

SIEMENS



SION VACUUM CIRCUIT-BREAKERS 3AE3

Keeping it small is a sign of greatness

[siemens.com/SION](https://www.siemens.com/SION)

Imagine you could build medium-voltage switchgear for IEEE/ANSI applications using only 80 % of the usual space typically used for circuit-breakers. That vision now becomes reality with the compact design of the SION 3AE3 vacuum circuit-breaker. It can be integrated quickly and easily into most air-insulated medium-voltage switchgear panels and is a superior solution for all switching functions in medium-voltage networks. SION vacuum circuit-breakers control all general switching duties in medium-voltage distribution systems and industrial networks: from switching of load and short-circuit currents, up to coupling of network or busbar sections. They are applicable for operation of, for example, overhead lines, cables, transformers, capacitors, and motors.



Designed for any project parameters

- Rated maximum voltage: 4.76 - 27 kV
- Rated short-time current: up to 40 kA
- Rated continuous current: up to 3,000 A



Save space

extremely compact solution compared to other IEEE/ANSI switching devices



Play it safe

designed and type-tested in compliance to latest IEEE/ANSI standards



Enjoy trusted performance

based on established and proven global SION 3AE platform portfolio



All certifications you need

approved by UL and CSA

Fully customizable switching device

The SION 3AE3 can be used as a fixed-mounted device (stationary operator) while any withdrawable mechanisms, primary contacts and other interfaces can be individually provided by the panelbuilder. Customers can choose between different pole-center distances (PCD) that are available for almost all voltage and current ratings.



			PCD 210 mm	PCD 275 mm	
4.76 kV	25 kA	600 A	•		
		1200 A	•		
		3000 A	•	•	
	31.5 kA	3000 A	•	•	
		40 kA	1200 A	•	•
			2000 A	•	•
			3000 A	•	•
8.25 kV	40 kA	1200 A	•	•	
		2000 A	•	•	
		3000 A	•	•	
		4000 A ¹⁾	•	•	
15 kV	25 kA	600 A	•		
		1200 A	•		
		3000 A	•	•	
	31.5 kA	3000 A	•	•	
		40 kA	1200 A	•	•
			2000 A	•	•
			3000 A	•	•
27 kV	16 kA	600 A	•	•	
		1200 A	•	•	
		2000 A	•	•	
	25 kA	600 A	•	•	
1200 A		•	•		
	2000 A	•	•		

¹⁾ with forced cooling

Complete withdrawable solution

There is also a selected range of withdrawable devices available. Here, the SION 3AE3 is being mounted onto a compact withdrawable part, that moves the switching device from the DISCONNECT/TEST to the CONNECT position. The connection to the bus bars / fixed contacts of the panel is done with the included primary contacts.



			PCD 150 mm	PCD 210 mm
15 kV	25 kA	1200 A	•	
		2000 A		•
	31.5 kA	1200 A	•	
		2000 A		•

All SION 3AE3 devices are available with various release combinations, including:

- shunt release
- undervoltage release
- CT-operated releases

They offer various options for the secondary connection interfaces and auxiliary switches and work within the typical IEEE/ANSI control voltages: 48 / 125 / 250 V DC and 120 / 240 V AC.

Want your 3AE3 in less than 60 seconds?

Try our 3AE3 product configuration tool, building your perfect product in just a few clicks:

[➔ 3AE3 Product Configurator](#)

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