Technical catalog

Compact Home

2CSC400003B0202

Summary

The ABB Line Protection Devices quality system is conforming with the ISO 9001 *Vision 2000* 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.

Compact Home

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

- IEC/EN 61008 (RCCBs)
- IEC/EN 61009 (RCBOs)
- IEC/EN 60898 (MCBs)
- IEC/EN 60947-3 (Switches)
- IEC/EN 60669-1 (Dimmers)
- IEC/EN 61643-11 (SPDs)
- IEC/EN 60730-1 (Timers)
- IEC/EN 61558-1-2-8 (Transformers)
- IEC/EN 60439-1 (Busbars)

They are also conforming to the following EC directives:

- Low Voltage Directives (LVD) no. 73/23 EEC
- Electromagnetic Compatibility Directive (EMC) no.89/336 EEC and 92/31 EEC

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.

ABB Compact Home RCDs also obtained the following national and international approvals:

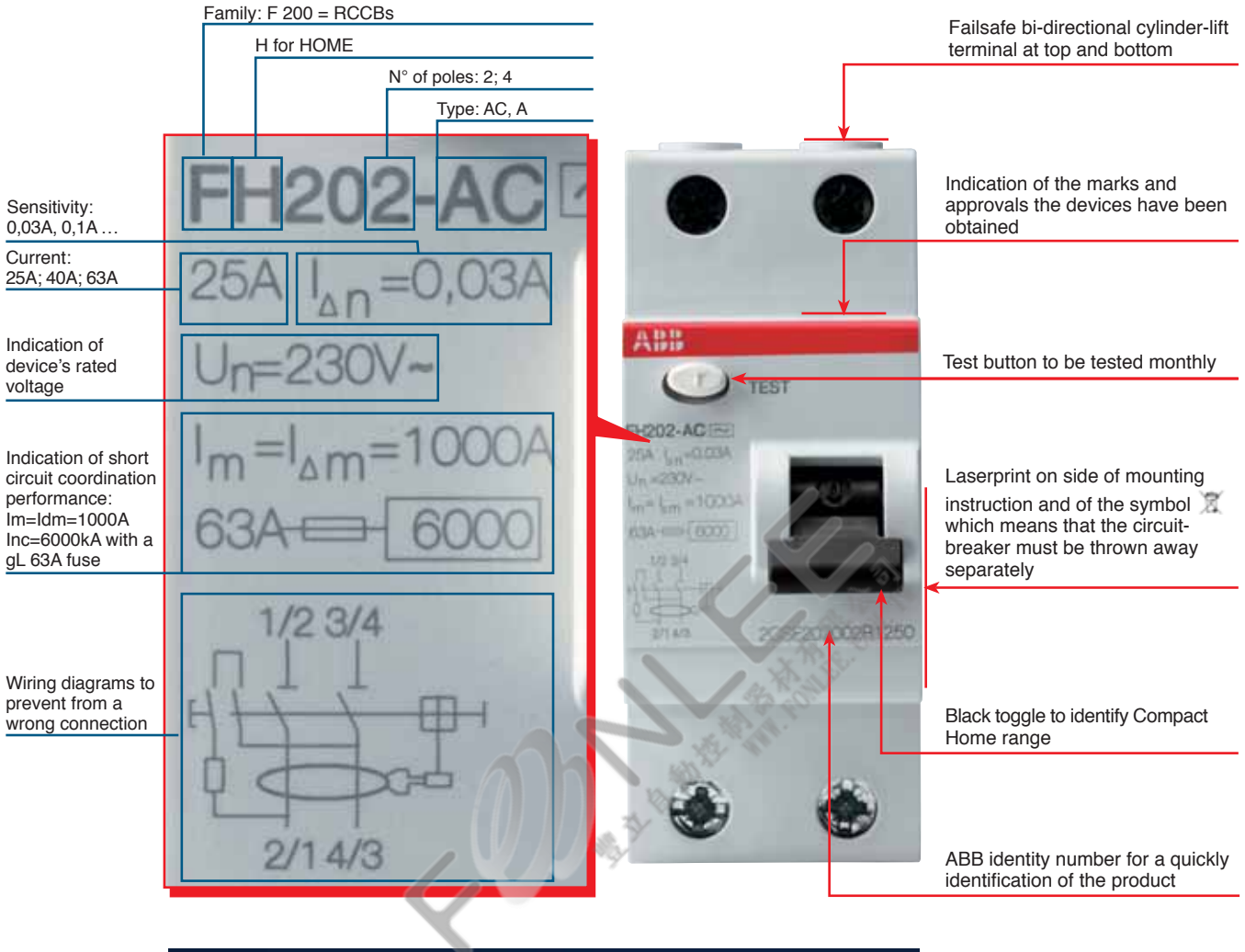
AENOR- ES APCER- PT SIRIM- MY

LCIE- FR GOST- RU TICKMARK- AU

CCC- CN SABS - ZA PSB - SG

Thanks to these approvals, the devices can be used without restriction as devices for the world market.

1



for more information about this products, see the technical catalogue

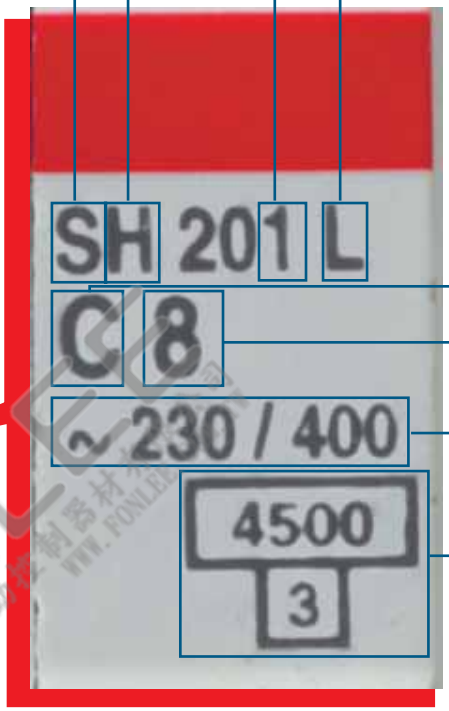
Cage terminals up and bottom

Family: S 200 = MCBs

H for HOME

N° of poles:
1; 1+N; 2; 3; 3+N; 4

Breaking capacities:
T=3kA, L=4.5kA, no-one=6kA



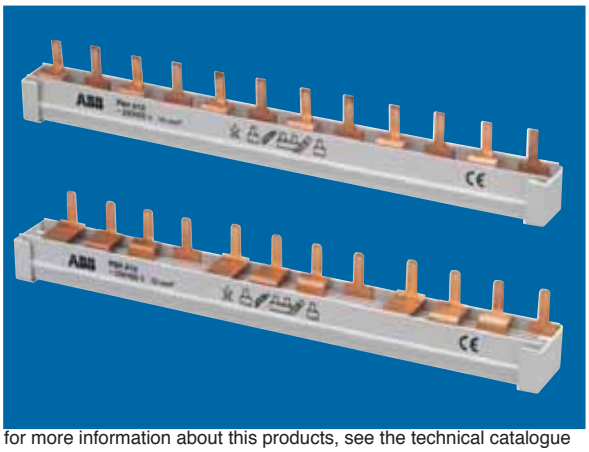
Characteristic: B, C

Rated current:
6A; 10A; ... 63A

Indication of MCB rat
voltage

Indication of MCB
breaking capacity an
limitation class

Wiring diagrams to prevent wrong connection on all pole versions



for more information about this products, see the technical catalogue

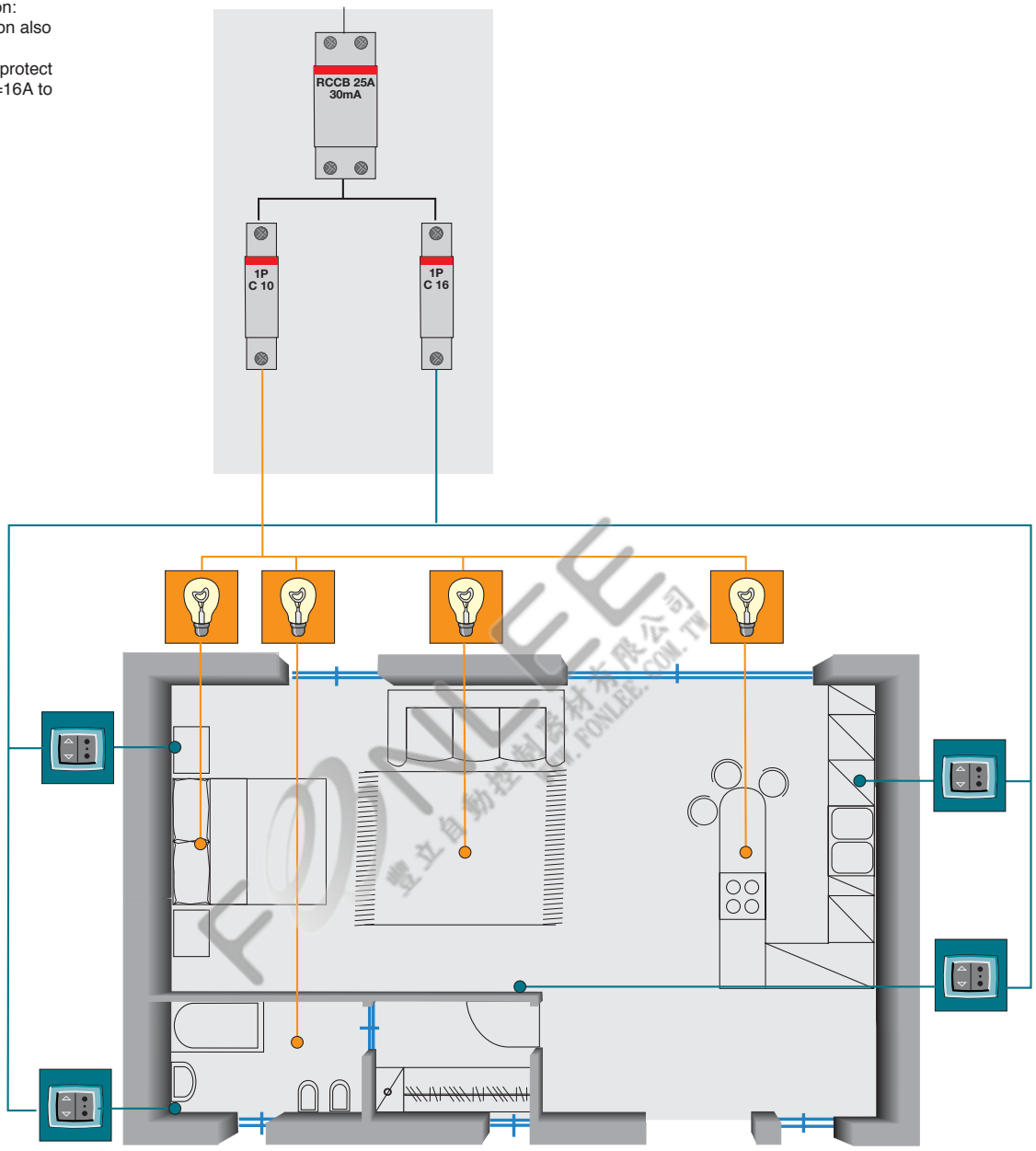
Application sheets

Index

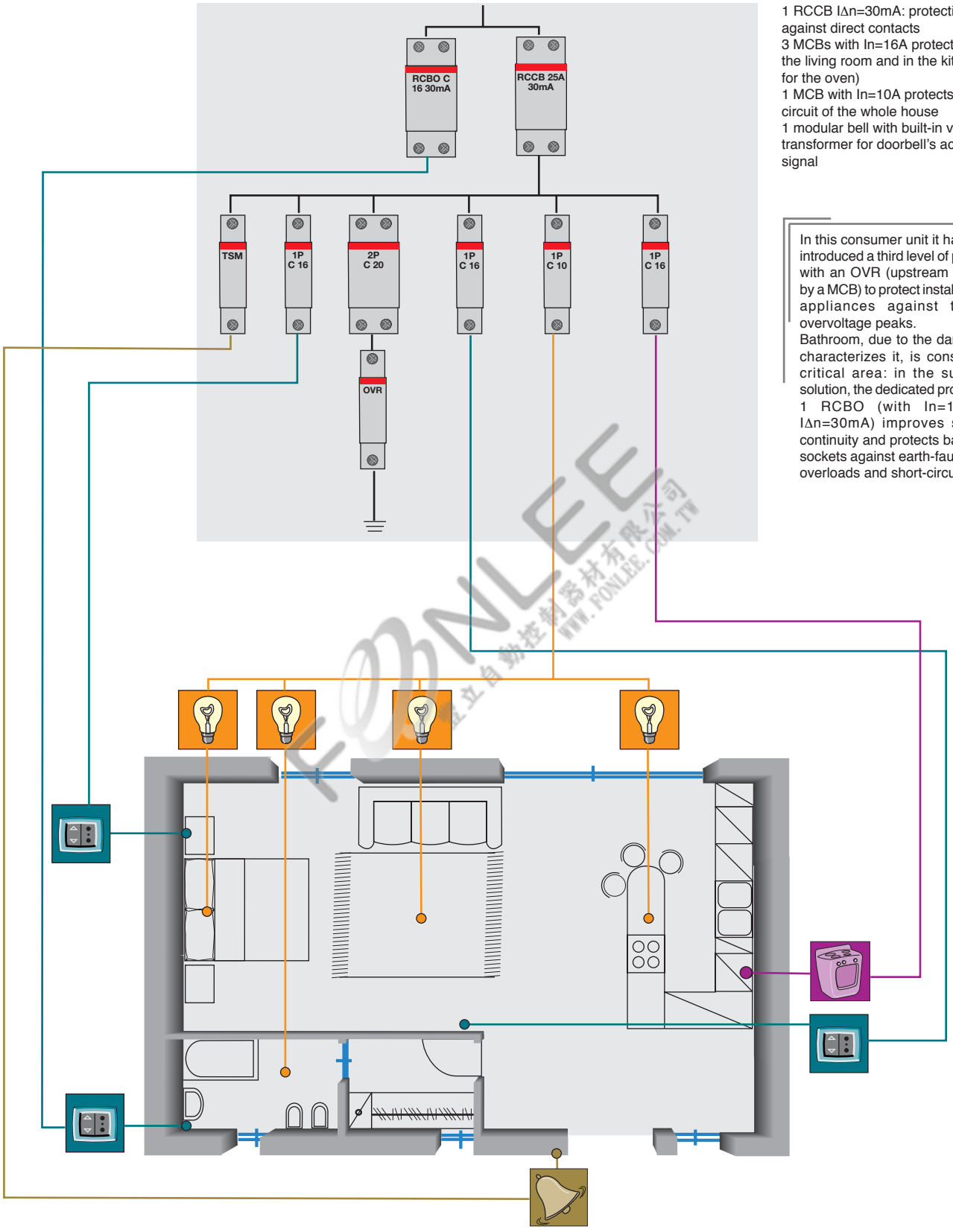
Application sheets

Basic solution for consumer units installed in a little flat (<35 m²)

The simplest possible solution:
1 RCCB IΔn=30mA: protection also against direct contacts
2 MCBs: one with In=10A to protect lights circuit and one with In=16A to protect sockets circuit



Advanced solution for consumer units installed in a little flat (<35 m²)



1 RCCB IΔn=30mA: protection also against direct contacts
3 MCBs with In=16A protect sockets in the living room and in the kitchen (e.g. for the oven)
1 MCB with In=10A protects lights circuit of the whole house
1 modular bell with built-in voltage transformer for doorbell's acoustic signal

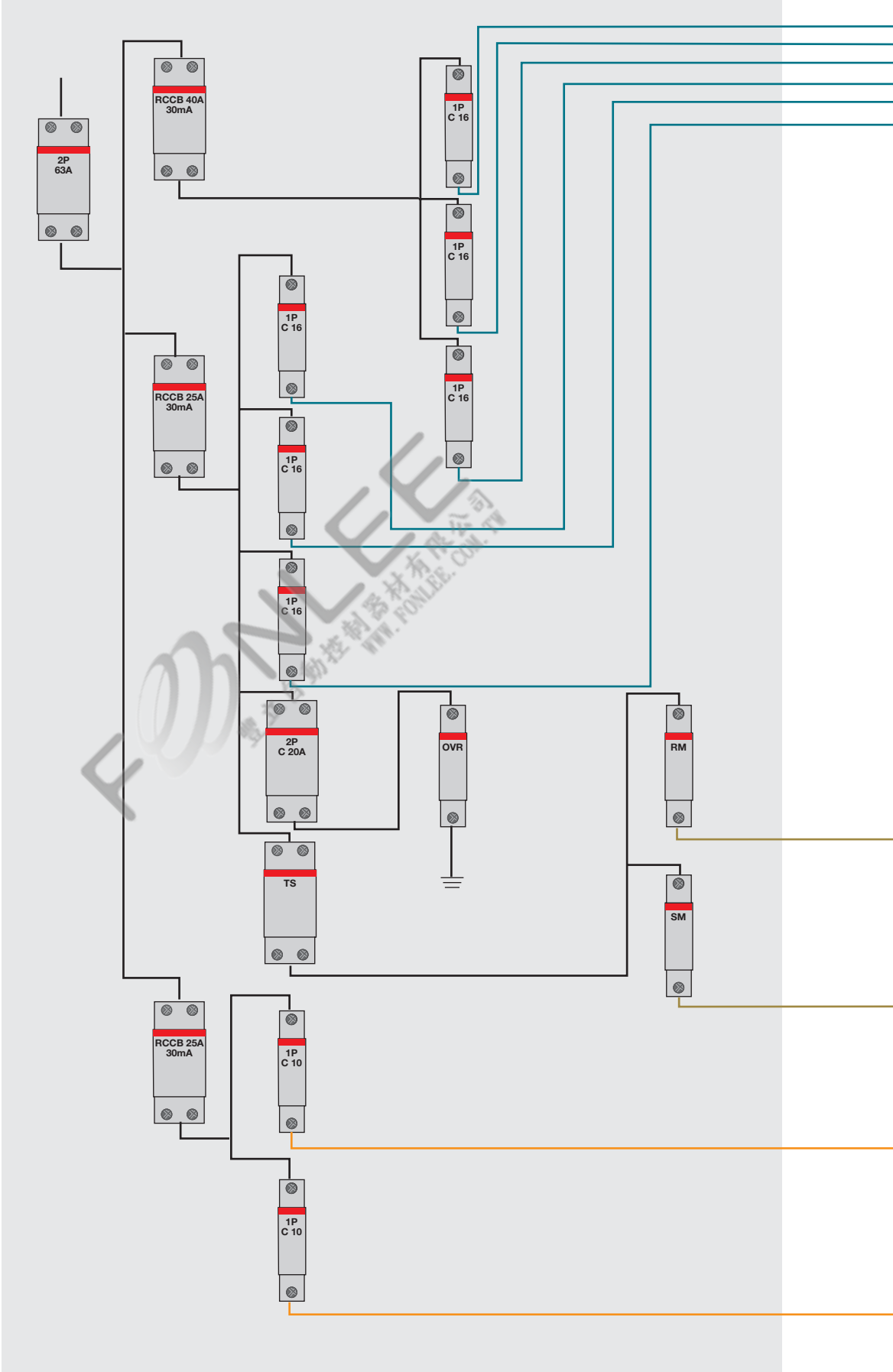
In this consumer unit it has been introduced a third level of protection with an OVR (upstream protected by a MCB) to protect installation and appliances against transient overvoltage peaks.
Bathroom, due to the damp which characterizes it, is considered a critical area: in the suggested solution, the dedicated protection of 1 RCBO (with In=16A and IΔn=30mA) improves service's continuity and protects bathroom's sockets against earth-fault current, overloads and short-circuits.

Application sheets

Basic solution for consumer units installed in a big flat (between 35 and 100 m^2)

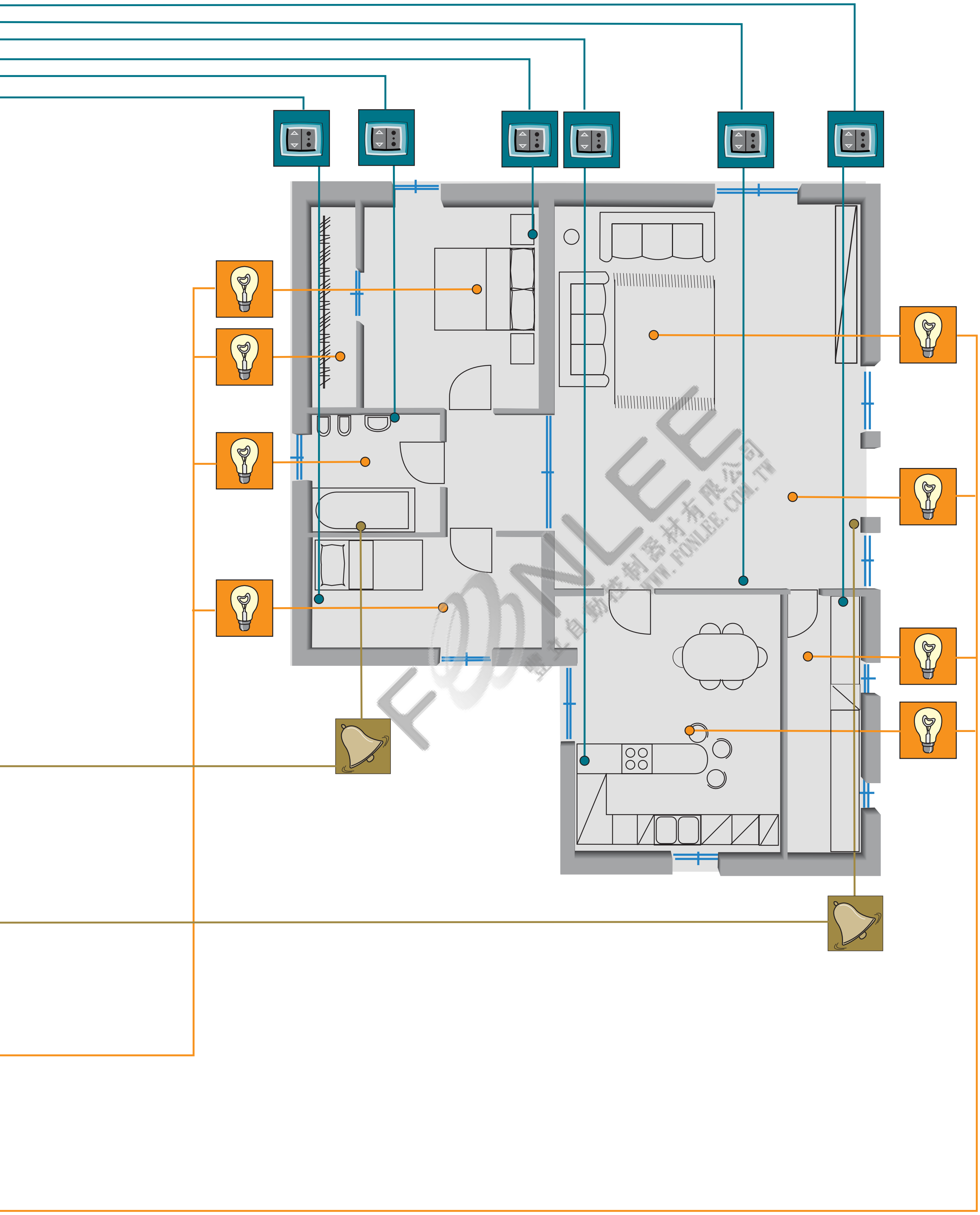
1 MCB used as main switch of the consumer unit
3 RCCBs: one with In=40A protects sockets circuit of the living room, kitchen and laundry-room and two with In=25A protect respectively sockets circuit of the bedrooms and bathroom and lights circuit of the whole house
2 MCBs In=10A protect lights circuits of bedrooms and bathroom separately from lights circuits of the rest of the house
6 MCBs In=16A (3 per RCCB) protect sockets
1 OVR protects against transient overvoltage peaks

In this consumer unit has been introduced some typical function in a modular shape: a voltage transformer (TS) supplies a bell (SM) for doorbell's acoustic signal and a buzzer (RM) for emergency acoustic signal in the bathroom.



Application sheets

Basic solution for consumer units installed in a big flat (between 35 and 100 m²)

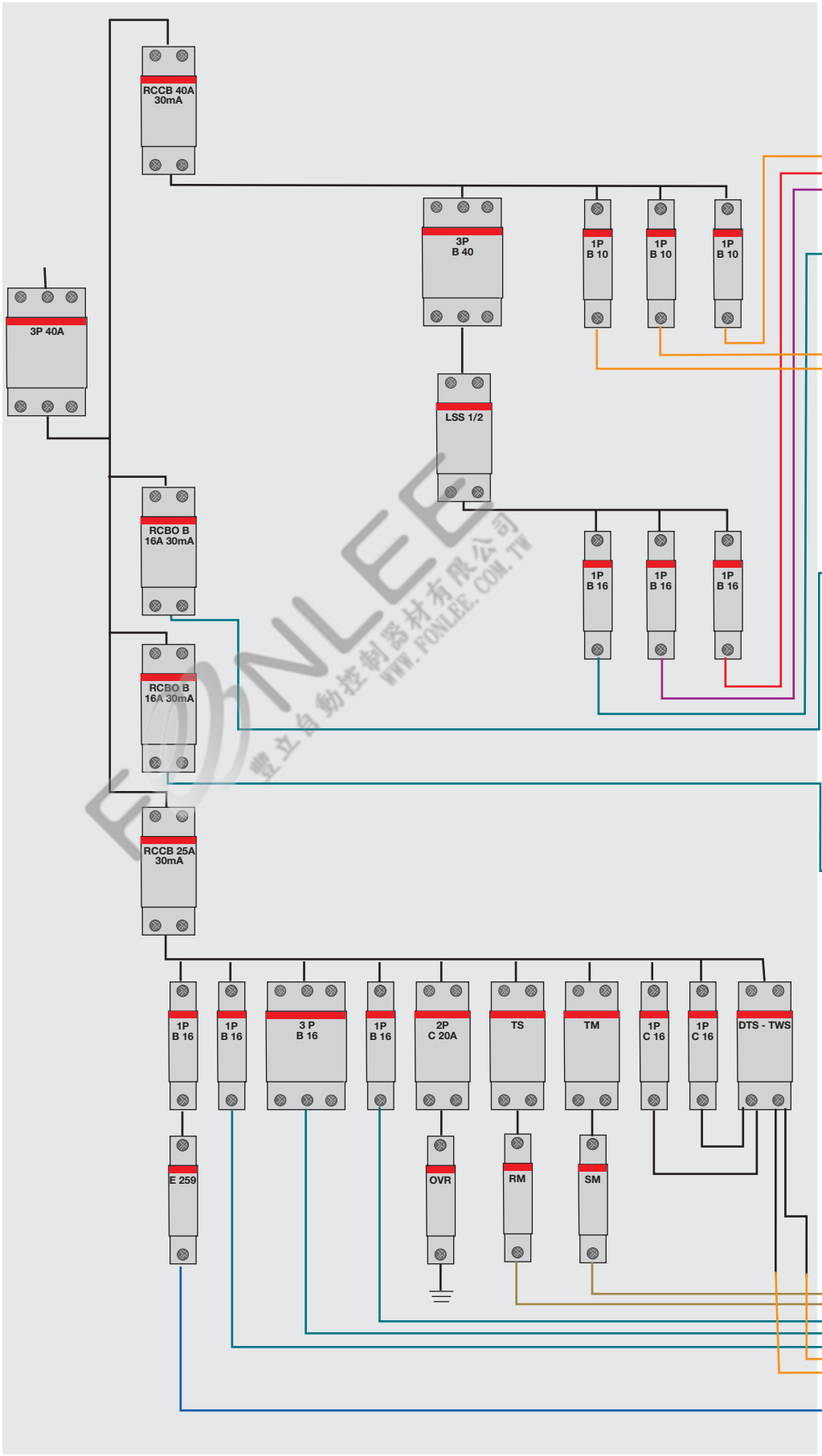


Application sheets

Advanced solution for consumer units installed in a big flat (between 35 and 100 m^2)

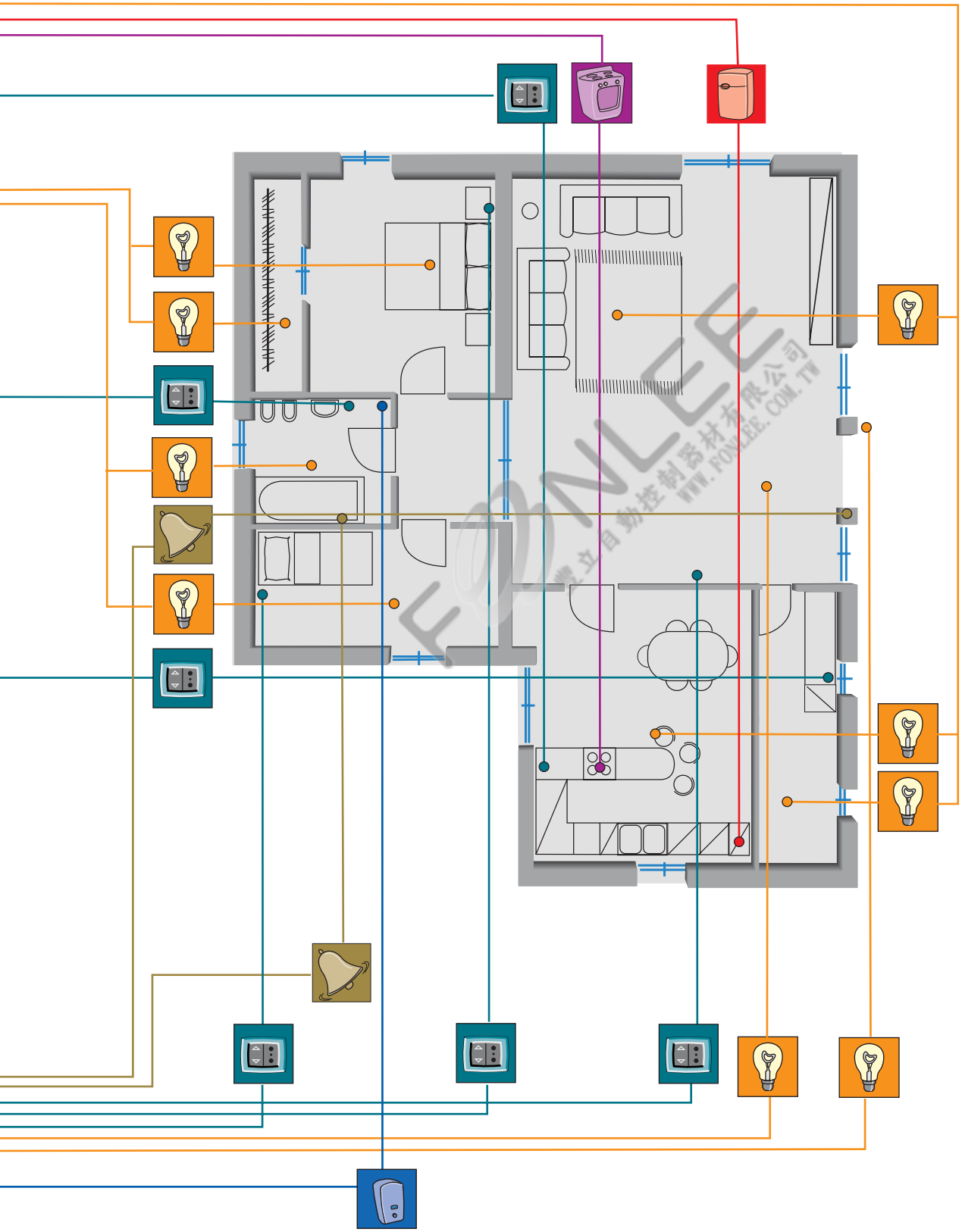
1 MCB used as main switch of the consumer unit
2 RCCBs: one with In=40A protects sockets circuit and electric household appliances in the kitchen and one with In=25A protects remaining sockets and all the other devices
2 RCBOs protect separately sockets circuits of the bathroom and of the laundry
10 MCBs In=16A or In=10A protect sockets and lights circuits of the house
1 OVR protects against transient overvoltage peaks
1 modular bell with built-in voltage transformer for doorbell's acoustic signal
1 LSS1/2 for load management

In this consumer unit a DTS-TWS (time switch + twilight switch) allows the time programming of the external and entrance lights in relation to the environmental light level. One E 259 (installation relay), equipped with contact position indicator, allows the manual control of the boiler in the bathroom.



Application sheets

Advanced solution for consumer units installed in a big flat (between 35 and 100 m²)

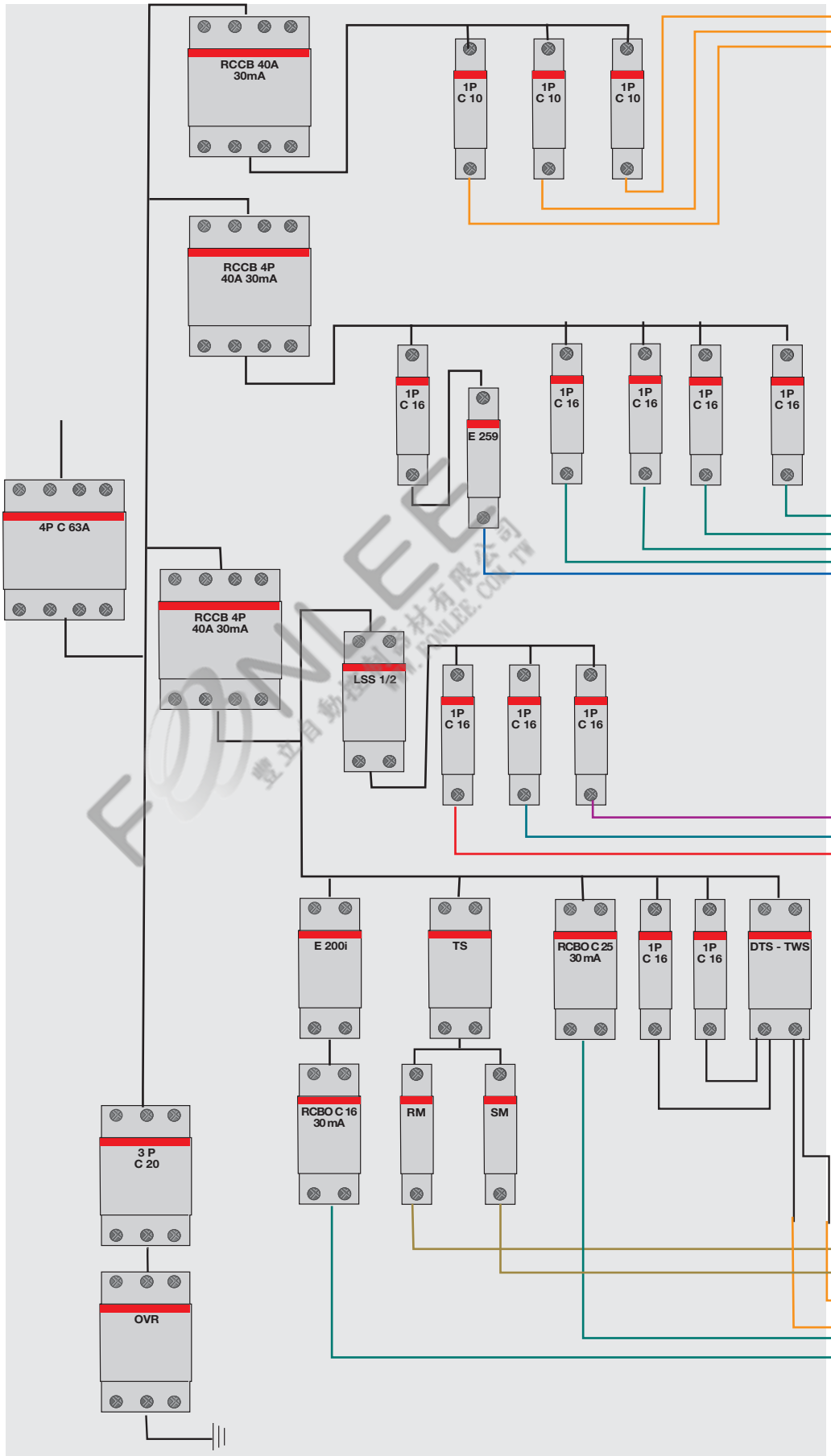


Application sheets

Basic solution for consumer units installed in an indipendent house/villa (>100 m²)

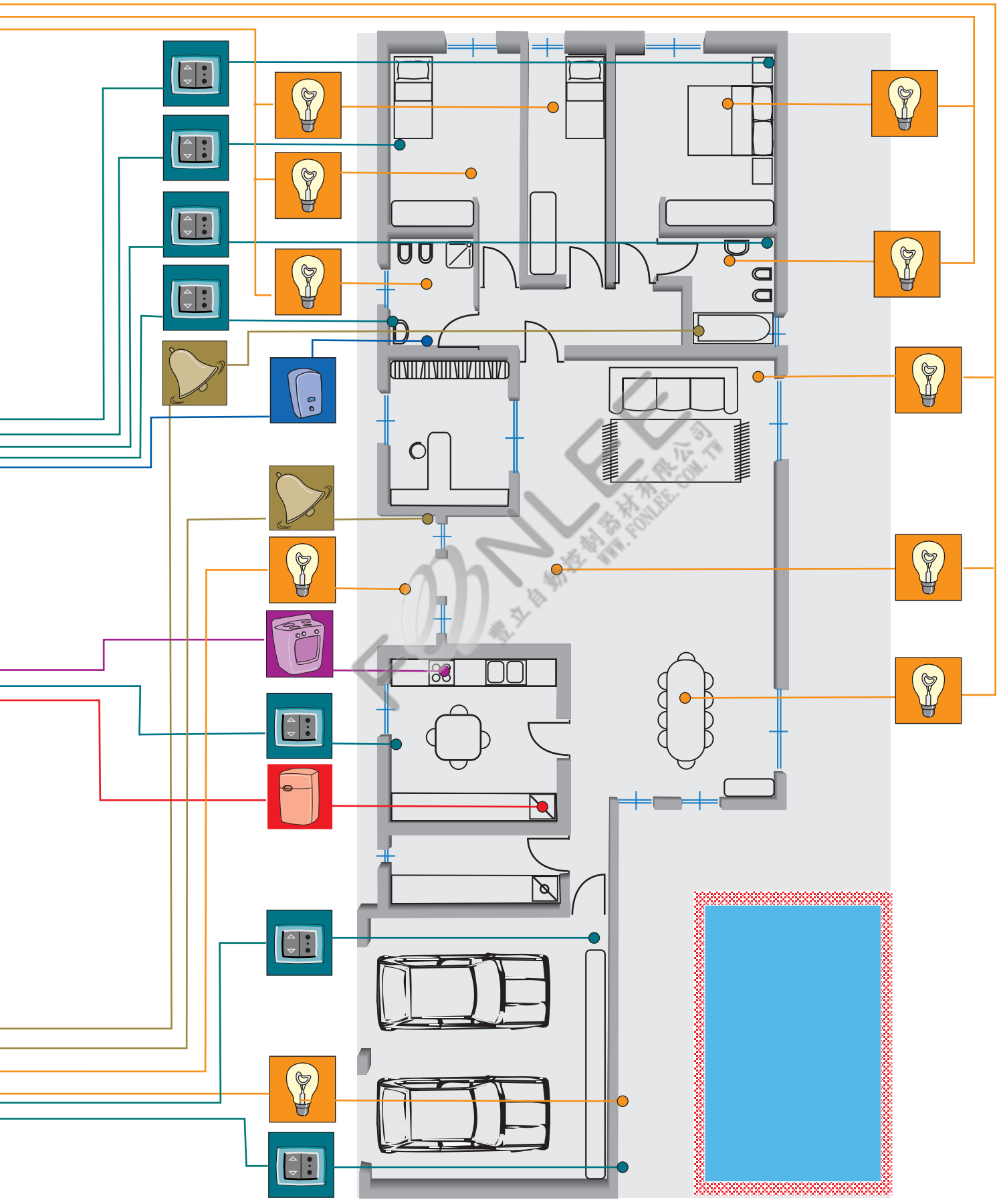
1 MCB used as main switch of the consumer unit
3 RCCBs with In=40A protect sockets and lights circuits of the house
2 RCBOs protect separately sockets in the garage and in the swimming pool
13 MCBs In=16A or In=10A protect sockets and lights circuits of the house
1 OVR protects against transient overvoltage peaks
1 modular bell and 1 buzzer for acoustic signals
1 DTS-TWS for lights time programming
1 E 259 for manual controlling of the boiler

In this consumer unit the E 200i is used as main disconnecting means of the external circuit (which, for example, can be used for the sockets or the pump of the swimming pool, always turned off during the winter). The LSS1/2 is a load shedding switch: it avoids the tripping of the main circuit-breaker through switching-off in sequence of maximum two not primary loads when the preset threshold is exceeded (it could be useful to set refrigerator as primary load to warrant service's continuity).



Application sheets

Basic solution for consumer units installed in an indipendent house/villa (>100 m²)

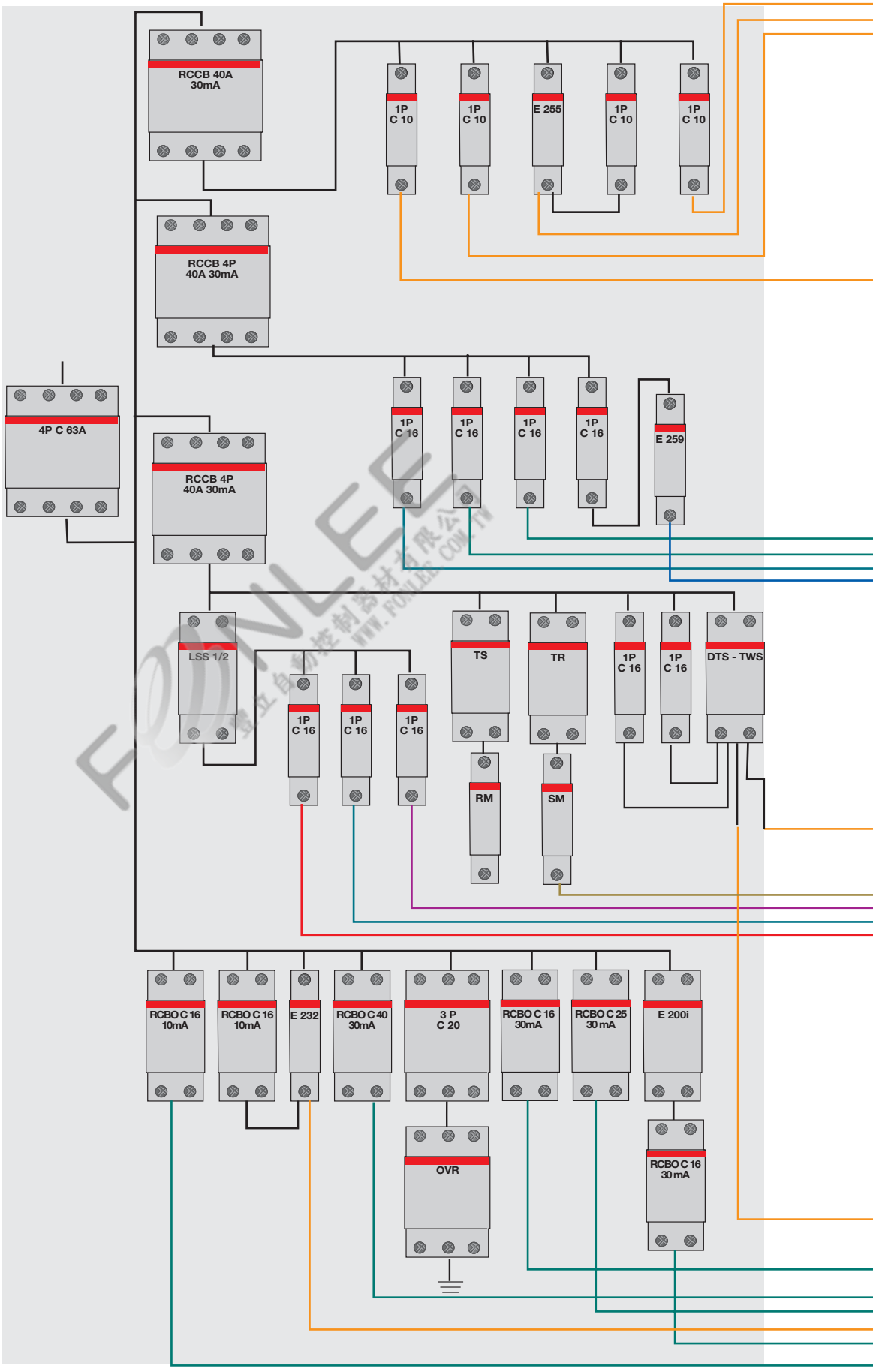


Application sheets

Advanced solution for consumer units installed in an indipendent house/villa (>100 m²)

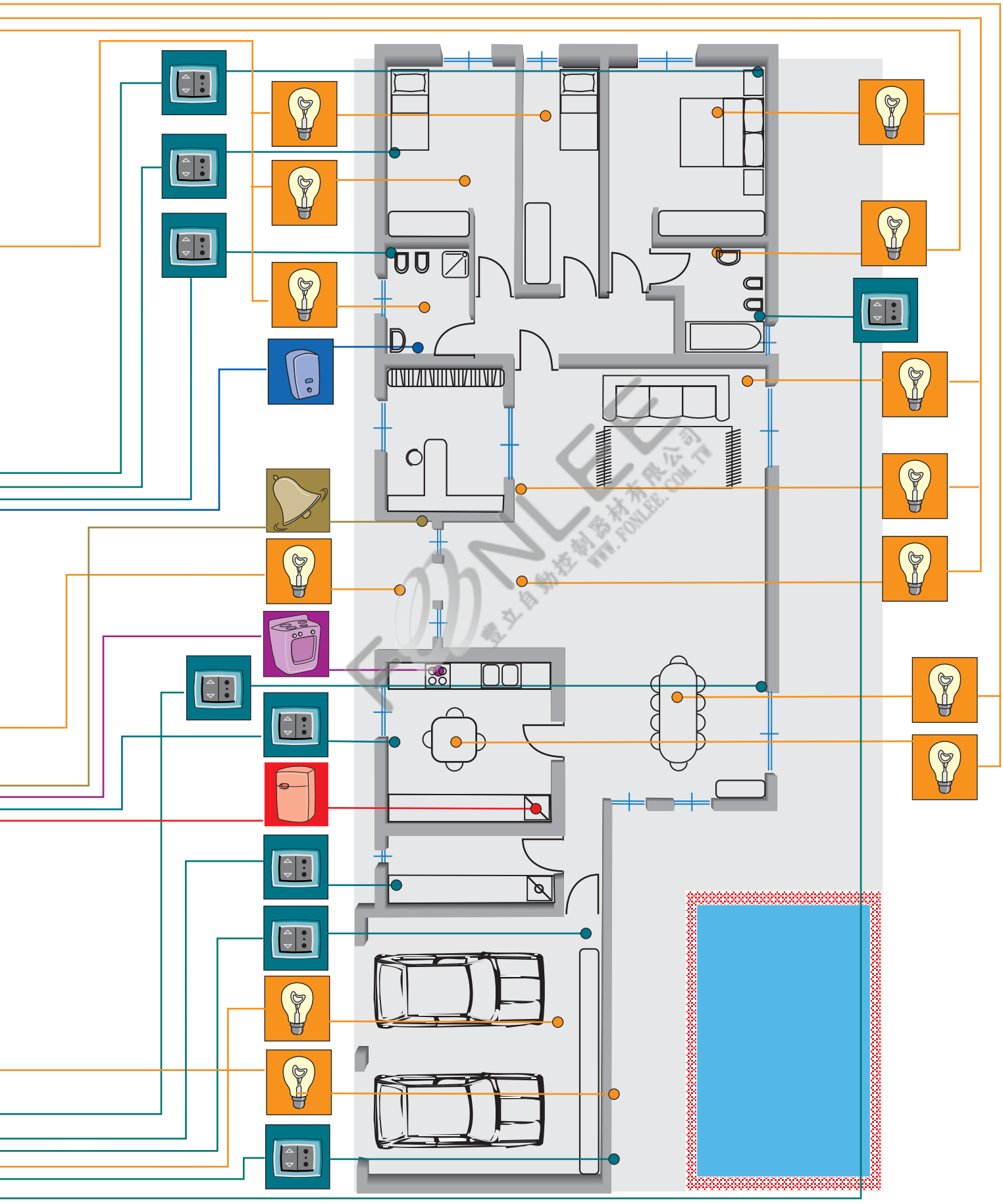
1 MCB used as main switch of the consumer unit
3 RCCBs protect sockets and lights circuits of the house
6 RCBOs protect separately the critical lines of the house
13 MCBs In=16A or In=10A protect sockets and lights circuits of the whole house
1 OVR protects against transient overvoltage peaks
1 modular bell and 1 buzzer for acoustic signals
1 LSS1/2 for the load management of the electric household appliances in the kitchen
1 E 200i separately controls the external sockets
1 DTS-TWS for lights time programming
1 E 259 for manual controlling of the boiler

In the living room, the E 255 (latching relay) allows the light sequential control through a single pushbutton circuit. The E 232 (staircase timer) permits the lighting time delay in the garage, so it is not possible to forget light turned on.



Application sheets

Advanced solution for consumer units installed in an indipendent house/villa (>100 m²)



Easy to handle –

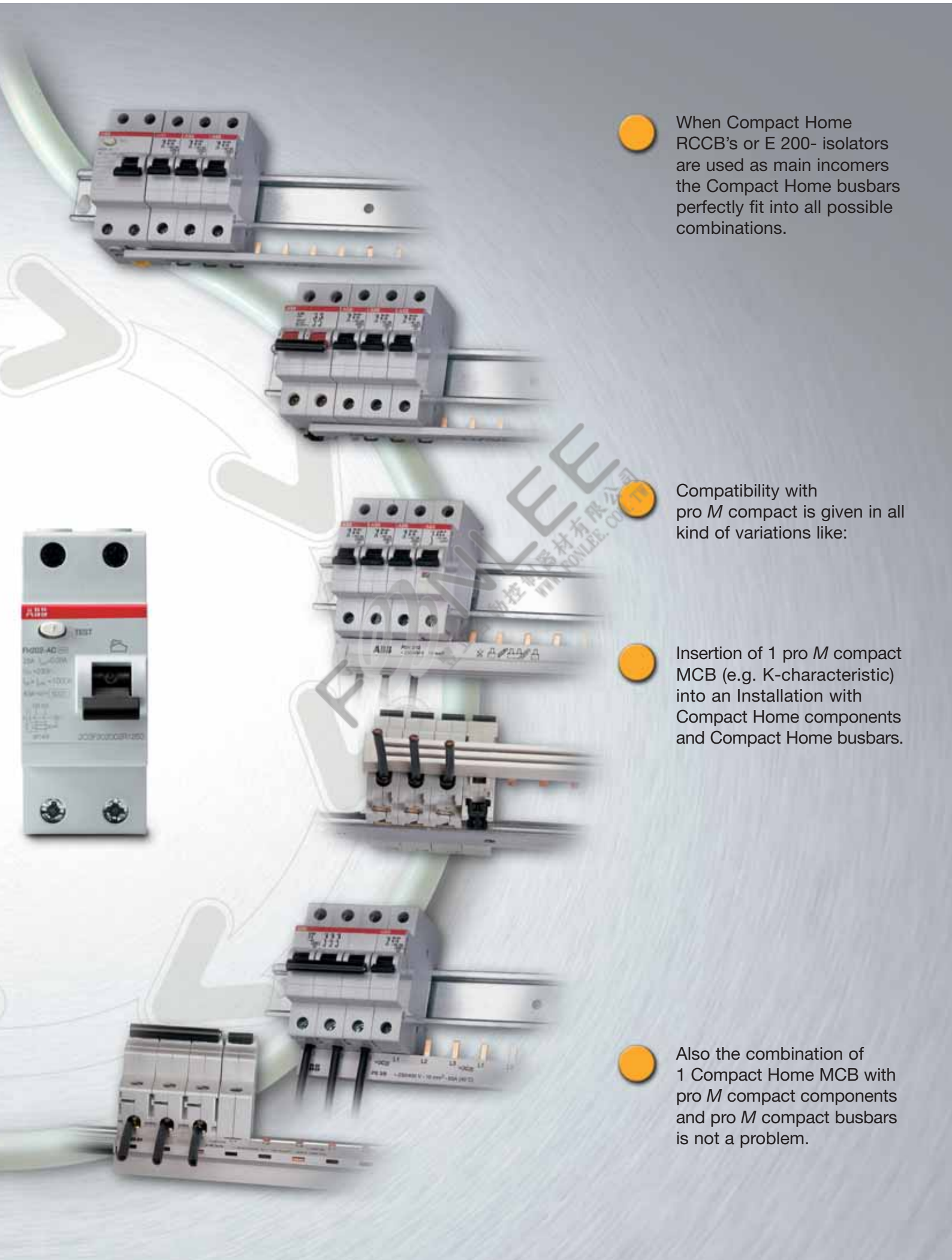
- The MCB's Compact Home are equiped with 25 mm^2 cage terminals, a well proven and reliable technology.

- 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.

- Compact Home

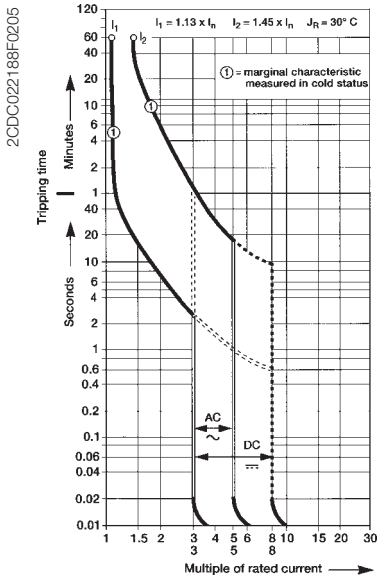


- When Compact Home RCCB's or E 200- isolators are used as main incomers the Compact Home busbars perfectly fit into all possible combinations.
- Compatibility with pro *M* compact is given in all kind of variations like:
- Insertion of 1 pro *M* compact MCB (e.g. K-characteristic) into an Installation 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.

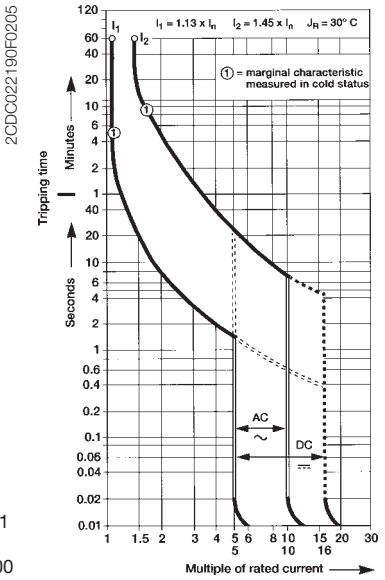
Technical features of MCBs SH 200 series

				SH 200 T	SH 200 L	SH 200
Electrical features	Standards			IEC/EN 60898		
	Rated current in		A	6 - 40		
	Poles			1, 2, 3, 4, 1+NA, 3+NA		
	Rated Voltage Ue	IEC 1P, 1P+N	V	230		
		IEC 2P, 3P, 3P+N, 4P	V	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 acc. to IEC/EN 60898	ultimate Icn	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	B: 3 In ≤ Im ≤ 5 In		•	•	•
	characterisitic	C: 5 In ≤ Im ≤10 In		•	•	•
Mechanical features	Toggle			black sealable in ON-OFF position		
	Electrical life			10000		
	Mechanical life/operations			20000		
	Protections degree/operations	housing		IP4X		
		terminals		IP2X		
	Mechanical shock resistance			30 g - 2 shocks - duration 11 ms		
	Resistance to vibrations acc. to IEC/EN 60060-2--6			5 g - 20 cycles at frequency 5…150…5 Hz with 0,8 x In		
	Tropicalization	humid heat	°C/RH	28 cycles with 55/95…100		
	acc. to IEC/EN 60068-2	constant climatic conditions	°C/RH	23/28 - 40/93 - 55/20		
		variable climatic conditions	°C/RH	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		
		UL/CSA	AWG	18-4		
	Tightening torque	IEC	N*m	2.5		
		UL/CSA	in-lbs.	22		
	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 weigh	Pole dimensions (H x D x W)		mm	85 x 69 x 17.5		
	Pole weight		g	125		

Tripping diagrams



Tripping characterisitc B
acc. to DIN VDE 0641 part 11
I_n = 6 … 40 A
SH 200 T / SH 200 L / SH 200



Tripping characterisitc C
acc. to DIN VDE 0641 part 11
I_n = 0.5 … 40 A
SH 200 T / SH 200 L / SH 200

Internal resistances and power losses of the Miniature Circuit-Breakers

Internal resistances per pole in m
Power losses per pole in W

Type	Rated current A	Range SH 200 T B, C		Range SH 200 L B, C		Range SH 200 B, C	
		m	W	m	W	m	W
SH 200	6	55	2.0	55	2.0	55	2.0
	8	15	1.0	15	1.0	15	1.0
	10	13.3	1.3	13.3	1.3	13.3	1.3
	13	13.3	2.3	13.3	2.3	13.3	2.3
	16	7.0	1.8	7.0	1.8	7.0	1.8
	20	6.25	2.5	6.25	2.5	6.25	2.5
	25	5.0	3.2	5.0	3.2	5.0	3.2
	32	3.6	3.7	3.6	3.7	3.6	3.7
	40	3.0	4.8	3.0	4.8	3.0	4.8

Tripping characteristics

acc. to	Tripping characterisitic	Thermal trips ① Test currents: Low test current I_1	High test current I_2	Tripping-time	Electromagnetic trips ② Test currents: hold current surges of	trip at least at	Tripping-time
IEC/EN 60898	B	1.13 · I_n	1.45 · I_n	> 1 h < 1 h ③	3 · I_n	5 · I_n	0.1 s … 45 s ≤ 32 A / 0.1 s … 90 s ≥ 32 A < 0,1 s
	C	1.13 · I_n	1.45 · I_n	> 1 h < 1 h ③	5 · I_n	10 · I_n	0.1 s … 45 s ≤ 32 A / 0.1 s … 30 s ≥ 32 A < 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 I_1 > 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 100 Hz	200 Hz	400 Hz	DC
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- and C-characteristic.

In the case of temperatures deviating from these values the tripp values

- are reduced in case of higher temperatures
- are increased in case of lower temperatures

The electronic tripping is not dependent on temperature

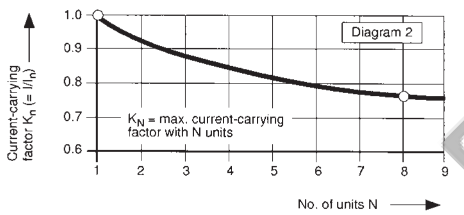
Current-carrying capacity of the MCB´s as a function of the ambient temperature

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

B, C	Ambient temperature T (°C)									
In (A)	-30	-20	-10	0	10	20	30	40	50	60
6.0	7.7	7.5	7.2	6.9	6.6	6.3	6.0	5.7	5.3	4.9
8.0	10.3	10.0	9.6	9.2	8.8	8.4	8.0	7.5	7.1	6.5
10.0	12.9	12.5	12.0	11.5	11.1	10.5	10.0	9.4	8.8	8.2
13.0	16.8	16.2	15.6	15.0	14.4	13.7	13.0	12.3	11.5	10.6
16.0	20.7	20.0	19.2	18.5	17.7	16.9	16.0	15.1	14.1	13.1
20.0	25.8	24.9	24.0	23.1	22.1	21.1	20.0	18.9	17.6	16.3
25.0	32.3	31.2	30.0	28.9	27.6	26.4	25.0	23.6	22.0	20.4
32.0	41.3	39.9	38.5	37.0	35.4	33.7	32.0	30.2	28.2	26.1
40.0	51.6	49.9	48.1	46.2	44.2	42.2	40.0	37.7	35.3	32.7

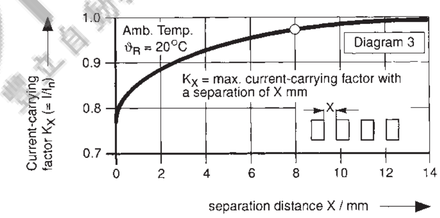
Mutual thermal influence in the case of simultaneous load

MCB´s mounted in a row side bay side



SK 0080 Z 93

MCB´s mounted with a seperating distance X



SK 0078 Z 93

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 ϑ_R N / X	16 A – B 40 °C 8 pieces / 0 and 8 mm
Load ≤ 1 h Continuous load > 1 h Continuous load, N M.C.B.´s, Distance 0 Continuous load, N M.C.B.´s, Distance X	1 a resp. 1 b 2 3	$I = I_n \cdot K_\vartheta$ $I = 0.9 \cdot In \cdot K_\vartheta$ $I = 0.9 \cdot K_\vartheta \cdot K_N$ $I = 0.9 \cdot K_\vartheta \cdot K_X$	16 · 1.07 = 17.1 A 0.9 · 16 · 1,07 = 15.4 A 0.9 · 16 · 1.07 · 0.77 = 11.9 A 0.9 · 16 · 1.07 · 0.98 = 15.1 A

Max. Back-up protection

SH 200 T / SH 200 L / SH 200	B/C Rated current	Max. Back-up protection fuse	Main Circuit Breaker S 700
	6/8	63 A	100 A
	10… 32	100 A	100 A
	40	125 A	100 A

Maximum permissible earth-fault loop impedance Z_s at U_0 = 230 V ~ ①
to ensure compliance with the operation conditions pursuant to IEC 60364-4.
Operating time < 0.4 s; at 400 V ~ < 0.2 s and at > 400 V ~ < 0.1 s
The instantaneous release of the MCB ensures an operating time of ≤ 0.1 s (TN system).

Determined according to DIN VDE 0100-520 sheet 2:2002-11 (source impedance = 300 Ω, c = 0.95 and conductor temperature 70 °C = factor 0.8). The internal resistance of the MCB is already included.

SH 200, SH 200 L, SH 200 T

Rated current I_n A	B max. Z_s Ω	C max. Z_s Ω
6	7.7	3.8
8	–	2.8
10	4.6	2.2
13	3.5	1.7
16	2.9	1.4
20	2.3	1.2
25	1.8	0.9
32	1.4	0.7
40	1.1	0.6

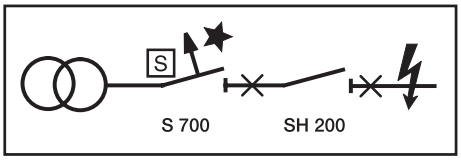
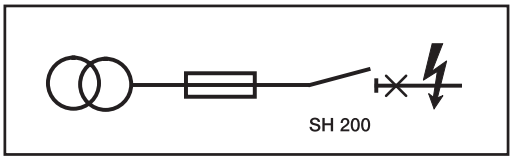
① U_0 = rated voltage against earthed conductor; for U_0 = 240 V ~ is $Z_s \cdot 1.04$; for U_0 = 127 V ~ is $Z_s \cdot 0.55$

Take into account the voltage drop:
e.g. in the case of a 1.5 mm² conductor, protected by a B 16 circuit breaker, the maximum cable length is 82 m.
If the voltage is below 3%, this would result in a maximum cable length (2-strand) of 17 m.
For more details on this topic, get your own copy of the technical information leaflet “Maximum cable lengths”.

Maximum cable length is the case of different voltages and cross sections on request.

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

2

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
SH 200 T – B, C	6	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	0.2	0.4	0.6	1.5	2.5	2.8	3	3	3	3
	8	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5		0.3	0.6	1.4	2.4	2.6	3	3	3	3
	10	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5			0.5	1.2	2.1	2.5	2.8	3	3	3
	13	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5			0.4	1.0	1.8	2.4	2.8	3	3	3
	16	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5				0.8	1.6	2.3	2.8	3	3	3
	20		4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5					1.5	2.1	2.5	2.5	3	3
	25			4,5	4,5	4,5	4,5	4,5	4,5	4,5					1.0	2.0	2.5	2.5	3	3
	32		**		4,5	4,5	4,5	4,5	4,5	4,5			no selectivity			1.9	2.5	2.5	3	3
	40					4,5	4,5	4,5	4,5	4,5						1.5	2	2	2	2
SH 200 L – B, C	6	6	6	6	6	6	6	6	6	6	0.2	0.4	0.7	1.8	3	5	4.5	4.5	4.5	4.5
	8	6	6	6	6	6	6	6	6	6	0.2	0.3	0.6	0.6	2.5	4	4.5	4.5	4.5	4.5
	10	6	6	6	6	6	6	6	6	6		0.3	0.6	1.4	2.3	3	4	4.5	4.5	4.5
	13	6	6	6	6	6	6	6	6	6			0.5	1.3	2	3	4	4.5	4.5	4.5
	16	6	6	6	6	6	6	6	6	6				1	1.8	2.5	3.5	4.5	4.5	4.5
	20		6	6	6	6	6	6	6	6					1.6	2.2	3	4	4.5	4.5
	25			6	6	6	6	6	6	6					1.5	2.2	3	4	4.5	4.5
	32		**		6	6	6	6	6	6			no selectivity			2	2.8	3.5	4.5	4.5
	40					6	6	6	6	6						2	2.5	3	4.5	4.5
SH 200 – B, C	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
	16	10	10	10	10	10	10	10	8	8			0.7	1.5	2.5	3.5	5	6	6	6
	20		10	10	10	10	10	10	8	8				1.3	2	2.9	4.1	6	6	6
	25			10	10	10	15	10	8	8					1.8	2.6	3.5	5	6	6
	32		**		10	10	10	10	8	8					1.8	2.6	3.5	5	6	6
	40					10	10	10	8	8						2.2	3	4	6	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.

Selection tables

Index

B

SH 200 T B characteristic

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

Applications: buildings, both residential and commercial

Standard: IEC/EN 60898

Icn=3kA

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	**SH 201 T-B 6**	2CDS 231 001 R0065	**63192 1**			0.125	10
	10	**SH 201 T-B 10**	2CDS 231 001 R0105	**63195 2**			0.125	10
	13	**SH 201 T-B 13**	2CDS 231 001 R0135	**63197 6**			0.125	10
	16	**SH 201 T-B 16**	2CDS 231 001 R0165	**63199 0**			0.125	10
	20	**SH 201 T-B 20**	2CDS 231 001 R0205	**63201 0**			0.125	10
	25	**SH 201 T-B 25**	2CDS 231 001 R0255	**63203 4**			0.125	10
U_{Bmax} 440 V ~	32	**SH 201 T-B 32**	2CDS 231 001 R0325	**63205 8**			0.125	10
60 V ⎓	40	**SH 201 T-B 40**	2CDS 231 001 R0405	**63207 2**			0.125	10
2	6	**SH 202 T-B 6**	2CDS 232 001 R0065	**63226 3**			0.25	5
	10	**SH 202 T-B 10**	2CDS 232 001 R0105	**63229 4**			0.25	5
	13	**SH 202 T-B 13**	2CDS 232 001 R0135	**63231 7**			0.25	5
	16	**SH 202 T-B 16**	2CDS 232 001 R0165	**63233 1**			0.25	5
	20	**SH 202 T-B 20**	2CDS 232 001 R0205	**63235 5**			0.25	5
U_{Bmax} 440 V ~	25	**SH 202 T-B 25**	2CDS 232 001 R0255	**63237 9**			0.25	5
125 V ⎓	32	**SH 202 T-B 32**	2CDS 232 001 R0325	**63239 3**			0.25	5
①	40	**SH 202 T-B 40**	2CDS 232 001 R0405	**63241 6**			0.25	5
3	6	**SH 203 T-B 6**	2CDS 233 001 R0065	**63243 0**			0.375	1
	10	**SH 203 T-B 10**	2CDS 233 001 R0105	**63246 1**			0.375	1
	13	**SH 203 T-B 13**	2CDS 233 001 R0135	**63248 5**			0.375	1
	16	**SH 203 T-B 16**	2CDS 233 001 R0165	**63250 8**			0.375	1
	20	**SH 203 T-B 20**	2CDS 233 001 R0205	**63252 2**			0.375	1
	25	**SH 203 T-B 25**	2CDS 233 001 R0255	**63254 6**			0.375	1
U_{Bmax} 440 V ~	32	**SH 203 T-B 32**	2CDS 233 001 R0325	**63256 0**			0.375	1
	40	**SH 203 T-B 40**	2CDS 233 001 R0405	**63258 4**			0.375	1
4	6	**SH 204 T-B 6**	2CDS 234 001 R0065	**63277 5**			0.5	1
	10	**SH 204 T-B 10**	2CDS 234 001 R0105	**63280 5**			0.5	1
	13	**SH 204 T-B 13**	2CDS 234 001 R0135	**63282 9**			0.5	1
	16	**SH 204 T-B 16**	2CDS 234 001 R0165	**63284 3**			0.5	1
	20	**SH 204 T-B 20**	2CDS 234 001 R0205	**63286 7**			0.5	1
U_{Bmax} 440 V ~	25	**SH 204 T-B 25**	2CDS 234 001 R0255	**63288 1**			0.5	1
125 V ⎓	32	**SH 204 T-B 32**	2CDS 234 001 R0325	**63290 4**			0.5	1
①	40	**SH 204 T-B 40**	2CDS 234 001 R0405	**63292 8**			0.5	1

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

MCBs SH 200 series T

3000

B

With disconnecting neutral NA

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 + NA	6	**SH 201 T-B 6 NA**	2CDS 231 103 R0065	**63209 6**			0.25	5
	10	**SH 201 T-B 10 NA**	2CDS 231 103 R0105	**63212 6**			0.25	5
	13	**SH 201 T-B 13 NA**	2CDS 231 103 R0135	**63214 0**			0.25	5
	16	**SH 201 T-B 16 NA**	2CDS 231 103 R0165	**63216 4**			0.25	5
	20	**SH 201 T-B 20 NA**	2CDS 231 103 R0205	**63218 8**			0.25	5
	25	**SH 201 T-B 25 NA**	2CDS 231 103 R0255	**63220 1**			0.25	5
U_{Bmax} 440 V ~	32	**SH 201 T-B 32 NA**	2CDS 231 103 R0325	**63222 5**			0.25	5
60 V ⎓	40	**SH 201 T-B 40 NA**	2CDS 231 103 R0405	**63224 9**			0.25	5
3 + NA	6	**SH 203 T-B 6 NA**	2CDS 233 103 R0065	**63260 7**			0.5	1
	10	**SH 203 T-B 10 NA**	2CDS 233 103 R0105	**63263 8**			0.5	1
	13	**SH 203 T-B 13 NA**	2CDS 233 103 R0135	**63265 2**			0.5	1
	16	**SH 203 T-B 16 NA**	2CDS 233 103 R0165	**63267 6**			0.5	1
	20	**SH 203 T-B 20 NA**	2CDS 233 103 R0205	**63269 0**			0.5	1
	25	**SH 203 T-B 25 NA**	2CDS 233 103 R0255	**63271 3**			0.5	1
U_{Bmax} 440 V ~	32	**SH 203 T-B 32 NA**	2CDS 233 103 R0325	**63273 7**			0.5	1
	40	**SH 203 T-B 40 NA**	2CDS 233 103 R0405	**63275 1**			0.5	1

C

SH 200 T C characteristic

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

Applications: buildings, both residential and commercial

Standard: IEC/EN 60898

Icn=3kA

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	**SH 201 T-C 6**	2CDS 231 001 R0064	**63191 4**			0.125	10
	8	**SH 201 T-C 8**	2CDS 231 001 R0084	**63193 8**			0.125	10
	10	**SH 201 T-C 10**	2CDS 231 001 R0104	**63194 5**			0.125	10
	13	**SH 201 T-C 13**	2CDS 231 001 R0134	**63196 9**			0.125	10
	16	**SH 201 T-C 16**	2CDS 231 001 R0164	**63198 3**			0.125	10
	20	**SH 201 T-C 20**	2CDS 231 001 R0204	**63200 3**			0.125	10
	25	**SH 201 T-C 25**	2CDS 231 001 R0254	**63202 7**			0.125	10
U_{Bmax} 440 V ~	32	**SH 201 T-C 32**	2CDS 231 001 R0324	**63204 1**			0.125	10
60 V ⎓	40	**SH 201 T-C 40**	2CDS 231 001 R0404	**63206 5**			0.125	10
2	6	**SH 202 T-C 6**	2CDS 232 001 R0064	**63225 6**			0.25	5
	8	**SH 202 T-C 8**	2CDS 232 001 R0084	**63227 0**			0.25	5
	10	**SH 202 T-C 10**	2CDS 232 001 R0104	**63228 7**			0.25	5
	13	**SH 202 T-C 13**	2CDS 232 001 R0134	**63230 0**			0.25	5
	16	**SH 202 T-C 16**	2CDS 232 001 R0164	**63232 4**			0.25	5
	20	**SH 202 T-C 20**	2CDS 232 001 R0204	**63234 8**			0.25	5
U_{Bmax} 440 V~	25	**SH 202 T-C 25**	2CDS 232 001 R0254	**63236 2**			0.25	5
125 V ⎓	32	**SH 202 T-C 32**	2CDS 232 001 R0324	**63238 6**			0.25	5
①	40	**SH 202 T-C 40**	2CDS 232 001 R0404	**63240 9**			0.25	5
3	6	**SH 203 T-C 6**	2CDS 233 001 R0064	**63242 3**			0.375	1
	8	**SH 203 T-C 8**	2CDS 233 001 R0084	**63244 7**			0.375	1
	10	**SH 203 T-C 10**	2CDS 233 001 R0104	**63245 4**			0.375	1
	13	**SH 203 T-C 13**	2CDS 233 001 R0134	**63247 8**			0.375	1
	16	**SH 203 T-C 16**	2CDS 233 001 R0164	**63249 2**			0.375	1
	20	**SH 203 T-C 20**	2CDS 233 001 R0204	**63251 5**			0.375	1
	25	**SH 203 T-C 25**	2CDS 233 001 R0254	**63253 9**			0.375	1
	32	**SH 203 T-C 32**	2CDS 233 001 R0324	**63255 3**			0.375	1
U_{Bmax} 440 V ~	40	**SH 203 T-C 40**	2CDS 233 001 R0404	**63257 7**			0.375	1
4	6	**SH 204 T-C 6**	2CDS 234 001 R0064	**63276 8**			0.5	1
	8	**SH 204 T-C 8**	2CDS 234 001 R0084	**63278 2**			0.5	1
	10	**SH 204 T-C 10**	2CDS 234 001 R0104	**63279 9**			0.5	1
	13	**SH 204 T-C 13**	2CDS 234 001 R0134	**63281 2**			0.5	1
	16	**SH 204 T-C16**	2CDS 234 001 R0164	**63283 6**			0.5	1
	20	**SH 204 T-C20**	2CDS 234 001 R0204	**63285 0**			0.5	1
U_{Bmax} 440 V ~	25	**SH 204 T-C25**	2CDS 234 001 R0254	**63287 4**			0.5	1
125 V ⎓	32	**SH 204 T-C32**	2CDS 234 001 R0324	**63289 8**			0.5	1
①	40	**SH 204 T-C 40**	2CDS 234 001 R0404	**63291 1**			0.5	1

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

MCBs SH 200 series T

3000

C

With disconnecting neutral NA

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 + NA	6	**SH 201 T-C 6 NA**	2CDS 231 103 R0064	**63208 9**			0.25	5
	8	**SH 201 T-C 8 NA**	2CDS 231 103 R0084	**63210 2**			0.25	5
	10	**SH 201 T-C 10 NA**	2CDS 231 103 R0104	**63211 9**			0.25	5
	13	**SH 201 T-C 13 NA**	2CDS 231 103 R0134	**63213 3**			0.25	5
	16	**SH 201 T-C 16 NA**	2CDS 231 103 R0164	**63215 7**			0.25	5
	20	**SH 201 T-C 20 NA**	2CDS 231 103 R0204	**63217 1**			0.25	5
	25	**SH 201 T-C 25 NA**	2CDS 231 103 R0254	**63219 5**			0.25	5
U_{Bmax} 440 V ~	32	**SH 201 T-C 32 NA**	2CDS 231 103 R0324	**63221 8**			0.25	5
60 V ⎓	40	**SH 201 T-C 40 NA**	2CDS 231 103 R0404	**63223 2**			0.25	5
3 + NA	6	**SH 203 T-C 6 NA**	2CDS 233 103 R0064	**63259 1**			0.5	1
	8	**SH 203 T-C 8 NA**	2CDS 233 103 R0084	**63261 4**			0.5	1
	10	**SH 203 T-C 10 NA**	2CDS 233 103 R0104	**63262 1**			0.5	1
	13	**SH 203 T-C 13 NA**	2CDS 233 103 R0134	**63264 5**			0.5	1
	16	**SH 203 T-C 16 NA**	2CDS 233 103 R0164	**63266 9**			0.5	1
	20	**SH 203 T-C 20 NA**	2CDS 233 103 R0204	**63268 3**			0.5	1
	25	**SH 203 T-C 25 NA**	2CDS 233 103 R0254	**63270 6**			0.5	1
U_{Bmax} 440 V ~	32	**SH 203 T-C 32 NA**	2CDS 233 103 R0324	**63272 0**			0.5	1
	40	**SH 203 T-C 40 NA**	2CDS 233 103 R0404	**63274 4**			0.5	1

B

SH 200 L B characteristic

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

Applications: buildings, both residential and commercial

Standard: IEC/EN 60898

Icn=4.5kA

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	**SH 201 L-B 6**	2CDS 241 001 R0065	**63294 2**			0.125	10
	10	**SH 201 L-B 10**	2CDS 241 001 R0105	**63297 3**			0.125	10
	13	**SH 201 L-B 13**	2CDS 241 001 R0135	**63299 7**			0.125	10
	16	**SH 201 L-B 16**	2CDS 241 001 R0165	**63301 7**			0.125	10
	20	**SH 201 L-B 20**	2CDS 241 001 R0205	**63303 1**			0.125	10
U_{Bmax}	25	**SH 201 L-B 25**	2CDS 241 001 R0255	**63305 5**			0.125	10
440 V ~	32	**SH 201 L-B 32**	2CDS 241 001 R0325	**63307 9**			0.125	10
60 V ⎓	40	**SH 201 L-B 40**	2CDS 241 001 R0405	**63309 3**			0.125	10
2	6	**SH 202 L-B 6**	2CDS 242 001 R0065	**63328 4**			0.25	5
	10	**SH 202 L-B 10**	2CDS 242 001 R0105	**63331 4**			0.25	5
	13	**SH 202 L-B 13**	2CDS 242 001 R0135	**63333 8**			0.25	5
	16	**SH 202 L-B 16**	2CDS 242 001 R0165	**63335 2**			0.25	5
	20	**SH 202 L-B 20**	2CDS 242 001 R0205	**63337 6**			0.25	5
U_{Bmax}	25	**SH 202 L-B 25**	2CDS 242 001 R0255	**63339 0**			0.25	5
440 V ~	32	**SH 202 L-B 32**	2CDS 242 001 R0325	**63341 3**			0.25	5
125 V ⎓ ①	40	**SH 202 L-B 40**	2CDS 242 001 R0405	**63343 7**			0.25	5
3	6	**SH 203 L-B 6**	2CDS 243 001 R0065	**63345 1**			0.375	1
	10	**SH 203 L-B 10**	2CDS 243 001 R0105	**63348 2**			0.375	1
	13	**SH 203 L-B 13**	2CDS 243 001 R0135	**63350 5**			0.375	1
	16	**SH 203 L-B 16**	2CDS 243 001 R0165	**63352 9**			0.375	1
	20	**SH 203 L-B 20**	2CDS 243 001 R0205	**63354 3**			0.375	1
	25	**SH 203 L-B 25**	2CDS 243 001 R0255	**63356 7**			0.375	1
U_{Bmax}	32	**SH 203 L-B 32**	2CDS 243 001 R0325	**63358 1**			0.375	1
440 V ~	40	**SH 203 L-B 40**	2CDS 243 001 R0405	**63360 4**			0.375	1
4	6	**SH 204 L-B 6**	2CDS 244 001 R0065	**63379 6**			0.5	1
	10	**SH 204 L-B 10**	2CDS 244 001 R0105	**63382 6**			0.5	1
	13	**SH 204 L-B 13**	2CDS 244 001 R0135	**63384 0**			0.5	1
	16	**SH 204 L-B 16**	2CDS 244 001 R0165	**63386 4**			0.5	1
	20	**SH 204 L-B 20**	2CDS 244 001 R0205	**63388 8**			0.5	1
U_{Bmax}	25	**SH 204 L-B 25**	2CDS 244 001 R0255	**63390 1**			0.5	1
440 V ~	32	**SH 204 L-B 32**	2CDS 244 001 R0325	**63392 5**			0.5	1
125 V ⎓ ①	40	**SH 204 L-B 40**	2CDS 244 001 R0405	**63394 9**			0.5	1

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

B

With disconnecting neutral NA

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 + NA	6	**SH 201 L-B 6 NA**	2CDS 241 103 R0065	**63311 6**			0.25	5
	10	**SH 201 L-B 10 NA**	2CDS 241 103 R0105	**63314 7**			0.25	5
	13	**SH 201 L-B 13 NA**	2CDS 241 103 R0135	**63316 1**			0.25	5
	16	**SH 201 L-B 16 NA**	2CDS 241 103 R0165	**63318 5**			0.25	5
	20	**SH 201 L-B 20 NA**	2CDS 241 103 R0205	**63320 8**			0.25	5
	25	**SH 201 L-B 25 NA**	2CDS 241 103 R0255	**63322 2**			0.25	5
U_{Bmax} 440 V ~	32	**SH 201 L-B 32 NA**	2CDS 241 103 R0325	**63324 6**			0.25	5
60 V ⎓	40	**SH 201 L-B 40 NA**	2CDS 241 103 R0405	**63326 0**			0.25	5
3 + NA	6	**SH 203 L-B 6 NA**	2CDS 243 103 R0065	**63362 8**			0.5	1
	10	**SH 203 L-B 10 NA**	2CDS 243 103 R0105	**63365 9**			0.5	1
	13	**SH 203 L-B 13 NA**	2CDS 243 103 R0135	**63367 3**			0.5	1
	16	**SH 203 L-B 16 NA**	2CDS 243 103 R0165	**63369 7**			0.5	1
	20	**SH 203 L-B 20 NA**	2CDS 243 103 R0205	**63371 0**			0.5	1
	25	**SH 203 L-B 25 NA**	2CDS 243 103 R0255	**63373 4**			0.5	1
U_{Bmax} 440 V ~	32	**SH 203 L-B 32 NA**	2CDS 243 103 R0325	**63375 8**			0.5	1
	40	**SH 203 L-B 40 NA**	2CDS 243 103 R0405	**63377 2**			0.5	1

C

3

SH 200 L C characteristic

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

Applications: buildings, both residential and commercial

Standard: IEC/EN 60898

Icn=4.5kA

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	**SH 201 L-C 6**	2CDS 241 001 R0064	**63293 5**			0.125	10
	8	**SH 201 L-C 8**	2CDS 241 001 R0084	**63295 9**			0.125	10
	10	**SH 201 L-C 10**	2CDS 241 001 R0104	**63296 6**			0.125	10
	13	**SH 201 L-C 13**	2CDS 241 001 R0134	**63298 0**			0.125	10
	16	**SH 201 L-C 16**	2CDS 241 001 R0164	**63300 0**			0.125	10
	20	**SH 201 L-C 20**	2CDS 241 001 R0204	**63302 4**			0.125	10
	25	**SH 201 L-C 25**	2CDS 241 001 R0254	**63304 8**			0.125	10
U_{Bmax} 440 V ~ 60 V ⎓	32	**SH 201 L-C 32**	2CDS 241 001 R0324	**63306 2**			0.125	10
	40	**SH 201 L-C 40**	2CDS 241 001 R0404	**63308 6**			0.125	10
2	6	**SH 202 L-C 6**	2CDS 242 001 R0064	**63327 7**			0.25	5
	8	**SH 202 L-C 8**	2CDS 242 001 R0084	**63329 1**			0.25	5
	10	**SH 202 L-C 10**	2CDS 242 001 R0104	**63330 7**			0.25	5
	13	**SH 202 L-C 13**	2CDS 242 001 R0134	**63332 1**			0.25	5
	16	**SH 202 L-C 16**	2CDS 242 001 R0164	**63334 5**			0.25	5
	20	**SH 202 L-C 20**	2CDS 242 001 R0204	**63336 9**			0.25	5
U_{Bmax} 440 V ~ 125 V ⎓ ①	25	**SH 202 L-C 25**	2CDS 242 001 R0254	**63338 3**			0.25	5
	32	**SH 202 L-C 32**	2CDS 242 001 R0324	**63340 6**			0.25	5
	40	**SH 202 L-C 40**	2CDS 242 001 R0404	**63342 0**			0.25	5
3	6	**SH 203 L-C 6**	2CDS 243 001 R0064	**63344 4**			0.375	1
	8	**SH 203 L-C 8**	2CDS 243 001 R0084	**63346 8**			0.375	1
	10	**SH 203 L-C 10**	2CDS 243 001 R0104	**63347 5**			0.375	1
	13	**SH 203 L-C 13**	2CDS 243 001 R0134	**63349 9**			0.375	1
	16	**SH 203 L-C 16**	2CDS 243 001 R0164	**63351 2**			0.375	1
	20	**SH 203 L-C 20**	2CDS 243 001 R0204	**63353 6**			0.375	1
	25	**SH 203 L-C 25**	2CDS 243 001 R0254	**63355 0**			0.375	1
	32	**SH 203 L-C 32**	2CDS 243 001 R0324	**63357 4**			0.375	1
U_{Bmax} 440 V ~	40	**SH 203 L-C 40**	2CDS 243 001 R0404	**63359 8**			0.375	1
4	6	**SH 204 L-C 6**	2CDS 244 001 R0064	**63378 9**			0.5	1
	8	**SH 204 L-C 8**	2CDS 244 001 R0084	**63380 2**			0.5	1
	10	**SH 204 L-C 10**	2CDS 244 001 R0104	**63381 9**			0.5	1
	13	**SH 204 L-C 13**	2CDS 244 001 R0134	**63383 3**			0.5	1
	16	**SH 204 L-C 16**	2CDS 244 001 R0164	**63385 7**			0.5	1
	20	**SH 204 L-C 20**	2CDS 244 001 R0204	**63387 1**			0.5	1
U_{Bmax} 440 V ~ 125 V ⎓ ①	25	**SH 204 L-C 25**	2CDS 244 001 R0254	**63389 5**			0.5	1
	32	**SH 204 L-C 32**	2CDS 244 001 R0324	**63391 8**			0.5	1
	40	**SH 204 L-C 40**	2CDS 244 001 R0404	**63393 2**			0.5	1

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

MCBs SH 200 series L

4500

C

With disconnecting neutral NA

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 + NA	6	**SH 201 L-C 6 NA**	2CDS 241 103 R0064	**63310 9**			0.25	5
	8	**SH 201 L-C 8 NA**	2CDS 241 103 R0084	**63312 3**			0.25	5
	10	**SH 201 L-C 10 NA**	2CDS 241 103 R0104	**63313 0**			0.25	5
	13	**SH 201 L-C 13 NA**	2CDS 241 103 R0134	**63315 4**			0.25	5
	16	**SH 201 L-C 16 NA**	2CDS 241 103 R0164	**63317 8**			0.25	5
	20	**SH 201 L-C 20 NA**	2CDS 241 103 R0204	**63319 2**			0.25	5
	25	**SH 201 L-C 25 NA**	2CDS 241 103 R0254	**63321 5**			0.25	5
U_{Bmax} 440 V ~	32	**SH 201 L-C 32 NA**	2CDS 241 103 R0324	**63323 9**			0.25	5
60 V ⎓	40	**SH 201 L-C 40 NA**	2CDS 241 103 R0404	**63325 3**			0.25	5
3 + NA	6	**SH 203 L-C 6 NA**	2CDS 243 103 R0064	**63361 1**			0.5	1
	8	**SH 203 L-C 8 NA**	2CDS 243 103 R0084	**63363 5**			0.5	1
	10	**SH 203 L-C 10 NA**	2CDS 243 103 R0104	**63364 2**			0.5	1
	13	**SH 203 L-C 13 NA**	2CDS 243 103 R0134	**63366 6**			0.5	1
	16	**SH 203 L-C 16 NA**	2CDS 243 103 R0164	**63368 0**			0.5	1
	20	**SH 203 L-C 20 NA**	2CDS 243 103 R0204	**63370 3**			0.5	1
	25	**SH 203 L-C 25 NA**	2CDS 243 103 R0254	**63372 7**			0.5	1
U_{Bmax} 440 V ~	32	**SH 203 L-C 32 NA**	2CDS 243 103 R0324	**63374 1**			0.5	1
	40	**SH 203 L-C 40 NA**	2CDS 243 103 R0404	**63376 5**			0.5	1

B

SH 200 B characteristic

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

Applications: buildings, both residential and commercial

Standard: IEC/EN 60898

Icn=6kA

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	**SH 201-B 6**	2CDS 211 001 R0065	**63058 0**			0.125	10
	10	**SH 201-B 10**	2CDS 211 001 R0105	**63061 0**			0.125	10
	13	**SH 201-B 13**	2CDS 211 001 R0135	**63063 4**			0.125	10
	16	**SH 201-B 16**	2CDS 211 001 R0165	**63065 8**			0.125	10
	20	**SH 201-B 20**	2CDS 211 001 R0205	**63067 2**			0.125	10
	25	**SH 201-B 25**	2CDS 211 001 R0255	**63069 6**			0.125	10
U_{Bmax} 440 V ~ 60 V ⎓	32	**SH 201-B 32**	2CDS 211 001 R0325	**63071 9**			0.125	10
	40	**SH 201-B 40**	2CDS 211 001 R0405	**63073 3**			0.125	10
2	6	**SH 202-B 6**	2CDS 212 001 R0065	**63104 4**			0.25	5
	10	**SH 202-B 10**	2CDS 212 001 R0105	**63107 5**			0.25	5
	13	**SH 202-B 13**	2CDS 212 001 R0135	**63109 9**			0,25	5
	16	**SH 202-B 16**	2CDS 212 001 R0165	**63111 2**			0.25	5
	20	**SH 202-B 20**	2CDS 212 001 R0205	**63113 6**			0.25	5
U_{Bmax} 440 V ~ 125 V ⎓ ①	25	**SH 202-B 25**	2CDS 212 001 R0255	**63115 0**			0.25	5
	32	**SH 202-B 32**	2CDS 212 001 R0325	**63117 4**			0.25	5
	40	**SH 202-B 40**	2CDS 212 001 R0405	**63119 8**			0.25	5
3	6	**SH 203-B 6**	2CDS 213 001 R0065	**63127 3**			0.375	1
	10	**SH 203-B 10**	2CDS 213 001 R0105	**63130 3**			0.375	1
	13	**SH 203-B 13**	2CDS 213 001 R0135	**63132 7**			0.375	1
	16	**SH 203-B 16**	2CDS 213 001 R0165	**63134 1**			0.375	1
	20	**SH 203-B 20**	2CDS 213 001 R0205	**63136 5**			0.375	1
	25	**SH 203-B 25**	2CDS 213 001 R0255	**63138 9**			0.375	1
U_{Bmax} 440 V ~	32	**SH 203-B 32**	2CDS 213 001 R0325	**63140 2**			0.375	1
	40	**SH 203-B 40**	2CDS 213 001 R0405	**63142 6**			0.375	1
4	6	**SH 204-B 6**	2CDS 214 001 R0065	**63173 0**			0.5	1
	10	**SH 204-B 10**	2CDS 214 001 R0105	**63176 1**			0.5	1
	13	**SH 204-B 13**	2CDS 214 001 R0135	**63178 5**			0.5	1
	16	**SH 204-B 16**	2CDS 214 001 R0165	**63180 8**			0.5	1
	20	**SH 204-B 20**	2CDS 214 001 R0205	**63182 2**			0.5	1
U_{Bmax} 440 V ~ 125 V ⎓	25	**SH 204-B 25**	2CDS 214 001 R0255	**63184 6**			0.5	1
	32	**SH 204-B 32**	2CDS 214 001 R0325	**63186 0**			0.5	1
①	40	**SH 204-B 40**	2CDS 214 001 R0405	**63188 4**			0.5	1

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

B

With disconnecting neutral NA

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 + NA	6	**SH 201-B 6 NA**	2CDS 211 103 R0065	**63081 8**			0.25	5
	10	**SH 201-B 10 NA**	2CDS 211 103 R0105	**63084 9**			0.25	5
	13	**SH 201-B 13 NA**	2CDS 211 103 R0135	**63086 3**			0.25	5
	16	**SH 201-B 16 NA**	2CDS 211 103 R0165	**63088 7**			0.25	5
	20	**SH 201-B 20 NA**	2CDS 211 103 R0205	**63090 0**			0.25	5
	25	**SH 201-B 25 NA**	2CDS 211 103 R0255	**63092 4**			0.25	5
U_{Bmax} 440 V ~	32	**SH 201-B 32 NA**	2CDS 211 103 R0325	**63094 8**			0.25	5
60 V ⎓	40	**SH 201-B 40 NA**	2CDS 211 103 R0405	**63096 2**			0.25	5
3 + NA	6	**SH 203-B 6 NA**	2CDS 213 103 R0065	**63150 1**			0.5	1
	10	**SH 203-B 10 NA**	2CDS 213 103 R0105	**63153 2**			0.5	1
	13	**SH 203-B 13 NA**	2CDS 213 103 R0135	**63155 6**			0.5	1
	16	**SH 203-B 16 NA**	2CDS 213 103 R0165	**63157 0**			0.5	1
	20	**SH 203-B 20 NA**	2CDS 213 103 R0205	**63159 4**			0.5	1
	25	**SH 203-B 25 NA**	2CDS 213 103 R0255	**63161 7**			0.5	1
U_{Bmax} 440 V ~	32	**SH 203-B 32 NA**	2CDS 213 103 R0325	**63163 1**			0.5	1
	40	**SH 203-B 40 NA**	2CDS 213 103 R0405	**63165 5**			0.5	1

C

SH 200 C characteristic

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

Applications: buildings, both residential and commercial

Standard: IEC/EN 60898

Icn=6kA

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	**SH 201-C 6**	2CDS 211 001 R0064	**63057 3**			0.125	10
	8	**SH 201-C 8**	2CDS 211 001 R0084	**63059 7**			0.125	10
	10	**SH 201-C 10**	2CDS 211 001 R0104	**63060 3**			0.125	10
	13	**SH 201-C 13**	2CDS 211 001 R0134	**63062 7**			0.125	10
	16	**SH 201-C 16**	2CDS 211 001 R0164	**63064 1**			0.125	10
	20	**SH 201-C 20**	2CDS 211 001 R0204	**63066 5**			0.125	10
	25	**SH 201-C 25**	2CDS 211 001 R0254	**63068 9**			0.125	10
U_{Bmax} 440 V ~	32	**SH 201-C 32**	2CDS 211 001 R0324	**63070 2**			0.125	10
60 V ⎓	40	**SH 201-C 40**	2CDS 211 001 R0404	**63072 6**			0.125	10
2	6	**SH 202-C 6**	2CDS 212 001 R0064	**63103 7**			0.25	5
	8	**SH 202-C 8**	2CDS 212 001 R0084	**63105 1**			0.25	5
	10	**SH 202-C 10**	2CDS 212 001 R0104	**63106 8**			0.25	5
	13	**SH 202-C 13**	2CDS 212 001 R0134	**63108 2**			0.25	5
	16	**SH 202-C 16**	2CDS 212 001 R0164	**63110 5**			0.25	5
	20	**SH 202-C 20**	2CDS 212 001 R0204	**63112 9**			0.25	5
U_{Bmax} 440 V ~	25	**SH 202-C 25**	2CDS 212 001 R0254	**63114 3**			0.25	5
125 V ⎓	32	**SH 202-C 32**	2CDS 212 001 R0324	**63116 7**			0.25	5
①	40	**SH 202-C 40**	2CDS 212 001 R0404	**63118 1**			0.25	5
3	6	**SH 203-C 6**	2CDS 213 001 R0064	**63126 6**			0.375	1
	8	**SH 203-C 8**	2CDS 213 001 R0084	**63128 0**			0.375	1
	10	**SH 203-C 10**	2CDS 213 001 R0104	**63129 7**			0.375	1
	13	**SH 203-C 13**	2CDS 213 001 R0134	**63131 0**			0.375	1
	16	**SH 203-C 16**	2CDS 213 001 R0164	**63133 4**			0.375	1
	20	**SH 203-C 20**	2CDS 213 001 R0204	**63135 8**			0.375	1
	25	**SH 203-C 25**	2CDS 213 001 R0254	**63137 2**			0.375	1
	32	**SH 203-C 32**	2CDS 213 001 R0324	**63139 6**			0.375	1
U_{Bmax} 440 V ~	40	**SH 203-C 40**	2CDS 213 001 R0404	**63141 9**			0.375	1
4	6	**SH 204-C 6**	2CDS 214 001 R0064	**63172 3**			0.5	1
	8	**SH 204-C 8**	2CDS 214 001 R0084	**63174 7**			0.5	1
	10	**SH 204-C 10**	2CDS 214 001 R0104	**63175 4**			0.5	1
	13	**SH 204-C 13**	2CDS 214 001 R0134	**63177 8**			0.5	1
	16	**SH 204-C 16**	2CDS 214 001 R0164	**63179 2**			0.5	1
	20	**SH 204-C 20**	2CDS 214 001 R0204	**63181 5**			0.5	1
U_{Bmax} 440 V ~	25	**SH 204-C 25**	2CDS 214 001 R0254	**63183 9**			0.5	1
125 V ⎓	32	**SH 204-C 32**	2CDS 214 001 R0324	**63185 3**			0.5	1
①	40	**SH 204-C 40**	2CDS 214 001 R0404	**63187 7**			0.5	1

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

C

With disconnecting neutral NA

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 + NA	6	**SH 201-C 6 NA**	2CDS 211 103 R0064	**63080 1**			0.25	5
	8	**SH 201-C 8 NA**	2CDS 211 103 R0084	**63082 5**			0.25	5
	10	**SH 201-C 10 NA**	2CDS 211 103 R0104	**63083 2**			0.25	5
	13	**SH 201-C 13 NA**	2CDS 211 103 R0134	**63085 6**			0.25	5
	16	**SH 201-C 16 NA**	2CDS 211 103 R0164	**63087 0**			0.25	5
	20	**SH 201-C 20 NA**	2CDS 211 103 R0204	**63089 4**			0.25	5
U_{Bmax}	25	**SH 201-C 25 NA**	2CDS 211 103 R0254	**63091 7**			0.25	5
440 V ~	32	**SH 201-C 32 NA**	2CDS 211 103 R0324	**63093 1**			0.25	5
60 V ⎓	40	**SH 201-C 40 NA**	2CDS 211 103 R0404	**63095 5**			0.25	5
3 + NA	6	**SH 203-C 6 NA**	2CDS 213 103 R0064	**63149 5**			0.5	1
	8	**SH 203-C 8 NA**	2CDS 213 103 R0084	**63151 8**			0.5	1
	10	**SH 203-C 10 NA**	2CDS 213 103 R0104	**63152 5**			0.5	1
	13	**SH 203-C 13 NA**	2CDS 213 103 R0134	**63154 9**			0.5	1
	16	**SH 203-C 16 NA**	2CDS 213 103 R0164	**63156 3**			0.5	1
	20	**SH 203-C 20 NA**	2CDS 213 103 R0204	**63158 7**			0.5	1
	25	**SH 203-C 25 NA**	2CDS 213 103 R0254	**63160 0**			0.5	1
U_{Bmax}	32	**SH 203-C 32 NA**	2CDS 213 103 R0324	**63162 4**			0.5	1
440 V ~	40	**SH 203-C 40 NA**	2CDS 213 103 R0404	**63164 8**			0.5	1

AC

FH 200 AC type

Function: protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct (with IΔn=30mA) contacts; command and isolation of resistive and inductive circuits.

Application: buildings, both residential and commercial

Standard: IEC/EN 61008

Marking: according to IEC 61008

No. of poles	nominal fault current IΔn mA	nominal current In A	order details type code	order code	bbn 80 12542 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack unit pc.
2	30	25	**FH202 AC-25/0.03**	2CSF202006R1250	**894209**			0.200	1/6
		40	**FH202 AC-40/0.03**	2CSF202006R1400	**894308**			0.200	1/6
		63	**FH202 AC-63/0.03**	2CSF202006R1630	**894407**			0.200	1/6
	100	25	**FH202 AC-25/0.1**	2CSF202006R2250	**894506**			0.200	1/6
		40	**FH202 AC-40/0.1**	2CSF202006R2400	**894605**			0.200	1/6
		63	**FH202 AC-63/0.1**	2CSF202006R2630	**894704**			0.200	1/6
	300	25	**FH202 AC-25/0.3**	2CSF202006R3250	**894803**			0.200	1/6
		40	**FH202 AC-40/0.3**	2CSF202006R3400	**894902**			0.200	1/6
		63	**FH202 AC-63/0.3**	2CSF202006R3630	**895008**			0.200	1/6
4	30	25	**FH204 AC-25/0.03**	2CSF204006R1250	**895107**			0.350	1/3
		40	**FH204 AC-40/0.03**	2CSF204006R1400	**895206**			0.350	1/3
		63	**FH204 AC-63/0.03**	2CSF204006R1630	**895305**			0.350	1/3
	100	25	**FH204 AC-25/0.1**	2CSF204006R2250	**895404**			0.350	1/3
		40	**FH204 AC-40/0.1**	2CSF204006R2400	**895503**			0.350	1/3
		63	**FH204 AC-63/0.1**	2CSF204006R2630	**895602**			0.350	1/3
	300	25	**FH204 AC-25/0.3**	2CSF204006R3250	**895701**			0.350	1/3
		40	**FH204 AC-40/0.3**	2CSF204006R3400	**895800**			0.350	1/3
		63	**FH204 AC-63/0.3**	2CSF204006R3630	**895909**			0.350	1/3

A

FH 200 A type

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct (with IΔn=30mA) contacts; command and isolation of resistive and inductive circuits.

Application: buildings, both residential and commercial

Standard: IEC/EN 61008

Marking: according to EN 61008

No. of poles	nominal fault current IΔn mA	nominal current In A	order details type code	order code	bbn 80 12542 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack unit pc.
2	30	25	**FH202 A-25/0.03**	2CSF202102R1250	**892403**			0.200	1/6
		40	**FH202 A-40/0.03**	2CSF202102R1400	**892502**			0.200	1/6
		63	**FH202 A-63/0.03**	2CSF202102R1630	**892601**			0.200	1/6
4	30	25	**FH204 A-25/0.03**	2CSF204102R1250	**892700**			0.350	1/3
		40	**FH204 A-40/0.03**	2CSF204102R1400	**892809**			0.350	1/3
		63	**FH204 A-63/0.03**	2CSF204102R1630	**892908**			0.350	1/3

DS 941 and DS951, B and C characteristics

Function: protection against both overload and short circuit currents and earth fault currents; additional protection against direct contact (thanks to IΔn=30mA)

Application: buildings, both residential and commercial

No. of poles	type/class	nominal fault current IΔn mA	nominal current In A	order details type code	order code	bbn 80 12542 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack. unit pc.
RCBOs DS 941, Icn= 4.5kA, B characteristics										
1P+N	AC	30	10	**DS 941 B10 30MA AC**	16020015	**403104**			0.200	1/5
			16	**DS 941 B16 30MA AC**	16020023	**403203**			0.200	1/5
			20	**DS 941 B20 30MA AC**	16020031	**403302**			0.200	1/5
			25	**DS 941 B25 30MA AC**	16020049	**403401**			0.200	1/5
RCBOs DS 941, Icn= 4.5kA, C characteristic										
1P+N	AC	30	10	**DS 941 C10-30MA AC**	16020403	**406600**			0.200	1/5
			16	**DS 941 C16-30MA AC**	16020411	**406709**			0.200	1/5
			20	**DS 941 C20-30MA AC**	16020429	**406808**			0.200	1/5
			25	**DS 941 C25-30MA AC**	16020437	**406907**			0.200	1/5
RCBOs DS 951, Icn=6kA, B characteristic										
1P+N	AC	30	10	**DS 951 B10-30MA AC**	16021013	**410102**			0.200	1/5
			16	**DS 951 B16-30MA AC**	16021021	**410201**			0.200	1/5
			20	**DS 951 B20-30MA AC**	16021039	**410300**			0.200	1/5
			25	**DS 951 B25-30MA AC**	16021047	**410409**			0.200	1/5
RCBOs DS 951, Icn= 6kA, C characteristic										
1P+N	AC	30	10	**DS 951 C10-30MA AC**	16021369	**413608**			0.200	1/5
			16	**DS 951 C16-30MA AC**	16021377	**413707**			0.200	1/5
			20	**DS 951 C20-30MA AC**	16021385	**413806**			0.200	1/5
			25	**DS 951 C25-30MA AC**	16021393	**413905**			0.200	1/5

Note: for more information about these products and to know the complete range, see the technical catalogue

3

Busbars

Type	Order Code	bbn 4016779 EAN	Pins	mm2	Phase sequence	End caps	Pack unit pcs.
PSH 1/12	**2CDL110001R1012**	**651868**	12	10	L1-L1…	PSH-END 1.1	50
PSH 1/60	**2CDL110001R1060**	**651875**	60	10	L1-L1…	PSH-END 1.1	20
PSH 2/12	**2CDL120001R1012**	**651882**	12	10	L1-L2-L1…	incl.	50
PSH 2/58	**2CDL120001R1058**	**651899**	58	10	L1-L2-L1…	PSH-END	10
PSH 3/12	**2CDL130001R1012**	**651905**	12	10	L1-L2-L3-L1…	incl.	50
PSH 3/60	**2CDL130001R1060**	**651912**	60	10	L1-L2-L3-L1…	PSH-END	10
PSH 4/12	**2CDL140001R1012**	**651929**	12	10	L1-L2-L3-N-L1…	incl.	30
PSH 4/60	**2CDL140001R1060**	**651936**	60	10	L1-L2-L3-N-L1…	PSH-END 1	50

End caps

PSH-END 1.1	**2CDL100011R0011**	**653169**					50
PSH-END	**2CDL100001R0002**	**653176**					50
PSH-END 1	**2CDL200110R0001**	**653183**					50


2CDC 051 496 F0003

E 200 switches

Isolator for panel installation onto DIN rail acc. to DIN EN 60715
Mounting depth: 70mm
Mounting width: per pole = 17.5mm = 1 module
Colour: grey, RAL 7035
Colour of switch lever: red RAL 3000 (r); grey RAL 7000 (g)

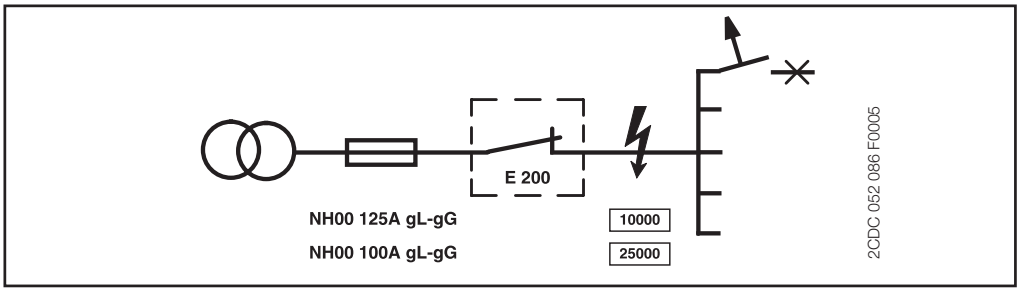
Special features

- Captive screws with recessed/slotted head, Pozidriv size 2
- Integrated lay-on edge for labeling system ILS
- Locking device as accessories for unauthorized ON/OFF
- Approval: VDE, CCC

No. of poles	rated voltage VAC	power loss W	order details type code	order code	bbn 4016779 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack. unit pc.
Rated current = 16A									
1NO	230V	0.15	**E201/16g**	2CDE281001R1016	**645614**			0.095	10
1NO	230V	0.15	**E201/16r**	2CDE281001R0016	**645621**			0.095	10
2NO	400V	0.30	**E202/16g**	2CDE282001R1016	**645799**			0.190	5
2NO	400V	0.30	**E202/16r**	2CDE282001R0016	**645805**			0.190	5
3NO	400V	0.45	**E203/16g**	2CDE283001R1016	**645973**			0.290	3
3NO	400V	0.45	**E 203/16r**	2CDE283001R0016	**645980**			0.290	3
4NO	400V	0.60	**E204/16g**	2CDE284001R1016	**646154**			0.390	2
4NO	400V	0.60	**E204/16r**	2CDE284001R0016	**646161**			0.390	2

Technical data

Switching capacity	1.25 x I_n; 1.1 x U_n; cosφ = 0..3 acc. to DIN VDE 0632 AC22-A/AC23-A acc. to VDE 0660 part 107, DIN EN 60947-3 resp. IEC 947-3 DC21-B for applications up to 60 V DC
Positiv opening	acc. to DIN VDE 0113
Short-circuit withstand capacity	24 kA_{eff} in series with NH 00 100 A gL-gG; 10 kA_{eff} in series with NH 00 125 A gL-gG
Rated voltage	230/400 V AC; 50/60 Hz
Surge withstand capability U_{imp}	4 kV acc. to EN 60947-1
Ambient temperature	-25 °C to +55 °C
Storage temperature	-40 °C to +70 °C
Climatic resistance	constant climate 23/83, 40/93, 55/20 [°C/RH] alternating climate 25/95 - 40/93 [°C/RH]
Mounting position	optional
Degree of protection	IP10 B (with add. task), IP40 in panelboard
Mechanical endurance	20000 switching cycles
Electrical endurance	1000 switching cycles
Min. voltage	12 V AC/DC at 0.1 VA
Min. contact loading	24 V/4 mA
Wire range	2.5 to 50 mm^2
Torque	5 Nm



2CDC 052 086 F0005


2CDC 051 002 F0004

3

No. of poles	rated voltage VAC	power loss W	order details type code	order code	bbn 4016779 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack. unit pc.
Rated current = 25A									
1NO	230V	0.30	**E201/25g**	2CDE281001R1025	**645638**			0.095	10
1NO	230V	0.30	**E201/25r**	2CDE281001R0025	**645645**			0.095	10
2NO	400V	0.60	**E202/25g**	2CDE282001R1025	**645812**			0.190	5
2NO	400V	0.60	**E202/25r**	2CDE282001R0025	**645829**			0.190	5
3NO	400V	0.90	**E203/25g**	2CDE283001R1025	**645997**			0.290	3
3NO	400V	0.90	**E203/25r**	2CDE283001R0025	**646000**			0.290	3
4NO	400V	1.20	**E204/25g**	2CDE284001R1025	**646178**			0.390	2
4NO	400V	1.20	**E204/25r**	2CDE284001R0025	**646185**			0.390	2
Rated current = 32A									
1NO	230V	0.50	**E201/32g**	2CDE281001R1032	**645652**			0.095	10
1NO	230 V	0.50	**E201/32r**	2CDE281001R0032	**645669**			0.095	10
2NO	400V	0.95	**E202/32g**	2CDE282001R1032	**645836**			0.190	5
2NO	400V	0.95	**E202/32r**	2CDE282001R0032	**645843**			0.190	5
3NO	400V	1.40	**E203/32g**	2CDE283001R1032	**646017**			0.290	3
3NO	400V	1.40	**E203/32r**	2CDE283001R0032	**646024**			0.290	3
4NO	400V	1.90	**E204/32g**	2CDE284001R1032	**646192**			0.390	2
4NO	400V	1.90	**E204/32r**	2CDE284001R0032	**646208**			0.390	2
Rated current = 40A									
1NO	230V	0.70	**E201/40g**	2CDE281001R1040	**645676**			0.095	10
1NO	230V	0.70	**E201/40r**	2CDE281001R0040	**645683**			0.095	10
2NO	400 V	1.40	**E202/40g**	2CDE282001R1040	**645850**			0.190	5
2NO	400V	1.40	**E202/40r**	2CDE282001R0040	**645867**			0.190	5
3NO	400V	2.10	**E203/40g**	2CDE283001R1040	**646031**			0.290	3
3NO	400V	2.10	**E203/40r**	2CDE283001R0040	**646048**			0.290	3
4NO	400V	2.80	**E204/40g**	2CDE284001R1040	**646215**			0.390	2
4NO	400V	2.80	**E204/40r**	2CDE284001R0040	**646222**			0.390	2
Rated current = 45A									
1NO	230V	0.90	**E201/45g**	2CDE281001R1045	**645690**			0.095	10
1NO	230V	0.90	**E201/45r**	2CDE281001R0045	**645706**			0.095	10
2NO	400 V	1.80	**E202/45g**	2CDE282001R1045	**645874**			0.190	5
2NO	400V	1.80	**E202/45r**	2CDE282001R0045	**645881**			0.190	5
3NO	400V	2.65	**E203/45g**	2CDE283001R1045	**646055**			0.290	3
3NO	400V	2.65	**E203/45r**	2CDE283001R0045	**646062**			0.290	3
4NO	400V	3.50	**E204/45g**	2CDE284001R1045	**646239**			0.390	2
4NO	400V	3.50	**E204/45r**	2CDE284001R0045	**646246**			0.390	2
Rated current = 63A									
1NO	230V	1.65	**E201/63g**	2CDE281001R1063	**645713**			0.095	10
1NO	230V	1.65	**E201/63r**	2CDE281001R0063	**645720**			0.095	10
2NO	400 V	3.30	**E202/63g**	2CDE282001R1063	**645898**			0.190	5
2NO	400V	3.30	**E202/63r**	2CDE282001R0063	**645904**			0.190	5
3NO	400V	4.90	**E203/63g**	2CDE283001R1063	**646079**			0.290	3
3NO	400V	4.90	**E203/63r**	2CDE283001R0063	**646086**			0.290	3
4NO	400V	6.55	**E204/63g**	2CDE284001R1063	**646253**			0.390	2
4NO	400V	6.55	**E204/63r**	2CDE284001R0063	**646260**			0.390	2

No. of poles	rated voltage VAC	power loss W	**order details** **type code**	**order code**	**bbn 4016779 EAN**	price 1 piece	price group	w'ght 1 pc. kg	pack. unit pc.
Rated current = 80A									
1NO	230V	2.60	**E201/80g**	2CDE281001R1080	**645737**			0.095	10
1NO	230V	2.60	**E201/80r**	2CDE281001R0080	**645744**			0.095	10
2NO	400V	5.15	**E202/80g**	2CDE282001R1080	**645911**			0.190	5
2NO	400V	5.15	**E202/80r**	2CDE282001R0080	**645928**			0.190	5
3NO	400V	7.75	**E203/80g**	2CDE283001R1080	**646093**			0.290	3
3NO	400V	7.75	**E 203/80r**	2CDE283001R0080	**646109**			0.290	3
4NO	400V	10.30	**E204/80g**	2CDE284001R1080	**646277**			0.390	2
4NO	400V	10.30	**E204/80r**	2CDE284001R0080	**646284**			0.390	2
Rated current = 100A									
1NO	230V	3.95	**E201/100g**	2CDE281001R1100	**645751**			0.095	10
1NO	230 V	3.95	**E201/100r**	2CDE281001R0100	**645738**			0.095	10
2NO	400V	7.90	**E202/100g**	2CDE282001R1100	**645935**			0.190	5
2NO	400V	7.90	**E202/100r**	2CDE282001R0100	**645942**			0.190	5
3NO	400V	11.85	**E203/100g**	2CDE283001R1100	**646116**			0.290	3
3NO	400V	11.85	**E203/100r**	2CDE283001R0100	**646123**			0.290	3
4NO	400V	15.80	**E204/100g**	2CDE284001R1100	**646291**			0.390	2
4NO	400V	15.80	**E204/100r**	2CDE284001R0100	**646307**			0.390	2
Rated current = 125A									
1NO	230V	6.10	**E201/125g**	2CDE281001R1125	**645775**			0.095	10
1NO	230V	6.10	**E201/125r**	2CDE281001R0125	**645782**			0.095	10
2NO	400 V	12.20	**E202/125g**	2CDE282001R1125	**645959**			0.190	5
2NO	400V	12.20	**E202/125r**	2CDE282001R0125	**645966**			0.190	5
3NO	400V	18.30	**E203/125g**	2CDE283001R1125	**646130**			0.33	3
3NO	400V	18.30	**E203/125r**	2CDE283001R0125	**645147**			0.33	3
4NO	400V	24.35	**E204/125g**	2CDE284001R1125	**645314**			0.44	2
4NO	400V	24.35	**E204/125r**	2CDE284001R0125	**645321**			0.44	2

MDRCs

Application: buildings, both residential and commercial

Description	order details type code	order code	bbn 40 16779 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack. unit pc.
Staircase lighting time delay switches	**E232-230**	2CDE 110 000 R0501	548243			0.081	1

Description	order details type code	order code	bbn 80 12542 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack. unit pc.
Load shedding switch	**LSS1/2**	2CSM 112 500 R1311	**274407**			0.400	1
Failsafe transformer 10-20-30VA rated power, 4-8-12V secondary rated voltage	**TM30/12**	2CSM 301 021 R0801	**367505**			0.450	1
Bell transformer input 230V, output 12V/1.33A	**TS 16/12**	2CSM 161 401 R0811	**368908**			0.300	1
Electro-mechanical modular bell 230VAC	**SM1/230**	2CSM 131 000 R0821	**326304**			0.100	12
Modular buzzer 230VAC	**RM1/230**	2CSM 231 000 R0821	**334507**			0.100	12
Modular electronic bell 12VAC+10 VA transformer (two-tones), 2 modules	**TSM**	2CSM 100 000 R0841	**007005**			0.300	6
Bell+buzzer+transformer, 2 modules, 24VAC	**TSR**	2CSM 100 000 R0831	**369608**			0.300	1
Daily program timer switch with standby battery (3 years), 1 channel	**DTS 1/1**	2CSM 111 000 R0601	**506607**			0.150	1
Digital time switches 2CO contact complement, 30 memory location	**DTS 7/2**	2CSM 122 000 R0601	**506805**			0.150	1
Twilight switches with sensor LS-1 with built-in weekly program timer switch	**DTS7/2-TWS**	2CSM 122 300 R1351	**507307**			0,350	1
Installation relays, Uc=230VAC or 115VDC, 1 NO	**E 259 R10-230**	2CSM111000R0401	**532804**			0.100	10
Installation relays, Uc=230VAC or 115VDC, 2 NO	**E 259 R20-230**	2CSM112000R0401	**533603**			0.100	10
Latching relays, Uc=230VAC or 115VDC, 1 NO	**E 251-230**	2CSM 111 000 R0201	**530305**			0.114	12
Latching relays, Uc=230VAC or 115VDC,2NO	**E 252-230**	2CSM 112 000 R0201	**530800**			0.116	12
Latching relays, Uc=230VAC or 115VDC, series	**E 255-230**	2CSM 119 000 R0201	**531302**			0.121	12
Latching relays, Uc=230VAC or 115VDC, 1 NO + 1NC	**E 256-230**	2CSM 114 000 R0201	**531708**			0.116	12

Description	order details type code	order code	bbn 80 12542 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack. unit pc.
Surge protection devices, class II, Imax=40kA, In=15kA, Up=1.2kV, Un=230V, Uc=275V	**OVR 1N 40 275 P**	2CTB 8139 52 R 11 00	**506030**			0.220	1
Surge protection devices, class II, Imax=40kA, In=15kA, Up=1.2kV, Un=230V, Uc=275V	**OVR 3N 40 275 P**	2CTB 8139 53 R 11 00	**506283**			0.220	1

N.B.: for more information about these products and to know the complete range, see the technical catalogue