



TOSHIBA

For keeping power infrastructure running

Vacuum Interrupter



Toward a society where power never stops

The environment surrounding power infrastructure is undergoing significant change.

The increasing severity of natural disasters is placing greater demands on power equipment, requiring stable operation under more extreme conditions than ever before. At the same time, the rapid expansion of AI and data centers is driving unprecedented demand for electricity in our world. Power has become something that cannot be interrupted—it is increasingly indispensable to society.

What is required today is not simply high performance. Power systems must continue to operate safely, reliably, and efficiently under any conditions. Power infrastructure now must meet the demand for achieving both uninterrupted operation and the balance of reliability, safety, and cost efficiency.



Why we at Toshiba continue to be chosen

For more than half a century, we have continued to develop and deliver vacuum interrupters, leading the advancement of the industry.

To date, we have achieved cumulative sales of more than 4.1 million units. More importantly, the high rate of repeat adoption by our customers is clear proof of the trust placed in our products. In addition, by operating in highly demanding markets where stable equipment operation is the highest priority, we have developed a deep understanding of the fundamental requirements of power infrastructure.

Based on this experience, we have established design and manufacturing practices that let us thoroughly control everything from material selection to production processes and quality management, minimizing variation between the units of each product to the greatest possible extent.

In power infrastructure, quality is defined not simply by high performance, but by consistency between each product's individual units, resistance to aging, and the ability to continue functioning reliably over the long term. Our strength lies in the expertise built through these many years of experience and in the research and development capabilities that enable us to put that expertise into practice.

A society where power never stops. Our responsibility to make that possible is at the very core of the value our vacuum interrupters provide.



Uncompromising Technology that Earns Confidence

We are committed to continuous research and technological innovation to enhance the operational stability of vacuum interrupters and create further value.

Since the early stages of vacuum interrupter technology, we have actively driven its development and led the advancement of the industry. We were the first in the world to commercialize axial magnetic field (AMF) electrodes, and have established and applied solid insulation technologies, leading the industry's development with a clear view toward the future of power infrastructure.

In the field of contact materials, we optimize material properties to enhance interruption performance, dielectric strength, and resistance to contact welding, while also developing materials capable of handling a wide range of voltage stress conditions. Through research on vacuum arc behavior, we have achieved both compact product design and improved stability in interruption performance. In insulation technology, we are working with higher voltage applications and expanding our solutions for air- and gas-insulated systems, while also advancing insulation performance in preparation for future SF₆-free technologies. In addition, in our manufacturing operations, we promote automation in assembly and quality control processes to minimize variation in quality and ensure a stable product supply.

Through our accumulation of these technologies, our vacuum interrupters continue to deliver stable performance and a high level of reliability over the long term.

Creating Value from the Customer's Perspective

The stable performance of vacuum interrupters creates significant value across the entire operation of power equipment.

By minimizing performance variation and the effects of aging, the risk of equipment trouble and unexpected outages can be reduced. Maintaining stable performance also helps prevent unnecessary replacements and unplanned repairs, thereby reducing the burden of maintenance and inspection. Furthermore, by minimizing product quality variability, uncertainty during design and selection is reduced, leading to greater stability in procurement and operation.

Our vacuum interrupters not only support the reliability of power systems, but also contribute to optimizing operating costs and reducing risk.

Value We Deliver

- Reduced risk of equipment trouble and unexpected outages
- Lower maintenance, inspection, and replacement costs
- Optimized total cost of ownership (TCO)
- Reduced uncertainty in design, procurement, and operation



Product Lineup

We offer a wide range of vacuum interrupters designed to meet various applications and specification requirements.



Lineup

Applications

- For circuit breakers
- For contactor switches
- For load break switches

Ratings ranges

Rated voltage : 1.5 kV to 84kV
Rated current : 400A to 4000A
Breaking current : 4kA to 63kA

Key Features

- Wide-ranging product lineup covering diverse ratings
- Proven track record across various applications
- Optimized designs tailored to specification requirements



Vacuum Interrupters for Circuit Breakers

Rated Voltage	Rated lightning impulse withstand Voltage	Power frequency withstand Voltage	Rated Current	Rated breaking current							
kV	kV	kV	A	12.5kA	16kA	20kA	25kA	31.5kA	40kA	50kA	63kA
3.6/7.2	60	22	630	SVB-6J13A	SVB-6J20A	SVB-6M20A					
			1250								
			2000								
			3150								
12	75	28	630				SVB-10M25X	SVB-10M32X	SVB-10M40E		
			1250								
			2000				SVB-10P25E	SVB-10P32X	SVB-10P40E		
			3150								
			4000								
24	125	50	630								
			1250								
			2000								
36	170	70	630								
			1250								
			2000				SVB-30P25				
			1250								
72.5	325	140	2000								
			1250								

Vacuum Interrupters for Contactor Switches

Rated Voltage	Power frequency withstand Voltage	Rated Current	Interrupting current			
kV	kV	A	4kA	5kA	6.3kA	12.5kA
1.50	6	630	SVC-3G4A1		SVC-1J6A	
3.6	16	320				
7.2	22	400				
12	22	630	SVC-6H4C1		SVC-6H6A	SVB-6J13S2
	28	320				
	28	400				
15	28	320			SVC-10G5C	
					SVC-10H5S	
					SVC-10G5S	

Vacuum Interrupters for Load Break Switches

Rated Voltage	Rated lightning impulse withstand Voltage	Power frequency withstand Voltage	Rated Current	Maximum breaking current
kV	kV	kV	A	4kA
7.2	70	35	400	SVD-6HA1
			630	SVD-6JA1

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