

SDB375V /14AU



SDB375V /32AU



SDB375V /50AU



SDB750V /50AB



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 μ s circuit protection with arcless disconnect



High efficiency

Max. 37.5kW DC power with 98% peak efficiency



Natural cooling

No acoustic noise & eliminate fan power loss



Simple control

Remote & local control & adjust trip curve



Product Specification

	375V/14AU	375V/32AU	375V/50AU	750V/50AB
Technical Data				
Nominal Voltage	375V DC	375V DC	375V DC	750V DC
Voltage Range	200 – 400V DC	200 – 400V DC	200 – 400V DC	200 – 800V DC
Nominal Current	14A	32A	50A	50A
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% from 10% to 100% load	>99% from 10% to 100% load	>99% from 10% to 100% load	>98% 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	Natural 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, 50A @40°C, 40A @ 50°C, 30A @60°C
Dimension (cm)	4.1(w) x 15.6(h) x 11.4(l)	5.5(w) x 32.0(h) x 11.4(l)	5.5(w) x 21.7(h) x 11.4(l)	6.3(w) x 24.2(h) x 15.4(l)
Communication	Wi-Fi	Wi-Fi	Wi-Fi	Wi-Fi
Light Indication	Normal ON – Blue stable	Normal ON – Blue stable	Normal ON – Blue stable	Normal ON – Blue stable
	Normal OFF / Fault – Blue flash	Normal OFF / Fault – No light	Normal OFF / Fault – No light	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	750V/50AB
Option - Integrated MCB				
Part Number		ABB OTDC32F2 375V DC		
No. of Poles		2		
Rated Impulse Withstand Voltage		8kV		
Standards		IEC 60947Din – rail 1, -3		
Option - Leakage Current Protection Module				
DC Earth Leakage Trip Level	-	-		6mA
Response Time	-	-		250ms
Dimension (cm)	-	-		6.3(w) x 5.5(h) x 5.0(l)

