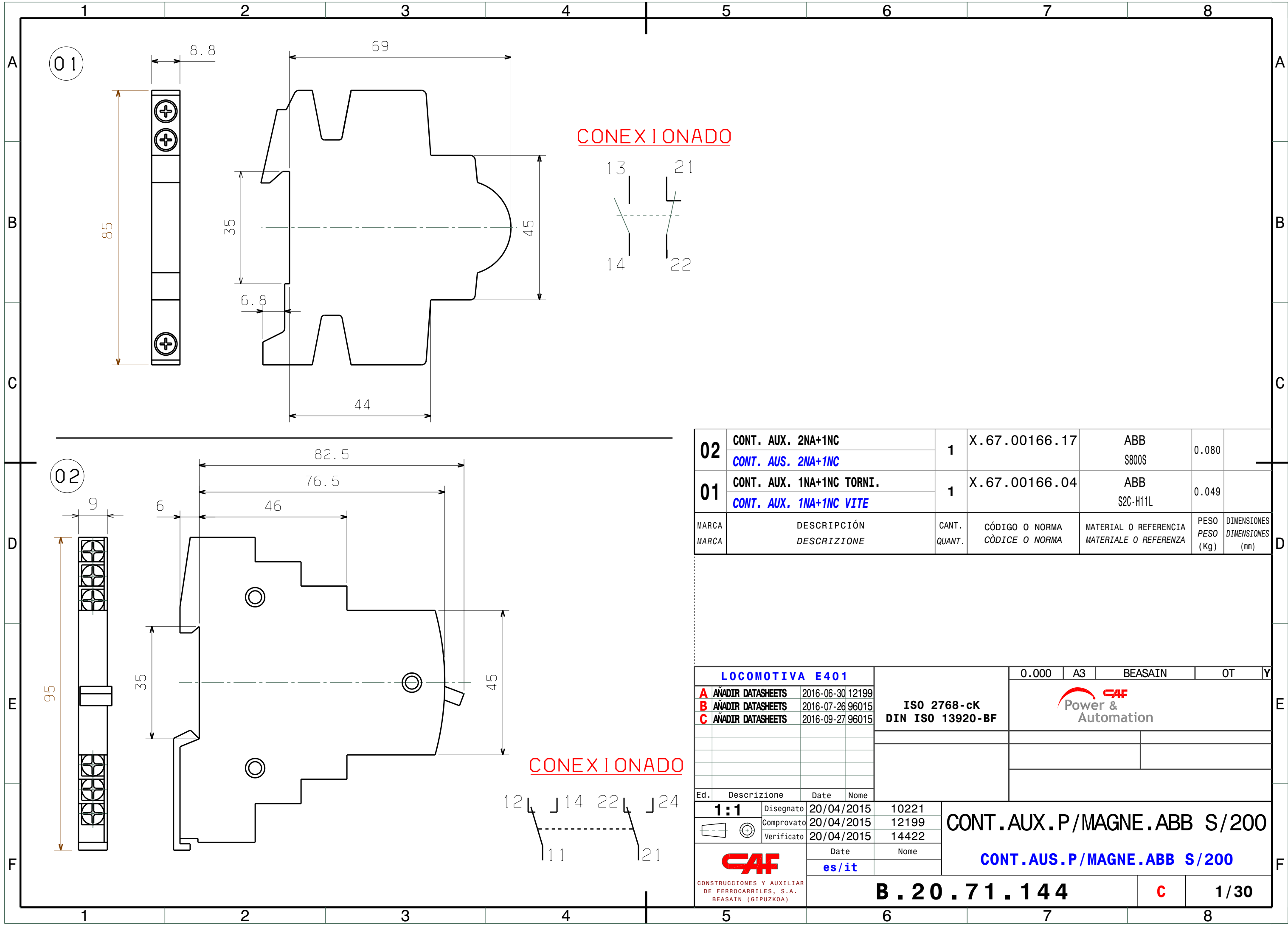






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02	CONT. AUX. 2NA+1NC	1	X.67.00166.17	ABB S800S	0.080	
	CONT. AUS. 2NA+1NC					
01	CONT. AUX. 1NA+1NC TORNI.	1	X.67.00166.04	ABB S2C-H11L	0.049	
	CONT. AUX. 1NA+1NC VITE					
MARCA	DESCRIPCIÓN	CANT.	CÓDIGO O NORMA	MATERIAL O REFERENCIA	PESO	DIMENSIONES
MARCA	DESCRIZIONE	QUANT.	CÓDICE O NORMA	MATERIALE O REFERENZA	PESO (Kg)	DIMENSIONES (mm)

LOCOMOTIVA E401				ISO 2768-cK DIN ISO 13920-BF		0.000		A3	BEASAIN	OT	Y
A	AÑADIR DATASHEETS	2016-06-30	12199			<div> Power &amp; Automation</div>					
B	AÑADIR DATASHEETS	2016-07-26	96015								
C	AÑADIR DATASHEETS	2016-09-27	96015								
Ed.	Descrizione	Date	Nome								
1:1	Disegnato	20/04/2015	10221	CONT.AUX.P/MAGNE.ABB S/200							
 	Comprovato	20/04/2015	12199								
	Verificato	20/04/2015	14422								
		Date	Nome	CONT.AUS.P/MAGNE.ABB S/200							
		es/it									
		CONSTRUCCIONES Y AUXILIAR DE FERROCARRILES, S.A. BEASAIN (GIPUZKOA)				B . 20 . 71 . 144				C	1/30

# DIN-Rail components for rolling stock applications

## Auxiliary elements and accessories

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Busbar and accessories for MCBs S 200 series	10
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Auxiliary elements for MCBs S500 UC	30

# Auxiliary elements and accessories

## Selection tables



Accessory	Auxiliary and Signal Contacts					
	S2C-S/H6R	S2C-H6R	S2C-H..	S2-H..	S2-H..X	
Standards						
EN 45545	R26/HL3	R26/HL3	R26/HL3	R26/HL3	R26/HL3	
NF F 16-101/102	I2/F1 - Exigence 4	I2/F1 - Exigence 4	I3/F2 - Exigence 2	I2/F1 - Exigence 4	I2/F1 - Exigence 4	
IEC 61373	Category 1 - Class A/B	Category 1 - Class A/B	Category 1 - Class A/B	Category 1 - Class A/B	Category 1 - Class A/B	
Combinable with:						
S200 MT	■	■	■			
S200 MT UC	■	■	■			
S200 M UC	■	■	■			
S200 P	■	■	■			
S280 UC				■	■	
S800S						
S800S UC						
S500 UC						
DS201 T	■	■				



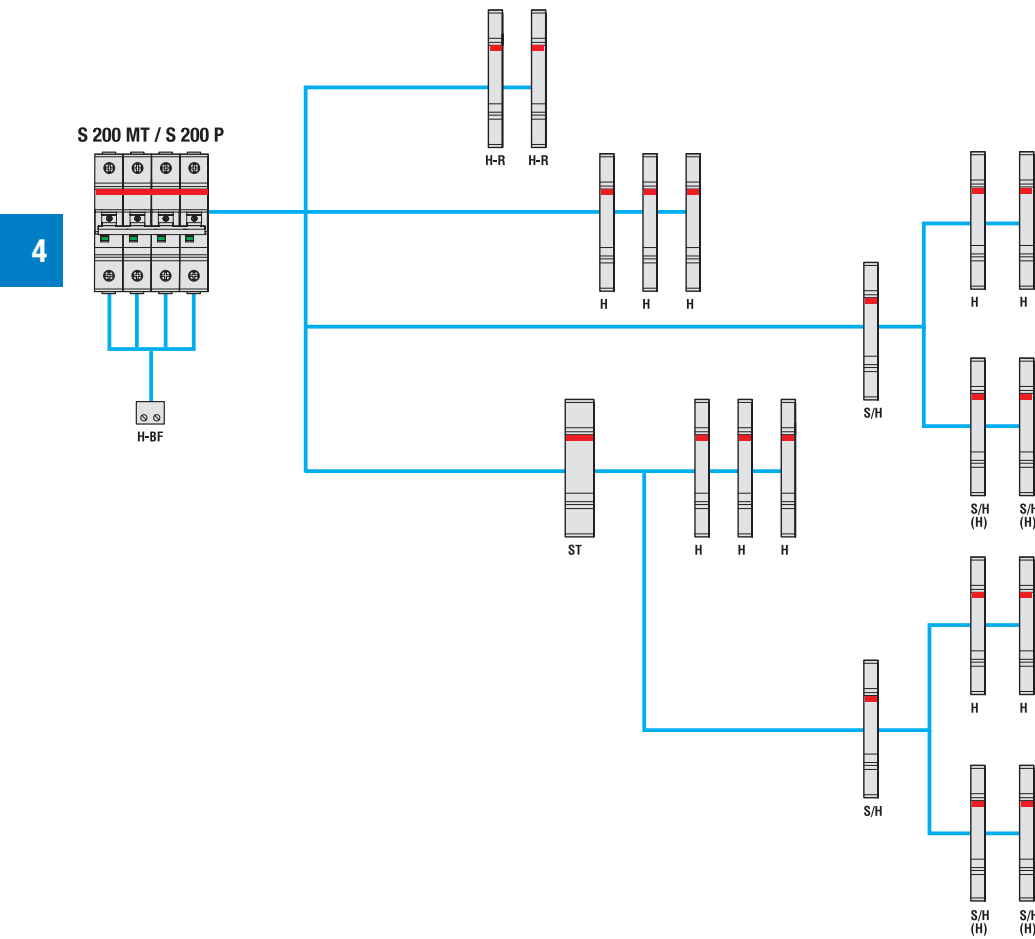
Accessory	Shunt trip			Motor operating device	
	S2C-Ax	S2-Ax	S800-SOR	S2C-CMx	
Standards					
EN 45545	R26/HL3	R26/HL3	R26/HL3	—	
NF F 16-101/102	I2/F3 - Exigence 3	I2/F1 - Exigence 4	I3/F2 - Exigence 2	I3 / F1 - Exigence 2	
IEC 61373	Category 1 - Class A/B	Category 1 - Class A/B	Category 1 - Class B	Category 1 - Class A/B	
Combinable with:					
S200 MT	■				
S200 MT UC	■				
S200 M UC	■				
S200 P	■			■	
S280 UC		■			
S800S			■		
S800S UC			■		
S500 UC					
DS201 T					

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# Auxiliary elements and accessories for MCBs and RCDs

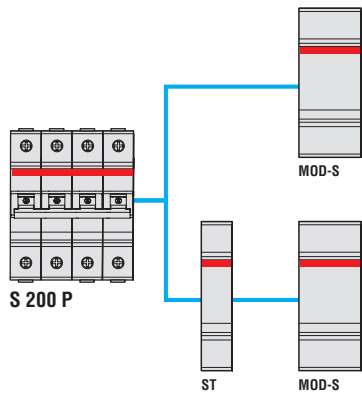
## Selection tables

### Combination of auxiliary elements with S 200 MCBs series



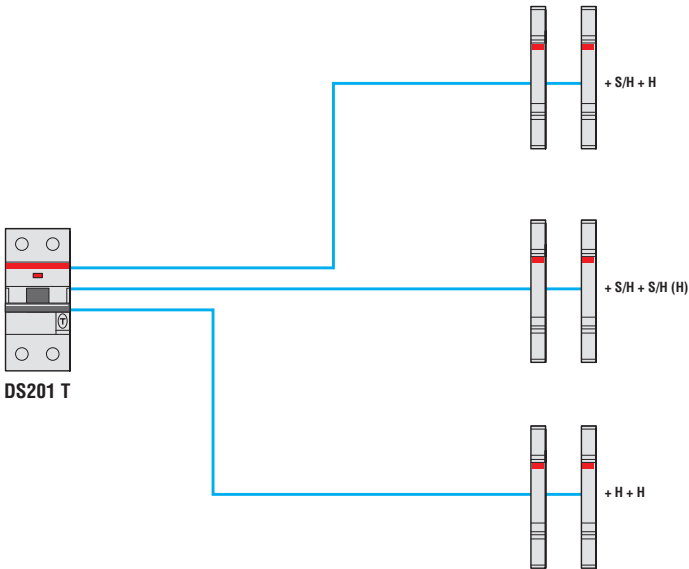
H	Auxiliary contact	S2C-H6R
S/H	Signal/Auxiliary contact	S2C-S/H6R
S/H (H)	Signal/Auxiliary contact used as auxiliary contact	S2C-S/H6R
ST	Shunt trip for S 200 MCB	S2C-A...
H-BF	Auxiliary contact for MCBs bottom fitting (1 for each pole of MCB)	S2C-H01/S2C-H10

Combination of S 200 P MCBs series with motor operating device



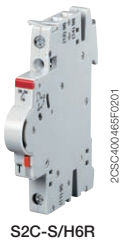
ST	Shunt trip for S 200 P MCB	S2C-A...
MOD-S	Motor operating device	S2C-CM...

Combination of auxiliary elements with DS201 T



H	Auxiliary contact	S2C-H6R
S/H	Signal/Auxiliary contact	S2C-S/H6R
S/H (H)	Signal/Auxiliary contact used as auxiliary contact	S2C-S/H6R

# Auxiliary elements for S 200 series and DS201 T



4



Auxiliary contact and signal/auxiliary contact		
S2C-H6R and S2C-S/H6R		
Conventional free air thermal current	A	10 A
Min. operational current/voltage*		10 mA at 12 V; 5 mA at 24 V
Rated conditional short-circuit current	V	230 V AC 1.000 A with S201 K4
Overvoltage category		III
Rated impuls withstand voltage (1.2/50µs)	kV	4 kV
Cross-section of conductors	mm <sup>2</sup>	0.75...2.5 mm <sup>2</sup> (up to 2 x 1.5 mm <sup>2</sup> )
Tightening torque	Nm	1.2 Nm
Contact stability in vibration test according to IEC/EN 60 068-2-6		5g, 20 sweep cycles 5...150...5 Hz at 24 V AC/DC, 5 mA auto-matic reclosing < 10 ms
Mechanical service life		10000 operations
Dimensions (H x D x W)	mm	85 x 69 x 8.8 mm

\* ensures safe contacting without current interruption by pollution layer

## Signal/auxiliary contacts

Function S2C-S/H6R: choice through a selector between indication of the position of the device's contacts and signalling of the fault (overcurrent/short-circuit for MCBs and RCBOs; earth fault for RCBOs).

Function S2C-H6R: indication of the position of the device's contacts. To be mounted on the left side of the MCBs thanks to the special pin.

Description	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Signal contact/ auxiliary switch 1C0	563819	S2C-S/H6R	2CDS200922R0001		0.04	1
Auxiliary contact 1C0	563826	S2C-H6R	2CDS200912R0001		0.04	1



#### Bottom-fitting auxiliary contact

S2C-H10 and S2C-H01		
Contact element		1NO (1 make contact), 1NC (1 normally closed contact), leading make contact, late closing
Utilization category		AC14 2A/230V - DC 12 identical DC13/DC13 1A /50V, 2A/30V
Min. operational current/voltage*	V	10 mA at 12 V AC/DC
Rated conditional short-circuit current		230 VAC 1000 A, fault protection with S 201-K2 or Z2
Electrical serviceable life		> 4000 switchover cycles
Standard		VDE 0106 Part 101
Connection cross-section	mm <sup>2</sup>	0.75 ... 2.5
Tightening torque	Nm	0.5

\* ensures safe contacting without current interruption by pollution layer

#### Bottom-fitting auxiliary contacts for S200 MCBs series

Description	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
1 NC	64551 5	S 2C-H01	2CDS 200 970 R0001		0.01	1
1 NO	64552 2	S 2C-H10	2CDS 200 970 R0002		0.01	1

#### packing unit 15 parts

Description	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
1 NC	64677 2	S 2C-H01 15x	2CDS 200 970 R0011		0.01	15
1 NO	64681 9	S 2C-H10 15x	2CDS 200 970 R0012		0.01	15

#### Auxiliary contact bridge for bottom-fitting auxiliary contacts

Wire jumper for integrated auxiliary contacts S2C-H01/S2C-H10 for series connections (HKB) or parallel connections (HKB1).

Description	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
1/2 mod.	523134	HKB	GH V036 0504 R0100		0.001	1000
1 mod.	524209	HKB 1	GH V036 0504 R0101		0.001	1000

#### Utilization category / contact capacity

S2C-H6R, S2C-S/H6R				
AC14	U <sub>e</sub>	V	400 V	230 V
	I <sub>e</sub>	A	1 A	2 A
DC12	U <sub>e</sub>	V	220 V	110 V
	I <sub>e</sub>	A	1 A	1.5 A
DC13	U <sub>e</sub>	V	60 V	24 V
	I <sub>e</sub>	A	2 A	4 A



# Auxiliary elements for S 200 series



4

Shunt trip for S 200 MCBs								
			S2C-A1					
Rated voltage	AC	V	12...60 V AC					
	DC	V	12...60 V DC					
Max release duration			ms	<10 ms				
Min. release voltage	AC	V	7 V AC					
	DC	V	10 V DC					
Consumption on release	U <sub>b</sub>	V	12 V DC	12 V AC	24 V DC	24 V AC	60 V DC	60 V AC
	I <sub>b</sub> max	A	2.2 A	2.5 A	4.5 A	5 A	14 A	8.8 A
Coil resistance			Ω	3.7 Ω				
Terminals			mm <sup>2</sup>	16 mm <sup>2</sup>				
Tightening torque			Nm	2.5 Nm				
Dimensions (H x D x W)			mm	85 x 69 x 17.5 mm				
			S2C-A2					
Rated voltage	AC	V	110...415 V AC					
	DC	V	110...250 V DC					
Max release duration			ms	<10 ms				
Min. release voltage	AC	V	55 V AC					
	DC	V	80 V DC					
Consumption on release	U <sub>b</sub>	V	110 V DC	110 V AC	220 V DC	230 V AC	415 V AC	
	I <sub>b</sub> max	A	0.35 A	0.5 A	1.1 A	1.0 A	2.7 A	
Coil resistance			Ω	225 Ω				
Terminals			mm <sup>2</sup>	16 mm <sup>2</sup>				
Tightening torque			Nm	2.5 Nm				
Dimensions (H x D x W)			mm	85 x 69 x 17.5 mm				

## Shunt trips

Function: remote opening of the device when a voltage is applied.

Rated voltage	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
AC/DC 12...60 V	570992	S2C-A1	2CDS200909R0001		0.15	1
AC 110...415 V/DC110...250 V	571005	S2C-A2	2CDS200909R0002		0.15	1

# Motor operating and autoreclosing devices for S 200 P series



S2C-CM

2CSC400248F0201

## Motor operating devices

		S2C-CM	
Supply	V	12 ... 30 V AC +10% - 15% (50-60Hz); 12 ... 48 V DC +10% - 15%	
Power consumption during the operation	12 V AC	VA	< 15 VA
	24 V AC	VA	< 22 VA
	30 V AC	VA	< 25 VA
	12 ... 48 V DC	VA	< 20 VA
Power consumption at rest	VA	< 1.5 VA	
Make-time at ambient temperature	sec	< 1 sec	
Opening time at ambient temperature	sec	< 0.5 sec	
Number of operations		< 20,000	
Operating temperature	°C	- 25 ... + 55 °C	
Cables length of control circuit	m	< 1500 m	
Cables cross-section	mm <sup>2</sup>	< 2.5 mm <sup>2</sup>	
Signal contact (terminals 3 – 4 – 5)		1NA + 1NC (change-over contact) 5 A (250 V AC) (inductive-ohmic load)	
Current carrying capacity			
Auxiliary contact (terminals 6 – 7 – 8)		1NA + 1NC (change-over contact) 3 A (250 V AC) (inductive-ohmic load)	
Current carrying capacity			
Remote control*		By means of dry contacts	
Remote control terminals		Terminal 9 = make contact; Terminal 10 = opening contact Terminal 11 = common reference for control contacts, +5 V DC (supplied by the motor operating device)	

\* Note: In case of the device opening due to a fault, please wait 8 seconds before attempting to reclose the motor operator.

## Motor operating devices

Function: S2C-CM allows the remote control (opening or closing) of the coupled device.

Number of poles of S 200 P MCB	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
1	026259	S2C-CM1	2CSS201997R0013		0.166	1
2 and 3	026358	S2C-CM2/3	2CSS203997R0013		0.166	1
4	026457	S2C-CM4	2CSS204997R0013		0.166	1

# Busbars and accessories for MCBs S 200 series

## PS busbars

### Short description

ABB busbar systems enable the safe and economic cross connection of MCBs, RCCBs and RCBOs.

For a correct busbar selection the following points need to be considered:

- MCB terminal type (Twin terminal or cage terminal)
- Number of poles (1, 2, 3, 4, 1+N or 3+N)
- Device type (MCB, RCCB or RCBO)
- Combinations (e.g. RCCB + MCB or RCCB 3+N + RCCB 1+N)
- Use of side mounted auxiliary elements on MCB \*)
- Busbar diameter (for current carrying capacity calculation)
- Number of modules (choice of standard busbar or busbar for cutting)

### Coding of PS busbars

	PS		/			/								
		1			2	3			4	5		6	7	7
Phases														
1 phase		1												
2 phases		2												
3 phases		3												
4 phases		4												
Number of pins														
Diameter														
10 mm²									-	-				
6 mm²									6	-				
16 mm²									1	6				
30 mm²									3	0				
Application														
Cross connection of RCCB and MCB (4th pin removed for RCCB 3+N)												F	I	
Use of neutral conductor (phase sequence e.g. L1-N-L2-N-L3-N-L1...)										N				
Space for 1 side mounted auxiliary contact										H				
Space for 2 side mounted auxiliary contacts												H	2	
Pins for breaking off														A
Cross connection of devices 3P+N + 1P+N (phase sequence L1-L2-L3-N-L1-N-L2-N-L1-N-...)												N	N	
Busbars for IT networks												I	T	
<b>Note:</b> Combinations of above applications are possible														

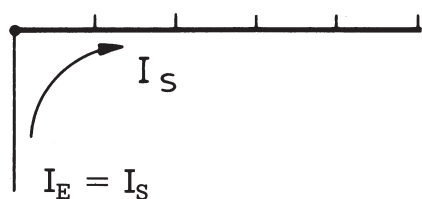
\*) only right side mounted auxiliary elements and bottom fixed auxiliary contacts can be considered for busbar connection

# Busbars and accessories for MCBs S 200 series

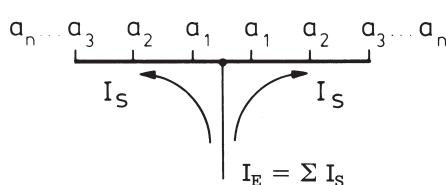
## PS busbars technical features

		Busbars PS				
Suitable for			MCB: S200MT and S200P			
Electrical Data	Standards		for IEC applications DIN EN 60947-1 VDE 0660 Part 100 = IEC 60947-1:2004			
	Approvals		—			
	Rated voltage Ue		1P, 2P, 3P, 4P: 690 V AC, 690 V DC			
	Rated frequency	Hz	50 / 60 Hz, DC			
	Current carrying capacity / Phase (35°C ambient temperature)	A	10 mm²		16 mm²	30 mm²
			End feeding ①	63 A	80 A	120 A
			Non-end feeding ①	100 A	130 A	160 A
Short-circuit withstand capacity	kA	25 kA in series with fuse NH3 355 A gG 500 V				
Mechanical Data	Housing		light grey, RAL 7035			
	Environmental conditions acc. to		DIN EN 60068			
	Overvoltage category		III			
	Pollution degree		2			
Installation	Cross-Section Busbar		10 mm², 16 mm², 30 mm²			
	Mounting position		optional			
	Supply		Feed on terminal of the device (supply side optional) or use of feeder terminal range AST; SZ-ESK			
Accessories	Shock-protection caps		BSK, SZ-BSK			
	Feeder terminals		range AST, SZ-ESK			
	End caps		range END, PS-END, PSB-END			
Feeder Terminals AST, SZ-ESK						
Electrical Data	Max. operating voltage	V	690 V AC, 690 V DC			
	Current carrying capacity / phase	A	see below ①			
	Cross-Section	mm²	SZ-ESK	6 - 35 mm²	100 A	
				6 - 50 mm²	125 A	
		mm²	AST	6 - 25 mm²	80 A	
6 - 50 mm²				125 A		
Instruction of installation			When cutting the busbar, ensure that the insulation profile exceeds the copper bar by approx. 10 mm on each side. Shock protection only with mounted end caps ensured. For DC applications the required increased clearance and creepage distances needs to be ensured.			

① In case of feed in from the middle of the busbar it needs to be ensured, that the sum of junction currents per side must not exceed the max busbar current  $I_S$ /phase. Irrespective of the current carrying capacity ( $I_N$ ) of the busbar, the max. rated current of the devices terminal may not be exceeded.



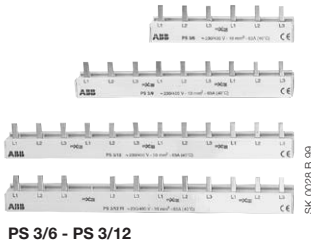
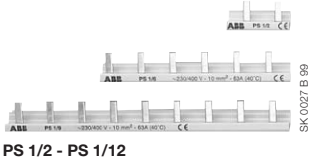
Feed in from the end of the busbar



Feed in from the middle of the busbar

# Busbars and accessories for MCBs S 200 series

## PS busbars



### Pre-assembled busbars (not to be cut)

1-phase busbars, pin distance 17.6 mm, end caps PS-END 0									
No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	4016779 EAN	Type code	Order code			
2	1	10	0.01	463003	PS1/2	2CDL 210 001 R1002		0.01	180
3	1	10	0.03	514651	PS1/3	2CDL 210 001 R1003		0.03	120
4	1	10	0.03	648233	PS1/4	2CDL 210 001 R1004		0.03	100
6	1	10	0.03	463102	PS1/6	2CDL 210 001 R1006		0.03	60
9	1	10	0.04	463201	PS1/9	2CDL 210 001 R1009		0.04	30
12	1	10	0.05	463300	PS1/12	2CDL 210 001 R1012		0.05	30
12	1	10a	0.05	682985	PS1/12A ②	2CDL 210 010 R1012		0.05	30

3-phase busbars, pin distance 17.6 mm									
No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	4016779 EAN	Type code	Order code			
6	3	10	0.04	463409	PS3/6	2CDL 231 001 R1006		0.04	60
9	3	10	0.07	463508	PS3/9	2CDL 231 001 R1009		0.07	30
12	3	10	0.10	463607	PS3/12	2CDL 231 001 R1012		0.10	30
12	3	10	0.10	463706	PS3/12FI *	2CDL 231 002 R1012		0.09	50

\* phase sequence: L1, L2, L3, free, L2, L3, L1, ...

### Busbars suitable for cutting

1-phase busbars, pin distance 17.6 mm, end caps PS-END 0									
No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	4016779 EAN	Type code	Order code			
60	1	10	0.26	514668	PS1/60	2CDL 210 001 R1060		0.26	20
60	1	10	0.26	682992	PS1/60A ②	2CDL 210 010 R1060		0.28	50
60	1	16	0.41	516655	PS1/60/16	2CDL 210 001 R1660		0.41	20
60	1	16	0.41	683005	PS1/60/16A ②	2CDL 210 010 R1660		0.39	50
5	1	30	0.04	653244	PS1/5/30 ①	2CDL 210 001 R3005		0.04	100
10	1	30	0.09	653268	PS1/10/30 ①	2CDL 210 001 R3010		0.09	100
11	1	30	0.09	653275	PS1/11/30 ①	2CDL 210 001 R3011		0.10	100
14	1	30	0.120	653282	PS1/14/30 ①	2CDL 210 001 R3014		0.120	50
15	1	30	0.130	653299	PS1/15/30 ①	2CDL 210 001 R3015		0.130	50
18	1	30	0.150	653305	PS1/18/30 ①	2CDL 210 001 R3018		0.150	50
19	1	30	0.160	653312	PS1/19/30 ①	2CDL 210 001 R3019		0.160	50
60	1	30	0.520	653596	PS1/60/30	2CDL 210 001 R3060		0.520	20

1-phase busbars, connection of 1-pole devices with auxiliary, end caps PS-END 0									
No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	4016779 EAN	Type code	Order code			
38	1	10	0.27	586139	PS1/38H	2CDL 210 001 R1038		0.27	30
38	1	16	0.45	586146	PS1/38/16H	2CDL 210 001 R1638		0.45	30

① inclusive of end caps  
② pre-cut pins

**1-phase busbars, connection of neutral (blue insulation), end caps END 1.1**

No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code			
28	1	10	0.24	629546	PS1/28N	2CDL 210 001 R1028		0.14	50
28	1	16	0.32	629560	PS1/28/16N	2CDL 210 001 R1628		0.20	50
57	1	10	0.24	579728	PS1/57NA ②	2CDL 210 011 R1057		0.14	50
57	1	10	0.24	629539	PS1/57N	2CDL 210 001 R1057		0.14	50
57	1	16	0.32	579735	PS1/57/16NA ②	2CDL 210 011 R1657		0.20	50
57	1	16	0.32	629553	PS1/57/16N	2CDL 210 001 R1657		0.20	50

**1-phase busbars, connection of auxiliaries, end caps END 1.1 except PS 1/57/6**

No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code			
23	1	6	0.16	584739	PS1/23/6	2CDL 210 005 R0623		0.09	50
29	1	6	0.14	580823	PS1/29/6	2CDL 210 005 R0629		0.10	50
38	1	6	0.14	580816	PS1/38/6	2CDL 210 005 R0638		0.09	50
57	1	6	0.11	585309	PS1/57/6	2CDL 210 005 R0657		0.08	50

**1-phase busbars, connection of hand operated neutral S2C-Nt (blue insulation), end caps END 1.1**

No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code			
38	1	10	0.410	655361	PS1/38 NT	2CDL 210 002 R1038			10

**2-phase busbars, pin distance 17.6 mm, end caps PS-END**

No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code			
12	2	10	0.07	556521	PS2/12 ①	2CDL 220 001 R1012		0.08	50
12	2	10	0.07	584616	PS2/12A ①②	2CDL 220 010 R1012		0.08	50
12	2	16	0.11	646918	PS2/12/16	2CDL 220 001 R1612		0.09	50
58	2	10	0.32	556552	PS2/58	2CDL 220 001 R1058		0.36	10
58	2	16	0.55	556569	PS2/58/16	2CDL 220 001 R1658		0.49	10
58	2	16	0.55	584746	PS2/58/16A ②	2CDL 220 010 R1658		0.49	10
58	2	30	1.81	654272	PS2/58/30 ③④	2CDL 220 001 R3058		1.81	10

Note: PS...A is a busbar with removable pin

**2-phase busbars, connection of 2-pole devices with auxiliary, end caps PS-END**

No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code			
48	2	10	0.47	556538	PS2/48H	2CDL 220 001 R1048		0.35	10
48	2	16	0.68	556545	PS2/48/16H	2CDL 220 001 R1648		0.48	10
48	2	16	0.68	584630	PS2/48/16HA ②	2CDL 220 012 R1648		0.48	10

① inclusive of end caps

② pre-cut pins

③ use end cap PS-END 3

④ removal of installed MCB not possible

# Busbars and accessories for MCBs S 200 series

## PS busbars

4

### 3-phase busbars, pin distance 17.6 mm, end caps PS-END

No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code			
11	3	10	0.10	649926	PS3/11 ①	2CDL 230 001 R1011		0.08	50
12	3	10	0.09	576116	PS3/12 ①	2CDL 230 001 R1012		0.09	50
12	3	10	0.09	584647	PS3/12A ①②	2CDL 230 010 R1012		0.09	50
12	3	16	0.16	562805	PS3/12/16①	2CDL 230 001 R1612		0.12	50
60	3	10	0.51	514699	PS3/60	2CDL 230 001 R1060		0.47	10
60	3	10	0.51	563758	PS3/60A ②	2CDL 230 010 R1060		0.47	10
60	3	16	0.76	514705	PS3/60/16	2CDL 230 001 R1660		0.65	10
60	3	16	0.76	563765	PS3/60/16A ②	2CDL 230 010 R1660		0.65	10
60	3	30	2.65	654289	PS3/60/30 ③⑤	2CDL 230 001 R3060		2.65	10

### 3-phase busbars, connection of 1-pole devices with auxiliary, end caps PS-END

No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code			
39	3	10	0.51	556590	PS3/39H	2CDL 230 001 R1039		0.43	10
39	3	16	0.76	556606	PS3/39/16H	2CDL 230 001 R1639		0.60	10

### 3-phase busbars, connection of 2-pole devices (Phase+N) with auxiliary, end caps PS-END

No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code			
24	3	10	0.80	556576	PS3/24H	2CDL 230 001 R1024		0.41	10

### 3-phase busbars, connection of 2-pole devices (Phase+Phase) with auxiliary, end caps PS-END

No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code			
46	3	16	0.98	662109	PS3/46/16H-IT	2CDL 230 001 R1646		0.98	10

### 3-phase busbars, connection of 3-pole devices with auxiliary, end caps PS-END

No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code			
48	3	10	0.51	556613	PS3/48H	2CDL 230 001 R1048		0.43	10
48	3	16	0.76	556644	PS3/48/16H	2CDL 230 001 R1648		0.60	10
48	3	16	0.76	584654	PS3/48/16HA ②	2CDL 230 012 R1648		0.60	10

### 3-phase busbars, connection of 1+N or RCBOs, end caps PS-END

No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code			
30	3	10	0.50	556583	PS3/30	2CDL 230 001 R1030		0.42	10

- ① inclusive of end caps
- ② pre-cut pins
- ③ use end cap PS-END 3
- ④ use end cap PS-END 3.1
- ⑤ removal of installed MCB not possible

**3-phase busbars, N of the RCD omitted, end caps PS-END**

No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code			
9	3	10	0.10	517515	PS3/9FI ①	2CDL 230 002 R1009		0.06	50
10	3	10	0.10	517522	PS3/10FI ①	2CDL 230 002 R1010		0.07	50
12	3	10	0.11	571074	PS3/12FI ①	2CDL 230 002 R1012		0.09	50
57	3	10	0.55	556651	PS3/57FI	2CDL 230 002 R1057		0.46	10

**3-phase busbars, N of the RCD omitted, with auxiliary at RCD end caps PS-END**

No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code			
12	3	10	0.11	571081	PS3/12FIH ①	2CDL 230 003 R1012		0.09	50

**4-phase busbars, pin distance 17.6 mm, end caps PS-END 1**

No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code			
12	4	10	0.12	656054	PS4/12 ①	2CDL 240 101 R1012		0.11	30
12	4	10	0.12	656061	PS4/12A ①②	2CDL 240 110 R1012		0.11	30
12	4	16	0.24	656078	PS4/12/16 ①	2CDL 240 101 R1612		0.16	30
60	4	10	0.80	656085	PS4/60	2CDL 240 101 R1060		0.64	10
60	4	16	1.21	656092	PS4/60/16	2CDL 240 101 R1660		0.89	10
60	4	16	1.21	656108	PS4/60/16A ②	2CDL 240 110 R1660		0.89	10
60	4	30	3.37	654296	PS4/60/30 ④⑤	2CDL 240 001 R3060		3.37	10

Note: PS...A is a busbar with removable pin

**4-phase busbars, connection of 4-pole devices with auxiliary, end caps PS-END 1**

No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code			
52	4	16	1.30	656115	PS4/52/16H	2CDL 240 101 R1652		0.78	10
52	4	16	1.30	656122	PS4/52/16HA ②	2CDL 240 212 R1652		0.78	10

**4-phase busbars, connection of 1+N or RCBOs, end caps PS-END 1**

No. of pins	Phases	mm <sup>2</sup>	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code			
12	4	10	0.14	656139	PS4/12NA ①②	2CDL 240 213 R1012		0.10	30
58	4	10	0.80	656146	PS4/58N	2CDL 240 101 R1058		0.59	10
58	4	16	1.21	656153	PS4/58/16N	2CDL 240 101 R1658		0.77	10
58	4	16	1.21	656221	PS4/58/16NA ②	2CDL 240 213 R1658		0.77	10

- ① inclusive of end caps  
 ② pre-cut pins  
 ③ use end cap PS-END 3  
 ④ use end cap PS-END 3.1  
 ⑤ removal of installed MCB not possible



# Busbars and accessories for MCBs S 200 series

## PS busbars

4-phase busbars, connection of 1+N or RCBOs with auxiliary, end caps PS-END 1									
No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code			
48	4	16	1.48	656160	PS4/48/16NHA ①	2CDL 240 114 R1648		0.76	10

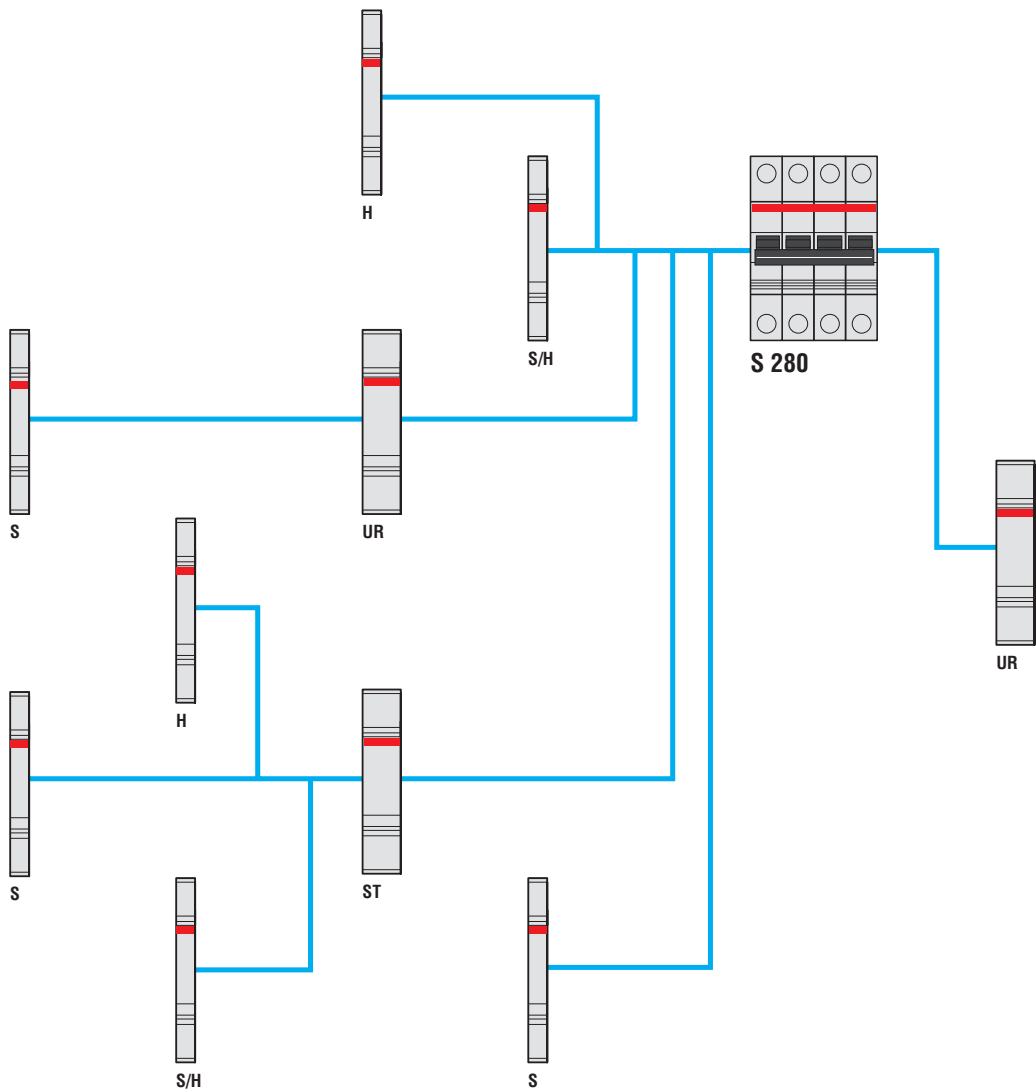
4-phase busbars, connection of 4-pole RCD with 1+N , end caps PS-END 1									
No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code			
58	4	10	0.80	656177	PS4/58NNA ①	2CDL 240 110 R1058		0.58	10
58	4	16	1.21	656184	PS4/58/16NNA ①	2CDL 240 110 R1658		0.80	10

① pre-cut pins

# Auxiliary elements for MCBs S 280 UC series

## Selection table

Combination between auxiliary elements and S 280 UC



H	Auxiliary contact
S	Signal contact
UR	Undervoltage release
ST	Shunt trip

# Auxiliary elements for MCBs S 280 UC series

## Technical features

4

Shunt trips				
		S2-A1		S2-A2
Rated voltage	V AC	12 - 60 V AC		110 - 415 V AC
	V DC	12 - 60 V DC		110 - 250 V DC
Max. release duration	ms	<10 ms		<10 ms
Min. release voltage	V AC	7 V AC		55 V AC
	V DC	10 V DC		80 V DC
Consumption on release	12 V AC	VA	35 VA	
	12 V DC	VA	30 VA	
	24 V AC	VA	140 VA	
	24 V DC	VA	100 VA	
	48 V AC	VA	600 VA	
	48 V DC	VA	330 VA	
	110 V AC	VA		40 VA
	110 V DC	VA		40 VA
	220 V AC	VA		180 VA
	220 V DC	VA		170 VA
Coil resistance	Ω	3.7 Ω		225 Ω
Terminals	mm²	25 mm²		25 mm²
Tightening torque	Nm	2 Nm		2 Nm
Dimens.(WxDxH)	mm	17.5x68x90 mm		17.5x68x90 mm

Undervoltage releases							
		S2-UA 12	S2-UA 24	S2-UA 48	S2-UA 110	S2-UA 220	S2-UA 380
Standards		VDE0660 part I - IEC EN 60947.1					
Rated voltage	V AC	-	24 V AC	48 V AC	110 V AC	220-240 V AC	380 V AC
	V DC	12 V DC	24 V DC	-	110 V DC	220-240 V DC	380 V DC
Frequency	Hz	50...60 Hz					
Release trip	V	$0.35 U_n \leq V \leq 0.7 U_n$					
Terminals	mm²	2 x 1.5 mm²					
Consumption	mA	10 mA					
Resistance to corrosion	°C/RH	const. climatic cond.: 23/83-40/93-55/20 °C/RH; var. climatic cond.: 25/95-40/93 °C/RH					
Protection degree		IP20					
Tightening torque	Nm	0.4 Nm					
Dimensions (WxDxH)	mm	17.5x68x90 mm					

### Auxiliary and signal contacts

		S2-H11 I S2-H11 X	S2-H20 I S2-H20 X	S2-H02 I S2-H02 X	S2-H21	S2-H12	S2-H30	S2-H03
Description		1NO+1NC	2NO	2NC	2NO+1NC	1NO+2NC	3NO	3NC
Alternating current	$U_e$ [V]/ $I_e$ [A]	240 V/6 A, 415 V/2 A						
Direct current	$U_e$ [V]/ $I_e$ [A]	24 V/4 A, 60 V/2 A, 110 V/1.5 A, 250 V/1 A						
Min.operating voltage	V	12 V AC - 12 V DC						
Min. operating current	mA	12 mA						
Terminals	mm <sup>2</sup>	up to 2x1.5 mm <sup>2</sup>						
Dielectric strength	kV	3 kV						
Resistance to short-circuit at 240 V AC	A	1000 A (protected with S 2 breaker characteristic K - 6 A)						
Impulse voltage withstand capacity	kV	4 kV						
Tightening torque	Nm	0.7 Nm						
Dimensions (WxDxH)	mm	8.75x68x90 mm						

### Auxiliary and signal contacts

		S2-S	S2-SH
Description		1 change over	2 change over
Alternating current	$U_e$ [V]/ $I_e$ [A]	240 V/6 A, 415 V/2 A	
Direct current	$U_e$ [V]/ $I_e$ [A]	250 V/0.5 A, 110 V/1 A, 60 V/1 A, 24 V/4 A	
Min.operating voltage	V	12 V AC - 12 V DC	
Min. operating current	mA	12 mA	
Terminals	mm <sup>2</sup>	up to 2x1.5 mm <sup>2</sup>	
Dielectric strength	kV	3 kV	
Resistance to short-circuit at 240 V AC	A	1000 A (protected with S 2 breaker characteristic K - 6 A)	
Impulse voltage withstand capacity	kV	4 kV	
Tightening torque	Nm	0.7 Nm	
Dimensions (WxDxH)	mm	8.75x68x90 mm	

# Auxiliary elements for MCB S 280 UC series



2CSC400495F0201

### Shunt trips

Function: remote opening of the device when a voltage is applied

	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
12-60 VAC/VDC shunt trip	42930 1	S2-A1	GH S280 1909 R0001		0.145	1
110-415 VAC and 110-250 VDC shunt trip	42940 0	S2-A2	GH S280 1909 R0002		0.145	1

### Auxiliary contacts

Function: indication of the position of the device's contacts

### Signal contacts

Function: indication of the position of the device's contacts only after the automatic release of the MCBs and RCBOs due to an overload or a short-circuit

	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Auxiliary contact 1 NO + 1 NC (1/2 module)	61500 1	S2-H11	GH S270 1916 R0001		0.04	1
Auxiliary contact 2 NO (1/2 module)	61510 0	S2-H20	GH S270 1916 R0002		0.04	1
Auxiliary contact 2 NC (1/2 module)	61520 9	S2-H02	GH S270 1916 R0003		0.04	1
Auxiliary contact 1 NO + 1 NC (1/2 module)	61530 8	S2-H11X	GH S270 1917 R0001		0.04	1
with Faston connections						
Auxiliary contact 2 NO (1/2 module) with Faston connections	61540 7	S2-H20X	GH S270 1917 R0002		0.04	1
Auxiliary contact 2 NC (1/2 module) with Faston connections	61550 6	S2-H02X	GH S270 1917 R0003		0.04	1
Auxiliary contact 2 NO + 1 NC (1/2 module)	01370 3*	S2-H21	GH S270 1936 R0001		0.05	1
Auxiliary contact 1 NO + 2 NC (1/2 module)	01380 2 *	S2-H12	GH S270 1936 R0002		1	
Auxiliary contact 3 NO (1/2 module)	01390 1*	S2-H30	GH S270 1936 R0003		0.05	1
Auxiliary contact 3 NC (1/2 module)	01400 7*	S2-H03	GH S270 1936 R0004		0.05	1
Signal contact (1/2 module)	12770 7*	S2-S	GH S280 1902 R0008		0.07	1
Signal contact + Auxiliary contact (1/2 module)	42900 4	S2-S/H	GH S280 1901 R0008		0.05	1

\* Bbn 4016779



2CSC400497F0201



2CSC400498F0201



2CSC400499F0201



### Undervoltage releases

Function: protection of the load in the event of a voltage drop (between 70% and 35% of its rated value); positive safety (device's tripping when the voltage is disconnected) emergency stop by means of a button.

Rated voltage*	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
V AC, V DC	EAN	Type code	Order code		kg	pc.
12V DC	42970 7	S2-UA 12	GH S280 1911 R0001		0.09	1
24V AC/DC	42980 6	S2-UA 24	GH S280 1911 R0002		0.09	1
48V AC/DC	79360 0	S2-UA 48	GH S280 1911 R0003		0.09	1
110V AC/DC	43000 0	S2-UA 110	GH S280 1911 R0004		0.09	1
220V AC/DC	43010 9	S2-UA 220	GH S280 1911 R0005		0.09	1
380V AC	79370 9	S2-UA 380	GH S280 1911 R0006		0.09	1

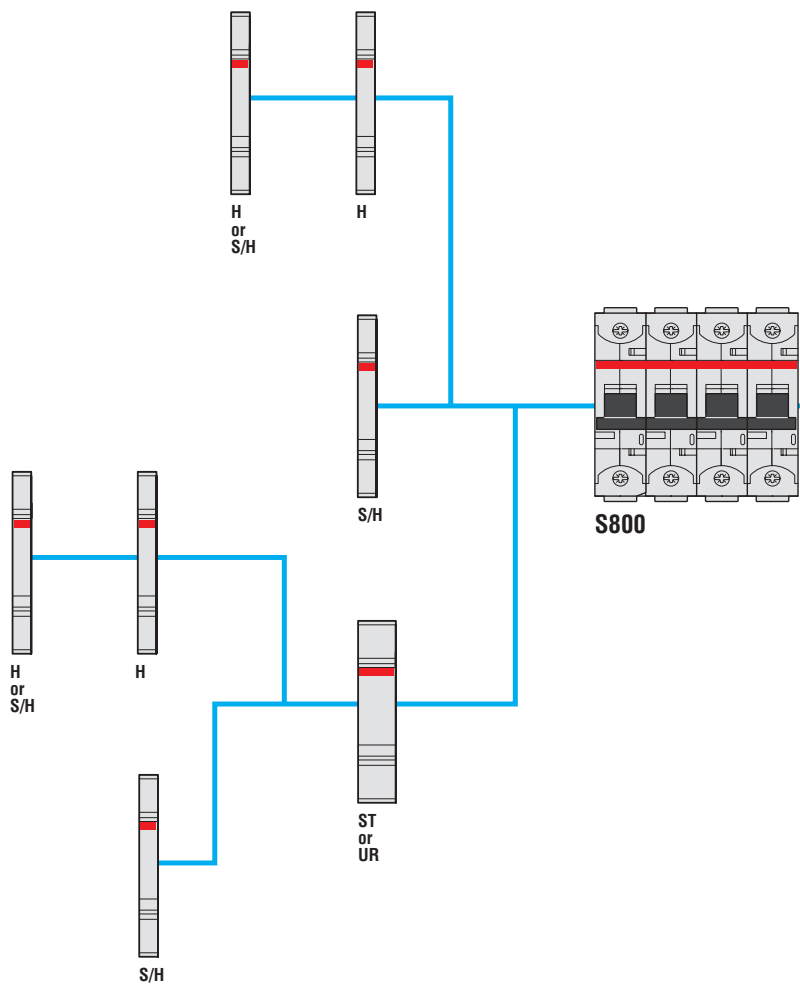
\* 1 module

# Auxiliary elements for MCBs S800 S series

## Selection table

Combination between auxiliary elements and S800 S

4



H	Auxiliary contact
S/H	Signal/Auxiliary contact
UR	Undervoltage release
ST	Shunt trip

# Auxiliary elements for S800 S

## Remote switch unit S800-RSU-H

Operating voltage	[V]	24 DC
Current consumption $I_{rms}$	[A]	2,5
Stand-by current	[mA]	< 50
Switching time OFF-ON	[ms]	< 500
Switching time ON-OFF	[ms]	< 250
Ambient operation temperature	[°C]	-25...+70
Switching cycles over lifetime		10000
Standard		IEC 60947-2 Annex N
Protection		IP20
Weight	[g]	300
Connection		10 pole Micro Fit 3,0

## Short circuit limiter S803S-SCL

Max. rated continuous current $I_n$	[A]	32, 63, 125
Poles		3
Rated operating voltage $U_e$ (AC) 50/60Hz	[V]	400/690
Rated insulation voltage $U_i$	[V]	690
Rated impulse withstand voltage $U_{imp}$	[kV]	8
Ultimate short-circuit breaking capacity $I_{cu}$ in accordance with IEC 60947-2	400VAC [kA] 440VAC [kA] 690VAC [kA]	100 100 50
Valid combination see: <a href="http://www.abb.com/product">http://www.abb.com/product</a> Low Voltage Products and Systems/Modular DIN-Rail Products/High Performance Circuit Breakers HPCBs/Software		
Service short-circuit breaking capacity $I_{cs}$ in accordance with IEC 60947-2		100% $I_{cu}$
Rated frequency	[Hz]	50/60
Mounting position		any
Disconnecter properties according to IEC 60947-2		yes
Standard		IEC 60947-2
Connection Cu	[mm <sup>2</sup> ]	1...25 strand 1...35 cable
Connection Cu > 32 A	[mm <sup>2</sup> ]	6...50 strand 6...70 cable
Tightening torque	[Nm]	min. 3/max. 4
Supply		any
Mounting on DIN top hat rail		EN 60715
Permissible ambient temperature for operations	[°C]	-25...+60
Storage temperature	[°C]	-40...+70
Type of protection		IP20 IP40 (only actuation side)
Classification in accordance with NF-16-101, NF16-102		I3F2
Resistance to vibration		IEC 60068-2-27; IEC 60068-2; EN 61373 Cat.1/class B



# Auxiliary elements for S800 S

4

Rated current $I_n$	Internal resistance $R_i$	Power loss $P_v$
[A]	[mΩ]	[W]
32	1.7	1.7
63	1.0	4.0
125	0.6	9.4

Auxiliary contact S800-AUX		
Utilization category		AC15 400/2A AC15 240/6A DC13 250/0.55A DC13 125V/1.1A DC13 60V/2A DC13 24V/4A
Continuous thermal current $I_n$	[A]	6
Rated insulation voltage $U_i$	[V]	690
Number of contacts		2
Rated impulse withstand voltage $U_{imp}$	[kV]	6
Pollution degree		3
Function of contact		Changeover contacts
Connection Cu	[mm²]	1 x 2.5 2 x 1.5
Tightening torque	[Nm]	1
AC/DC supply		any
Mounting on DIN top hat rail		EN 60715
Type of protection		IP20
Permissible ambient temperature for operations	[°C]	-25...+60
Storage temperature	[°C]	-40...+70
Mech. device service life		6000 switching cycles
$I_{cu}$ with S450E	[A]	1000
Resistance to vibration		IEC 60068-2-6; EN 61373 Cat.1/class B 5g, 20 frequency cycle 5...150...5Hz at 24V AC/DC, 5mA brief interrupt <10ms

#### Combined auxiliary and signal contact S800 AUX/ALT

Utilization category		AC15 400/2A
		AC15 240/6A
		DC13 250/0.55A
		DC13 125V/1.1A
		DC13 60V/2A
		DC13 24V/4A
Continuous thermal current $I_n$	[A]	6
Rated insulation voltage $U_i$	[kV]	690
Number of contacts		2 (1x AUX, 1 x AUX/ALT)
Rated impulse withstand voltage $U_{imp}$	[kV]	6
Pollution degree		3
Function of contact		Changeover contacts
Connection Cu	[mm <sup>2</sup> ]	1 x 2.5
		2 x 1.5
Tightening torque	[Nm]	1
AC/DC supply		any
Mounting on DIN top hat rail		EN 60715
Type of protection		IP20
Permissible ambient temperature for operations	[°C]	-25...+60
Storage temperature	[°C]	-40...+70
Mech. device service life		6000 switching cycles
$I_{cu}$ with S450E	[A]	1000
Resistance to vibration		IEC 60068-2; EN 61373 Cat.1/class B 5g, 20 frequency cycle 5...150...5Hz at 24V AC/DC, 5mA brief interrupt <10ms

# Auxiliary elements for S800 S

4

Shunt Operation Release S800-SOR			S800-SOR24	S800-SOR130	S800-SOR250	S800-SOR400
Rated voltage U <sub>e</sub>	[V AC/DC]		24	48...130	110...250	220...400/250 a
Operating range	[%] U <sub>e</sub>		70...110			
Rated insulation voltage U <sub>i</sub>	[V]		690			
Coil pull in consumption	[W/VA]		1.6/17 a	41.9...307.3	23...119	45...148.1
				42...310 ①	20...105 ①	
Rated frequency	[Hz]		DC; 50/60			
Pollution degree			3			
Connection Cu	[mm²]		1...25 strand			
			1...35 cable			
Tightening torque	[Nm]		min.3/ max.4			
AC/DC supply			any			
DIN top hat rail			EN 60715			
Type of protection			IP20			
			IP40 (only actuation side)			
Permissible ambient temperature of operations	[°C]		-25...+60			
Storage temperature	[°C]		-40...+70			
Resistance to vibration			IEC 60068-2-6; EN61373 Cat.1/class B			

① according to UL 489

Undervoltage Release S800-UVR			S800-UVR36	S800-UVR60	S800-UVR130	S800-UVR250
Rated voltage U <sub>e</sub>	[V AC/DC]		24...36	48...60	110...130	220...250
Operating range	Operating opening	[%] U <sub>e</sub>	35...70			
	Operating closing	[%] U <sub>e</sub>	85			
Rated insulation voltage U <sub>i</sub>	[V]		690			
Coil pull in consumption	[W/VA]		1.1...1.14/1.2	1.14...1.25/1.3 ①	1.3...1.41/1.4 ①	1.71...1.91/1.9 ①
Rated frequency	[Hz]		DC; 50/60			
Pollution degree			3			
Standard			IEC 60947-5-1, UL 489			
Connection Cu	[mm²]		1...25 strand			
			1...35 cable			
Tightening torque	[Nm]		min.3/ max.4			
AC/DC supply			any			
DIN top hat rail			EN 60715			
Type of protection			IP20			
			IP40 (only actuation side)			
Permissible ambient temperature of operations	[°C]		-25...+60			
Storage temperature	[°C]		-40...+70			
Resistance to vibration			IEC 60068-2-6; EN61373 Cat.1/class B			

① according to UL 489

**Busbar S803-BB250**

Max. rated continuous current $I_n$	Side supply	[A]	125
	Central supply	[A]	250
Conditional short circuit current $I_p$		[kA eff]	100 protected by $T_{max}$
Poles			3
Rated operating voltage $U_e$ (AC) 50/60Hz		[V]	400/690
Rated insulation voltage $U_i$		[V]	690
Rated impulse withstand voltage $U_{imp}$		[kV]	8
Rated frequency		[Hz]	50
Standards			EN 60439-2:2000
Material of the bars			E-Cu 58 half-hard rolled F25
Material of the insulation profile			Cyclopol C 3600; UL94 V-0 at 1,5 mm
Material of the end caps			Polyamide PA66+PA6; UL94 V-0 at 0.4mm Free of halogen and phosphorus
Busbar cross-sections		[mm <sup>2</sup> ]	60
Overvoltage category			III
Pollution degree			2

**Busbar Power Connector S803-BBPC120**

Max. rated continuous current $I_n$		[A]	250
Poles			3
Rated operating voltage $U_e$		[V]	400/690
Rated frequency		[Hz]	50
Standards			EN 60439-2:2000
Material of the terminals			CuZn39Pb2; material no.: 2.0380
Casing material			Polyamide PA66+PA6; UL94 V-0 at 0,4mm Free of halogen and phosphorus
Tightening torque			
At supply end		[Nm]	19
At busbar end		[Nm]	3
Connection cross-section		[mm <sup>2</sup> ]	1,6...120
Pollution degree			2

# Accessories for S800

4



2CCS413069F0001



2CCS413070F0001



2CCS413087F0001



2CCS413239F



2CCS413240F



2CCS400025F0002

breaker is not included

Auxiliary contact						
Description	Bbn	Order details		Price	Weight	Pack
	7612271			1 piece	1 piece	unit
	EAN	Type code	Order code		kg	pc.
Auxiliary contact	206802	S800-AUX	2CCS800900R0011		0.049	1

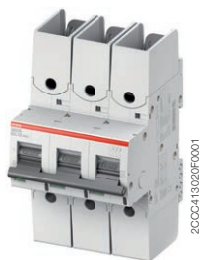
Combined auxiliary and signal contact						
Description	Bbn	Order details		Price	Weight	Pack
	7612271			1 piece	1 piece	unit
	EAN	Type code	Order code		kg	pc.
Auxiliary/signal contact	206819	S800-AUX/ALT	2CCS800900R0021		0.050	1

Separating neutral						
Description	Bbn	Order details		Price	Weight	Pack
	7612271			1 piece	1 piece	unit
	EAN	Type code	Order code		kg	pc.
Separating neutral 63A	208196	S800-NT	2CCS800900R0061		0.115	1

Shunt operation releases						
Description	Bbn	Order details		Price	Weight	Pack
	7612271			1 piece	1 piece	unit
	EAN	Type code	Order code		kg	pc.
2VAC/DC	212070	S800-SOR12	2CCS800900R0191		0.15	1
24VAC/DC	208318	S800-SOR24	2CCS800900R0191		0.15	1
48...130VAC/DC	208349	S800-SOR130	2CCS800900R0221		0.15	1
110...250VAC/DC	208332	S800-SOR250	2CCS800900R0211		0.15	1
220...400VAC/DC	208356	S800-SOR400	2CCS800900R0231		0.15	1

Under voltage releases						
Description	Bbn	Order details		Price	Weight	Pack
	7612271			1 piece	1 piece	unit
	EAN	Type code	Order code		kg	pc.
24...36VAC/DC	208363	S800-UVR36	2CCS800900R0241		0.15	1
48...60VAC/DC	208370	S800-UVR60	2CCS800900R0251		0.15	1
110...130VAC/DC	208387	S800-UVR130	2CCS800900R0261		0.15	1
220...250VAC/DC	208394	S800-UVR250	2CCS800900R0271		0.15	1

Remote switching unit						
Description	Bbn	Order details		Price	Weight	Pack
	7612271			1 piece	1 piece	unit
	EAN	Type code	Order code		kg	pc.
Remote switching unit	411244	S800-RSU-H	2CCS800900R0501		0.300	1



#### Cable and Micro Fit

Description	Bbn 7612271	Order details	Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
S800-RSU cable with plug	412869	S800-RSU-CP	2CCS800900R0541	0.35	1
10-pole Micro Fit 3.0 plug	412845	S800-RSU-P	2CCS800900R0551	0.35	1

#### Short-circuit current limiters with cage terminal

Description	Bbn 7612271	Order details	Price 1 piece	Weight 1 piece	Pack unit
A	EAN	Type code	Order code	kg	pc.
32	208912	S803S-SCL32	2CCS800900R0291	0.735	1
63	208929	S803S-SCL63	2CCS800900R0301	0.735	1
125	208905	S803S-SCL125	2CCS800900R0281	0.735	1

#### Short-circuit current limiters with ring terminal cable connection

Description	Bbn 7612271	Order details	Price 1 piece	Weight 1 piece	Pack unit
A	EAN	Type code	Order code	kg	pc.
32	408916	S803S-SCL32-R	2CCS800900R0332	0.735	1
63	208950	S803S-SCL63-R	2CCS800900R0331	0.735	1
125	208936	S803S-SCL125-R	2CCS800900R0311	0.735	1

#### Self-resetting short-circuit limiter IEC version

Description	Bbn 7612271	Order details	Price 1 piece	Weight 1 piece	Pack unit
A	EAN	Type code	Order code	kg	pc.
32	412012	S801S-SCL32-SR	2CCS801901R0539	0.25	1
63	412036	S801S-SCL63-SR	2CCS801901R0599	0.25	1
100	411992	S801S-SCL100-SR	2CCS801901R0639	0.25	1
32	412074	S802S-SCL32-SR	2CCS801901R0539	0.5	1
63	412098	S802S-SCL63-SR	2CCS801901R0599	0.5	1
100	412050	S802S-SCL100-SR	2CCS801901R0639	0.5	1
32	411930	S803S-SCL32-SR	2CCS803901R0539	0.75	1
63	411947	S803S-SCL63-SR	2CCS803901R0599	0.75	1
100	411954	S803S-SCL100-SR	2CCS803901R0639	0.75	1

#### Self-resetting short-circuit limiter World version

Description	Bbn 7612271	Order details	Price 1 piece	Weight 1 piece	Pack unit
A	EAN	Type code	Order code	kg	pc.
32	412319	S803W-SCL32-SR	2CCS803917R0539	0.75	1
63	412326	S803W-SCL63-SR	2CCS803917R0599	0.75	1
100	412302	S803W-SCL100-SR	2CCS803917R0639	0.75	1

#### Busbar

Description	Bbn 7612271	Order details	Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
Busbar 250 A	208288	S803-BB250	2CCS800900R0071	1.5	1