

Current Sensor SAO

CSM_SA0_DS_E_5_3

Solid-state, Plug-in Current Sensor

- Applicable to motor overcurrent protection and 3-phase AC current detection.
- Inverse-type, start-up lock type, and instantaneous type overcurrent sensors available.
- Instantaneous type under current sensor available.
- Plug-in design simplifies installation, removal, and wiring.
- DIN sized (48 mm x 96 mm)



The SAO cannot be used in circuits with waveform distortion, inverter circuits, or with capacitor loads.



Model Number Structure

■ Model Number Legend

SAO-□□□□
1 2 3 4 5

1. Basic model name

SAO: Current Sensor

2. Operating time characteristics

R: Inverse type: inverse time both at starting and during operation

Q: Instantaneous type with start-up lock

S: Regular instantaneous type

3. Detection function

U: Underrun detection

None: Overcurrent detection

4. Control voltage

1: 100/110/120 VAC

2: 200/220/240 VAC

5: 24 VDC

6: 48 VDC

7: 100/110 VDC

5. Product history

N: New version

Ordering Information

Terminal/ mounting	Control voltage	Overcurrent detection			Under current detection	
		Inverse type	Instantaneous type			
			W/start-up lock*	W/o start-up lock		
Plug-in/DIN rail via socket	100/110/120 VAC	SAO-R1N	SAO-Q1N	SAO-S1N	SAO-SU1N	
	200/220/240 VAC	SAO-R2N	SAO-Q2N	SAO-S2N	SAO-SU2N	
	24 VDC	SAO-R5N	SAO-Q5N	SAO-S5N	SAO-SU5N	
	48 VDC	SAO-R6N	SAO-Q6N	SAO-S6N	SAO-SU6N	
	100/110 VDC	SAO-R7N	SAO-Q7N	SAO-S7N	SAO-SU7N	

* Fixed time-limit at start-up, instantaneous thereafter.

■ Accessories (Order Separately)

Current Converters

Model	Current range
SET-3A	1 to 80 A
SET-3B	64 to 160 A

DIN rail socket
8PFA1

Socket

Type	Model
Front connecting socket	8PFA1