Final order entry date]

The end of March, 2026

[Date of The Last Shipping]

The end of June, 2026

[Caution on recommended replacement]

- There is no 7 segment display.
- There is no communication function (RS-232C).
- There is no alarm output function.
- The terminal block is a push-in Plus terminal block, and can be connected with either stranded wire, solid wire, or ferrule terminal.
- The branch output terminal does not have a -V terminal.
- There is a startup sequence function, but it cannot be enabled/disabled or set to any time.

[Difference from discontinued product]



Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
S8V-CP series	--	--	--	--	*	*	--

- ** : Compatible
- * : The change is a little/Almost compatible
- : Not compatible
- : No corresponding specification

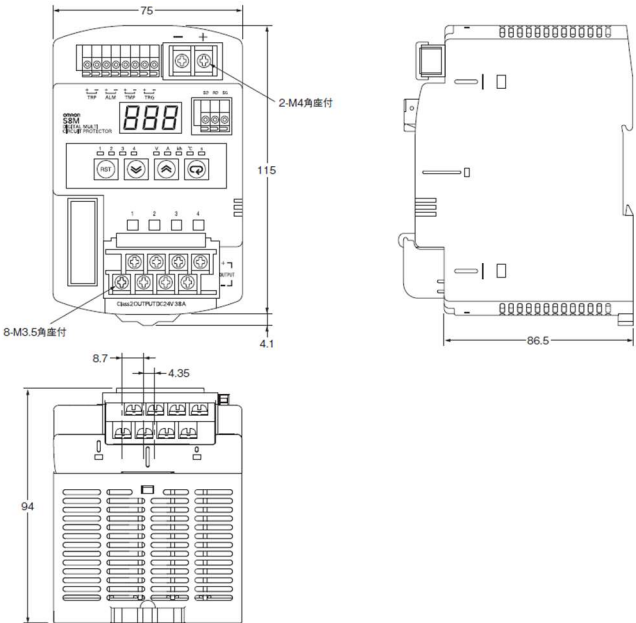
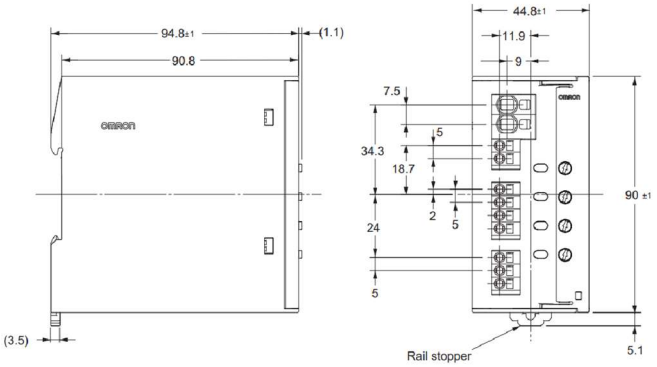
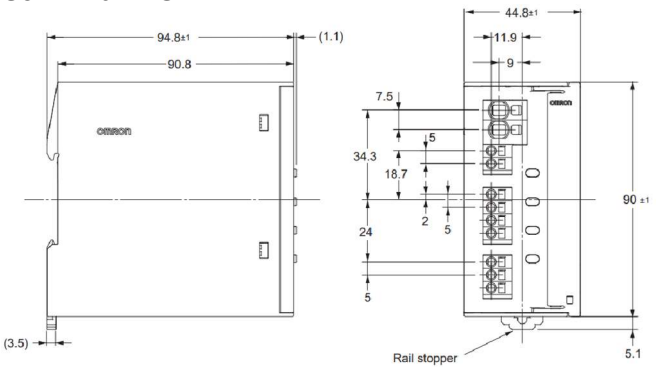
[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
S8M-CP04	S8V-CP0424
S8M-CP04-R	S8V-CP0424
S8M-CP04-RS	S8V-CP0424S
S8M-CP04-RS-30	S8V-CP0424S

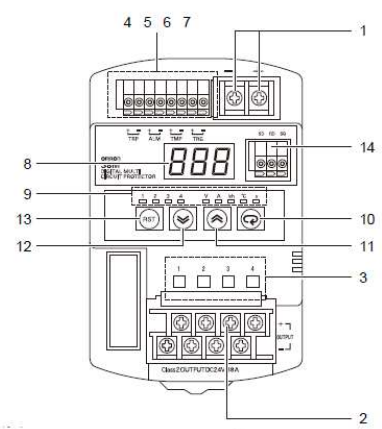
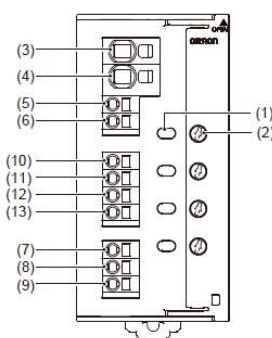
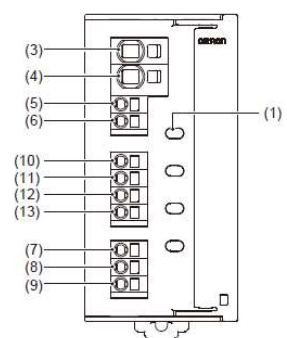
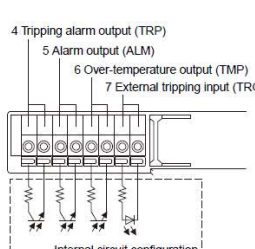
[Body color]

Product discontinuation S8TM series	Recommendable replacement S8V-CP series
<p>Case color Front: Blue Rear: Light gray</p> 	<p>Case color Black</p> 

[Mounting dimensions]

Product discontinuation S8M series	Recommendable replacement S8V-CP series
	<p>S8V-CP0424</p>  <p>S8V-CP0424S</p> 

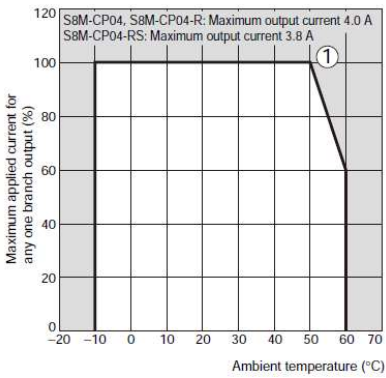
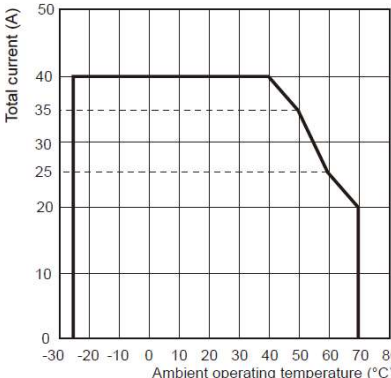
[Terminal arrangement / Wire connection / Display]

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[Ratings, Characteristics, and Functions]

Item		Product discontinuation S8M series	Recommendable replacement S8V-CP series	
		S8M-CP04 S8M-CP04-R	S8V-CP0424	
Number of branches		4	←	
I/O charac- teristics	Rated input voltage	24 VDC (19.2 to 26.4 VDC)	24 VDC (20 to 30 VDC)	
	Allowable input current	17.0 A max.	40.0A	
	Maximum tripping output current (per branch output)	4.0A	10.0A	
	Internal voltage drop (See note 1.)	0.5 VDC max. (at 4.0 A)	180 mV typ.	
	Output leakage current	10 mA max.	←	
	Power Consump- tion	4 branches output, normal operation	10 W max. (at 4.0 A)	8 W typ. (at 10 A x 4 CH)
4 branches output, tripping operation		3 W max.	0.7W typ.	
Functions	Tripping	Abnormal voltage tripping	28.8 V (fixed), tripping alarm output	None
		Abnormal current tripping	Setting range: 0.5 to 4.0 A (in 0.1-A units), tripping alarm output	2.0A, 3.0A, 4.0A, 6.0A, 8.0A, 10.0A
		Tripping alarm output	Transistor output 30 VDC max., 50 mA max., leakage current: 0.1 mA max., residual voltage: 2 V max.	MOS FET relay output 30 VDC max. 50 mA max. Leakage current when OFF: 0.1 mA max. Residual voltage when ON: 2 V max.

Alarms	Overvoltage	Setting range: 20.0 to 28.8 V (in 0.1-V units), alarm output	None
	Undervoltage	Setting range: 18.0 to 26.4 V (in 0.1-V units), alarm output	None
	Overcurrent	Setting range: 0.5 to 4.0 A (in 0.1-A units), alarm output	None
	Run time	Setting range: 0.0 to 99.9 kh (in 0.1-kh units), alarm output (The alarm output is disabled if the time is set to 0.0 kh.)	None
	Alarm output	Transistor output 30 VDC max., 50 mA max., leakage current: 0.1 mA max., residual voltage: 2 V max.	None
Temperature	Temperature	Setting range: 25 to 80°C, over-temperature output	None
	Over-temperature output	Transistor output 30 VDC max., 50 mA max., leakage current: 0.1 mA max., residual voltage: 2 V max.	None
Display	Input voltage	Display range: 17.0 to 30.0 V Display accuracy: 2% rdg ±1 digit max.	None
	Output current	Branch output display range: 0.0 to 4.0 A Peak output current display range: 0.0 to 10.0 A Total current display range: 0.0 to 40.0 A Display accuracy: 5% FS (4 A) ±1 digit max.	None
	Run time	Display range: 0.0 to 99.9 kh Display accuracy: 2% rdg ±1 digit max.	None
	Temperature	Display range: -10 to 100°C Display accuracy: 2°C ±1 digit max.	None
External tripping input		19.2 to 30 VDC, minimum signal width: 10 ms, tripping within 20 ms of input	None
Reset signal input		None (Possible by button operation)	High level: 20 to 30 VDC Low level: 0 to 5 VDC
Startup sequence		Can be enabled/disabled for each branch output, setting range: 0.0 to 99.9 s in 0.1-s units.	Start in the order of +V01 to +V04. The startup interval is automatically adjusted according to the load current (manual setting is not possible).
Shutdown sequence		Can be enabled/disabled for each branch output, setting range: 0.0 to 99.9 s in 0.1-s units.	None
Communications		S8M-CP04: None S8M-CP04-R: Supported (RS-232C)	None
Sampling period		1ms	None

<p>Ambient operating temperature</p>	<p>● Derating Curve</p>  <p>S8M-CP04, S8M-CP04-R: Maximum output current 4.0 A S8M-CP04-RS: Maximum output current 3.8 A</p>	<p>● Derating Curve</p> 	
<p>Storage temperature</p>	<p>-25 to 65°C</p>	<p>-40 to 85°C</p>	
<p>Ambient operating humidity</p>	<p>25% to 85% (storage humidity: 25% to 90%)</p>	<p>5% to 96% (storage humidity: 5% to 96%)</p>	
<p>Dielectric strength</p>	<p>1.0 kVAC for 1 min (between all charged sections and all non-charged sections; detection current:20 mA) 500 VAC for 1 min (between all I/O and I/O signals/communications; detection current: 20 mA) 500 VAC for 1 min (between all I/O signals and communications; detection current: 20 mA) 500 VAC for 1 min (between input signals and all output signals; detection current: 20 mA)</p>	<p>1.0 kVAC for 1 min (between all terminals and DIN rail mounting parts), current cutoff 20 mA</p>	
<p>Insulation resistance</p>	<p>100 MΩ min. (between all charged sections and all non-charged sections) at 500 VDC 100 MΩ min. (between all I/O and I/O signals/communications) at 500 VDC 100 MΩ min. (between all I/O signals and communications) at 500 VDC 100 MΩ min. (between input signals and all output signals) at 500 VDC</p>	<p>100 MΩ min. (between all terminals and DIN rail mounting parts) at 500 VDC</p>	
<p>Vibration resistance</p>	<p>10 to 55 Hz, 0.375-mm single amplitude for 2 h each in X, Y, and Z directions</p>	<p>10 to 55 Hz, maximum 5 G, 0.42 mm half amplitude for 2 h each in X, Y, and Z directions</p>	
<p>Shock resistance</p>	<p>150 m/s², 3 times each in ±X, ±Y, and ±Z directions</p>	<p>294 m/s², 3 times each in ±X, ±Y, ±Z directions</p>	
<p>Degree of protection</p>	<p>None</p>	<p>IP20 by IEC60529</p>	
<p>EMI</p>	<p>Conducted Emission</p>	<p>Conforms to EN 61204-3 Class B</p>	<p>Conforms to EN 61000-6-3</p>
	<p>Radiated Emission</p>	<p>Conforms to EN 61204-3 Class B</p>	
<p>EMS</p>	<p>Conforms to EN 61204-3 High severity levels</p>	<p>Conforms to EN 61000-6-2</p>	
<p>Approved standards</p>	<p>UL : UL508 (Listing) cUL : CSA C22.2 No.107.1 EN : EN62477-1</p>	<p>UL 508 (CSA22.2 No.14-10) Listing Pol2 CE (EN 61000-6-2, EN 61000-6-3)</p>	
<p>Weight</p>	<p>400 g max.</p>	<p>160 g max.</p>	

Item		Product discontinuation S8M series	Recommendable replacement S8V-CP series	
		S8M-CP04-RS	S8V-CP0424S	
Number of branches		4	←	
I/O charac- teristics	Rated input voltage	24 VDC (19.2 to 26.4 VDC)	24 VDC (20 to 28.8 VDC)	
	Allowable input current	16.0 A max.	15.2A	
	Maximum tripping output current (per branch output)	3.8A	←	
	Internal voltage drop	0.7 VDC max. (at 3.8 A)	180mV typ.	
	Output leakage current	10 mA max	←	
	Outputs conform to UL Class 2	conform	conform	
	Power Consump- tion	4 branches output, normal operation	15 W max. (at 3.8 A)	4 W typ. (at 3.8 A x 4 CH)
4 branches output, tripping operation		3 W max.	0.8W typ.	
Functions	Tripping	Abnormal voltage tripping	28.8 V (fixed), tripping alarm output	←
		Abnormal current tripping	Setting range: 0.5 to 3.8 A (in 0.1-A units), tripping alarm output	3.8A
		Tripping alarm output	Transistor output 30 VDC max., 50 mA max., leakage current: 0.1 mA max., residual voltage: 2 V max.	MOS FET relay output 30 VDC max. 50 mA max. Leakage current when OFF: 0.1 mA max. Residual voltage when ON: 2 V max.
	Alarms	Overvoltage	Setting range: 20.0 to 28.8 V (in 0.1-V units), alarm output	None
		Undervoltage	Setting range: 18.0 to 26.4 V (in 0.1-V units), alarm output	None
		Overcurrent	Setting range: 0.5 to 4.0 A (in 0.1-A units), alarm output	None
		Run time	Setting range: 0.0 to 99.9 kh (in 0.1-kh units), alarm output (The alarm output is disabled if the time is set to 0.0 kh.)	None
		Alarm output	Transistor output 30 VDC max., 50 mA max., leakage current: 0.1 mA max., residual voltage: 2 V max.	None
	Tempera- ture	Temperature	Setting range: 25 to 80°C, over- temperature output	None
		Over- temperature output	Transistor output 30 VDC max., 50 mA max., leakage current: 0.1 mA max., residual voltage: 2 V max.	None

	Display	Input voltage	Display range: 17.0 to 30.0 V Display accuracy: 2% rdg ±1 digit max.	None
		Output current	Branch output display range: 0.0 to 4.0 A Peak output current display range: 0.0 to 10.0 A Total current display range: 0.0 to 40.0 A Display accuracy: 5% FS (4 A) ±1 digit max.	None
		Run time	Display range: 0.0 to 99.9 kh Display accuracy: 2% rdg ±1 digit max.	None
		Temperature	Display range: -10 to 100°C Display accuracy: 2°C ±1 digit max.	None
	External tripping input	19.2 to 30 VDC, minimum signal width: 10 ms, tripping within 20 ms of input	None	
	Reset signal input	None (Possible by button operation)	High level: 20 to 30 VDC Low level: 0 to 5 VDC)	
	Startup sequence	Can be enabled/disabled for each branch output, setting range: 0.0 to 99.9 s in 0.1-s units.	None	
	Shutdown sequence	Can be enabled/disabled for each branch output, setting range: 0.0 to 99.9 s in 0.1-s units.	None	
	Communications	S8M-CP04 : None S8M-CP04-R : Supported (RS-232C)	None	
	Sampling period	1ms	None	
Ambient operating temperature	<p>●Derating Curve</p> <p>S8M-CP04, S8M-CP04-R: Maximum output current 4.0 A S8M-CP04-RS: Maximum output current 3.8 A</p>	<p>●Derating Curve</p>		
Storage temperature	-25 to 65°C	-40 to 85°C		
Ambient operating humidity	25% to 85% (storage humidity: 25% to 90%)	5% to 96% (storage humidity: 5% to 96%)		

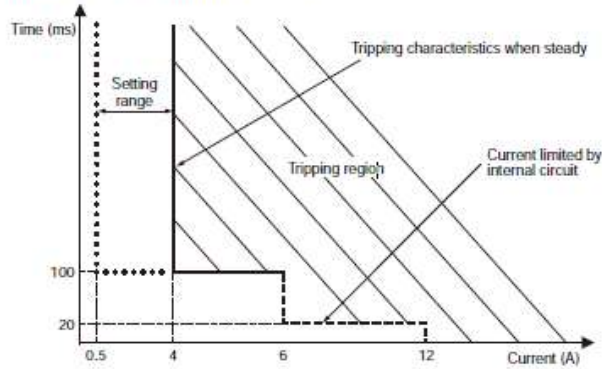
Dielectric strength		1.0 kVAC for 1 min (between all charged sections and all non-charged sections; detection current: 20 mA) 500 VAC for 1 min (between all I/O and I/O signals/communications; detection current: 20 mA) 500 VAC for 1 min (between all I/O signals and communications; detection current: 20 mA) 500 VAC for 1 min (between input signals and all output signals; detection current: 20 mA)	1.0 kVAC for 1 min (between all terminals and DIN rail mounting parts), current cutoff 20 mA
Insulation resistance		100 MΩ min. (between all charged sections and all non-charged sections) at 500 VDC 100 MΩ min. (between all I/O and I/O signals/communications) at 500 VDC 100 MΩ min. (between all I/O signals and communications) at 500 VDC 100 MΩ min. (between input signals and all output signals) at 500 VDC	100 MΩ min. (between all terminals and DIN rail mounting parts) at 500 VDC
Vibration resistance		10 to 55 Hz, 0.375-mm single amplitude for 2 h each in X, Y, and Z directions	10 to 55 Hz, maximum 5 G, 0.42 mm half amplitude for 2 h each in X, Y, and Z directions
Shock resistance		150 m/s ² , 3 times each in ±X, ±Y, and ±Z directions	294 m/s ² , 3 times each in ±X, ±Y, ±Z directions
Degree of protection		None	IP20 by IEC60529
EMI	Conducted Emission	Conforms to EN 61204-3 Class B	Conforms to EN 61000-6-3
	Radiated Emission	Conforms to EN 61204-3 Class B	
EMS		Conforms to EN 61204-3 High severity levels	Conforms to EN 61000-6-2
Approved standards		UL : UL508 (Listing. Class2 : Per UL1310) cUL : CSA C22.2 No. 107.1 (Class 2: Per No. 223) EN : EN62477-1	UL 508 (CSA22.2 No.14-10) Listing Pol2 UL 2367 Recognition (Max. 100W per output, per Class 2 limitations) Pol2 CE (EN 61000-6-2, EN 61000-6-3)
Weight		400 g max.	170 g max.

[Operation ratings]

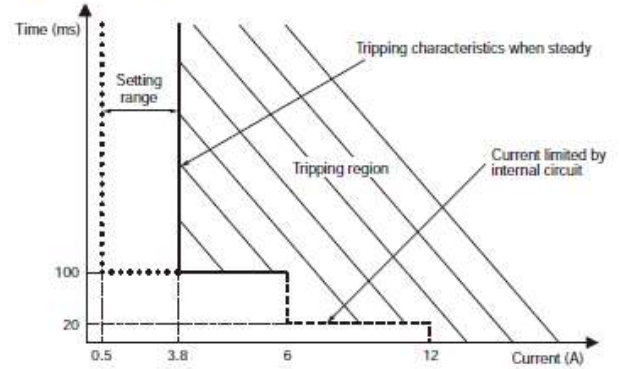
Product discontinuation
S8M series

● Abnormal Current Tripping
Standard Detection

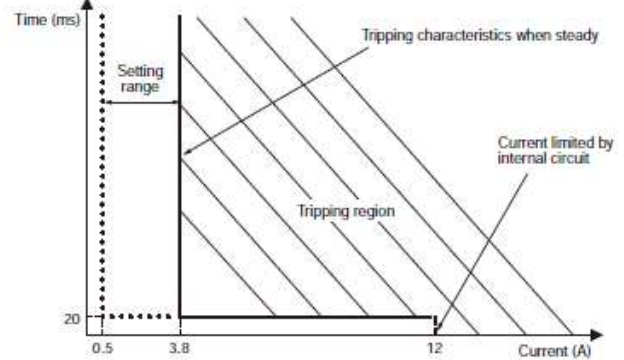
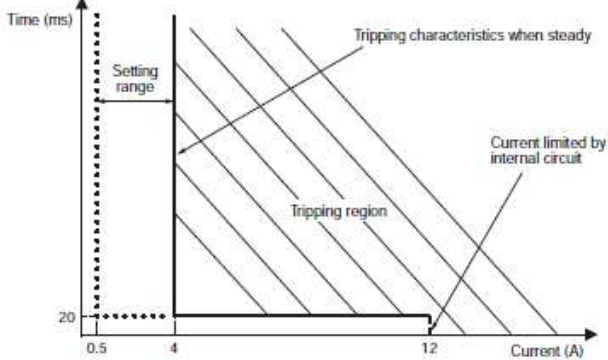
S8M-CP04/S8M-CP04-R



S8M-CP04-RS

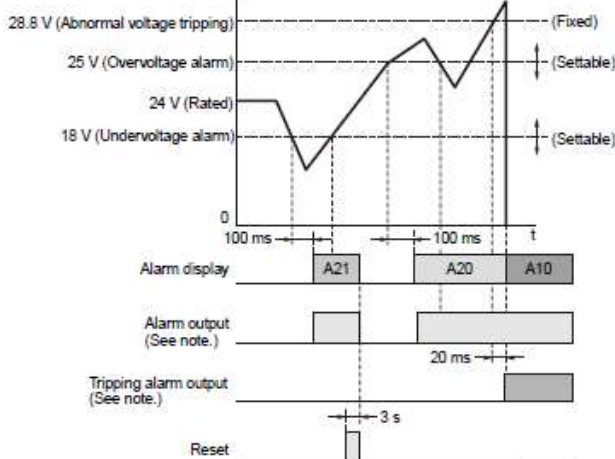


Instantaneous Detection



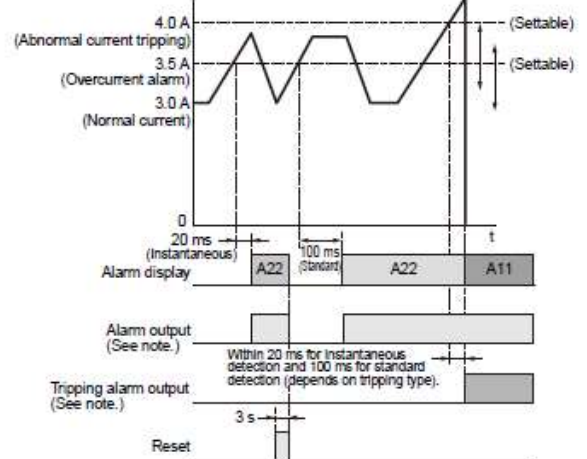
● Tripping Functions

Operation Timing1: Abnormal voltage tripping



Note: The alarm and tripping alarm output are both transistor outputs. It is normally ON and turns OFF when an alarm is detected.

Operation Timing2: Abnormal current tripping

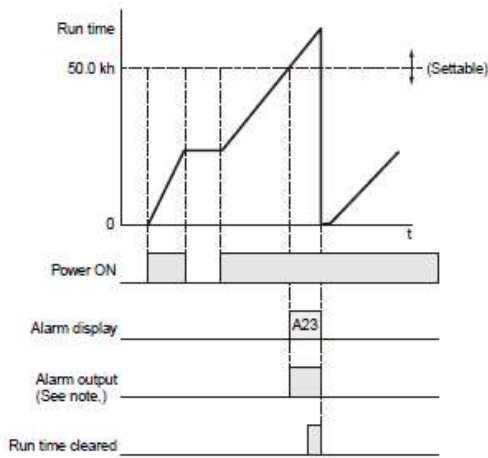


Note: The alarm and tripping alarm output are both transistor outputs. It is normally ON and turns OFF when an alarm is detected.

Product discontinuation
S8M series

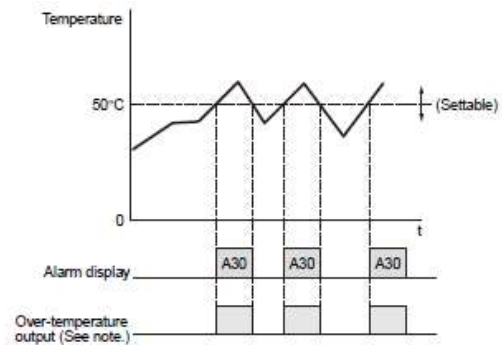
● Alarm Functions

Operation Timing1: Abnormal voltage tripping



Note: The alarm output is a transistor output. It is normally ON and turns OFF when an alarm is detected.

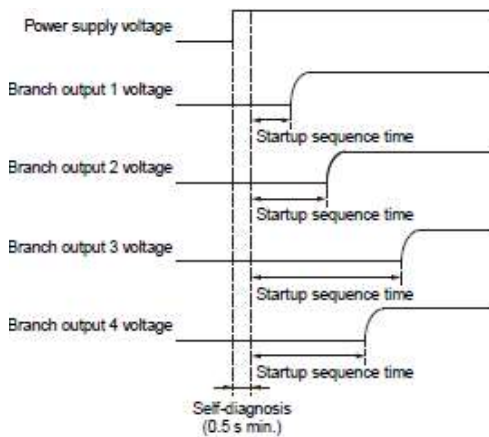
Operation Timing2:
Over-temperature output time alarm



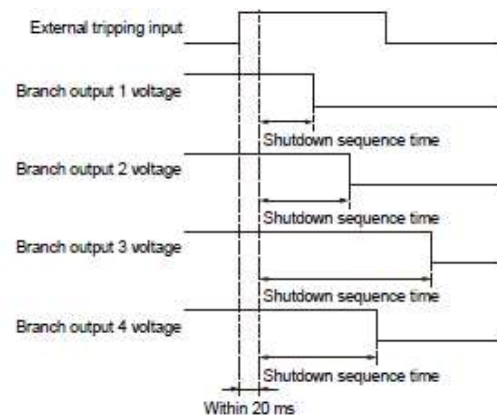
Note: The alarm display and over-temperature output are automatically cleared (with hysteresis). (Refer to page 16.) The over-temperature output is a transistor output. It is normally ON and turns OFF when an alarm is detected.

● Other Functions

Operation Timing1: Startup sequence



Operation Timing1: Shutdown sequence



Note: Tripping operation is simultaneous for tripping made for abnormal voltages (28.8 V or higher).

**Product discontinuation
S8M series**

● **List of Alarms**

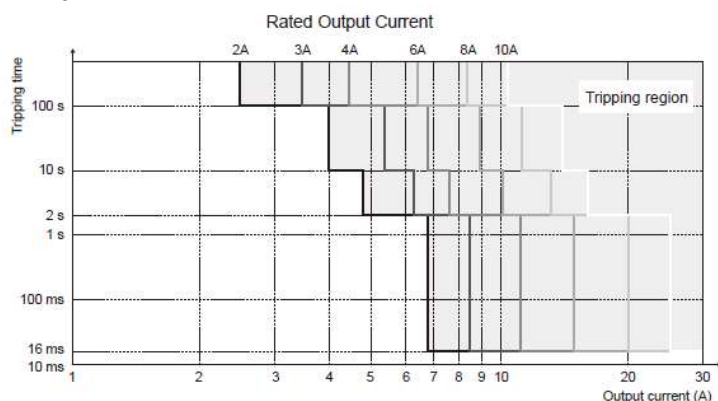
Alarm display	Name	Alarm outputs	Power outputs	Recovery/reset method
A10	Abnormal voltage tripping	TRP output: OFF (normally ON)	Cut off	Remove the cause of the abnormality and then press the Reset Key (⏏) on the front panel for at least 3 s or use communications reset function (S8M-CP04-R/RS only). Power supply will be restarted after recovery. Note: 1. Resetting will be possible from 15 s after the output is cut off. 2. Cutoff and alarm status will not be reset even if the power supply is reset.
A11	Abnormal current tripping	TRP output: OFF (normally ON)	Cut off	Remove the cause of the abnormality and then press the Reset Key (⏏) on the front panel for at least 3 s or use communications reset function (S8M-CP04-R/RS only). Power supply will be restarted after recovery. Note: 1. Resetting will be possible from 15 s after the output is cut off. 2. Cutoff and alarm status will not be reset even if the power supply is reset.
A20	Overvoltage alarm	ALM output: OFF (normally ON)	ON	Remove the cause of the alarm and then press the Reset Key (⏏) on the front panel for at least 3 s or use communications reset function (S8M-CP04-R/RS only). Run Mode will be returned to after the alarm is reset. Note: 1. Resetting will be possible if the voltage remains below the set value minus 0.3 V for at least 500 ms from 15 s after the alarm occurs. 2. The alarm status will be reset if the cause of the alarm has been removed when the power supply is reset.
A21	Undervoltage alarm	ALM output: OFF (normally ON)	ON	Remove the cause of the alarm and then press the Reset Key (⏏) on the front panel for at least 3 s or use communications reset function (S8M-CP04-R/RS only). Run Mode will be returned to after the alarm is reset. Note: 1. Resetting will be possible if the voltage remains above the set value plus 0.3 V for at least 500 ms from 15 s after the alarm occurs. 2. The alarm status will be reset if the cause of the alarm has been removed when the power supply is reset.
A22	Overcurrent alarm	ALM output: OFF (normally ON)	ON	Remove the cause of the alarm and then press the Reset Key (⏏) on the front panel for at least 3 s or use communications reset function (S8M-CP04-R/RS only). Run Mode will be returned to after the alarm is reset. Note: 1. Resetting will be possible if the current remains below the set value for at least 500 ms from 15 s after the alarm occurs. 2. The alarm status will be reset if the cause of the alarm has been removed when the power supply is reset.
A23	Run time alarm	ALM output: OFF (normally ON)	ON	Perform the run time clear operation in Setting Mode. CLR (run time clear) will be displayed on the Setting Mode Menu and YES/NO will be displayed when the Mode Key (⏏) is pressed. The run time will be cleared if the Mode Key (⏏) is pressed again when Yes is displayed. Note: CLR (run time clear) will not be displayed on the Setting Mode Menu in protection level 2. Change the protection level to level 0 or 1 using the Protection Mode Selection Menu and then clear the run time.
A30	Over-temperature output	TMP output: OFF (normally ON)	ON	The alarm display and over-temperature output will automatically be reset if the temperature remains below the set value minus 3°C for at least 5 s.

Note: Alarms will be displayed in order of priority if more than one alarm occurs at the same time.
Order of priority: A10, A11, A20, A21, A22, A23, A30.

[**Operation methods**]

**Product discontinuation
S8V-CP series**

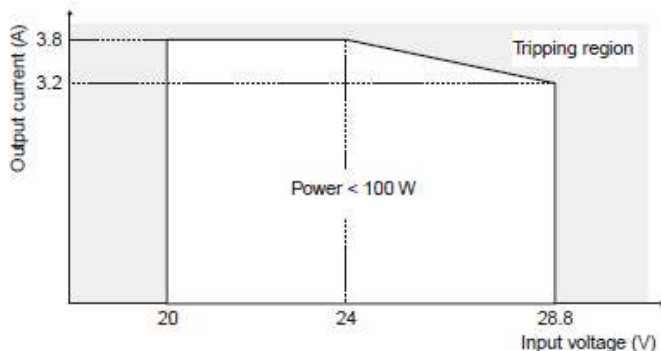
● **Current Tripping Characteristics
S8V-CP0424**



Note: If the power rating of the power supply unit is insufficient, the overcurrent protection characteristic can cause a voltage drop in all the outputs. In order to trip the current according to the above characteristic, select a power supply unit with a current higher than the total tripping current considering the power consumption of the S8V-CP.

**Product discontinuation
S8V-CP series**

S8V-CP0424S



- Note:**
1. Input voltage 24 to 28.8 VDC tripping current is decreased to less than 3.2 A in accordance with the current and voltage tripping characteristic.
 2. Current tripping takes place between 250 ms to 5 s.

Specifications and prices in this product news are as of the issue date and are subject to change without notice. Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.