

**SDB375V
/14AU**



**SDB375V
/32AU**



**SDB375V
/50AU**



**SDB800V
/100AB**



Solid-state DC Circuit Breaker (SSCB) is an ultra-fast protective device against Short Circuit, Overload and Under/Overvoltage for DC electrical systems.



Ultra-fast & safe

Less than $10\mu\text{s}$ circuit protection with arc-less disconnect



High efficiency

>99.9% peak efficiency



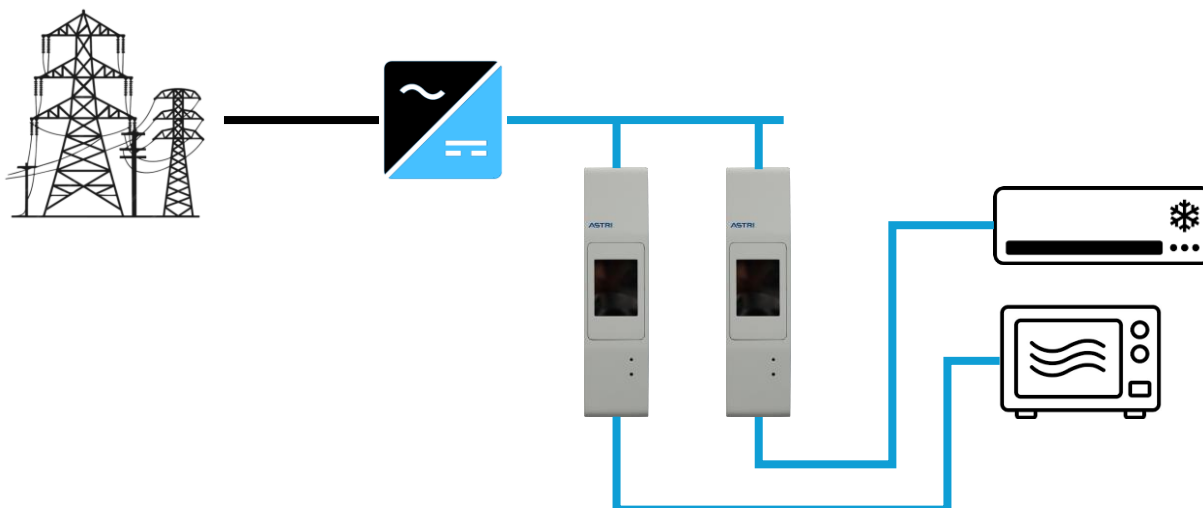
Simple control

Remote & local control & adjust trip curve



Fault identification

Distinguish real short circuit fault from inrush current



Product Specification

	375V/14AU	375V/32AU	375V/50AU	800V/100AB
Technical Data				
Nominal Voltage	375V DC	375V DC	375V DC	800V DC
Voltage Range	200 – 400V DC	200 – 400V DC	200 – 400V DC	200 – 800V DC
Nominal Current	14A	32A	50A	100A
No. of Poles	2	2	2	2
Power Flow	Unidirectional	Unidirectional	Unidirectional	Bi-directional
Protection	Short circuit, Overload, OVP, UVP	Short circuit, Overload, OVP, UVP	Short circuit, Overload, OVP, UVP	Short circuit, Overload, OVP, UVP
Short-Circuit Capability	-	-	2.8kA	-
Efficiency	>99.9% from 10% to 100% load	>99.9% from 10% to 100% load	>99.9% from 10% to 100% load	>99.8% from 10% to 100% load
Inrush Limiter	2.5Ω 3W	2.5Ω 3W	2.5Ω 3W	5.0Ω 6W
General Data				
Type of Cooling	Natural cooling	Natural cooling	Natural cooling	Fan cooling
Operating Environment	0 – 40°C / 0 – 95% RH non-condensing, 14A @40°C	0 – 40°C / 0 – 95% RH non-condensing, 32A @40°C	0 – 40°C / 0 – 95% RH non-condensing, 50A @ 40°C, 40A @ 50°, 30A @60°C	0 – 40°C / 0 – 95% RH non-condensing, 100A @25°C, 90A @ 30°C, 80A @40°C
Dimension (mm)	41(W) x 156(H) x 114(I)	55(W) x 320(H) x 114(I)	55(W) x 217(H) x 114(I)	145(W) x 229(H) x 86(I)
Communication	Wi-Fi	Wi-Fi	Wi-Fi	Wi-Fi / CAN
Light Indication	Normal ON – Blue stable Normal OFF / Fault – Blue flash	Normal ON – Blue stable Normal OFF / Fault – No light	Normal ON – Blue stable Normal OFF / Fault – No light	Normal ON – Blue stable Normal OFF / Fault – No light
Installation	Din – rail	Din – rail	Din – rail	Din – rail
Installation Position	Vertical	Vertical	Vertical	Vertical
Configuration Method	Internet remote	Touch panel / Internet remote	Touch panel / Internet remote	Touch panel / Internet remote
Degree of Protection	IP21	IP21	IP21	IP21

	375V/14AU	375V/32AU	375V/50AU	800V/100AB
Option - Integrated MCB				
Part Number		ABB OTDC32F2 375V DC		
No. of Poles		2		
Rated Impulse Withstand Voltage		8kV		
Standards		IEC 60947Din – rail 1, -3		



SDB800V/800AB

800V/800AB Solid-state DC Circuit Breaker (SSCB) is an ultra-fast protective device against Short Circuit, Overload and Under/Overvoltage for marine application.



Ultra-fast & safe

Less than $10\mu\text{s}$ circuit protection with arcless disconnect



High efficiency

>99.7% peak efficiency



Liquid cooling

Provide high performance thermal management



Simple control

Remote & local control & adjust trip curve



Product Specification

SDB800V/850AB

Technical Data

Nominal Voltage	800V DC
Voltage Range	200 – 820V DC
Nominal Current	800A
No. of Poles	2
Power Flow	Bidirectional
Protection	Short circuit, Overload, OVP, UVP
Short-Circuit Capability	39kA
Efficiency	>99.5% from 10% to 100% load
Inrush Limiter	-

General Data

Type of Cooling	Liquid cooling
Operating Environment	0 – 40°C / 0 – 95% RH non-condensing
Dimension (mm)	450(W) x150(H) x 720(I)
Communication	Wi-Fi
Light Indication	Normal ON – Blue stable
	Normal OFF / Fault – No light
Installation	Rack-mount
Degree of Protection	IP21

