



OCTOBER 2025, DANIELE PANDOLFO, PRODUCT MANAGER PL CRITICAL POWER

S800 SERIES PRESENTATION

S800 high performance circuit breaker

ENGINEERED
TO OUTRUN

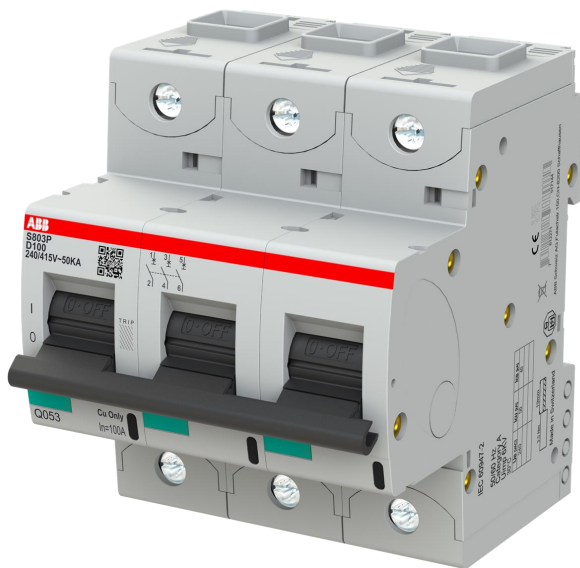
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 - Railway
 - Renewables
 - Various industries and buildings
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SERIES PRESENTATION

S800

Overview



Compact, reliable and high performing

Miniature circuit breaker in only 1.5 module width per pole, with high breaking capacity and rated current.

Perfect solution for all applications where high performances are required.

Standard range

Different series with breaking capacity up to 50 kA and current up to 125 A; high energy and current limiting capacities during short circuit.

Perfect solution for **data center, hospital, telecom, railway** and several **industrial** applications.



Direct current and high voltage range

For DC applications, with S800UC up to 50kA in 1000 VDC, and S800PV up 1500 VDC covering also requirements for photovoltaic. High voltage in AC with S800HV up 1000 VAC

Perfect solution for DC protection in **renewables, batteries, UPS, traction and marine, power conversion system in HV**



UL 489 range

Specific range compliant to UL 489 standard, meeting requirements for installation in US.

Available in **standard version, UC and PV** series covering different applications requiring UL standard.



Accessories

Compatible with a wide range of accessories, upgrading the installation by adding extra features and functions to the product.

For a better monitoring and control of the installation



Product at a glance

Product Marking

Main technical features printed on front and lateral side

QR code

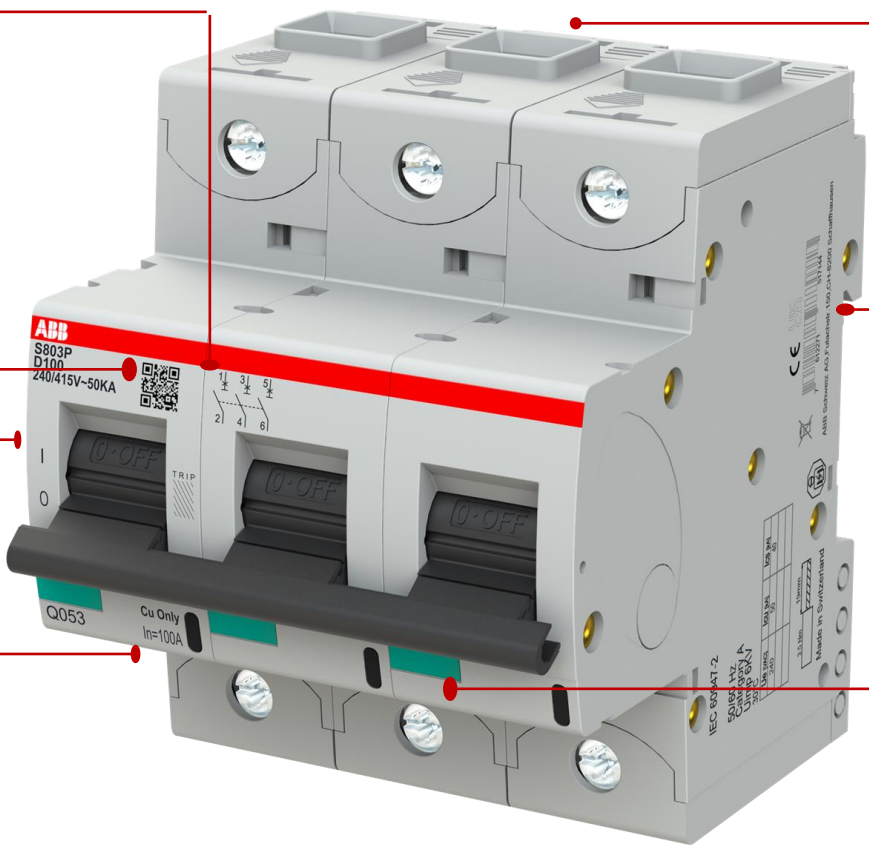
Quick access to ABB product page with all product details and relevant documentation

Toggle Position Indication (TPI)

3 status ON-OFF-TRIP with TRIP position in the middle, easily identifying tripping cause due to overcurrent

Compatible with a wide range of accessories

Upgrading the installation adding extra features and functions to the product



Interchangeable terminals

Easy change from failsafe cage terminals to ring-lug terminals, guaranteeing the highest flexibility in the installation. Supply from top or bottom side

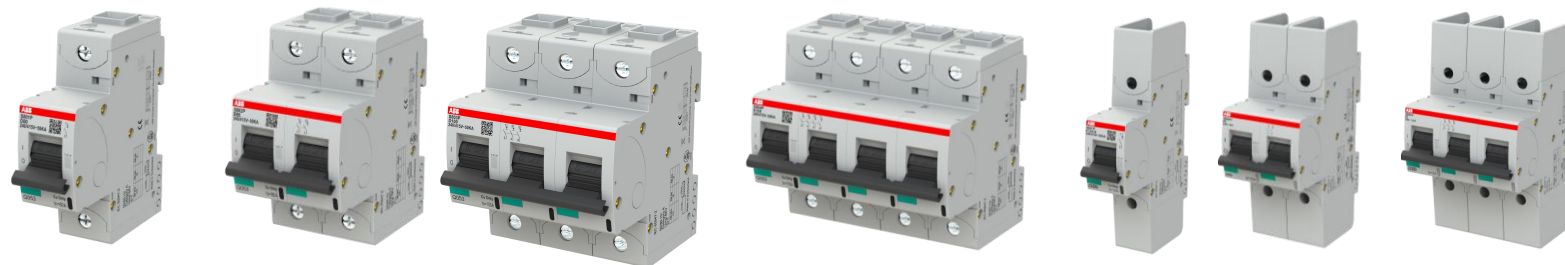
Performant plastic material

Designed with plastic materials to satisfy fire and smoke requirements in traction applications: R26/HL3; R22/HL2 acc. to EN45545-2 standard, V0 acc. to UL94 standard.

Contact Position Indication (CPI)

Green-red window for a clear visualization of the device status

S800 series overview



IEC 60947-2



UL 489

S800P 50 kA; 80, 100, 125 A

S800S 50 kA; 0.5 ... 63 A

S800N 36 kA; 6 ... 63 A

S800C 25 kA; 10 ... 63 A

S800B 16 kA; 32 ... 63 A

Direct Current

S800S-UC

Up to 1000 VDC; 50 kA; 0.5 ... 125 A
Non polarized for DC applications

Direct current and photovoltaic

S800PV

Up to 1500 VDC; 5 kA; 5 ... 125 A
Non polarized DC and specific
standard for PV applications,
including switch disconnecter (SD)
version

High voltage AC

S800HV

Up to 1000 VAC; 4 kA; 0.5 ... 125 A
For high voltage AC applications

S800U

50 kA; 10 ... 100 A

Direct current

S800U-UC

Up to 600 VDC;
10 kA; 10 ... 80 A
Non polarized DC

Photovoltaic

S800U-PV

Up to 1500 VDC;
3 kA; 5 A
Non polarized DC

S800 accessories range

S800-AUX



Auxiliary Contact

S800-AUX/ALT



Auxiliary + Signal Contact

S800-SOR



Shunt Opening Release

S800-RSU



Remote Switching Unit

S800-SCL-SR



Self-resetting Short Circuit
Limiter

S800-UVR



Undervoltage Release

S800-NT



Disconnectable Neutral

DDA 800



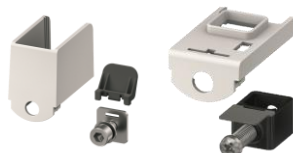
RCD Block

S800-RD



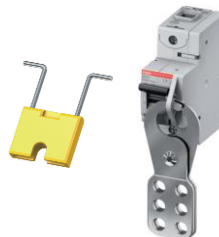
Rotary Drive

S800-RT/CT



Interchangeable Terminal adapters

S800-PLL



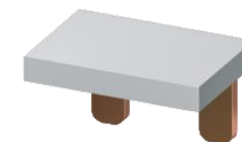
Padlock

S800-BB



S800 Busbar System

S802-LINK



Pole Connector

CMS

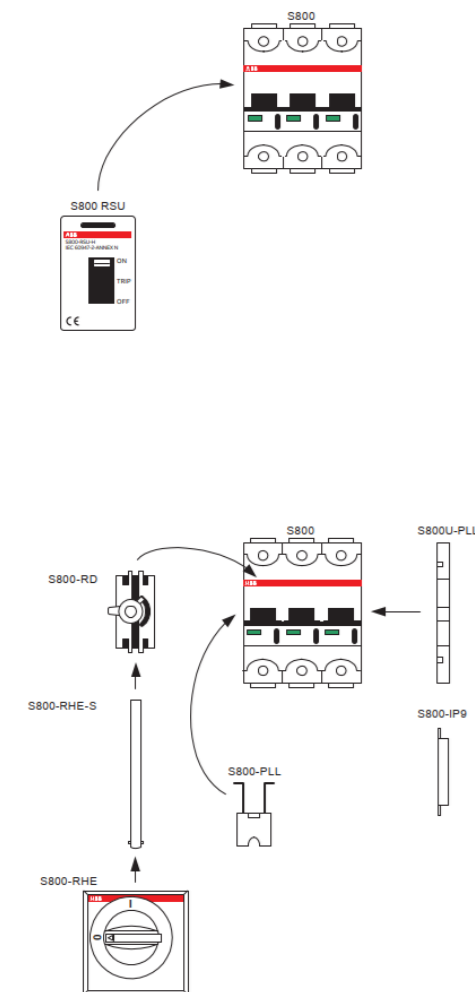
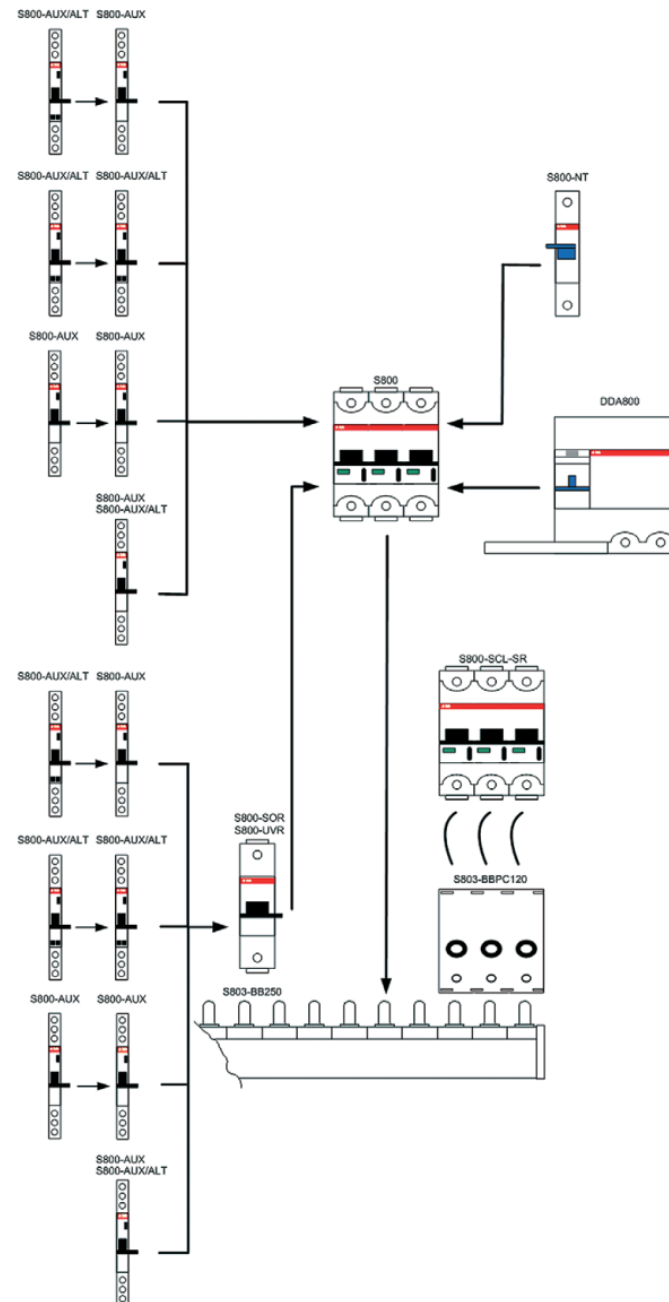


CMS Sensor

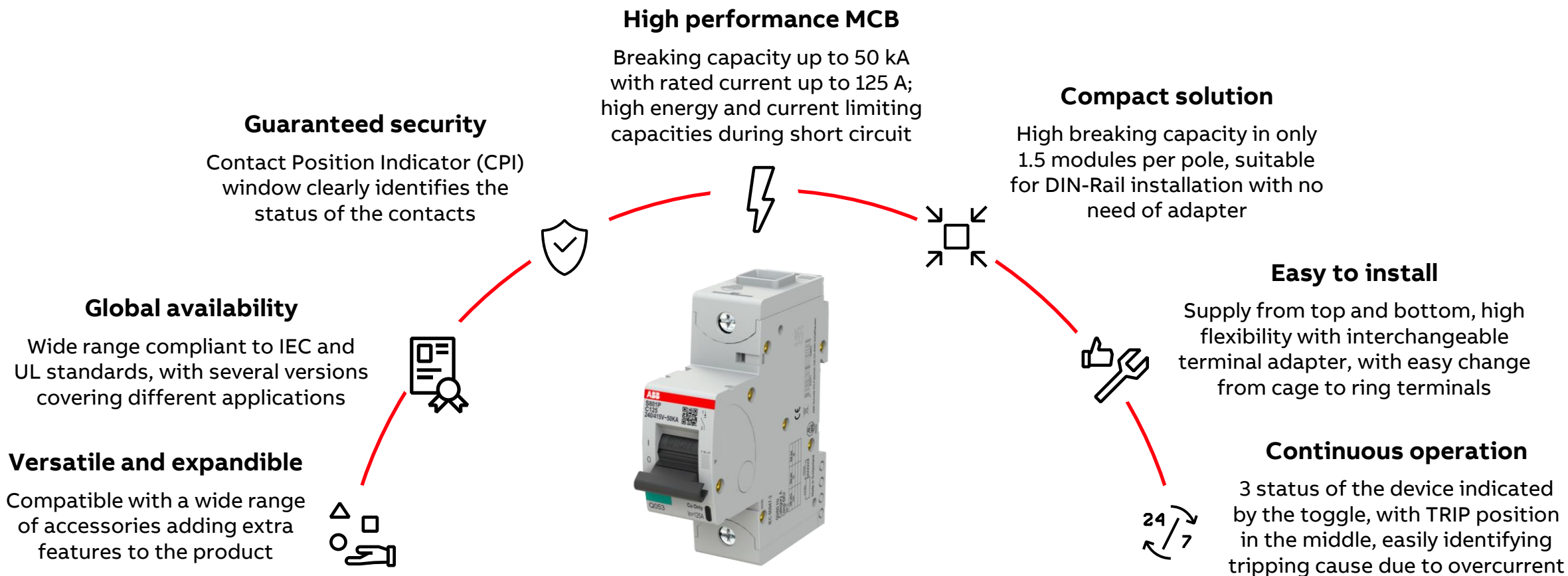
Wide set of accessories adding extra features and functionalities to the product

S800 accessories scheme

S800-AUX	Auxiliary contact for external display
S800-AUX/ALT	Combined auxiliary and signal contact for the external display
S800-NT	Disconnectable neutral conductor 63A
S800-SOR	Shunt opening release
DDA800	RCD block
S803-BB	Busbar system
S800RD	Rotary drive
S800-RHE	Rotary handle
S800-IP	Intermediate piece
S800-PLL/S800U-PLL	Padlock device/Locking device for American market
S800-UVR	Undervoltage release
S800-SCL-SR	Short-circuit current limiter self resetting
S800-RSU	Remote switching unit (motor operating device)



S800 value proposition



Compact, reliable and high performing: unbeatable short circuit performances for a complete protection

S800 benefits

Installer / PB / OEM

Reduced installation time



Easy to install product with supply from top or bottom; maximum flexibility with easy change from cage to ring terminals

Space saving



Compact solution fitting DIN-Rail installation: extreme performant MCB in only 1.5 module width

Guaranteed protection



Complete protection against overcurrent on several applications up to 50 kA and 125 A

Distributor

Wide selection



Several versions available covering customer needs in different applications

Guaranteed quality



Certified range acc. to UL and IEC standards with different quality approvals

Consultant

Reduced complexity in specification

High performances and wide series makes the S800 the perfect solution to protect different applications with the same product.



Full set of data available

High energy and current limiting capacities during short circuit

Total selectivity reached when combined with upstream MCCB XT3/XT4/XT5. Enhanced back-up protection provided to downstream MCBs.

Operator / Technician

Increased uptime



Easy identification of tripping cause due to overcurrent thanks to TRIP position status with toggle in the middle

Guaranteed security



Safe maintenance operations thanks to Contact Position Indicator (CPI) window clearly identifying the status of the contacts

Complete control



Monitoring of the installation thanks to compatibility with a wide set of accessories making possible remote monitoring and operations

The right product for every applications



Data centers

S800 P/S/N/C
S800U

Railway

S800 P/S/N
S800S-UC



With possibility to use ring-lug



Renewables, power conversion systems

S800PV
S800HV
S800U-PV



S800 High performance MCB



Industries and buildings, Telecom, hospital, pharmaceutical, naval

S800 P/S/N/C/B
S800S-UC
S800U

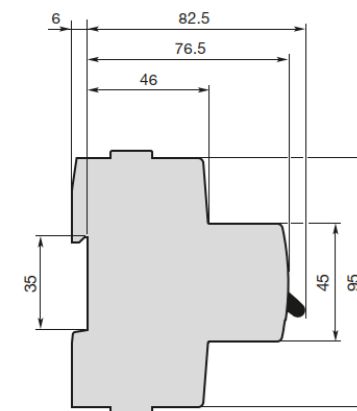
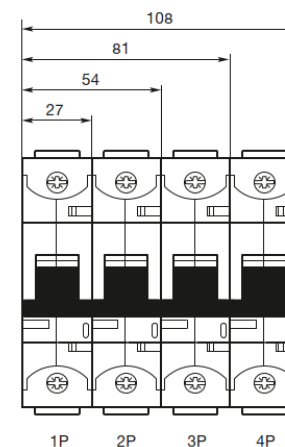


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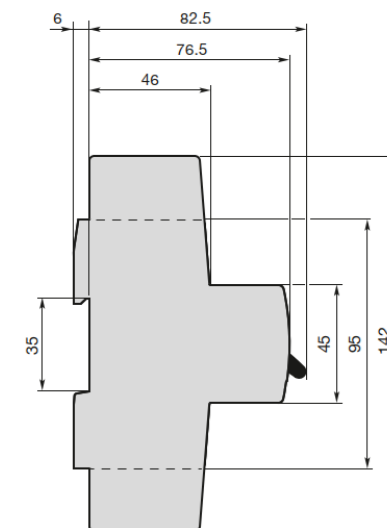
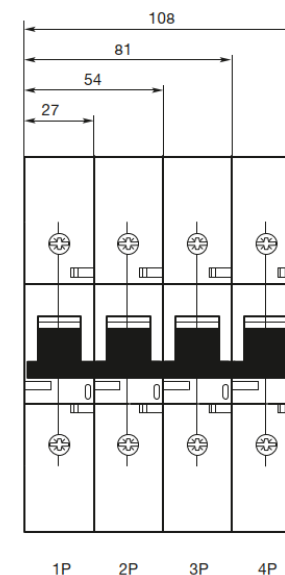
TECHNICAL FEATURES

General technical data

- **Module width per pole 27 mm**
- **Pole weight 240 g**
- High short circuit capacity up to 50 kA, thanks to an advanced-designed **double arcing chamber system**, with two arc chambers per pole (except for S800B)
- **Energy and current limiting technology**: reducing let-through energy and I peak current during short circuit guaranteeing maximum safety in the installation
- Operating temperature **-40...+70 °C (-25....+60 °C for UL 489 ranges)**
- Supply possible from top and bottom terminals, available in **cage and ring-lug version**
- Cage terminal connection capacity:
 - **1...50 mm² flexible**
 - **1...70 mm² rigid / stranded**
- **CPI window** below the toggle (except for UL 489 ranges)
- 3 status toggle: **OFF – ON – TRIP**
- **Compatible with several accessories**
- Multipole 125A versions equipped with a lateral cover, increasing the total width of 9mm. The covers can be removed if the S800 is installed next to other devices; is coupled with accessories; is installed in a cabinet with frontal panel making not accessible the lateral sides when the device is under operation.

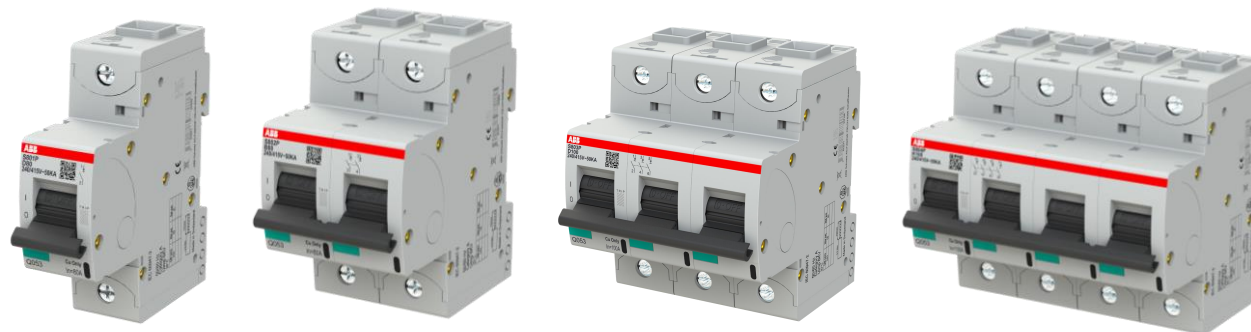


Standard version



Ring-lug version

Standard range



Series	Poles	Rated ultimate short circuit capacity Icu acc. to IEC/EN 60947-2	Icu @ rated voltage	Rated current	Tripping Characteristic	IEC/EN 60947-2	IEC/EN 60898-1	UL 1077	Compatible with accessories
S800P	1, 2, 3, 4	50 kA	240/415 VAC (1P / multi pole)	80, 100, 125 A	B, C, D, K	x		x	• Signal and auxiliary contact: S800-AUX, S800 AUX/ALT • Shunt trip: S800-SOR • Undervoltage release: S800-UVR • Remote switching unit (motor operating device): S800-RSU • Short-circuit current limiter self-resetting: S800-SCL-SR • RCD block: DDA800 up to 100A • Disconnectable neutral conductor: S800-NT • Rotary drive and handle: S800RD / S800-RHE
S800S	1, 2, 3, 4	50 kA		0.5...63 A	B, C, D, K	x	x	x	
S800N	1, 2, 3, 4	36 kA		6...63 A	B, C, D	x	x		
S800C	1, 2, 3, 4	25 kA		10...63 A	B, C, D, K	x	x	x	
S800B	1, 2, 3, 4	16 kA		32...63 A	B, C, D, K	x	x		
S800S-KM (Magnetic only)	3	50 kA		10...80 A	KM	x			

- S800S and S800P available in two versions: with standard cage terminals and with ring-lug terminals (**S800P-R** and **S800S-R**).
- S800S available in dedicated version with only magnetic protection: **S800S-KM**. Ideal solution for motor protection, reducing risk of tripping due to high inrush currents.
- UL 1077 on S800 available only for 80, 100 A
- S800B in phase out during 2025: Obsolete from October



Standard range

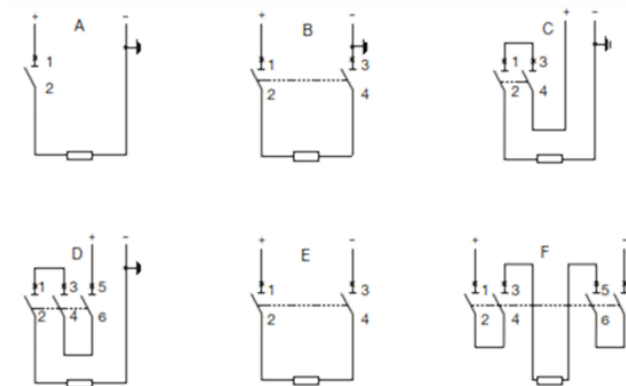
Additional breaking capacity performances acc. to IEC/EN 60947-2

Rated ultimate short circuit capacity I_{cu} acc. to IEC/EN 60947-2	S800P	S800S	S800N	S800C	S800B
AC (1P / Multi pole)	- AC 240/415 V = 50kA - AC 254/440 V = 30 kA - AC 289/500 V = 15 kA (80 A) - AC 289/500 V = 10 kA (100...125 A) - AC 400/690 V = 6 kA (80 A) - AC 400/690 V = 4.5 kA (100...125 A)	- AC 240/415 V = 50kA - AC 254/440 V = 30 kA - AC 289/500 V = 15 kA - AC 400/690 V = 6 kA	- AC 240/415 V = 36 kA - AC 254/440 V = 20 kA - AC 289/500 V = 10 kA - AC 400/690 V = 4.5 kA	- AC 240/415 V = 25 kA - AC 254/440 V = 15 kA	AC 230/400 V = 16 kA
DC	- DC 125 V (1-pole) = 30 kA - DC 250 V (2-pole) = 30 kA - DC 375 V (3-pole) = 30 kA - DC 500 V (4-pole) = 30 kA	- DC 125 V (1-pole) = 30 kA - DC 250 V (2-pole) = 30 kA - DC 375 V (3-pole) = 30 kA - DC 500 V (4-pole) = 30 kA	- DC 125 V (1-pole) = 20 kA - DC 250 V (2-pole) = 20 kA - DC 375 V (3-pole) = 20 kA - DC 500 V (4-pole) = 20 kA	- DC 125 V (1-pole) = 10 kA - DC 250 V (2-pole) = 10 kA - DC 375 V (3-pole) = 10 kA - DC 500 V (4-pole) = 10 kA	- DC 75 V (1-pole) = 10 kA - DC 150 V (2-pole) = 10 kA - DC 225 V (3-pole) = 10 kA - DC 300 V (4-pole) = 10 kA

- Series suitable for installation at high voltages reducing the rated breaking capacity as in the table
- Series suitable also for installation in DC application, **Non-polarized device**, with connection possible without considering positive and negative poles, either from top or bottom side

S800P, S800S, S800N, S800C

Graphic	Short-circuit between output terminals	Contact to ground between output terminals and - earth
A	125 VDC	125 VDC
B	250 VDC	125 VDC
C	250 VDC	250 VDC
D	375 VDC	375 VDC
E	250 VDC	125 VDC (double failure)
F	500 VDC	125 VDC (double failure)



Standard range

Additional breaking capacity performances acc. to IEC/EN 60947-2

Rated service short circuit capacity Ics acc. to IEC/EN 60947-2		S800P	S800S	S800N	S800C	S800B
Ics	AC (1P / Multi pole)	AC 240/415 V = 40 kA	- AC 240/415 V = 40 kA - AC 254/440 V = 22.5 kA - AC 289/500 V = 11 kA - AC 400/690 V = 4 kA	- AC 240/415 V = 30 kA - AC 254/440 V = 15 kA - AC 289/500 V = 8 kA - AC 400/690 V = 3 kA	- AC 240/415 V = 25kA - AC 254/440 V = 10 kA	AC 230/400 V = 10 kA
	DC		- DC 125 V (1-pole) = 30 kA - DC 250 V (2-pole) = 30 kA - DC 375 V (3-pole) = 30 kA - DC 500 V (4-pole) = 30 kA	- DC 125 V (1-pole) = 20 kA - DC 250 V (2-pole) = 20 kA - DC 375 V (3-pole) = 20 kA - DC 500 V (4-pole) = 20 kA	- DC 125 V (1-pole) = 10 kA - DC 250 V (2-pole) = 10 kA - DC 375 V (3-pole) = 10 kA - DC 500 V (4-pole) = 10 kA	

Standard range

Breaking capacity performances acc. to IEC/EN6089-1

Icn
Ics

	rated voltage	S800S	S800N	S800C	S800B
Icn Rated short circuit capacity Icn acc. to IEC/EN 60898-1	230/400 VAC (1P / multi pole)	25 kA	20 kA	15 kA	10 kA
Ics Rated service short circuit capacity Ics acc. to IEC/EN 60898-1		12.5 kA	10 kA	7.5 kA	7.5

- S800S, S800N, S800C, S800B are fully compliant to IEC/EN 60898-1 with above performances
- S800P is only internally tested acc. to IEC/EN 60898-1, with Icn 25 kA for 80 A and 15 kA for 100-125 A

Standard range

Breaking capacity performances acc. to UL 1077

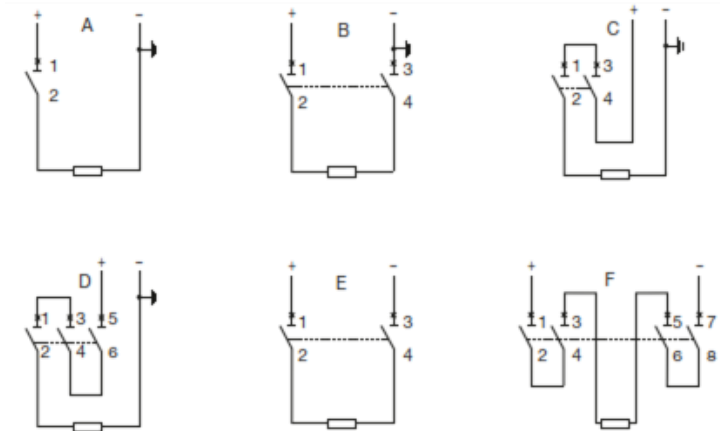
Interrupting rating acc. to UL 1077	S800P only for 80-100 A	S800S	S800C
AC	- AC 240 V = 20kA - AC 277 V = 10kA	1P - AC 240 V = 30 kA - AC 277V = 14 kA - AC 347 V = 6 kA 2/3/4 P - AC 240 V = 30 kA - AC 480Y/277 = 14 kA - AC 600Y/347 = 6 kA	- AC 240 V = 20kA - AC 277 V = 10kA
DC	- DC 125 V (1-pole) = 10 kA - DC 250 V (2-pole) = 10 kA - DC 375 V (3-pole) = 10 kA - DC 500 V (4-pole) = 10 kA		- DC 125 V (1-pole) = 10 kA - DC 250 V (2-pole) = 10 kA - DC 375 V (3-pole) = 10 kA - DC 500 V (4-pole) = 10 kA

Direct current: UC range

Series	Poles	Rated ultimate short circuit capacity I _{cu} acc. to IEC 60947-2	Rated current	Tripping Characteristic	IEC/EN 60947-2	Compatible with accessories
S800S-UC	1, 2, 3, 4	1P: 50 kA at 250 VDC 2P: 50 kA at 500 VDC 3P: 50 kA at 750 VDC 4P: 50 kA at 1000 VDC up to 50A; 50 kA at 750 VDC above 50A	0.5...125 A	UC-B; UC-K	x	Signal and auxiliary contact: S800-AUX, S800 AUX/ALT Shunt trip: S800-SOR Undervoltage release: S800-UVR Remote switching unit (motor operating device): S800-RSU Short-circuit current limiter self-resetting: S800-SCL-SR RCD block: DDA800 up to 100A Disconnectable neutral conductor: S800-NT Rotary drive and handle: S800RD / S800-RHE

- Non-polarized device**, with connection possible without considering positive and negative poles, either from top or bottom side

Graphic	Short-circuit between output terminals	Contact to ground between output terminals and - earth
A	250VDC	250VDC
B	500VDC	250VDC
C	500VDC	500VDC
D	750VDC	750VDC
E	500VDC	250VDC (double failure)
F	750 V DC / 1000 V DC	500VDC (double failure)



- Available in two versions: with standard cage terminals and with ring-lug terminals (**S800S-UC-R**)

Direct current: UC range

Additional breaking capacity performances



I_{cs}

Rated service short circuit capacity I _{cs} acc. to IEC 60947-2	S800S-UC
DC	• DC 250 V (1-pole): 50kA up to 100A; 20kA for 125A • DC 500 V (2-pole): 50kA up to 100A; 20kA for 125A • DC 750 V (3-pole): 50kA up to 100A; 20kA for 125A • DC 750 V (4-pole): 50kA from 63...100A; 20kA for 125A • DC 1000V (4-pole): 50kA up to 50A

Direct current: Photovoltaic (PV) range

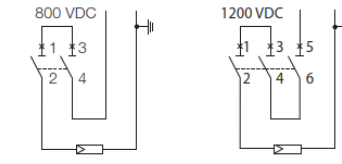
Series	Poles	Rated ultimate short circuit capacity Icu	Icu @ rated voltage	Rated current	Tripping Char	IEC/EN 60947-2 and Annex P	IEC/EN 60947-3 and Annex D	Utilization category	Compatible with accessories
S800PV-SP	2, 3, 4	5...16 A: 5kA acc IEC 60947-2 Annex P 20...125 A: 5kA acc IEC 60947-2 Annex P 20...125 A: 3kA acc IEC 60947-2 Annex P	2P: 800 VDC 3P: 1200 VDC 4P: 1500 VDC	5...125 A	SP	x	-	-	- Signal and auxiliary contact: S800-AUX, S800 AUX/ALT - Shunt trip: S800-SOR - Undervoltage release: S800-UVR - Remote switching unit (motor operating device): S800-RSU - Rotary drive and handle: S800RD / S800-RHE
S800PV-SD	2, 3, 4	Icw: 1.5 kA (Switch disconnecter)	2P: 800 VDC 3P: 1200 VDC 4P: 1500 VDC	32, 63, 125 A	-	-	x	DC-21A DC-PV2	
S800PV-MH	2	Icw: 1.5 kA (Polarized switch disconnecter)	1000 VDC	32, 63, 100 A	-	-	x	DC-21A	

- S800PV-SP: non-polarized S800** with the highest voltage in DC. Compliant to IEC/EN 60947-2 and Annex P with requirements specific for PV. It is the perfect solution for general DC applications up to 1500 VDC and ideal for protection and control of photovoltaic strings.
- S800PV-SD: non-polarized switch disconnecter** up to 1500 VDC, ideal for DC side isolation for PV systems.
- S800PV-M-H: polarized switch disconnecter** up to 1000 VDC, to meet the requirements for PV systems

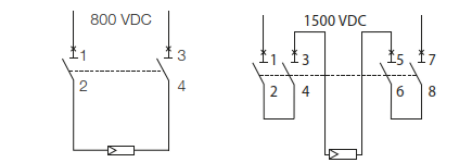
- Ics equals to Icu for S800PV-SP

Exemplary circuit diagrams

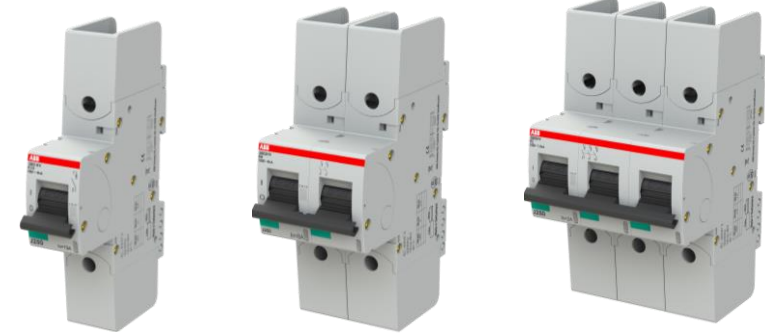
Earthed network



Non-earthed network



High Voltage: HV range

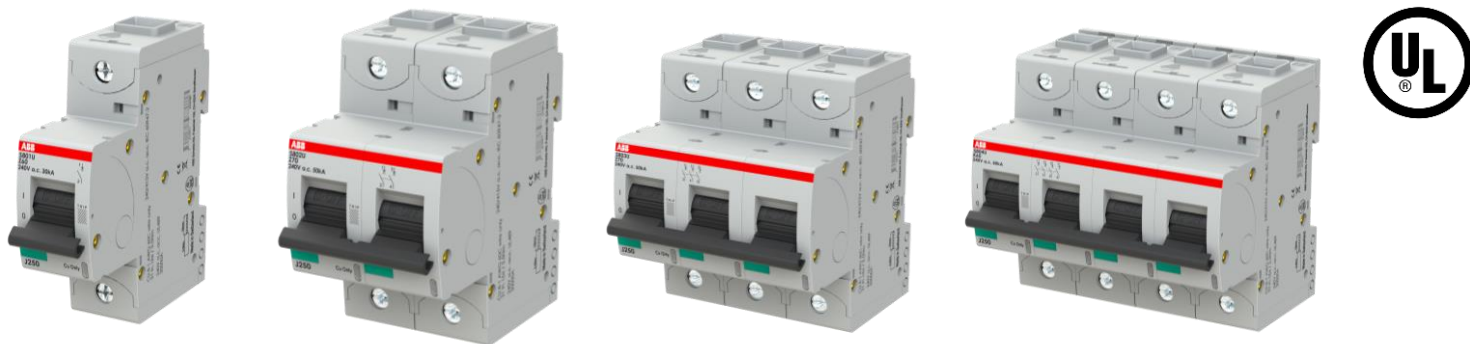


Series	Poles	Rated ultimate short circuit capacity Icu acc. to IEC 60947-2	Icu @ rated voltage	Rated current	Tripping Characteristic	IEC/EN 60947-2	UL 1077	Compatible with accessories
S800HV	1, 2, 3	0.5...5 A: 1.5 kA 6...63 A: 4 kA 80...125 A: 3 kA	580/1000 VAC	0.5...125 A	C, K	x	x	Signal and auxiliary contact: S800-AUX, S800 AUX/ALT Shunt trip: S800-SOR Undervoltage release: S800-UVR Remote switching unit (motor operating device): S800-RSU Short-circuit current limiter self-resetting: S800HV-SCL-SR Rotary drive and handle: S800RD / S800-RHE

- Increase voltage level up to 1000 VAC, enabling high power installation reducing the current level
- Barrier present on the terminal acc. to product standard due to high voltage
- Compatible with dedicated version of short circuit current limiter self-resetting unit **S803HV-SCL-SR**, enhancing Icu of the combined solution up to 16 kA
- UL 1077 available only for 3P version in the range 10...32 A with rated voltage 600Y/347

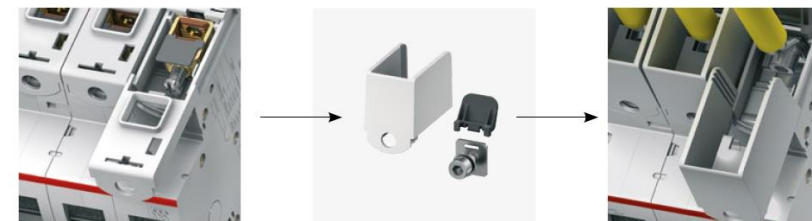
Rated service short circuit capacity Ics acc. to IEC 60947-2	S800HV
AC	0.5...5 A: 1.5 kA 6...63 A: 2.5 kA 80...125 A: 2 kA

UL 489 range



Series	Poles	Stand alone interrupting rating acc. to UL 489	Rated voltage	Rated current	Tripping Char	UL 489	Compatible with accessories
S800U	1, 2, 3, 4	1P: 30 kA 2/3/4P: 50 kA	240 VAC	10...100 A	K, Z	x	Signal and auxiliary contact: S800-AUX, S800 AUX/ALT Shunt trip: S800-SOR Undervoltage release: S800-UVR Remote switching unit (motor operating device): S800-RSU Rotary drive and handle: S800RD / S800-RHE

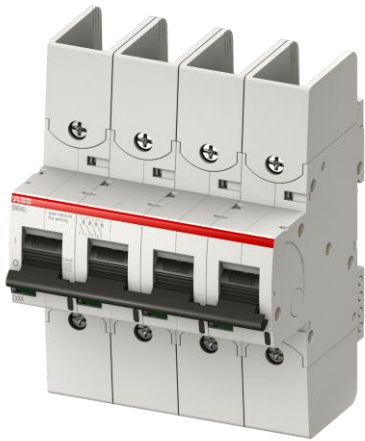
- Range UL 489 approved covering needs of US market
- Easy change from failsafe cage terminals to ring lug terminals, guaranteeing the highest flexibility in the installation.
- S800U internally tested acc. to IEC/EN 60947-2, @ 240/415 V, with Icu:
 - 30 kA for 1P (240V)
 - 50 kA for multi pole (415V)



UL 489 range direct current: UC range

Series	Poles	Stand alone interrupting rating acc. to UL 489	Rated voltage	Rated current	Tripping Char	UL 489	Compatible with accessories
S800U-UC	4	10 kA	600 VDC	10...80 A	UCZ	x	• Signal and auxiliary contact: S800-AUX, S800 AUX/ALT • Shunt trip: S800-SOR • Undervoltage release: S800-UVR • Remote switching unit (motor operating device): S800-RSU • Rotary drive and handle: S800RD / S800-RHE

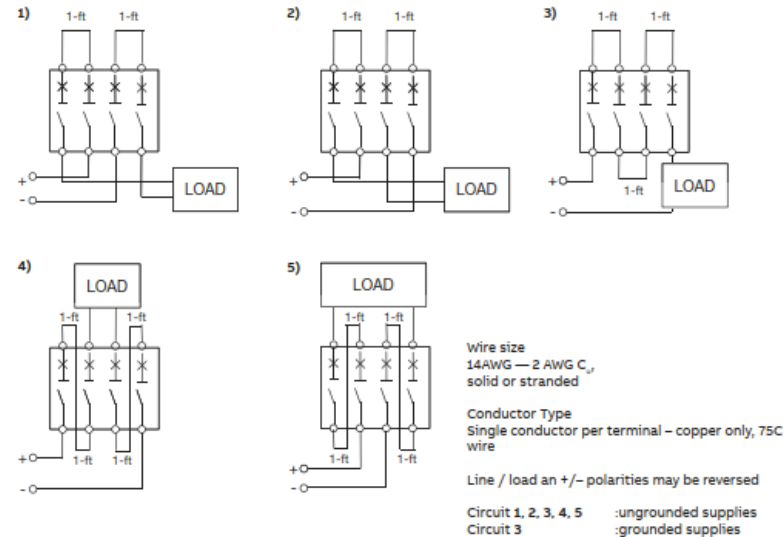
- Range UL 489 approved covering needs of US market for DC applications up to 600 VDC
- Barrier present on the terminal acc. to product standard due to high voltage



UL 489 range photovoltaic (PV)

Series	Poles	Stand alone interrupting rating acc. to UL 489	Rated voltage	Rated current	Tripping Char	UL 489	Compatible with accessories
S800U-PVS	4	3 kA	1000 VDC	5 A	S	x (UL 489b) Listed	Signal and auxiliary contact: S800-AUX, S800 AUX/ALT Shunt trip: S800-SOR Undervoltage release: S800-UVR Remote switching unit (motor operating device): S800-RSU Rotary drive and handle: S800RD / S800-RHE
S800U-PVSP	4	3 kA	1500 VDC	5 A	SP	x (UL 489b) Recognized	

- GFDI (Ground Fault Detector Interrupter) for installation in the grounded DC connection of the inverter for protection against ground-faults in solar inverters
- Barrier present on the terminal acc. to product standard due to high voltage

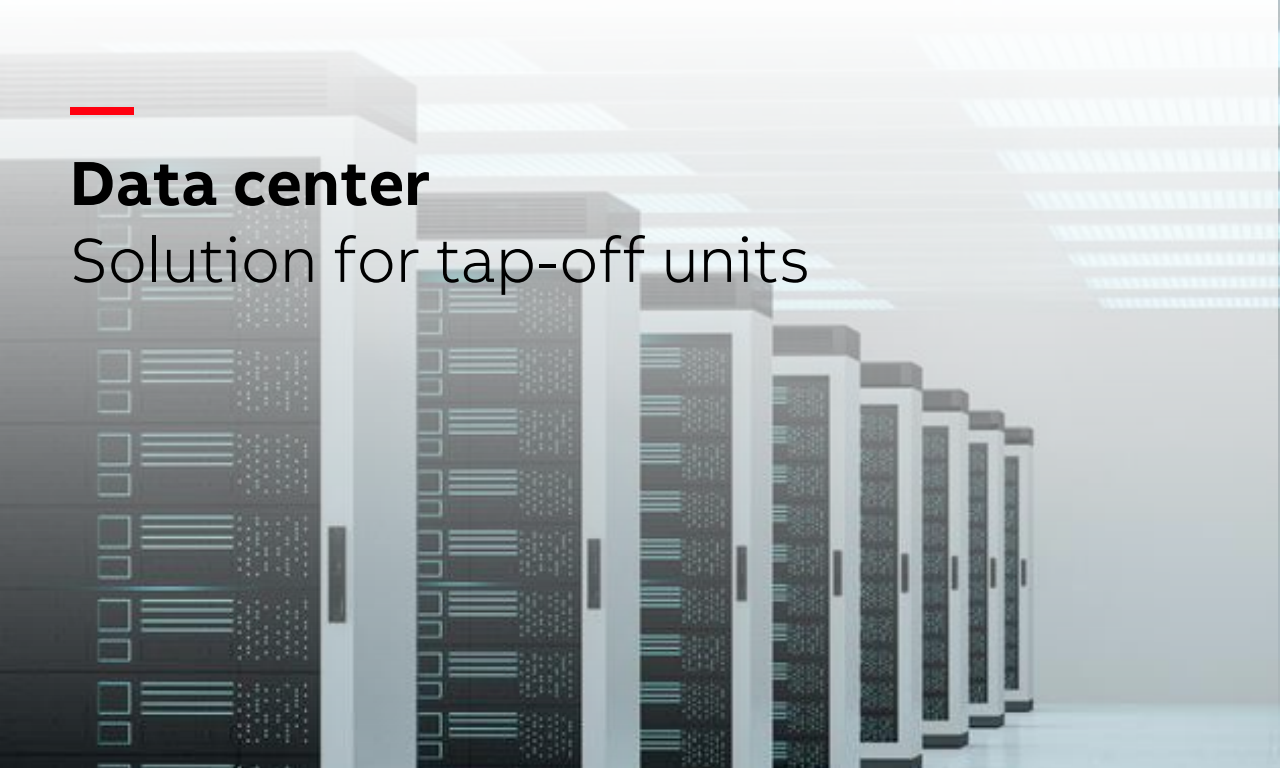


03

APPLICATIONS IN DATA CENTERS

Data center

Solution for tap-off units



Busway system



Tap-off unit

A **Busway**, also known as a Busbar Trunking System, is a modular electrical power distribution system that uses **copper or aluminum busbars enclosed in a protective casing**. Unlike traditional cable-based systems, busways allow for flexible, overhead or underfloor power distribution with the ability to **tap into power at multiple points using plug-in units**.

- **Feeder Unit:** installed at the beginning of the length of busway as entry point.
- **Tap-off unit:** mechanically and electrically interlocked to the encased busway, fitting protection devices as S800 to protect rack PDU feeding the IT servers inside the server racks.



High-density current capacity

Supports high current up to 1000 A and high voltage level, ideal for modern high density load datacenter with AI servers



Superior scalability and flexibility

Plug-in tap-off units allow for easily add, move, or reconfigure power connections without rewiring



Fast installation

Pre-fabricated modular components reduce installation time compared to traditional cables



Space-efficient

Frees up white space by routing power above racks or beneath raised floors.

S800 High Performance Circuit Breaker

S800 Range

The S800 range is a high-performance circuit breaker designed for busway tap-off units, providing complete protection for high-power density server racks. It offers exceptional short circuit performance up to 50kA with a rated current of up to 125A, all within a compact 1.5 module width per pole. The S800 is compatible with various accessories for remote monitoring and control, including signal and auxiliary contacts for device status and a shunt trip unit for remote circuit opening.

KEY BENEFITS

High performance:

Breaking capacity up to 50kA with a rated current of 125A. Two arc chambers per pole limit let-through energy and I-peak current during a short circuit.

Compact solution:

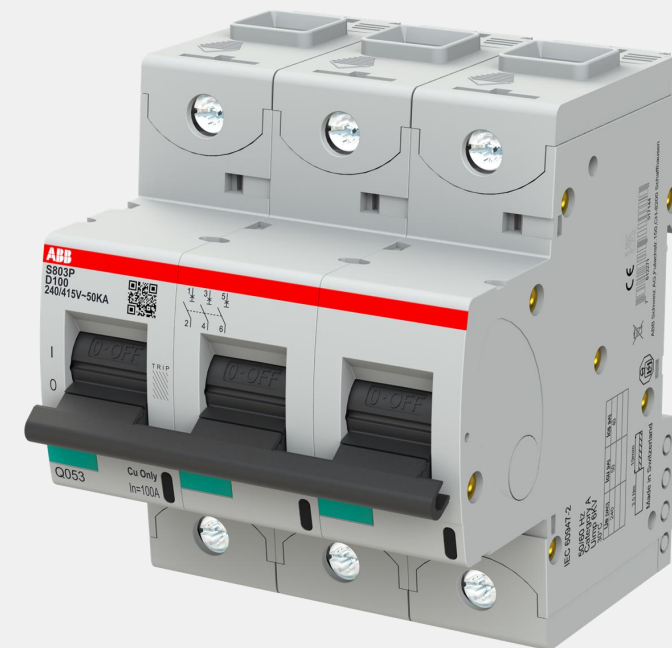
Reliable and high-performing solution available in just 1.5 module size, suitable for DIN-Rail installation

Versatile and expandable:

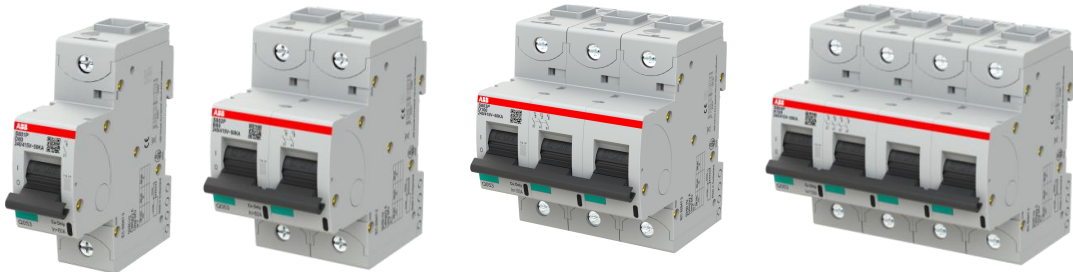
Compatible with a wide set of accessories for remote monitoring and controlling of the installation.

Global availability:

Full range of MCBs and accessories compliant to main IEC and UL international standards



S800 offer for data center

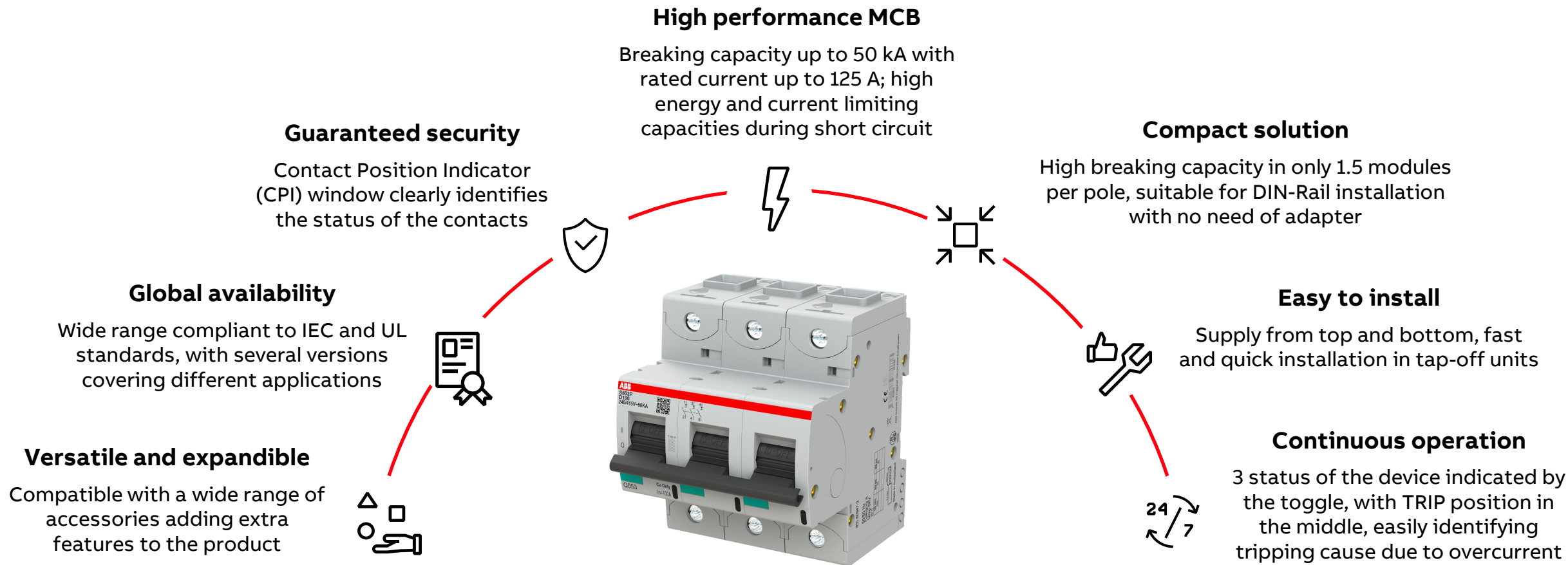


Series	Poles	Rated ultimate short circuit capacity Icu acc. to IEC/EN 60947-2	Icu @ rated voltage	Rated current	Tripping Characteristic	IEC/EN 60947-2	IEC/EN 60898-1	UL 1077	Compatible with accessories
S800P	1, 2, 3, 4	50 kA	240/415 VAC	80, 100, 125 A	B, C, D, K	x		x	• Signal and auxiliary contact: S800-AUX, S800 AUX/ALT • Shunt trip: S800-SOR • Undervoltage release: S800-UVR • Remote switching unit (motor operating device): S800-RSU • Short-circuit current limiter self-resetting: S800-SCL-SR • RCD block: DDA800 up to 100A • Disconnectable neutral conductor: S800-NT • Rotary drive and handle: S800RD / S800-RHE
S800S	1, 2, 3, 4	50 kA		0.5...63 A	B, C, D, K	x	x	x	
S800N	1, 2, 3,4	36 kA		6...63 A	B, C, D	x	x		
S800C	1, 2, 3, 4	25 kA		10...63 A	B, C, D, K	x	x	x	



Series	Poles	Stand alone interrupting rating acc. to UL 489	rated voltage	Rated current	Tripping Char	UL 489	Compatible with accessories
S800U	1, 2, 3, 4	• 1P: 30 kA • 2/3/4P: 50 kA	240 VAC	10...100 A	K, Z	x	• Signal and auxiliary contact: S800-AUX, S800 AUX/ALT • Shunt trip: S800-SOR • Undervoltage release: S800-UVR • Remote switching unit (motor operating device): S800-RSU • Rotary drive and handle: S800RD / S800-RHE

S800 value proposition in data center



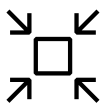
Compact, reliable and high performing: unbeatable short circuit performances for a complete protection of high-power density server racks

Perfect solution for server rack protection



High performance

- Breaking capacity up to 50 kA with rated current up to 125 A makes the device the perfect solution to protect high-power density server rack, requiring reliable protection against overcurrent.
- Two arc chambers per pole limit the let-through energy and I peak current during short circuit, ensuring a complete protection to downstream rack PDU.
- Total selectivity reached when combined with upstream MCCB XT3/XT4/XT5 and enhanced back-up protection provided to downstream MCB
- Range certified according to IEC/EN 60947-2 and UL498.



Compact and easy to install

- Compact solution in only 1.5 module width per pole, perfectly fitting installation inside tap-off unit.
- Easy to install with supply from top or bottom



Complete control of the installation

- Compatibility with a wide set of accessories giving the possibility of remote monitoring and controlling of the installation: signal and auxiliary contact to identify the status of the device, shunt trip unit for remote and controlled fast-opening (needed in case of failure of liquid cooling system)
- Equipped with CMS sensor for current monitoring

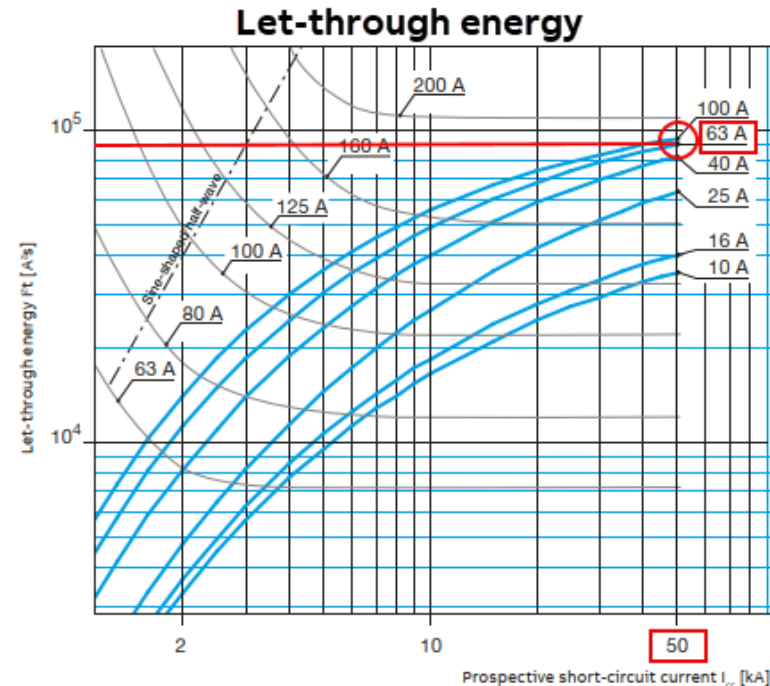
Advantages of S800 in tap-off units

Energy and current limiting features

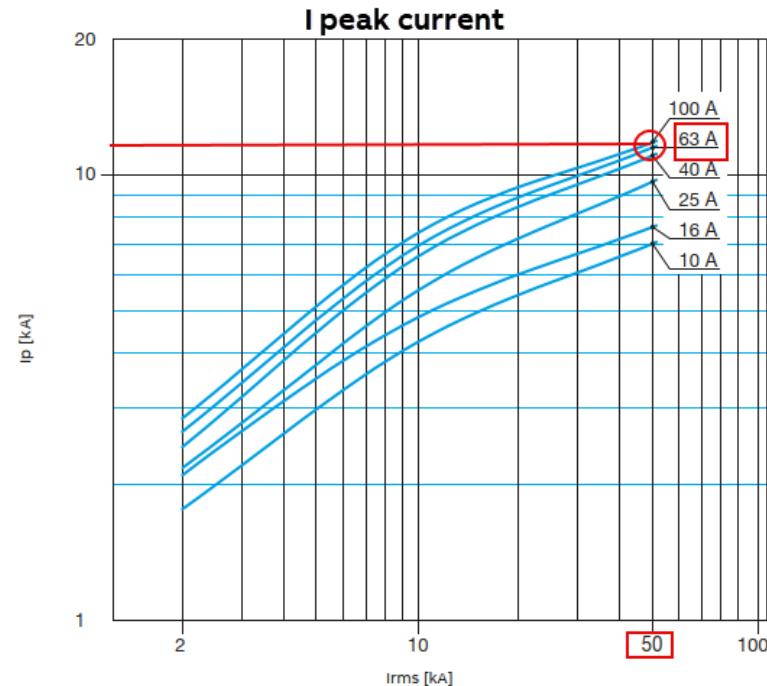
- S800 is specifically designed with two arc chambers per pole, **limiting the let-through energy (I^2t) and peak current (I_{peak}) during short circuits.**
- I_{peak} is the maximum instantaneous fault current that the MCB can withstand during a short-circuit event: this value is crucial to size a circuit, representing the highest current that can flow through the MCB, and consequently to the circuit and downstream equipment, at any given moment during a fault condition.
- **The lower is the I_{peak} , the better protection is provided to sensitive components, as servers inside data center server racks.**
- **Standard IEC 61439-1 for Low-voltage switchgear and control gear assemblies** has a dedicated section 10.11.12 that refers to “circuits of assemblies which are exempted from the verification of the short-circuit withstand strength” that can be considered as reference for **rack PDU installed in data centers**.
This exemption is valid for assemblies protected by current-limiting devices having a **cut-off current (I_{peak}) not exceeding 17 kA.**
- ✓ **All the S800 series satisfy this requirement, with a maximum I_{peak} around 12.5 kA, thus much lower than 17 kA, providing the maximum safety to the installation in whatever condition.**

Example explained in next slide.

S800S energy and current limiting features



- 415 VAC
Highest rated current of the series (63 A)
Highest short circuit value equals to I_{cu} (50 kA)
➤ **MAX Let-through energy around 95000 A²s**



- 415 VAC
Highest rated current of the series (63 A)
Highest short circuit value equals to I_{cu} (50 kA)
➤ **MAX I peak around 12.5 kA**

For rated currents lower than 63 A and short circuit conditions lower than I_{cu} 50 kA, the values of let-through energy and I peak current are lower (refer to complete charts in chapter B of global catalog).

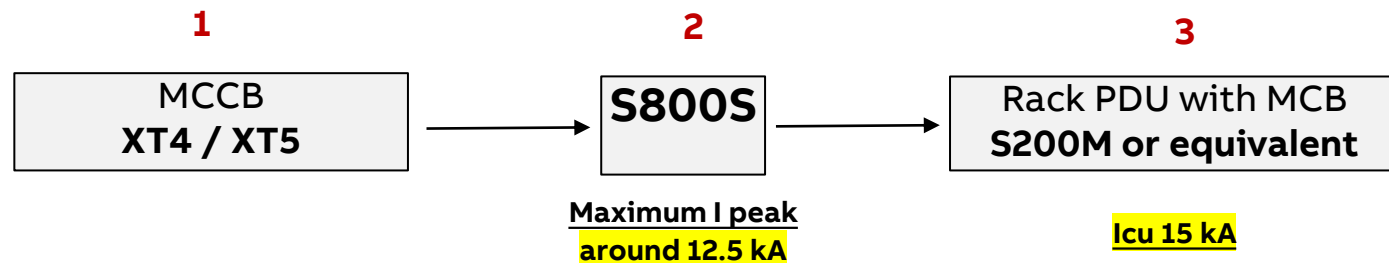
Maximum S800S I peak current around 12.5 kA, lower than 17 kA in whatever condition.

The different I peak values can be derived from the catalog. At 63A, I peak is below 10 kA for short circuit condition up to 25 kA.

Charts from technical section of global catalog

S800S in data center

Recommended installation



1. Upstream incomer **MCCB XT4/XT5** with Icu 50kA or higher → **total selectivity achieved with downstream S800S**
2. Tap-off unit in busway system: **S800S with high-limiting current performances**, protecting downstream rack PDU
3. Rack PDU in server rack: **protected by MCB S200M with Icu 15 kA** (or equivalent), extended to 50kA thanks to back-up performance of upstream S800

If standard IEC 61439-1 is not considered sufficient, but S800S I peak current is compared to Icu of downstream device, the safest condition to consider is:

I peak current of S800S in tap-off unit < Icu of downstream S200M (or equivalent) installed in rack PDU

-  Maximum S800S I peak current around 12.5 kA, lower than S200M Icu 15 kA in whatever condition.
- Condition guaranteed with whatever MCB with Icu 15 kA installed for protection of rack PDU

Inside tap-off units, S800 can be equipped with a wide set of accessories, giving the possibility of remote monitoring and controlling of the installation. In particular:

- **signal and auxiliary contact** to identify the status of the device (S800-AUX; S800-AUX/ALT)
- **shunt trip unit for remote and controlled fast-opening**, needed in case of failure of liquid cooling system, preventing IT server overheating and damaging (S800-SOR)

Main accessories used in tap-off

S800-AUX

Auxiliary contact



- **Display of the operating state of S800**
- Position of the contacts if ON or OFF (without distinguishing if manual or overcurrent tripping)
- 9 mm
- 2 isolated Changeover contacts (CO)
- Mounting on the left

S800-AUX/ALT

Signal / Auxiliary contact



- **Display of the operating state of S800 (AUX) and provide indication if the MCB has tripped due to a failure (SIG)**
- Position of the contacts if ON or OFF (AUX) and indication if the MCB has tripped due to a failure (ALT tripping)
- 9 mm
- 2 changeover contacts (CO): 1 for Aux + 1 for Sig
- Mounting on the left

S800-SOR

Shunt opening release

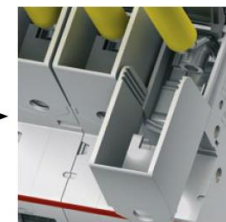
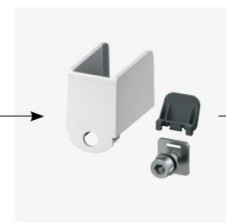


- **Remote release of S800 for a fast and controlled opening of the circuit when required, for example in case of liquid cooling failure**
- Operation guaranteed at a voltage between 70 % and 110 % of the rated mains voltage U_n (AC/DC)
- 27 mm
- Mounting on the left
- Different voltage available

O4

**APPLICATIONS
IN OTHER
SEGMENTS**

Railway



Complete protection in AC and DC

S800P/S/N: up to 50 kA AC with rated current up to 125 A

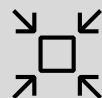
S800S-UC: Non polarized MCB for DC applications, 50kA up to 1000 VDC, with rated current up to 125 A



Guaranteed performances

Designed with plastic materials to satisfy fire and smoke requirements in traction applications: **R26/HL3; R22/HL2 acc. to EN45545-2 standard; V0 acc. to UL94 standard**

Tested according to **IEC 61373** for Rolling stock equipment – Shock and vibration tests, meeting the requirements **Category 1 / Class B**. Working temperature in the range -40....+70°C applying the provided derating.



Compact, flexible and easy to install

Only 1.5 module width, supply from top and bottom, with codes available in **standard cage terminals and with ring-lug terminals** (S800P-R, S800S-R, S800S-UC-R)

Easy change from failsafe cage terminals to ring-lug terminals, using dedicated ring terminals kit guaranteeing the highest flexibility in the installation.

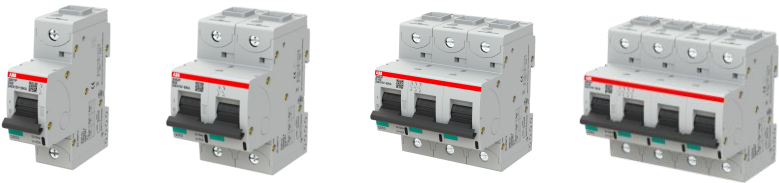


Complete control of the installation

Compatibility with a wide set of accessories give the possibility of remote monitoring and controlling of the installation (sig/aux contact, shunt trip...)

3 status of the device indicated by the toggle, with **TRIP position in the middle**, easily identifying tripping cause due to overcurrent

S800 offer for railway



Series	Poles	Rated ultimate short circuit capacity Icu acc. to IEC 60947-2	Icu @ rated voltage	Rated current	Tripping Characteristic	IEC/EN 60947-2	IEC/EN 60898-1	UL 1077	Compatible with accessories
S800P	1, 2, 3, 4	50 kA	240/415 VAC	80, 100, 125 A	B, C, D, K	x		x	• Signal and auxiliary contact: S800-AUX, S800 AUX/ALT • Shunt trip: S800-SOR • Undervoltage release: S800-UVR • Remote switching unit (motor operating device): S800-RSU • Short-circuit current limiter self-resetting: S800-SCL-SR • RCD block: DDA800 up to 100A • Disconnectable neutral conductor: S800-NT • Rotary drive and handle: S800RD / S800-RHE
S800S	1, 2, 3, 4	50 kA		0.5...63 A	B, C, D, K	x	x	x	
S800N	1, 2, 3, 4	36 kA		6...63 A	B, C, D	x	x		
S800S-UC	1, 2, 3, 4	• 1P: 50 kA at 250 VDC • 2P: 50 kA at 500 VDC • 3P: 50 kA at 750 VDC • 4P: 50 kA at 1000 VDC up to 50A; 50 kA at 750V above 50A	As in previous column	0.5...125 A	UC-B; UC-K	x			

Additional breaking capacity performances

Rated ultimate short circuit capacity Icu acc. to IEC 60947-2	S800P	S800S	S800N
AC	• AC 240/415 V = 50kA • AC 254/440 V = 30 kA • AC 289/500 V = 15 kA (80 A) • AC 289/500 V = 10 kA (100...125 A) • AC 400/690 V = 6 kA (80 A) • AC 400/690 V = 4.5 kA (100...125 A)	• AC 240/415 V = 50kA • AC 254/440 V = 30 kA • AC 289/500 V= 15 kA • AC 400/690 V = 6 kA	• AC 240/415 V = 36 kA • AC 254/440 V = 20 kA • AC 289/500 V = 10 kA • AC 400/690 V = 4.5 kA
DC	• DC 125 V (1-pole) = 30 kA • DC 250 V (2-pole) = 30 kA • DC 375 V (3-pole) = 30 kA • DC 500 V (4-pole) = 30 kA	• DC 125 V (1-pole) = 30 kA • DC 250 V (2-pole) = 30 kA • DC 375 V (3-pole) = 30 kA • DC 500 V (4-pole) = 30 kA	• DC 125 V (1-pole) = 20 kA • DC 250 V (2-pole) = 20 kA • DC 375 V (3-pole) = 20 kA • DC 500 V (4-pole) = 20 kA

S800P-R, S800S-R, S800S-UC-R available also in ring-lug terminals



Renewables and power conversion



Complete protection in AC and DC

- **S800PV-SP**: non polarized MCB up to 1500 VDC, ideal for protection and control of photovoltaic strings
- **S800PV-SD**: non polarized switch disconnecter up to 1500 VDC, ideal for DC side isolation for PV systems
- **S800PV-M-H**: polarized switch disconnecter up to 1000 VDC
- **S800U-PVS**: UL version up to 1000 VDC
- **S800U-PVSP**: UL version up to 1500 VDC
- **S800HV**: Increase voltage level up to 1000 VAC, ideal for installation in AC side of high-power conversion systems (PCS)

Compact, flexible and easy to install

Only 1.5 module width, supply from top and bottom side also for DC series, without the need to consider polarity.

Working temperature in the range **-40...+70°C** applying the provided derating.

Possibility to install up to **5000m above sea level** applying provided derating

Complete control of the installation

Compatibility with a wide set of accessories give the possibility of remote monitoring and controlling of the installation (sig/aux contact, shunt trip...)

Compatible with S800-RSU **Remote Switching Unit**: motor operating device, giving the possibility to switch-off and re-arm the installation remotely in case of specific needs

S800HV compatible with dedicated version of **short circuit current limiter self-resetting** unit S803HV-SCL-SR, **enhancing Icu of the combined solution from 4 kA up to 16 kA**

3 status of the device indicated by the toggle, with **TRIP position in the middle**, easily identifying tripping cause due to overcurrent

S800 offer for renewable



Series	Poles	Rated ultimate short circuit capacity Icu	Icu @ rated voltage	Rated current	Tripping Char	IEC/EN 60947-2 and Annex P	IEC/EN 60947-3 and Annex D	UL 489	Compatible with accessories
S800PV-SP	2, 3, 4	5...16 A: 5kA acc IEC 60947-2 Annex P 20...125 A: 5kA acc IEC 60947-2 20...125 A: 3kA acc IEC 60947-2	2P: 800 VDC 3P: 1200 VDC 4P: 1500 VDC	5...125 A	SP	x			Signal and auxiliary contact: S800-AUX, S800 AUX/ALT Shunt trip: S800-SOR Undervoltage release: S800-UVR Remote switching unit (motor operating device): S800-RSU Short-circuit current limiter self-resetting: S800HV-SCL-SR (only S800HV) Rotary drive and handle: S800RD / S800-RHE
S800PV-SD	2, 3, 4	Icw: 1.5 kA (Switch disconnecter)	2P: 800 VDC 3P: 1200 VDC 4P: 1500 VDC	32, 63, 125 A	-		x		
S800PV-MH	2	Icw: 1.5 kA (Switch disconnecter)	1000 VDC	32, 63, 100 A	-		x		
S800HV	1, 2, 3	0.5...5 A: 1.5 kA 6...63 A: 4 kA 80...125 A: 3 kA	580/1000 VAC	0.5...125 A	C, K	x	x		
S800U-PVS	4	3 kA	1000 VDC	5 A	S			x (UL 489b) Listed	
S800U-PVSP	4	3 kA	1500 VDC	5 A	SP			x (UL 489b) Recognized	

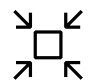
Various industries and buildings



Comprehensive range, compact and easy to install

Different series available; high performance in only 1.5M width; breaking capacity up to 50kA and rated current from 0.5 A up to 125 A. Perfect solution for several applications:

- **Industries** (chemicals and pharmaceutical, food and beverage....)
- **Hospitals**
- **Telecom**
- **Naval**
- **Buildings in general**



Suitable for DC installations

Non polarized MCBs, with connection possible from top or bottom side without considering the polarity. Best choice for protection of batteries, UPS and DC equipment.

- S800S-UC: up to 1000 VDC; 50kA
- S800PV-SD: up to 1500 VDC; 5kA



High performance for complete protection

Good selectivity reached when combined with upstream MCCB and enhanced back-up protection provided to downstream MCBs.

Perfect solution to protect the entire installation

Range certified according to IEC 60947-2 and UL498.



Control of the installation

Compatibility with a wide set of accessories give the possibility of remote monitoring and controlling of the installation (sig/aux contact, shunt trip...)

3 status of the device indicated by the toggle, with TRIP position in the middle, easily identifying tripping cause due to overcurrent



05

ACCESSORIES DETAILS

S800 accessories range

S800-AUX



Auxiliary Contact

S800-AUX/ALT



Auxiliary + Signal Contact

S800-SOR



Shunt Opening Release

S800-RSU



Remote Switching Unit

S800-SCL-SR



Self-resetting Short Circuit
Limiter

S800-UVR



Undervoltage Release

S800-NT



Disconnectable Neutral

DDA 800



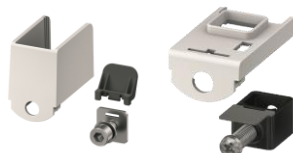
RCD Block

S800-RD



Rotary Drive

S800-RT/CT



Interchangeable Terminal adapters

S800-PLL



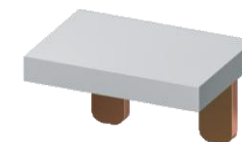
Padlock

S800-BB



S800 Busbar System

S802-LINK



Pole Connector

CMS



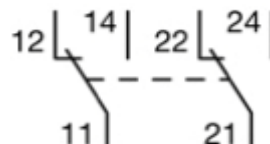
CMS Sensor

Wide set of accessories adding extra features and functionalities to the product

Auxiliary contact

S800-AUX

S800-AUX



- S800 OFF: contacts 11–12 and 21–22 closed
- S800 ON: contacts 11–14 and 21–24 closed

Function:

To display:

Width:

Contacts type:

Mounting:

Test Button:

Standard:

Display of the operating state of S800

Position of the contacts if ON or OFF (without distinguishing if manual or overcurrent tripping)

9 mm

2 isolated Changeover (CO)

Left

Operated by a tool to simulate the function of the aux when switched on without tripping the MCB.

IEC 60947-5-1

AC15 400/2 A, AC15 240/6 A, DC13 250/0.55 A,
DC13 125 V/1.1 A, DC13 60 V/2 A, DC13 24 V/4 A

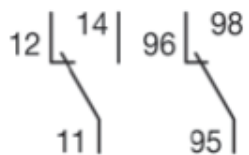
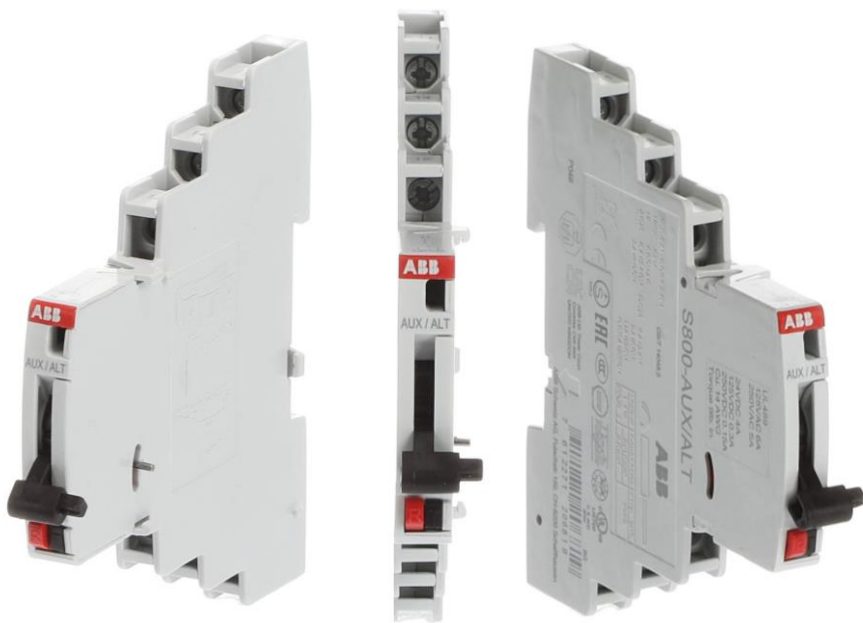
UL 489

125 VAC/6 A, 250 VAC/5 A
24 V DC/4 A, 125 V DC/0.3 A, 250 V DC/0.15 A

Combined Auxiliary and Signal Contact

S800-AUX/ALT

S800-AUX/ALT



- S800 OFF: contacts 11–12 closed
- S800 ON: contacts 11–14 closed
- NO ALT tripping: : contacts 95–96 closed
- ALT tripping: contacts 95–98 closed

Function:

Display of the operating state of S800 (AUX) and provide indication if the MCB has tripped due to a failure (SIG)

To display:

Position of the contacts if ON or OFF (AUX) and indication if the MCB has tripped due to a failure (ALT tripping)

Width:

9 mm

Contacts type:

2 changeover (CO): 1 for Aux + 1 for Sig

Mounting:

Left

Test Button:

operated by a tool to simulate the function of the aux when switched on without tripping the MCB.

ALT Test Button:

Reset the ALT Signal Contact after tripping.

IEC 60947-5-1

AC15 400/2 A, AC15 240/6 A, DC13 250/0.55 A, DC13 125 V/1.1 A, DC13 60 V/2 A, DC13 24 V/4 A

Standard:

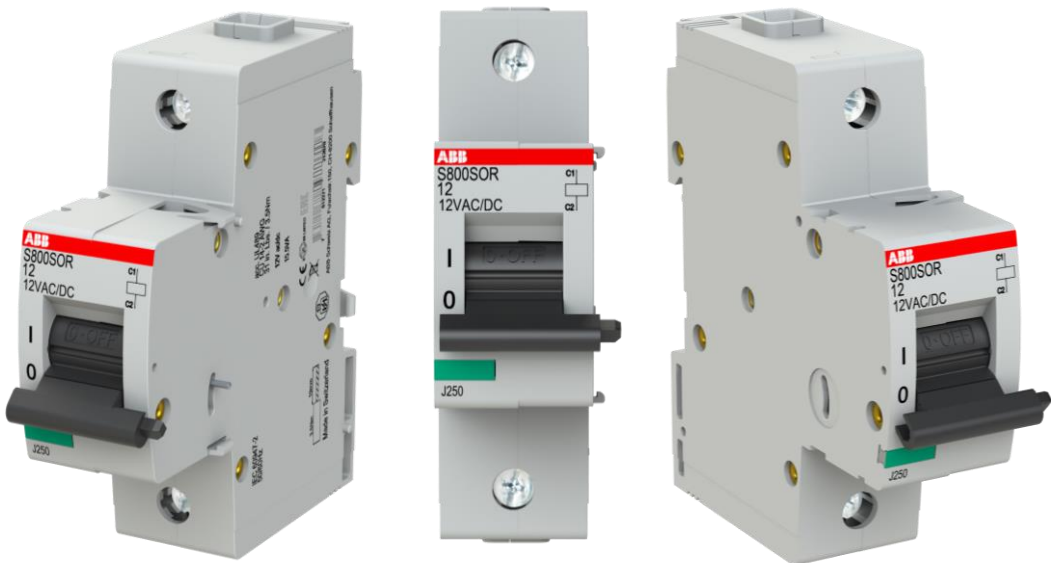
UL 489

125 VAC/6 A, 250 VAC/5 A
24 V DC/4 A, 125 V DC/0.3 A, 250 V DC/0.15 A

Shunt Opening Release

S800-SOR

S800-SOR



Function: Remote release of S800 for a fast and controlled opening of the circuit when required

Trigger: Operation guaranteed at a voltage between 70 % and 110 % of the rated mains voltage Un (AC/DC)

Width: 27 mm

Mounting: Left

Standard: IEC 60947-2
UL 489

Type	Voltage range	Coil pull in consumption
S800-SOR12	12VAC/DC	<15VA
S800-SOR24	24VAC/DC	16.6VA
S800-SOR130	48...130VAC/DC	41.9...307.3VA
S800-SOR250	110...250VAC/DC	23...119VA
S800-SOR400	220...400VAC/DC	45...148.1VA

Remote Switching Unit

S800-RSU-H / S800W-RSU



S800-RSU-H



S800W-RSU



S800-RSU-H-CP

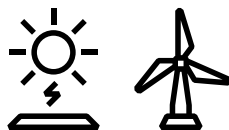
Function:	Remote control of S800 with fast and controlled opening of the circuit when required, and remote reclosing in total safety
Mounting:	Front, suitable for all multipoles, avoiding occupation on lateral side
Connection:	with 10-pole Micro Fit 3.0 cable (separate order code)
Switching times:	OFF → ON (from signal to contact closing) << 500 ms ON → OFF (from signal to contact opening) << 250 ms TRIP → OFF → ON (from signal to contact closing) << 1500 ms
Standard:	S800-RSU-H: IEC60947-2 Annex N S800W-RSU: UL489

Remote Switching Unit

Applications



RSU



Renewables

Ideal to simplify control in photovoltaic and wind-turbine applications, with power plant installed in remote areas: rapid switching and reclosing guaranteed in total safety from the control room.



Traction

Perfect solution to have under control all the area of train, including protection cabinet in location difficult to access: outside the coach, to the ceiling or under the floor.



UPS & Data Centers

Controlled switch-off and reclosing, ensuring reliable power continuity and minimizing downtime during outages.



Various

Ideal in general for all applications where remote control of the installation (opening and re-closing) is required, as in telecommunications, pharmaceutical, industries.....

Self-resetting short circuit limiter

S800-SCL-SCR



The S800-SCL-SR can be used as upstream device in installation with S800P/S/N/C or with manual motor starters as group protection:

- **Increase** the overall **short circuit capacity** of the combination **up to 100kA**.
- **Increase continuity of service and uptime**: in case of failure, only the defective device will trip, whereas other devices will not be affected

The rated current of the short-circuit limiter can not exceed the total sum of the rated currents of all downstream S800 and motor starters.

The sum of all load currents including inrush currents shall not exceed the maximum permissible load of the S800S-SCL-SR

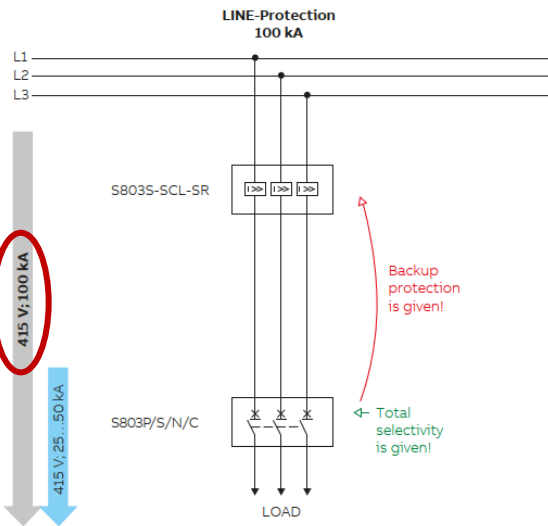
	S800S-SCL-SR	S803W-SCL-SR	S800HV-SCL-SR
Standard (in conjunction with protection device)	IEC 60947-2; IEC 60947-4-1	IEC 60947-2; IEC 60947-4-1; UL508	IEC 60947-2
U_e	400/690 VAC	IEC 690 VAC; UL 600 VAC	588 /1000 VAC
I_n	32A, 63A, 100 A	32A, 63A, 100 A	32A, 63A, 100A
Pole	1, 2, 3	3	3

	S800S-SCL-SR	S803W-SCL-SR	S803HV-SCL-SR
Rated ultimate short-circuit breaking capacity			
<i>I_{cs} = I_{sc} according to IEC 60947-2</i>			
(AC) 50/60 Hz 240/415 V	kA 100	100	
(AC) 50/60 Hz 254/440 V	kA 100	100	
(AC) 50/60 Hz 277/480 V	kA 65	65	
(AC) 50/60 Hz 289/500 V	kA 65	65	
(AC) 50/60 Hz 346/600 V	kA 65	65	
(AC) 50/60 Hz 400/690 V	kA 50*	50*	
(AC) 50/60 Hz 580/1000 V	kA		I _{cs} = 15 kA I _{cs} = 10 kA
Short-circuit rating according to UL 508, CSA 22.2			
(AC) 50/60 Hz 480 V	kA	65	
(AC) 50/60 Hz 600 V	kA	65	

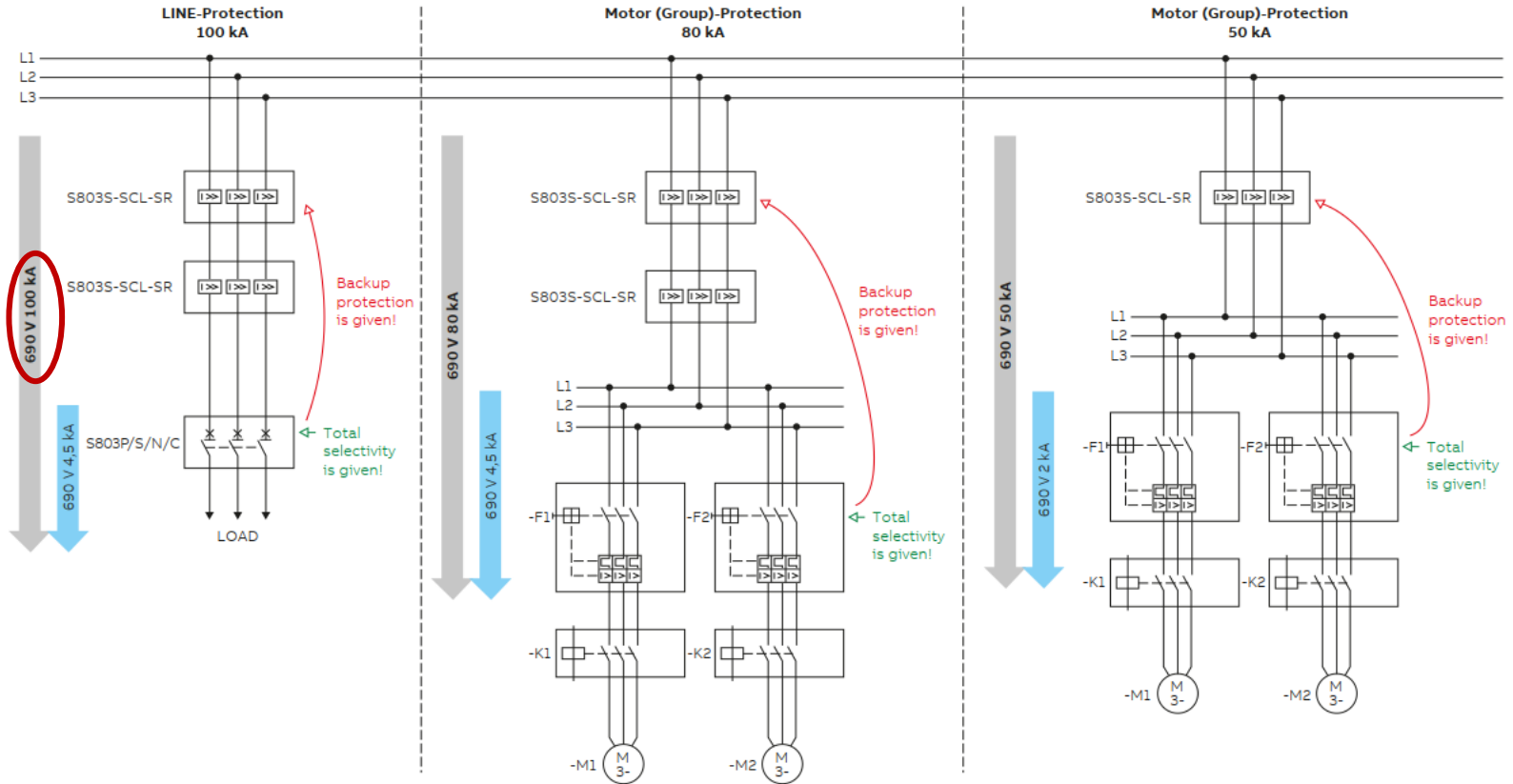
*Two devices can be installed in series reaching 100kA

Self-resetting short circuit limiter

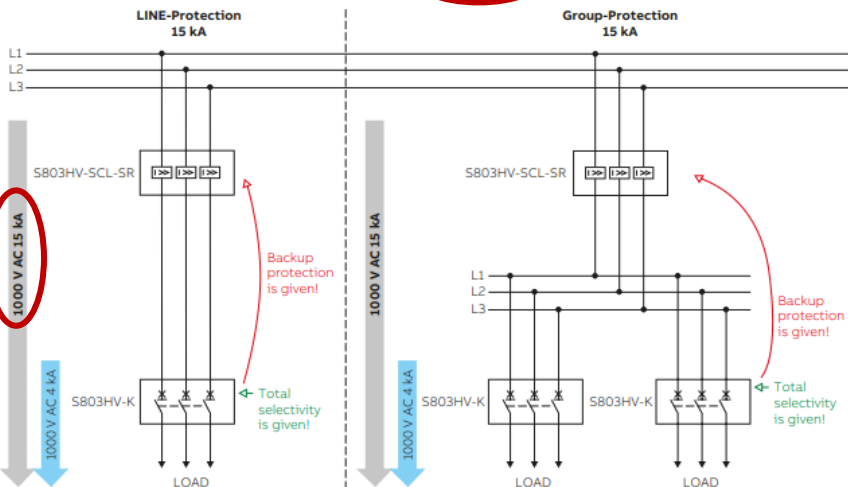
Example valid for S800S-SCL-SR / S803W-SCL-SR at **415 VAC**.



Example valid for S800S-SCL-SR / S803W-SCL-SR at **690 VAC**.

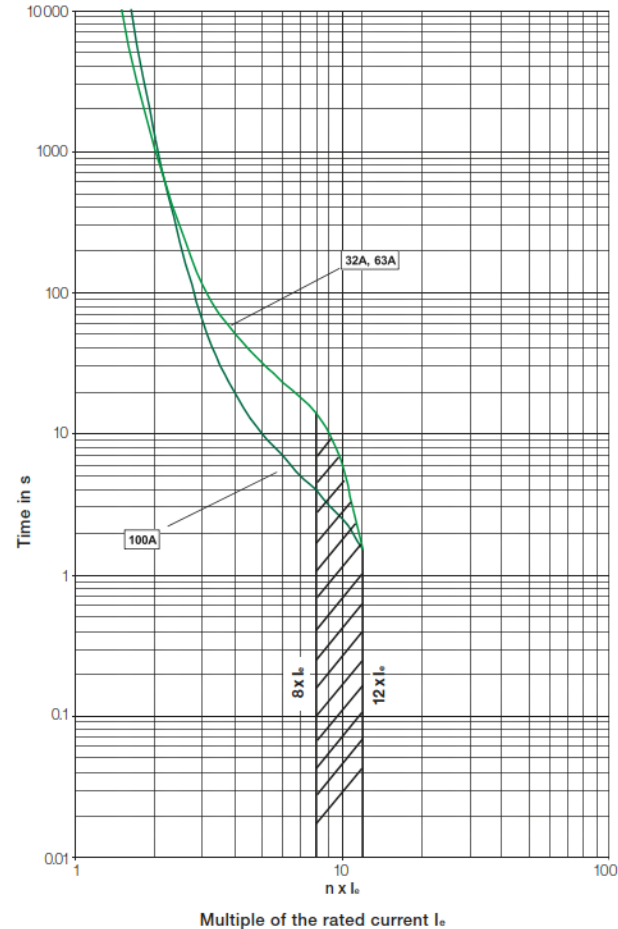


Example valid for S803HV-SCL-SR at **1000 VAC**.



Self-resetting short circuit limiter

Maximum



Example:

If you have 8 manual motor starters with each 5A as rated operational current

Sum: $8 \times 5A = 40A$

Then you have to use either the 63A or 100A S803-SCL-SR. In this example we use the 63A version.

We know that our maximum load is 245A. Thus we have to calculate if this maximum load can be handled with the 63A version and, if yes, for how many seconds.

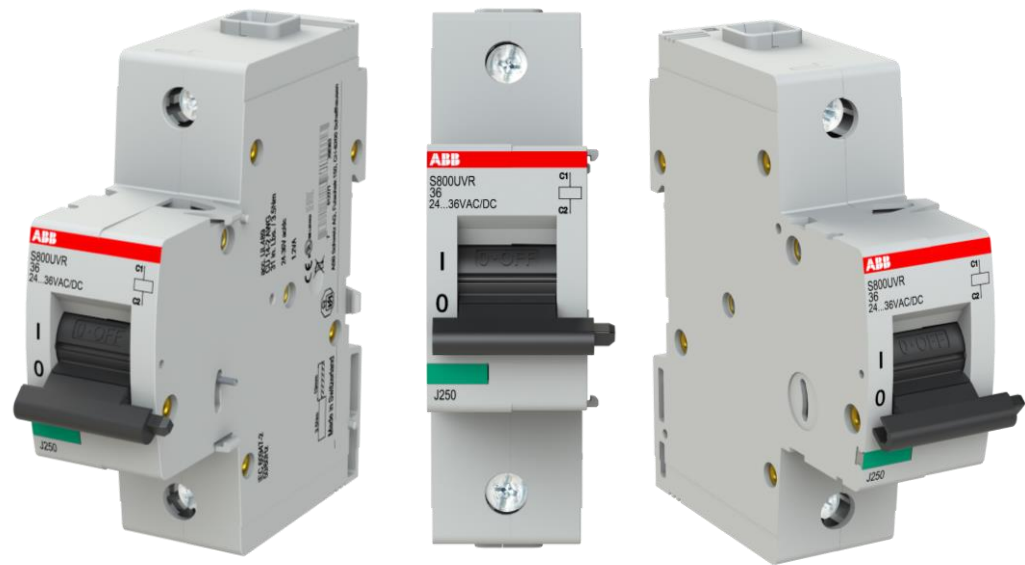
$245A / 63A = 3.89 \sim 4$

So now you can check where the multiplier „4“ crosses the graph of the 63A version to know for how many seconds this load can be handled. In this example a load of 245 A can be handled for max. 50 seconds. Please note: always use the S800-SCL-SR in the left area of this graphic, since it would be damaged otherwise.

Undervoltage Release

S800-UVR

S800-UVR



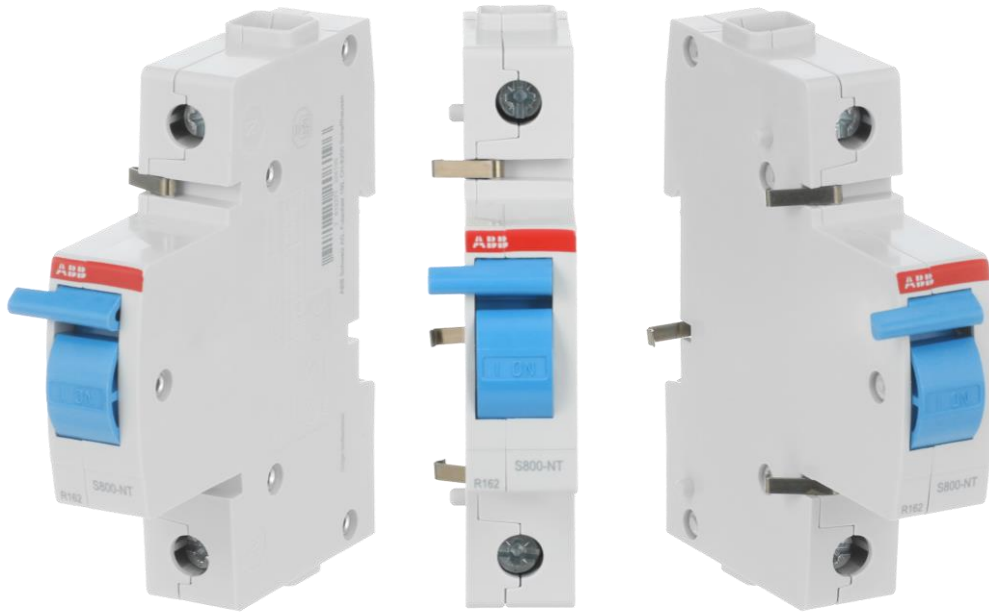
- Function:** Disconnection of S800 in case of overvoltage. It can be used as emergency-stop cut-off by use of suitable emergency stop button
- Operation:** switches off the power supply to the MCB in case of a failure or if the value falls below $0.7 \times U_n$
- Width:** 27 mm
- Mounting:** Left
- Standard:** IEC 60947-2
UL 489

Type	Voltage range	Coil pull in consumption
S800-UVR36	24...36VAC/DC	1.11...1.14VA
S800-UVR60	48...60VAC/DC	1.14...1.25VA
S800-UVR130	110...130VAC/DC	1.3...1.41VA
S800-UVR250	220...250VAC/DC	1.71...1.91VA

Disconnectable Neutral

S800-NT

S800-NT



Function:

Disconnects the Neutral conductor.

The S800 is force-opened before actuating the disconnecter.

Used in system with the neutral where 1P and 3P devices want to be installed (instead of using 2P and 4P)

Width:

18 mm

Mounting:

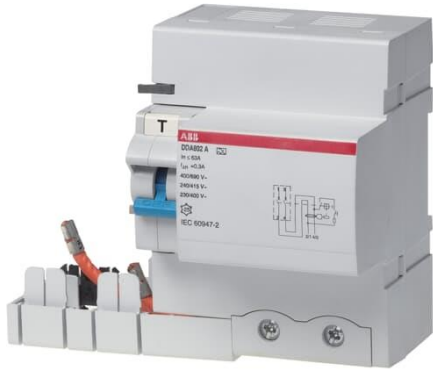
Right

Max N. Current:

63A

RCD block

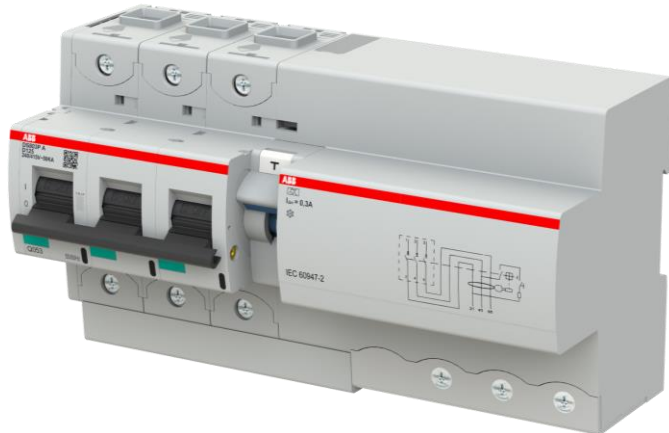
DDA800 → DS800P



DDA 800

DDA800 RCD block to be combined on site with S800 to guarantee complete protection against overcurrent and earth fault currents

- 2P, 3P, 4P
- AC, A, A-APR, A-S type
- 63, 100 A
- 30, 300, 500, 1000 mA sensitivity



DS800P

DS800P factory fitted RCBO to guarantee complete protection against overcurrent and earth fault currents

- 2P, 3P, 4P
- A, A-APR, A-S type
- 125 A
- 30, 300, 1000 mA sensitivity

Rotary Drive

S800-RD/RHE

S800-RD



S800-RHE-S



S800-RHE-H



S800-RHE-EM



Function:

Easy switch of the S800 due to ergonomic design, with direct mounting on the cabinet door. 3 position indication for easy identification: OFF, TRIP, ON

Padlock:

possible to lock in OFF position. It can accept up to 3 padlocks with lug diameters of 7 mm

Made of 3 pcs:

Rotary Drive: S800-RD
Rotary handle: S800-RHE-H, -EM
Axle (500 mm): S800-RHE-S

Size:

76 x 76 mm

Mounting:

Front

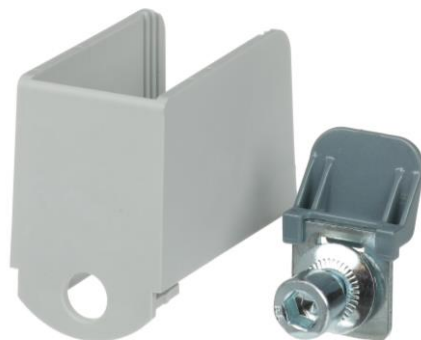
Interchangeable Adapter Kit

S800-CT, -RT,

S800-CT



S800-RT



Function:

Change terminals connection kit, to easy change from ring terminal to cage Terminal or vice versa

Types

Cage terminal up to 70 mm² cable
Ring lug terminal up to 70 mm² cable
(max. width 19mm, bore diameter 6mm)

Included:

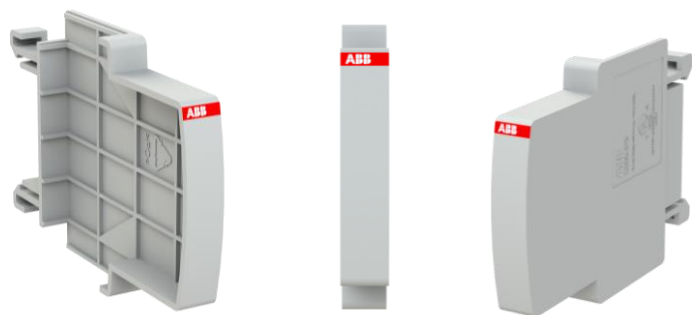
Ring to Cage
Cage Terminal
Insulator

Cage to Ring
Nut, insulation nut – cable lug, Allen screw
Insulator with 25 mm insulation walls

Other Accessories

S800-IP9, S800-PLL, S800U-PLL

S800-IP9



Function: Fill empty device slots

Width: 9 mm

Mounting: Right

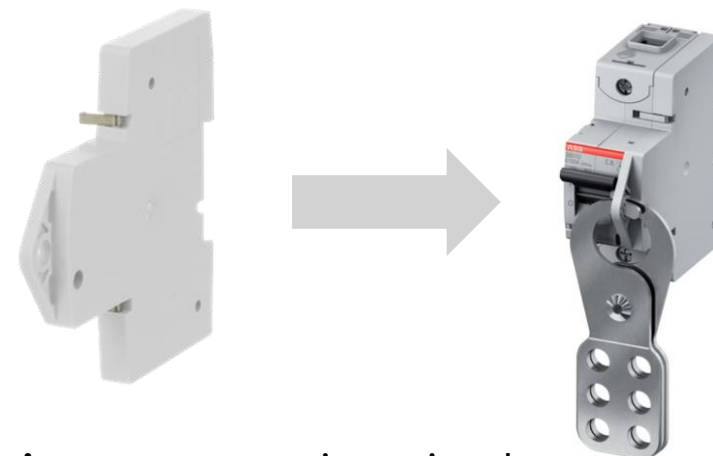
S800-PLL



Function: prevents unintentional switching on/off

Mounting: with lug diameter Ø 4 mm

S800U-PLL



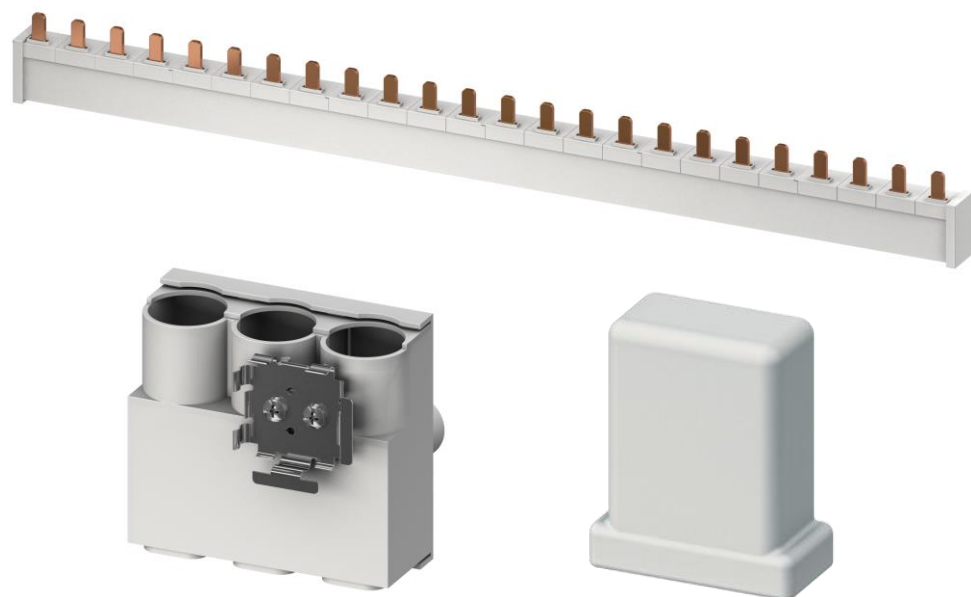
Function: prevents unintentional switching on/off

Mounting: At the side, removable only with special tool. A standardized American padlock (not included in delivery) is hung onto the round recess on the locking device, which can be secured by max six locks.

Busbar Kit

S80x-BB, -END

S80x-BB



Function:

S800 MCBs connection without using cables

Current:

Side feed 125 A
Mid feed 250 A

Set:

250A busbar 3P: 24 pins and 6 pins
250A busbar 3P+N: 24 pins
Feed block for cables up to 120 mm² in 3P and 3P+N version
Optional contact protection cap (for exposed ring lung terminals)
Optional end cap

Options:

Cuttable

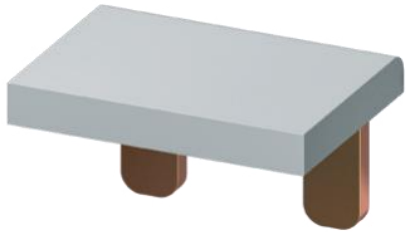
Standard:

EN/IEC 60439-2

LINK

S802-LINK

S802-LINK50



S802-LINK125



Function:

Fast and safe connection of S800 MCBs poles in series when required in DC applications, avoiding wiring operation

Versions:

up to 50A
up to 125A

**Rated Ins.
Voltage 125A:**

DC 1500 V

InSite

CMS – Current Measurement System

CMS sensor



Connectors and cable



Function:

CMS sensor can be mounted on S800, for Monitoring of each branch circuit
Quick detecting of current deviations before serious damages
Gives where and how the electricity is used in order to allocate and save costs

Characteristics:

Compactness which allows easy retrofitting in existing installations
Same type of sensor for measuring AC, DC or mixed currents

SCU100



SCU200



InSite

ABB