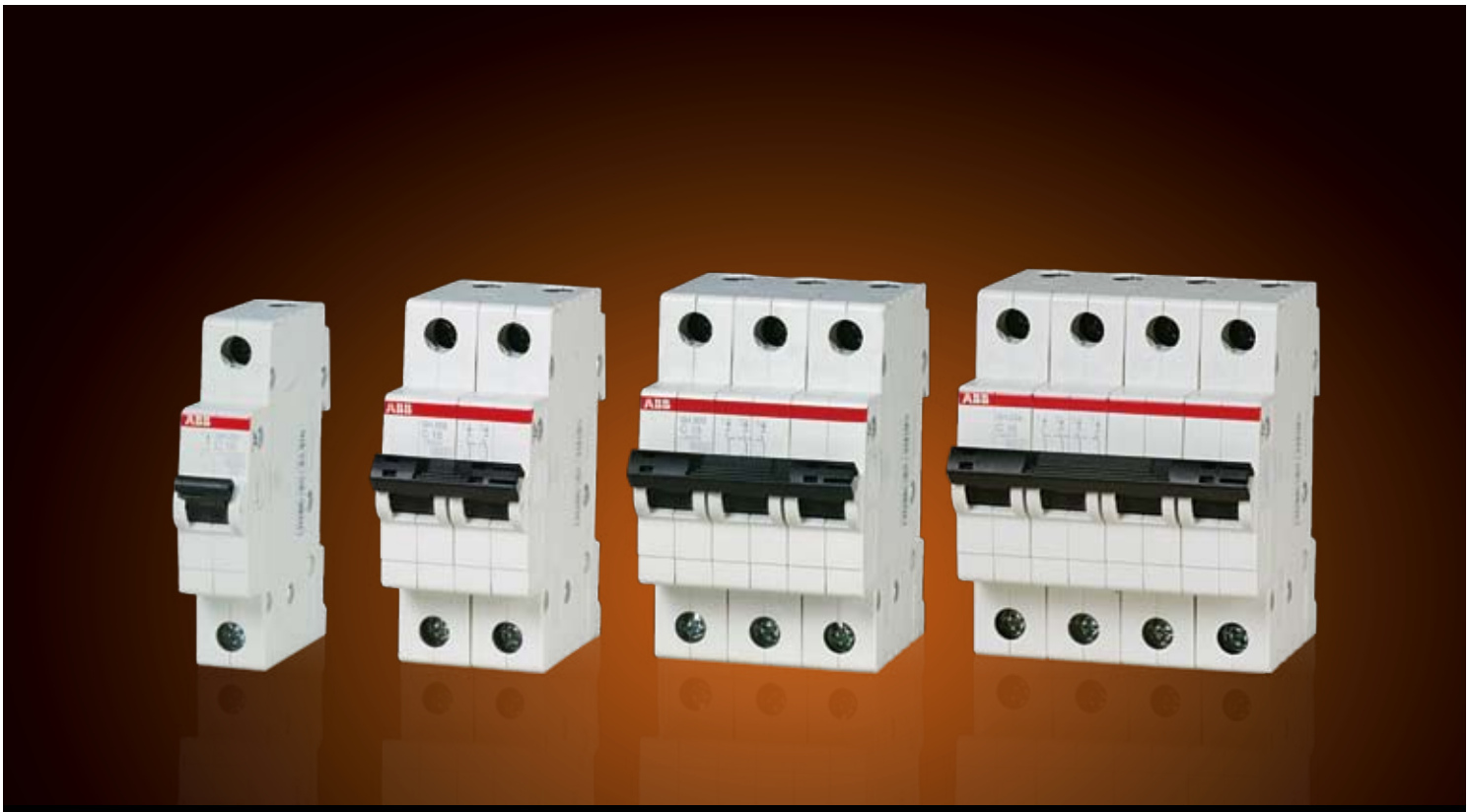

Technical catalogue

Line Protection Devices
Miniature circuit-breakers (MCB)
• SH200

Power and productivity
for a better world™

Compact Home
Protection and comfort systems for your home

Power and productivity
for a better world™

ABB

MCB - SH200

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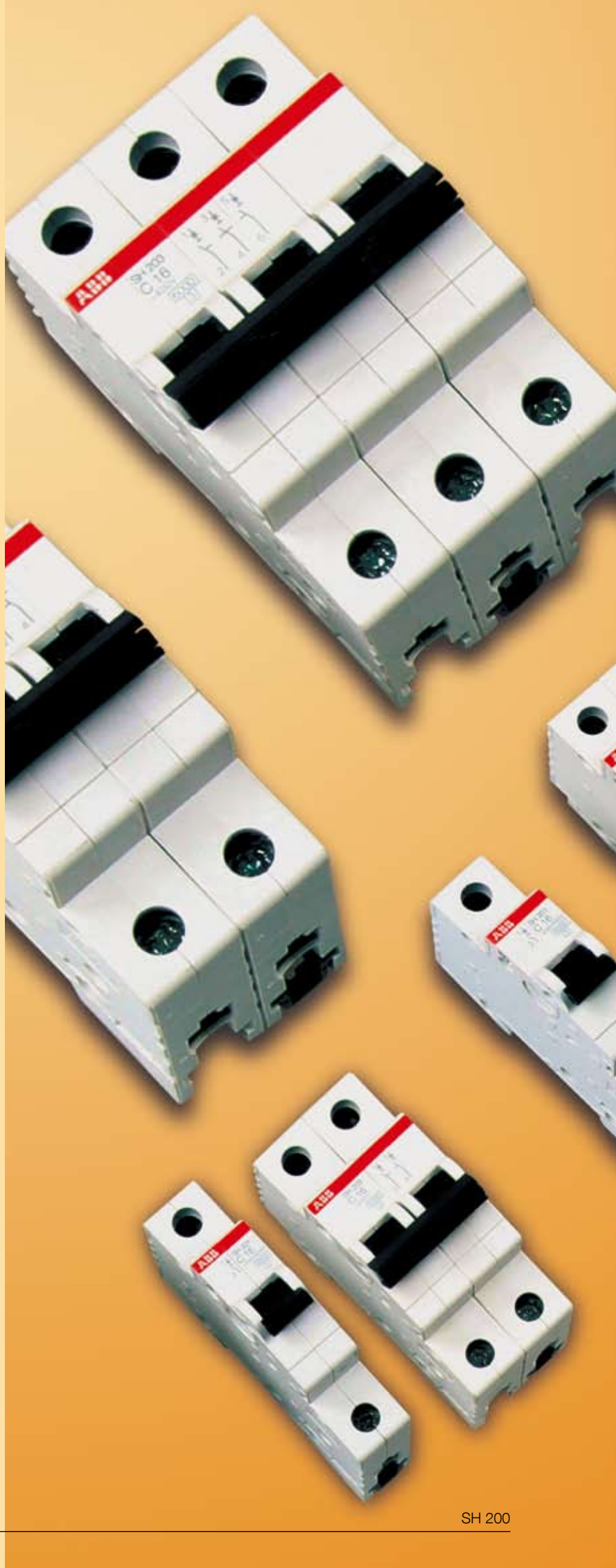
The ABB Line Protection Devices quality system is conforming with the ISO 9001 International Standard (model for quality assurance as regards design, development, construction, installation and service) and to the equivalent EN ISO 9001 European Standard.

ABB commitment to protecting the environment is also shown in concrete way by the Life Cycle Assessments of the products, which is being realized directly by ABB Research and Development.

All the products of Compact Home range are conforming to the European standards 2002/95/CE regarding the restrictions on the use of certain dangerous substances in the electrical and electronical equipments.
It is necessary to respect the local regulations concerning the elimination of the packaging materials and of the circuit-breakers and, if possible, to recycle them.

The symbol  marked on the product means that the circuit breaker must not be eliminated together with the general litter.



All Compact Home devices comply to European and international product standards :

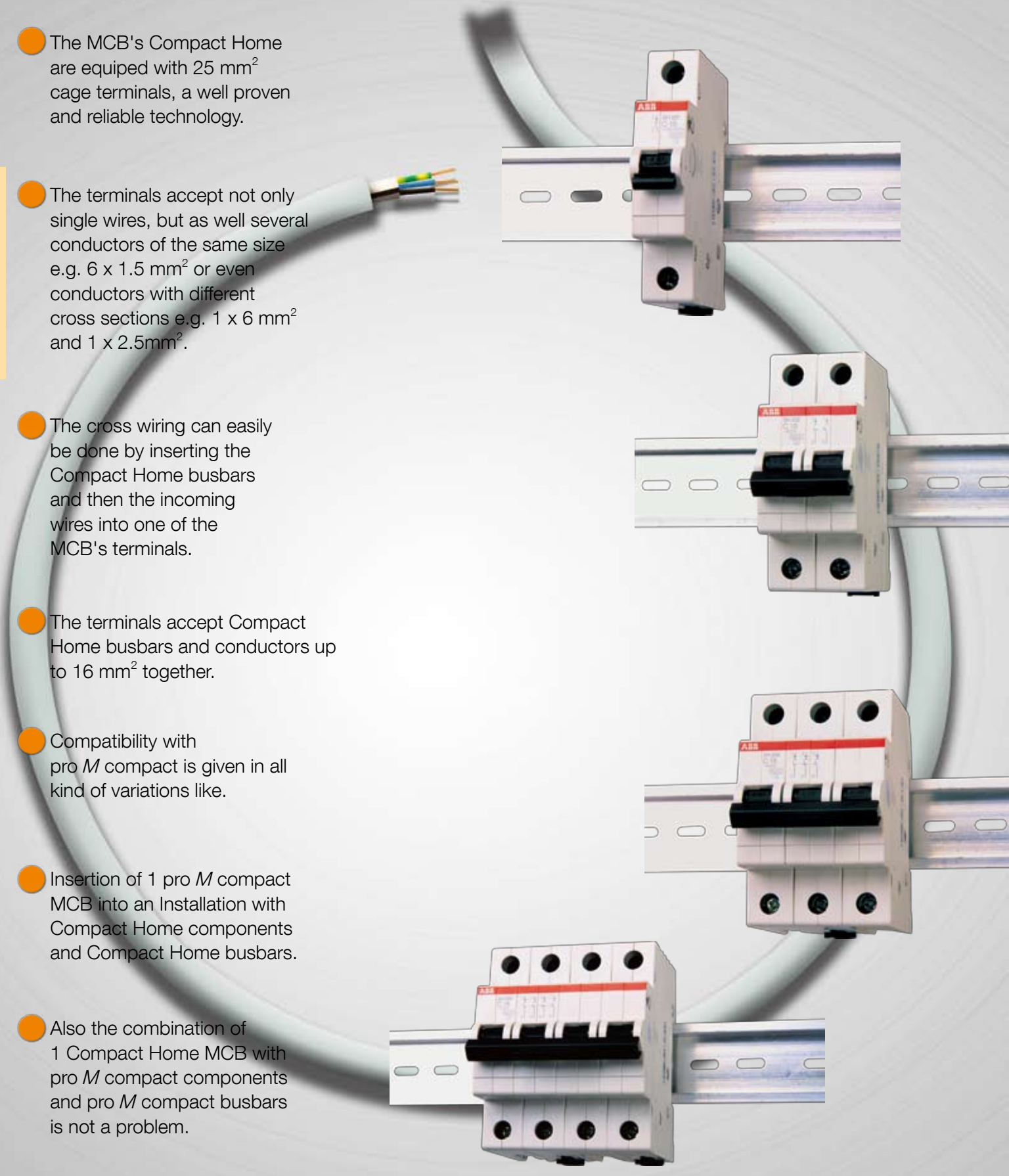
- IEC/EN 60898 (MCBs)

They are also conforming to the following EC directives :

- Electromagnetic Compatibility Directive IEC61543

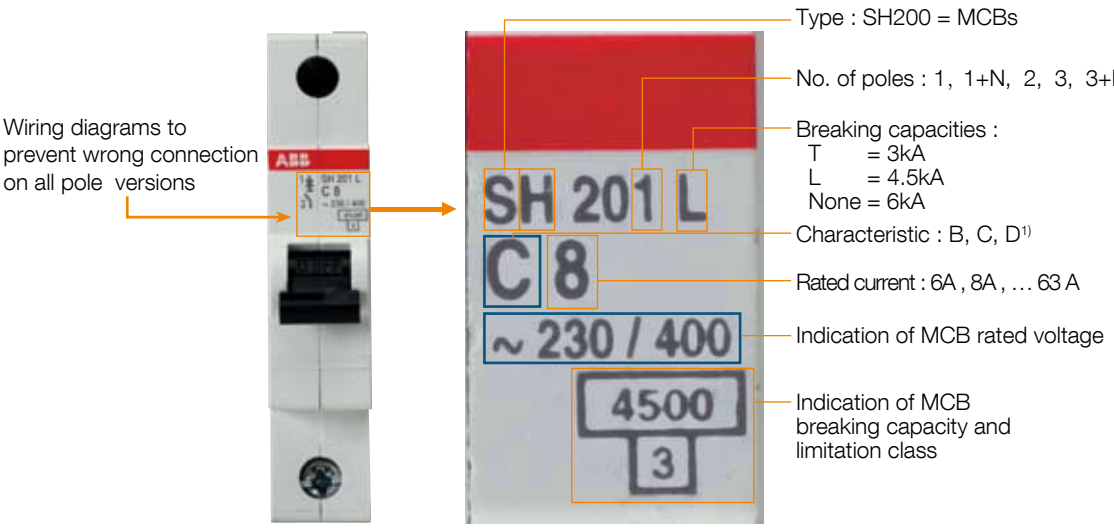
CE marking of Compact Home devices warrants free circulation and sale in European Union. It is realized on supplier's responsibility, in addition to this marks and approvals, guarantee functioning, compatibility and safety conforming to national and International Standards.

- The MCB's Compact Home are equiped with 25 mm^2 cage terminals, a well proven and reliable technology.
- The terminals accept not only single wires, but as well several conductors of the same size e.g. 6 x 1.5 mm^2 or even conductors with different cross sections e.g. 1 x 6 mm^2 and 1 x 2.5mm^2.
- The cross wiring can easily be done by inserting the Compact Home busbars and then the incoming wires into one of the MCB's terminals.
- The terminals accept Compact Home busbars and conductors up to 16 mm^2 together.
- Compatibility with pro *M* compact is given in all kind of variations like.
- Insertion of 1 pro *M* compact MCB into an Installation with Compact Home components and Compact Home busbars.
- Also the combination of 1 Compact Home MCB with pro *M* compact components and pro *M* compact busbars is not a problem.



MCB - SH200

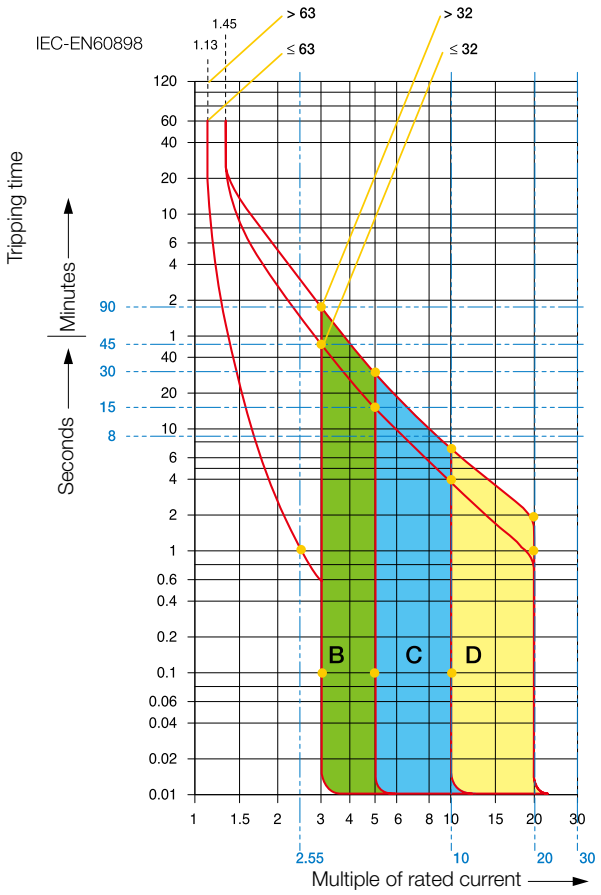
Introduction



1) Characteristic D is only for SH200

for more information about this products, see the technical catalogue

Tripping diagrams



Tripping characterisitic B, C, D
acc. to DIN VDE 0641 part 11
SH200 : I_n = 6 ... 63 A
SH200 T / SH200 L : I_n = 6 ... 40 A

MCB - SH200
Technical Data

			SH200 T	SH200 L	SH200
Electrical features					
Standards			IEC/EN 60898, GB10963.1		
Rated current In		A	6 - 40		6 - 63
Poles			1, 2, 3, 4, 1+NA, 3+NA		
Rated Voltage Ue	IEC 1P, 1P+N IEC 2P, 3P, 3P+N, 4P	V V	230 230/400		
Insulation voltage Ui		V	250		
Max. operating voltage Ub max.	IEC AC	V	254/440		
Min. operating voltage Ub min.		V	12 V AC - 12 V DC		
Rated frequency		Hz	50⋯60		
Rated breaking capacity ultimate Icn	IEC/EN 60898	A	3000	4500	6000
Rated impulse withstand voltage (1.2 / 50) Uimp		kV	4 (test voltage 6.2 at sea level, 5 at 2000 m)		
Dielectric strength at power freq. for 1 min.		kV	2.5		
Overvoltage category			III		
Pollution degree			2		
Thermomagnetic release characterisitic	B: 3 In ≤ Im ≤ 5 In C: 5 In ≤ Im ≤10 In D: 10 In ≤ Im ≤ 20 In		• •		• • •
Mechanical features					
Toggle			black sealable in ON-OFF position		
Electrical life			10000		
Mechanical life / operations			20000		
Protections degree / operations	housing terminals		IP4X IP2X		
Mechanical shock resistance			30 g - 2 shocks - duration 11 ms		
Resistance to vibrations acc. to IEC/EN 60060-2--6			5g - 20 cycles at frequency 5...150...5 Hz with 0.8 x In		
Tropicalization (acc. to IEC/EN 60068-2)	humid heat constant climatic conditions variable climatic conditions	˚C /RH ˚C /RH ˚C /RH	28 cycles with 55/95...100 23/28 - 40/93 - 55/20 25/95 - 40/95		
Reference temperature for setting of thermal element		˚C	30		
Ambient temperature (with daily averages ≤ +35˚C)	IEC	˚C	-25...+55		
Storage temperature		˚C	-40...+70		
Installation					
Terminal type			cage terminal		
Terminal size top / bottom for cable	IEC	mm^2	25/25		
Tightening torque	IEC	N*m	2.5		
Tool			Nr. 2 Pozidriv		
Mounting			on DIN rail EN 60715 (35 mm) by means of fast clip device		
Mounting position			optional		
Connection			from top and bottom		
Dimensions and weight					
Pole dimensions (H x D x W)		mm	85 x 68 x 17.5		
Pole weight		g	125		

Internal resistances and power losses of the Miniature Circuit-Breakers

Rated current A	SH 200 T (B, C)		SH 200 L (B, C)		SH 200 (B, C, D)	
	Internal resistances (mΩ)	Power losses (W)	Internal resistances (mΩ)	Power losses (W)	Internal resistances (mΩ)	Power losses (W)
6	64	2.3	64	2.3	55	2.0
8	-	-	-	-	15	1.0
10	19	1.9	19	19	13.3	1.3
13	-	-	-	-	13.3	2.3
16	14	3.6	14	3.6	7.0	1.8
20	12	4.8	12	4.8	6.25	2.5
25	7.1	4.4	7.1	4.4	5.0	3.2
32	6.5	6.7	6.5	6.7	3.6	3.7
40	4.7	7.5	4.7	7.5	3.0	4.8
50	-	-	-	-	1.3	3.25
63	-	-	-	-	1.2	4.8

Tripping characteristics

Tripping characterisitic	Thermal trips ①			Electromagnetic trips ②		
	Test currents		Tripping-time	Test currents		Tripping - time
	Low test current I_1	High test current I_2		hold current surges	trip at least	
B	$1.13 \cdot I_n$	-	> 1 h	$3 \cdot I_n$	-	0.1 s ... 45 s ≤ 32 A / 0.1 s ... 90 s ≥ 32 A
	-	$1.45 \cdot I_n$	< 1 h ③	-	$5 \cdot I_n$	< 0.1 s
C	$1.13 \cdot I_n$	-	> 1 h	$5 \cdot I_n$	-	0.1 s ... 45 s ≤ 32 A / 0.1 s ... 30 s ≥ 32 A
	-	$1.45 \cdot I_n$	< 1 h ③	-	$10 \cdot I_n$	< 0.1 s
D	$1.13 \cdot I_n$	-	> 1 h	$10 \cdot I_n$	-	0.1 s ... 45 s ≤ 32 A / 0.1 s ... 30 s ≥ 32 A
	-	$1.45 \cdot I_n$	< 1 h	-	$20 \cdot I_n$	< 0.1 s

① Influence of ambient temperature see below.
② The tripping for the electromagnetic trip are valid for AC 50··· 60 Hz. For other frequencies see table below.
③ From warm operating condition (After I1 > 1 h resp. 2 h)

Influence of frequency on electromagnetic trips

The stated tripping values of the electromagnetic trips are valid for a frequency of 50 ... 60 Hz. In case of frequencies deviating from 50 ... 60 Hz as well as direct current the tripping values are changed by the factor mentioned below.

	AC			DC
	100 Hz	200 Hz	400 Hz	
Factor approx.	1.1	1.2	1.5	1.5

The tripping values of the thermal trips are independent of the frequency

Influence of ambient temperature

The thermal trips are calibrated for an ambient temerpature 30 ˚C for B-, C- and D-characteristic.

In the case of temperatures deviating from these values the tripping values
- are reduced in case of higher temperatures
- are increased in case of lower temperatures

The electronic tripping is not dependent on temperature

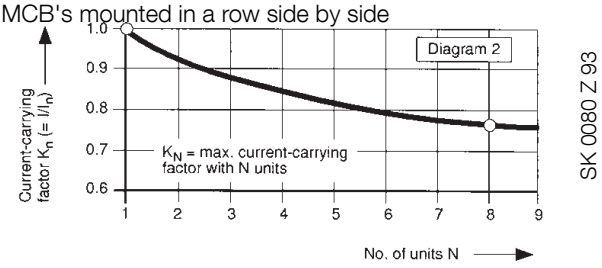
Current-carrying capacity of the MCB's as a function of the ambient temperature

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

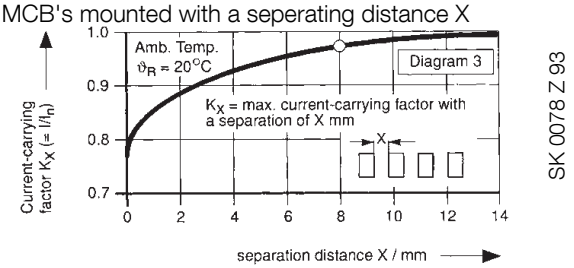
B, C and D	Ambient temperature T (°C)											
In (A)	-40	-30	-20	-10	0	10	20	30	40	50	60	70
6	8.0	7.7	7.5	7.2	6.9	6.6	6.3	6.0	5.7	5.3	4.9	4.5
8	10.7	10.3	10.0	9.6	9.2	8.8	8.4	8.0	7.5	7.1	6.5	6.0
10	13.3	12.9	12.5	12.0	11.5	11.1	10.5	10.0	9.4	8.8	8.2	7.5
13	17.3	16.8	16.2	15.6	15.0	14.4	13.7	13.0	12.3	11.5	10.6	9.7
16	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	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	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	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	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	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	84.0	81.3	78.6	75.7	72.7	69.6	66.4	63.0	59.4	55.6	51.4	47.0

Mutual thermal influence in the case of simultaneous load

MCB's mounted in a row side by side

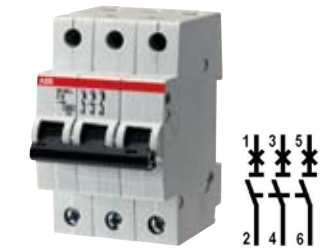


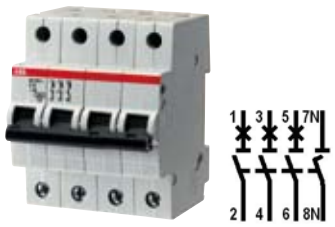
MCB's mounted with a seperating distance X

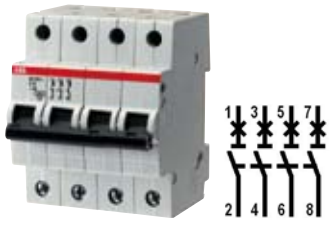


Load data	from diagram	Calculation	Example
Rated current and characteristics of M.C.B. Continuous load Number of M.C.B.'s / Mounting distance		I_n / B, C, D ϑ_R N / X	16 A – B 40 °C 8 pieces / 0 and 8 mm
Load ≤ 1 h	1 a resp. 1 b	$I = I_n \cdot K_\vartheta$	16 · 1.07 = 17.1 A
Continuous load > 1 h		$I = 0.9 \cdot I_n \cdot K_\vartheta$	0.9 · 16 · 1.07 = 15.4 A
Continuous load, N M.C.B.'s, Distance 0 Continuous load, N M.C.B.'s, Distance X	2 3	$I = 0.9 \cdot K_\vartheta \cdot K_N$ $I = 0.9 \cdot K_\vartheta \cdot K_X$	0.9 · 16 · 1.07 · 0.77 = 11.9 A 0.9 · 16 · 1.07 · 0.98 = 15.1 A

MCB - SH200 T
Selection Tables





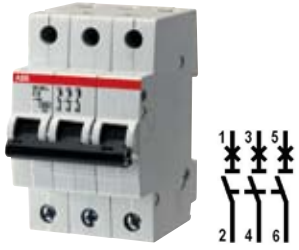


Applications: buildings, both residential and commercial

B characteristic: protection and control of the circuits against overloads and short-circuits; protection for people and big-length cables in TN and IT systems.

Type No.	Rated Current I_n (A)	Breaking capacity I_{cn} (kA)	Order Code	Weight (kg/pc)	Packing (pc)
1P (U_{Bmax} : 440 V~ 60 V⎓)					
SH201 T-B6	6	3	2CDS 231 001 R0065	0.125	12
SH201 T-B10	10		2CDS 231 001 R0105		
SH201 T-B13	13		2CDS 231 001 R0135		
SH201 T-B16	16		2CDS 231 001 R0165		
SH201 T-B20	20		2CDS 231 001 R0205		
SH201 T-B25	25		2CDS 231 001 R0255		
SH201 T-B32	32		2CDS 231 001 R0325		
SH201 T-B40	40		2CDS 231 001 R0405		
1P + NA (U_{Bmax} : 440 V~ 60 V⎓)					
SH201 T-B6NA	6	3	2CDS 231 103 R0065	0.25	6
SH201 T-B10NA	10		2CDS 231 103 R0105		
SH201 T-B13NA	13		2CDS 231 103 R0135		
SH201 T-B16NA	16		2CDS 231 103 R0165		
SH201 T-B20NA	20		2CDS 231 103 R0205		
SH201 T-B25NA	25		2CDS 231 103 R0255		
SH201 T-B32NA	32		2CDS 231 103 R0325		
SH201 T-B40NA	40		2CDS 231 103 R0405		
2P (U_{Bmax} : 440 V~ 125 V⎓ with 2 poles connected in series)					
SH202 T-B6	6	3	2CDS 232 001 R0065	0.25	6
SH202T-B10	10		2CDS 232 001 R0105		
SH202 T-B13	13		2CDS 232 001 R0135		
SH202 T-B16	16		2CDS 232 001 R0165		
SH202 T-B20	20		2CDS 232 001 R0205		
SH202 T-B25	25		2CDS 232 001 R0255		
SH202 T-B32	32		2CDS 232 001 R0325		
SH202 T-B40	40		2CDS 232 001 R0405		
3P (U_{Bmax} : 440 V~)					
SH203 T-B6	6	3	2CDS 233 001 R0065	0.375	4
SH203 T-B10	10		2CDS 233 001 R0105		
SH203 T-B13	13		2CDS 233 001 R0135		
SH203 T-B16	16		2CDS 233 001 R0165		
SH203 T-B20	20		2CDS 233 001 R0205		
SH203 T-B25	25		2CDS 233 001 R0255		
SH203 T-B32	32		2CDS 233 001 R0325		
SH203 T-B40	40		2CDS 233 001 R0405		
3P + NA (U_{Bmax} : 440 V~)					
SH203 T-B6NA	6	3	2CDS 233 103 R0065	0.5	4
SH203 T-B10NA	10		2CDS 233 103 R0105		
SH203 T-B13NA	13		2CDS 233 103 R0135		
SH203 T-B16NA	16		2CDS 233 103 R0165		
SH203 T-B20NA	20		2CDS 233 103 R0205		
SH203 T-B25NA	25		2CDS 233 103 R0255		
SH203 T-B32NA	32		2CDS 233 103 R0325		
SH203 T-B40NA	40		2CDS 233 103 R0405		
4P (U_{Bmax} : 440 V~ 125 V⎓ with 2 poles connected in series)					
SH204 T-B6	6	3	2CDS 234 001 R0065	0.5	4
SH204 T-B10	10		2CDS 234 001 R0105		
SH204 T-B13	13		2CDS 234 001 R0135		
SH204 T-B16	16		2CDS 234 001 R0165		
SH204 T-B20	20		2CDS 234 001 R0205		
SH204 T-B25	25		2CDS 234 001 R0255		
SH204 T-B32	32		2CDS 234 001 R0325		
SH204 T-B40	40		2CDS 234 001 R0405		

MCB - SH200 T
Selection Tables

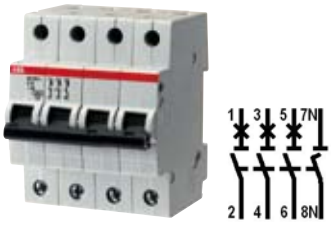


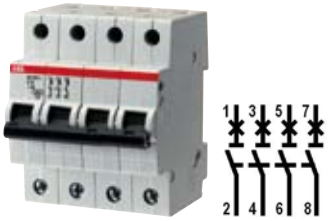
Applications: buildings, both residential and commercial

C characteristic: protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.

Type No.	Rated Current I_n (A)	Breaking capacity I_{cn} (kA)	Order Code	Weight (kg/pc)	Packing (pc)
1P (U_{Bmax} : 440 V~ 60 V⎓)					
SH201 T-C6	6		2CDS 231 001 R0064		
SH201 T-C8	8		2CDS 231 001 R0084		
SH201 T-C10	10		2CDS 231 001 R0104		
SH201 T-C13	13		2CDS 231 001 R0134		
SH201 T-C16	16	3	2CDS 231 001 R0164	0.125	12
SH201 T-C20	20		2CDS 231 001 R0204		
SH201 T-C25	25		2CDS 231 001 R0254		
SH201 T-C32	32		2CDS 231 001 R0324		
SH201 T-C40	40		2CDS 231 001 R0404		
1P + NA (U_{Bmax} : 440 V~ 60 V⎓)					
SH201 T-C6NA	6		2CDS 231 103 R0064		
SH201 T-C8NA	8		2CDS 231 103 R0084		
SH201 T-C10NA	10		2CDS 231 103 R0104		
SH201 T-C13NA	13		2CDS 231 103 R0134		
SH201 T-C16NA	16	3	2CDS 231 103 R0164	0.25	6
SH201 T-C20NA	20		2CDS 231 103 R0204		
SH201 T-C25NA	25		2CDS 231 103 R0254		
SH201 T-C32NA	32		2CDS 231 103 R0324		
SH201 T-C40NA	40		2CDS 231 103 R0404		
2P (U_{Bmax} : 440 V~ 125 V⎓ with 2 poles connected in series)					
SH202 T-C6	6		2CDS 232 001 R0064		
SH202 T-C8	8		2CDS 232 001 R0084		
SH202 T-C10	10		2CDS 232 001 R0104		
SH202 T-C13	13		2CDS 232 001 R0134		
SH202 T-C16	16	3	2CDS 232 001 R0164	0.25	6
SH202 T-C20	20		2CDS 232 001 R0204		
SH202 T-C25	25		2CDS 232 001 R0254		
SH202 T-C32	32		2CDS 232 001 R0324		
SH202 T-C40	40		2CDS 232 001 R0404		
3P (U_{Bmax} : 440 V~)					
SH203 T-C6	6		2CDS 233 001 R0064		
SH203 T-C8	8		2CDS 233 001 R0084		
SH203 T-C10	10		2CDS 233 001 R0104		
SH203 T-C13	13		2CDS 233 001 R0134		
SH203 T-C16	16	3	2CDS 233 001 R0164	0.375	4
SH203 T-C20	20		2CDS 233 001 R0204		
SH203 T-C25	25		2CDS 233 001 R0254		
SH203 T-C32	32		2CDS 233 001 R0324		
SH203 T-C40	40		2CDS 233 001 R0404		

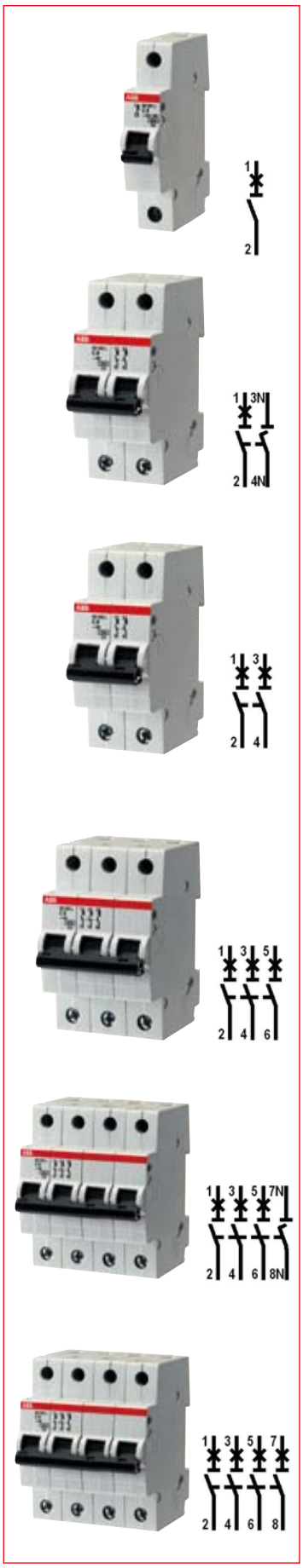
MCB - SH200 T
Selection Tables





Type No.	Rated Current I_n (A)	Breaking capacity I_{cn} (kA)	Order Code	Weight (kg/pc)	Packing (pc)
3P + NA (U_{Bmax} : 440 V~)					
SH203 T-C6NA	6	3	2CDS 233 103 R0064	0.5	3
SH203 T-C8NA	8		2CDS 233 103 R0084		
SH203 T-C10NA	10		2CDS 233 103 R0104		
SH203 T-C13NA	13		2CDS 233 103 R0134		
SH203 T-C16NA	16		2CDS 233 103 R0164		
SH203 T-C20NA	20		2CDS 233 103 R0204		
SH203 T-C25NA	25		2CDS 233 103 R0254		
SH203 T-C32NA	32		2CDS 233 103 R0324		
SH203 T-C40NA	40		2CDS 233 103 R0404		
4P (U_{Bmax} : 440 V~ 125 $V_{\overline{\cdots}}$ with 2 poles connected in series)					
SH204 T-C6	6	3	2CDS 234 001 R0064	0.5	3
SH204 T-C8	8		2CDS 234 001 R0084		
SH204 T-C10	10		2CDS 234 001 R0104		
SH204 T-C13	13		2CDS 234 001 R0134		
SH204 T-C16	16		2CDS 234 001 R0164		
SH204 T-C20	20		2CDS 234 001 R0204		
SH204 T-C25	25		2CDS 234 001 R0254		
SH204 T-C32	32		2CDS 234 001 R0324		
SH204 T-C40	40		2CDS 234 001 R0404		

MCB - SH200 L
Selection Tables

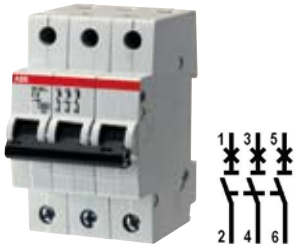


Applications: buildings, both residential and commercial

B characteristic: protection and control of the circuits against overloads and short-circuits; protection for people and big-length cables in TN and IT systems.

Type No.	Rated Current I_n (A)	Breaking capacity I_{cn} (kA)	Order Code	Weight (kg/pc)	Packing (pc)
1P (U_{Bmax} : 440 V~ 60 V⎓)					
SH201 L-B6	6	4.5	2CDS 241 001 R0065	0.125	12
SH201 L-B10	10		2CDS 241 001 R0105		
SH201 L-B13	13		2CDS 241 001 R0135		
SH201 L-B16	16		2CDS 241 001 R0165		
SH201 L-B20	20		2CDS 241 001 R0205		
SH201 L-B25	25		2CDS 241 001 R0255		
SH201 L-B32	32		2CDS 241 001 R0325		
SH201 L-B40	40		2CDS 241 001 R0405		
1P + NA (U_{Bmax} : 440 V~ 60 V⎓)					
SH201 L-B6NA	6	4.5	2CDS 241 103 R0065	0.25	6
SH201 L-B10NA	10		2CDS 241 103 R0105		
SH201 L-B13NA	13		2CDS 241 103 R0135		
SH201 L-B16NA	16		2CDS 241 103 R0165		
SH201 L-B20NA	20		2CDS 241 103 R0205		
SH201 L-B25NA	25		2CDS 241 103 R0255		
SH201 L-B32NA	32		2CDS 241 103 R0325		
SH201 L-B40NA	40		2CDS 241 103 R0405		
2P (U_{Bmax} : 440 V~ 125 V⎓ with 2 poles connected in series)					
SH202 L-B6	6	4.5	2CDS 242 001 R0065	0.25	6
SH202 L-B10	10		2CDS 242 001 R0105		
SH202 L-B13	13		2CDS 242 001 R0135		
SH202 L-B16	16		2CDS 242 001 R0165		
SH202 L-B20	20		2CDS 242 001 R0205		
SH202 L-B25	25		2CDS 242 001 R0255		
SH202 L-B32	32		2CDS 242 001 R0325		
SH202 L-B40	40		2CDS 242 001 R0405		
3P (U_{Bmax} : 440 V~)					
SH203 L-B6	6	4.5	2CDS 243 001 R0065	0.375	4
SH203 L-B10	10		2CDS 243 001 R0105		
SH203 L-B13	13		2CDS 243 001 R0135		
SH203 L-B16	16		2CDS 243 001 R0165		
SH203 L-B20	20		2CDS 243 001 R0205		
SH203 L-B25	25		2CDS 243 001 R0255		
SH203 L-B32	32		2CDS 243 001 R0325		
SH203 L-B40	40		2CDS 243 001 R0405		
3P + NA (U_{Bmax} : 440 V~)					
SH203 L-B6NA	6	4.5	2CDS 243 103 R0065	0.5	4
SH203 L-B10NA	10		2CDS 243 103 R0105		
SH203 L-B13NA	13		2CDS 243 103 R0135		
SH203 L-B16NA	16		2CDS 243 103 R0165		
SH203 L-B20NA	20		2CDS 243 103 R0205		
SH203 L-B25NA	25		2CDS 243 103 R0255		
SH203 L-B32NA	32		2CDS 243 103 R0325		
SH203 L-B40NA	40		2CDS 243 103 R0405		
4P (U_{Bmax} : 440 V~ 125 V⎓ with 2 poles connected in series)					
SH204 L-B6	6	4.5	2CDS 244 001 R0065	0.5	3
SH204 L-B10	10		2CDS 244 001 R0105		
SH204 L-B13	13		2CDS 244 001 R0135		
SH204 L-B16	16		2CDS 244 001 R0165		
SH204 L-B20	20		2CDS 244 001 R0205		
SH204 L-B25	25		2CDS 244 001 R0255		
SH204 L-B32	32		2CDS 244 001 R0325		
SH204 L-B40	40		2CDS 244 001 R0405		

MCB - SH200 L
Selection Tables



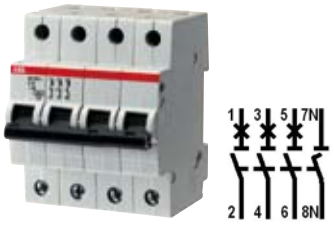
Applications: buildings, both residential and commercial

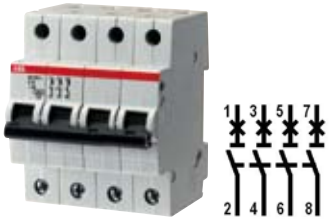
C characteristic: protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.

Type No.	Rated Current I_n (A)	Breaking capacity I_{cn} (kA)	Order Code	Weight (kg/pc)	Packing (pc)
1P (U_{Bmax} : 440 V~ 60 V⎓)					
SH201 L-C6	6	4.5	2CDS 241 001 R0064	0.125	12
SH201 L-C8	8		2CDS 241 001 R0084		
SH201 L-C10	10		2CDS 241 001 R0104		
SH201 L-C13	13		2CDS 241 001 R0134		
SH201 L-C16	16		2CDS 241 001 R0164		
SH201 L-C20	20		2CDS 241 001 R0204		
SH201 L-C25	25		2CDS 241 001 R0254		
SH201 L-C32	32		2CDS 241 001 R0324		
SH201 L-C40	40		2CDS 241 001 R0404		
1P + NA (U_{Bmax} : 440 V~ 60 V⎓)					
SH201 L-C6NA	6	4.5	2CDS 241 103 R0064	0.25	6
SH201 L-C8NA	8		2CDS 241 103 R0084		
SH201 L-C10NA	10		2CDS 241 103 R0104		
SH201 L-C13NA	13		2CDS 241 103 R0134		
SH201 L-C16NA	16		2CDS 241 103 R0164		
SH201 L-C20NA	20		2CDS 241 103 R0204		
SH201 L-C25NA	25		2CDS 241 103 R0254		
SH201 L-C32NA	32		2CDS 241 103 R0324		
SH201 L-C40NA	40		2CDS 241 103 R0404		
2P (U_{Bmax} : 440 V~ 125 V⎓ with 2 poles connected in series)					
SH202 L-C6	6	4.5	2CDS 242 001 R0064	0.25	6
SH202 L-C8	8		2CDS 242 001 R0084		
SH202 L-C10	10		2CDS 242 001 R0104		
SH202 L-C13	13		2CDS 242 001 R0134		
SH202 L-C16	16		2CDS 242 001 R0164		
SH202 L-C20	20		2CDS 242 001 R0204		
SH202 L-C25	25		2CDS 242 001 R0254		
SH202 L-C32	32		2CDS 242 001 R0324		
SH202 L-C40	40		2CDS 242 001 R0404		
3P (U_{Bmax} : 440 V~)					
SH203 L-C6	6	4.5	2CDS 243 001 R0064	0.375	4
SH203 L-C8	8		2CDS 243 001 R0084		
SH203 L-C10	10		2CDS 243 001 R0104		
SH203 L-C13	13		2CDS 243 001 R0134		
SH203 L-C16	16		2CDS 243 001 R0164		
SH203 L-C20	20		2CDS 243 001 R0204		
SH203 L-C25	25		2CDS 243 001 R0254		
SH203 L-C32	32		2CDS 243 001 R0324		
SH203 L-C40	40		2CDS 243 001 R0404		

MCB - SH200 L

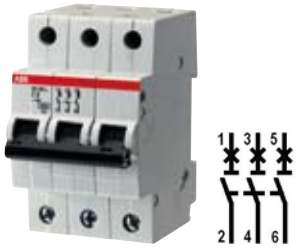
Selection Tables





Type No.	Rated Current I_n (A)	Breaking capacity I_{cn} (kA)	Order Code	Weight (kg/pc)	Packing (pc)
3P + NA (U_{Bmax} : 440 V~)					
SH203 L-C6NA	6	4.5	2CDS 243 103 R0064	0.5	3
SH203 L-C8NA	8		2CDS 243 103 R0084		
SH203 L-C10NA	10		2CDS 243 103 R0104		
SH203 L-C13NA	13		2CDS 243 103 R0134		
SH203 L-C16NA	16		2CDS 243 103 R0164		
SH203 L-C20NA	20		2CDS 243 103 R0204		
SH203 L-C25NA	25		2CDS 243 103 R0254		
SH203 L-C32NA	32		2CDS 243 103 R0324		
SH203 L-C40NA	40		2CDS 243 103 R0404		
4P (U_{Bmax} : 440 V~ 125 $V_{\overline{\cdots}}$ with 2 poles connected in series)					
SH204 L-C6	6	4.5	2CDS 244 001 R0064	0.5	3
SH204 L-C8	8		2CDS 244 001 R0084		
SH204 L-C10	10		2CDS 244 001 R0104		
SH204 L-C13	13		2CDS 244 001 R0134		
SH204 L-C16	16		2CDS 244 001 R0164		
SH204 L-C20	20		2CDS 244 001 R0204		
SH204 L-C25	25		2CDS 244 001 R0254		
SH204 L-C32	32		2CDS 244 001 R0324		
SH204 L-C40	40		2CDS 244 001 R0404		

MCB - SH200
Selection Tables

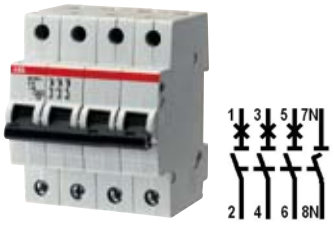


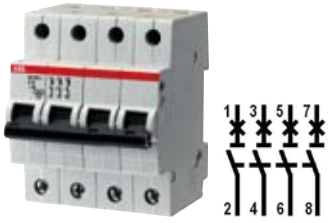
Applications: buildings, both residential and commercial

B characteristic: protection and control of the circuits against overloads and short-circuits; protection for people and big-length cables in TN and IT systems.

Type No.	Rated Current I_n (A)	Breaking capacity I_{cn} (kA)	Order Code	Weight (kg/pc)	Packing (pc)
1P (U_{Bmax} : 230 V~ 60 V⎓)					
SH201 B6	6	6	2CDS 211 001 R0065	0.125	12
SH201 B10	10		2CDS 211 001 R0105		
SH201 B13	13		2CDS 211 001 R0135		
SH201 B16	16		2CDS 211 001 R0165		
SH201 B20	20		2CDS 211 001 R0205		
SH201 B25	25		2CDS 211 001 R0255		
SH201 B32	32		2CDS 211 001 R0325		
SH201 B40	40		2CDS 211 001 R0405		
SH201 B50	50		2CDS 211 001 R0505		
SH201 B63	63		2CDS 211 001 R0635		
1P + NA (U_{Bmax} : 230 V~ 60 V⎓)					
SH201 B6NA	6	6	2CDS 211 103 R0065	0.25	6
SH201 B10NA	10		2CDS 211 103 R0105		
SH201 B13NA	13		2CDS 211 103 R0135		
SH201 B16NA	16		2CDS 211 103 R0165		
SH201 B20NA	20		2CDS 211 103 R0205		
SH201 B25NA	25		2CDS 211 103 R0255		
SH201 B32NA	32		2CDS 211 103 R0325		
SH201 B40NA	40		2CDS 211 103 R0405		
SH201 B50NA	50		2CDS 211 103 R0505		
SH201 B63NA	63		2CDS 211 103 R0635		
2P (U_{Bmax} : 440 V~ 125 V⎓ with 2 poles connected in series)					
SH202 B6	6	6	2CDS 212 001 R0065	0.25	6
SH202 B10	10		2CDS 212 001 R0105		
SH202 B13	13		2CDS 212 001 R0135		
SH202 B16	16		2CDS 212 001 R0165		
SH202 B20	20		2CDS 212 001 R0205		
SH202 B25	25		2CDS 212 001 R0255		
SH202 B32	32		2CDS 212 001 R0325		
SH202 B40	40		2CDS 212 001 R0405		
SH202 B50	50		2CDS 212 001 R0505		
SH202 B63	63		2CDS 212 001 R0635		
3P (U_{Bmax} : 440 V~)					
SH203 B6	6	6	2CDS 213 001 R0065	0.375	4
SH203 B10	10		2CDS 213 001 R0105		
SH203 B13	13		2CDS 213 001 R0135		
SH203 B16	16		2CDS 213 001 R0165		
SH203 B20	20		2CDS 213 001 R0205		
SH203 B25	25		2CDS 213 001 R0255		
SH203 B32	32		2CDS 213 001 R0325		
SH203 B40	40		2CDS 213 001 R0405		
SH203 B50	50		2CDS 213 001 R0505		
SH203 B63	63		2CDS 213 001 R0635		

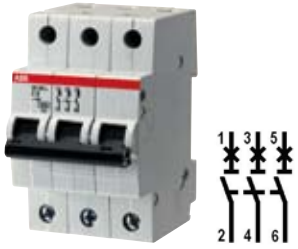
MCB - SH200
Selection Tables





Type No.	Rated Current I_n (A)	Breaking capacity I_{cn} (kA)	Order Code	Weight (kg/pc)	Packing (pc)
3P + NA (U_{Bmax} : 440 V~)					
SH203 B6NA	6	6	2CDS 213 103 R0065	0.5	3
SH203 B10NA	10		2CDS 213 103 R0105		
SH203 B13NA	13		2CDS 213 103 R0135		
SH203 B16NA	16		2CDS 213 103 R0165		
SH203 B20NA	20		2CDS 213 103 R0205		
SH203 B25NA	25		2CDS 213 103 R0255		
SH203 B32NA	32		2CDS 213 103 R0325		
SH203 B40NA	40		2CDS 213 103 R0405		
SH203 B50NA	50		2CDS 213 103 R0505		
SH203 B63NA	63		2CDS 213 103 R0635		
4P (U_{Bmax} : 440 V~ 125 $V_{\overline{\cdots}}$ with 2 poles connected in series)					
SH204 B6	6	6	2CDS 214 001 R0065	0.5	3
SH204 B10	10		2CDS 214 001 R0105		
SH204 B13	13		2CDS 214 001 R0135		
SH204 B16	16		2CDS 214 001 R0165		
SH204 B20	20		2CDS 214 001 R0205		
SH204 B25	25		2CDS 214 001 R0255		
SH204 B32	32		2CDS 214 001 R0325		
SH204 B40	40		2CDS 214 001 R0405		
SH204 B50	50		2CDS 214 001 R0505		
SH204 B63	63		2CDS 214 001 R0635		

MCB - SH200
Selection Tables

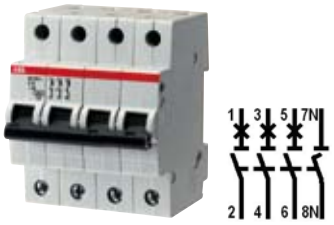


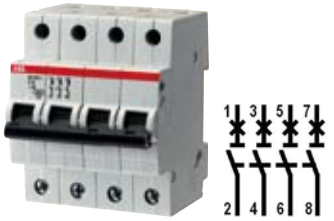
Applications: buildings, both residential and commercial

C characteristic: protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.

Type No.	Rated Current In (A)	Breaking capacity I_{cn} (kA)	Order Code	Weight (kg/pc)	Packing (pc)
1P (U_{Bmax} : 230 V~ 60 V⎓)					
SH201 C6	6		2CDS 211 001 R0064		
SH201 C8	8		2CDS 211 001 R0084		
SH201 C10	10		2CDS 211 001 R0104		
SH201 C13	13		2CDS 211 001 R0134		
SH201 C16	16		2CDS 211 001 R0164		
SH201 C20	20	6	2CDS 211 001 R0204	0.125	12
SH201 C25	25		2CDS 211 001 R0254		
SH201 C32	32		2CDS 211 001 R0324		
SH201 C40	40		2CDS 211 001 R0404		
SH201 C50	50		2CDS 211 001 R0504		
SH201 C63	63		2CDS 211 001 R0634		
1P + NA (U_{Bmax} : 230 V~ 60 V⎓)					
SH201 C6NA	6		2CDS 211 103 R0064		
SH201 C8NA	8		2CDS 211 103 R0084		
SH201 C10NA	10		2CDS 211 103 R0104		
SH201 C13NA	13		2CDS 211 103 R0134		
SH201 C16NA	16		2CDS 211 103 R0164		
SH201 C20NA	20	6	2CDS 211 103 R0204	0.25	6
SH201 C25NA	25		2CDS 211 103 R0254		
SH201 C32NA	32		2CDS 211 103 R0324		
SH201 C40NA	40		2CDS 211 103 R0404		
SH201 C50NA	50		2CDS 211 103 R0504		
SH201 C63NA	63		2CDS 211 103 R0634		
2P (U_{Bmax} : 440 V~ 125 V⎓ with 2 poles connected in series)					
SH202 C6	6		2CDS 212 001 R0064		
SH202 C8	8		2CDS 212 001 R0084		
SH202 C10	10		2CDS 212 001 R0104		
SH202 C13	13		2CDS 212 001 R0134		
SH202 C16	16	6	2CDS 212 001 R0164	0.25	6
SH202 C20	20		2CDS 212 001 R0204		
SH202 C25	25		2CDS 212 001 R0254		
SH202 C32	32		2CDS 212 001 R0324		
SH202 C40	40		2CDS 212 001 R0404		
SH202 C50	50		2CDS 212 001 R0504		
SH202 C63	63		2CDS 212 001 R0634		
3P (U_{Bmax} : 440 V~)					
SH203 C6	6		2CDS 213 001 R0064		
SH203 C8	8		2CDS 213 001 R0084		
SH203 C10	10		2CDS 213 001 R0104		
SH203 C13	13		2CDS 213 001 R0134		
SH203 C16	16		2CDS 213 001 R0164		
SH203 C20	20	6	2CDS 213 001 R0204	0.375	4
SH203 C25	25		2CDS 213 001 R0254		
SH203 C32	32		2CDS 213 001 R0324		
SH203 C40	40		2CDS 213 001 R0404		
SH203 C50	50		2CDS 213 001 R0504		
SH203 C63	63		2CDS 213 001 R0634		

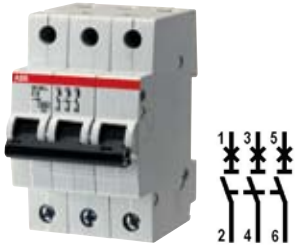
MCB - SH200
Selection Tables





Type No.	Rated Current I_n (A)	Breaking capacity I_{cn} (kA)	Order Code	Weight (kg/pc)	Packing (pc)
3P + NA (U_{Bmax} : 440 V~)					
SH203 C6NA	6	6	2CDS 213 103 R0064	0.5	3
SH203 C8NA	8		2CDS 213 103 R0084		
SH203 C10NA	10		2CDS 213 103 R0104		
SH203 C13NA	13		2CDS 213 103 R0134		
SH203 C16NA	16		2CDS 213 103 R0164		
SH203 C20NA	20		2CDS 213 103 R0204		
SH203 C25NA	25		2CDS 213 103 R0254		
SH203 C32NA	32		2CDS 213 103 R0324		
SH203 C40NA	40		2CDS 213 103 R0404		
SH203 C50NA	50		2CDS 213 103 R0504		
SH203 C63NA	63		2CDS 213 103 R0634		
4P (U_{Bmax} : 440 V~ 125 $V_{\overline{\cdots}}$ with 2 poles connected in series)					
SH204 C6	6	6	2CDS 214 001 R0064	0.5	3
SH204 C8	8		2CDS 214 001 R0084		
SH204 C10	10		2CDS 214 001 R0104		
SH204 C13	13		2CDS 214 001 R0134		
SH204 C16	16		2CDS 214 001 R0164		
SH204 C20	20		2CDS 214 001 R0204		
SH204 C25	25		2CDS 214 001 R0254		
SH204 C32	32		2CDS 214 001 R0324		
SH204 C40	40		2CDS 214 001 R0404		
SH204 C50	50		2CDS 214 001 R0504		
SH204 C63	63		2CDS 214 001 R0634		

MCB - SH200
Selection Tables

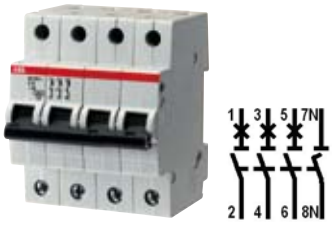


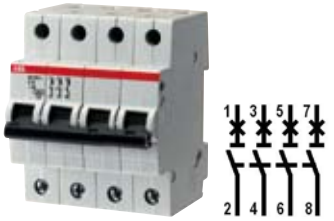
Applications: buildings, both residential and commercial

D characteristic: protection and control of the circuits against overloads and short-circuits; protection for people and big-length cables in TN and IT systems.

Type No.	Rated Current I_n (A)	Breaking capacity I_{cn} (kA)	Order Code	Weight (kg/pc)	Packing (pc)
1P (U_{Bmax} : 440 V~ 60 $V_{\ldots}$)					
SH201 D6	6		2CDS 211 001 R0061		
SH201 D8	8		2CDS 211 001 R0081		
SH201 D10	10		2CDS 211 001 R0101		
SH201 D13	13		2CDS 211 001 R0131		
SH201 D16	16		2CDS 211 001 R0161		
SH201 D20	20	6	2CDS 211 001 R0201	0.125	12
SH201 D25	25		2CDS 211 001 R0251		
SH201 D32	32		2CDS 211 001 R0321		
SH201 D40	40		2CDS 211 001 R0401		
SH201 D50	50		2CDS 211 001 R0501		
SH201 D63	63		2CDS 211 001 R0631		
1P + NA (U_{Bmax} : 440 V~ 60 $V_{\ldots}$)					
SH201 D6NA	6		2CDS 211 103 R0061		
SH201 D8NA	8		2CDS 211 103 R0081		
SH201 D10NA	10		2CDS 211 103 R0101		
SH201 D13NA	13		2CDS 211 103 R0131		
SH201 D16NA	16		2CDS 211 103 R0161		
SH201 D20NA	20	6	2CDS 211 103 R0201	0.25	6
SH201 D25NA	25		2CDS 211 103 R0251		
SH201 D32NA	32		2CDS 211 103 R0321		
SH201 D40NA	40		2CDS 211 103 R0401		
SH201 D50NA	50		2CDS 211 103 R0501		
SH201 D63NA	63		2CDS 211 103 R0631		
2P (U_{Bmax} : 440 V~ 125 $V_{\ldots}$ with 2 poles connected in series)					
SH202 D6	6		2CDS 212 001 R0061		
SH202 D8	8		2CDS 212 001 R0081		
SH202 D10	10		2CDS 212 001 R0101		
SH202 D13	13		2CDS 212 001 R0131		
SH202 D16	16		2CDS 212 001 R0161		
SH202 D20	20	6	2CDS 212 001 R0201	0.25	6
SH202 D25	25		2CDS 212 001 R0251		
SH202 D32	32		2CDS 212 001 R0321		
SH202 D40	40		2CDS 212 001 R0401		
SH202 D50	50		2CDS 212 001 R0501		
SH202 D63	63		2CDS 212 001 R0631		
3P (U_{Bmax} : 440 V~)					
SH203 D6	6		2CDS 213 001 R0061		
SH203 D8	8		2CDS 213 001 R0081		
SH203 D10	10		2CDS 213 001 R0101		
SH203 D13	13		2CDS 213 001 R0131		
SH203 D16	16		2CDS 213 001 R0161		
SH203 D20	20	6	2CDS 213 001 R0201	0.375	4
SH203 D25	25		2CDS 213 001 R0251		
SH203 D32	32		2CDS 213 001 R0321		
SH203 D40	40		2CDS 213 001 R0401		
SH203 D50	50		2CDS 213 001 R0501		
SH203 D63	63		2CDS 213 001 R0631		

MCB - SH200
Selection Tables

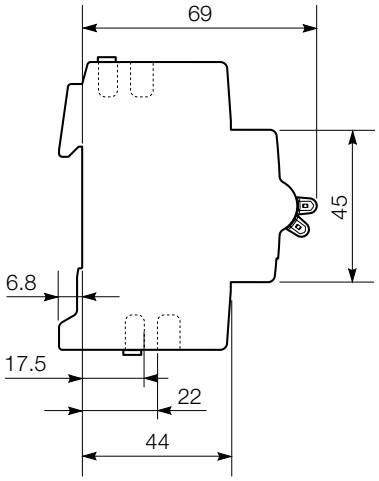


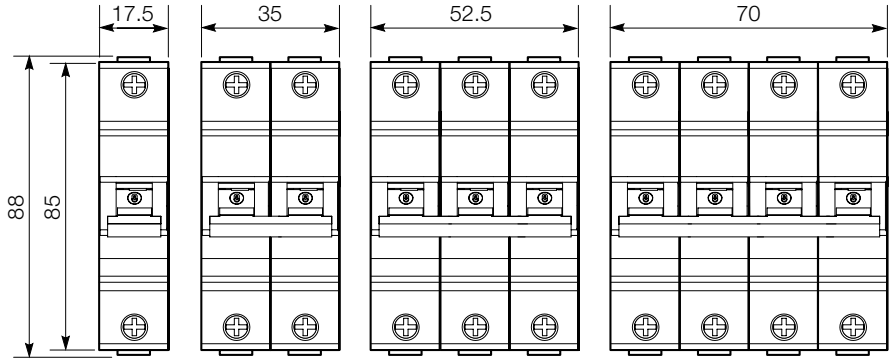


Type No.	Rated Current I_n (A)	Breaking capacity I_{cn} (kA)	Order Code	Weight (kg/pc)	Packing (pc)
3P + NA (U_{Bmax} : 440 V~)					
SH203 D6NA	6	6	2CDS 213 103 R0061	0.5	3
SH203 D8NA	8		2CDS 213 103 R0081		
SH203 D10NA	10		2CDS 213 103 R0101		
SH203 D13NA	13		2CDS 213 103 R0131		
SH203 D16NA	16		2CDS 213 103 R0161		
SH203 D20NA	20		2CDS 213 103 R0201		
SH203 D25NA	25		2CDS 213 103 R0251		
SH203 D32NA	32		2CDS 213 103 R0321		
SH203 D40NA	40		2CDS 213 103 R0401		
SH203 D50NA	50		2CDS 213 103 R0501		
SH203 D63NA	63		2CDS 213 103 R0631		
4P (U_{Bmax} : 440 V~ 125 $V_{\overline{\ldots}}$ with 2 poles connected in series)					
SH204 D6	6	6	2CDS 214 001 R0061	0.5	3
SH204 D8	8		2CDS 214 001 R0081		
SH204 D10	10		2CDS 214 001 R0101		
SH204 D13	13		2CDS 214 001 R0131		
SH204 D16	16		2CDS 214 001 R0161		
SH204 D20	20		2CDS 214 001 R0201		
SH204 D25	25		2CDS 214 001 R0251		
SH204 D32	32		2CDS 214 001 R0321		
SH204 D40	40		2CDS 214 001 R0401		
SH204 D50	50		2CDS 214 001 R0501		
SH204 D63	63		2CDS 214 001 R0631		

MCB - SH200 T SH200 L SH200

dimensions (mm)





1P 2P (1P + NA) 3P 4P (3P + NA)

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