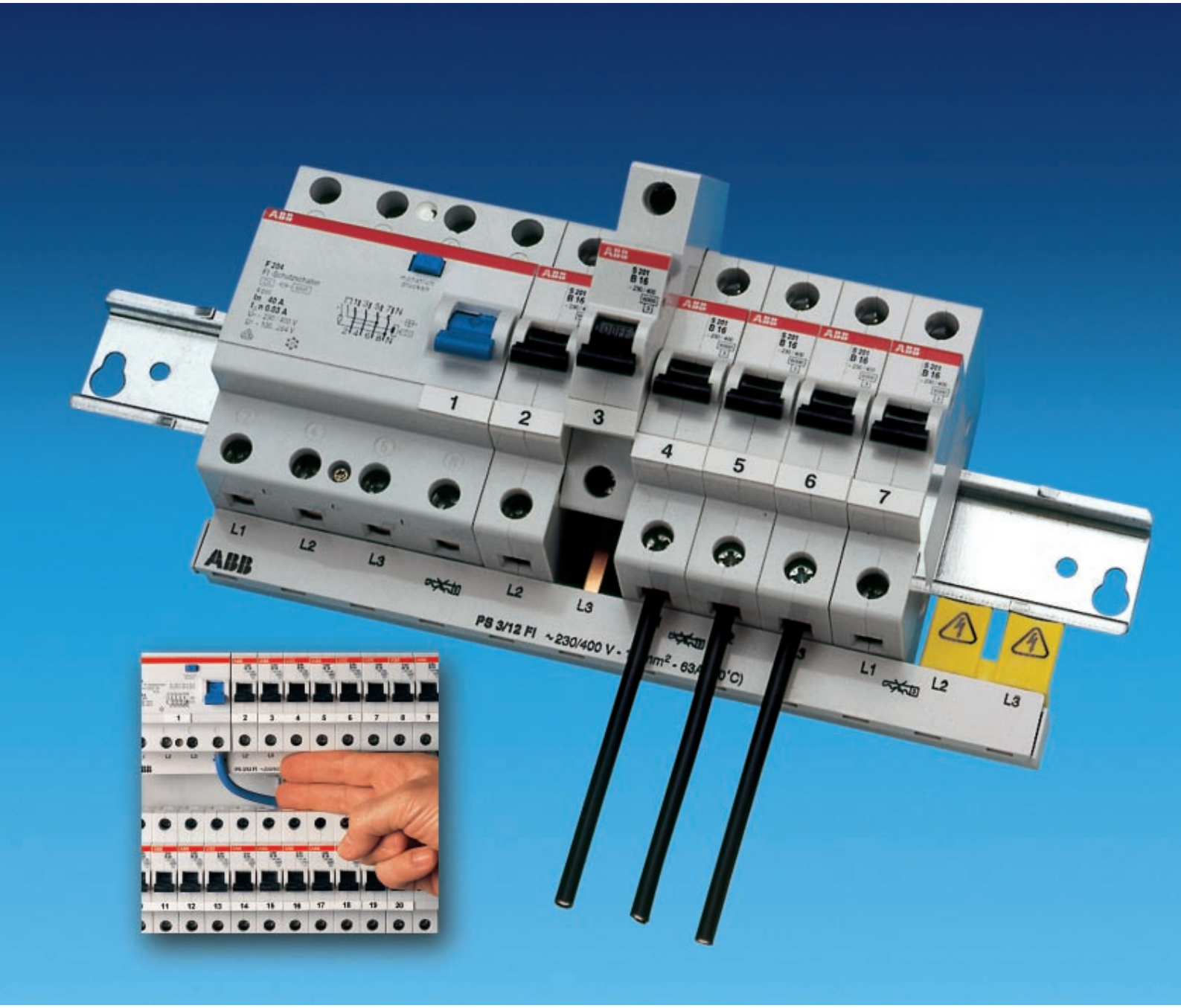
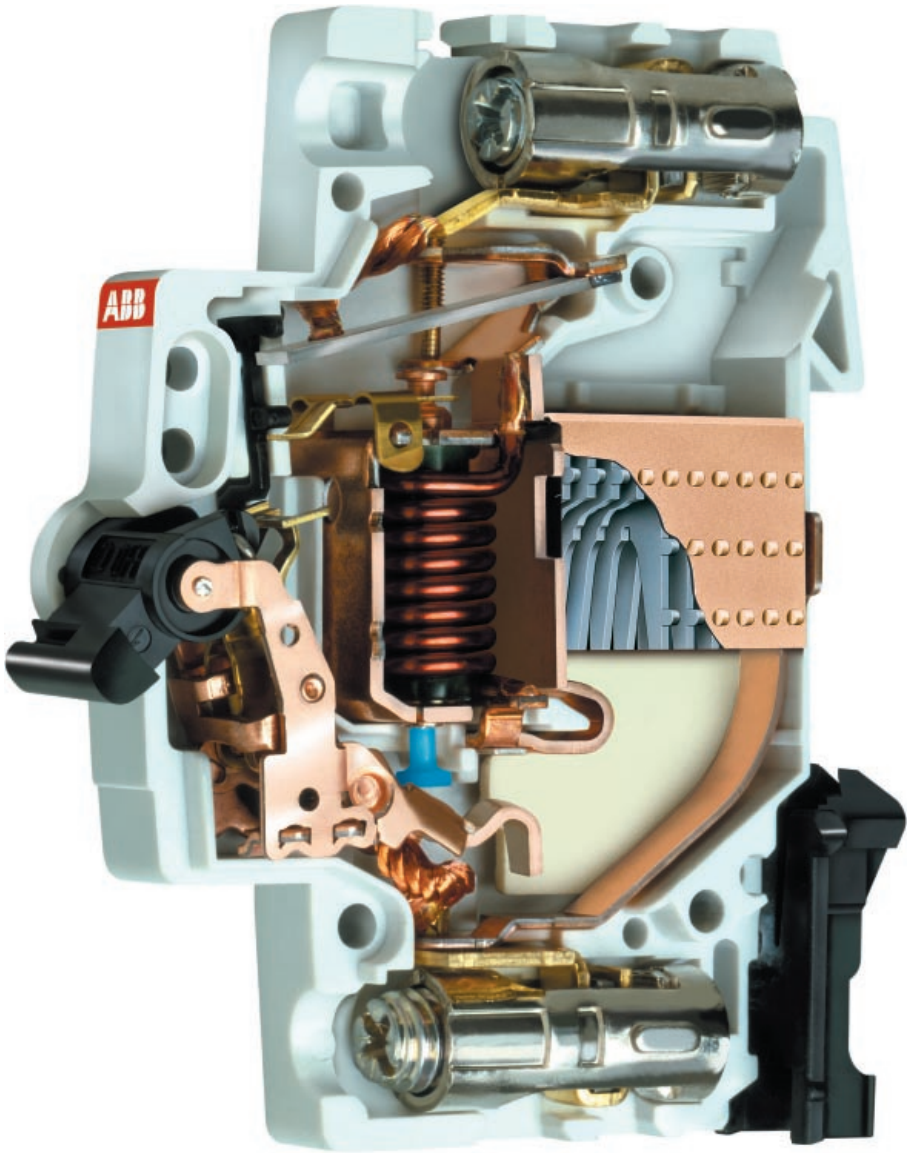
Technical data

Navigate Document

System pro *M* compact ®

Miniature circuit-breakers S 200/S 200 M
Residual-current-operated
circuit-breakers F 200
Cross wiring/accessories





Standard Terms for Delivery and Sale
For domestic business, the Standard Terms for Delivery of Products and Services of the Electrical Industry (ABB Form 2292) shall apply in connection with the Standard Sales Terms (ABB Form 2327) in their then applicable version. For foreign business, the Standard Terms for Delivery of Products and Services of the Electrical Industry (ABB Form 2293 German-English, or ABB Form 2294 German- French) shall apply in connection with the Standard Sales Terms (ABB-Form 2381 English) in their then applicable version.

Warranty
We assume warranty in accordance with the standard sales and delivery terms.
Complaints shall be made in writing within eight days following receipt of the goods.

Technical information and illustrations are not binding and subject to change without notice.

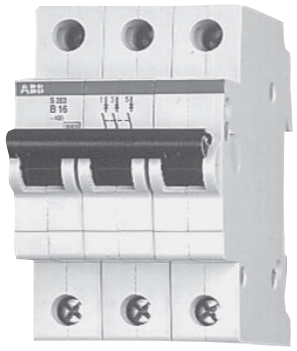
System pro *M* compact ®

Miniature circuit-breakers
Residual-current-operated circuit breaker
Busbars

Contents page

Prior to connection of aluminium conductors ($\geq$ 4 mm^2) ensure that their contact points are cleaned, brushed and coated with grease.

Outstanding features
Applications



SK 0049 B 99

- All round protection against contact with live parts in acordance with DIN VDE 106 part 100.

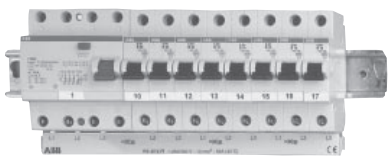
SK 0048 B 99

- Due to new design: Upper and lower shoulders reduced.
  More working space between component rows.
  Outgoing and incoming connection points easily accessible.

SK 0053 B 99

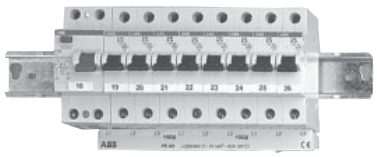
- New, failsafe, bi-directional cylinder lift terminal, ensuring a faster, totally error-free connection.
  As you tighten the screw, the terminal draws together to simultaneously close the front and rear wiring inputs.
  This creates a strong, contactassured connection between the wires and the device, in a single operation.
  Busbar is installed at the back terminals (A). Connection of conductors on the front terminals (B).
  Result: a clear view on all connection points.
  Never fumble for the right connection point again.
  Substantially improved cross-wiring safety.
  Tangible time-savings.

- Connection possible for single, multi and finely stranded conductors of 0.75 to 25 mm^2.
  It is also possible to connect conductors with different cross section at the same time.



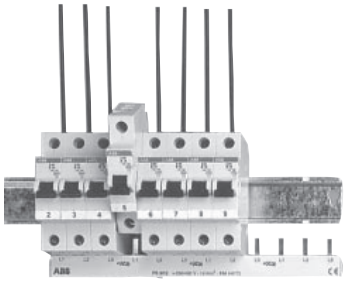
SK 0052 B 99

- New cross wiring busbars.
  Standard length sizes or meter length cutable.



SK 0051 B 99

Outstanding features
Applications



SK 0050 B 99

- New quick-fastening technique for easy disconnection of the device from the assembly.

  No time-consuming extra work:
  Cross-wiring remains with the assembly.
  To remove the device, just loosen the screw, lift the device and pull it out.

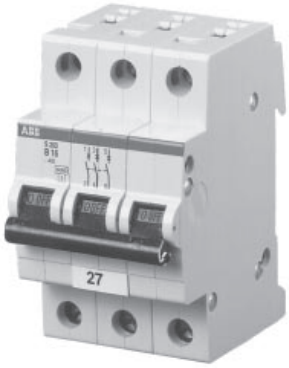
  If neccessary, all devices of the series connected to the new pro M compact cross-wiring rails may be exchanged easily and quickly, e.g. to implement the adaptation to the VDE standard 0100 part 410.

  Easy to add on MCB for extensions.

SK 010 B 01

- New, integrated auxiliary contact, factory fitted, reduces space by 50 %.

  Cross wiring to customary compact busbar possible.



SK 0047 B 99

- Self-adhesive identification labels are provided for all devices, ensuring clear and accurate identification.

  Every detail of System pro M compact has now been optimised to meet the user's requirements.

  Fuirthermore, System pro M compact offers you many different ways to label the switchgear cabinet and built-in consumer unit in a professional manner.

  Individual, effecient labeling of devices.

SK 0045 B 99

- Pad lock prevents unauthorized switching to ON or OFF.

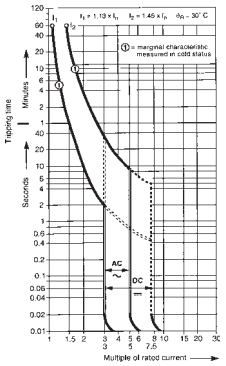
- Complete range of tripping characteristics in B, C, D, K, Z.

- High rated switching capacity of 6 000 A (S 200) or 10 000 A (S 200 M).

- Current limitation is below the values prescribed by the VDE, therefore higher selectivity rating than energy limitation class 3.

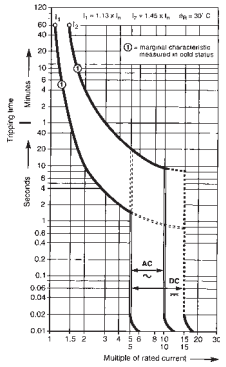
- Disconnector abilities according to DIN VDE 0660 part 107, surge withstand capability 6 kV (1.2/50).

Trip charcteristics



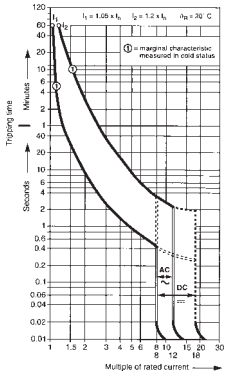
B

SK 0126 Z 00



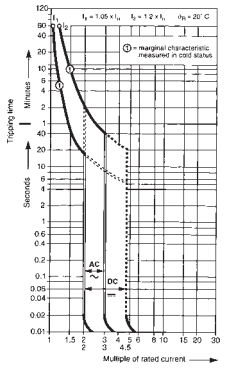
C

SK 0128 Z 00



K

SK 0142 Z 00



Z

SK 0146 Z 00

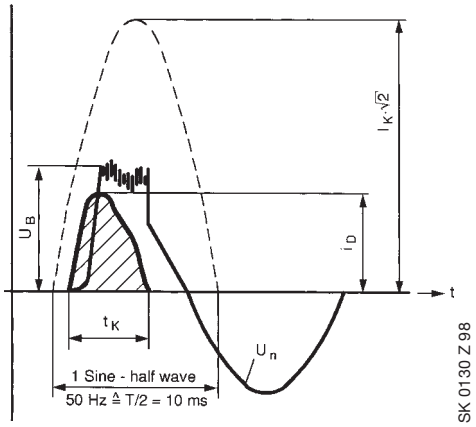
Description

The MCBs of the S 200/S 200 M series have a current-limiting effect. They have two different trip releases acting on the contact mechanism

1. the delayed thermal release providing overload protection
2. the electromagnetic instantaneous release with "hammer trip" solenoid providing fault current protection.

They offer:
- high short-circuit capacity
- high selectivity for back-up fuse
- In case of short-circuit, low stress on the cable in the point of fault due to the high limitation of the let-through $\int i^2 dt$ (current heating value).

Oscillogram of rupturing process



SK 0130 Z 98

$I_K \cdot \sqrt{2}$ = peak value of prospective short circuit current

i_D = max. let-through current of device S 200/S 200 M

U_n = system voltage

U_B = arc voltage of MCB

t_K = breaking time of MCB

Task

To protect against excessive temperature rises of electric items in the case of overcurrents caused by overload, short circuit of earth-fault current if assigned according to DIN VDE 0100 Part 430. Protection against electric shock in the case of excessive touch voltage caused by insulation fault if assigned according to DIN VDE 0100 Part 410.

Trip charcteristics and rated current

Independent of the type of characteristic, national codes of practice provide what highest rated current and/or performance characteristic can be assigned to the conductor cross section to be protected (e.g. DIN VDE 0100 Part 430).

The following assignment rules apply: $I_b \leq I_n \leq I_z$; $I_2 \leq 1{,}45 \cdot I_z$

I_b = operating current of the circuit to be expected

I_n = rated current of the MCB of characteristics type B, C, D, K and Z

I_z = permissible current loading of lines

I_2 = conventional tripping current

B-, C- and D-type trip characteristics for line protection

Tripping behaviour according to DIN VDE 0641 Part 11.
Rated current 6 ... 63 A, (C 0,5 ... 63 A). The introduction of these trip characteristics enables direct assignments of MCBs to the permissible load of lines I z according to DIN VDE 0298 Part 4/11.98, as the second condition is already fulfilled ($I_2 = 1.45 \cdot I_n$).

K-type trip characteristics

Tripping behaviour according to DIN VDE 0660 Part 101 and IEC 947-2, rated current 0.5 ... 63 A, for circuits where current-consuming appartus cause functional current peaks and for the overcurrent protection of lines.

Z-type trip characteristics

Tripping behaviour according to DIN VDE 0660 Part 101 and IEC 947-2
Rated current 0.5 ... 63 A in 17 grades. For the protection of semiconductors and measuring circuits with transformers.

Technical data

Specifications:	DIN VDE 0641 Part 11, IEC 60898, EN 60898, IEC 60947-2, UL 1077
No. of poles:	1, 2, 3, 4, 1 + NA, 3 + NA
tripping charcteristics:	B, C, D, K, Z
rated current I_n:	B 6 ... 63 A , C, D, K and Z 0,5 ... 63 A
rated voltage U_n:	1-pole 230 V ~ multipole 400 V ~
max. operating voltage U_{Bmax}:	AC U_n + 10 % DC 1-pole 60 V ⎓ 2-pole 125 V ⎓
min. operating voltage U_{Bmin} :	12 V~, 12 V-
energy limitation class:	S 3
short circuit rupturing capacity:	see page 9
frequency:	50 ...60 Hz
insulation coordination:	according to DIN VDE 0110 Part 1 and 2
- overvoltage category:	III
- pollution degree:	2
- surge voltage:	5 kV (1.2/50 µs)
- impulse alternating voltage:	3 kV (50/60 Hz)
housing: 7035	Insulating material rating I (CTI ≥ 600) according to DIN IEC 112/VDE 0303 Part 1, RAL
operating lever:	Insulating material rating II (400 ≤ CTI < 600) black, sealable
degree of protection acc. to DIN VDE 0100:	IP 20, in the consumer unit IP 40
dimensions:	according to DIN 43880, size code 1
depth of device:	68 mm
overall dimensions:	see page 25
mounting position:	optional
fixing:	snap-on to DIN rails EN 60 715, 35 mm or screw fixing by means of mounting plate (see accessories)
connection: to	failsave bi-directional cylinder-lift terminal at top and bottom, shock-protected according DIN VDE 0106 Part 100. Suitable for connection of single, multi or finely stranded conductors up to 25 mm^2 (if also connected to rails)
tightening torque:	2.8 Nm
mechanical service life:	20,000 operations
service life at rated load I_n < 32 A: I_n ≥ 32 A:	 20,000 operations 10,000 operations
climatic resistance acc. to DIN IEC 68 Part 2-30:	constant climate 23/83, 40/93, 55/20 [°C/RH] alternating climate 25/95 - 40/93 [°C/RH]
storage temperature:	T_{max} +70 °C/158 °F, T_{min} -40 °C/-13 °F
ambient temperature:	T_{max} +55 °C/158 °F, T_{min} -25 °C/-13 °F
shock resistance:	30 g, at least 2 impacts shock duration 13 ms
resistance to vibration acc. to DIN IEC 68-2-6:	5 g, 20 frequency cycles 5 ... 150 ... 5 Hz at 0.8 I_n
weight:	see selection tables

Technical data of the integrated auxiliary contact

contact:	1NO (1 make contact) 1NC (1 normally closed contact)
contact load:	AC 14 230 V 2 A DC 12 identical DC 13 DC 13 50 V 1 A
min. operating voltage:	12 VAC/DC at 0.1 VA
short-circuit withstand capacity:	230 V~ 1,000 A
electrical service life:	> 4,000 operations

safe disconnection of auxiliary circuit and main circuit according to VDE 0106 Part 101

connection capacity: 0.75 to 2.5 mm^2 (finely-stranded conductors to be fitted with a connector sleeve)

Internal resistance and power loss of the miniature circuit-breakers

Internal resistance per pole in mΩ, power loss per pole in W

type	rated current I_n A	device series B, C, D ① mΩ	W	K mΩ	W	Z mΩ	W
S 200 and S 200 M	0.5	5500	1.4	6340	1.6	10100	2.5
	1	1440	1.4	1550	1.6	2270	2.3
	1.6	630	1.6	695	1.8	1100	2.8
	2	460	1.8	460	1.9	619	2.5
	3	150	1.3	165	1.5	202	1.8
	4	110	1.8	120	2.0	149	2.4
	6	55	2.0	52	1.9	104	3.7
	8	15	1.0	38	2.5	53.9	3.45
	10	13.3	1.3	12.6	1.26	17.5	1.7
	13	13.3	2.3	12.6	1. 26	–	–
	16	7.0	1.8	7.7	2.0	10.9	2.8
	20	6.25	2.5	6.7	2.7	6.0	2.4
	25	5.0	3.2	4.6	2.9	4.1	2.6
	32	3.6	3.7	3.5	3.6	2.8	2.9
	40	3.0	4.8	2.8	4.5	2.5	4.1
	50	1.3	3.25	1.25	2.9	1.8	4.4
	63	1.2	4.8	0.7	5.2	1.3	5.2

① Current intensities 0.5 – 4 apply exclusively to C-type trip characteristics.

Maximum permissible fault loop impedance Z_S at U_0 = 230 V~ ①
to ensure compliance with the rupturing conditions prescribed in DIN VDE 0100 Part 410.

The internal resistance of MCB is included.

Note: Attention should be paid to the maximum voltage drop

S 200 and S 200 M

Bemessungs-strom I_n A	B max. Z_S Ω	C max. Z_S Ω	D max. Z_S Ω	K max. Z_S Ω	Z max. Z_S Ω
0,5		46.0	33.0	38.3	153.3
1		23.0	16.5	19.2	76.7
1.6		14.4	10.3	12.0	47.9
2		11.5	8.2	9.6	38.3
3		7.7	5.5	6.4	25.6
4		5.8	4.1	4.8	19.2
6	7.7	3.8	2.7	3.2	12.8
8	–	2.8	2.1	2.4	9.5
10	4.6	2.3	1.6	1.9	7.7
13	3.5	1.7	1.2	–	–
16	2.9	1.4	1.0	1.2	4.8
20	2.3	1.2	0.8	1.0	3.8
25	1.8	0.9	0.7	0.8	3.1
32	1.4	0.7	0.5	0.6	2.4
40	1.2	0.6	0.4	0.5	1.9
50	0.9	0.5	0.3	0.4	1.5
63	0.7	0.4	0.3	0.3	1.2

① U_0 = rated voltage against earthed conductor; for U_0 = 240 V~ : $Z_S \cdot 1.04$; for U_0 = 127 V~′ $Z_S \cdot 0.55$
The max. permissible lenght of cable at different voltage and cross sections on request.

Tripping characteristics

acc. to	tripping characteristic and rated current		thermal release ② current: conventional non-triping c.	thermal release ② conventional tripping c.	thermal release ② tripping time	electromagnetic release① currents: hold current surges	electromagnetic release① currents: trip at least at	electromagnetic release① tripping time
DIN VDE 0641/T 11	B	6 to 63 A	$1.13 \cdot I_n$	$1.45 \cdot I_n$	> 1 h < 1 h	$3 \cdot I_n$	$5 \cdot I_n$	> 0.1 s < 0.1 s
	C	0.5 to 63 A	$1.13 \cdot I_n$	$1.45 \cdot I_n$	> 1 h < 1 h	$5 \cdot I_n$	$10 \cdot I_n$	> 0.1 s < 0.1 s
	D	0.5 to 63 A	$1.13 \cdot I_n$	$1.45 \cdot I_n$	> 1 h < 1 h	$10 \cdot I_n$	$20 \cdot I_n$	> 0.1 s < 0.1 s
DIN VDE 0660/9.82	K	0.5 to 63 A	$1.05 \cdot I_n$	$1.2 \cdot I_n$	> 1 h < 1 h	not applicable		
DIN VDE 0660 8/69 Part 1④			$1.05 \cdot I_n$	$1.2 \cdot I_n$ $1.5 \cdot I_n$ $6.0 \cdot I_n$	> 2 h < 2 h ③ < 2 min. ③ > 2 s (T1)	$8 \cdot I_n$	$12 \cdot I_n$	> 0.2 s < 0.2 s
DIN VDE 0660/9.82	Z	0.5 to 63 A	$1.05 \cdot I_n$	$1.2 \cdot I_n$	> 1 h < 1 h	not applicable		
DIN VDE 0660 8/69 Part 1④			$1.05 \cdot I_n$	$1.2 \cdot I_n$ $1.5 \cdot I_n$ $6.0 \cdot I_n$	> 2 h < 2 h ③ < 2 min.③ > 2 s (T1)	$2 \cdot I_n$	$3 \cdot I_n$	> 0.2 s < 0.2 s

① The indicated tripping values of electromagnetic tripping devices apply to a frequency range of 16 2/3 ... 60 Hz. In the case of diverging frequencies or direct current, the values change by the factor indicated below

	alternating current 100 Hz	200 Hz	400 Hz	direct current
factor ca.	1.1	1.2	1.5	1.5

The thermal release operates independently of voltagest.

② The thermal releases are calibrated to a nominal reference ambient temperature; for Z and K, the value is 20 °C, for B and C = 30 °C. In the case of higher ambient temperatures, the current values fall by ca. 6% for each 10 K temperature rise.

③ as from operating temperature (after I_1 > 1 h or, as applicable, 2 h).

④ The standard DIN VDE 0660/9.69 has expired in 1986, but is still referred to due to its complete statement of the tripping characteristics.

Short circuit rupturing capacity and back-up

operating sequence: B and C according to DIN VDE 0641, DIN VDE 0660 Part 101 I_{cs}
K and Z according to IEC 947

series / trip characteristic / rated current	1phase 133 V ~	alternating current 230 V ~	2/3phase 230 V ~	400 V ~ 133/230 V ~	1pole ① 60 V ⎓ 230/400 V ~	direct current	Max. back-up fuse gL ②	Max. back-up main circuit-br. S 700
	A	kA/cos φ	kA/cos φ	kA/cos φ	kA/cos φ	kA/T ≤ ms		
S 200-B	6	10/0.5	6/0.7	10/0.5	6/0.7	10/4.0	63 A	100 A
S 200 M-B	10 ... 20						100 A	100 A
	25 ... 32						100 A	100 A
	40		10/0.5 (S 200 M-B)		10/0.5 (S 200 M-B)		125 A	100 A
	50 ... 63						160 A	100 A
S 200-C	0.5 ... 2	unlimited					not required	
S 200 M-C	3 ... 4	10/0.5	6/0.7	10/0.5	6/0.7	10/4.0	20 A	–
S 200-D	6						40 A	100 A
	8						63 A	100 A
	10 ... 20						100 A	100 A
	25 ... 32		10/0.5 (S 200 M-C)		10/0.5 (S 200 M-C)		100 A	100 A
	40						125 A	100 A
	50 ... 63						160 A	100 A
S 200-K	0.5 ... 2	unlimited					not required	
	3	10/0.5	6/0.7	10/0.5	6/0.7	10/4.0	20 A	–
	4						25 A	–
	6 ... 10						63 A	100 A
	16 ... 20						80 A	100 A
	25 ... 32						100 A	100 A
	40						125 A	100 A
	50 ... 63						160 A	100 A
S 200-Z	0.5 ... 2	unlimited					not required	
	3 ... 4	10/0.5	6/0.7	10/0.5	6/0.7	10/4.0	20 A	–
	6						35 A	100 A
	8						40 A	100 A
	10 ... 16						63 A	100 A
	20 ... 25						80 A	100 A
	32 ... 40						100 A	100 A
	50 ... 63						125 A	100 A

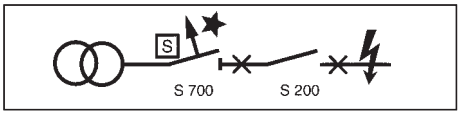
① In symmetrically earthed direct current circuits, 2-pole devices (two poles connected in series) can be used up to 110 VDC. Any connection is possible, polarity does not need to be taken into account.

② Back-up protection is necessary only if the solid short-circuit current to be expected at the place of installation may exceed the switching capacity indicated.

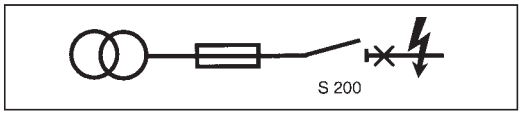
Short circuit selectivity: In the case of a short circuit, selectivity exists up to the values indicated.

MCBs

short circuit discrimination in kA



SK 0112 Z 99



SK 0113 Z 99

to main circuit breaker S 700

to fuse gL/gG
(DIN VDE 0636; IEC 269/3)

series	I_n A	16	20	25	35	40	50	63	80	100	16	20	25	35	50	63	80	100	125	160
S 200-B, C, D	≤ 2	>15	>15	>15	>15	>15	>15	>15	>15	>15	1	1.2	4	>15	>15	>15	>15	>15	>15	>15
Current values smaller than 6 A and 8 A, apply only to C and D characteristics.	3	10	10	10	10	10	10	10	8	8	0.3	0.7	1.2	4.6	6	6	6	6	6	6
	4	10	10	10	10	10	10	10	8	8	0.3	0.6	0.9	2.8	6	6	6	6	6	6
	6	10	10	10	10	10	10	10	8	8	0.2	0.5	0.8	2	3.3	5.5	6	6	6	6
	8	10	10	10	10	10	10	10	8	8	0.2	0.4	0.7	1.7	2.8	4.5	6	6	6	6
	10	10	10	10	10	10	10	10	8	8	0.2	0.4	0.7	1.5	2.5	3.5	5	6	6	6
	13	10	10	10	10	10	10	10	8	8			0.7	1.5	2.5	3.5	5	6	6	6
	16	10	10	10	10	10	10	10	8	8				1.3	2	2.9	4.1	6	6	6
	20		10	10	10	10	10	10	8	8					1.8	2.6	3.5	5	6	6
	25			10	10	10	10	10	8	8					1.8	2.6	3.5	5	6	6
	32				10	10	10	10	8	8						2.2	3	4	6	6
	40		**			10	10	10	8	8						2.5	4	6	6	6
	50/63						10	10	8	8								3,5	5	6
S 200 M-B, C	≤ 2	>15	>15	>15	>15	>15	>15	>15	>15	>15	1	1.2	4	>15	>15	>15	>15	>15	>15	>15
Current values smaller than 6 A and 8 A, apply only to C characteristics.	3	15	15	15	15	15	15	15	10	10	0.3	0.7	1.2	4.6	6	6	6	6	6	6
	4	15	15	15	15	15	15	15	10	10	0.3	0.6	0.9	2.8	6	6	6	6	6	6
	6	15	15	15	15	15	15	15	10	10	0.2	0.5	0.8	2	3.3	5.5	6	6	6	6
	8	15	15	15	15	15	15	15	10	10	0.2	0.4	0.7	1.7	2.8	4.5	6	6	6	6
	10	15	15	15	15	15	15	15	10	10	0.2	0.4	0.7	1.5	2.5	3.5	5	6	6	6
	13	15	15	15	15	15	15	15	10	10			0.7	1.5	2.5	3.5	5	6	6	6
	16	15	15	15	15	15	15	15	10	10				1.3	2	2.9	4.1	6	6	6
	20		15	15	15	15	15	15	10	10					1.8	2.6	3.5	5	6	6
	25			15	15	15	15	15	10	10					1.8	2.6	3.5	5	6	6
	32				15	15	15	15	10	10						2.2	3	4	6	6
	40		**			15	15	15	10	10							2.5	4	6	6
	50/63						15	15	10	10								3.5	5	6
S 200-K	≤ 2	>15	>15	>15	>15	>15	>15	>15	>15	>15	0.3	1.2	4	>15	>15	>15	>15	>15	>15	>15
Selectivity values apply to I_{cu} according to IEC 947-2.	3	10	10	10	10	10	10	10	10	10	0.3	0.7	1.2	4.6	6	6	6	6	6	6
	4	10	10	10	10	10	10	10	10	10	0.3	0.6	0.9	2.8	6	6	6	6	6	6
	6	10	10	10	10	10	10	10	10	10			0.7	1.7	3	5.9	6	6	6	6
	8	10	10	10	10	10	10	10	10	10				1.3	2.2	3.6	6	6	6	6
	10	10	10	10	10	10	10	10	10	10					1.7	2.5	4	6	6	6
	16	10	10	10	10	10	10	10	10	10						2.2	3.1	4.6	6	6
	20		10	10	10	10	10	10	10	10							3.1	4.6	6	6
	25			10	10	10	15	10	10	10							2.6	3.5	6	6
	32				10	10	10	10	10	10								3.5	6	6
	40		**			10	10	10	10	10									5.5	6
	50/63						10	10	10	10										6
S 200 Z	≤ 2	>15	>15	>15	>15	>15	>15	>15	>15	>15	0.5	2	>15	>15	>15	>15	>15	>15	>15	>15
Selectivity values apply to I_{cu} according to IEC 947-2.	3	10	10	10	10	10	10	10	10	10	0.3	0.7	1.2	6	6	6	6	6	6	6
	4	10	10	10	10	10	10	10	10	10	0.3	0.6	1.3	7	6	6	6	6	6	6
	6	10	10	10	10	10	10	10	10	10	0.2	0.5	0.9	2.7	6	6	6	6	6	6
	8	10	10	10	10	10	10	10	10	10	0.2	0.5	0.6	1.7	3.8	6	6	6	6	6
	10	10	10	10	10	10	10	10	10	10		0.4	0.6	1.3	2.4	4	6	6	6	6
	16	10	10	10	10	10	10	10	10	10			0.5	1.1	1.7	3	4.5	6	6	6
	20		10	10	10	10	10	10	10	10				0.9	1.5	2.3	3.5	5.2	6	6
	25			10	10	10	15	10	10	10					1.4	2	3	4	6	6
	32				10	10	10	10	10	10					1.4	2	3	4	6	6
	40		**			10	10	10	10	10						2	3	4	6	6
	50/63						10	10	10	10							2.2	3.5	5.8	6

**** Limited or no selectivity at all possible in the overload range (thermal tripping)**

The above values require that, in the case of multi-phase installations, that the last cb be feed from above.

Tripping diagrams

Reading example for tripping characteristic of the B-type trip characteristics
(in connection with the table **tripping characteristics** on page 9, line **B**)

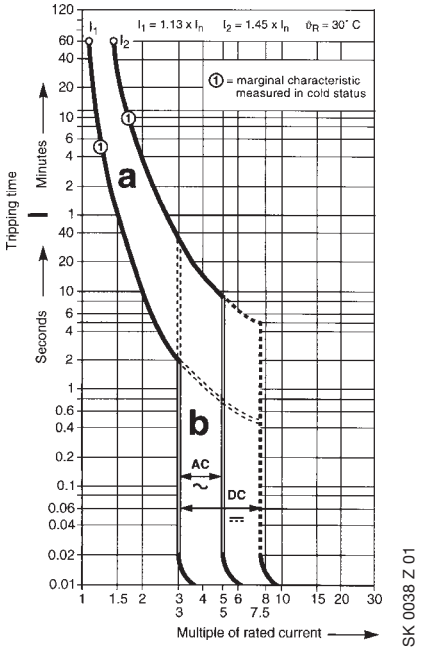
a **Thermal tripping characteristic:**

Conventional non-tripping current
I_1 = selected non-tripping current
The MCB maintains the 1.13 times of the rated current for at least 60 minutes.
Conventional tripping current
I_2 = selected tripping current.
The MCB switches off within 60 minutes when the 1.45 times of the rated current is reached.

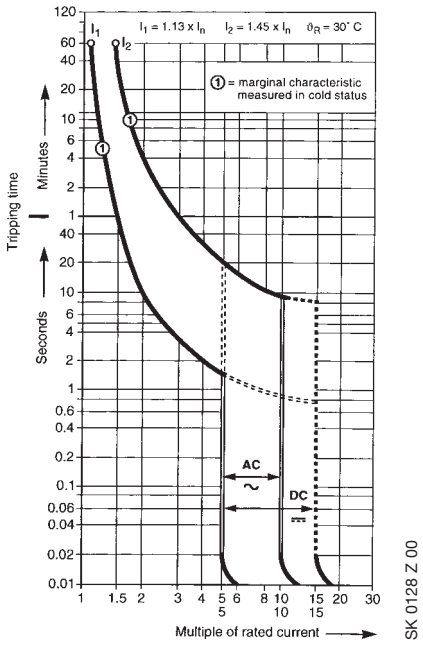
b **Electromagnetic trip characteristic**

AC:
The MCB maintains current rushes of the 3-fold of the rated current for more than 0.1 sec. (in this example up to ca. 4 sec.).

The MCB switches off within less than 0.1 sec when the 5-times of the rated current is reached.

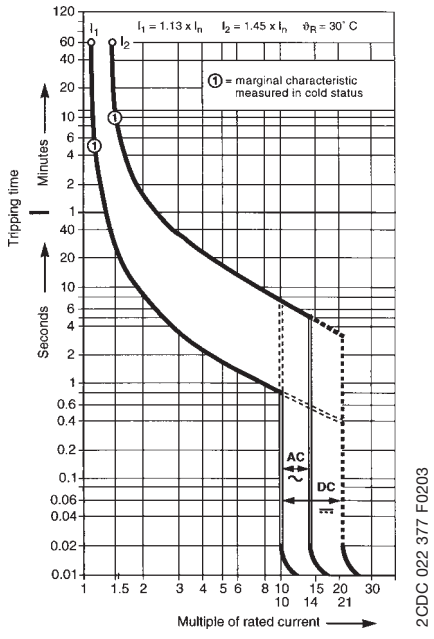


trip characteristic: B
I_n = 6 ... 63 A
S 200/S 200 M MCBs

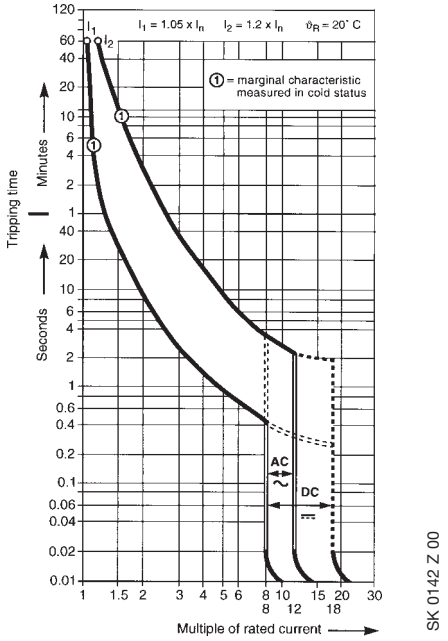


trip characteristic: C
I_n = 0.5 ... 63 A
S 200/S 200 M MCBs

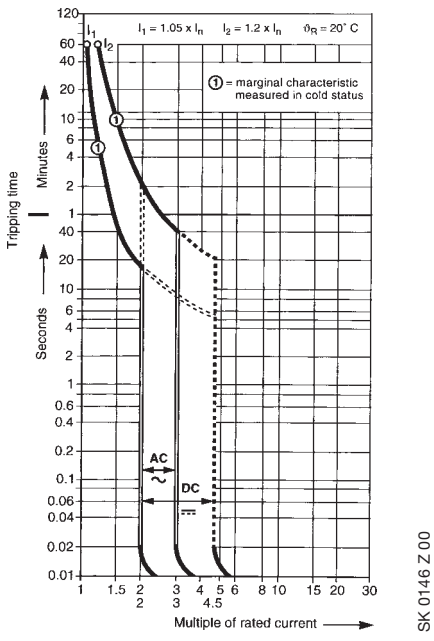
Note: **Deviating ambient temperature values and interdependencies need to be taken into account**



trip characteristic: D
I_n = 0.5 ... 63 A
S 200 MCBs

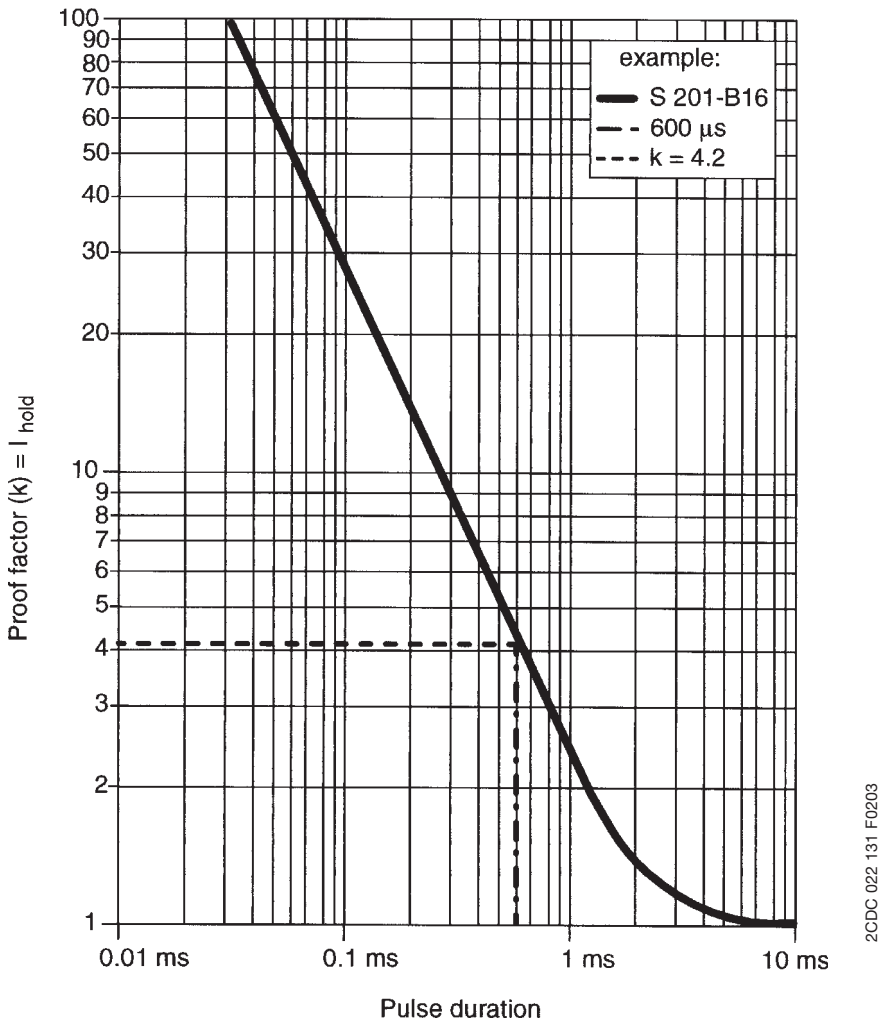


trip characteristic: K
I_n = 0.5 ... 63 A
S 200 MCBs



trip characteristic: Z
I_n = 0.5 ... 63 A
S 200 MCBs

Pulse tripping of the MCBs S 200/S 200 M made by ABB-STOTZ-KONTAKT



Example:

S 201-B16 I_{hold} = K x non-tripping current
I_{hold} = 4.2 x 3 x 16
I_{hold} = 201.6 A

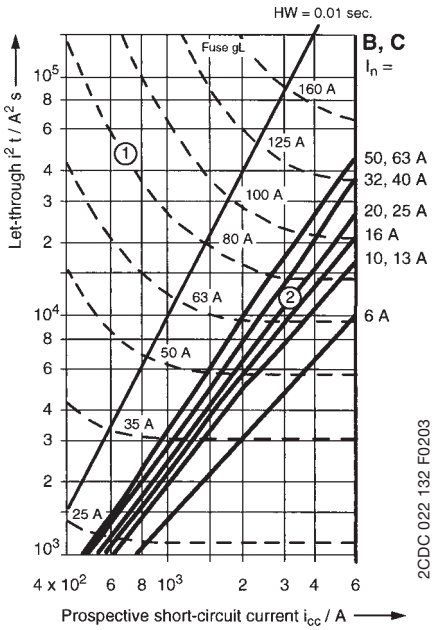
non-tripping current (electromagnetic release)

B-type characteristic = 3 x I_n
C-type characteristic = 5 x I_n
D-type characteristic = 10 x I_n
K-type characteristic = 10 x I_n
Z-type characteristic = 2 x I_n

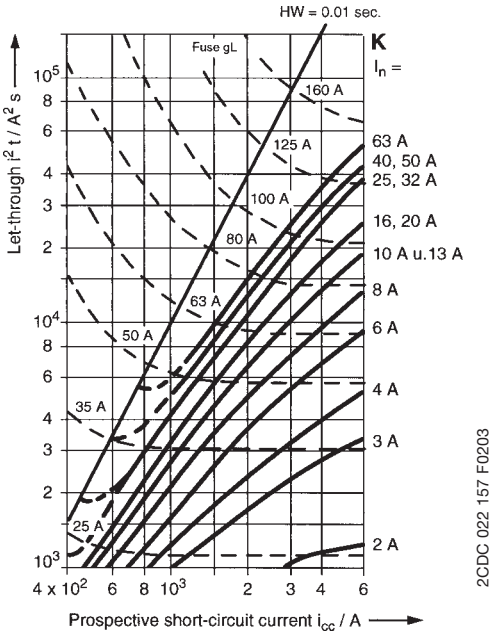
In the case of an impulse of 600 μ, S 201-B16 maintains up to a current of 201.6 A.

Diagrams of let-through values I² t at 230/400 VAC

Miniature circuit-breakers S 200 B/C, D on request



Miniature circuit-breakers S 200 K

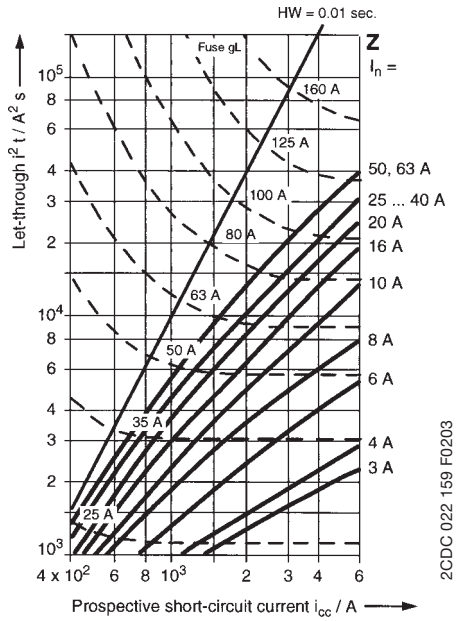


① min. pre-arcing I²t, e.g. I_n = 80 A gL
② max. let-through I²t MCB e.g. B20 A

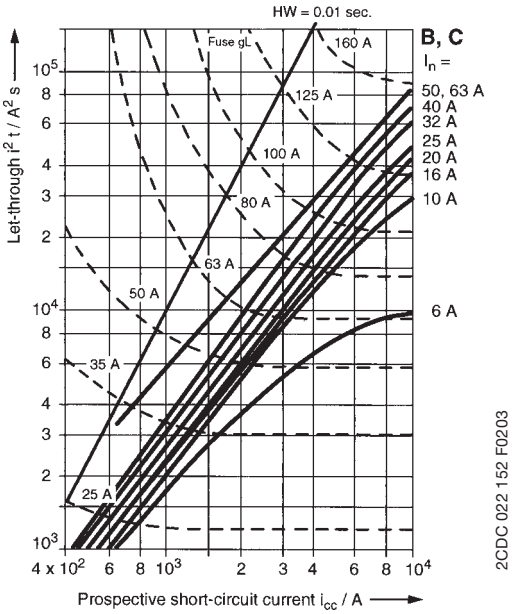
- Fuse-MCB, selectivity with respect to the upstream fuse to the point of intersection of both curves ① and ②.
  e.g. S 200-B20 to fuse 80 A: selectivity up to 3.5 kA min.

- Let-through value I²t reduced:
  127 V~ by factor 2.5
  110 V~ by factor 3

Miniature circuit-breakers S 200 Z



Miniature circuit-breakers S 200 M B/C



The influence of ambient temperature and interdependencies in the case of even loads on the load capability of MCBs

Practical Note: This practical deduction, that is applicable for all types of characteristics, can be recommended for standard environments. Selection criteria for rated current of circuit-breakers according to EN 60898 and EN 60947-2.

Choose the circuit-breaker that is appropriate for the lower of the rated value of the device or the permissible current loading. Now, the major factors having an influence on the circuit-breaker, must be taken into account:

1. ambient temperature with $I_B \leq 0.9 \times I_n$ at 40 °C ambient temperature
2. mutual influence with $I_B \leq 0.75 \times I_n$ in the case of more than one circuit-breaker being loaded evenly in parallel.

The ensuing rated current of the circuit breaker is thus: **I_n = 1.5 x rated current**

Example: operating currect 4 A, then the rated current of the circuit-breaker is: **I_n = 1.5 x 4 A = 6 A**

The above takes into account all relevant factors and the circuit is protected at the lowest possible level.

This practical note is based on the following:

1. Deviating ambient temperature: The thermal releases are adapted to a given reference ambient temperature. For the K- and Z-type characteristics, it is 20 °C, for B-, C- and D-type, it is 30 °C.
For all other ambient temperatures, the current values indicated vary by **ca. 6 % per 10 K temperature de/increase**.

For more precise calculations and very high/low ambient temperatures, the following tables apply:

Max. operating current depending on the ambient temperature circuit-breaker in load circuit of characteristics type B, C and D

B, C and D	Ambient temperature T (°C)											
I_n (A)	– 40	– 30	– 20	– 10	0	10	20	30	40	50	60	70
0.5	0.67	0.65	0.62	0.60	0.58	0.55	0.53	0.50	0.47	0.44	0.41	0.37
1.0	1.33	1.29	1.25	1.20	1.15	1.11	1.05	1.00	0.94	0.88	0.82	0.75
1,6	2.13	2.07	2.00	1.92	1,85	1.77	1.69	1.60	1.51	1.41	1.31	1.19
2,0	2.67	2.58	2.49	2.40	2.31	2.21	2.11	2.00	1.89	1.76	1.63	1.49
3,0	4.0	3.9	3.7	3.6	3.5	3.3	3.2	3.0	2.8	2.6	2.4	2.2
4,0	5.3	5.2	5.0	4.8	4.6	4.4	4.2	4.0	3.8	3.5	3.3	3.0
6,0	8.0	7.7	7.5	7.2	6.9	6.6	6.3	6.0	5.7	5.3	4.9	4.5
8,0	10.7	10.3	10.0	9.6	9.2	8.8	8.4	8.0	7.5	7.1	6.5	6.0
10,0	13.3	12.9	12.5	12.0	11.5	11.1	10.5	10.0	9.4	8.8	8.2	7.5
13,0	17.3	16.8	16.2	15.6	15.0	14.4	13.7	13.0	12.3	11.5	10.6	9.7
16,0	21.3	20.7	20.0	19.2	18.5	17.7	16.9	16.0	15.1	14.1	13.1	11.9
20,0	26.7	25.8	24.9	24.0	23.1	22.1	21.1	20.0	18.9	17.6	16.3	14.9
25,0	33.3	32.3	31.2	30.0	28.9	27.6	26.4	25.0	23.6	22.0	20.4	18.6
32,0	42.7	41.3	39.9	38.5	37.0	35.4	33.7	32.0	30.2	28.2	26.1	23.9
40,0	53.3	51.6	49.9	48.1	46.2	44.2	42.2	40.0	37.7	35.3	32.7	29.8
50,0	66.7	64.5	62.4	60.1	57.7	55.3	52.7	50.0	47.1	44.1	40.8	37.3
63,0	84.0	81.3	78.6	75.7	72.7	69.6	66.4	63.0	59.4	55.6	51.4	47.0

Max. operating current depending on the ambient temperature circuit-breaker in load circuit of characteristics type K and Z

K and Z	Ambient temperature T (°C)											
I_n (A)	– 40	– 30	– 20	– 10	0	10	20	30	40	50	60	70
0.5	0.66	0.64	0.61	0.59	0.56	0.53	0.50	0.47	0.43	0.40	0.35	0.31
1.0	1.32	1.27	1.22	1.17	1.12	1.06	1.00	0.94	0.87	0.79	0.71	0.61
1.6	2.12	2.04	1.96	1.88	1.79	1.70	1.60	1.50	1.39	1.26	1.13	0.98
2.0	2.65	2.55	2.45	2.35	2.24	2.12	2.00	1.87	1.73	1.58	1.41	1.22
3.0	4.0	3.8	3.7	3.5	3.4	3.2	3.0	2.8	2.6	2.4	2.1	1.8
4.0	5.3	5.1	4.9	4.7	4.5	4.2	4.0	3.7	3.5	3.2	2.8	2.4
6.0	7.9	7.6	7.3	7.0	6.7	6.4	6.0	5.6	5.2	4.7	4.2	3.7
8.0	10.8	10.2	9.8	9.4	8.9	8.5	8.0	7.5	6.9	6.3	5.7	4.9
10.0	13.2	12.7	12.2	11.7	11.2	10.6	10.0	9.4	8.7	7.9	7.1	6.1
13.0	17.2	16.6	15.9	15.2	14.5	13.8	13.0	12.2	11.3	10.3	9.2	8.0
16.0	21.2	20.4	19.6	18.8	17.9	17.0	16.0	15.0	13.9	12.6	11.3	9.8
20.0	26.5	25.5	24.5	23.5	22.4	21.2	20.0	18.7	17.3	15.8	14.1	12.2
25.0	33.1	31.9	30.6	29.3	28.0	26.5	25.0	23.4	21.7	19.8	17.7	15.3
32.0	42.3	40.8	39.2	37.5	35.8	33.9	32.0	29.9	27.7	25.3	22.6	19.6
40.0	52.9	51.0	49.0	46.9	44.7	42.4	40.0	37.4	34.6	31.6	28.3	24.5
50.0	66.1	63.7	61.2	58.6	55.9	53.0	50.0	46.8	43.3	39.5	35.4	30.6
63.0	83.3	80.3	77.2	73.9	70.4	66.8	63.0	58.9	54.6	49.8	44.5	38.6

2. Interdependencies in the case of even loads

A correction factor must be taken into account in the case butt-mounted devices and an evenly applied, high load:

2 and 3 circuit-breakers with factor 0.9

4 and 5 circuit-breakers with factor 0.8

6 and more circuit-breakers with factor 0.75

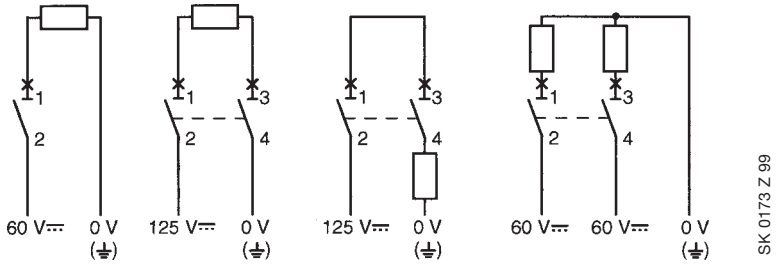
The interdependency becomes irrelevant if FST … spacers or packing blocks (9mm width) are used.

Use of S 200/S 200 M miniature circuit-breakers in direct current circuits 60 VDC/125 VDC

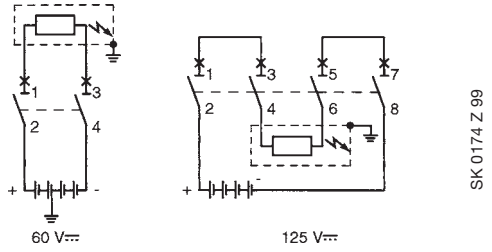
In DC systems up to 60 VDC or, as the case may be, series connection up to 125 VDC, customary S 200/S 200 M series MCBs can be used. Polarity does not need to be taken into consideration, the outgoing circuit may be implemented from above or below the device.

For higher direct voltage up to 440 VDC devices of the S 280 UC series must be used.

Example for max. permissible voltages between conductors depending on the number of poles and type of connection.



Examples for different voltages between a conductor and earth where voltages between conductors are identical:



Fusing of lighting currents

1. Filament lamps and fluorescent lamps

The following table indicates the maximum number of fluorescent lamps that can be protected with a single-pole miniature circuit-breaker. In the case of multipole MCBs, the value is reduced by 20 %. Tripping charcteristic type C allows for light currents up to the rated current of the MCB,

for fusing of: filament lamps
fluorescent lamps a) non-compensated
b) shunt compensated (cos φ = 0.95)
c) electronic load

Characteristic/ rated current	non-compensated conventional ballast			shunt compensated conventional ballast			electronic ballast ①		
	18/20 W	36/40 W	58/65 W	18/20 W	36/40 W	58/65 W	18/20 W	36/40 W	58/65 W
10	27	23	15	32	32	20	18	18	8
16	43	37	24	51	51	33	26	26	12
20	53	46	30	64	64	41	33	33	15
25	66	58	37	82	82	53	42	42	19

① electronic ballast: twin-lamp style, jointly switched number of lamps

2. High-pressure discharge lamps

Starting current: ca. 1.7 x lamp current
Recovery time: ca. 3 ... 5 min.
According to the type of lamp, line impedance and start-stop torque, the so-called rectifier effect may occur which superimposes the starting current of the lamp for some half-waves.
In the most unfavorable circumstances, inrush currents of 15 times of the lamp nominal current may ensue.
To avoid nuisance tripping, MCBs with K-type characteristic should not carry loads higher than 0.6-fold of the lamp current. The load factor indicated refers to the least favorable case (proximity to transformer, low line impedances).

Installation and operation instructions

Installation
Can be installed in any mounting position due to snap-on fixing to DIN rails EN 60 715, 35 mm width.

A If MCB S 200/S 200 M is installed without cross wiring, hinge the upper part into the DIN rail and push to let the lower part of the device snap into place **(1)**. The device is released in the reverse order, after the quick fastener has been removed with a screw driver **(2).**

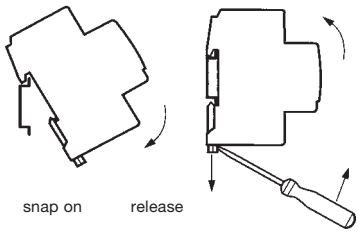
B To release S 200 /S 200 M that are cross-wired with **System pro *M* compact** busbars, first remove the clamping screws Then, pull the lower part of the S 200/S 200 M forwards **(1)** and lift it straight up **(1a)** , then, the quick fastener **(1b)** will recede.

C The busbar is deallocated and the S 200/S 200 M can be pulled out by lifting the device forwards **(2)**.

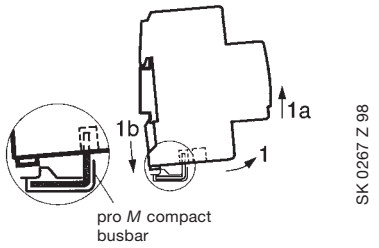
D The cross-wiring is re-inserted in the reverse order. First, open the clamping screws and pull out the quick fastener **until it locks into place for the first time (3)** . Then, take the S 200 /S 200 M and insert it with rear terminal side onto the pins of the **System pro *M* compact** busbar **(4)** , turn it into the direction of the DIN rail **(4a)** and shift it vertically downwards **(4b)** ,this way, the quick fasterner snaps back into place **(4c)**.

Attention: Do not forget to re-tighten the clamping screws.

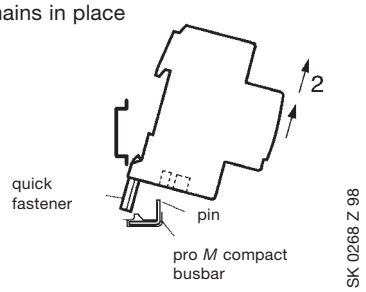
A Assembly, disassembly without pro *M* compact cross wiring



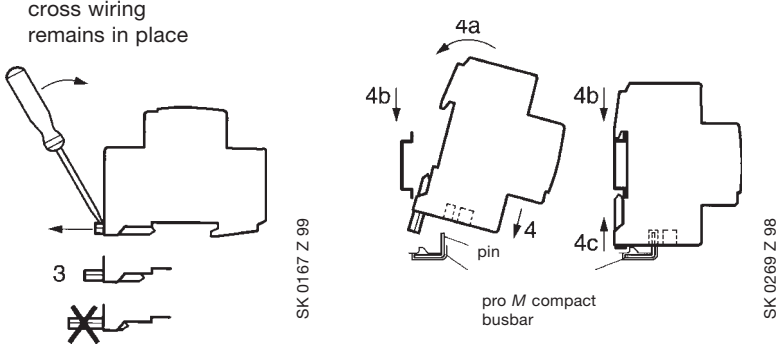
B Detaching when pro *M* compact cross wiring remains in place



C Removal when pro *M* compact cross wiring remains in place



D Insertion when pro *M* compact cross wiring remains in place



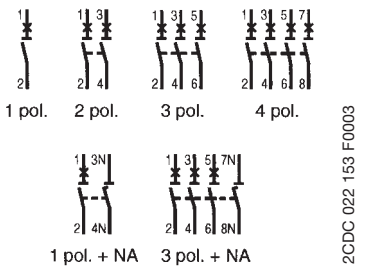
Operation
MCBs are switched on by switching the operating lever into the upper position (with resepct to the text block of the nameplate). If an MCB, after it has triggered, cannot be switched on again off-handedly, the triggering is probably caused by overload.
If the MCB trips again immediately when trying to reclose (let a short period of time elapse), a complete short-circuit, or as the case may be, earth connection can be assumed.
Do not try and continuously re-close an existing short circuit or earth fault. The MCB even trips under overload, or short-circuit or earth fault conditions, even if the operating lever is maintained in the ON position by force (trip-free mechanism).

Cleaning the device
MCBs soiled by installation work should be cleaned with a dry, or, if necessary, a damp and soapy cloth. Never use caustic agents or dissolvents.

Maintenance
STOTZ MCBs are maintenance-free.

Opening the device will lead to a loss of warranty.

Connection:
For connection cross sections, see page 7.
Feeder optional, top or bottom, terminal designation according to EN 50 005.
For wiring diagrams, see picture to the right.

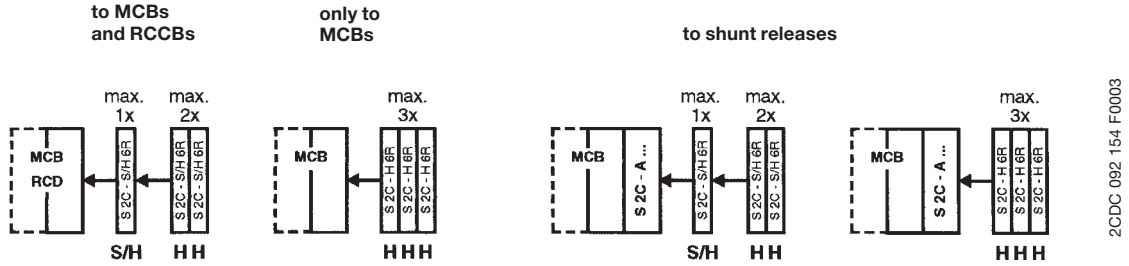


Additional devices

Mounting additional devices

Additional devices are always fitted from the right hand side:

– signal contact/auxiliary switch S2C-S/H6R for MCBs and RCCBS
– auxiliary switch S2C-H6R for MCBs
– shunt release S2C-A for MCB



S function signal contact
H function auxiliary switch

1. Signal contact and auxiliary switches

Retrofittable to the right side of circuit-breakers or shunt releases without extra installation devices.

1.1 Universal signal contact/ auxiliary switch type S2C-S/H6R

Description

S2 – serial code:

S 2 C - S/H 6 R

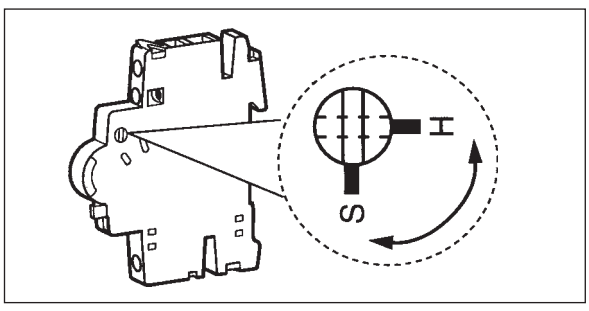
R = right side-mounted
6 = change over
H = auxiliary switch
S = signal contact
C = compatible to pro M compact

S2C-S/H6R is a universal device complementing the range of pro M compact, which is supplied to offer signal contact functionality, or the auxiliary switch can be activated, all you need is a screwdriver. The universal switch can be with MCBs and RCCBs.
Up to three S2C-H6R can be mounted (one signal contact max. fitted to MCB or RCCB). Both the switchgear and the S2C-S/H6R must be in the ON end position to ensure that the coupling is correct.

Function of the signal contact S
Signal is transmitted only if caused by fault-tripping of the circuit-breaker, but not if the switch has been switched on or off manually. Press the orange reset button to acknowledge the has-tripped signal.

Function of the auxiliary switch H
The switch always indicates the switching position of the MCB, irrespective of whether the switching position is attributable to manual operation or fault tripping.

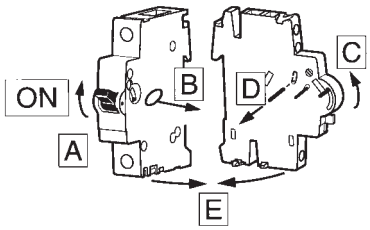
Functionality selection
To select either the signal contact function S or the auxiliary switch H, use a screwdriver and adjust to position S, or as the case may be, H at the side of the device.



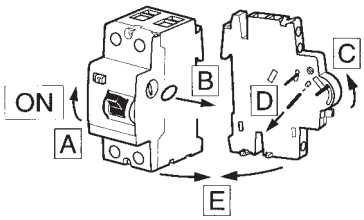
Installation:

1. Mounting one S2C-S/H6R

→ RCCB or MCB must be in the ON position → remove coupling cover on the right side of the MCB/RCCB → signal contact/auxiliary switch in ON position → if fitted to MCB, remove bottom (RCD), if fitted to RCCB middle (MCB) coupling pin → plug devices together.



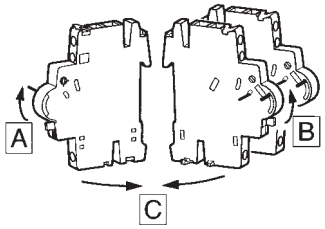
SK 0287 Z 02



SK 0288 Z 02

2. Mounting more than one S2C-S/H6R

Up to three S2C-H6R can be mounted.
Note: one signal contact max. fitted at first to MCB or RCCB
If fitted to an MCB, remove the bottom coupling pin (RCD), if fitted to an RCCB, remove the middle coupling pin (MCB), switch all signal contact/ auxiliary switches to the end position ON, plug them together and carry through a function control test.



SK 0285 Z 02

Function control test:

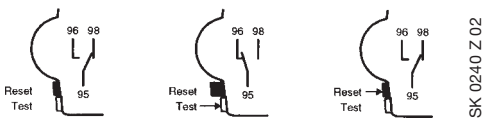
After all signal contacts/auxiliary switches or auxiliary switches have been mounted, use the upper coupling pin to switch on the devices (ON position). If the lower (for RCD) or, as the case may be, the middle (for MCB) coupling pin is operated, all devices must trip.

Now combination with MCB/RCCB:

RCCB or MCB must be in the ON position → remove coupling cover on the right side of the MCB/RCCB → signal contact/auxiliary switch in ON position → if fitted to MCB, remove bottom (RCD), if fitted to RCCB middle (MCB) coupling pin → plug devices together.

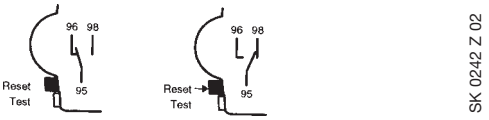
Test functions of the signal contact

in ON and OFF position after hand operation



SK 0240 Z 02

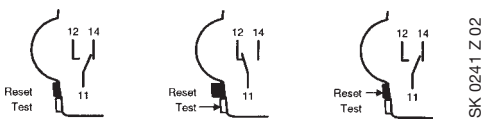
in ON position after tripping



SK 0242 Z 02

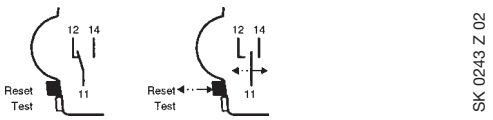
Test functions of the auxiliary switch

in ON position



SK 0241 Z 02

in OFF position



SK 0243 Z 02

Technical Data

Signal contact/auxiliary switch S2C-S/H6R and auxiliary switch S2C – H6R according to EN 62019

AC 14	U_e	400 V	230 V
	I_e	1 A	2 A
DC 12	U_e	220 V	110 V
	I_e	1 A	1.5 A
DC 13	U_e	60 V	24 V
	U_e	1.5 A	4 A

rated current I_{th}:	10 A
min. rated voltage U_{Bmin}:	24 V ~, 24 V⎓.
min. rated operational current:	5 VA ①
short-circuit withstand capacity:	230 V~ 1000 A with S 201 K 4
insulation coordination:	according to DIN VDE 0110 Parts 1 and 2
– overvoltage category:	III
– surge voltage:	4 kV (1.2/50 µs)
– pollution degree:	2
connection cross section:	0.75 ... 2.5 mm² (up to 2 x 1.5 mm²)
tightening torque:	1.2 Nm max.
contact stability in vibration test according to DIN IEC 68-2-6-:	5 g, 20 sweep cycles 5 ... 150 ... 5 Hz at 24 VAC/DC, 5 mA automatic reclosing < 10 ms
mech. service life:	10 000 operations

① The minimum rated operational current value applies in the case of operation and environmental conditions according to EN 60 204-1/1998 and EN 60 439-1/2000 if installed indoors and in clean ambient air: 24 VAC/DC, 5 mA (AC-12, DC-12)

1.2 Auxiliary switch type S2C-H6R

Description

The simple auxiliary switch without test functionality is appropriate for applications where it is only necessary to indicate the contact position of the circuit-breaker.
Up to three S2C-H6R can be butt-mounted, including combinations with the signal contact/auxiliary switch SC2-S/H6R.
Installation and technical data
the same as for signal contact/auxiliary switch SC2-S/H6R, see preceding page and above.

Installation and technical data

the same as for signal contact/auxiliary switch SC2-S/H6R, see preceding page and above.

2. Shunt trip S2C-A

Description

For distance tripping of the MCB. The shunt release has a relay coil with an integrated contact which disconnects the coil and the coil voltage if the MCB trips, this prevents the flow of current in the case of sustained coil voltage.

Technical data

type:	S2C - A1	S2C - A2
service voltage:	12 ... 60 V	110 ... 415 VAC and 110 ... 250 VDC

STOTZ-Shunt trip with automatic disconnecting within 10 milliseconds $U_B = U_n + 10 – 30$ %

	U_B	I_{Bmax}			U_B	I_{Bmax}
S2C-A1	12 VDC	2.2 A		S2C-A2	110 VDC	0.35 A
	12 VAC	2.5 A			110 VAC	0.5 A
	24 VDC	4.5 A			220 VDC	1.1 A
	24 VAC	5 A			230 VAC	1.0 A
	60 VDC	14 A			415 VAC	2.7 A
	60 VAC	8.8 A				

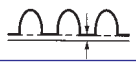
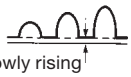
U_B = operating voltage I_{Bmax} = operating current

Description

Residual-current protective devices have a balance or, as the case may be, differential current transformer as measuring device that is connected with permanent magnet trip via the secondary winding. Residual-current protective devices cover a.c. fault current and pulsating d.c. fault current and are insensitive to current rushes up to 250 A, selective and short-time delayed tripping types up to 3,000 A). Pulse shape 8/20 according to DIN VDE 0432 Part 2.

STOTZ residual-current protective devices are surge-proof and thus insensitive to transient leakage current to earth, as may occur e.g. when switching fluorescent lamps, X-ray apparatus, IT systems and also thyristor control. (The value of the surge strength is indicated in the technical data information regarding the switching variants).

Protection through RCD of types AC, A and B according to IEC 755

form of residual current		**correct functioning of RCD ●**		
		a.c.- sensitive **type AC**	pulsating current-sensitive **type A**	d.c.-sensitive **type B**
sinusoidal a.c.	 suddenly applied  slowly rising	● F 200 AC	● F 200	●
pulsating d.c.	 suddenly applied with/without superimposed smooth d.c. of 6 mA  slowly rising		●	●
smooth d.c.				●

Selective RCCB F 200S

Is installed centrally and operates on a time-selective basis with respect to more sensitive downstream residual-current devices.
The result is a high degree of service security, as in the case of a fault, only the circuit affected will be switched off.
Due to their surge strength of up to 5,000 A/3,000 A, nuisance tripping of STOTZ main RCCBs caused by remote strike is ruled out.
They are therefore the perfect choice for the connection of freezers and agricultural applications (e.g. fans in intensive livestock husbandry) according to DIN VDE 0100 Part 705.

Short-time delayed RCCBs F 200 R

are RCCBs with high surge strength needed where apparatus causes high leakage currents when switched on or off (e.g. lighting circuits with ballast, long lines).

Application

To obtain a better level of security in all wiring systems, as well as in supply areas with respect to which codes of practice recommend or require the use of residual-current protective devices.

Tasks

Protection against electric shock

Measures for the protection against electric shock as provided for in DIN VDE 0100 Part 410. These measures are:

- Protection from indirect touch – as fault protection through disconnection of circuit in the case of excessive touch voltage caused by short circuit to exposed conductive part.
- Protection from direct touch – as additional protection through disconnection when conductive parts are touched. Dangerous leakage current is switched off within the shortest possible time if the rated residual current of the circuit-breakers is $I_{\Delta n} \leq 30$ mA, in the case of people protector FS 201 $I_{\Delta n} \leq 10$ mA.
- Protection against fire – protection against fire ignited by electricity if the nominal residual current of the circuit-breaker is $I_{\Delta n} \leq 300$ mA.

Technical data	**F 200**	**F 200 AC**	**F 200 R** short time delayed	**F 204 S** selective	**FS 201** RCBO
specifications:	DIN VDE 0664 Part 11, EN 61008-2-1				DIN VDE 0664 Part 21 and EN 61009/IEC 61009
No. of poles:	2-pole 4-pole	2-pole 4-pole	2-pole 4-pole	4-pole	
tripping characteristics:	–				B and C acc. to DIN VDE 0641 and EN 60898; K acc. to DIN VDE 0660 and EN 60947
rated current I_n:	16, 25, 40, 63 A	25, 40, 63 A		25, 40, 63 A	40 A, 63 A 6 to 32 (40) A
rated residual current $I_{\Delta n}$:	10, 30, 300 and 500 mA	30, 100 and 300 mA	30 mA	300 mA	10 mA, 30 mA, 300 mA
tripping range at ~ at ≂	0.50 ... 1.0 · $I_{\Delta n}$ 0.11 ... 1.4 · $I_{\Delta n}$				
tripping time ~ at 1 · $I_{\Delta n}$: at 2 · $I_{\Delta n}$: at 5 · $I_{\Delta n}$: at 500 A:	≤ 300 ms ≤ 40 ms	≤ 300 ms ≤ 40 ms	120 ... 300 ms 50 ... 150 ms 20 ... 40 ms	150 ... 500 ms 60 ... 200 ms 40 ... 150 ms 40 ... 150 ms	≤ 300 ms ≤ 40 ms
tripping time ≂ at 1 · 1,4 $I_{\Delta n}$: at 5 · 1,4 $I_{\Delta n}$:	≤ 300 ms ≤ 40 ms	– –	≤ 300 ms ≤ 40 ms	≤ 300 ms ≤ 50 ... 150 ms	≤ 300 ms ≤ 40 ms
rated switching capacity:	–			–	6 kA, φ 0,7
surge strength (impulse waveshape 8/20):	250 A		3000 A	5000 A	250 A
short-circuit withstand capacity:	10.000 A, in connection with an upstream fuse gL 100 A or the STOTZ selective main circuit-breaker S 700-E 100 A			10.000 A, in connection with an upstream fuse gL 100 A or the selective main circuit-breaker S 700-E 100 A	
rated voltage U_n:	2-pole: 230 V ~ 4-pole: 230/400 V ~			230/400 V ~	2-pole: 230 V ~
max. operating voltage U_{Bmax}:	U_n + 10 %				
operative range of test equipment U_T:	100 V ~ to 264 V ~				100 V ~ to 264 V ~ 100 V ~ to 264 V ~
insulation coordination according to DIN VDE 0110 Part 1 and 2 – overvoltage category: – pollution degree: – surge voltage U_{imp} (1,2/50): – power-frequency withstand voltage (50/60 Hz):	III, disconnector abilities 2 4 kV 2.5 kV				
frequency:	50/60 Hz				50/60 Hz
housing:	moulding grey				moulding grey
operating lever/test button:	blue				black/blue
degree of protection:	IP 20; in the distribution board IP 40; in moulded-plastic casing IP 55 (see accessories)				
dimensions:	see dimension drawings				
connection cross section:	1 to 16 mm² for finely-stranded to massive conductors for I_n to 40 A, 1 to 25 mm² for I_n 63 A				1 to 16 mm²
service life:	> 5.000 switches				
climatic resistance according to DIN IEC 68 Part 2-30: (RH = rel. humidity)	damp heat, cyclic (55 °C/28 cycles)				damp heat: 28 cycl. 55/95 ... 100 (°/RH) alterning climate: 25/95 - 40/93 (°C/RH) constant climate: 23/83, 40/93, 55/95 ... 100 (°C/RH)
ambient temperature:	$T_{max.}$ + 55 °C $T_{min.}$ – 25 °C				
vibration resistance according to:	DIN VDE 0664 Part 1/10.85 and EN 61008				DIN VDE 0664 Part 2/10.85 and EN 61009
terminals:	bi-directional cylinder-lift terminal				
trip-free mechanism:	yes				
connection:	individually or collectively via a busbar				
supplementary devices:	type S2C-S/HR s. pagee 17				in preparation

Installation and operation instructions

Installation

Can be installed in any mounting position due to snap-on fixing to DIN rails EN 50 022, 35 mm width.

A If RCD F 200/FS 201 is installed without cross-wiring , hinge the upper part into the DIN rail and push to let the lower part of the device snap into place **(1)**. The device is released in the reverse order, after the quick fastener has been removed with a screw driver **(2)**.

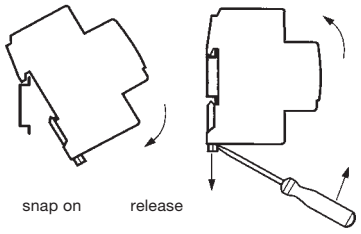
B To release RCD F 200/FS 201 that are cross-wired with **System pro *M* compact** busbars, first remove the clamping screws. Then, pull the lower part of the F 200/FS 201 forwards **(1)** and lift it straight up **(1a)**, then, the quick fastener will recede **(1b)**.

C The busbar is deallocated and the RCD F 200/FS 201 can be pulled out by lifting the device forwards **(2)**.

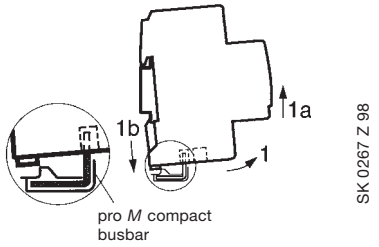
D The cross-wiring is re-inserted in the reverse order. First, open the clamping screws and pull out the quick fastener **until it locks into place for the first time (3)**. Then, take the RCD F 200/FS 201 and insert it with the rear terminal side onto the pins of the **System pro *M* compact** busbar **(4)**, turn it into the direction of the DIN rail **(4a)** and shift it vertically downwards **(4b)**, to let the quick fastener snap back into place **(4c)**.

Attention: Do not forget to re-tighten the clamping screws.

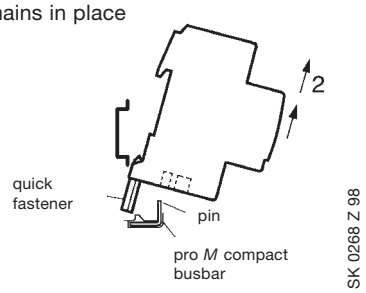
A Assembly, disassembly without pro *M* compact cross wiring



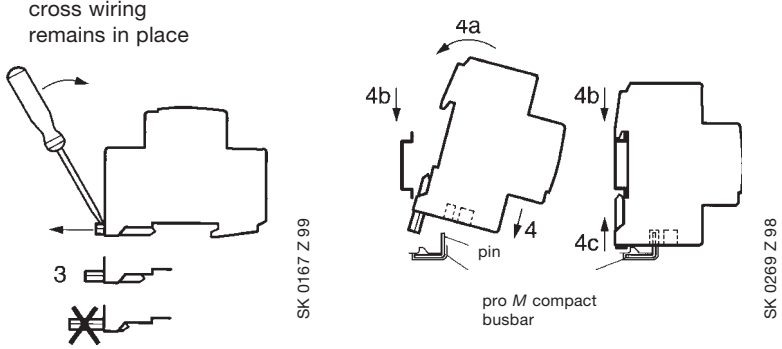
B Detaching when pro *M* compact cross wiring remains in place



C Removal when pro *M* compact cross wiring remains in place

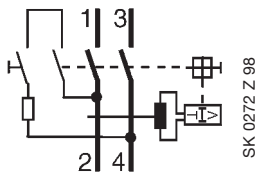


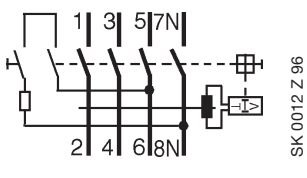
D Insertion when pro *M* compact cross wiring remains in place



Connection

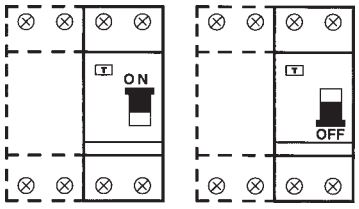
Feeder optional, top or bottom. Ensure that conductors are connected correctly and firmly.
If the 4-pole RCCB is operated as a 2-pole RCCB, use terminals 5 and 7 or, as the case may be, 6 and 8 to make sure that the test button function of the RCCB is working. In the case of a three-phase system with U_n = 127/230 V (without neutral N), terminals 4 and 8 must be bridged.





Operation

F 200/FS 201 is switched ON or OFF with the blue operating lever.



Operating test

To test proper functioning, press the blue test button when the device is switched ON, the RCCB must trip immediately (the knob jumps into the „0“ switching position).
It is necessary to test the RCD halfyearly, if no other regional or user specified additional test are required.

Test of protective measure

Except for the operating test, the effectiveness of the protection provided within the installation must be tested according to the applicable codes of practice. For RCD protection, the maximum permissible earthing resistance values are as follows:

max. touch voltage U_L	max. earthing resistance at nominal residual current				
	10 mA	30 mA	100 mA	300 mA	500 mA
25 V	2500 Ω	833 Ω	250 Ω	83 Ω	50 Ω
50 V	5000 Ω	1666 Ω	500 Ω	166 Ω	100 Ω

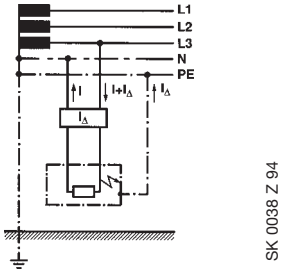
Malfunctioning

The high-quality STOTZ residual-current-operated circuit-breakers are thorougly adjusted and tested in our works. Where damage occurs (caused e.g. by transport, storage, etc.) no repair work must be undertaken.
If the device responds immediately after putting the RCCB into operation, check the downstream active circuit and any connected current-consuming apparatus for earth fault current. Remove insulation faults or connections between the neutral conductor and the protective conductor existing in load circuit. Where the RCCB does not trip in the first operating test after pressing the test button, check first whether the test circuit is connected correctly.

Where none of the above causes apply, or should the operating test be completed unsuccessfully, the RCCB must be replaced.

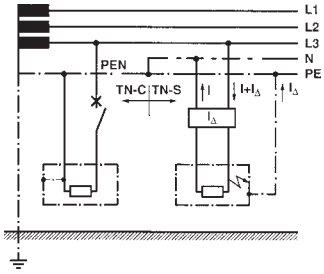
Opening the device will lead to a loss of warranty.

Examples for the protection against electric shock



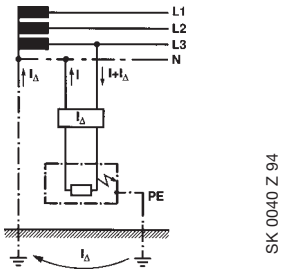
SK 0038 Z 94

TN-S system (protective multiple earthing)
separate neutral and protective conductors throughout the network



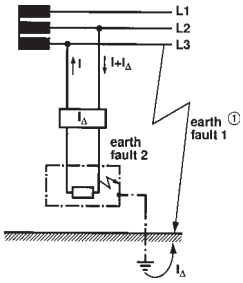
SK 0005 Z 97

TN-C-S system
neutral and protective conductor (PEN) combined in one part of the network.



SK 0040 Z 94

TT system



① only indicated by line isolation monitor

SK 0017 Z 95

IT system
The residual-current-operated circuit-breaker trips if a double fault occurs, as e.g. is indicated as fault 1 and fault 2 above.

Explanation of type codes

L1, L2, L3	„**l**ine“ phase conductor	I	„**i**nsulation“
PE	„**p**rotection **e**arth“	C	„**c**ombined“ PE and N (PEN)
N	„**n**eutral“	S	„**s**eparated“ PE and N
PEN	PE and N combined		
T	„**t**erre“ direct bond to earth	„…“	terms used in international IEC standard

System pro *M* compact ®

Busbars for series S 200, S 200 M, F 200, FS 201

Description

The newly developed **pro *M* compact** cross wiring busbar system includes everything that is needed for secure and economic connections of distribution build-in devices of the series S 200 and F 200.
The optimised quick fastener of the S 200 series, F 200 , when used together with the **System pro *M* compact** cross wiring busbars, makes removing and inserting devices a quick and easy job, and the cross wiring of other devices remains in place, at that.
Busbars are supplied ready-to-use and in standard lengths, time-consuming cutting to length or end caps are no longer required.
MCBs and RCCBs of the customary **System pro *M*** technology can also be easily cross-wired with the new **System pro *M* compact** busbars.

Technical data

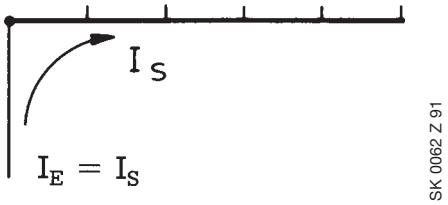
specifications:	VDE 0660 Part 500, DIN EN 60439-1: 1994	test surge voltage: (1,2/50)	6,2 kV
busbar material:	SF-Cu F 24	short-circuit withstand capacity:	25 kA
insulating profile material:	plastic, temperature resistant ≥ 90 °C flame-retardant, self-extinguishing dioxine- and halogene-free	climatic resistance:	constant climate L23/83; 40/92 55/20 according to DIN 50 015 humid heat, 28 cycles (≥ IEC 68 Part 2 - 30)
busbar cross section:	10 mm²	insulation coordination: April 1997 (IEC 664)	acc. to VDE 0110 Part 1
max. operating voltage:	440 V	- overvoltage category:	III
rated surge voltage:	4 kV	- pollution degree:	2

Load capability depending on the feed point

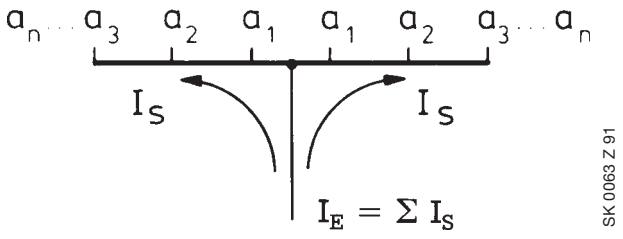
bar cross section	10 mm²	16 mm²
① max. busbar current I_S/phase	63 A	80 A
② max. current in branch I_E/phase	100 A	130 A*

* If the device is fed via the device terminal, ensure that - irrespective of the current carrying capacity (I_S) of the busbar - the following values are not exceeded:
For devices up to and including 40 A I_n max. 110 A and for 50/63 A I_n max. 140 A.

① incoming supply at the beginning of the busbar

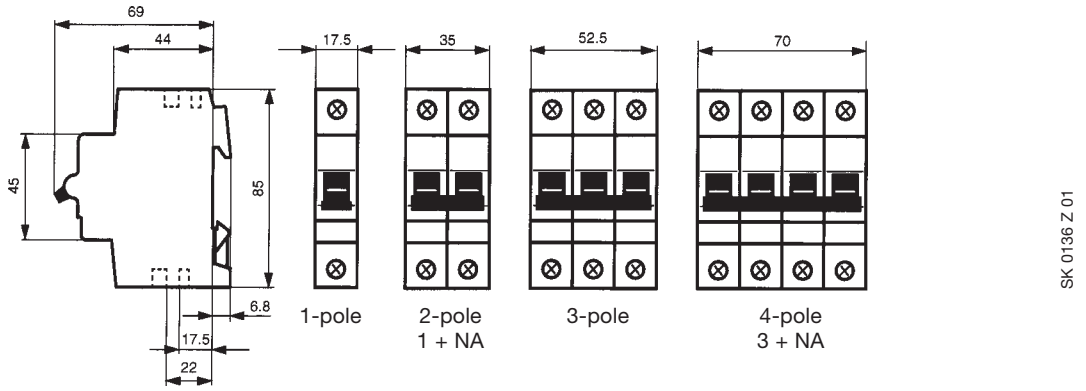


② incoming supply within the busbar or centre-fed

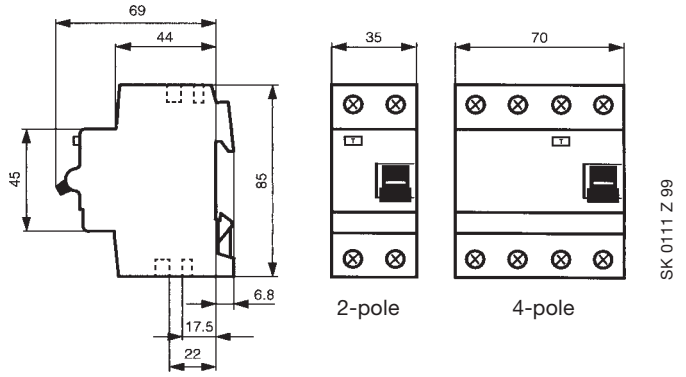


If the device is centre-fed (see picture to the right), ensure that the combined outgoing currents a_1 ...a_n per branch do not exceed the max. busbar current I_S/phase referred to above.

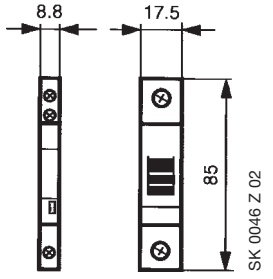
Dimensions **measurements in mm**



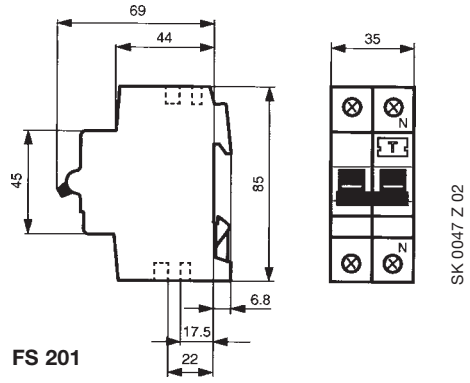
S 201, S 202, S 203, S 204



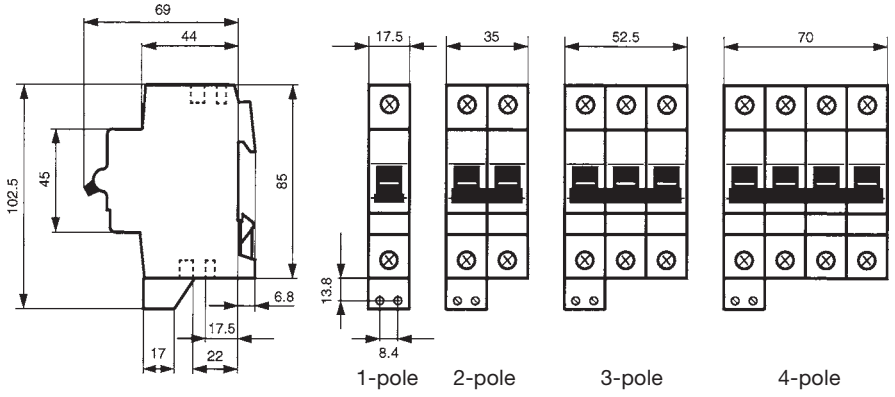
F 202, F 204, F 204 S



S2C-S/H 6 R **S2C-A...**
S2C-H 6 R **S2C-UA...**



FS 201

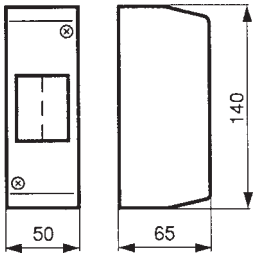


S 201 H, S 202 H, S 203 H, S 204 H

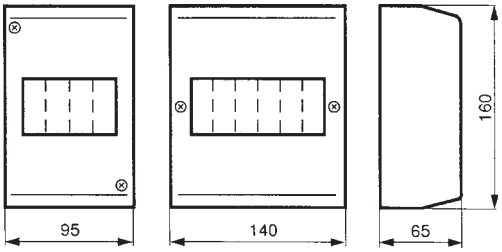
Accessories
Dimensions

Terminal covers

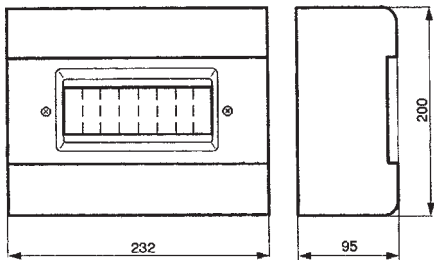
measurements in mm



PCD 2 N SK 0136 Z 96

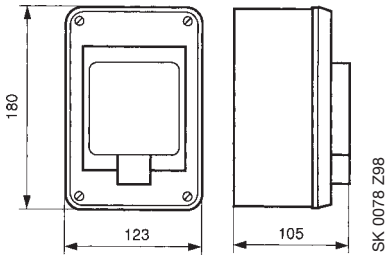


PCD 4 N **PCD 6 N** SK 0137 Z 96

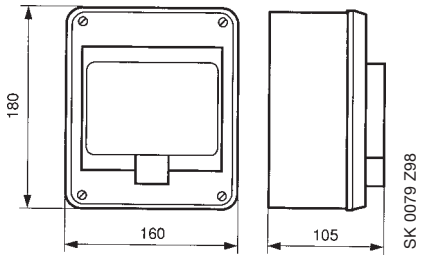


PCD 8 N SK 0138 Z 96

Enclosure of moulded-plastic

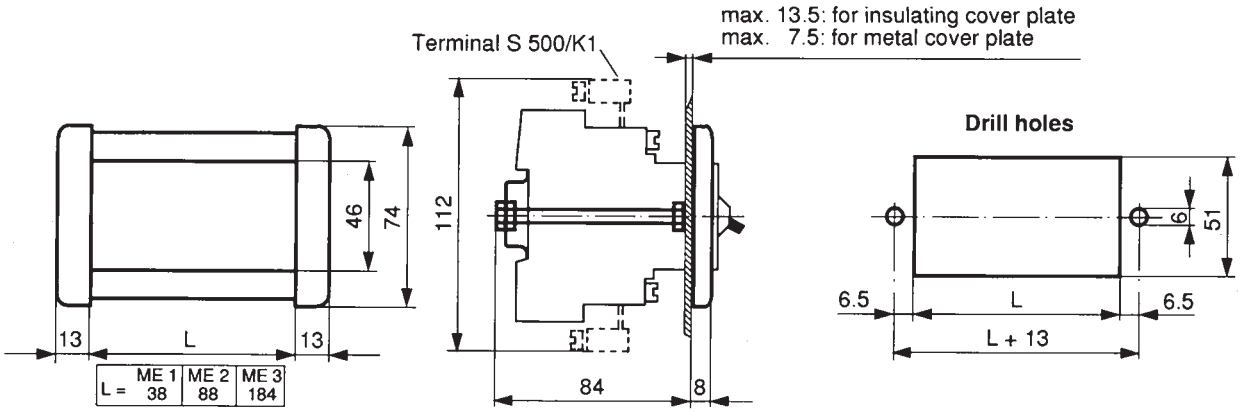


QES 4/3 N



QES 6/3 N

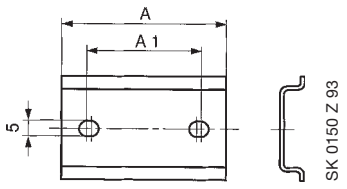
Flush frame



type	dim. L	max. No. of modules (1 module = 17.5 mm)
S 500 - ME 1	38 mm	for 2 Module
S 500 - ME 2	88 mm	for 5 Module
S 500 - ME 3	184 mm	for 10 Module

Mounting rails

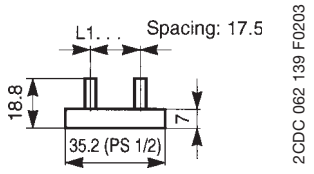
① In the case of DSW 1, the drill holes are vertical



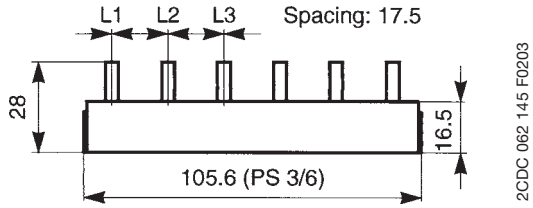
name	A	A1
DSW	17.5	15
DSW 2	35	20
DSW 3	52.5	37.5
DSW 4	70	55
DSW 6	105	90

Dimensions

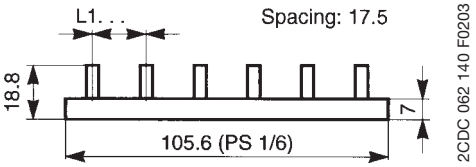
measurements in mm



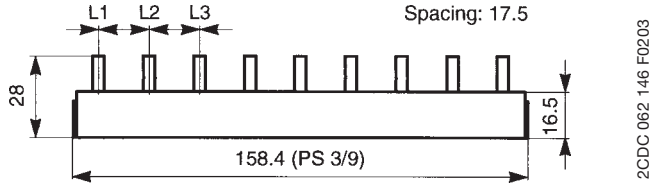
PS 1/2



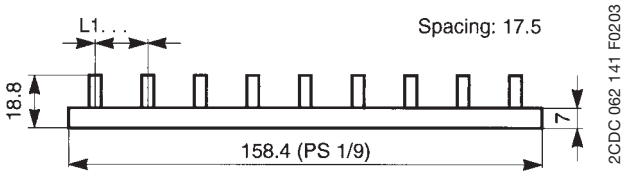
PS 3/6



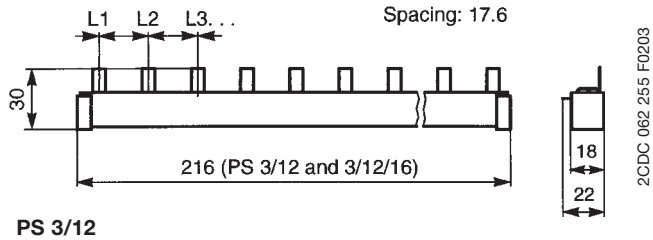
PS 1/6



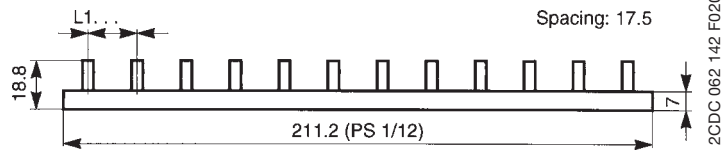
PS 3/9



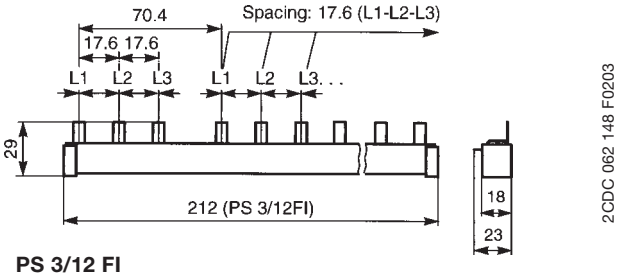
PS 1/9



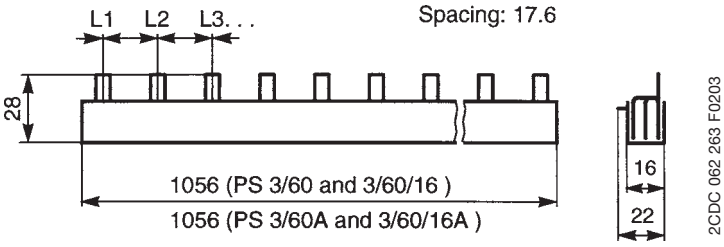
PS 3/12



PS 1/12

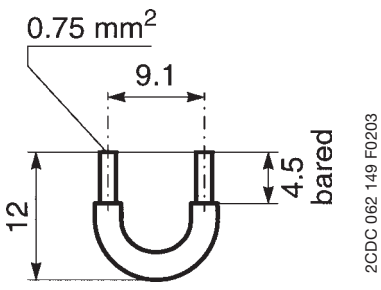


PS 3/12 FI



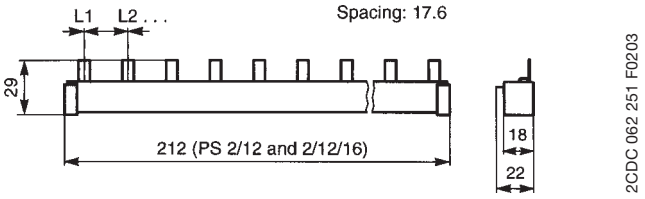
PS 3/60

auxiliary contact bridge HKB

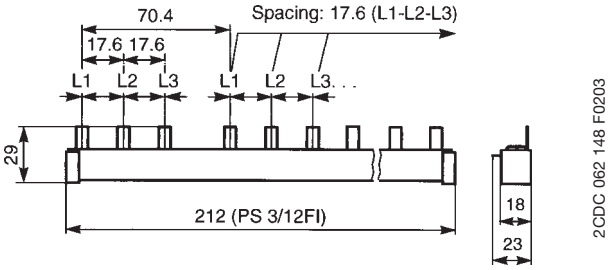


Dimensions

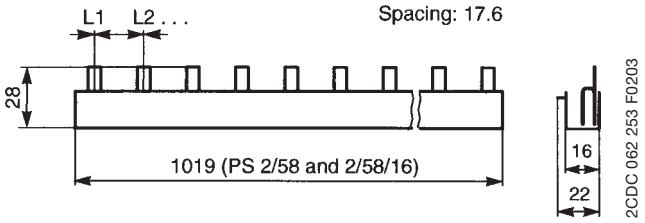
measurements in mm



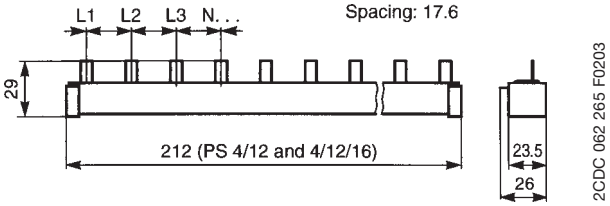
PS 2/12



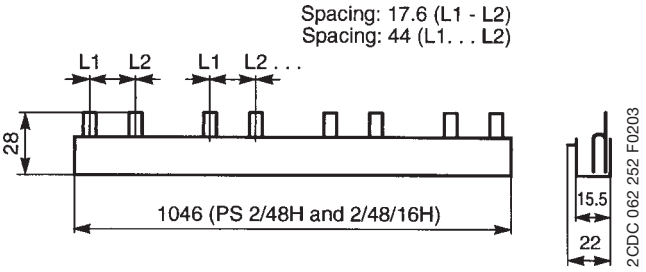
PS 3/12 FI H



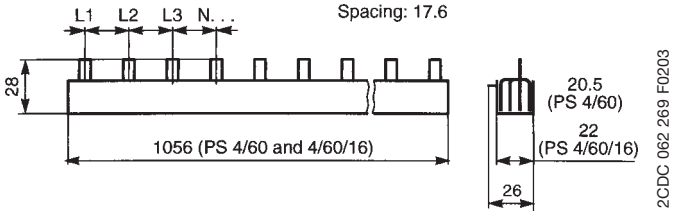
PS 2/58



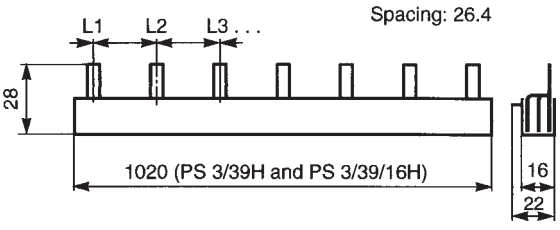
PS 4/12



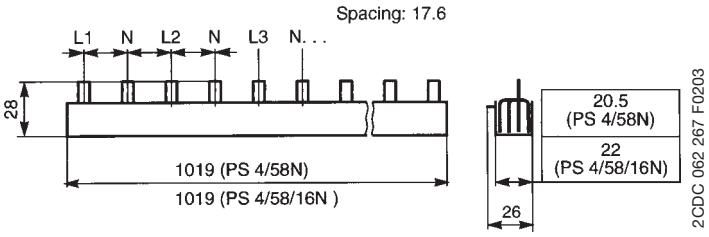
PS 2/48



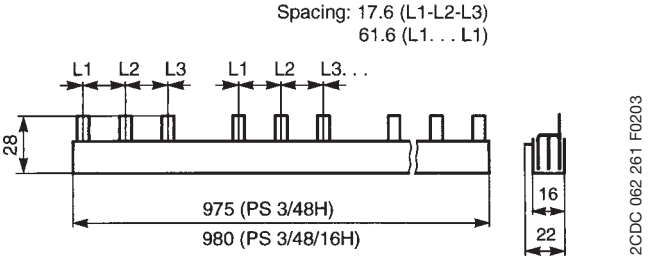
PS 4/60



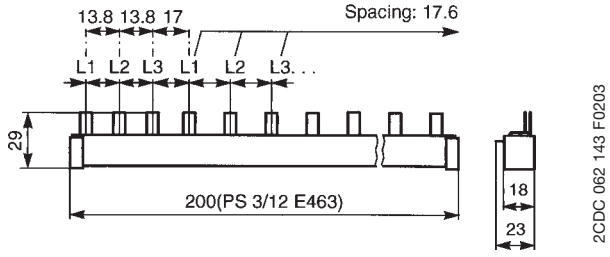
PS 3/39 H



PS 4/58 N



PS 3/48 H



PS 3/12 E 463

B

6000
3

SK 019 B 99

SK 020 B99

SK 021 B99

SK 087 B 01

Selection table

No. of poles	rated current I_n A	order details type code	order code	bbn 40 16779 EAN	price 1 piece €	price group	w'ght 1 pc. kg	pack. unit pc.
1	6	**S 201-B 6**	2CDS 251 001 R0065	**46490 1**			0.125	10/40
	10	**S 201-B 10**	2CDS 251 001 R0105	**46380 5**				
	13	**S 201-B 13**	2CDS 251 001 R0135	**46500 7**				
	16	**S 201-B 16**	2CDS 251 001 R0165	**57863 9**				
	20 ①	**S 201-B 20**	2CDS 251 001 R0205	**46510 6**				
	25	**S 201-B 25**	2CDS 251 001 R0255	**46520 5**				
U_{Bmax} 440 V ~ 60 V ⎓	32 ②	**S 201-B 32**	2CDS 251 001 R0325	**46530 4**				
	40 ③	**S 201-B 40**	2CDS 251 001 R0405	**46540 3**				
	50	**S 201-B 50**	2CDS 251 001 R0505	**55092 5**				
	63	**S 201-B 63**	2CDS 251 001 R0635	**55093 2**				
2	6	**S 202-B 6**	2CDS 252 001 R0065	**46640 0**			0.250	5/20
	10	**S 202-B 10**	2CDS 252 001 R0105	**46660 8**				
	13	**S 202-B 13**	2CDS 252 001 R0135	**46670 7**				
	16	**S 202-B 16**	2CDS 252 001 R0165	**46690 5**				
	20	**S 202-B 20**	2CDS 252 001 R0205	**46700 1**				
	25	**S 202-B 25**	2CDS 252 001 R0255	**46710 0**				
U_{Bmax} 440 V ~ 125 V ⎓ ④	32	**S 202-B 32**	2CDS 252 001 R0325	**46720 9**				
	40	**S 202-B 40**	2CDS 252 001 R0405	**46740 7**				
	50	**S 202-B 50**	2CDS 252 001 R0505	**55094 9**				
	63	**S 202-B 63**	2CDS 252 001 R0635	**55095 6**				
3	6	**S 203-B 6**	2CDS 253 001 R0065	**46860 2**			0.375	3/12
	10	**S 203-B 10**	2CDS 253 001 R0105	**46870 1**				
	13	**S 203-B 13**	2CDS 253 001 R0135	**46890 9**				
	16	**S 203-B 16**	2CDS 253 001 R0165	**46900 5**				
	20 ①	**S 203-B 20**	2CDS 253 001 R0205	**46910 4**				
	25	**S 203-B 25**	2CDS 253 001 R0255	**46920 3**				
U_{Bmax} 440 V ~	32 ②	**S 203-B 32**	2CDS 253 001 R0325	**46930 2**				
	40 ③	**S 203-B 40**	2CDS 253 001 R0405	**46940 1**				
	50	**S 203-B 50**	2CDS 253 001 R0505	**55096 3**				
	63	**S 203-B 63**	2CDS 253 001 R0635	**55097 0**				
4	6	**S 204-B 6**	2CDS 254 001 R0065	**52895 5**			0.500	2
	10	**S 204-B 10**	2CDS 254 001 R0105	**52896 2**				
	13	**S 204-B 13**	2CDS 254 001 R0135	**52897 9**				
	16	**S 204-B 16**	2CDS 254 001 R0165	**52898 6**				
	20	**S 204-B 20**	2CDS 254 001 R0205	**52899 3**				
	25	**S 204-B 25**	2CDS 254 001 R0255	**52900 6**				
U_{Bmax} 440 V ~ 125 V ⎓ ④	32	**S 204-B 32**	2CDS 254 001 R0325	**52901 3**				
	40	**S 204-B 40**	2CDS 254 001 R0405	**52902 0**				
	50	**S 204-B 50**	2CDS 254 001 R0505	**55098 7**				
	63	**S 204-B 63**	2CDS 254 001 R0635	**55099 4**				

① suitable for flow-type heaters 12 kW
② suitable for flow-type heaters 18 kW
③ suitable for flow-type heaters 21, 24 and 27 kW
④ U_{Bmax} 125 V ⎓ with 2 poles connected in series

B

6000
3

SK 033 B 02

SK 029 B 02

Selection table

No. of poles	rated current I_n A	**order details** **type code**	order code	**bbn 40 16779 EAN**	**price** 1 piece **€**	price group	w'ght 1 pc. kg	pack. unit pc.
With disconnecting neutral NA								
1 + NA	6	**S 201-B 6 NA**	2CDS 251 103 R0065	**53158 0**			0.250	50/40
	10	**S 201-B 10 NA**	2CDS 251 103 R0105	**53159 7**				
	13	**S 201-B 13 NA**	2CDS 251 103 R0135	**53160 3**				
	16	**S 201-B 16 NA**	2CDS 251 103 R0165	**53161 0**				
	20 ①	**S 201-B 20 NA**	2CDS 251 103 R0205	**53162 7**				
	25	**S 201-B 25 NA**	2CDS 251 103 R0255	**53163 4**				
U_{Bmax} 440 V ~ 60 V ⎓	32 ②	**S 201-B 32 NA**	2CDS 251 103 R0325	**53164 1**				
	40 ③	**S 201-B 40 NA**	2CDS 251 103 R0405	**53165 8**				
	50	**S 201-B 50 NA**	2CDS 251 103 R0505	**53615 8**				
	63	**S 201-B 63 NA**	2CDS 251 103 R0635	**53614 1**				
3 + NA	6	**S 203-B 6 NA**	2CDS 253 103 R0065	**53228 0**			0.500	2/20
	10	**S 203-B 10 NA**	2CDS 253 103 R0105	**53229 7**				
	13	**S 203-B 13 NA**	2CDS 253 103 R0135	**53230 3**				
	16	**S 203-B 16 NA**	2CDS 253 103 R0165	**53231 0**				
	20 ①	**S 203-B 20 NA**	2CDS 253 103 R0205	**53232 7**				
	25	**S 203-B 25 NA**	2CDS 253 103 R0255	**53233 4**				
U_{Bmax} 440 V ~	32 ②	**S 203-B 32 NA**	2CDS 253 103 R0325	**53234 1**				
	40 ③	**S 203-B 40 NA**	2CDS 253 103 R0405	**53235 8**				
	50	**S 203-B 50 NA**	2CDS 253 103 R0505	**53616 5**			0.580	
	63	**S 203-B 63 NA**	2CDS 253 103 R0635	**53617 2**				

① suitable for flow-type heaters 12 kW
② suitable for flow-type heaters 18 kW
③ suitable for flow-type heaters 21, 24 and 27 kW

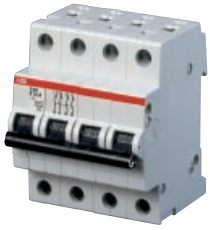
C

6000
3

SK 018 B 01

SK 019 B 01

SK 020 B 019



SK 030 B 01

Selection table

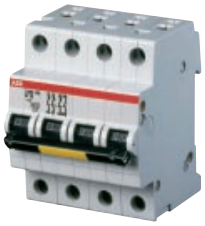
No. of poles	rated current I_n A	order details type code	order code	bbn 40 16779 EAN	price 1 piece €	price group	w'ght 1 pc. kg	pack. unit pc.
1	0.5	**S 201-C 0.5**	2CDS 251 001 R0984	**52329 5**			0.125	10/40
	1	**S 201-C 1**	2CDS 251 001 R0014	**52331 8**				
	1.6	**S 201-C 1.6**	2CDS 251 001 R0974	**52330 1**				
	2	**S 201-C 2**	2CDS 251 001 R0024	**52332 5**				
	3	**S 201-C 3**	2CDS 251 001 R0034	**52333 2**				
	4	**S 201-C 4**	2CDS 251 001 R0044	**52334 9**				
	6	**S 201-C 6**	2CDS 251 001 R0064	**46400 0**				
	8	**S 201-C 8**	2CDS 251 001 R0084	**46410 9**				
	10	**S 201-C 10**	2CDS 251 001 R0104	**46420 8**				
	13	**S 201-C 13**	2CDS 251 001 R0134	**46430 7**				
	16	**S 201-C 16**	2CDS 251 001 R0164	**46440 6**				
	20 ①	**S 201-C 20**	2CDS 251 001 R0204	**46450 5**				
U_{Bmax} 440 V ~ 60 V ⎓	25	**S 201-C 25**	2CDS 251 001 R0254	**46460 4**				
	32 ②	**S 201-C 32**	2CDS 251 001 R0324	**46470 3**				
	40 ③	**S 201-C 40**	2CDS 251 001 R0404	**46480 2**				
	50	**S 201-C 50**	2CDS 251 001 R0504	**55100 7**				
	63	**S 201-C 63**	2CDS 251 001 R0634	**55101 4**				
2	0.5	**S 202-C 0.5**	2CDS 252 001 R0984	**52335 6**			0.250	5/20
	1	**S 202-C 1**	2CDS 252 001 R0014	**52336 3**				
	1.6	**S 202-C 1.6**	2CDS 252 001 R0974	**52337 0**				
	2	**S 202-C 2**	2CDS 252 001 R0024	**52338 7**				
	3	**S 202-C 3**	2CDS 252 001 R0034	**52339 4**				
	4	**S 202-C 4**	2CDS 252 001 R0044	**52340 0**				
	6	**S 202-C 6**	2CDS 252 001 R0064	**46550 2**				
	8	**S 202-C 8**	2CDS 252 001 R0084	**46560 1**				
	10	**S 202-C 10**	2CDS 252 001 R0104	**46570 0**				
	13	**S 202-C 13**	2CDS 252 001 R0134	**46580 9**				
	16	**S 202-C 16**	2CDS 252 001 R0164	**46590 8**				
	20	**S 202-C 20**	2CDS 252 001 R0204	**46600 4**				
U_{Bmax} 440 V ~ 125 V ⎓ ④	25	**S 202-C 25**	2CDS 252 001 R0254	**46610 3**				
	32	**S 202-C 32**	2CDS 252 001 R0324	**46620 2**				
	40	**S 202-C 40**	2CDS 252 001 R0404	**46630 1**				
	50	**S 202-C 50**	2CDS 252 001 R0504	**55104 5**				
	63	**S 202-C 63**	2CDS 252 001 R0634	**55105 2**				
3	0.5	**S 203-C 0.5**	2CDS 253 001 R0984	**52341 7**			0.375	3/12
	1	**S 203-C 1**	2CDS 253 001 R0014	**52342 4**				
	1.6	**S 203-C 1.6**	2CDS 253 001 R0974	**52343 1**				
	2	**S 203-C 2**	2CDS 253 001 R0024	**52344 8**				
	3	**S 203-C 3**	2CDS 253 001 R0034	**52345 5**				
	4	**S 203-C 4**	2CDS 253 001 R0044	**52346 2**				
	6	**S 203-C 6**	2CDS 253 001 R0064	**46750 6**				
	8	**S 203-C 8**	2CDS 253 001 R0084	**46760 5**				
	10	**S 203-C 10**	2CDS 253 001 R0104	**46780 3**				
	13	**S 203-C 13**	2CDS 253 001 R0134	**46790 2**				
	16	**S 203-C 16**	2CDS 253 001 R0164	**46800 8**				
	20 ①	**S 203-C 20**	2CDS 253 001 R0204	**46810 7**				
U_{Bmax} 440 V ~	25	**S 203-C 25**	2CDS 253 001 R0254	**46820 6**				
	32 ②	**S 203-C 32**	2CDS 253 001 R0324	**46830 5**				
	40 ③	**S 203-C 40**	2CDS 253 001 R0404	**46840 4**				
	50	**S 203-C 50**	2CDS 253 001 R0504	**55106 9**				
	63	**S 203-C 63**	2CDS 253 001 R0634	**55107 6**				
4	0.5	**S 204-C 0.5**	2CDS 254 001 R0984	**52911 2**			0.500	2
	1	**S 204-C 1**	2CDS 254 001 R0014	**52912 9**				
	1.6	**S 204-C 1.6**	2CDS 254 001 R0974	**52913 6**				
	2	**S 204-C 2**	2CDS 254 001 R0024	**52914 3**				
	3	**S 204-C 3**	2CDS 254 001 R0034	**52915 0**				
	4	**S 204-C 4**	2CDS 254 001 R0044	**52916 7**				
	6	**S 204-C 6**	2CDS 254 001 R0064	**52917 4**				
	8	**S 204-C 8**	2CDS 254 001 R0084	**52918 1**				
	10	**S 204-C 10**	2CDS 254 001 R0104	**52919 8**				
	13	**S 204-C 13**	2CDS 254 001 R0134	**52920 4**				
	16	**S 204-C 16**	2CDS 254 001 R0164	**52921 1**				
	20	**S 204-C 20**	2CDS 254 001 R0204	**52922 8**				
U_{Bmax} 440 V ~ 125 V ⎓ ④	25	**S 204-C 25**	2CDS 254 001 R0254	**52923 5**				
	32	**S 204-C 32**	2CDS 254 001 R0324	**52924 2**				
	40	**S 204-C 40**	2CDS 254 001 R0404	**52925 9**				
	50	**S 204-C 50**	2CDS 254 001 R0504	**55110 6**				
	63	**S 204-C 63**	2CDS 254 001 R0634	**55111 3**				

① suitable for flow-type heaters 12 kW
② suitable for flow-type heaters 18 kW
③ suitable for flow-type heaters 21, 24 and 27 kW
④ U_{Bmax} 125 V ⎓ with 2 poles connected in series

C

6000
3

SK 033 B 02



SK 029 B 02

Selection table

No. of poles	rated current I_n A	order details type code	order code	bbn 40 16779 EAN	price 1 piece €	price group	w'ght 1 pc. kg	pack. unit pc.
With disconnecting neutral NA								
1 + NA	0.5	**S 201-C 0.5 NA**	2CDS 251 103 R0984	**53166 5**			0.250	5
	1	**S 201-C 1 NA**	2CDS 251 103 R0014	**53167 2**				
	1.6	**S 201-C 1.6 NA**	2CDS 251 103 R0974	**53168 9**				
	2	**S 201-C 2 NA**	2CDS 251 103 R0024	**53169 6**				
	3	**S 201-C 3 NA**	2CDS 251 103 R0034	**53170 2**				
	4	**S 201-C 4 NA**	2CDS 251 103 R0044	**53172 6**				
	6	**S 201-C 6 NA**	2CDS 251 103 R0064	**53173 3**				
	8	**S 201-C 8 NA**	2CDS 251 103 R0084	**53174 0**				
	10	**S 201-C 10 NA**	2CDS 251 103 R0104	**53175 7**				
	13	**S 201-C 13 NA**	2CDS 251 103 R0134	**53176 4**				
	16	**S 201-C 16 NA**	2CDS 251 103 R0164	**53177 1**				
	20 ①	**S 201-C 20 NA**	2CDS 251 103 R0204	**53178 8**				
	25	**S 201-C 25 NA**	2CDS 251 103 R0254	**53179 5**				
	32 ②	**S 201-C 32 NA**	2CDS 251 103 R0324	**53180 1**				
	40 ③	**S 201-C 40 NA**	2CDS 251 103 R0404	**53181 8**				
U_{Bmax} 440 V ~ 60 V ⎓	50	**S 201-C 50 NA**	2CDS 251 103 R0504	**55102 1**			0.290	
	63	**S 201-C 63 NA**	2CDS 251 103 R0634	**55103 8**				
3 + NA	0.5	**S 203-C 0.5 NA**	2CDS 253 103 R0984	**53236 5**			0.500	2
	1	**S 203-C 1 NA**	2CDS 253 103 R0014	**53237 2**				
	1.6	**S 203-C 1.6 NA**	2CDS 253 103 R0974	**53238 9**				
	2	**S 203-C 2 NA**	2CDS 253 103 R0024	**53240 2**				
	3	**S 203-C 3 NA**	2CDS 253 103 R0034	**53241 9**				
	4	**S 203-C 4 NA**	2CDS 253 103 R0044	**53242 6**				
	6	**S 203-C 6 NA**	2CDS 253 103 R0064	**53243 3**				
	8	**S 203-C 8 NA**	2CDS 253 103 R0084	**53244 0**				
	10	**S 203-C 10 NA**	2CDS 253 103 R0104	**53245 7**				
	13	**S 203-C 13 NA**	2CDS 253 103 R0134	**53246 4**				
	16	**S 203-C 16 NA**	2CDS 253 103 R0164	**53247 1**				
	20 ①	**S 203-C 20 NA**	2CDS 253 103 R0204	**53248 8**				
	25	**S 203-C 25 NA**	2CDS 253 103 R0254	**53249 5**				
	32 ②	**S 203-C 32 NA**	2CDS 253 103 R0324	**53250 1**				
	40 ③	**S 203-C 40 NA**	2CDS 253 103 R0404	**53251 8**				
U_{Bmax} 440 V ~	50	**S 203-C 50 NA**	2CDS 253 103 R0504	**55108 3**			0.580	
	63	**S 203-C 63 NA**	2CDS 253 103 R0634	**55109 0**				

① suitable for flow-type heaters 12 kW
② suitable for flow-type heaters 18 kW
③ suitable for flow-type heaters 21, 24 and 27 kW

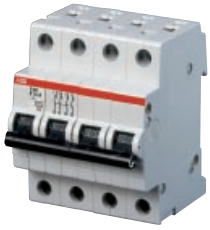
D

6000
3

SK 018 B 01

SK 019 B 01

SK 020 B 019



SK 030 B 01

Selection table

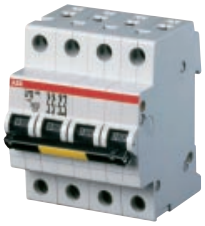
No. of poles	rated current I_n A	order details type code	order code	bbn 40 16779 EAN	price 1 piece €	price group	w'ght 1 pc. kg	pack. unit pc.
1	0.5	**S 201-D 0.5**	2CDS 251 001 R0981	**52993 8**			0.125	10/40
	1	**S 201-D 1**	2CDS 251 001 R0011	**52994 5**				
	1.6	**S 201-D 1.6**	2CDS 251 001 R0971	**52995 2**				
	2	**S 201-D 2**	2CDS 251 001 R0021	**52996 9**				
	3	**S 201-D 3**	2CDS 251 001 R0031	**52997 6**				
	4	**S 201-D 4**	2CDS 251 001 R0041	**52998 3**				
	6	**S 201-D 6**	2CDS 251 001 R0061	**52999 0**				
	8	**S 201-D 8**	2CDS 251 001 R0081	**53000 2**				
	10	**S 201-D 10**	2CDS 251 001 R0101	**53001 9**				
	13	**S 201-D 13**	2CDS 251 001 R0131	**53002 6**				
	16	**S 201-D 16**	2CDS 251 001 R0161	**53003 3**				
	20 ①	**S 201-D 20**	2CDS 251 001 R0201	**53004 0**				
U_{Bmax} 440 V ~ 60 V ⎓	25	**S 201-D 25**	2CDS 251 001 R0251	**53005 7**				
	32 ②	**S 201-D 32**	2CDS 251 001 R0321	**53006 4**				
	40 ③	**S 201-D 40**	2CDS 251 001 R0401	**53007 1**				
	50	**S 201-D 50**	2CDS 251 001 R0501	**55199 1**				
	63	**S 201-D 63**	2CDS 251 001 R0631	**55200 4**				
2	0.5	**S 202-D 0.5**	2CDS 252 001 R0981	**53048 4**			0.250	5/20
	1	**S 202-D 1**	2CDS 252 001 R0011	**53049 1**				
	1.6	**S 202-D 1.6**	2CDS 252 001 R0971	**53050 7**				
	2	**S 202-D 2**	2CDS 252 001 R0021	**53051 4**				
	3	**S 202-D 3**	2CDS 252 001 R0031	**53052 1**				
	4	**S 202-D 4**	2CDS 252 001 R0041	**53053 8**				
	6	**S 202-D 6**	2CDS 252 001 R0061	**53054 5**				
	8	**S 202-D 8**	2CDS 252 001 R0081	**53055 2**				
	10	**S 202-D 10**	2CDS 252 001 R0101	**53058 3**				
	13	**S 202-D 13**	2CDS 252 001 R0131	**53060 6**				
	16	**S 202-D 16**	2CDS 252 001 R0161	**53061 3**				
	20	**S 202-D 20**	2CDS 252 001 R0201	**53063 7**				
U_{Bmax} 440 V ~ 125 V ⎓ ④	25	**S 202-D 25**	2CDS 252 001 R0251	**53064 4**				
	32	**S 202-D 32**	2CDS 252 001 R0321	**53065 1**				
	40	**S 202-D 40**	2CDS 252 001 R0401	**53066 8**				
	50	**S 202-D 50**	2CDS 252 001 R0501	**55203 5**				
	63	**S 202-D 63**	2CDS 252 001 R0631	**55204 2**				
3	0.5	**S 203-D 0.5**	2CDS 253 001 R0981	**53081 1**			0.375	3/12
	1	**S 203-D 1**	2CDS 253 001 R0011	**53082 8**				
	1.6	**S 203-D 1.6**	2CDS 253 001 R0971	**53083 5**				
	2	**S 203-D 2**	2CDS 253 001 R0021	**53084 2**				
	3	**S 203-D 3**	2CDS 253 001 R0031	**53085 9**				
	4	**S 203-D 4**	2CDS 253 001 R0041	**53086 6**				
	6	**S 203-D 6**	2CDS 253 001 R0061	**53088 0**				
	8	**S 203-D 8**	2CDS 253 001 R0081	**53089 7**				
	10	**S 203-D 10**	2CDS 253 001 R0101	**53090 3**				
	13	**S 203-D 13**	2CDS 253 001 R0131	**53091 0**				
	16	**S 203-D 16**	2CDS 253 001 R0161	**53092 7**				
	20 ①	**S 203-D 20**	2CDS 253 001 R0201	**53093 4**				
U_{Bmax} 440 V ~	25	**S 203-D 25**	2CDS 253 001 R0251	**53094 1**				
	32 ②	**S 203-D 32**	2CDS 253 001 R0321	**53095 8**				
	40 ③	**S 203-D 40**	2CDS 253 001 R0401	**53096 5**				
	50	**S 203-D 50**	2CDS 253 001 R0501	**55205 9**				
	63	**S 203-D 63**	2CDS 253 001 R0631	**55206 6**				
4	0.5	**S 204-D 0.5**	2CDS 254 001 R0981	**53112 2**			0.500	2
	1	**S 204-D 1**	2CDS 254 001 R0011	**53113 9**				
	1.6	**S 204-D 1.6**	2CDS 254 001 R0971	**53114 6**				
	2	**S 204-D 2**	2CDS 254 001 R0021	**53115 3**				
	3	**S 204-D 3**	2CDS 254 001 R0031	**53116 0**				
	4	**S 204-D 4**	2CDS 254 001 R0041	**53117 7**				
	6	**S 204-D 6**	2CDS 254 001 R0061	**53118 4**				
	8	**S 204-D 8**	2CDS 254 001 R0081	**53119 1**				
	10	**S 204-D 10**	2CDS 254 001 R0101	**53120 7**				
	13	**S 204-D 13**	2CDS 254 001 R0131	**53121 4**				
U_{Bmax} 440 V ~ 125 V ⎓ ④	16	**S 204-D 16**	2CDS 254 001 R0161	**53122 1**				
	20	**S 204-D 20**	2CDS 254 001 R0201	**53123 8**				
	25	**S 204-D 25**	2CDS 254 001 R0251	**53129 0**				
	32	**S 204-D 32**	2CDS 254 001 R0321	**53130 6**				
	40	**S 204-D 40**	2CDS 254 001 R0401	**53131 3**				
	50	**S 204-D 50**	2CDS 254 001 R0501	**55209 7**				
	63	**S 204-D 63**	2CDS 254 001 R0631	**55210 3**				

① suitable for flow-type heaters 12 kW
② suitable for flow-type heaters 18 kW
③ suitable for flow-type heaters 21, 24 and 27 kW
④ U_{Bmax} 125 V ⎓ with 2 poles connected in series

D

6000
3

SK 033 B 02



SK 029 B 02

Selection table

No. of poles	rated current I_n A	order details type code	order code	bbn 40 16779 EAN	price 1 piece €	price group	w'ght 1 pc. kg	pack. unit pc.
With disconnecting neutral NA								
1 + NA	0.5	**S 201-D 0.5 NA**	2CDS 251 103 R0981	**53197 9**			0.250	5
	1	**S 201-D 1 NA**	2CDS 251 103 R0011	**53199 3**				
	1.6	**S 201-D 1.6 NA**	2CDS 251 103 R0971	**53198 6**				
	2	**S 201-D 2 NA**	2CDS 251 103 R0021	**53200 6**				
	3	**S 201-D 3 NA**	2CDS 251 103 R0031	**53201 3**				
	4	**S 201-D 4 NA**	2CDS 251 103 R0041	**53202 0**				
	6	**S 201-D 6 NA**	2CDS 251 103 R0061	**53203 7**				
	8	**S 201-D 8 NA**	2CDS 251 103 R0081	**53204 4**				
	10	**S 201-D 10 NA**	2CDS 251 103 R0101	**53205 1**				
	13	**S 201-D 13 NA**	2CDS 251 103 R0131	**53206 8**				
	16	**S 201-D 16 NA**	2CDS 251 103 R0161	**53209 9**				
	20 ①	**S 201-D 20 NA**	2CDS 251 103 R0201	**53210 5**				
	25	**S 201-D 25 NA**	2CDS 251 103 R0251	**53211 2**				
	32 ②	**S 201-D 32 NA**	2CDS 251 103 R0321	**53212 9**				
	40 ③	**S 201-D 40 NA**	2CDS 251 103 R0401	**53213 6**				
U_{Bmax} 440 V ~ 60 V ⎓	50	**S 201-D 50 NA**	2CDS 251 103 R0501	**55201 1**			0.290	
	63	**S 201-D 63 NA**	2CDS 251 103 R0631	**55202 8**				
3 + NA	0.5	**S 203-D 0.5 NA**	2CDS 253 103 R0981	**53276 1**			0.500	2
	1	**S 203-D 1 NA**	2CDS 253 103 R0011	**53278 5**				
	1.6	**S 203-D 1.6 NA**	2CDS 253 103 R0971	**53277 8**				
	2	**S 203-D 2 NA**	2CDS 253 103 R0021	**53279 2**				
	3	**S 203-D 3 NA**	2CDS 253 103 R0031	**53280 8**				
	4	**S 203-D 4 NA**	2CDS 253 103 R0041	**53281 5**				
	6	**S 203-D 6 NA**	2CDS 253 103 R0061	**53282 2**				
	8	**S 203-D 8 NA**	2CDS 253 103 R0081	**53283 9**				
	10	**S 203-D 10 NA**	2CDS 253 103 R0101	**53284 6**				
	13	**S 203-D 13 NA**	2CDS 253 103 R0131	**53286 0**				
	16	**S 203-D 16 NA**	2CDS 253 103 R0161	**53287 7**				
	20 ①	**S 203-D 20 NA**	2CDS 253 103 R0201	**53288 4**				
	25	**S 203-D 25 NA**	2CDS 253 103 R0251	**53289 1**				
	32 ②	**S 203-D 32 NA**	2CDS 253 103 R0321	**53290 7**				
	40 ③	**S 203-D 40 NA**	2CDS 253 103 R0401	**53291 4**				
U_{Bmax} 440 V ~	50	**S 203-D 50 NA**	2CDS 253 103 R0501	**55207 3**			0.580	
	63	**S 203-D 63 NA**	2CDS 253 103 R0631	**55208 0**				

① suitable for flow-type heaters 12 kW
② suitable for flow-type heaters 18 kW
③ suitable for flow-type heaters 21, 24 and 27 kW

K

6000

SK 021 B 01

SK 022 B 01

SK 023 B 01

Our recommendation:
K-type characteristic, tried and proven for more than 70 years.

K (= power)-type characteristic according to DIN VDE 0660 Part 101 (power circuit-breaker)

1. No nuisance tripping in the case of functional peak currents up to $8xI_n$, depending on the series.
2. Through its highly sensitive thermostatic bimetal trip, the K-type characteristic offers protection to damageable elements in the overcurrent range. It also provides the best protection to cables and lines.

No. of poles	rated current I_n A	**order details** type code	order code	**bbn 40 16779 EAN**	**price** 1 piece **€**	price group	w'ght 1 pc. kg	pack. unit pc.
1	0.5	**S 201-K 0.5**	2CDS 251 001 R0157	**50719 6**			0.125	10/40
	1	**S 201-K 1**	2CDS 251 001 R0217	**50720 2**				
	1.6	**S 201-K 1.6**	2CDS 251 001 R0257	**50721 9**				
	2	**S 201-K 2**	2CDS 251 001 R0277	**50722 6**				
	3	**S 201-K 3**	2CDS 251 001 R0317	**50723 3**				
	4	**S 201-K 4**	2CDS 251 001 R0337	**50724 0**				
	6	**S 201-K 6**	2CDS 251 001 R0377	**50725 7**				
	8	**S 201-K 8**	2CDS 251 001 R0407	**50726 4**				
	10	**S 201-K 10**	2CDS 251 001 R0427	**49611 7**				
	13	**S 201-K 13**	2CDS 251 001 R0447	**50727 1**				
	16	**S 201-K 16**	2CDS 251 001 R0467	**49612 4**				
	20	**S 201-K 20**	2CDS 251 001 R0487	**50728 8**				
U_{Bmax} 440 V ~ 60 V ⎓	25	**S 201-K 25**	2CDS 251 001 R0517	**50729 5**				
	32	**S 201-K 32**	2CDS 251 001 R0537	**49613 1**				
	40	**S 201-K 40**	2CDS 251 001 R0557	**50730 1**				
	50	**S 201-K 50**	2CDS 251 001 R0577	**55112 0**				
	63	**S 201-K 63**	2CDS 251 001 R0607	**55113 7**				
2	0.5	**S 202-K 0.5**	2CDS 252 001 R0157	**50731 8**			0.250	5/20
	1	**S 202-K 1**	2CDS 252 001 R0217	**50732 5**				
	1.6	**S 202-K 1.6**	2CDS 252 001 R0257	**50733 2**				
	2	**S 202-K 2**	2CDS 252 001 R0277	**50734 9**				
	3	**S 202-K 3**	2CDS 252 001 R0317	**50735 6**				
	4	**S 202-K 4**	2CDS 252 001 R0337	**50736 3**				
	6	**S 202-K 6**	2CDS 252 001 R0377	**50737 0**				
	8	**S 202-K 8**	2CDS 252 001 R0407	**50738 7**				
	10	**S 202-K 10**	2CDS 252 001 R0427	**50739 4**				
	13	**S 202-K 13**	2CDS 252 001 R0447	**50740 0**				
	16	**S 202-K 16**	2CDS 252 001 R0467	**50741 7**				
	20	**S 202-K 20**	2CDS 252 001 R0487	**50742 4**				
U_{Bmax} 440 V ~ 125 V ⎓ ①	25	**S 202-K 25**	2CDS 252 001 R0517	**50743 1**				
	32	**S 202-K 32**	2CDS 252 001 R0537	**50744 8**				
	40	**S 202-K 40**	2CDS 252 001 R0557	**50745 5**				
	50	**S 202-K 50**	2CDS 252 001 R0577	**55116 8**				
	63	**S 202-K 63**	2CDS 252 001 R0607	**55117 5**				
3	0.5	**S 203-K 0.5**	2CDS 253 001 R0157	**50746 2**			0.375	3/12
	1	**S 203-K 1**	2CDS 253 001 R0217	**50747 9**				
	1.6	**S 203-K 1.6**	2CDS 253 001 R0257	**50748 6**				
	2	**S 203-K 2**	2CDS 253 001 R0277	**50749 3**				
	3	**S 203-K 3**	2CDS 253 001 R0317	**50750 9**				
	4	**S 203-K 4**	2CDS 253 001 R0337	**50751 6**				
	6	**S 203-K 6**	2CDS 253 001 R0377	**50752 3**				
	8	**S 203-K 8**	2CDS 253 001 R0407	**50753 0**				
	10	**S 203-K 10**	2CDS 253 001 R0427	**49614 8**				
	13	**S 203-K 13**	2CDS 253 001 R0447	**50754 7**				
	16	**S 203-K 16**	2CDS 253 001 R0467	**49615 5**				
	20	**S 203-K 20**	2CDS 253 001 R0487	**50755 4**				
U_{Bmax} 440 V ~	25	**S 203-K 25**	2CDS 253 001 R0517	**50756 1**				
	32	**S 203-K 32**	2CDS 253 001 R0537	**49616 2**				
	40	**S 203-K 40**	2CDS 253 001 R0557	**50757 8**				
	50	**S 203-K 50**	2CDS 253 001 R0577	**55118 2**				
	63	**S 203-K 63**	2CDS 253 001 R0607	**55119 9**				

① U_{Bmax} 125 V ⎓ with 2 poles connected in series

K

6000

SK 030 B 01

SK 033 B 02

SK 029 B 02

Selection table

No. of poles	rated current I_n A	order details type code	order code	bbn 40 16779 EAN	price 1 piece €	price group	w'ght 1 pc. kg	pack. unit pc.
4	0.5	**S 204-K 0.5**	2CDS 254 001 R0157	**52926 6**			0.500	2
	1	**S 204-K 1**	2CDS 254 001 R0217	**52927 3**				
	1.6	**S 204-K 1.6**	2CDS 254 001 R0257	**52928 0**				
	2	**S 204-K 2**	2CDS 254 001 R0277	**52929 7**				
	3	**S 204-K 3**	2CDS 254 001 R0317	**52930 3**				
	4	**S 204-K 4**	2CDS 254 001 R0337	**52931 0**				
	6	**S 204-K 6**	2CDS 254 001 R0377	**52932 7**				
	8	**S 204-K 8**	2CDS 254 001 R0407	**52933 4**				
	10	**S 204-K 10**	2CDS 254 001 R0427	**52934 1**				
	13	**S 204-K 13**	2CDS 254 001 R0447	**52935 8**				
	16	**S 204-K 16**	2CDS 254 001 R0467	**52936 5**				
	20	**S 204-K 20**	2CDS 254 001 R0487	**52937 2**				
U_{Bmax} 440 V ~ 60 V ⎓	25	**S 204-K 25**	2CDS 254 001 R0517	**52938 9**				
	32	**S 204-K 32**	2CDS 254 001 R0537	**52939 6**				
	40	**S 204-K 40**	2CDS 254 001 R0557	**52940 2**				
	50	**S 204-K 50**	2CDS 254 001 R0577	**55122 9**				
	63	**S 204-K 63**	2CDS 254 001 R0607	**55123 6**				

With disconnecting neutral NA

1 + NA	0.5	**S 201-K 0.5 NA**	2CDS 251 103 R0157	**53182 5**			0.25	5
	1	**S 201-K 1 NA**	2CDS 251 103 R0217	**53183 2**				
	1.6	**S 201-K 1.6 NA**	2CDS 251 103 R0257	**53184 9**				
	2	**S 201-K 2 NA**	2CDS 251 103 R0277	**53185 6**				
	3	**S 201-K 3 NA**	2CDS 251 103 R0317	**53186 3**				
	4	**S 201-K 4 NA**	2CDS 251 103 R0337	**53187 0**				
	6	**S 201-K 6 NA**	2CDS 251 103 R0377	**53188 7**				
	8	**S 201-K 8 NA**	2CDS 251 103 R0407	**53189 4**				
	10	**S 201-K 10 NA**	2CDS 251 103 R0427	**53190 0**				
	13	**S 201-K 13 NA**	2CDS 251 103 R0447	**53191 7**				
	16	**S 201-K 16 NA**	2CDS 251 103 R0467	**53192 4**				
	20	**S 201-K 20 NA**	2CDS 251 103 R0487	**53193 1**				
	25	**S 201-K 25 NA**	2CDS 251 103 R0517	**53194 8**				
	32	**S 201-K 32 NA**	2CDS 251 103 R0537	**53195 5**				
	40	**S 201-K 40 NA**	2CDS 251 103 R0557	**53196 2**				
U_{Bmax} 440 V ~ 60 V ⎓	50	**S 201-K 50 NA**	2CDS 251 103 R0577	**55114 4**				
	63	**S 201-K 63 NA**	2CDS 251 103 R0607	**55115 1**				
3 + NA	0.5	**S 203-K 0.5 NA**	2CDS 253 103 R0157	**53261 7**			0.50	2
	1	**S 203-K 1 NA**	2CDS 253 103 R0217	**53262 4**				
	1.6	**S 203-K 1.6 NA**	2CDS 253 103 R0257	**53263 1**				
	2	**S 203-K 2 NA**	2CDS 253 103 R0277	**53264 8**				
	3	**S 203-K 3 NA**	2CDS 253 103 R0317	**53265 5**				
	4	**S 203-K 4 NA**	2CDS 253 103 R0337	**53266 2**				
	6	**S 203-K 6 NA**	2CDS 253 103 R0377	**53267 9**				
	8	**S 203-K 8 NA**	2CDS 253 103 R0407	**53268 6**				
	10	**S 203-K 10 NA**	2CDS 253 103 R0427	**53269 3**				
	13	**S 203-K 13 NA**	2CDS 253 103 R0447	**53270 9**				
	16	**S 203-K 16 NA**	2CDS 253 103 R0467	**53271 6**				
	20	**S 203-K 20 NA**	2CDS 253 103 R0487	**53272 3**				
	25	**S 203-K 25 NA**	2CDS 253 103 R0517	**53273 0**				
	32	**S 203-K 32 NA**	2CDS 253 103 R0537	**53274 7**				
	40	**S 203-K 40 NA**	2CDS 253 103 R0557	**53275 4**				
U_{Bmax} 440 V ~	50	**S 203-K 50 NA**	2CDS 253 103 R0577	**55120 5**				
	63	**S 203-K 63 NA**	2CDS 253 103 R0607	**55121 2**				

Z

6000

SK 043 B 02

SK 022 B 01

SK 023 B 01

SK 030 B 01

Selection table

No. of poles	rated current I_n A	order details type code	order code	bbn 40 16779 EAN	price 1 piece €	price group	w'ght 1 pc. kg	pack. unit pc.
1	0.5	**S 201-Z 0.5**	2CDS 251 001 R0158	**53030 9**			0.125	10/40
	1	**S 201-Z 1**	2CDS 251 001 R0218	**53033 0**				
	1.6	**S 201-Z 1.6**	2CDS 251 001 R0258	**53034 7**				
	2	**S 201-Z 2**	2CDS 251 001 R0278	**53035 4**				
	3	**S 201-Z 3**	2CDS 251 001 R0318	**53036 1**				
	4	**S 201-Z 4**	2CDS 251 001 R0338	**53037 8**				
	6	**S 201-Z 6**	2CDS 251 001 R0378	**53040 8**				
	8	**S 201-Z 8**	2CDS 251 001 R0408	**53041 5**				
	10	**S 201-Z 10**	2CDS 251 001 R0428	**53042 2**				
	16	**S 201-Z 16**	2CDS 251 001 R0468	**53043 9**				
	20	**S 201-Z 20**	2CDS 251 001 R0488	**53044 6**				
	25	**S 201-Z 25**	2CDS 251 001 R0518	**53045 3**				
U_{Bmax} 440 V ~ 60 V ⎓	32	**S 201-Z 32**	2CDS 251 001 R0538	**53046 0**				
	40	**S 201-Z 40**	2CDS 251 001 R0558	**53047 7**				
	50	**S 201-Z 50**	2CDS 251 001 R0578	**55191 5**				
	63	**S 201-Z 63**	2CDS 251 001 R0608	**55192 2**				
2	0.5	**S 202-Z 0.5**	2CDS 252 001 R0158	**53068 2**			0.250	5/20
	1	**S 202-Z 1**	2CDS 252 001 R0218	**53067 5**				
	1.6	**S 202-Z 1.6**	2CDS 252 001 R0258	**53069 9**				
	2	**S 202-Z 2**	2CDS 252 001 R0278	**53070 5**				
	3	**S 202-Z 3**	2CDS 252 001 R0318	**53071 2**				
	4	**S 202-Z 4**	2CDS 252 001 R0338	**53072 9**				
	6	**S 202-Z 6**	2CDS 252 001 R0378	**53073 6**				
	8	**S 202-Z 8**	2CDS 252 001 R0408	**53074 3**				
	10	**S 202-Z 10**	2CDS 252 001 R0428	**53075 0**				
	16	**S 202-Z 16**	2CDS 252 001 R0468	**53076 7**				
	20	**S 202-Z 20**	2CDS 252 001 R0488	**53077 4**				
	25	**S 202-Z 25**	2CDS 252 001 R0518	**53078 1**				
U_{Bmax} 440 V ~ 125 V ⎓ ①	32	**S 202-Z 32**	2CDS 252 001 R0538	**53079 8**				
	40	**S 202-Z 40**	2CDS 252 001 R0558	**53080 4**				
	50	**S 202-Z 50**	2CDS 252 001 R0578	**55193 9**				
	63	**S 202-Z 63**	2CDS 252 001 R0608	**55194 6**				
3	0.5	**S 203-Z 0.5**	2CDS 253 001 R0158	**53097 2**			0.375	3/12
	1	**S 203-Z 1**	2CDS 253 001 R0218	**53098 9**				
	1.6	**S 203-Z 1.6**	2CDS 253 001 R0258	**53099 6**				
	2	**S 203-Z 2**	2CDS 253 001 R0278	**53100 9**				
	3	**S 203-Z 3**	2CDS 253 001 R0318	**53101 6**				
	4	**S 203-Z 4**	2CDS 253 001 R0338	**53102 3**				
	6	**S 203-Z 6**	2CDS 253 001 R0378	**53103 0**				
	8	**S 203-Z 8**	2CDS 253 001 R0408	**53104 7**				
	10	**S 203-Z 10**	2CDS 253 001 R0428	**53105 4**				
	16	**S 203-Z 16**	2CDS 253 001 R0468	**53106 1**				
	20	**S 203-Z 20**	2CDS 253 001 R0488	**53107 8**				
	25	**S 203-Z 25**	2CDS 253 001 R0518	**53108 5**				
U_{Bmax} 440 V ~	32	**S 203-Z 32**	2CDS 253 001 R0538	**53109 2**				
	40	**S 203-Z 40**	2CDS 253 001 R0558	**53110 8**				
	50	**S 203-Z 50**	2CDS 253 001 R0578	**55195 3**				
	63	**S 203-Z 63**	2CDS 253 001 R0608	**55196 0**				
4	0.5	**S 204-Z 0.5**	2CDS 254 001 R0158	**53024 8**			0.500	2
	1	**S 204-Z 1**	2CDS 254 001 R0218	**53132 0**				
	1.6	**S 204-Z 1.6**	2CDS 254 001 R0258	**53144 3**				
	2	**S 204-Z 2**	2CDS 254 001 R0278	**53143 6**				
	3	**S 204-Z 3**	2CDS 254 001 R0318	**53133 7**				
	4	**S 204-Z 4**	2CDS 254 001 R0338	**53134 4**				
	6	**S 204-Z 6**	2CDS 254 001 R0378	**53135 1**				
	8	**S 204-Z 8**	2CDS 254 001 R0408	**53136 8**				
	10	**S 204-Z 10**	2CDS 254 001 R0428	**53137 5**				
	16	**S 204-Z 16**	2CDS 254 001 R0468	**53138 2**				
	20	**S 204-Z 20**	2CDS 254 001 R0488	**53139 9**				
	25	**S 204-Z 25**	2CDS 254 001 R0518	**53140 5**				
U_{Bmax} 440 V ~ 125 V ⎓ ①	32	**S 204-Z 32**	2CDS 254 001 R0538	**53141 2**				
	40	**S 204-Z 40**	2CDS 254 001 R0558	**53142 9**				
	50	**S 204-Z 50**	2CDS 254 001 R0578	**55197 7**				
	63	**S 204-Z 63**	2CDS 254 001 R0608	**55198 4**				

① U_{Bmax} 125 V ⎓ with 2 poles connected in series

Z

6000

SK 033 B 02

SK 029 B 02

Selection table

No. of poles	rated current I_n A	order details type code	order code	bbn 40 16779 EAN	price 1 piece €	price group	w'ght 1 pc. kg	pack. unit pc.
With disconnecting neutral NA								
1 + NA	0.5	**S 201-Z 0.5 NA**	2CDS 251 103 R0158	**53214 3**			0.260	5
	1	**S 201-Z 1 NA**	2CDS 251 103 R0218	**53215 0**				
	1.6	**S 201-Z 1.6 NA**	2CDS 251 103 R0258	**53216 7**				
	2	**S 201-Z 2 NA**	2CDS 251 103 R0278	**53217 4**				
	3	**S 201-Z 3 NA**	2CDS 251 103 R0318	**53218 1**				
	4	**S 201-Z 4 NA**	2CDS 251 103 R0338	**53219 8**				
	6	**S 201-Z 6 NA**	2CDS 251 103 R0378	**53220 4**				
	8	**S 201-Z 8 NA**	2CDS 251 103 R0408	**53221 1**				
	10	**S 201-Z 10 NA**	2CDS 251 103 R0428	**53222 8**				
	16	**S 201-Z 16 NA**	2CDS 251 103 R0468	**53223 5**				
	20	**S 201-Z 20 NA**	2CDS 251 103 R0488	**53224 2**				
	25	**S 201-Z 25 NA**	2CDS 251 103 R0518	**53225 9**				
U_{Bmax} 440 V ~ 60 V ⎓	32	**S 201-Z 32 NA**	2CDS 251 103 R0538	**53226 6**				
	40	**S 201-Z 40 NA**	2CDS 251 103 R0558	**53227 3**				
	50	**S 201-Z 50 NA**	2CDS 251 103 R0578	**55212 7**			0.320	
	63	**S 201-Z 63 NA**	2CDS 251 103 R0608	**55213 4**				
3 + NA	0.5	**S 203-Z 0.5 NA**	2CDS 253 103 R0158	**53292 1**			0.520	2
	1	**S 203-Z 1 NA**	2CDS 253 103 R0218	**53293 8**				
	1.6	**S 203-Z 1.6 NA**	2CDS 253 103 R0258	**53294 5**				
	2	**S 203-Z 2 NA**	2CDS 253 103 R0278	**53295 2**				
	3	**S 203-Z 3 NA**	2CDS 253 103 R0318	**53297 6**				
	4	**S 203-Z 4 NA**	2CDS 253 103 R0338	**53298 3**				
	6	**S 203-Z 6 NA**	2CDS 253 103 R0378	**53299 0**				
	8	**S 203-Z 8 NA**	2CDS 253 103 R0408	**53300 3**				
	10	**S 203-Z 10 NA**	2CDS 253 103 R0428	**53301 0**				
	16	**S 203-Z 16 NA**	2CDS 253 103 R0468	**53302 7**				
	20	**S 203-Z 20 NA**	2CDS 253 103 R0488	**53305 8**				
	25	**S 203-Z 25 NA**	2CDS 253 103 R0518	**53306 5**				
U_{Bmax} 440 V ~	32	**S 203-Z 32 NA**	2CDS 253 103 R0538	**53307 2**				
	40	**S 203-Z 40 NA**	2CDS 253 103 R0558	**53308 9**				
	50	**S 203-Z 50 NA**	2CDS 253 103 R0578	**55214 1**			0.640	
	63	**S 203-Z 63 NA**	2CDS 253 103 R0608	**55216 5**				

K

6000

SK 027 B 01

SK 028 B 01

SK 029 B 01

SK 031 B 01

Selection table

No. of poles	rated current I_n A	order details type code	order code	bbn 40 16779 EAN	price 1 piece €	price group	w'ght 1 pc. kg	pack. unit pc.
1	0.5	**S 201-K 0.5 H□□**	2CD□251001R0157				0.125	10/40
	1	**S 201-K 1 H □□**	2CD□251001R0217					
	1.6	**S 201-K 1.6 H□□**	2CD□251001R0257					
	2	**S 201-K 2 H□□**	2CD□251001R0277					
	3	**S 201-K 3 H□□**	2CD□251001R0317					
	4	**S 201-K 4 H□□**	2CD□251001R0337					
	6	**S 201-K 6 H□□**	2CD□251001R0377				0.125	10/40
	8	**S 201-K 8 H□□**	2CD□251001R0407					
	10	**S 201-K 10 H□□**	2CD□251001R0427					
	13	**S 201-K 13 H□□**	2CD□251001R0447					
	16	**S 201-K 16 H□□**	2CD□251001R0467					
	20	**S 201-K 20 H□□**	2CD□251001R0487					
U_{Bmax} 440 V ~ 60 V ⎓	25	**S 201-K 25 H□□**	2CD□251001R0517					
	32	**S 201-K 32 H□□**	2CD□251001R0537					
	40	**S 201-K 40 H□□**	2CD□251001R0557					
	50	**S 201-K 50 H□□**	2CD□251001R0577					
	63	**S 201-K 63 H□□**	2CD□251001R0607					
2	0.5	**S 202-K 0.5 H□□**	2CD□252001R0157				0.250	5/20
	1	**S 202-K 1 H□□**	2CD□252001R0217					
	1.6	**S 202-K 1.6 H□□**	2CD□252001R0257					
	2	**S 202-K 2 H□□**	2CD□252001R0277					
	3	**S 202-K 3 H□□**	2CD□252001R0317					
	4	**S 202-K 4 H□□**	2CD□252001R0337					
	6	**S 202-K 6 H□□**	2CD□252001R0377					
	8	**S 202-K 8 H□□**	2CD□252001R0407					
	10	**S 202-K 10 H□□**	2CD□252001R0427					
	13	**S 202-K 13 H□□**	2CD□252001R0447					
	16	**S 202-K 16 H□□**	2CD□252001R0467					
	20	**S 202-K 20 H□□**	2CD□252001R0487					
U_{Bmax} 440 V ~ 125 V ⎓ ①	25	**S 202-K 25 H□□**	2CD□252001R0517					
	32	**S 202-K 32 H□□**	2CD□252001R0537					
	40	**S 202-K 40 H□□**	2CD□252001R0557					
	50	**S 202-K 50 H□□**	2CD□252001R0577					
	63	**S 202-K 63 H□□**	2CD□252001R0607					
3	0.5	**S 203-K 0.5 H□□**	2CD□253001R0157				0.375	3/12
	1	**S 203-K 1 H□□**	2CD□253001R0217					
	1.6	**S 203-K 1.6 H□□**	2CD□253001R0257					
	2	**S 203-K 2 H□□**	2CD□253001R0277					
	3	**S 203-K 3 H□□**	2CD□253001R0317					
	4	**S 203-K 4 H□□**	2CD□253001R0337					
	6	**S 203-K 6 H□□**	2CD□253001R0377					
	8	**S 203-K 8 H□□**	2CD□253001R0407					
	10	**S 203-K 10 H□□**	2CD□253001R0427					
	13	**S 203-K 13 H□□**	2CD□253001R0447					
	16	**S 203-K 16 H□□**	2CD□253001R0467					
	20	**S 203-K 20 H□□**	2CD□253001R0487					
U_{Bmax} 440 V ~	25	**S 203-K 25 H□□**	2CD□253001R0517					
	32	**S 203-K 32 H□□**	2CD□253001R0537					
	40	**S 203-K 40 H□□**	2CD□253001R0557					
	50	**S 203-K 50 H□□**	2CD□253001R0577					
	63	**S 203-K 63 H□□**	2CD□253001R0607					
4	0.5	**S 204-K 0.5 H□□**	2CD□254001R0157				0.500	2
	1	**S 204-K 1 H□□**	2CD□254001R0217					
	1.6	**S 204-K 1.6 H□□**	2CD□254001R0257					
	2	**S 204-K 2 H□□**	2CD□254001R0277					
	3	**S 204-K 3 H□□**	2CD□254001R0317					
	4	**S 204-K 4 H□□**	2CD□254001R0337					
	6	**S 204-K 6 H□□**	2CD□254001R0377					
	8	**S 204-K 8 H□□**	2CD□254001R0407					
	10	**S 204-K 10 H□□**	2CD□254001R0427					
	13	**S 204-K 13 H□□**	2CD□254001R0447					
	16	**S 204-K 16 H□□**	2CD□254001R0467					
	20	**S 204-K 20 H□□**	2CD□254001R0487					
U_{Bmax} 440 V ~ 125 V ⎓ ①	25	**S 204-K 25 H□□**	2CD□254001R0517					
	32	**S 204-K 32 H□□**	2CD□254001R0537					
	40	**S 204-K 40 H□□**	2CD□254001R0557					
	50	**S 204-K 50 H□□**	2CD□254001R0577					
	63	**S 204-K 63 H□□**	2CD□254001R0607					

Order code

MCB with NC contact 0 1 — O

MCB with NO contact 1 0 — V

① U_{Bmax} 125 V ⎓ with 2 contact decks connected in series

K

6000

SK 031 B 02

SK 028 B 02

Selection table

No. of poles	rated current I_n A	order details type code	order code	bbn 40 16779 EAN	price 1 piece €	price group	w'ght 1 pc. kg	pack. unit pc.
Model with disconnecting neutral NA								
1 + NA	0.5	**S 201-K 0.5 NA H□□**	2CD□ 251 103 R0157				0.260	10/40
	1	**S 201-K 1 NA H□□**	2CD□ 251 103 R0217					
	1.6	**S 201-K 1.6 NA H□□**	2CD□ 251 103 R0257					
	2	**S 201-K 2 NA H□□**	2CD□ 251 103 R0277					
	3	**S 201-K 3 NA H□□**	2CD□ 251 103 R0317					
	4	**S 201-K 4 NA H□□**	2CD□ 251 103 R0337					
	6	**S 201-K 6 NA H□□**	2CD□ 251 103 R0377					
	8	**S 201-K 8 NA H□□**	2CD□ 251 103 R0407					
	10	**S 201-K 10 NA H□□**	2CD□ 251 103 R0427					
	13	**S 201-K 13 NA H□□**	2CD□ 251 103 R0447					
	16	**S 201-K 16 NA H□□**	2CD□ 251 103 R0467					
	20	**S 201-K 20 NA H□□**	2CD□ 251 103 R0487					
U_{Bmax} 440 V ~ 60 V ⎓	25	**S 201-K 25 NA H□□**	2CD□ 251 103 R0517					
	32	**S 201-K 32 NA H□□**	2CD□ 251 103 R0537					
	40	**S 201-K 40 NA H□□**	2CD□ 251 103 R0557					
	50	**S 201-K 50 NA H□□**	2CD□ 251 103 R0577					
	63	**S 201-K 63 NA H□□**	2CD□ 251 103 R0607					
3 + NA	0.5	**S 203-K 0.5 NA H□□**	2CD□ 253 103 R0157				0.520	3/12
	1	**S 203-K 1 NA H□□**	2CD□ 253 103 R0217					
	1.6	**S 203-K 1.6 NA H□□**	2CD□ 253 103 R0257					
	2	**S 203-K 2 NA H□□**	2CD□ 253 103 R0277					
	3	**S 203-K 3 NA H□□**	2CD□ 253 103 R0317					
	4	**S 203-K 4 NA H□□**	2CD□ 253 103 R0337					
	6	**S 203-K 6 NA H□□**	2CD□ 253 103 R0377					
	8	**S 203-K 8 NA H□□**	2CD□ 253 103 R0407					
	10	**S 203-K 10 NA H□□**	2CD□ 253 103 R0427					
	13	**S 203-K 13 NA H□□**	2CD□ 253 103 R0447					
	16	**S 203-K 16 NA H□□**	2CD□ 253 103 R0467					
	20	**S 203-K 20 NA H□□**	2CD□ 253 103 R0487					
U_{Bmax} 440 V ~	25	**S 203-K 25 NA H□□**	2CD□ 253 103 R0517					
	32	**S 203-K 32 NA H□□**	2CD□ 253 103 R0537					
	40	**S 203-K 40 NA H□□**	2CD□ 253 103 R0557					
	50	**S 203-K 50 NA H□□**	2CD□ 253 103 R0577					
	63	**S 203-K 63 NA H□□**	2CD□ 253 103 R0607					

Order code

MCB with NC contact 0 1 O
MCB with NO contact 1 0 V

Attention:
Other characteristics with integrated auxiliary contact on request.

B

10000
3

SK 032 B 02

Selection table

No. of poles	rated current I_n A	order details type code	order code	bbn 40 16779 EAN	price 1 piece €	price group	w'ght 1 pc. kg	pack. unit pc.
1	6	**S 201 M-B 6**	2CDS 271 001 R0065	**54942 4**			0.125	10/40
	10	**S 201 M-B 10**	2CDS 271 001 R0105	**54943 1**				
	13	**S 201 M-B 13**	2CDS 271 001 R0135	**54944 8**				
	16	**S 201 M-B 16**	2CDS 271 001 R0165	**54945 5**				
	20 ①	**S 201 M-B 20**	2CDS 271 001 R0205	**54946 2**				
	25	**S 201 M-B 25**	2CDS 271 001 R0255	**54947 9**				
U_{Bmax} 440 V ~ 60 V ⎓	32 ②	**S 201 M-B 32**	2CDS 271 001 R0325	**54948 6**				
	40 ③	**S 201 M-B 40**	2CDS 271 001 R0405	**54949 3**				
	50	**S 201 M-B 50**	2CDS 271 001 R0505	**54381 1**				
	63	**S 201 M-B 63**	2CDS 271 001 R0635	**54382 8**				
2	6	**S 202 M-B 6**	2CDS 272 001 R0065	**54958 5**			0.250	5/20
	10	**S 202 M-B 10**	2CDS 272 001 R0105	**54959 2**				
	13	**S 202 M-B 13**	2CDS 272 001 R0135	**54960 8**				
	16	**S 202 M-B 16**	2CDS 272 001 R0165	**54961 5**				
	20	**S 202 M-B 20**	2CDS 272 001 R0205	**54962 2**				
	25	**S 202 M-B 25**	2CDS 272 001 R0255	**54963 9**				
U_{Bmax} 440 V ~ 125 V ⎓ ④	32	**S 202 M-B 32**	2CDS 272 001 R0325	**54964 6**				
	40	**S 202 M-B 40**	2CDS 272 001 R0405	**54965 3**				
	50	**S 202 M-B 50**	2CDS 272 001 R0505	**54385 9**				
	63	**S 202 M-B 63**	2CDS 272 001 R0635	**54386 6**				
3	6	**S 203 M-B 6**	2CDS 273 001 R0065	**54966 0**			0.375	3/12
	10	**S 203 M-B 10**	2CDS 273 001 R0105	**54967 7**				
	13	**S 203 M-B 13**	2CDS 273 001 R0135	**54968 4**				
	16	**S 203 M-B 16**	2CDS 273 001 R0165	**54969 1**				
	20 ①	**S 203 M-B 20**	2CDS 273 001 R0205	**54970 7**				
	25	**S 203 M-B 25**	2CDS 273 001 R0255	**54971 4**				
U_{Bmax} 440 V ~	32 ②	**S 203 M-B 32**	2CDS 273 001 R0325	**54972 1**				
	40 ③	**S 203 M-B 40**	2CDS 273 001 R0405	**54973 8**				
	50	**S 203 M-B 50**	2CDS 273 001 R0505	**54387 3**				
	63	**S 203 M-B 63**	2CDS 273 001 R0635	**54388 0**				
4	6	**S 204 M-B 6**	2CDS 274 001 R0065	**54982 0**			0.500	2
	10	**S 204 M-B 10**	2CDS 274 001 R0105	**54983 7**				
	13	**S 204 M-B 13**	2CDS 274 001 R0135	**54984 4**				
	16	**S 204 M-B 16**	2CDS 274 001 R0165	**54985 1**				
	20	**S 204 M-B 20**	2CDS 274 001 R0205	**54986 8**				
	25	**S 204 M-B 25**	2CDS 274 001 R0255	**54987 5**				
U_{Bmax} 440 V ~ 125 V ⎓ ④	32	**S 204 M-B 32**	2CDS 274 001 R0325	**54988 2**				
	40	**S 204 M-B 40**	2CDS 274 001 R0405	**54989 9**				
	50	**S 204 M-B 50**	2CDS 274 001 R0505	**54391 0**				
	63	**S 204 M-B 63**	2CDS 274 001 R0635	**54392 7**				

① suitable for flow-type heaters 12 kW
② suitable for flow-type heaters 18 kW
③ suitable for flow-type heaters 21, 24 and 27 kW
④ U_{Bmax} 125 V ⎓ with 2 poles connected in series

S 200 M-B

B

10000
3

SK 032 B 02

Selection table

No. of poles	rated current I_n A	order details type code	order code	bbn 40 16779 EAN	price 1 piece €	price group	w'ght 1 pc. kg	pack. unit pc.
With disconnecting neutral NA								
1 + NA U_{Bmax} 440 V ~ 60 V ⎓	6	**S 201 M-B 6 NA**	2CDS 271 103 R0065	**54950 9**			0.250	50/40
	10	**S 201 M-B 10 NA**	2CDS 271 103 R0105	**54951 6**				
	13	**S 201 M-B 13 NA**	2CDS 271 103 R0135	**54952 3**				
	16	**S 201 M-B 16 NA**	2CDS 271 103 R0165	**54953 0**				
	20 ①	**S 201 M-B 20 NA**	2CDS 271 103 R0205	**54954 7**				
	25	**S 201 M-B 25 NA**	2CDS 271 103 R0255	**54955 4**				
	32 ②	**S 201 M-B 32 NA**	2CDS 271 103 R0325	**54956 1**				
	40 ③	**S 201 M-B 40 NA**	2CDS 271 103 R0405	**54957 8**				
	50	**S 201 M-B 50 NA**	2CDS 271 103 R0505	**54383 5**				
	63	**S 201 M-B 63 NA**	2CDS 271 103 R0635	**54384 2**				
3 + NA U_{Bmax} 440 V ~	6	**S 203 M-B 6 NA**	2CDS 273 103 R0065	**54974 5**			0.500	2/20
	10	**S 203 M-B 10 NA**	2CDS 273 103 R0105	**54975 2**				
	13	**S 203 M-B 13 NA**	2CDS 273 103 R0135	**54976 9**				
	16	**S 203 M-B 16 NA**	2CDS 273 103 R0165	**54977 6**				
	20 ①	**S 203 M-B 20 NA**	2CDS 273 103 R0205	**54978 3**				
	25	**S 203 M-B 25 NA**	2CDS 273 103 R0255	**54979 0**				
	32 ②	**S 203 M-B 32 NA**	2CDS 273 103 R0325	**54980 6**				
	40 ③	**S 203 M-B 40 NA**	2CDS 273 103 R0405	**54981 3**				
	50	**S 203 M-B 50 NA**	2CDS 273 103 R0505	**54389 7**				
	63	**S 203 M-B 63 NA**	2CDS 273 103 R0635	**54390 3**			0.580	

① suitable for flow-type heaters 12 kW
② suitable for flow-type heaters 18 kW
③ suitable for flow-type heaters 21, 24 and 27 kW

C

10000
3

SK 044 B 02

SK 045 B 02

SK 046 B 02

Selection table

No. of poles	rated current I_n A	order details type code	order code	bbn 40 16779 EAN	price 1 piece €	price group	w'ght 1 pc. kg	pack. unit pc.
1	0.5	**S 201 M-C 0.5**	2CDS 271 001 R0984	**54990 5**			0.125	10/40
	1	**S 201 M-C 1**	2CDS 271 001 R0014	**54992 9**				
	1.6	**S 201 M-C 1.6**	2CDS 271 001 R0974	**54991 2**				
	2	**S 201 M-C 2**	2CDS 271 001 R0024	**54993 6**				
	3	**S 201 M-C 3**	2CDS 271 001 R0034	**54994 3**				
	4	**S 201 M-C 4**	2CDS 271 001 R0044	**54995 0**				
	6	**S 201 M-C 6**	2CDS 271 001 R0064	**54996 7**				
	8	**S 201 M-C 8**	2CDS 271 001 R0084	**54997 4**				
	10	**S 201 M-C 10**	2CDS 271 001 R0104	**54998 1**				
	13	**S 201 M-C 13**	2CDS 271 001 R0134	**54999 8**				
	16	**S 201 M-C 16**	2CDS 271 001 R0164	**55000 0**				
	20 ①	**S 201 M-C 20**	2CDS 271 001 R0204	**55001 7**				
U_{Bmax} 440 V ~ 60 V ⎓	25	**S 201 M-C 25**	2CDS 271 001 R0254	**55002 4**				
	32 ②	**S 201 M-C 32**	2CDS 271 001 R0324	**55003 1**				
	40 ③	**S 201 M-C 40**	2CDS 271 001 R0404	**55004 8**				
	50	**S 201 M-C 50**	2CDS 271 001 R0504	**54393 4**				
	63	**S 201 M-C 63**	2CDS 271 001 R0634	**54394 1**				
2	0.5	**S 202 M-C 0.5**	2CDS 272 001 R0984	**55020 8**			0.250	5/20
	1	**S 202 M-C 1**	2CDS 272 001 R0014	**55022 2**				
	1.6	**S 202 M-C 1.6**	2CDS 272 001 R0974	**55021 5**				
	2	**S 202 M-C 2**	2CDS 272 001 R0024	**55023 9**				
	3	**S 202 M-C 3**	2CDS 272 001 R0034	**55024 6**				
	4	**S 202 M-C 4**	2CDS 272 001 R0044	**55025 3**				
	6	**S 202 M-C 6**	2CDS 272 001 R0064	**55026 0**				
	8	**S 202 M-C 8**	2CDS 272 001 R0084	**55027 7**				
	10	**S 202 M-C 10**	2CDS 272 001 R0104	**55028 4**				
	13	**S 202 M-C 13**	2CDS 272 001 R0134	**55029 1**				
	16	**S 202 M-C 16**	2CDS 272 001 R0164	**55030 7**				
	20	**S 202 M-C 20**	2CDS 272 001 R0204	**55031 4**				
U_{Bmax} 440 V ~ 125 V ⎓ ④	25	**S 202 M-C 25**	2CDS 272 001 R0254	**55032 1**				
	32	**S 202 M-C 32**	2CDS 272 001 R0324	**55033 8**				
	40	**S 202 M-C 40**	2CDS 272 001 R0404	**55034 5**				
	50	**S 202 M-C 50**	2CDS 272 001 R0504	**54397 2**				
	63	**S 202 M-C 63**	2CDS 272 001 R0634	**54398 9**				
3	0.5	**S 203 M-C 0.5**	2CDS 273 001 R0984	**55035 2**			0.375	3/12
	1	**S 203 M-C 1**	2CDS 273 001 R0014	**55037 6**				
	1.6	**S 203 M-C 1.6**	2CDS 273 001 R0974	**55036 9**				
	2	**S 203 M-C 2**	2CDS 273 001 R0024	**55038 3**				
	3	**S 203 M-C 3**	2CDS 273 001 R0034	**55039 0**				
	4	**S 203 M-C 4**	2CDS 273 001 R0044	**55040 6**				
	6	**S 203 M-C 6**	2CDS 273 001 R0064	**55041 3**				
	8	**S 203 M-C 8**	2CDS 273 001 R0084	**55042 0**				
	10	**S 203 M-C 10**	2CDS 273 001 R0104	**55043 7**				
	13	**S 203 M-C 13**	2CDS 273 001 R0134	**55044 4**				
	16	**S 203 M-C 16**	2CDS 273 001 R0164	**55045 1**				
	20 ①	**S 203 M-C 20**	2CDS 273 001 R0204	**55046 8**				
U_{Bmax} 440 V ~	25	**S 203 M-C 25**	2CDS 273 001 R0254	**55047 5**				
	32 ②	**S 203 M-C 32**	2CDS 273 001 R0324	**55048 2**				
	40 ③	**S 203 M-C 40**	2CDS 273 001 R0404	**55049 9**				
	50	**S 203 M-C 50**	2CDS 273 001 R0504	**54399 6**				
	63	**S 203 M-C 63**	2CDS 273 001 R0634	**54400 9**				
4	0.5	**S 204 M-C 0.5**	2CDS 274 001 R0984	**55065 9**			0.500	2
	1	**S 204 M-C 1**	2CDS 274 001 R0014	**55067 3**				
	1.6	**S 204 M-C 1.6**	2CDS 274 001 R0974	**55066 6**				
	2	**S 204 M-C 2**	2CDS 274 001 R0024	**55068 0**				
	3	**S 204 M-C 3**	2CDS 274 001 R0034	**55069 7**				
	4	**S 204 M-C 4**	2CDS 274 001 R0044	**55070 3**				
	6	**S 204 M-C 6**	2CDS 274 001 R0064	**55071 0**				
	8	**S 204 M-C 8**	2CDS 274 001 R0084	**55072 7**				
	10	**S 204 M-C 10**	2CDS 274 001 R0104	**55073 4**				
	13	**S 204 M-C 13**	2CDS 274 001 R0134	**55074 1**				
	16	**S 204 M-C 16**	2CDS 274 001 R0164	**55075 8**				
	20	**S 204 M-C 20**	2CDS 274 001 R0204	**55076 5**				
U_{Bmax} 440 V ~ 125 V ⎓ ④	25	**S 204 M-C 25**	2CDS 274 001 R0254	**55077 2**				
	32	**S 204 M-C 32**	2CDS 274 001 R0324	**55078 9**				
	40	**S 204 M-C 40**	2CDS 274 001 R0404	**55079 6**				
	50	**S 204 M-C 50**	2CDS 274 001 R0504	**54403 0**				
	63	**S 204 M-C 63**	2CDS 274 001 R0634	**54404 7**				

① suitable for flow-type heaters 12 kW
② suitable for flow-type heaters 18 kW
③ suitable for flow-type heaters 21, 24 and 27 kW
④ U_{Bmax} 125 V ⎓ with 2 poles connected in series

C

10000
3

SK 032 B 02

Attention:
S 200 M, B and C
with integrated auxiliary contact
on request.

Selection table

No. of poles	rated current I_n A	order details type code	order code	bbn 40 16779 EAN	price 1 piece €	price group	w'ght 1 pc. kg	pack. unit pc.
With disconnecting neutral NA								
1 + NA	0.5	**S 201 M-C 0.5 NA**	2CDS 271 103 R0984	**55005 5**			0.250	5
	1	**S 201 M-C 1 NA**	2CDS 271 103 R0014	**55007 9**				
	1.6	**S 201 M-C 1.6 NA**	2CDS 271 103 R0974	**55006 2**				
	2	**S 201 M-C 2 NA**	2CDS 271 103 R0024	**55008 6**				
	3	**S 201 M-C 3 NA**	2CDS 271 103 R0034	**55009 3**				
	4	**S 201 M-C 4 NA**	2CDS 271 103 R0044	**55010 9**				
	6	**S 201 M-C 6 NA**	2CDS 271 103 R0064	**55011 6**				
	8	**S 201 M-C 8 NA**	2CDS 271 103 R0084	**55012 3**				
	10	**S 201 M-C 10 NA**	2CDS 271 103 R0104	**55013 0**				
	13	**S 201 M-C 13 NA**	2CDS 271 103 R0134	**55014 7**				
	16	**S 201 M-C 16 NA**	2CDS 271 103 R0164	**55015 4**				
	20 ①	**S 201 M-C 20 NA**	2CDS 271 103 R0204	**55016 1**				
U_{Bmax} 440 V ~ 60 V ⎓	25	**S 201 M-C 25 NA**	2CDS 271 103 R0254	**55017 8**				
	32 ②	**S 201 M-C 32 NA**	2CDS 271 103 R0324	**55018 5**				
	40 ③	**S 201 M-C 40 NA**	2CDS 271 103 R0404	**55019 2**				
	50	**S 201 M-C 50 NA**	2CDS 271 103 R0504	**54395 8**			0.290	
	63	**S 201 M-C 63 NA**	2CDS 271 103 R0634	**54396 5**				
3 + NA	0.5	**S 203 M-C 0.5 NA**	2CDS 273 103 R0984	**55051 2**			0.500	2
	1	**S 203 M-C 1 NA**	2CDS 273 103 R0014	**55052 9**				
	1.6	**S 203 M-C 1.6 NA**	2CDS 273 103 R0974	**55050 5**				
	2	**S 203 M-C 2 NA**	2CDS 273 103 R0024	**55053 6**				
	3	**S 203 M-C 3 NA**	2CDS 273 103 R0034	**55054 3**				
	4	**S 203 M-C 4 NA**	2CDS 273 103 R0044	**55055 0**				
	6	**S 203 M-C 6 NA**	2CDS 273 103 R0064	**55056 7**				
	8	**S 203 M-C 8 NA**	2CDS 273 103 R0084	**55057 4**				
	10	**S 203 M-C 10 NA**	2CDS 273 103 R0104	**55058 1**				
	13	**S 203 M-C 13 NA**	2CDS 273 103 R0134	**55059 8**				
	16	**S 203 M-C 16 NA**	2CDS 273 103 R0164	**55060 4**				
	20 ①	**S 203 M-C 20 NA**	2CDS 273 103 R0204	**55061 1**				
U_{Bmax} 440 V ~	25	**S 203 M-C 25 NA**	2CDS 273 103 R0254	**55062 8**				
	32 ②	**S 203 M-C 32 NA**	2CDS 273 103 R0324	**55063 5**				
	40 ③	**S 203 M-C 40 NA**	2CDS 273 103 R0404	**55064 2**				
	50	**S 203 M-C 50 NA**	2CDS 273 103 R0504	**54401 6**			0.580	
	63	**S 203 M-C 63 NA**	2CDS 273 103 R0634	**54402 3**				

① suitable for flow-type heaters 12 kW
② suitable for flow-type heaters 18 kW
③ suitable for flow-type heaters 21, 24 and 27 kW

SK 011 B 02

SC-S/H6R

SK 209 B 02

S 2C-A

Description	order details type code	order code	bbn 40 16779 EAN	price 1 piece €	price group	w'ght 1 pc. kg	pack. unit pc.
Signalcontact/Auxiliary switch (universal) Retrofittable to the right side of MCB's, RCB's and Shunt trip's							
1 change over	**S 2C-S/H6R**	2CDS 200 922 R0001	**56381 9**			0.04	1
Auxiliary contact Retrofittable to the right side of MCB's							
1 change over	**S 2C-H6R**	2CDS 200 912 R0001	**56382 6**			0.04	1
Shunt trip							
AC/DC 12 ... 60 V	**S 2C-A1**	2CDS 200 909 R0001	**57099 2**			0.15	1
AC 110 ... 415 V und DC 110 ... 250 V	**S 2C-A2**	2CDS 200 909 R0002	**57100 5**				
Undervoltage release (in preparation)							
DC 12 V	**S 2C-UA 12**	2CDS 200 911 R0001	**57101 2**			0.09	1
AC/DC 24 V	**S 2C-UA 24**	2CDS 200 911 R0002	**57102 9**				
AC/DC 48 V	**S 2C-UA 48**	2CDS 200 911 R0003	**57103 6**				
AC/DC 110 V	**S 2C-UA 110**	2CDS 200 911 R0004	**57104 3**				
AC/DC 220 V	**S 2C-UA 220**	2CDS 200 911 R0005	**57105 0**				
AC 380 V	**S 2C-UA 380**	2CDS 200 911 R0006	**57106 7**				

SK 047 B 02

F 202

SK 048 B 02

F 204

SK 0026 B 99

F 204 S

SK 011 B 02

S2C-S/H6R

Selection table residual-current-operated circuit breaker

nominal fault current $I_{\Delta n}$ mA	nominal current I_n A	**order details** **type code**	order code	**bbn 40 16779 EAN**	**price** 1 piece €	price group	w'ght 1 pc. kg	pack. unit pc.
Residual-current-operated circuit breaker F 202, 2-pole, type A (sensitive to AC and pulsating DC current)								
10	16	**F 202 A-16/0.01**	2CSF 202 101 R0160	**47570 9**			0.345	1
30	25	**F 202 A-25/0.03**	2CSF 202 101 R1250	**47580 8**			0.345	1
	40	**F 202 A-40/0.03**	2CSF 202 101 R1400	**47600 3**			0.345	1
	63	**F 202 A-63/0.03**	2CSF 202 101 R1630	**55323 0**			0.345	1
300	25	**F 202 A-25/0.3**	2CSF 202 101 R3250	**47590 7**			0.345	1
	40	**F 202 A-40/0.3**	2CSF 202 101 R3400	**47610 2**			0.345	1
	63	**F 202 A-63/0.3**	2CSF 202 101 R3630	**55234 9**			0.345	1
500	25	**F 202 A-25/0.5**	2CSF 202 101 R4250	**55325 4**			0.345	1
	40	**F 202 A-40/0.5**	2CSF 202 101 R4400	**55324 7**			0.345	1
	63	**F 202 A-63/0.5**	2CSF 202 101 R4630	**55235 6**			0.345	1
Residual-current-operated circuit-breaker F 204, 4-pole, type A (sensitive to AC and pulsating DC current)								
30	25	**F 204 A-25/0.03**	2CSF 204 101 R1250	**47620 1**			0.405	1
	40	**F 204 A-40/0.03**	2CSF 204 101 R1400	**47650 8**			0.430	1
	63	**F 204 A-63/0.03**	2CSF 204 101 R1630	**53996 8**			0.430	1
300	25	**F 204 A-25/0.3**	2CSF 204 101 R3250	**47630 0**			0.415	1
	40	**F 204 A-40/0.3**	2CSF 204 101 R3400	**47660 7**			0.430	1
	63	**F 204 A-63/0.3**	2CSF 204 101 R3630	**53999 9**			0.430	1
500	25	**F 204 A-25/0.5**	2CSF 204 101 R4250	**47640 9**			0.415	1
	40	**F 204 A-40/0.5**	2CSF 204 101 R4400	**47670 6**			0.430	1
	63	**F 204 A-63/0.5**	2CSF 204 101 R4630	**54000 1**			0.430	1
Residual-current-operated circuit-breaker F 204 S, 4-pole selective, type A (sensitive to AC and pulsating DC current)								
300	40	**F 204 S-40/0.3**	2CSF 204 201 R3400	**47680 5**			0.405	1
	63	**F 204 S-63/0.3**	2CSF 204 201 R3630	**54016 2**			0.405	1
Residual-current-operated circuit-breaker F 202 AC, 2-pole, type AC (sensitive to AC)								
30	25	**F 202 AC-25/0.03**	2CSF 202 001 R1250	**53499 4**			0.345	1
	40	**F 202 AC-40/0.03**	2CSF 202 001 R1400	**53503 8**			0.345	1
	63	**F 202 AC-63/0.03**	2CSF 202 001 R1630	**55269 1**			0.345	1
100	25	**F 202 AC-25/0.1**	2CSF 202 001 R2250	**53501 4**			0.345	1
	40	**F 202 AC-40/0.1**	2CSF 202 001 R2400	**53504 5**			0.345	1
	63	**F 202 AC-63/0.1**	2CSF 202 001 R2630	**55270 7**			0.345	1
300	25	**F 202 AC-25/0.3**	2CSF 202 001 R3250	**53502 1**			0.345	1
	40	**F 202 AC-40/0.3**	2CSF 202 001 R3400	**53505 2**			0.345	1
	63	**F 202 AC-63/0.3**	2CSF 202 001 R3630	**55271 4**			0.345	1
Residual-current-operated circuit-breaker F 204 AC, 4-pole, type AC (sensitive to AC)								
30	25	**F 204 AC-25/0.03**	2CSF 204 001 R1250	**53506 9**			0.405	1
	40	**F 204 AC-40/0.03**	2CSF 204 001 R1400	**53509 0**			0.430	1
	63	**F 204 AC-63/0.03**	2CSF 204 001 R1630	**53993 7**			0.430	1
100	25	**F 204 AC-25/0.1**	2CSF 204 001 R2250	**53507 6**			0.415	1
	40	**F 204 AC-40/0.1**	2CSF 204 001 R2400	**53510 6**			0.430	1
	63	**F 204 AC-63/0.1**	2CSF 204 001 R2630	**53994 4**			0.430	1
300	25	**F 204 AC-25/0.3**	2CSF 204 001 R3250	**53508 3**			0.415	1
	40	**F 204 AC-40/0.3**	2CSF 204 001 R3400	**53511 3**			0.430	1
	63	**F 204 AC-63/0.3**	2CSF 204 001 R3630	**55995 1**			0.430	1
Residual-current-operated circuit-breaker F 204 R, 4-pole short time delayed, type A								
30	25	**F 204 AP-R-25/0.03**	2CSF 204 401 R1250	**57826 4**			0.405	1
	40	**F 204 AP-R-40/0.03**	2CSF 204 401 R1400	**57827 1**			0.430	1
	63	**F 204 AP-R-63/0.03**	2CSF 204 401 R1630	**57828 8**			0.430	1

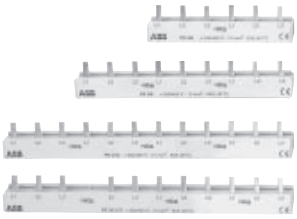
Signalcontact/Auxiliary switch (universal)
Retrofittable to the right side of MCB's and RCD's

1 change over	**S 2C-S/H6R**	2CDS 200 922 R0001	**56381 9**			0.04	1

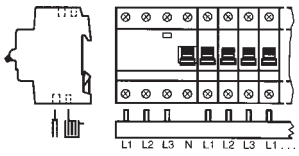
FS 201-B 16

nominal fault current $I_{\Delta n}$ mA	nominal current I_n A	**order details** **type code**	order code	**bbn 40 16779 EAN**	**price** 1 piece **€**	price group	w'ght 1 pc. kg	pack. unit pc.
Residual-current-operated circuit breaker with overload protection and people protector device								
10 People protector	10	**FS 201-B 10/0.01**	2CSR255101R0105	**56473 1**			0.25	1
	13	**FS 201-B 13/0.01**	2CSR255101R0135	**56474 8**			0.25	1
	16	**FS 201-B 16/0.01**	2CSR255101R0165	**56475 5**			0.25	1
	16	**FS 201-K 16/0.01**	2CSR255101R0167	**56476 2**			0.25	1
30	6	**FS 201-B 6/0.03**	2CSR255101R1065	**51699 0**			0.25	1
	10	**FS 201-B 10/0.03**	2CSR255101R1105	**51703 4**			0.25	1
	13	**FS 201-B 13/0.03**	2CSR255101R1135	**51704 1**			0.25	1
	16	**FS 201-B 16/0.03**	2CSR255101R1165	**51707 2**			0.25	1
	20	**FS 201-B 20/0.03**	2CSR255101R1205	**51708 9**			0.25	1
	25	**FS 201-B 25/0.03**	2CSR255101R1255	**51711 9**			0.25	1
	32	**FS 201-B 32/0.03**	2CSR255101R1325	**51712 6**			0.25	1
	40	**FS 201-B 40/0.03**	2CSR255101R1405	**51713 3**			0.25	1
30	1	**FS 201-K 1/0.03**	2CSR255101R1017	**56957 6**			0.25	1
	2	**FS 201-K 2/0.03**	2CSR255101R1027	**56958 3**			0.25	1
	4	**FS 201-K 4/0.03**	2CSR255101R1047	**56999 6**			0.25	1
	6	**FS 201-K 6/0.03**	2CSR255101R1067	**51714 0**			0.25	1
	10	**FS 201-K 10/0.03**	2CSR255101R1107	**51715 7**			0.25	1
	13	**FS 201-K 13/0.03**	2CSR255101R1137	**56959 0**			0.25	1
	16	**FS 201-K 16/0.03**	2CSR255101R1167	**51716 4**			0.25	1
	20	**FS 201-K 20/0.03**	2CSR255101R1207	**51717 1**			0.25	1
	25	**FS 201-K 25/0.03**	2CSR255101R1257	**51718 8**			0.25	1
	32	**FS 201-K 32/0.03**	2CSR255101R1327	**51719 5**			0.25	1
300	1	**FS 201-K 1/0.3**	2CSR255101R3017	**56961 3**			0.25	1
	2	**FS 201-K 2/0.3**	2CSR255101R3027	**56962 0**			0.25	1
	4	**FS 201-K 4/0.3**	2CSR255101R3047	**56963 7**			0.25	1
	6	**FS 201-K 6/0.3**	2CSR255101R3067	**56964 4**			0.25	1
	10	**FS 201-K 10/0.3**	2CSR255101R3107	**56965 1**			0.25	1
	13	**FS 201-K 13/0.3**	2CSR255101R3137	**56966 8**			0.25	1
	16	**FS 201-K 16/0.3**	2CSR255101R3167	**56967 5**			0.25	1
	20	**FS 201-K 20/0.3**	2CSR255101R3207	**56968 2**			0.25	1
	25	**FS 201-K 25/0.3**	2CSR255101R3257	**56969 9**			0.25	1
	32	**FS 201-K 32/0.3**	2CSR255101R3327	**56970 5**			0.25	1
30	6	**FS 201-C 0.03**	2CSR255101R1064	**552882**			0.25	1
	10	**FS 201-C 0.03**	2CSR255101R1104	**552899**			0.25	1
	13	**FS 201-C 0.03**	2CSR255101R1134	**552905**			0.25	1
	16	**FS 201-C 0.03**	2CSR255101R1164	**552912**			0.25	1
	20	**FS 201-C 0.03**	2CSR255101R1204	**552929**			0.25	1
	25	**FS 201-C 0.03**	2CSR255101R1254	**552936**			0.25	1
	32	**FS 201-C 0.03**	2CSR255101R1324	**552936**			0.25	1
	40	**FS 201-C 0.03**	2CSR255101R1404	**552950**			0.25	1
300	6	**FS 201-C 6/0.3**	2CSR255101R3064	**53983 8**			0.25	1
	10	**FS 201-C 10/0.3**	2CSR255101R3104	**53984 5**			0.25	1
	13	**FS 201-C 13/0.3**	2CSR255101R3134	**53985 2**			0.25	1
	16	**FS 201-C 16/0.3**	2CSR255101R3164	**53986 9**			0.25	1
	20	**FS 201-C 20/0.3**	2CSR255101R3204	**53987 6**			0.25	1
	25	**FS 201-C 25/0.3**	2CSR255101R3254	**53988 3**			0.25	1
	32	**FS 201-C 32/0.3**	2CSR255101R3324	**53989 0**			0.25	1
	40	**FS 201-C 40/0.3**	2CSR255101R3404	**53990 6**			0.25	1

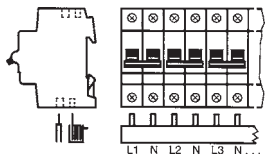
PS 1/2 - PS 1/12 SK 0027 B 99



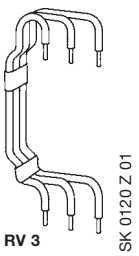
PS 3/6 - PS 3/12 SK 0028 B 99



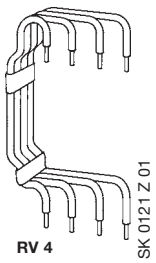
PS 3/57 FI SK 0058 Z 02
PS 3/12 FI (GHV…)



PS 4/58 N SK 0065 Z 02
TS 4/58116 N



RV 3 SK 0120 Z 01



RV 4 SK 0121 Z 01

SZ-BSK SK 0100 B 99

Selection table busbars (to be used exclusive with compact series)

cross section mm²	module	phases	order details type code	order code	bbn 40 16779 EAN	price 1 piece €	price group	w'ght 1 pc. kg	pack. unit pc.
busbars cannot be cut to length (standard style)									
10	2	1	**PS 1/2**	2CDL 210 001 R1002	**46300 3**			0.008	180
10	3	1	**PS 1/3**	2CDL 210 001 R1003	**51465 1**			0.025	60
10	6	1	**PS 1/6**	2CDL 210 001 R1006	**46310 2**			0.025	60
10	9	1	**PS 1/9**	2CDL 210 001 R1009	**46320 1**			0.039	30
10	12	1	**PS 1/12**	2CDL 210 001 R1012	**46330 0**			0.052	30
10	6	3	**PS 3/6**	2CDL 231 001 R1006	**46340 9**			0.042	60
10	9	3	**PS 3/9**	2CDL 231 001 R1009	**46350 8**			0.069	30
10	12 (no NA)	3	**PS 3/12**	2CDL 231 001 R1012	**46360 7**			0.096	30
10	12	3	**PS 3/12 FI**	2CDL 231 002 R1012	**46370 6**			0.094	30
1, 2, 3 and 4-pole busbars to be cut to length									
10	57	1	**PS 1/57 N A***	2CDL 210 011 R1057	**57972 8**			0.145	30
16	57	1	**PS 1/57/16 N A***	2CDL 210 011 R1657	**57973 5**			0.205	30
10	60	1	**PS 1/60**	2CDL 210 001 R1060	**51466 8**			0.260	30
16	60	1	**PS 1/60/16**	2CDL 210 001 R1660	**51665 5**			0.365	30
10	12	2	**PS 2/12**	2CDL 220 001 R1012	**55652 1**			0.070	50
10	58	2	**PS 2/58**	2CDL 220 001 R1058	**55655 2**			0.320	10
16	58	2	**PS 2/58/16**	2CDL 220 001 R1658	**55656 9**			0.545	10
16	48	2	**PS 2/48/16 H ****	2CDL 220 001 R1648	**55654 5**			0.680	10
10	12	3	**PS 3/12**	2CDL 230 001 R1012	**57611 6**			0.110	50
10	60	3	**PS 3/60**	2CDL 230 001 R1060	**51469 9**			0.505	10
10	60	3	**PS 3/60 A**	2CDL 230 010 R1060	**56375 8**			0.510	10
16	60	3	**PS 3/60/16**	2CDL 230 001 R1660	**51470 5**			0.760	10
16	60	3	**PS 3/60/16 A**	2CDL 230 010 R1660	**56376 5**			0.640	10
10	39	3	**PS 3/39 H ****	2CDL 230 001 R1039	**55659 0**			0.505	10
16	39	3	**PS 3/39/16 H ****	2CDL 230 001 R1639	**55660 6**			0.760	10
10	48	3	**PS 3/48 H ****	2CDL 230 001 R1048	**55661 3**			0.505	10
16	48	3	**PS 3/48/16 H ****	2CDL 230 001 R1648	**55664 4**			0.760	10
10	12	3	**PS 3/12 FI**	2CDL 230 002 R1012	**57107 4**			0.110	50
10	12	3	**PS 3/12 FI H**	2CDL 230 003 R1012	**57108 1**			0.110	50
10	57	3	**PS 3/57 FI**	2CDL 230 002 R1057	**55665 1**			0.550	10
10	12	4	**PS 4/12**	2CDL 240 001 R1012	**55666 8**			0.120	50
10	60	4	**PS 4/60**	2CDL 240 001 R1060	**55668 2**			0.800	10
16	12	4	**PS 4/12/16**	2CDL 240 001 R1612	**55667 5**			0.240	50
16	60	4	**PS 4/60/16**	2CDL 240 001 R1660	**55674 3**			1.205	10
10	58	4	**PS 4/58 N**	2CDL 240 001 R1058	**55670 5**			0.800	10
10	58	4	**PS 4/58 N A**	2CDL 240 010 R1058	**56373 4**			0.540	10
16	58	4	**PS 4/58/16 N**	2CDL 240 001 R1658	**55673 6**			1.205	10
16	58	4	**PS 4/58/16 N A**	2CDL 240 010 R1658	**56374 1**			0.750	10
16	52	4	**PS 4/52/16 H ***	2CDL 240 001 R1652	**55669 9**			1.300	10

* blue isolation ** bar with auxiliary switch cut-out A = with knockout pins

Note: busbars up to 12-module with end caps (standard style)
PS/1/60 no end caps required
PS 2/.. and PS 3/.. use PS END
PS 4/.. use PS END 1

End caps

			PS-END	2CDL 200 001 R0001	**51472 9**			0.001	50
			PS-END 1	2CDL 200 001 R0002	**57011 4**			0.001	

Main circuit-breaker busbar

3-phase busbar (10mm²) for connecting the main circuit-breaker E 463/3-KB to pro *M* compact devices incl. end caps. No. of poles: 12 (1xE 463/3-KB + 9xS 201)

	12	3	**PS 3/12 E463**	2CDL 230 004 R1012	**51741 6**			0.081	30

Rail connectors

for wiring component rows in the consumer unit with a rail-to-rail clearance of 125 mm.
The insulation material of the N is blue in the case of 4-pole connectors.

10	3-pole		**RV 3**	GH V036 0504 R0023	**51238 1**			0.080	25
10	4-pole		**RV 4**	GH V036 0504 R0024	**51224 4**			0.114	25

Auxiliary contact bridge

wire jumper for integrated auxiliary contact S 200 H for series connection

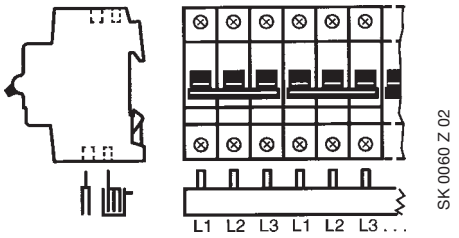
	1/2 mod.		**HKB**	GH V036 0504 R0100	**52313 4**			0.001	1000

Shock-protection caps for PS... busbar

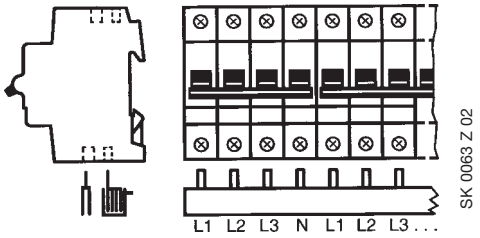
		5 parts	**SZ-BSK**	2CDL 200 001 R0011	**42000 6**			0.003	10

Wiring examples

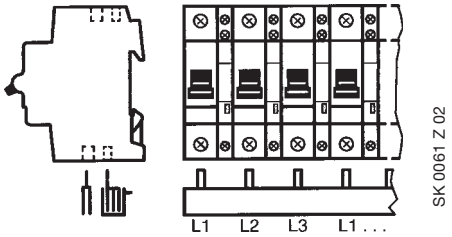
PS 3/12
PS 3/60
PS 3/60/16



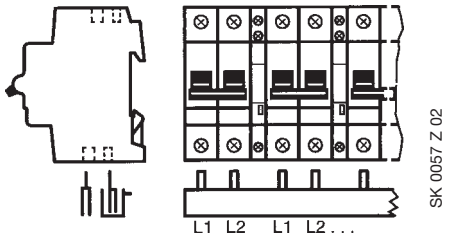
PS 4/12
PS 4/12/16
PS 4/60
PS 4/60/16



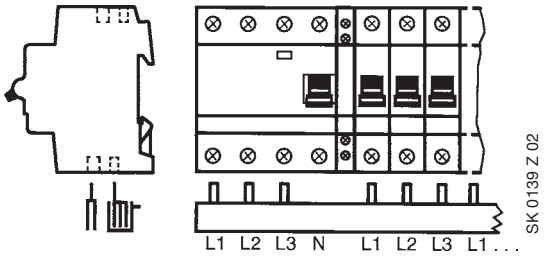
PS 3/39 H
PS 3/39/16 H



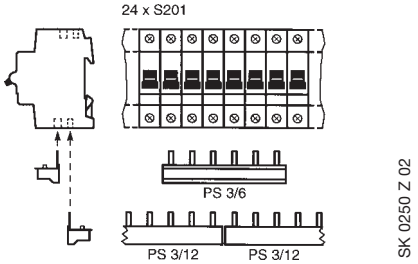
PS 2/48/16 H



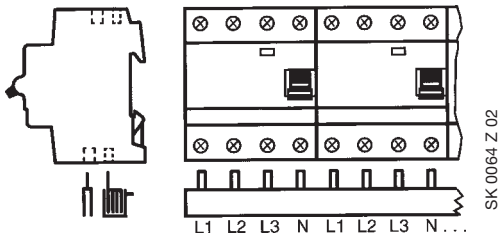
PS 3/12 FI H



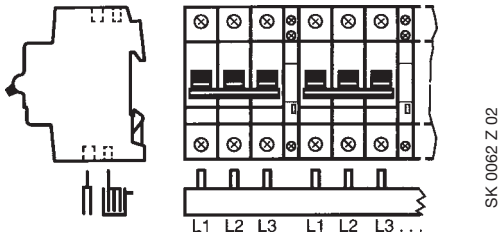
Example for overlapping



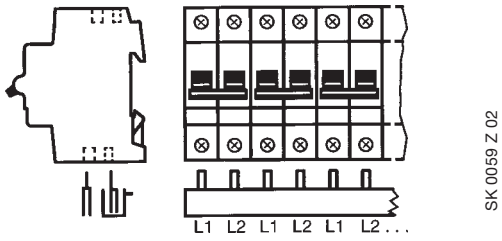
PS 4/12
PS 4/12/16
PS 4/60
PS 4/60/16



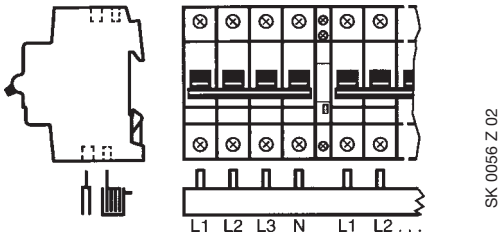
PS 3/48 H
PS 3/48/16 H



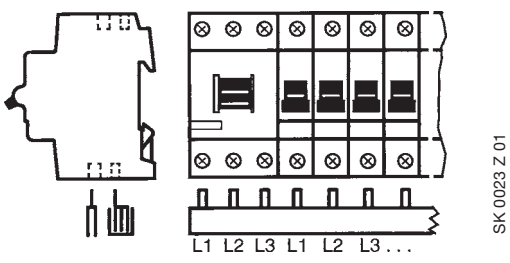
PS 2/12
PS 2/12/16
PS 2/58
PS 2/58/16



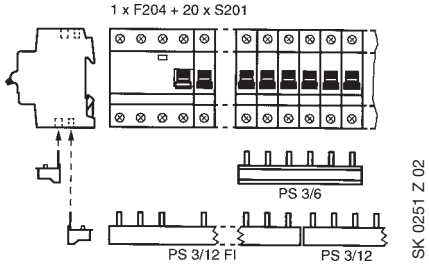
PS 4/52/16 H



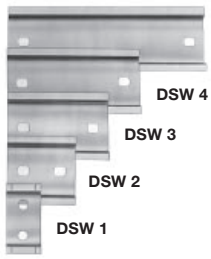
PS 3/12 E 463



Example for overlapping



Accessories
Miniature circuit-breakers S 200
Residual-current-operated circuit breaker F 200



SK 0086 B 91


SK 0046 B 99


SK 0108 B 91

SA 1


SK 0109 B 91

SA 2


SK 0184 B 91

SZ-FST


SK 0077 B 96

PCD 4 N


SK 0079 B 96

PCD 8 N


SK 0019 B 98

QES 4/3 N

description	type code	order code	bbn 40 12233 EAN	price 1 piece €	price group	w'ght 1 pc. kg	pack. unit pc

Mounting rails (EN 60 715 - 35 x 7.5)

For individual installation with 2 screws onto an even surface (1 module = 17.5 mm)

for 1 module	**DSW 1**	GH S210 1926 R0001	**13580 6**			0.006	10
for 2 modules	**DSW 2**	GH S210 1926 R0002	**13590 5**			0.012	10
for 3 modules	**DSW 3**	GH S210 1926 R0003	**13600 1**			0.018	10
for 4 modules	**DSW 4**	GH S210 1926 R0004	**13610 1**			0.024	10
for 6 modules	**DSW 6**	GH S210 1926 R0006	**13620 9**			0.030	10

Locking devices for miniature circuit-breakers and switches

for the protection against unauthorised or unsafe operation of the operating lever. An adaptor makes it possible to block the operating lever whether switched ON or OFF. The lever is blocked with a padlock having a bar cross section of 3 or 6 mm max. For multipole devices, one lock may be fitted per pole.

application

block against closing
- block to prevent unwanted closing during maintenance work
- block and initialisation notice
- block in the case of power cut-offs

block against opening
- to prevent unwanted manual opening e.g. in alarm devices, air-condition systems, IT equipment, etc.
- re-initialisation after tripping only possible by authorised personnel

The lock adapter can be used for all MCBs of series S 200, S 440, S 280, switches of series E 220 and 270 as well as residual-current-operated circuit-breaker F 200, F 440.

lock-out latch for padlock bar	3 mm	**SA 1**	GJ F110 1903 R0001	**58760 5**			0.004	10
	6 mm	**SA 1E**	GJ F110 1903 R0004	**58790 2**			0.004	10
padlock with 2 keys		**SA 2**	GJ F110 1903 R0002	**58770 4**			0.02	10
padlock, identical locking with 2 keys		**SA 2 i**	GJ F110 9999 R0001	**96940 1**			0.02	10
lock adapter incl. padlock with three keys in transparent box		**SA 3**	GJ F110 1903 R0003	**58780 3**			0.05	10

Filler piece

Width 8.75 mm as heat conductor for M.C.B.'s mounted in a row. Three different heights, with break-off sections.

	SZ-FST	GJ I148 0003 R0001	**59410 8**			0.01	25

Terminal cover with base plate, degree of protection IP 20

The temrinal cover is snapped into place onto the base plate and is sealable.
The base plate is fitted with an integrated DIN mounting rail.

for 2 modules	**PCD 2 N**	GH S270 1921 R0002	**11869 8 ②**			0.08	1
for 4 modules	**PCD 4 N**	GH S270 1921 R0004	**11872 8 ②**			0.14	1
for 6 modules	**PCD 6 N**	GH S270 1921 R0006	**11877 3 ②**			0.175	1
for 8 modules	**PCD 8 N**	GH S270 1921 R0008	**14222 8 ②**			0.63	1
blanking plate 1 module = 17.5 mm with half module width	**BP**	GH S270 1913 R0001	**12857 4 ②**			0.005	10

① to be retrofitted in terminal system PCD...

Enclosure of moulded-plastic, degree of protection IP 55

complete with device DIN rails EN 60 715 and 3, bzw. 5 cable entry grommets Pg 21
for 4 modules, knockouts: top1 x Pg 21, bottom 2 x Pg 21

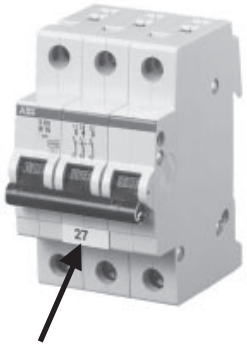
with 2 grommets	**QES 4/3 N**	GH L111 2304 R0013	**12644 0 ②**			0.330	1

for 6 modules, knockouts: top and bottom, each 3 x Pg 21

for 2 grommets	**QES 6/3 N**	GH L111 2306 R0013	**12646 4 ②**			0.420	1

casing for 10 modules (QES 10/3 N) please inquire

② bbn-Nr. 80 00126



SK 0047 B 99

identification label from BS 1/40

description	**order details** type code	order code	**bbn 40 16779 EAN**	**price** 1 piece €	price group	w'ght 1 pc. kg	pack. unit pc.

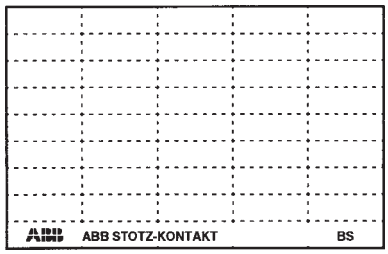
Labelling system

Self-adhesive identification labels are available for all devices of the **System pro *M* compact** range.
An integrated positioning aid ensures the exact arrangement of labels.

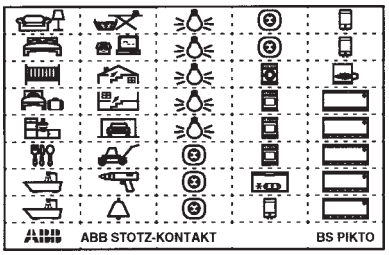
Selection table

Each package contains 40 labels, marked or blank. Blank label mats can be labeled by hand with an indelible, waterproof pen or with computerised labelling systems (plotter).

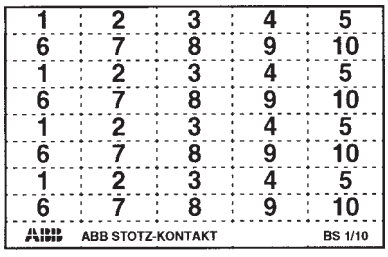
identification labels blank	**BS**	GH S200 1946 R0001	**47810 6**				30
identification labels with pictograms	**BS Pikto**	GH S200 1946 R0002	**47820 5**				30
identification labels labeled 4 x 1-10	**BS 1/10**	GH S200 1946 R0003	**47830 4**				30
identification labels labeled 2 x 1-20	**BS 1/20**	GH S200 1946 R0004	**47840 3**				30
identification labels labeled 1-40	**BS 1/40**	GH S200 1946 R0005	**47850 2**				30



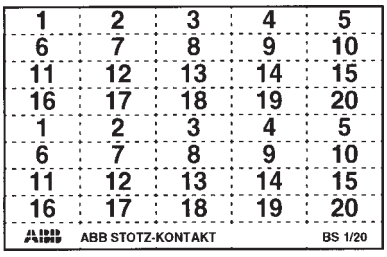
SK 0101 Z 99



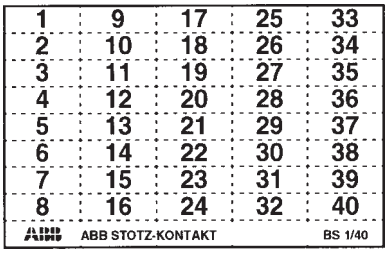
SK 0102 Z 99



SK 0103 Z 99



SK 0104 Z 99



SK 0105 Z 99

RCCBs and RCBOs and their fields of applications

Areas of application	DIN VDE…	Required sensitivity I_nmA	F 200 F 660 F 670	F 200 F 690 S	F 172 FS 200	F220 F 804
In apartments ≤32 A Socket-outlets up to 20 A Outdoor lightning installations	0100 – 739 0100 – 470 0100 – 714	10…30 10…30 10…30	F 200 F 660 F 670		F 172 FS 200	
Fire protection in high-risk or high-danger areas	0100 – 482	10 u. 30	F 200 F 660 F 670	F 200 F 690	F 172 FS 200	
Rooms with bath tub or shower Swimming pools	0100 – 701 0100 – 702	10…30 10…30	F 200 F 660 F 670		F 172 FS 200	
Construction sites Socket-outlet circuits up to 32 A and other socket-outlet circuits	0100 – 704 BG F&E	10…30 ≤300…500①	F 200 F 660 F 670	F 200 F 690	F 172 FS 200	F 220 F 804 Type B
Agricultural and horticultural properties, General socket-outlet circuits	0100 – 705	≤300…500① 10…30	F 200 F 660 F 670	F 200 F 690	F 172 FS 200 F 270 P 270	
Feed points for caravans Camp sites	0100 – 708	10…30	F 200 F 660 F 670		F 172 FS 200	
Berths Socket-outlets	0100 – 721	10…30	F 200 F 660 F 670		F 172 FS 200	
Temporary buildings, carny carriages and caravans, Feed points	0100 – 722	30 and 300	F 200 F 660 F 670	F 200 F 690	F 172 FS 200	
Medical rooms Group 1 Group 2 a Group 2 b	0100 – 710	at $I_n \leq 32$ A 10…30 10…30 ≤ 300	F 200 F 660 F 670	F 200 F 690	F 172 FS 200	F 220 F 804 Type B
Equipment of power installations with electronic items $I_{\Delta b}$ type A, test for type B	0160 DIN EN 50 178	≤ 4kVA 10…30 > 4kVA 300	F 200 F 660 F 670	F 200 F 690	F 172 FS 200	F 220 F 804 Type B
Photovoltaics	0100 – 712 E EnBW	≤ 30				F 220 F 802 Type B

① Operating areas subject to fire hazards… VdS 2033: 2002 – 02 ≤ 300 mA

System pro *M* compact ®

Approvals and certifications by classification societies

MCB's and RCB's

Type	Approvals												Ship classification associatons			
Sign of comformity		BD 6				①	①									
Code	SEV	DEMKO	NEMKO	SEMKO	EL.	CSA Inspect.		KEMA	ÖVE	CEBEC	UTE	VDE	BV	GL	LRS	DNV
Valid for	CH	DK	N	S	SF	CDN	USA	NL	A	B	F	D	F	D	GB	N
							277/480 V~									
S 200, B, C 1 – 4 pole	□	□	□	□	□		■	□	□	□	□	■	□	□	□	□
S 200 M 1 – 4 pole	□	□	□	□	■			□	□	□	□	■	□	□	□	□
F 200 - 16/25/ 40 – 0.01/ 0.03/0.1/ 0.3/0.5							■									
F 200 A, AC, S 2/4 pole 16…63 A 0.01…0.5 A	■	■	■	■	■			□	■	□	□	■				
FS 201 B 6…40/0,03 A C 16/0,03	■	■	■	■	■			□	■	□	□	■				

■ approved
□ submitted for aproval/planed to be submitted
△ Approved variants on request
○ Approval not required

① Back-up protection usually required.
For details contact your importer and/or inspector.

Pub. No. 2CDC 002 001 D0203

ABB STOTZ-KONTAKT GmbH
P.O. Box 10 16 80, 69006 Heidelberg, Germany
Eppelheimer Straße 82, 69123 Heidelberg, Germany
Telephone: +49 (0) 62 21 701- 0
Fax: +49 (0) 62 21 701-723
www.abb.de/stotz-kontakt