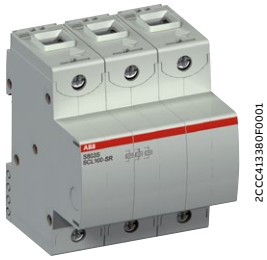

Self resetting current limiting module

8/2	S800-SCL-SR Ordering details
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S800-SCL-SR

Self-resetting current limiting module



S800S-SCL-SR

2CCS41380P0001



S803W-SCL-SR

2CCS41383B0001

S800-SCL-SR is ABB's innovative self-resetting current limiting module which considerably increases the short-circuit breaking capacity of downstream manual motor starters and high performance MCBs. S800-SCL-SR is a self resetting current limiting module based on the S800 technology.

It limits the short-circuit current until the downstream means of protection trips. Its current continuity makes it as the ideal solution for group protection: All parallel branches remain operative. This leads to an Expanded application range of the low voltage switchgear whose short-circuit capabilities are usually limited. S800-SCL-SR can be combined with S800S high performance MCB or with manual motor starters. S800-SCL-SR can also back up a single circuit breaker or a group of circuit breakers or motor starters (group protection). Terminals and outside dimensions are identical to the S800 range.

Self-resetting short-circuit limiter IEC version	Type designation	Product number	EAN number	Weight	Pack.
A			7612271	kg	unit

1-pole

32	S801S-SCL32-SR	2CCS801901R0539	412012	0.25	1
63	S801S-SCL63-SR	2CCS801901R0599	412036	0.25	1
100	S801S-SCL100-SR	2CCS801901R0639	411992	0.25	1

2-pole

32	S802S-SCL32-SR	2CCS802901R0539	412074	0.5	1
63	S802S-SCL63-SR	2CCS802901R0599	412098	0.5	1
100	S802S-SCL100-SR	2CCS802901R0639	412050	0.5	1

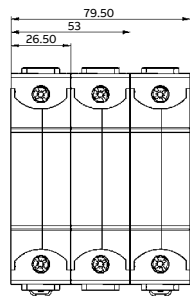
3-pole

32	S803S-SCL32-SR	2CCS803901R0539	411930	0.75	1
63	S803S-SCL63-SR	2CCS803901R0599	411947	0.75	1
100	S803S-SCL100-SR	2CCS803901R0639	411954	0.75	1

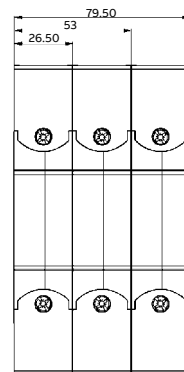
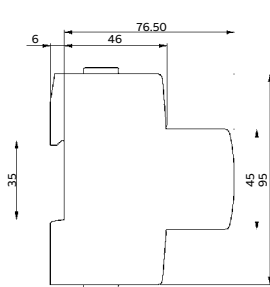
Self-resetting short-circuit limiter IEC/UL version	Type designation	Product number	EAN number	Weight	Pack.
A			7612271	kg	unit

3-pole

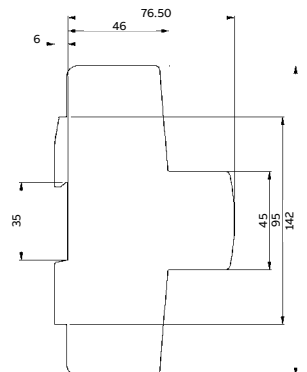
32	S803W-SCL32-SR	2CCS803917R0539	412319	0.75	1
63	S803W-SCL63-SR	2CCS803917R0599	412326	0.75	1
100	S803W-SCL100-SR	2CCS803917R0639	412302	0.75	1



S800S-SCL-SR/S803S-SCL



S803W-SCL-SR



Main dimensions mm, inches

2CCS41302B0201

S800S-SCL-SR/S803W-SCL-SR

Technical data

		S800S-SCL-SR	S803W-SCL-SR
Rated operational current I _e	[A]	32, 63, 100	32, 63, 100
Pole		1, 2, 3	3
Rated operational voltage U _e	50/60Hz [V]	400/690	690
(AC) according to IEC 60947-2			
(AC) according to UL 508	50/60Hz [V]		600
Rated insulation voltage U _i	[V]	690	690
Rated impulse withstand voltage U _{imp}	[kV]	8	8
Rated ultimate short-circuit breaking capacity			

I_{cu} = I_{cs} according to IEC 60947-2*

(AC) 50/60Hz 240/415V	[kA]	100	100
(AC) 50/60Hz 254/440V	[kA]	100	100
(AC) 50/60Hz 277/480V	[kA]	65	65
(AC) 50/60Hz 289/500V	[kA]	65	65
(AC) 50/60Hz 346/600V	[kA]	65	65
(AC) 50/60Hz 400/690V	[kA]	50	50

Short-circuit rating according to UL 508, CSA 22.2*

(AC) 50/60Hz 480V	[kA]	65	65
(AC) 50/60Hz 600V	[kA]	65	65

* Valid only for approved combinations

Rated frequency	[Hz]	50/60	50/60
Mounting position		any	any
Connections Cu			
	[mm ²]	1 ... 50 rigid (solid/stranded)	1 ... 50 rigid (solid/stranded)
	[mm ²]	1 ... 70 flexible	1 ... 70 flexible
			14-1 AWG
Tightening torque			
	[Nm]	min. 3 / max. 4	min. 3 / max. 4
	[in. lbs.]		min. 26.5 / max. 25
Feeding		optional	optional
Mouting on DIN top hat rail		EN 60715	EN 60715
Ambient air temperature	[°C]	-40 ... +70	-40 ... +70
Storage temperature	[°C]	-40 ... +85	-40 ... +85
Degree of protection		IP20	IP20
Classification acc. to NF F 16-101, NF F 16-102		I3, F2	I3, F2
Damp Heat		IEC 60068-2-30, 55°C / 95% r.h.	IEC 60068-2-30, 55°C / 95% r.h.
Vibration		IEC 60068-2-6, 5-10Hz / 3 mm and 10-500Hz / 2g at 0.5 x I _e	IEC 60068-2-6, 5-10Hz / 3 mm and 10-500Hz / 2g at 0.5 x I _e
Random Vibration		IEC 60068-2-64, 5-500Hz / 2g at 0.5 x I _e	IEC 60068-2-64, 5-500Hz / 2g at 0.5 x I _e
Resistance to climatic conditions		IEC 60068-2-1 /-2-2 /-2-30	IEC 60068-2-1 /-2-2 /-2-30
Standard		IEC 60947-2 IEC 60947-4-1	IEC 60947-2 IEC 60947-4-1 UL 508, CSA 22.2 No. 14

Internal resistance at 25°C ambient temperature and nominal power losses

Rated current I _n	Internal resistance R _i	Power losses P _{vn}
A	mΩ/pole	W/pole
32	2.8	3.6
63	1.3	5.7
100	0.7	7.8

Influence of ambient temperature – single mounted devices

Rated current I _n	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C	70°C
A													
32	38.2	37.2	35.8	35.2	34.2	33.3	32	30.7	29.8	28.8	27.8	26.5	25.1
63	75.3	73.2	70.6	69.3	67.4	65.5	63	60.5	58.6	56.7	54.8	52.3	49.8
100	119.5	116.2	112	110	107	104	100	96	93	90	87	84	80

S800-SCL-SR

Technical data

Short circuit breaking capacity

	S800S-SCL-SR	S803W-SCL-SR
Rated ultimate short-circuit breaking capacity		

I_{cu} = I_{cs} according to IEC 60947-2

(AC) 50/60Hz 240/415V	[kA]	100	100
(AC) 50/60Hz 254/440V	[kA]	100	100
(AC) 50/60Hz 277/480V	[kA]	65	65
(AC) 50/60Hz 289/500V	[kA]	65	65
(AC) 50/60Hz 346/600V	[kA]	65	65
(AC) 50/60Hz 400/690V	[kA]	50	50

Short-circuit rating according to UL 508, CSA 22.2

(AC) 50/60Hz 480V	[kA]	65
(AC) 50/60Hz 600V	[kA]	65

Coordination

Type	230 V AC						400 V AC						440 V AC					
			Fuse		Current Limiter				Fuse		Current Limiter				Fuse		Current Limiter	
	I _{cs} kA	I _{cu} kA	gG, kA	aM A	S803x-SCL-SR kA A		I _{cs} kA	I _{cu} kA	gG, kA	aM A	S803x-SCL-SR kA A		I _{cs} kA	I _{cu} kA	gG, kA	aM A	S803x-SCL-SR kA A	
MS132-0.16																		
MS132-0.25																		
MS132-0.4																		
MS132-0.63																		
MS132-1.0	No back-up required						No back-up required						No back-up required					
MS132-1.6																		
MS132-2.5																		
MS132-4.0													20	20	100	63	100	32,63,100
MS132-6.3													20	20	100	100	100	32,63,100
MS132-10													20	20	100	100	100	32,63,100
MS132-12													20	20	100	125	100	32,63,100
MS132-16													20	20	100	125	100	32,63,100
MS132-20													20	20	100	125	100	32,63,100
MS132-25	50	50	100	125	100	63,100	50	50	100	125	100	63,100	20	20	100	125	100	63,100
MS132-32	25	50	100	125	100	63,100	25	50	100	125	100	63,100	20	20	100	125	100	63,100

Type	500 V AC						600 V AC					
			Fuse		Current Limiter				Fuse		Current Limiter	
	I _{cs} kA	I _{cu} kA	gG, kA	aM A	S803x-SCL-SR kA A		I _{cs} kA	I _{cu} kA	gG, kA	aM A	S803x-SCL-SR kA A	
MS132-0.16												
MS132-0.25												
MS132-0.4												
MS132-0.63												
MS132-1.0	No back-up required						No back-up required					
MS132-1.6												
MS132-2.5	20	20	100	35	65*	32, 63,100	3	3	80	35	50**	32, 63,100
MS132-4.0	20	20	100	63	65*	32, 63,100	3	3	80	63	50**	32, 63,100
MS132-6.3	20	20	100	100	65*	32, 63,100	3	3	80	100	50**	32, 63,100
MS132-10	20	20	100	100	65*	32, 63,100	3	3	80	100	50**	32, 63,100
MS132-12	20	20	100	125	65*	32, 63,100	3	3	80	125	50**	32, 63,100
MS132-16	20	20	100	125	65*	32, 63,100	3	3	80	125	50**	32, 63,100
MS132-20	20	20	100	125	65*	32, 63,100	3	3	80	125	50**	32, 63,100
MS132-25	10	10	100	125	65*	63,100	3	3	80	125	50**	63,100
MS132-32	10	10	100	125	65*	63,100	3	3	80	125	50**	63,100

* 100 kA when two current limiters are used in series.
 ** 80 kA when two current limiters are used in series.

S800-SCL-SR and S803S-SCL

Technical data

Installation requirements

The total sum of the rated currents of all downstream motor starters or circuit breakers shall not exceed the rated current of the S800-SCL-SR. Furthermore the sum of all load currents including inrush currents shall not exceed the maximum permissible load of the S800-SCL-SR.

Maximum load

