

2CSC400003B0202



Summary

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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:



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



Compact Home Introduction

1

Family: F 200 = RCCBs
 H for HOME
 N° of poles: 2; 4
 Type: AC, A

Sensitivity: 0,03A, 0,1A ...

Current: 25A; 40A; 63A

Indication of device's rated voltage

Indication of short circuit coordination performance:
 $I_m = I_{\Delta m} = 1000A$
 $I_m = I_{dm} = 1000A$
 $I_{nc} = 6000kA$ with a gL 63A fuse

Wiring diagrams to prevent from a wrong connection

Failsafe bi-directional cylinder-lift terminal at top and bottom

Indication of the marks and approvals the devices have been obtained

Test button to be tested monthly

Laserprint on side of mounting instruction and of the symbol which means that the circuit-breaker must be thrown away separately

Black toggle to identify Compact Home range

ABB identity number for a quickly identification of the product

for more information about this products, see the technical catalogue



Compact Home Introduction



Cage terminals up and bottom

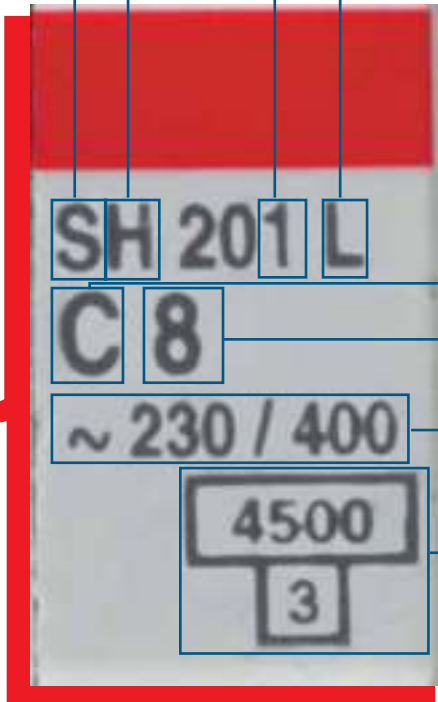
Family: S 200 = MCBs

H for HOME

N° of poles:
1; 1+N; 2; 3; 3+N; 4

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

Wiring diagrams to prevent wrong connection on all pole versions



SH 201 L

Characteristic: B, C

C 8

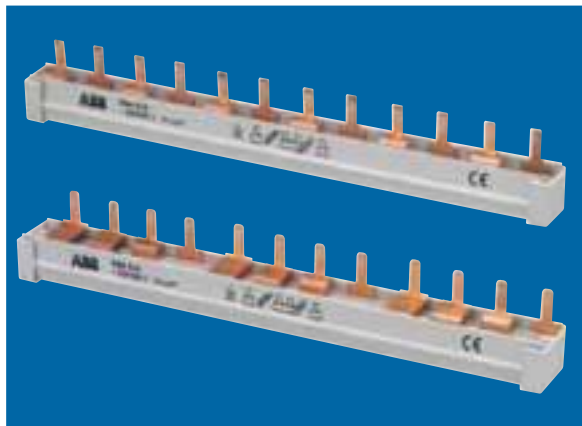
Rated current:
6A; 10A; ... 63A

~ 230 / 400

Indication of MCB rated voltage

4500
3

Indication of MCB breaking capacity and limitation class



for more information about this products, see the technical catalogue



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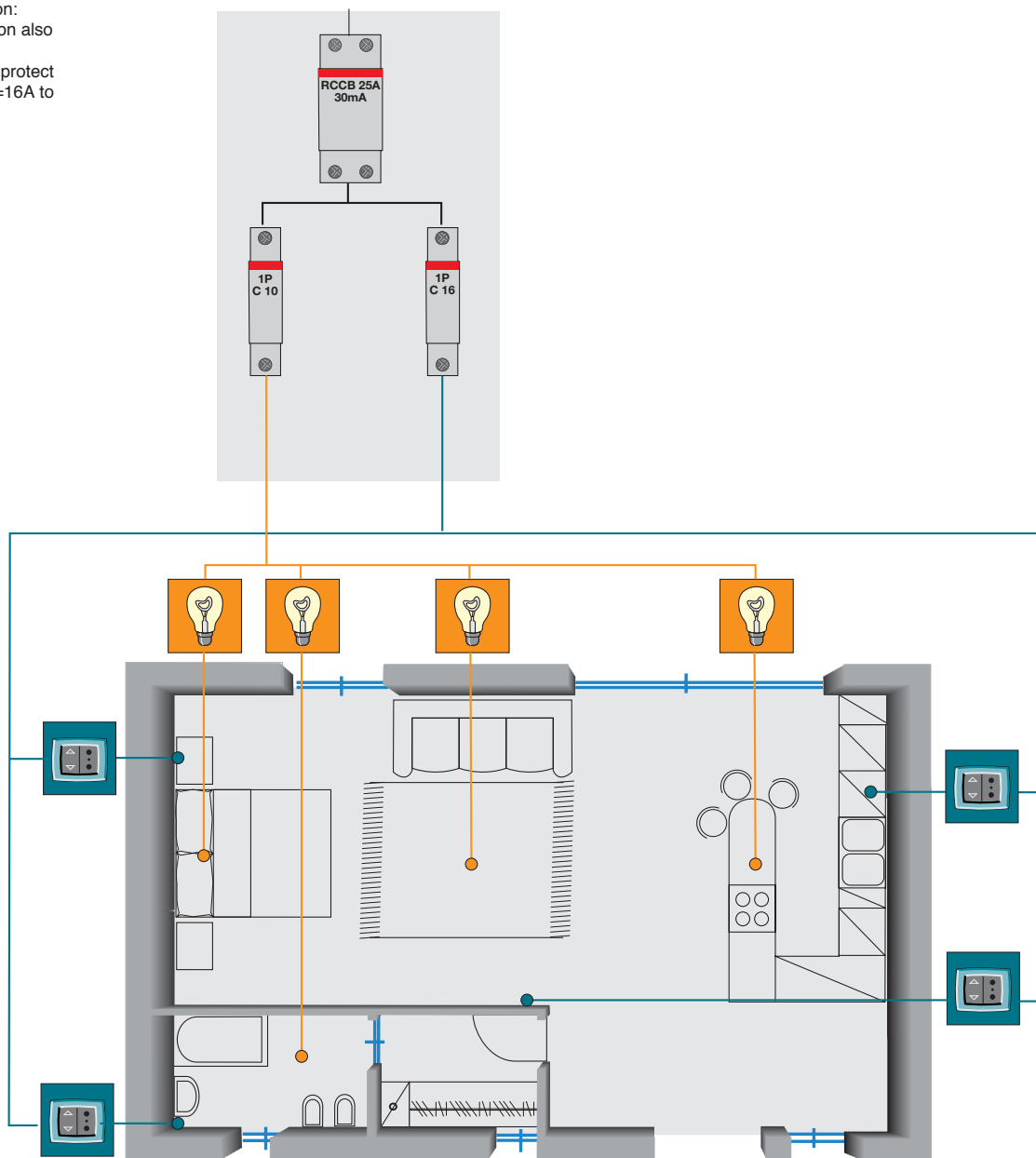
Basic solution for consumer units installed in a little flat (<35 m ²)	2/2
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Compact Home Application sheets

Basic solution for consumer units installed in a little flat (<math><35\text{ m}^2</math>)

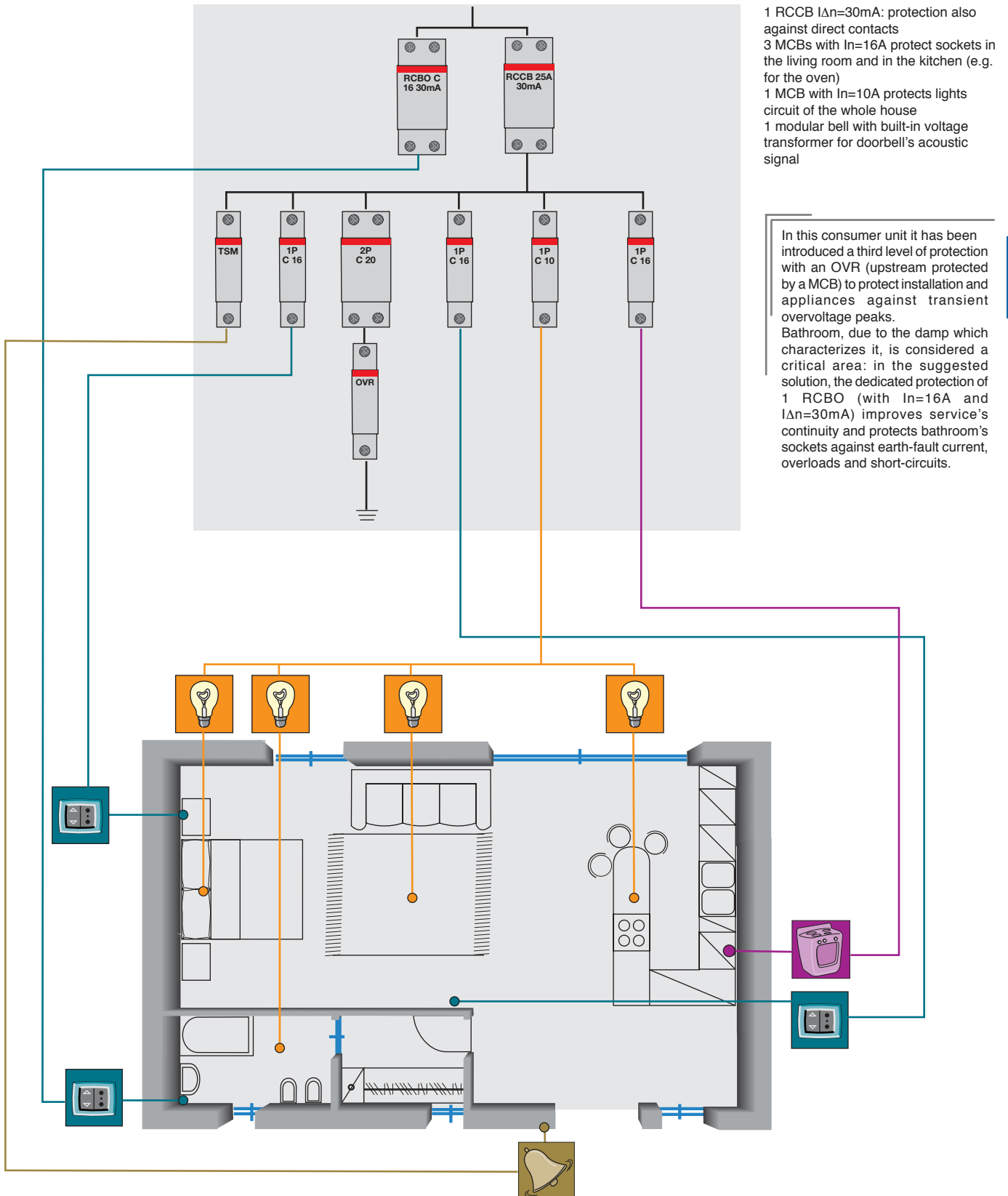
The simplest possible solution:
1 RCCB $I_{\Delta n}=30\text{mA}$: protection also against direct contacts
2 MCBs: one with $I_n=10\text{A}$ to protect lights circuit and one with $I_n=16\text{A}$ to protect sockets circuit

2



Compact Home Application sheets

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

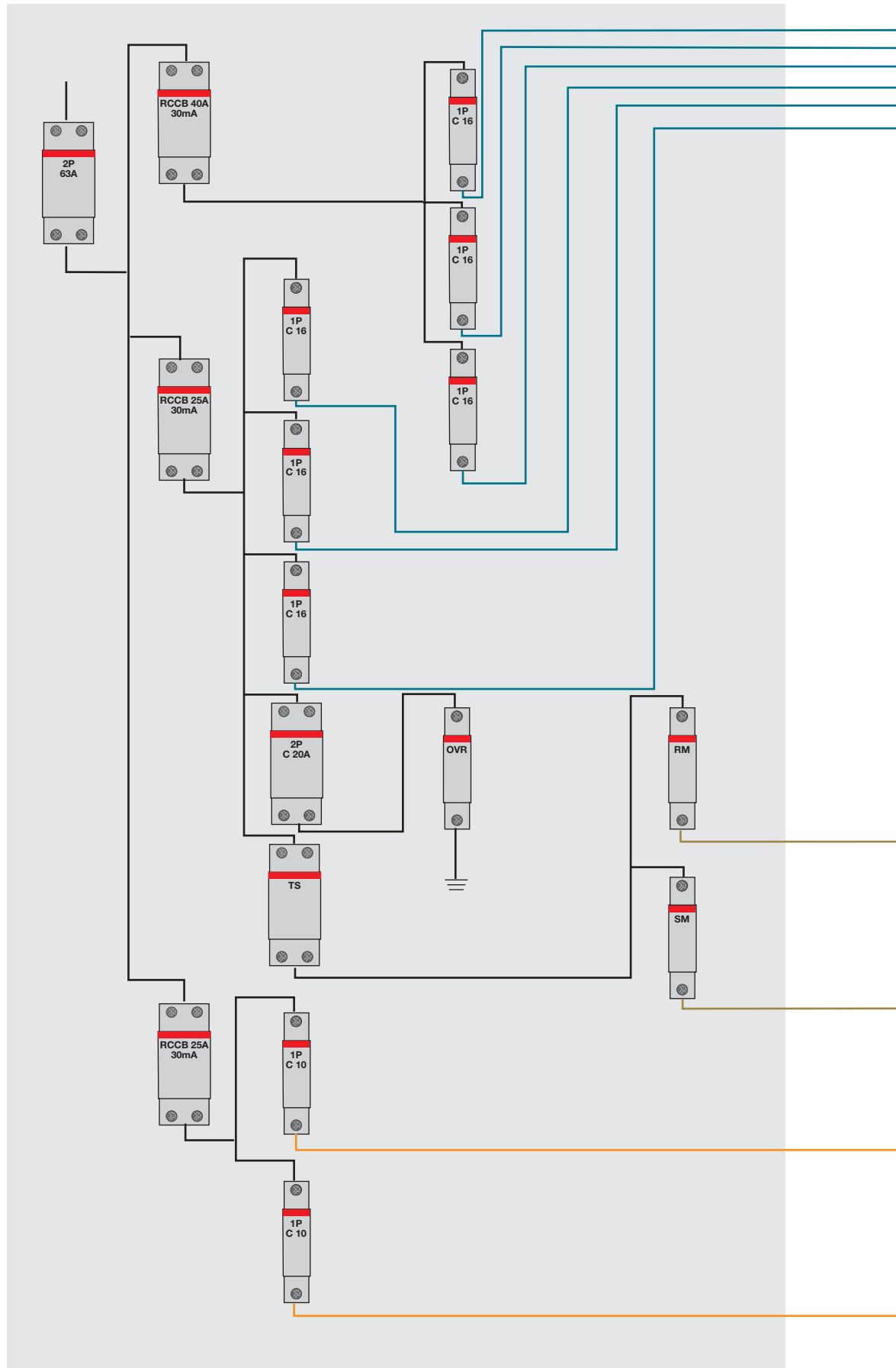


Compact Home Application sheets

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

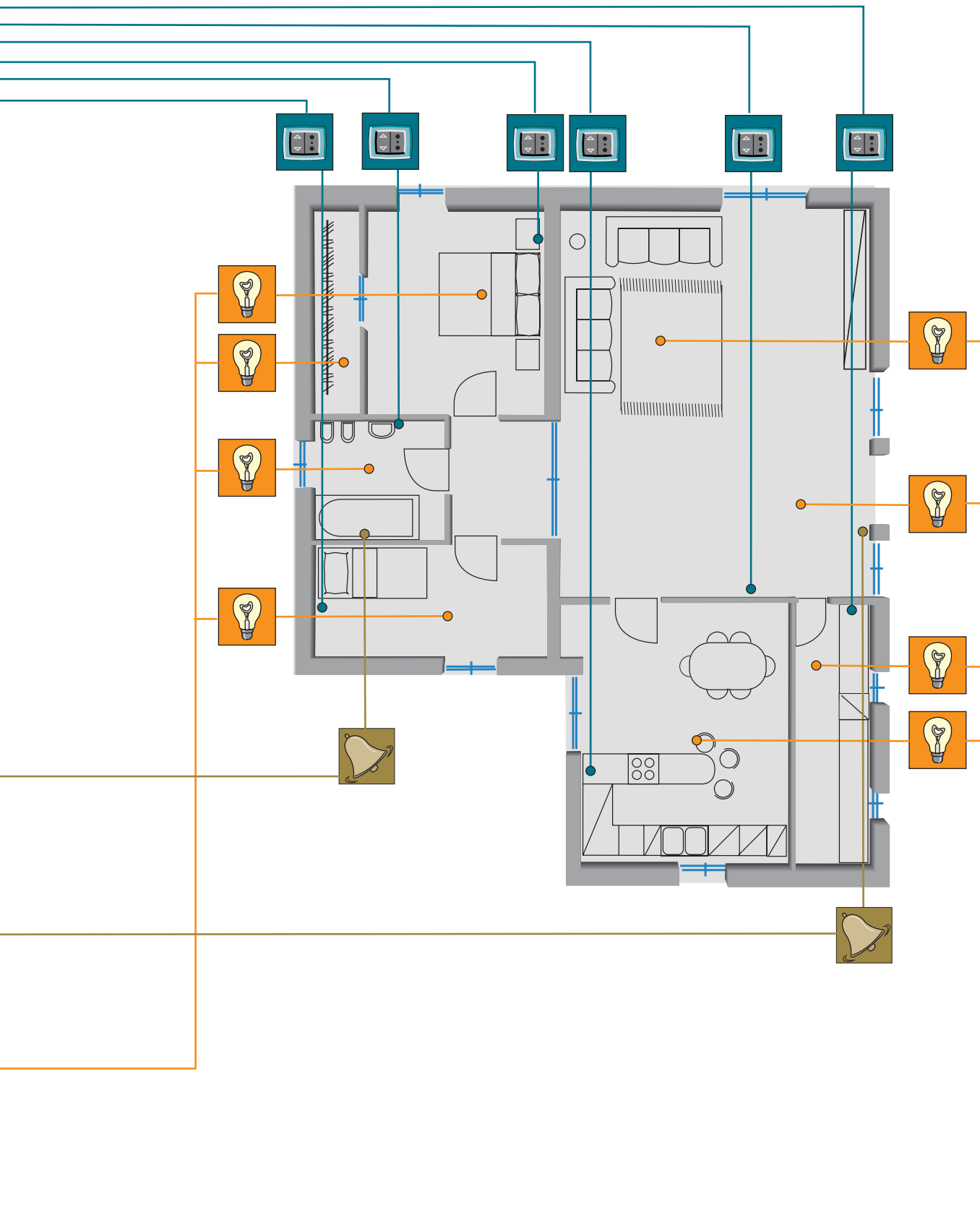
- 1 MCB used as main switch of the consumer unit
- 3 RCCBs: one with In=40A protects sockets circuit of the living room, kitchen and laundry-room and two with In=25A protect respectively sockets circuit of the bedrooms and bathroom and lights circuit of the whole house
- 2 MCBs In=10A protect lights 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.



Compact Home Application sheets

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



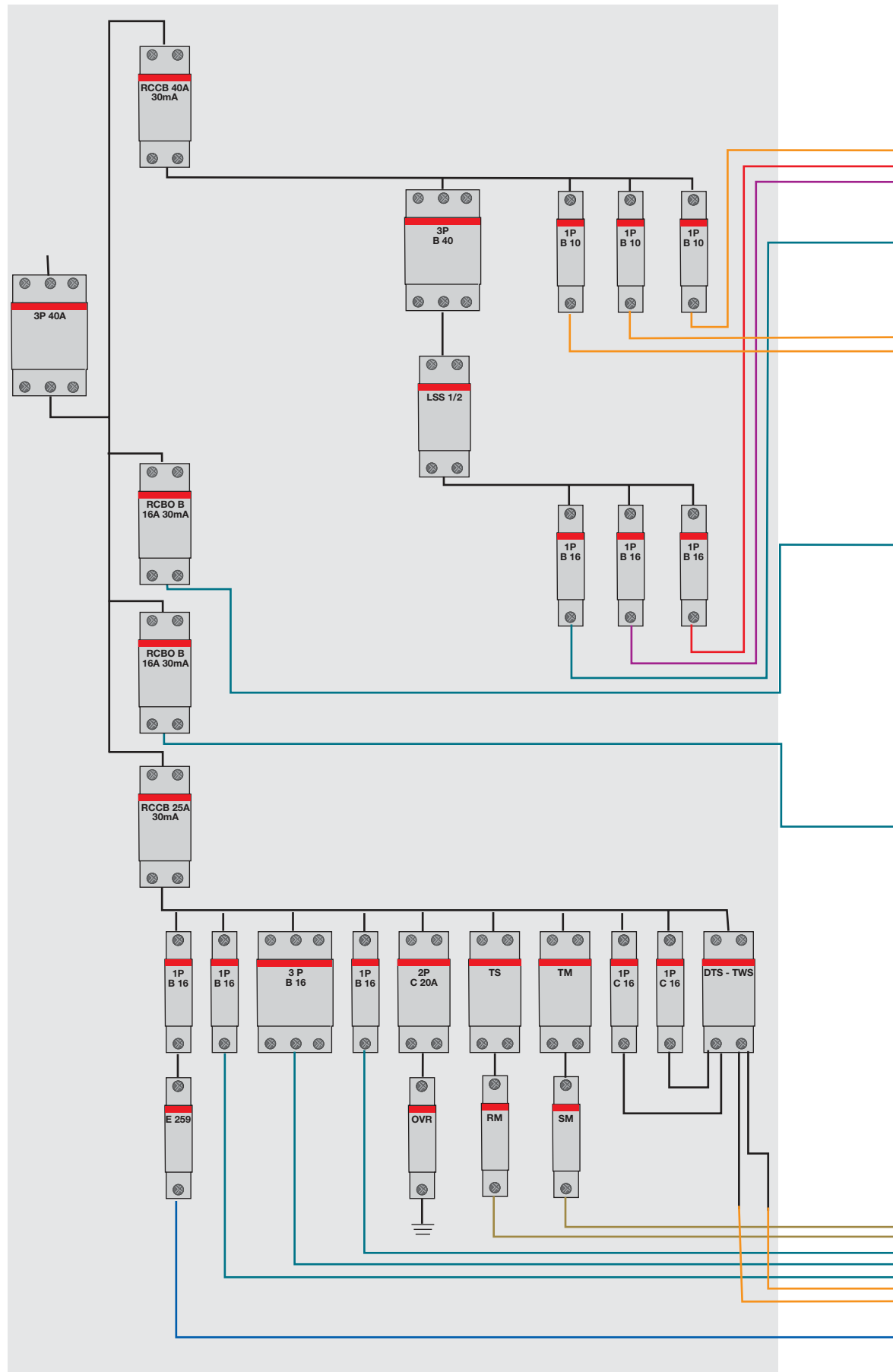
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Compact Home Application sheets

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

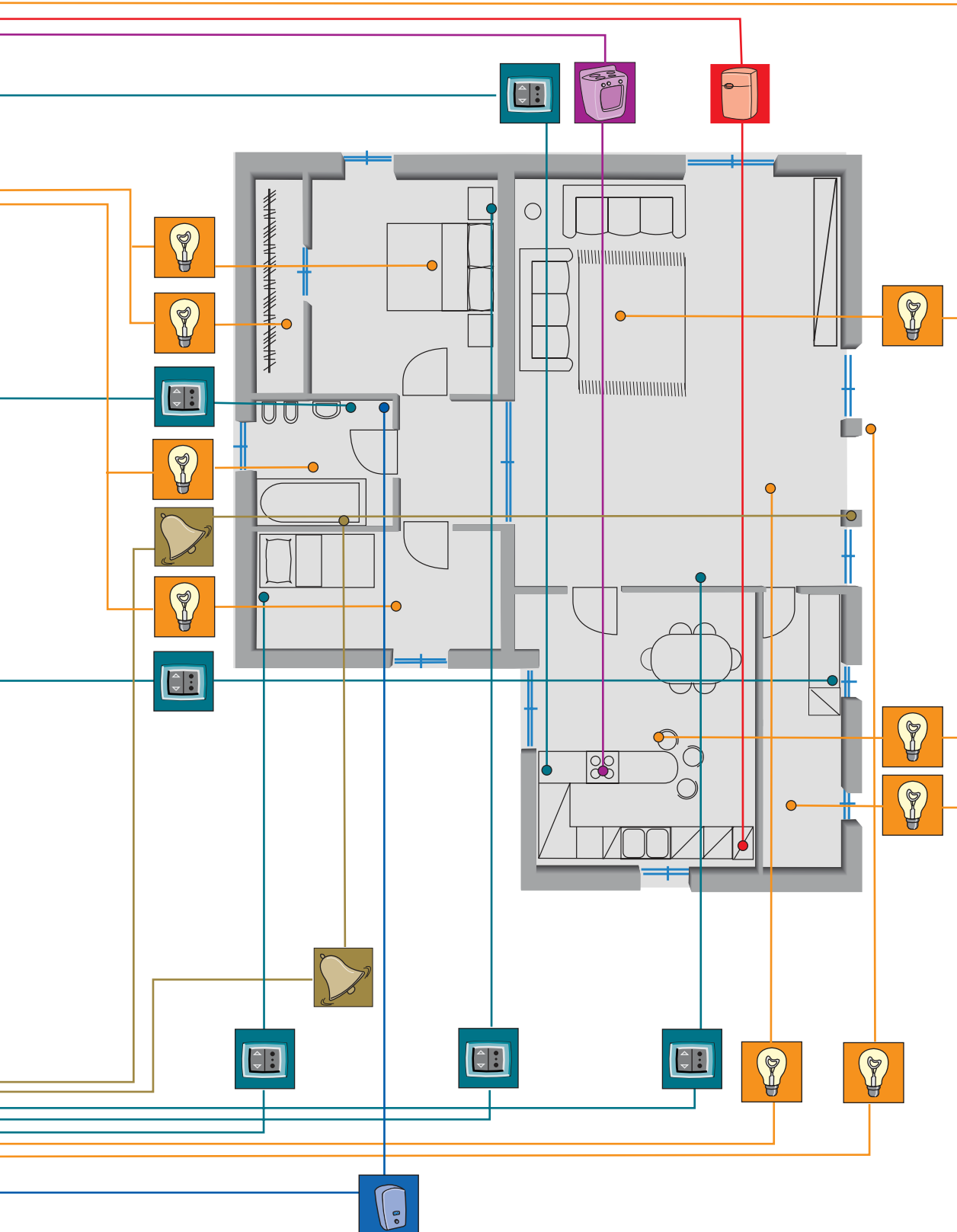
- 1 MCB used as main switch of the consumer unit
- 2 RCCBs: one with In=40A protects sockets circuit and electric household appliances in the kitchen and one with In=25A protects remaining sockets and all the other devices
- 2 RCBOs protect separately sockets circuits of the bathroom and of the laundry
- 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.



Compact Home Application sheets

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



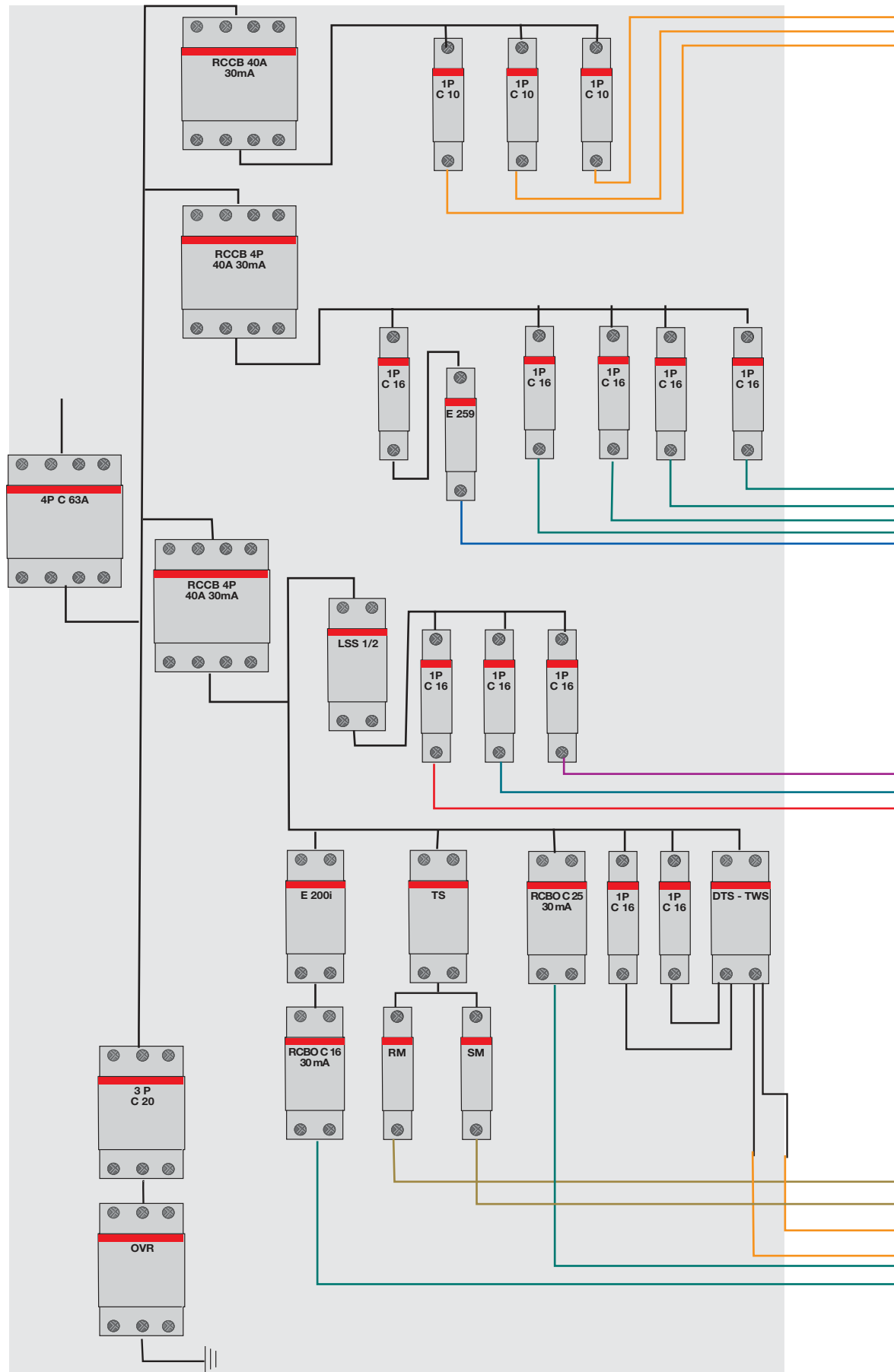
2

Compact Home Application sheets

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

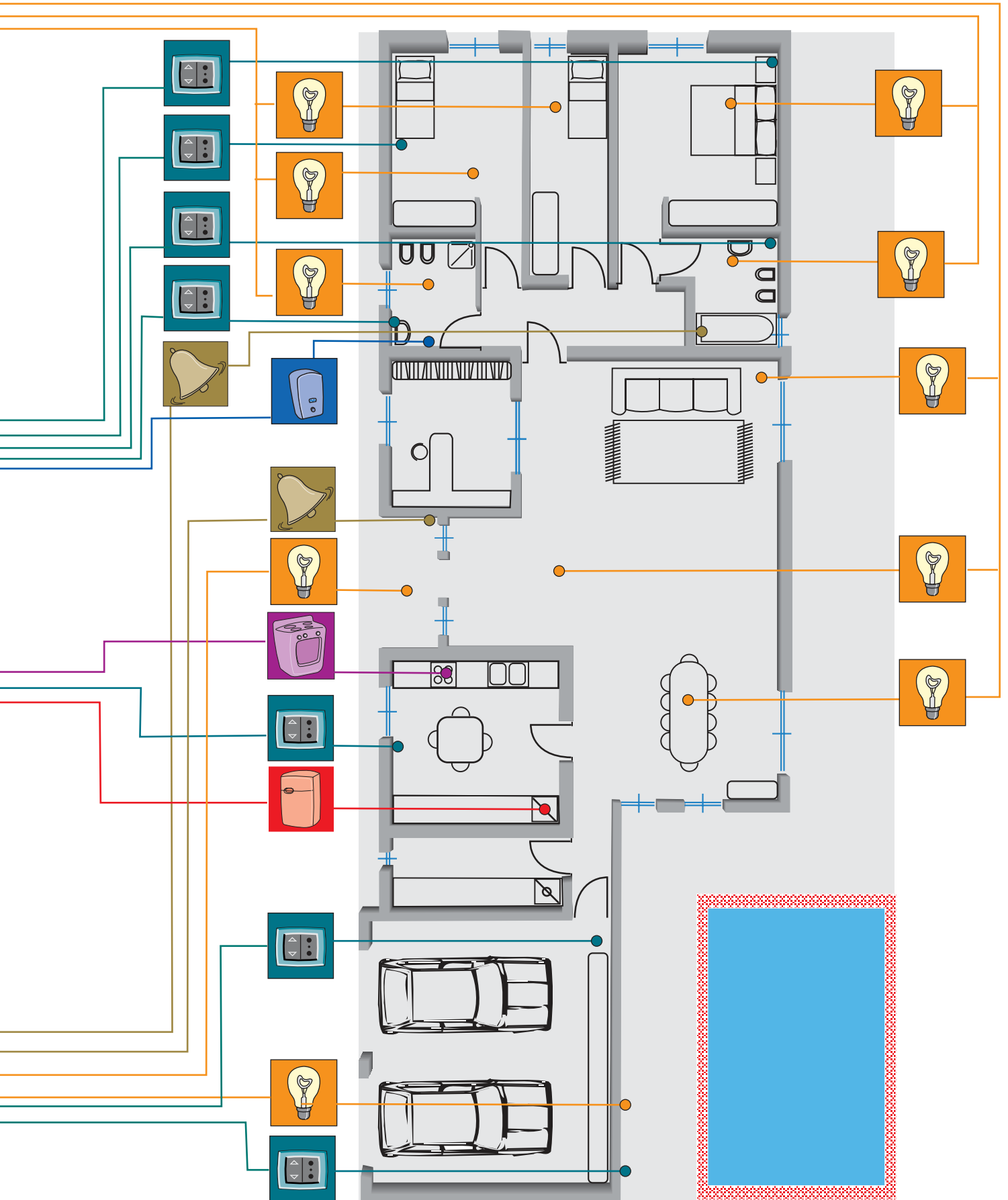
- 1 MCB used as main switch of the consumer unit
- 3 RCCBs with In=40A protect sockets and lights circuits of the house
- 2 RCBOs protect separately sockets in the garage and in the swimming pool
- 13 MCBs In=16A or In=10A protect sockets and lights circuits of the house
- 1 OVR protects against transient 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).



Compact Home Application sheets

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

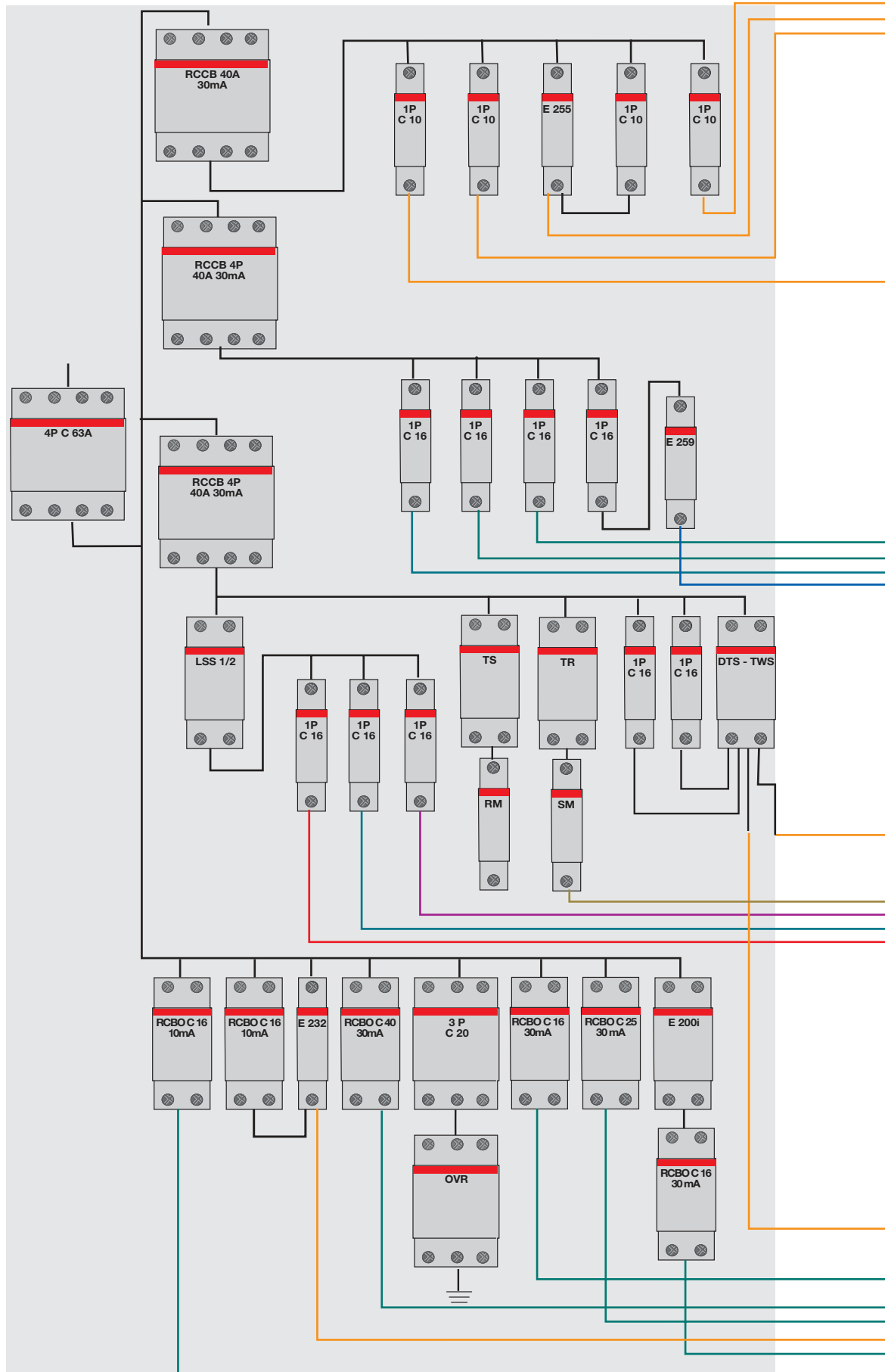


2

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

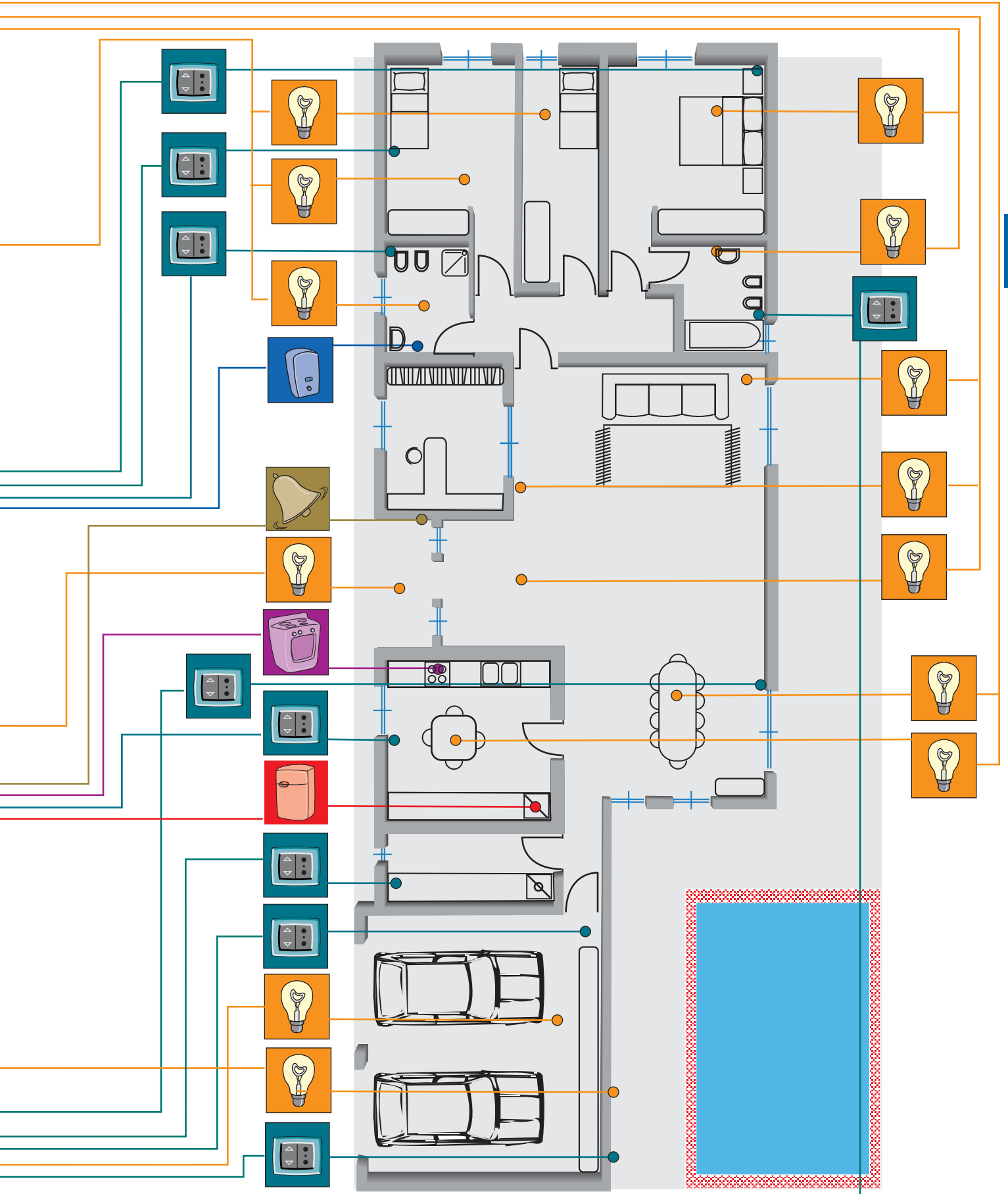
- 1 MCB used as main switch of the consumer unit
- 3 RCCBs protect sockets and lights circuits of the house
- 6 RCBOs protect separately the critical lines of the house
- 13 MCBs In=16A or In=10A protect sockets and lights circuits of the whole house
- 1 OVR protects against transient overvoltage peaks
- 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.



Compact Home Application sheets

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



2

Easy to handle –

● The MCB's Compact Home are equipped with 25 mm² 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 mm² or even conductors with different cross sections e.g. 1 x 6 mm² and 1 x 2.5mm².

● 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 mm² 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.

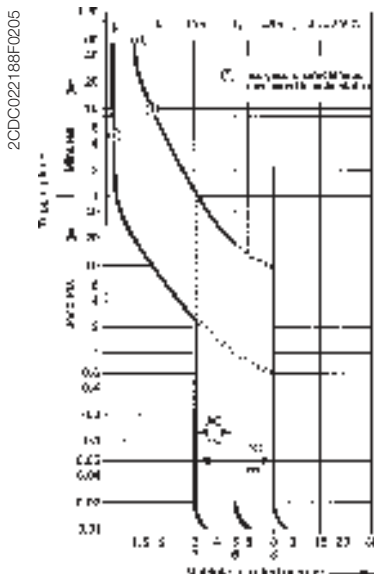
Compact Home Technical features of MCBs SH 200 series

SH 200

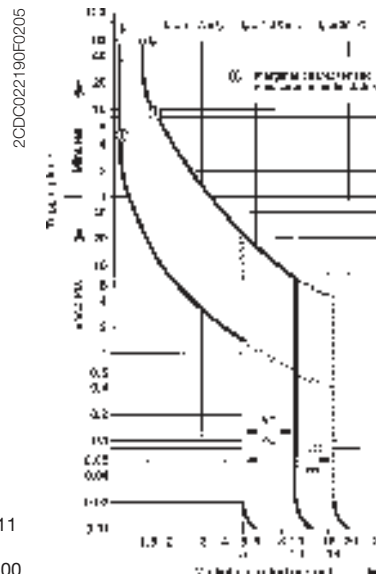
SH 200 T SH 200 L SH 200

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
Mechanical features	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 characteristic	B: $3 I_n \leq I_m \leq 5 I_n$	•			•
		C: $5 I_n \leq I_m \leq 10 I_n$	•			•
	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					
Installation	Tropicalization acc. to IEC/EN 60068-2	humid heat	°C/RH	28 cycles with 55/95...100		
		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 $\leq +35^\circ\text{C}$)	IEC	°C	-25...+55		
	Storage temperature	°C	-40...+70			
	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 characteristic B
acc. to DIN VDE 0641 part 11
 $I_n = 6 \dots 40 \text{ A}$
SH 200 T / SH 200 L / SH 200



Tripping characteristic C
acc. to DIN VDE 0641 part 11
 $I_n = 0.5 \dots 40 \text{ A}$
SH 200 T / SH 200 L / SH 200

Compact Home

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		Range SH 200 L		Range SH 200	
		B, C m	W	B, C m	W	B, C 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 characteristic	Thermal trips ①			Electromagnetic trips ②		Tripping-time
		Test currents: Low test current I_1	High test current I_2	Tripping-time	Test currents: hold current surges of	trip at least at	
IEC/EN 60898	B	$1.13 \cdot I_n$	$1.45 \cdot I_n$	$> 1 \text{ h}$ $< 1 \text{ h}$ ③	$3 \cdot I_n$	$5 \cdot I_n$	$0.1 \text{ s} \dots 45 \text{ s} \leq 32 \text{ A} / 0.1 \text{ s} \dots 90 \text{ s} \geq 32 \text{ A}$ $< 0,1 \text{ s}$
	C	$1.13 \cdot I_n$	$1.45 \cdot I_n$	$> 1 \text{ h}$ $< 1 \text{ h}$ ③	$5 \cdot I_n$	$10 \cdot I_n$	$0.1 \text{ s} \dots 45 \text{ s} \leq 32 \text{ A} / 0.1 \text{ s} \dots 30 \text{ s} \geq 32 \text{ A}$ $< 0,1 \text{ s}$

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 $I_1 > 1 \text{ h}$ 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 temperature 30 °C for B- and C-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

Compact Home

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

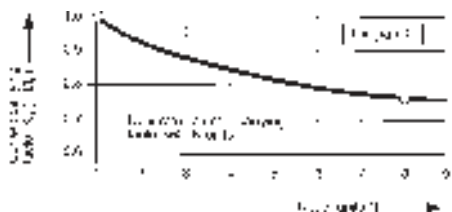
Max. operating current depending on the ambient temperature of a circuit-breaker in load circuit of characteristics type B, C and D

B, C	Ambient temperature T (°C)									
	-30	-20	-10	0	10	20	30	40	50	60
In (A)										
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

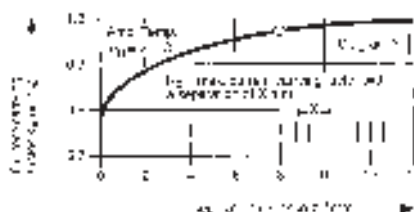
Mutual thermal influence in the case of simultaneous load

MCB's mounted in a row side bay side

MCB's mounted with a separating distance X



SK 0080 Z 93



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	1 a resp. 1 b	$I = I_n \cdot K_0$	$16 \cdot 1.07 = 17.1 \text{ A}$
Continuous load > 1 h		$I = 0.9 \cdot I_n \cdot K_0$	$0.9 \cdot 16 \cdot 1.07 = 15.4 \text{ A}$
Continuous load, N M.C.B.'s, Distance 0	2	$I = 0.9 \cdot K_0 \cdot K_N$	$0.9 \cdot 16 \cdot 1.07 \cdot 0.77 = 11.9 \text{ A}$
Continuous load, N M.C.B.'s, Distance X	3	$I = 0.9 \cdot K_0 \cdot K_X$	$0.9 \cdot 16 \cdot 1.07 \cdot 0.98 = 15.1 \text{ A}$

Compact Home

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 $U_0 = 230\text{ V} \sim$ ①
to ensure compliance with the operation conditions pursuant to IEC 60364-4.
Operating time $< 0.4\text{ s}$; at $400\text{ V} \sim < 0.2\text{ s}$ and at $> 400\text{ V} \sim < 0.1\text{ s}$
The instantaneous release of the MCB ensures an operating time of $\leq 0.1\text{ s}$ (TN system).**

Determined according to DIN VDE 0100-520 sheet 2:2002-11 (source impedance = $300\ \Omega$, $c = 0.95$ and conductor temperature $70\text{ }^\circ\text{C}$ = 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 $U_0 = 240\text{ V} \sim$ is $Z_s \cdot 1.04$; for $U_0 = 127\text{ V} \sim$ is $Z_s \cdot 0.55$

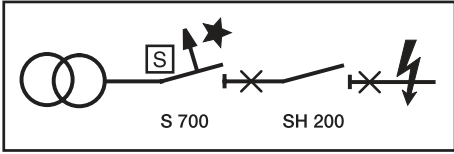
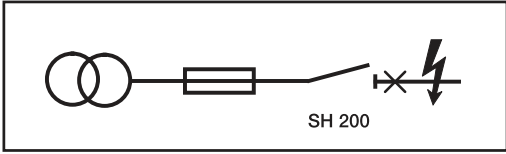
Take into account the voltage drop:

e.g. in the case of a 1.5 mm^2 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.

Compact Home

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

MCBs	short circuit discrimination in kA																		
	 S 700 SH 200 SK 0112 Z 99 to main circuit breaker S 700	 SH 200 SK 0113 Z 99 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	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	0.3	0.6	1.4	2.4	2.6	3	3	3	3	3
	10	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	3	3
	13	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	3	3
	16	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	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	3	3	3	3
	25	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	1.0	2.0	2.5	2.5	3	3	3	3	3	3
	32	**	4,5	4,5	4,5	4,5	4,5	4,5	4,5	no selectivity	1.9	2.5	2.5	3	3	3	3	3	3
	40		4,5	4,5	4,5	4,5	4,5	4,5	4,5	1.5	2	2	2	2	2	2	2	2	2
SH 200 L – B, C	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	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	0.3	0.6	1.4	2.3	3	4	4.5	4.5	4.5	4.5
	13	6	6	6	6	6	6	6	6	0.5	1.3	2	3	4	4.5	4.5	4.5	4.5	
	16	6	6	6	6	6	6	6	6	1	1.8	2.5	3.5	4.5	4.5	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	4.5	4.5		
	25	6	6	6	6	6	6	6	6	1.5	2.2	3	4	4.5	4.5	4.5			
	32	**	6	6	6	6	6	6	6	no selectivity	2	2.8	3.5	4.5	4.5				
	40		6	6	6	6	6	6	6	2	2.5	3	4.5	4.5					
SH 200 – B, C	6	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	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	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	8	8	0.7	1.5	2.5	3.5	5	6	6	6	6	
	20	10	10	10	10	10	10	8	8	1.3	2	2.9	4.1	6	6	6	6		
	25	10	10	10	15	10	8	8	1.8	2.6	3.5	5	6	6					
	32	**	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.

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MCBs SH 200 series T

3000

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.

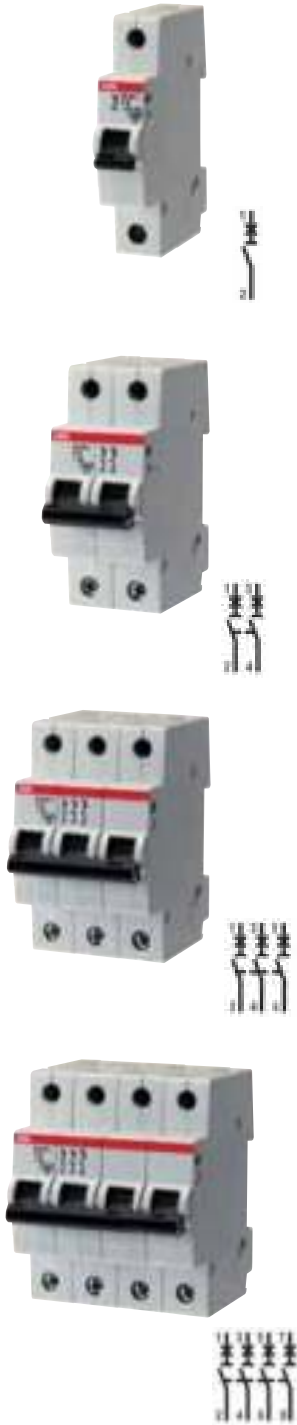
Applications: buildings, both residential and commercial

Standard: IEC/EN 60898

I_{cn}=3kA

No. of poles	rated current I _n A	order details		bbn 40 16779 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack. unit pc.
		type code	order code					
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
	32	SH 201 T-B 32	2CDS 231 001 R0325	63205 8			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
	25	SH 202 T-B 25	2CDS 232 001 R0255	63237 9			0.25	5
	32	SH 202 T-B 32	2CDS 232 001 R0325	63239 3			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
	32	SH 203 T-B 32	2CDS 233 001 R0325	63256 0			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
	25	SH 204 T-B 25	2CDS 234 001 R0255	63288 1			0.5	1
	32	SH 204 T-B 32	2CDS 234 001 R0325	63290 4			0.5	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		bbn 40 16779 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack. unit pc.
		type code	order code					
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
	32	SH 201 T-B 32 NA	2CDS 231 103 R0325	63222 5			0.25	5
U _{Bmax} 440 V ~ 60 V ...	40	SH 201 T-B 40 NA	2CDS 231 103 R0405	63224 9			0.25	5
	<hr/>							
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
	32	SH 203 T-B 32 NA	2CDS 233 103 R0325	63273 7			0.5	1
U _{Bmax} 440 V ~	40	SH 203 T-B 40 NA	2CDS 233 103 R0405	63275 1			0.5	1

3

MCBs SH 200 series T

3000

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.

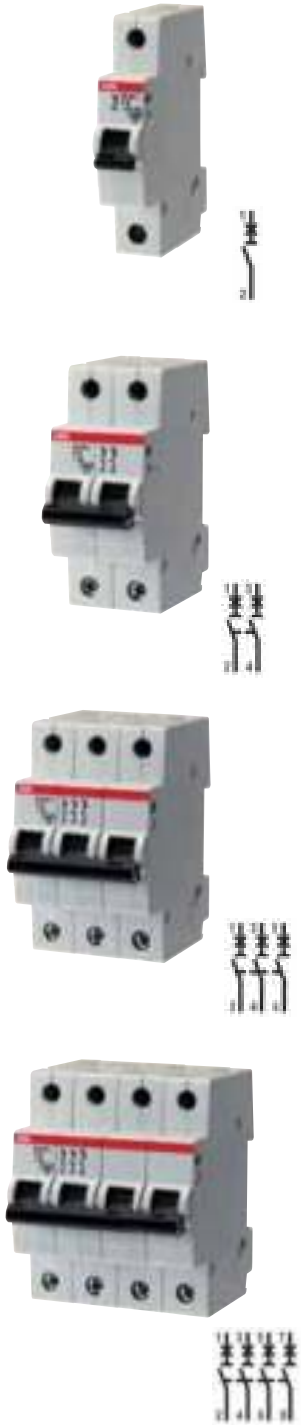
Applications: buildings, both residential and commercial

Standard: IEC/EN 60898

I_{cn}=3kA

No. of poles	rated current I _n A	order details		bbn 40 16779 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack. unit pc.
		type code	order code					
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
	32	SH 201 T-C 32	2CDS 231 001 R0324	63204 1			0.125	10
	40	SH 201 T-C 40	2CDS 231 001 R0404	63206 5			0.125	10
	U _{Bmax} 440 V ~							
60 V ...								
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
	25	SH 202 T-C 25	2CDS 232 001 R0254	63236 2			0.25	5
	32	SH 202 T-C 32	2CDS 232 001 R0324	63238 6			0.25	5
	40	SH 202 T-C 40	2CDS 232 001 R0404	63240 9			0.25	5
	U _{Bmax} 440 V ~							
125 V ...								
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
	40	SH 203 T-C 40	2CDS 233 001 R0404	63257 7			0.375	1
	U _{Bmax} 440 V ~							
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-C 16	2CDS 234 001 R0164	63283 6			0.5	1
	20	SH 204 T-C 20	2CDS 234 001 R0204	63285 0			0.5	1
	25	SH 204 T-C 25	2CDS 234 001 R0254	63287 4			0.5	1
	32	SH 204 T-C 32	2CDS 234 001 R0324	63289 8			0.5	1
	40	SH 204 T-C 40	2CDS 234 001 R0404	63291 1			0.5	1
	U _{Bmax} 440 V ~							
125 V ...								

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



MCBs SH 200 series T

3000



With disconnecting neutral NA

No. of poles	rated current I_n A	order details		bbn EAN	price 1 piece	price group	w/ght 1 pc. kg	pack. unit pc.
		type code	order code					
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 ~ 60 V ...	32	SH 201 T-C 32 NA	2CDS 231 103 R0324	63221 8			0.25	5
	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

3

MCBs SH 200 series L

4500

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.

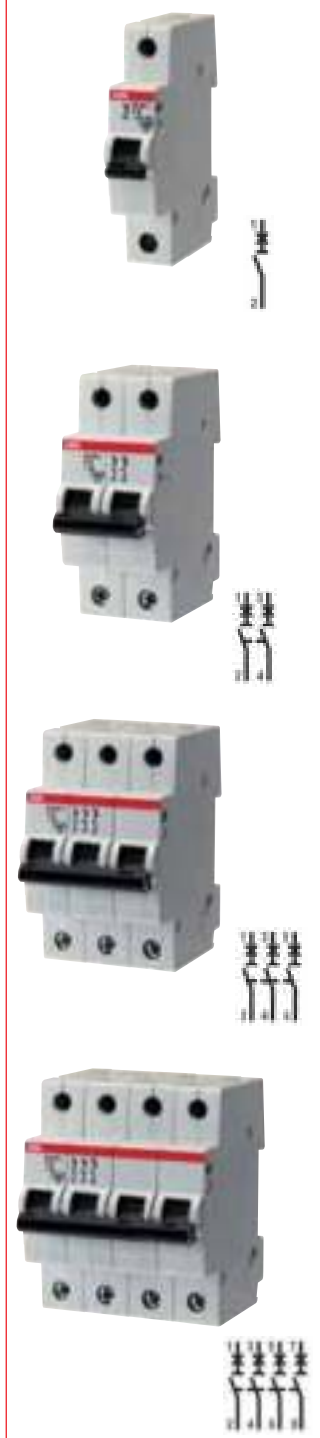
Applications: buildings, both residential and commercial

Standard: IEC/EN 60898

I_{cn}=4.5kA

No. of poles	rated current I _n A	order details		bbn 40 16779 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack. unit pc.
		type code	order code					
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
	25	SH 201 L-B 25	2CDS 241 001 R0255	63305 5			0.125	10
	32	SH 201 L-B 32	2CDS 241 001 R0325	63307 9			0.125	10
	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
	25	SH 202 L-B 25	2CDS 242 001 R0255	63339 0			0.25	5
	32	SH 202 L-B 32	2CDS 242 001 R0325	63341 3			0.25	5
	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
	32	SH 203 L-B 32	2CDS 243 001 R0325	63358 1			0.375	1
	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
	25	SH 204 L-B 25	2CDS 244 001 R0255	63390 1			0.5	1
	32	SH 204 L-B 32	2CDS 244 001 R0325	63392 5			0.5	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



MCBs SH 200 series L

4500

B



With disconnecting neutral NA

No. of poles	rated current I_n A	order details		bbn 40 16779 EAN	price 1 piece	price group	w/ght 1 pc. kg	pack. unit pc.
		type code	order code					
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
	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

3

MCBs SH 200 series L

C

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.

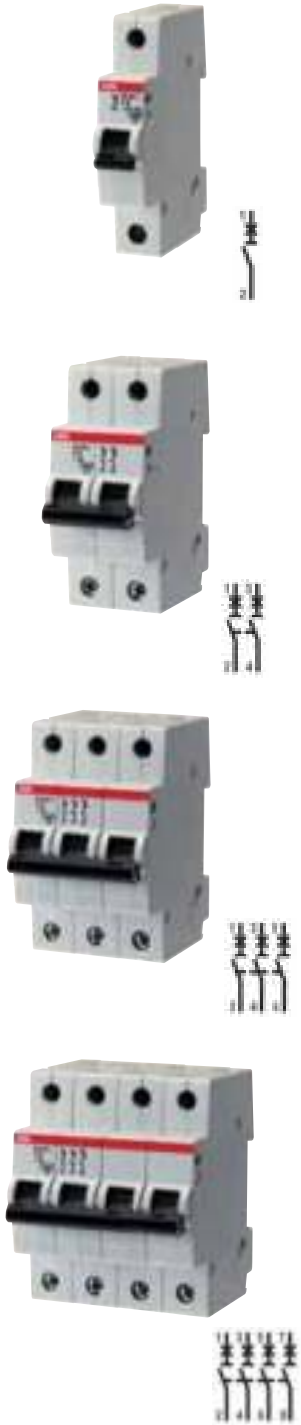
Applications: buildings, both residential and commercial

Standard: IEC/EN 60898

I_{cn}=4.5kA

No. of poles	rated current I _n A	order details		bbn 40 16779 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack. unit pc.	
		type code	order code						
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	
	6	SH 202 L-C 6	2CDS 242 001 R0064	63327 7			0.25	5	
2	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	
	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	
U _{Bmax} 440 V ~ 125 V ∴	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	
U _{Bmax} 440 V ~	32	SH 203 L-C 32	2CDS 243 001 R0324	63357 4			0.375	1	
	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	
25		SH 204 L-C 25	2CDS 244 001 R0254	63389 5			0.5	1	
U _{Bmax} 440 V ~ 125 V ∴	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



With disconnecting neutral NA

No. of poles	rated current I _n , A	order details		bbn 40 16779 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack. unit pc.	
		type code	order code						
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	
	32	SH 201 L-C 32 NA	2CDS 241 103 R0324	63323 9			0.25	5	
U _{Bmax} 440 V ~ 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
32		SH 203 L-C 32 NA	2CDS 243 103 R0324	63374 1			0.5	1	
U _{Bmax} 440 V ~	40	SH 203 L-C 40 NA	2CDS 243 103 R0404	63376 5			0.5	1	

3

MCBs SH 200 series

6000

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.

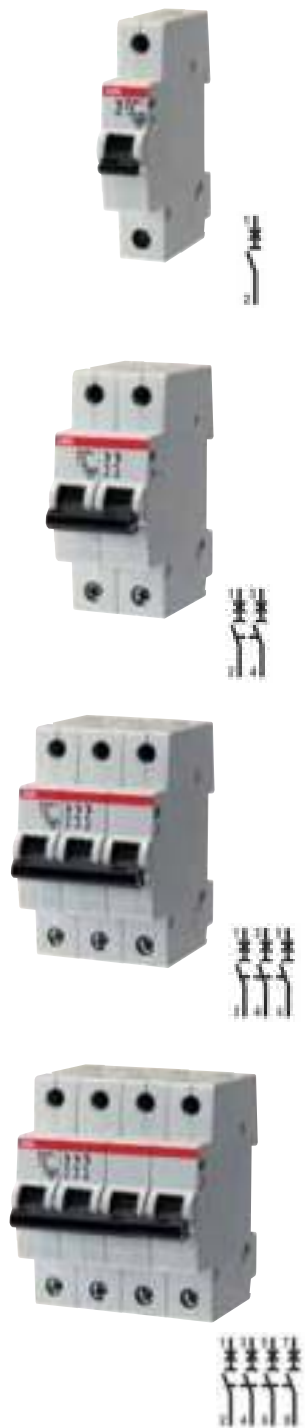
Applications: buildings, both residential and commercial

Standard: IEC/EN 60898

I_{cn}=6kA

No. of poles	rated current I _n A	order details		bbn 40 16779 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack. unit pc.
		type code	order code					
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
	32	SH 201-B 32	2CDS 211 001 R0325	63071 9			0.125	10
U _{Bmax} 440 V ~ 60 V ∴	40	SH 201-B 40	2CDS 211 001 R0405	63073 3			0.125	10
	<hr/>							
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
	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
U _{Bmax} 440 V ~ 125 V ∴ ①	40	SH 202-B 40	2CDS 212 001 R0405	63119 8			0.25	5
	<hr/>							
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
	32	SH 203-B 32	2CDS 213 001 R0325	63140 2			0.375	1
U _{Bmax} 440 V ~	40	SH 203-B 40	2CDS 213 001 R0405	63142 6			0.375	1
	<hr/>							
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
	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
U _{Bmax} 440 V ~ 125 V ∴ 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



MCBs SH 200 series

6000

B



With disconnecting neutral NA

No. of poles	rated current I_n A	order details		bbn 40 16779 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack. unit pc.
		type code	order code					
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
	32	SH 201-B 32 NA	2CDS 211 103 R0325	63094 8			0.25	5
U_{Bmax} 440 V ~ 60 V ...	40	SH 201-B 40 NA	2CDS 211 103 R0405	63096 2			0.25	5
	<hr/>							
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
	32	SH 203-B 32 NA	2CDS 213 103 R0325	63163 1			0.5	1
U_{Bmax} 440 V ~	40	SH 203-B 40 NA	2CDS 213 103 R0405	63165 5			0.5	1

3

MCBs SH 200 series

6000

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.

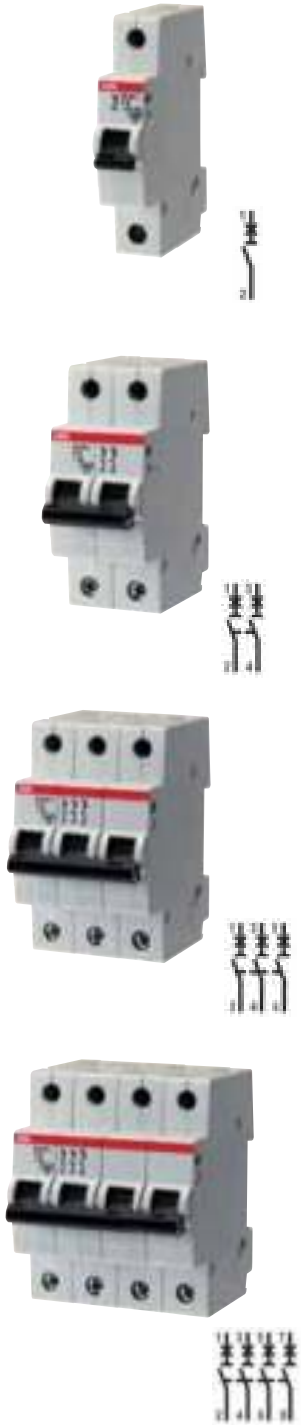
Applications: buildings, both residential and commercial

Standard: IEC/EN 60898

I_{cn}=6kA

No. of poles	rated current I _n A	order details		bbn 40 16779 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack. unit pc.
		type code	order code					
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
	32	SH 201-C 32	2CDS 211 001 R0324	63070 2			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
	25	SH 202-C 25	2CDS 212 001 R0254	63114 3			0.25	5
	32	SH 202-C 32	2CDS 212 001 R0324	63116 7			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
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
	25	SH 204-C 25	2CDS 214 001 R0254	63183 9			0.5	1
	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



MCBs SH 200 series

6000



With disconnecting neutral NA

No. of poles	rated current I _n A	order details		bbn 40 16779 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack. unit pc.	
		type code	order code						
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	
	25	SH 201-C 25 NA	2CDS 211 103 R0254	63091 7			0.25	5	
	32	SH 201-C 32 NA	2CDS 211 103 R0324	63093 1			0.25	5	
U _{Bmax} 440 V ~ 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
32		SH 203-C 32 NA	2CDS 213 103 R0324	63162 4			0.5	1	
U _{Bmax} 440 V ~	40	SH 203-C 40 NA	2CDS 213 103 R0404	63164 8			0.5	1	

3

RCCBs FH 200 series

AC  and A  type

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 $I_{\Delta n}=30\text{mA}$) 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 $I_{\Delta n}$ mA	nominal current I_n A	order details		bbn 80 12542 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack unit pc.
			type code	order code					
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 $I_{\Delta n}=30\text{mA}$) 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 $I_{\Delta n}$ mA	nominal current I_n A	order details		bbn 80 12542 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack unit pc.
			type code	order code					
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



RCBOs series

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 $I\Delta n=30mA$)

Application: buildings, both residential and commercial



No. of poles	type/class	nominal fault current $I\Delta n$ mA	nominal current I_n A	order details type code	order code	bbn 80 12542 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack. unit pc.
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RCBOs DS 941, $I_{cn}= 4.5kA$, 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, $I_{cn}= 4.5kA$, 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, $I_{cn}=6kA$, 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, $I_{cn}= 6kA$, 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

Type	Order Code	bbn 4016779 EAN	Pins	mm ²	Phase sequence	End caps	Pack unit pcs.
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Busbars

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 051 486 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

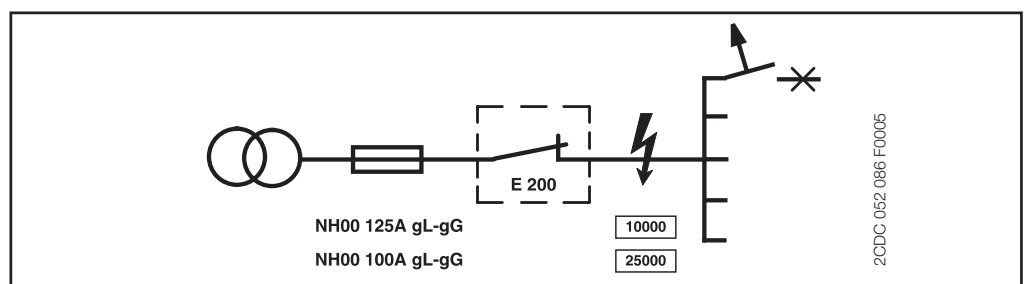
No. of poles	rated voltage VAC	power loss W	order details type code	order code	bbn 4016779 EAN	price 1 piece	price group	w'ght 1 pc. kg	pack. unit pc.
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Rated current = 16A

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 051 002 F0004

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.
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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.
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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

MDRCs

Application: buildings, both residential and commercial

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

Description	order details		bn	price	price	w'ght	pack.
	type code	order code	80 12542	1 piece	group	1 pc.	unit

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

Surge protection devices, class II, I _{max} =40kA, I _n =15kA, U _p =1.2kV, U _n =230V, U _c =275V	OVR 1N 40 275 P	2CTB 8139 52 R 11 00	EAN 506030			kg 0.220	pc. 1
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Surge protection devices, class II, I _{max} =40kA, I _n =15kA, U _p =1.2kV, U _n =230V, U _c =275V	OVR 3N 40 275 P	2CTB 8139 53 R 11 00	EAN 506283			kg 0.220	pc. 1
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N.B.: for more information about these products and to know the complete range, see the technical catalogue

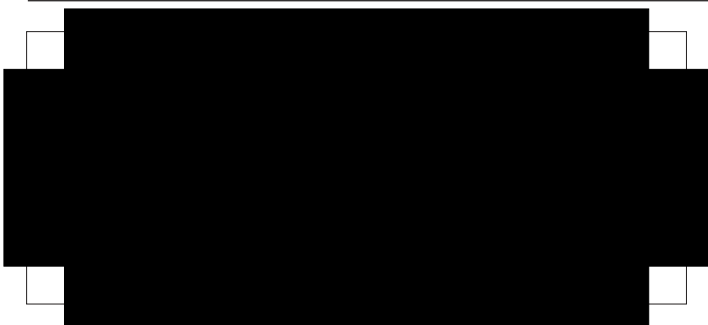




In consideration of modifications to Standards and materials, the characteristics and overall dimensions indicated in this catalogue may be considered binding only following confirmation by ABB SACE

2CSC400003E0202

ABB SACE S.p.A.
ABB STOTZ-KONTAKT GmbH



Overview of Low Voltage equipment

Moulded-case and air circuit-breakers

1SDC001001B0205



ABB

ABB SACE.

At the forefront in Low Voltage.



ABB SACE is a synonym of quality and innovation in the Low Voltage sector, offering products which, by integrating perfectly, adapt to the various service and installation requirements thus satisfying all plant needs, from the small user up to large industrial electric power distributors.

ABB SACE's offer of low voltage circuit-breakers makes high quality, reliable and precise products available, which guarantee high performances under any conditions, products safe during use and, when necessary, with easy replacement of faulty parts.

The SACE Emax series of air circuit-breakers, now enriched with the new X1 size, cover all user needs from 630 up to 6300 A. X1 of Emax is proposed as the best solution for all those applications where dimensions are an important and determining

factor in selecting the circuit-breaker, without however necessarily having to give up high rated current values: rated current up to 1600 A, high I_{cw} for selective circuit-breakers and, for the current-limiting version, an I_{cu} of 150 kA at 415 V AC.

The SACE Tmax family of moulded-case circuit-breakers is divided into seven sizes (T1-T7) with rated uninterrupted currents from 160 to 1600 A. Perfect integration between the sizes, higher performances with circuit-breakers of even smaller dimensions,



a standardized range of accessories which considerably simplify selection of the apparatus ... all this is now possible thanks to the seven sizes of the new Tmax moulded-case circuit-breaker.

The Tmax family is completed by the new Tmax T7, available in two versions with manual and motorizable operating mechanism, to fulfil all installation and protection requirements – even the most specific ones.

In conformity with the commitment and attention the group pays to the environment, ABB SACE has always been careful to target the sustainable development and environmental protection objectives.

All the company production sites have obtained ISO 9001 quality certification, and most of them also have ISO 14001 certification of their environmental management system. The ABB SACE factories have also obtained certification for integrated management of their Quality, Environment and Safety systems in conformity with ISO 9001-2000, ISO 14001-96 and OHSAS 18001 Standards. From the safety viewpoint, ABB SACE is, once again, a

Ethics and Social Accountability

The **SA8000** International Standard (Social Accountability 8000) or **System of Social Accountability** is the most widespread and recognized standard at international level, by means of which it is guaranteed that a company is socially accountable and is particularly committed to **respecting work ethics and working conditions**.

Based on the so-called “requirements of social accountability”, the SA8000 Standard confirms the **ethics of the whole production cycle** of a company regarding child labour, no forced labour, safeguarding personnel health and safety, freedom of association and right to collective bargaining, no discrimination, disciplinary procedures, compensation and working hours, relationships with suppliers and integration in the communities where the company carries on its activities.

In 2004, ABB SACE S.p.A. decided to implement the management system for Social Accountability according to the SA8000 Standard at its sites in Frosinone and Patrica, which had already had their QAS (Quality, Environment, Safety) integrated management system certified in accordance with ISO 9001:2000, ISO 14001:2004, and OHSAS 18001:99 Standards, also on the basis of the previous certification obtained by the ABB Group Services Center in 2003.

The initiative falls within the more general framework of the activities of the Sustainability Affairs Group Function of ABB, committed to implementing and striving to achieve the ABB sustainability objectives throughout the world.

During the process for implementing the SA8000 Standard, all the personnel at Frosinone and Patrica took part in a cycle of meetings for comparing ideas and for training. **The suppliers and sub-suppliers were also involved**, called on to acknowledge and adhere to the principles confirmed by the SA8000 Standard and by the policy of ABB SACE S.p.A. for Social Accountability.

Until now, ABB is the only company to have obtained SA8000 certification among the multinational companies in the electrical sector.

Once again ABB is to the fore in offering you better service.



guarantee of conformity with the electrical safety standards, in respect of the international Standards. Our products

undergo the most severe tests for conformity with standards as well as the necessary type tests in the ABB laboratories,

accredited by the most important national and international Organizations (SINAL, ACAE and LOVAG).

Tmax moulded-case circuit-breakers for distribution

Common data	
Voltages	
Rated service voltage, Ue	[V] 690*
Rated impulse withstand voltage, Uimp	[kV] 8
Rated insulation voltage, Ui	[V] 800...1000**
Test voltages at power frequency for 1 min.	[V] 3000...3500
Number of poles	
	3-4

* 240 V for T1 1p ** 500 V for T1 1p

[V]	690*
[kV]	8
[V]	800...1000**
[V]	3000...3500
	3-4



Rated uninterrupted current, Iu (A)	[Iu]	160	160	160	250
Rated ultimate short-circuit breaking capacity, Icu (AC) 50-60 Hz 220/230 V	[kA]	B	B C N	N S H L	N S
(AC) 50-60 Hz 380/415 V	[kA]	25 ⁽¹⁾	25 40 50	65 85 100 120	50 85
(AC) 50-60 Hz 440 V	[kA]		16 25 36	36 50 70 85	36 50
(AC) 50-60 Hz 500 V	[kA]		10 15 22	30 45 55 75	25 40
(AC) 50-60 Hz 690 V	[kA]		8 10 15	25 30 36 50	20 30
(DC) 250 V - 2 poles in series	[kA]		3 4 6	6 7 8 10	5 8
(DC) 250 V - 3 poles in series	[kA]	25 (at 125 V)	16 25 36	36 50 70 85	36 50
(DC) 500 V - 2 poles in series	[kA]		20 30 40	40 55 85 100	40 55
(DC) 500 V - 3 poles in series	[kA]		16 25 36	36 50 70 85	36 50
(DC) 750 V - 3 poles in series	[kA]				
Rated service short-circuit breaking capacity, Ics (at 415 V)	[%Icu]	75%	100% 100% 75%	100% 100% 100% 75% ⁽²⁾	75% 50% ⁽³⁾
Rated short-circuit making capacity, Icm (415 V)	[kA]	52.5 (at 220/230 V)	32 52.5 75.6	75.6 105 154 187	75.6 105
Opening time (415 V)	[ms]	7	7 6 5	3 3 3 3	7 6
Rated short-time withstand current for 1 s, Icw	[kA]				
Category of utilization (IEC 60947-2, EN 60947-2)		A	A	A	A
Isolation behaviour		■	■	■	■
Reference standards IEC 60947-2, EN 60947-2		■	■	■	■
Trip unit:					
thermomagnetic					
T fixed, M fixed (10xIn) TMF		■			
T adjust., M fixed (10xIn) TMD			■		■
T adjust., M adjust. (5...10xIn) TMA				■	
T adjust., M fixed (3xIn) TMG					■
T adjust., M adjust. (2.5...5xIn) TMG					
magnetic only					
M adjustable (6...12xIn) MA				■ (MF up to In 12.5 A)	■
electronic					
PR221DS (I-LS/I)				■	
PR222DS/P (LSI-LSIG)					
PR222 MP					
PR223DS/P					
PR223EF					
PR231/P (I-LS/I)					
PR232/P (LSI)					
PR331/P (LSIG)					
PR332/P (LI-LSI-LSIG-LSIRc)					
Interchangeability					
Versions		F	F	F - P	F - P
Terminals	Fixed (F)	FC Cu	FC Cu - EF - FC CuAl - HR	F - FC Cu - FC CuAl - EF - ES - R	F - FC Cu - FC CuAl - EF - ES - R
	Plug-in (P)			F - FC Cu - FC CuAl - EF - ES - R	F - FC Cu - FC CuAl - EF - ES - R
	Withdrawable (W)				
Fixing onto DIN rail			DIN EN 50022	DIN EN 50022	DIN EN 50022
Mechanical life	[No. operations / hourly ops.]	25000 / 240	25000 / 240	25000 / 240	25000 / 240
Electrical life (at 415 V)	[No. operations / hourly ops.]	8000 / 120	8000 / 120	8000 / 120	8000 / 120
Fixed basic dimensions	3/4 poles W	[mm] 25.4 (1 pole)	76 / 102	90 / 120	105 / 140
	D	[mm] 70	70	70	70
	H	[mm] 130	130	130	150
Weights	fixed 3/4 poles	[kg] 0.4 (1 pole)	0.9 / 1.2	1.1 / 1.5	1.5 / 2
	plug-in 3/4 poles	[kg]		1.5 / 1.9	2.7 / 3.7
	withdrawable 3/4 poles	[kg]			

⁽¹⁾ Settings In = 16 and In = 20 with Icu = 16 kA @ 220/230 V
⁽²⁾ 70 kA
⁽³⁾ 27 kA

⁽⁴⁾ Only 630 and 800 A
⁽⁵⁾ Only for T7 800/1000/1250 A

Note: In the plug-in version of T2-T3 and T5 630 and in the withdrawable version of T5 630, the maximum rated current available is derated by 10% at 40 °C.

Tmax moulded-case circuit-breakers for specific applications

		Tmax T1	Tmax T2	Tmax T3
Current-limiting			T2L	
Poles			3 - 4	
Iu	[A]		160	
Ue	[V]		690	
Icu @ 380/415 V	[kA]		85	
Icu @ 440 V	[kA]		75	
Icu @ 690 V	[kA]		10	
Ics/Icu %			75% (70 kA)	
Dimensions	W	[mm]	90 / 120	
	D	[mm]	70	
	H	[mm]	130	

Advanced zone selectivity				
Poles		[No.]		
Iu		[A]		
Ue	(AC) 50-60 Hz	[V]		
EFDP zone selectivity				
ZS zone selectivity				

			T2	T3
Motor protection				
Poles			3	3
Iu		[A]	160	250
Ue		[V]	690	690
Magnetic only M fixed release			■ (up to In 12.5)	-
Magnetic only M adjustable release			■ (from In 20)	■
Electronic PR221DS-I release, IEC 60947-2			■	-
Electronic PR222MP release, IEC 60947-4-1			-	-
Electronic PR231/P-I release, IEC 60947-2			-	-

Circuit-breakers for use up to 1150 V AC and 1000 V DC				
Poles				
Iu		[A]		
Icu @ 1000 V AC		[kA]		
Icu @ 1150 V AC		[kA]		
Icu @ 1000 V DC	4 poles in series	[kA]		

			T1D	T3D
Switch-disconnector according to IEC 60947-3 Standard				
Poles			3 - 4	3 - 4
Ith		[A]	160	250
Ie AC23		[A]	125	200
Ue	(AC) 50-60 Hz	[V]	690	690
	(DC)		500	500
Uimp		[kV]	8	8
Ui		[V]	800	800
Icm		[kA]	2.8	5.3
Icw		[kA]	2	3.6

			T1	T2	T3
UL/CSA (UL 489 and CSA C22.2)					
Poles			1 ⁽¹⁾ - 3 - 4	3 - 4	3 - 4
Maximum continuous current @ 40 °C		[A]	100	100	225
Min-max Ampere Interrupting ratings @ 347 V		[kA]	14 ⁽²⁾	-	-
Min-max Ampere Interrupting ratings @ 480 V		[kA]	22	35 - 65	25 - 35
Min-max Ampere Interrupting ratings @ 600Y/347 V AC		[kA]	10	-	10
Min-max Ampere Interrupting ratings @ 600 V		[kA]	-	-	-
Thermal-magnetic trip unit			■	■	■
Magnetic only			-	■	■
Microprocessor based trip unit			-	■	-
MCCB			■	■	■
MCP			-	■	■
MCS			■	-	■

⁽¹⁾ 1 pole breaker up to 347 V

⁽²⁾ 18 kA @ 227 V; In = 15 A → 10 kA

	Tmax T4	Tmax T5	Tmax T6	Tmax T7	
	T4V	T5V	T6L	T7V	
	3 - 4	3 - 4	3 - 4	3 - 4	
	250 / 320	400 / 630	630 / 800 / 1000	800 / 1000 / 1250	
	690	690	690	690	
	200	200	100	150	
	180	180	80	130	
	80	80	30	60	
	100%	100%	75%	100%	
	105 / 140	140 / 184	210 / 280	210 / 280	
	103.5	103.5	103.5	154 (manual)/178 (motorizable)	
	205	205	268	268	

	T4	T5	T6	T7	
	3 - 4	3 - 4	3 - 4	3 - 4	
	250 / 320	400 / 630	630 / 800 / 1000	800 / 1000 / 1250 / 1600	
	690	690	690	690	
	■	■	■	-	
	-	-	-	■	

	T4	T5	T6	T7	
	3	3	3	3	
	250 / 320	400 / 630	630 / 800 / 1000	800 / 1000 / 1250 / 1600	
	690	690	690	690	
	-	-	-	-	
	■	-	-	-	
	■	■	■	-	
	■	■	■	-	
	-	-	-	■	

	T4	T5	T6		
	3 - 4	3 - 4	3 - 4		
	250	400 / 630	630 / 800		
	20	20	12		
	12	12	-		
	40	40	40		

	T4D	T5D	T6D	T7D	
	3 - 4	3 - 4	3 - 4	3 - 4	
	250 / 320	400 / 630	630 / 800 / 1000	1000 / 1250 / 1600	
	250	400	630 / 800 / 800	1000 / 1250 / 1250	
	690	690	690	690	
	750	750	750	750	
	8	8	8	8	
	800	800	1000	1000	
	5.3	11	30	52.5	
	3.6	6	15	20	

	T4	T5	T6	S7	S8
	2 - 3 - 4	2 - 3 - 4	2 - 3 - 4	2 - 3 - 4	3
	250	400 / 600	800	1200	1600 / 2000 / 2500
	-	-	-	-	-
	25 - 150	25 - 150	50 - 100	65	100
	-	-	-	-	-
	18 - 100	18 - 100	25 - 42	50	85
	■	■	■	-	-
	-	-	-	-	-
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	■	■

Accessories for Tmax moulded-case circuit-breakers



	Tmax T1	Tmax T2	
Service releases			
Shunt trips	■	■	
Closing coils			
Undervoltage releases	■	■	
Time-delay device for undervoltage release	■	■	
Electrical signals			
Contacts:			
2 in Open/Closed changeover			
1 in Open/Closed changeover + 1 in changeover to signal release tripped	■	■	
3 in Open/Closed changeover + 1 in changeover to signal release tripped	■	■	
1 Open/Closed + 1 release tripped + 1 open to signal release intervention		■ ⁽¹⁾	
Early auxiliary for undervoltage release	■ (no. 2)	■ (no. 2)	
For signalling circuit-breaker Racked-in/Racked-out		■	
Remote control			
Solenoid operator	■	■	
Motor operator with stored energy			
Spring-charging motor for T7 in motorizable version			
Operating mechanisms and locks			
Direct or transmitted rotary handle operating mechanism	■	■	
IP54 protection for rotary handle	■	■	
Front for lever operating mechanism			
Key lock in open position	■	■	
Padlock for operating lever	■	■	
Anti-tampering lock on thermomagnetic release	■	■	
Compartment door lock	■	■	
Mechanical interlock between two circuit-breakers	■	■	
Electronic residual current releases			
Associated with the circuit-breaker	RC221/1 - RC222/1	RC221/2 - RC222/2	
For RCQ switchgear	■	■	
Accessories for electronic releases			
Front display unit - FDU			
SACE TT1 test unit		■	
PR021/K signalling unit		■	
SACE PR010/T Test and Configuration unit			
SACE PR212/CI contactor control unit			
Automatic network-generator transfer unit			
ATS010			

⁽¹⁾ Pre-cabled version only for PR221DS release

⁽²⁾ Trip unit with integrated residual current protection available



	Tmax T3	Tmax T4	Tmax T5	Tmax T6	Tmax T7
	■	■	■	■	■
	■	■	■	■	■ T7M
	■	■	■	■	■
		■	■	■	■
	■	■	■	■	■
	■	■	■	■	
	■ (no. 2)	■	■	■	■
	■	■	■	■	■
	■	■	■	■	
					■ T7 M
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	■	■
	RC221/3 - RC222/3 - RC223/3	RC222/4 - RC223/4	RC222/5		■ (2)
	■	■	■	■	■
		■	■	■	
		■	■	■	■
		■	■	■	■
		■	■	■	■
		■	■	■	
		■	■	■	■

Emax air circuit-breakers for distribution

Common data			
Voltages			
Rated service voltage	Ue	[V]	690 ~
Rated insulation voltage	Ui	[V]	1000
Rated impulse withstand voltage	Uimp	[kV]	12
Operating temperature			
[°C]			
Storage temperature		[°C]	-25...+70
Frequency	f	[Hz]	50 - 60
Number of poles			3-4
Version			Fixed - Withdrawable



Levels of performance			X1			E1		
			B	N	L	B	N	
Currents: rated uninterrupted current (at 40 °C)	lu	[A]	630	630	630	800	800	
		[A]	800	800	800	1000	1000	
		[A]	1000	1000	1000	1250	1250	
		[A]	1250	1250	1250	1600	1600	
		[A]	1600	1600				
		[A]						
Capacity of the neutral pole for four-pole cb		[%Iu]	100	100	100	100	100	
Ultimate short-circuit breaking capacity	lcu	220/230/380/400/415 V ~	[kA]	42	65	150	42	50
		440 V ~	[kA]	42	65	130	42	50
		500/525 V ~	[kA]	42	50	100	42	50
		660/690 V ~	[kA]	42	50	60	42	50
		220/230/380/400/415 V ~	[kA]	42	50	150	42	50
Rated short-circuit service breaking capacity	lcs	440 V ~	[kA]	42	50	130	42	50
		500/525 V ~	[kA]	42	42	100	42	50
		660/690 V ~	[kA]	42	42	45	42	50
		(1s)	[kA]	42	42	15	42	50
		(3s)	[kA]				36	36
Short-time withstand current	lcm	220/230/380/400/415 V ~	[kA]	88.2	143	330	88.2	105
		440 V ~	[kA]	88.2	143	286	88.2	105
		500/525 V ~	[kA]	88.2	105	220	88.2	105
		660/690 V ~	[kA]	88.2	105	132	88.2	105
		CEI EN 60947-2		B	B	A	B	B
Category of utilization	CEI EN 60947-2		■	■	■	■	■	
Isolation behaviour			■	■	■	■	■	
Overcurrent release			■	■	■	■	■	
Electronic trip units for AC applications								
Operation times								
Closing time (max)		[ms]	80	80	80	80	80	
Breaking time for I<l _{cw} (max) ⁽¹⁾		[ms]	70	70	70	70	70	
Breaking time for I>l _{cw} (max)		[ms]	30	30	12	30	30	
Overall dimensions								
Fixed: H = 418 mm - D = 302 mm	W	(3/4 poles)	[mm]	H=268 mm - D=181 mm - W(3/4)=210/280			296/386	
Withdrawable: H = 461 mm - D = 396.5 mm	W	(3/4 poles)	[mm]	H=343 mm - D=254 mm - W(3/4)=284/354			324/414	
Weights (circuit-breaker complete with releases and CT, excluding accessories)								
Fixed 3/4 poles			[kg]	11/14	11/14	11/14	45/54	45/54
Withdrawable 3/4 poles (including the fixed part)			[kg]	32/42.6	32/42.6	32/42.6	70/82	70/82

⁽¹⁾ Without intentional delays

⁽²⁾ The performance at 600 V is 100 kA

Rated uninterrupted current (at 40 °C)	lu	[A]	X1 B-N-L			E1 B-N		
			800	1250	1600	800	1000-1250	1600
Mechanical life with regular ordinary maintenance		[No. Operations x 1000]	12.5	12.5	12.5	25	25	25
Operation frequency		[Operations/hour]	60	60	60	60	60	60
Electrical life	(440 V ~)	[No. Operations x 1000]	6	4	3	10	10	10
	(690 V ~)	[No. Operations x 1000]	3	2	1	10	8	8
Operation frequency		[Operations/hour]	30	30	30	30	30	30



	E2				E3					E4			E6		
	B	N	S	L	N	S	H	V	L	S	H	V	H	V	
	1600	1000	800	1250	2500	1000	800	800	2000	4000	3200	3200	4000	3200	
	2000	1250	1000	1600	3200	1250	1000	1250	2500		4000	4000	5000	4000	
		1600	1250			1600	1250	1600					6300	5000	
		2000	1600			2000	1600	2000						6300	
			2000			2500	2000	2500							
						3200	2500	3200							
						3200									
	100	100	100	100	100	100	100	100	100	50	50	50	50	50	
	42	65	85	130	65	75	100	130	130	75	100	150	100	150	
	42	65	85	110	65	75	100	130	110	75	100	150	100	150	
	42	55	65	85	65	75	100	100	85	75	100	130	100	130	
	42	55	65	85	65	75	85 ⁽²⁾	100	85	75	85 ⁽²⁾	100	100	100	
	42	65	85	130	65	75	85	100	130	75	100	150	100	125	
	42	65	85	110	65	75	85	100	110	75	100	150	100	125	
	42	55	65	65	65	75	85	85	65	75	100	130	100	100	
	42	55	65	65	65	75	85	85	65	75	85	100	100	100	
	42	55	65	10	65	75	75	85	15	75	100	100	100	100	
	42	42	50	-	65	65	65	65	-	75	75	75	85	85	
	88.2	143	187	286	143	165	220	286	286	165	220	330	220	330	
	88.2	143	187	242	143	165	220	286	242	165	220	330	220	330	
	88.2	121	143	187	143	165	187	220	187	165	220	286	220	286	
	88.2	121	143	187	143	165	187	220	187	165	187	220	220	220	
	B	B	B	A	B	B	B	B	A	B	B	B	B	B	
	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
	80	80	80	80	80	80	80	80	80	80	80	80	80	80	
	70	70	70	70	70	70	70	70	70	70	70	70	70	70	
	30	30	30	12	30	30	30	30	12	30	30	30	30	30	
		296/386				404/530					566/656			782/908	
		324/414				432/558					594/684			810/936	
	50/61	50/61	50/61	52/63	66/80	66/80	66/80	66/80	72/83	97/117	97/117	97/117	140/160	140/160	
	78/93	78/93	78/93	80/95	104/125	104/125	104/125	104/125	110/127	147/165	147/165	147/165	210/240	210/240	

	E2 B-N-S				E2 L		E3 N-S-H-V						E3 L		E4 S-H-V		E6 H-V			
	800	1000-1250	1600	2000	1250	1600	800	1000-1250	1600	2000	2500	3200	2000	2500	3200	4000	3200	4000	5000	6300
	25	25	25	25	20	20	20	20	20	20	20	20	15	15	15	15	12	12	12	12
	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	15	15	12	10	4	3	12	12	10	9	8	6	2	1.8	7	5	5	4	3	2
	15	15	10	8	3	2	12	12	10	9	7	5	1.5	1.3	7	4	5	4	2	1.5
	30	30	30	30	20	20	20	20	20	20	20	20	20	20	10	10	10	10	10	10

Emax air circuit-breakers for specific applications

		X1	E1	E2	
Automatic circuit-breakers with full-size neutral conductor					
Poles	[no.]	Standard version	Standard version	Standard version	
Capacity of the neutral of 4p cb	[% I _u]				
I _u (40 °C)	[A]				
U _e	[V~]				
I _{cu} (220...415 V)	[kA]				
I _{cs} (220...415 V)	[kA]				
I _{cw} (1s)	[kA]				
	(3s)	[kA]			

Switch-disconnectors

		X1B/MS	E1B/MS	E1N/MS	E2B/MS	E2N/MS	E2S/MS	
Poles	[no.]	3-4	3 - 4	3 - 4	3 - 4	3 - 4	3 - 4	
I _u (40 °C)	[A]	1000-1250-1600	800-1000-1250-1600	800-1000-1250-1600	1600-2000	1000-1250-1600-2000	1000-1250-1600-2000	
U _e	[V~]	690	690	690	690	690	690	
I _{cw} (1s)	[kA]	42	42	50	42	55	65	
	(3s)	[kA]	36	36	42	42	42	
I _{cm} (220...440 V)	[kA]	88.2	88.2	105	88.2	121	143	

Circuit-breakers for applications up to 1150 V AC

		X1B/E		E2B/E	E2N/E	
Poles	[no.]	3-4		3 - 4	3 - 4	
I _u (40 °C)	[A]	630-800-1000-1250-1600		1600-2000	1250-1600-2000	
U _e	[V~]	1000		1150	1150	
I _{cu} (1000 V)	[kA]	20		20	30	
I _{cu} (1150 V)	[kA]	-		20	30	
I _{cs} (% I _{cu})	[kA]	100%		100%	100%	
I _{cw} (1s)	[kA]	20		20	30	

Switch-disconnector for applications up to 1150 V AC

		X1B/E MS		E2B/E MS	E2N/E MS	
Poles	[no.]	3-4		3 - 4	3 - 4	
I _u (40 °C)	[A]	1000-1250-1600		1600-2000	1250-1600-2000	
U _e	[V~]	1000		1150	1150	
I _{cw} (1s)	[kA]	20		20	30	
I _{cm} (1150 V)	[kA]	40 ^(*)		40	63	

Switch-disconnector for applications up to 1000 V DC

			E1B/E MS		E2N/E MS	
Poles	[no.]		3 - 4		3 - 4	
I _u (40 °C)	[A]		800-1250		1250-1600-2000	
U _e	[V-]		750 (3p) - 1000 (4P)		750 (3p) - 1000 (4p)	
I _{cw} (1s)	[kA]		20		25	
I _{cm} (750 V)	[kA]		42		52.5	
	(1000 V)	[kA]	42		52.5	

Isolating truck

			E1 CS		E2 CS	
I _u (40 °C)	[A]		1250		2000	

Earthing switch with making capacity

			E1 MTP		E2 MTP	
I _u (40 °C)	[A]		1250		2000	

Earthing truck

			E1 MT		E2 MT	
I _u (40 °C)	[A]		1250		2000	

^(*) The performance at 1150 V is 30 kA
^(**) At 1000 V AC

⁽¹⁾ 50 kA @ 1000 V
⁽²⁾ 105 kA @ 1000 V

E3		E4		E6
Standard version		E4S/f	E4H/f	E6H/f
		4	4	4
		100	100	100
		4000	3200-4000	4000-5000-6300
		690	690	690
		80	100	100
		80	100	100
		80	85	100
		75	75	85

E3N/MS	E3S/MS	E3V/MS	E4S/MS	E4S/f MS	E4H/MS	E4H/f MS	E6H/MS	E6H/f MS
3 - 4	3 - 4	3 - 4	3 - 4	4	3 - 4	4	3 - 4	4
2500-3200	1000-1250-1600- 2000-2500-3200	800-1250-1600- 2000-2500-3200	4000	4000	3200-4000	3200-4000	4000-5000-6300	4000-5000-6300
690	690	690	690	690	690	690	690	690
65	75	85	75	75	100	85	100	100
65	65	65	75	75	75	75	85	85
143	165	187	165	165	220	187	220	220

E3H/E		E4H/E		E6H/E
3 - 4		3 - 4		3 - 4
1250-1600-2000-2500-3200		3200-4000		4000-5000-6300
1150		1150		1150
50		65		65
30		65		65
100%		100%		100%
50 ^(*)		65		65

E3H/E MS		E4H/E MS		E6H/E MS
3 - 4		3 - 4		3 - 4
1250-1600-2000-2500-3200		3200-4000		4000-5000-6300
1150		1150		1150
30 ⁽¹⁾		65		65
63 ⁽²⁾		143		143

E3H/E MS		E4H/E MS		E6H/E MS
3 - 4		3 - 4		3 - 4
1250-1600-2000-2500-3200		3200-4000		4000-5000-6300
750 (3p) - 1000 (4p)		750 (3p) - 1000 (4p)		750 (3p) - 1000 (4p)
40		65		65
105		143		143
105		143		143

E3 CS	E4 CS	E6 CS
3200	4000	6300

E3 MTP	E4 MTP	E6 MTP
3200	4000	6300

E3 MT	E4 MT	E6 MT
3200	4000	6300

Accessories for Emax air circuit-breakers

Circuit-breaker version	Circuit-breakers			
	Circuit-breakers with neutral with full section			
	Circuit-breakers for applications up to 1150 V AC			
	X1		E1-E6	
	Fixed	Withdrawable	Fixed	Withdrawable
Service trip units				
Shunt trip/closing coil and second shunt trip	■	■	■	■
SOR test unit	■	■	■	■
Undervoltage release	■	■	■	■
Time-delay device for undervoltage release	■	■	■	■
Remote control				
Geared motor for automatic closing spring charging (M)	■	■	■	■
Electrical signals				
Electrical signalling of overcurrent trip unit tripped	■	■	■	■
Electrical signalling of overcurrent trip unit trip with remote operating mechanism	■	■	■	■
Electrical signalling for circuit-breaker open/closed ⁽¹⁾	■	■	■	■
Electrical signalling for circuit-breaker open/closed, supplementary external			■	■
Electrical signalling for circuit-breaker racked-in/racked-out/racked-out for test		■		■
Contact signalling closing springs charged	■	■	■	■
Contact signalling undervoltage release de-energized (Aux C. YU)			■	■
Contact signalling "ready to close"	■	■		
Accessories for electronic trip units				
Current transformer for the neutral conductor outside the circuit-breaker	■	■	■	■
Homopolar toroid for the earthing conductor of the main power supply (star centre of the transformer)	■	■	■	■
Homopolar toroid for residual current protection	■	■	■	■
Controls and locks				
Mechanical operation counter	■	■	■	■
Lock in open position: key	■	■	■	■
Lock in open position: padlocks	■	■	■	■
Circuit-breaker lock in racked-in/racked-out/racked-out for test position		■		■
Accessories for lock in racked-out/racked-out for test position		■		■
Accessory for shutter padlocks				■
Mechanical lock on compartment door	■	■	■	■
Opening and closing pushbutton protection	■	■	■	■
IP54 door protection	■	■	■	■
Lock on sliding contacts	■	■		
Interlock between circuit-breakers ⁽²⁾	■	■	■	■
Automatic network-generator transfer unit				
Automatic network-generator transfer unit ATS010 ⁽³⁾	■	■	■	■

KEY

- Accessory on request on fixed circuit-breaker or on moving part
- Accessory on request on fixed part
- Accessory on request on moving part

⁽¹⁾ For circuit-breaker, the 4 auxiliary contacts for electrical signalling of circuit-breaker open/closed are included in the standard supply

⁽²⁾ Incompatible with the versions with full-section neutral E6/f

⁽³⁾ For E1-E6, incompatible with the range of circuit-breakers for applications up to 1150 V AC. For X1, incompatible with the range of circuit-breaker for applications up to 1000 V AC

	Switch-disconnectors (MS)				Isolating truck (CS)	Earthing switch with making capacity (MPT)	Earthing truck (MT)	
	Switch-disconnectors for applications at 1150 V AC							
	Switch-disconnectors for applications at 1000 V DC							
	X1		E1-E6		E1-E6	E1-E6	E1-E6	
	Fixed	Withdrawable	Fixed	Withdrawable	Withdrawable	Withdrawable	Withdrawable	
	■	■	■	■		■ (YC)		
	■	■	■	■				
	■	■	■	■				
	■	■	■	■				
	■	■	■	■		■		
	■	■	■	■		■		
			■	■		■		
	■	■	■	■	■	■	■	
			■	■		■		
	■	■						
	■	■	■	■		■		
	■	■	■	■		■		
	■	■	■	■		■		
	■	■	■	■				
					■	■	■	
					■	■	■	
	■	■	■	■	■	■	■	
	■	■	■	■		■		
	■	■	■	■		■		
	■	■	■	■				
	■	■	■	■				
	■	■	■	■				
	■	■	■	■				



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Due to possible developments of standards as well as of materials, the characteristics and dimensions specified in the present catalogue may only be considered binding after confirmation by ABB SACE.



Low Voltage Consumer Units & Distribution Boards

Power and productivity
for a better world™





Consumer Units & Distribution Boards

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Consumer Units & Distribution Boards

General



The ABB range of sheet steel consumer units and distribution boards are designed for safety, reliability and availability in the electrical building installation.

Complying to IEC 439 - 3, BS EN 60439 - 3

Features

All ABB consumer units incorporate unique design features making installation, modification an easy operation and less time consuming.



Type Test Certification

Quick & Easy

Removal or change of gland plates and fixing of top / bottom extension boxes is quick & easy



Easy handling for the user, all screws Pozidrive 2.



Reversible door

Quick and easy door change from left hand hinge to right hand hinging



External earth stud

Consumer Units & Distribution Boards

General



Quick & easy electrical solutions for various installations.



Connection options

The TP&N distribution boards accept a variety of incoming devices, isolator, miniature circuit breaker, residual current device, MCCB or direct cable connection.

The incoming devices are connected to the busbar via various connection kits.



Front fascia plate provides neat & attractive cover for all incomer options



Robust spring loaded door catch with key lock



Terminals

Large 25 mm² earth and neutral terminals delivered in the open position.

Consumer Units

Comby

Ordering details



Comby Range

Application

Comby consumer units are designed to suit installations in domestic and commercial installations, easy to install, attractive and highly reliable. Fitted with either sheet steel flap or clear plastic flap for visual inspection of components. Complete with neutral and earth terminals and din rail.

Technical Data

Standard : IEC 439-1&3, BS 60439-1&3
 Max. load : 100 amps
 Max. voltage : 230 V ac, 50 Hz
 Range : 7,10,16 and 20 modules
 Degree of protection : IP 30
 Enclosure material : Cold rolled sheet steel
 Box and cover 1 mm
 (Aluzinc steel on request)
 Enclosure finish : Gray, RAL 7035

Plastic flap

For surface mounting

No. of rows	No. of modules	Dimensions H x W x D mm	Ordering details		Weight kg
			Type Code	Type No.	
1	7	256 x 209 x 88	ECT 107 S	1SKB 107 632 C0001	2.2
1	10	256 x 263 x 88	ECT 110 S	1SKB 110 632 C0001	2.6
1	16	256 x 366 x 88	ECT 116 S	1SKB 116 632 C0001	3.2
1	20	256 x 440 x 88	ECT 120 S	1SKB 120 632 C0001	4.1

For flush mounting

No. of rows	No. of modules	Dimensions H x W x D mm	Ordering details		Weight kg
			Type Code	Type No.	
1	7	276 x 229 x 88	ECT 107 F	1SKB 107 932 C0001	2.3
1	10	276 x 283 x 88	ECT 110 F	1SKB 110 932 C0001	2.8
1	16	276 x 386 x 88	ECT 116 F	1SKB 116 932 C0001	3.5
1	20	276 x 460 x 88	ECT 120 F	1SKB 120 932 C0001	4.3

Steel flap

For surface mounting

No. of rows	No. of modules	Dimensions H x W x D mm	Ordering details		Weight kg
			Type Code	Type No.	
1	7	256 x 209 x 110	ECS 107 DS	1SKB 107 632 C0002	2.8
1	10	256 x 263 x 110	ECS 110 DS	1SKB 110 632 C0002	3.4
1	16	256 x 366 x 110	ECS 116 DS	1SKB 116 632 C0002	4.4
1	20	256 x 440 x 110	ECS 120 DS	1SKB 120 632 C0002	4.8

For flush mounting

No. of rows	No. of modules	Dimensions H x W x D mm	Ordering details		Weight kg
			Type Code	Type No.	
1	7	276 x 229 x 110	ECS 107 DF	1SKB 107 932 C0002	2.9
1	10	276 x 283 x 110	ECS 110 DF	1SKB 110 932 C0002	3.6
1	16	276 x 386 x 110	ECS 116 DF	1SKB 116 932 C0002	4.7
1	20	276 x 460 x 110	ECS 120 DF	1SKB 120 932 C0002	5.0

Consumer Units

Housemaster compact

Ordering details



1SKC 015 003 F0001



1SKC 015 004 F0001

Application

Housemaster consumer units are designed to suit installations in residential commercial and industrial installations, easy to install and highly reliable. Fitted with sheet steel flap for visual inspection of components. Complete with neutral and earth terminals. Unit comes complete with incoming devices. Surface mounting only, (flush on request).

Technical Data

Standard : IEC 439-1&3, BS 60439-1&3
 Max. load : 100 amps
 80 amps for 4 way RCCB
 Max. voltage : 230 V ac, 50 Hz
 Range : 4, 7, 11, 16 and 20 SP & N ways
 Split load, 8, 12, 16 ways
 Degree of protection : IP 30
 Enclosure material : Cold rolled sheet steel
 Box and cover 1 mm
 (Aluzinc steel on request)
 Enclosure finish : Gray, RAL 7035

Housemaster sheet steel range

Isolator (E202/100A) Incomer

No. of ways	Dimensions H x W x D mm	Ordering details		Weight kg
		Type Code	Type No.	
4	256 x 155 x 110	HSMS 04C	1SKB 106 142 C4001	2.4
7	256 x 210 x 110	HSMS 07C	1SKB 109 142 C4001	3.1
11	256 x 282 x 110	HSMS 11C	1SKB 113 142 C4001	3.7
16	256 x 368 x 110	HSMS 16C	1SKB 118 142 C4001	4.7
20	256 x 440 x 110	HSMS 20C	1SKB 122 142 C4001	5.1

RCCB (F202AC/100/0.03A) Incomer, for HSRC 04C (F202AC/80/0.03A)

No. of ways	Max. load A	Dimensions H x W x D mm	Ordering details		Weight kg
			Type Code	Type No.	
4	80	256 x 155 x 110	HSRC 04C	1SKB 106 142 C6001	2.5
7	100	256 x 210 x 110	HSRC 07C	1SKB 109 142 C6001	3.2
11	100	256 x 282 x 110	HSRC 11C	1SKB 113 142 C6001	3.8
16	100	256 x 368 x 110	HSRC 16C	1SKB 118 142 C6001	4.8
20	100	256 x 440 x 110	HSRC 20C	1SKB 122 142 C6001	5.2

Split load (E202/100A+F202AC/80/0.03A) Incomer

No. of ways	Dimensions H x W x D mm	Ordering details		Weight kg
		Type Code	Type No.	
4+4	256 x 282 x 110	HSSL 4+4C	1SKB 113 142 C8001	4.1
6+6	256 x 368 x 110	HSSL 6+6C	1SKB 118 142 C8001	5.1
8+8	256 x 440 x 110	HSSL 8+8C	1SKB 122 142 C8001	5.5

Accessories

Single pole pin type comb busbar

Max. current A	C.S.A mm	No. of modules	Used for	Ordering details		Weight kg
				Type Code	Type No.	
100	30	5	ECS 104C	PNCB-05	1SKB 034 702 P0005	0.022
			HSMS/RC 04C			
		8	ECS 107C	PNCB-08	1SKB 034 702 P0008	0.035
			HSMS/RC 07C			
		12	ECS 111C	PNCB-12	1SKB 034 702 P0012	0.052
			HSMS/RC 011C			
		17	ECS 116C	PNCB-17	1SKB 034 702 P0017	0.074
			HSMS/RC 016C			
		21	ECS 120C	PNCB-21	1SKB 034 702 P0021	0.091
			HSMS/RC 020C			
10	30	10	HSSL 4+4C	PNCB-10	1SKB 034 702 P0010	0.043
			HSSL 6+6C			
			HSSL 8+8C			
			**			
14	30	14	HSSL 6+6C	PNCB-14	1SKB 034 702 P0014	0.065
			HSSL 8+8C			
			**			
			**			
18	30	18	HSSL 8+8C	PNCB-18	1SKB 034 702 P0018	0.082
			**			
			**			
			**			
60	30	60	**	PNCB-60	1SKB 034 702 P0060	0.260
			**			
			**			
			**			

** General as spare part (Original part)

Consumer Units

Housemaster compact

Ordering details (continued)

Application

Housemaster consumer units are designed to suit installations in residential commercial and industrial installations, easy to install and highly reliable. Unit comes complete with blanking plates, busbar, busbar cover, terminal bars and installation instructions. Surface mounting only.

Technical Data

Standard : IEC 439-1 & BS 60439-1
 Max. load : 100 amps
 80 amps for 4 way RCCB
 Max. voltage : 230 V ac, 50 Hz
 Range : 4, 6, 10, 14 and 18 SP & N ways
 Split load, 8, 12, 16 ways
 Degree of protection : IP 30
 Enclosure material : Moulded plastic
 Enclosure finish : White, RAL 9010

Housemaster plastic range

Isolator (E202/100A) Incomer

No. of ways	Dimensions H x W x D mm	Ordering details		Weight kg
		Type Code	Type No.	
4	226 x 190 x 123	HMMS 04C	1SPE 007 712 F0111	2.4
6	226 x 230 x 123	HMMS 06C	1SPE 007 712 F0211	3.1
10	226 x 300 x 123	HMMS 10C	1SPE 007 712 F0311	3.7
14	226 x 370 x 123	HMMS 14C	1SPE 007 712 F0411	4.7
18	226 x 440 x 123	HMMS 18C	1SPE 007 712 F0511	5.1



1SKC 015 005 F0001

RCCB (F202AC/100/0.03A) Incomer, for HSRC 04C (F202AC/80/0.03A)

No. of ways	Max. load A	Dimensions H x W x D mm	Ordering details		Weight kg
			Type Code	Type No.	
4	80	226 x 190 x 123	HMRC 04C	1SPE 007 712 F0112	2.5
6	100	226 x 230 x 123	HMRC 06C	1SPE 007 712 F0212	3.2
10	100	226 x 300 x 123	HMRC 10C	1SPE 007 712 F0312	3.8
14	100	226 x 370 x 123	HMRC 14C	1SPE 007 712 F0412	4.8
18	100	226 x 440 x 123	HMRC 18C	1SPE 007 712 F0512	5.2



1SKC 015 006 F0001

Split load (E202/100A+F202AC/80/0.03A) Incomer

No. of ways	Dimensions H x W x D mm	Ordering details		Weight kg
		Type Code	Type No.	
4+4	226 x 300 x 123	HMSL 4+4C	1SPE 007 712 F0313	4.1
6+6	226 x 370 x 123	HMSL 6+6C	1SPE 007 712 F0413	5.1
8+8	226 x 440 x 123	HMSL 8+8C	1SPE 007 712 F0513	5.5



1SKC 015 007 F0001

Distribution Boards

Protecta compact

Ordering details



1SKC 015 008 F0001



1SKC 015 009 F0001



1SKC 015 010 F0001



1SKC 015 011 F0001



1SKC 015 012 F0001

Application

Protecta compact distribution boards, a design aimed for safety, reliability and availability in the electrical building installation.

Available in busbar and multi row types.

Surface mounting only, (flush on request).

Supplied without incoming device or outgoing protection device.

Single row type are delivered complete with neutral and earth terminals, comb busbar and busbar neutral connection.

Technical Data

Standard : IEC 439- 3 & BS 60439 part 1 & 3

Single row type

Range : 6, 9, 13, 18 and 22 Modules

Multi row type

Max. load : 100 amps

Max. voltage : 230 / 400 V ac, 50 / 60 Hz

Range : 16, 32, 48, 64 and 80 modules
1, 2, 3, 4 and 5 rows

Busbar type

Max. load : 250 amps

Max. voltage : 230 / 400 V ac, 50 / 60 Hz

Range : 4, 6, 8, 12, 16, 20 and 24 TP&N ways
12, 18, 24, 36, 48, 60 and 72 SP&N ways

Degree of protection : IP 41, pan assemblies IP 20

Enclosure material : Cold rolled sheet steel
Box and cover 1 mm
(Aluzinc steel on request)

Enclosure finish : Gray, RAL 7035

Fault level : 35 kA

Single row type a distribution boards

No. of ways	No. of modules	Dimensions H x W x D mm	Ordering details		Weight kg
			Type Code	Type No.	
4	6	256 x 155 x 110	ECS 104C	1SKB 106 142 C2001	2.1
7	9	256 x 210 x 110	ECS 107C	1SKB 109 142 C2001	2.8
11	13	256 x 282 x 110	ECS 111C	1SKB 113 142 C2001	3.4
16	18	256 x 368 x 110	ECS 116C	1SKB 118 142 C2001	4.4
20	22	256 x 440 x 110	ECS 120C	1SKB 122 142 C2001	4.8

Multi row type a distribution boards (distance between rows 150mm)

No. of rows	No. of modules	Dimensions H x W x D mm	Ordering details		Weight kg
			Type Code	Type No.	
1	16	280 x 400 x 125	EPA 01	1SKP 116 142 C0001	7
2	32	502 x 400 x 125	EPA 02	1SKP 232 142 C0001	10.7
3	48	650 x 400 x 125	EPA 03	1SKP 348 142 C0001	13
4	64	800 x 400 x 125	EPA 04	1SKP 464 142 C0001	18
5	80	1001 x 400 x 125	EPA 05	1SKP 580 142 C0001	21

TP + N busbar type distribution boards

No. of TP ways	Dimensions H x W x D mm	Ordering details		Weight kg
		Type Code	Type No.	
4	502 x 400 x 125	EPB25-304C	1SKP 804 142 C0051	12
6	560 x 400 x 125	EPB25-306C	1SKP 806 142 C0051	13.2
8	610 x 400 x 125	EPB25-308C	1SKP 808 142 C0051	14.2
12	718 x 400 x 125	EPB25-312C	1SKP 812 142 C0051	16.3
16	830 x 400 x 125	EPB25-316C	1SKP 816 142 C0051	20.2
20	1001 x 400 x 125	EPB25-320C	1SKP 820 142 C0051	24.3
24	1140 x 400 x 125	EPB25-324C	1SKP 824 142 C0051	26.4

TP + N busbar distribution boards with DIN rail for 8 modules (MX version)*

No. of TP ways	Dimensions H x W x D mm	Ordering details		Weight kg
		Type Code	Type No.	
4	502 x 400 x 125	EPB 304 MXC	1SKP 804 142 C1001	11.8
6	560 x 400 x 125	EPB 306 MXC	1SKP 806 142 C1001	13
8	610 x 400 x 125	EPB 308 MXC	1SKP 808 142 C1001	14
12	718 x 400 x 125	EPB 312 MXC	1SKP 812 142 C1001	16

* Connection kit EPB KIT7C is proposed for connection of incoming devices to the main busbars.

Distribution Boards

Protecta compact accessories / TP + N pan assemblies

Ordering details



Accessories for distribution boards

No.	Accessory type	Ordering details		Weight kg
		Type Code	Type No.	
1	Flange plate blank	EPB GP1	1SKA 130 002 C0001	0.3
2	Flange plate with knock-outs	EPB GP2	1SKA 131 002 C0001	0.3
3	Cylinder lock with keys	EPB CL A1-G	1SKA 132 002 C1001	0.2

Side extension boxes (distance between rows 150mm)

No. of modules	No. of rows	Sided with TP+N DB's	Dimensions H x W x D mm	Ordering details		Weight kg
				Type Code	Type No.	
32	2	4 way	502 x 400 x 125	EPB SEB2R04W	1SKA 102 142 C0001	12.5
32	2	6 way	560 x 400 x 125	EPB SEB2R06W	1SKA 112 142 C0001	13.5
48	3	8 way	610 x 400 x 125	EPB SEB3R08W	1SKA 103 142 C0001	15.5
64	4	12 way	718 x 400 x 125	EPB SEB4R12W	1SKA 104 142 C0001	18
64	4	16 way	830 x 400 x 125	EPB SEB4R16W	1SKA 114 142 C0001	20
80	5	20 way	1001x 400 x 125	EPB SEB5R20W	1SKA 105 142 C0001	23

Top extension boxes (16 Modules)

Type	Dimensions H x W x D mm	Ordering details		Weight kg
		Type Code	Type No.	
Sheet steel flap / 1Row	200 x 400 x 125	EPB TEB 200S	1SKA 122 142 C0001	4
Sheet steel flap / 2Row	400 x 400 x 125	EPB TEB 400S	1SKA 124 142 C0001	6
Plastic flap	200 x 400 x 125	EPB TEB 200P	1SKA 125 142 C0001	3.5

Top / bottom extension boxes

Type	Dimensions H x W x D mm	Ordering details		Weight kg
		Type Code	Type No.	
Plain cover	200 x 400 x 125	EPB TEB 200C	1SKA 121 142 C0001	3.5
Plain cover	400 x 400 x 125	EPB TEB 400C	1SKA 123 142 C0001	6

TP + N pan assemblies

TP + N pan assemblies, complete with busbars + earth / neutral bars. (range 160 A)

No. of ways	Dimensions H x W x D mm	Ordering details		Weight kg
		Type Code	Type No.	
4	375 x 270 x 60	EPB 304 PAC-16	1SKP 804 100 C0101	3.1
6	429 x 270 x 60	EPB 306 PAC-16	1SKP 806 100 C0101	3.7
8	483 x 270 x 60	EPB 308 PAC-16	1SKP 808 100 C0101	4.3
12	591 x 270 x 60	EPB 312 PAC-16	1SKP 812 100 C0101	5.2
16	699 x 270 x 60	EPB 316 PAC-16	1SKP 816 100 C0101	6.7
20	874 x 270 x 60	EPB 320 PAC-16	1SKP 820 100 C0101	8.2
24	1014 x 270 x 60	EPB 324 PAC-16	1SKP 824 100 C0101	9.4

TP + N pan assemblies, complete with busbars + earth / neutral bars. (range 250 A)

No. of ways	Dimensions H x W x D mm	Ordering details		Weight kg
		Type Code	Type No.	
4	375 x 270 x 60	EPB25-PA304C	1SKP 804 100 C0051	3.1
6	429 x 270 x 60	EPB25-PA306C	1SKP 806 100 C0051	3.7
8	483 x 270 x 60	EPB25-PA308C	1SKP 808 100 C0051	4.3
12	591 x 270 x 60	EPB25-PA312C	1SKP 812 100 C0051	5.2
16	699 x 270 x 60	EPB25-PA316C	1SKP 816 100 C0051	6.7
20	874 x 270 x 60	EPB25-PA320C	1SKP 820 100 C0051	8.2
24	1014 x 270 x 60	EPB25-PA324C	1SKP 824 100 C0051	9.4

Distribution Boards

Mini Center compact

Ordering details



1SKC 015 019 F0001

Application

Mini Center compact distribution boards, a design aimed for safety, reliability and availability in the electrical building installation. Available in busbar and multi row types. Flush mounting only, (surface on request). Supplied without incoming device or outgoing protection device.

Technical Data

Standard : IEC 439- 3 & BS 60439 part 1 & 3

Multi row type

Max. load : 100 amps
 Max. voltage : 230 / 400 V ac, 50 / 60 Hz
 Range : 20, 32, 48, 64 and 80 modules
 1, 2, 3, 4 and 5 rows

Busbar type

Max. load : 160 amps
 Available in 250 amps on request
 Max. voltage : 230 / 400 V ac, 50 / 60 Hz
 Range : 4, 6, 8, 12 and 16 TP&N ways
 12, 18, 24, 36 and 48 SP&N ways

Degree of protection : IP 41, pan assemblies IP 20

Enclosure material : Cold rolled sheet steel
 Box and cover 1 mm
 (Aluzinc steel on request)

Enclosure finish : Gray, RAL 7035

Fault level : 35 kA

Multi row type a distribution boards (distance between rows 150mm)

No. of rows	No. of modules	Dimensions H x W x D mm	Ordering details		Weight kg
			Type Code	Type No.	
1	20	320 x 420 x 132	EMC 120 RXF	1SKM 120 242 C0001	6
2	32	540 x 420 x 132	EMC 232 RXF	1SKM 232 242 C0001	10.6
3	48	690 x 420 x 132	EMC 348 RXF	1SKM 348 242 C0001	13
4	64	840 x 420 x 132	EMC 464 RXF	1SKM 464 242 C0001	17
5	80	990 x 420 x 132	EMC 580 RXF	1SKM 580 242 C0001	20



1SKC 015 020 F0001

TP + N busbar type distribution boards

No. of TP ways	Dimensions H x W x D mm	Ordering details		Weight kg
		Type Code	Type No.	
4	540 x 420 x 132	EMC 312 CF-16	1SKM 804 242 C0111	11.7
6	600 x 420 x 132	EMC 318 CF-16	1SKM 806 242 C0111	13.1
8	650 x 420 x 132	EMC 324 CF-16	1SKM 808 242 C0111	14.1
12	758 x 420 x 132	EMC 336 CF-16	1SKM 812 242 C0111	16.1
16	870 x 420 x 132	EMC 348 CF-16	1SKM 816 242 C0111	20.1



1SKC 015 021 F0001

Mini Center accessories

Top extension boxes

Type	Dimensions H x W x D mm	Ordering details		Weight kg
		Type Code	Type No.	
Sheet steel flap / 1Row	220 x 420 x 154	EMC 200S EXB F	1SKA 254 242 C0001	4.5
Sheet steel flap / 2Row	420 x 420 x 154	EMC 400S EXB F	1SKA 255 242 C0001	6.5

Top / Bottom extension boxes for flush mounting

Type	Dimensions H x W x D mm	Ordering details		Weight kg
		Type Code	Type No.	
Plain cover	220 x 420 x 154	EMC 200 EXB F	1SKA 252 242 C0001	4.5
Plain cover	420 x 420 x 154	EMC 400 EXB F	1SKA 253 242 C0001	6.5

Distribution boards

Mounting kits for compact

Ordering details

The TP + N busbar type distribution boards are delivered as standard without incoming kits or incoming devices these need to be ordered separately.

Standard kits (Included with the distribution boards but can also be ordered separately as spares)

Kit contains:

- Covers for unused connection busbar points (1 Strip For 4, 6 ways - 2 Strip For 8, 12 ways - 3 Strip For 16, 20 ways - 4 Strip For 24 ways)
- Labels for outgoing circuits on door and trim cover (L1,L2,L3) to suit the board configuration.
- Two keys for door lock.
- Kit parts list.
- Instruction leaflet.



1SKC 015 022 F0001

Kit No.	No. of ways	Ordering details		Weight kg
		Type Code	Type No.	
0	4	EPB KIT 0-1C	1SKA 140 000 C1002	0.04
	6	EPB KIT 0-2C	1SKA 140 000 C1003	0.04
	8	EPB KIT 0-3C	1SKA 140 000 C1004	0.04
	12	EPB KIT 0-4C	1SKA 140 000 C1005	0.04
	16	EPB KIT 0-5C	1SKA 140 000 C1006	0.04
	20	EPB KIT 0-6C	1SKA 140 000 C1007	0.04
	24	EPB KIT 0-7C	1SKA 140 000 C1008	0.05

Isolator Incoming kit

Kit contains:

- Terminal shroud.
- Cover plate with 3 module opening.
- DIN Rail mounting bracket for incoming device.
- Kit parts list.
- Instruction leaflet.



1SKC 015 023 F0001

Kit No.	Incoming Device	Ordering details		Weight kg
		Type Code	Type No.	
8	3 pole isolator or MCB	EPB KIT 8C	1SKA 148 000 C1001	0.12

RCCB Incoming kit

Kit contains:

- Terminal shroud.
- Cover plate.
- DIN Rail mounting bracket for incoming device.
- Neutral wire link (flexible blue 16 mm²)
- Kit parts list.
- Instruction leaflet.



1SKC 015 024 F0001

Kit No.	Incoming Device	Ordering details		Weight kg
		Type Code	Type No.	
2	4 pole RCCB F 200 series	EPB KIT 2C	1SKA 142 000 C1001	0.12

Connection kit For TP+N distribution board with DIN Rail (MX version)

For connection of 4 pole isolator to 4 pole RCCB and RCCB to the main busbar terminals and neutral bar

Kit contains:

- Coloured flexible cables and comb busbar to connect incoming devices to main Busbars.
- Terminals shroud.
- Kit parts list.
- Instruction leaflet.



1SKC 015 025 F0001

Kit No.	Ordering details		Weight kg
	Type Code	Type No.	
7	EPB KIT 7C	1SKA 147 000 C1001	0.47

Distribution boards

Mounting kits for compact

Ordering details (continued)



MCCB Incoming kit

Kit contains:

- Copper connector pieces for L1, L2, L3 complete with fixing screws and washers
- Terminal shroud.
- Cover plate with opening for T1 or T3.
- Kit parts list.
- Instruction leaflet.

Kit No.	Incoming Device	Ordering details		Weight kg
		Type Code	Type No.	
1	T max T1	EPB KIT 1-T1C1	1SKA 141 000 C3001	0.3
	T max T3	EPB KIT 1-T3C1	1SKA 141 000 C3003	0.4

Direct cable connection kit (70 mm)

Kit contains:

- Copper connector pieces for L1, L2, L3 complete with fixing screws, washers and support.
- 2x Terminal shroud.
- Cover plate.
- Kit parts list.
- Instruction leaflet.

Kit No.	Incoming Device	Ordering details		Weight kg
		Type Code	Type No.	
4	70 mm direct	EPB KIT 4C1	1SKA 144 000 C3001	0.2

Direct cable connection kit (120 mm)

Kit contains:

- Copper connector pieces for L1, L2, L3 complete with fixing screws, washers and support.
- Two terminal shrouds.
- Cover plate.
- Kit parts list.
- Instruction leaflet.

Kit No.	Incoming Device	Ordering details		Weight kg
		Type Code	Type No.	
3	120 mm direct	EPB KIT 3C1	1SKA 143 000 C3001	0.45

Single phase conversion kit

Kit contains:

- Copper connector piece complete with fixing screws and washers.
- Terminal shroud.
- Cover plate.
- DIN Rail mounting bracket for incoming device.
- Neutral wire link (flexible blue 16 mm²).
- Kit parts list.
- Instruction leaflet.

Kit No.	Ordering details		Weight kg
	Type Code	Type No.	
6	EPB KIT 6C1	1SKA 146 000 C3001	0.16

Joining kit

Used to mount two Protecta distribution boards, side by side or Protecta distribution board with side extension box. One kit is used for all distribution board configurations.

Kit contains:

- 3 rubber gaskets.
- 6 joining bolts 5x20 mm complete with fixing washers
- Kit parts list.
- Instruction leaflet.

Kit No.	Ordering details		Weight kg
	Type Code	Type No.	
5	EPB KIT 5	1SKA 145 000 C0001	0.06

Distribution boards

Spare parts and general accessories

Ordering details



Spare parts and general accessories

Description	Ordering details		Weight kg
	Type Code	Type No.	
Blanking plates used to cover unused MCB ways in the consumer units and distribution boards front cover supplied in a strip of 12 modules.	SZ-BP12	GJF1 101 902 R0008	0.05
Busbar terminal cover used to cover unused outgoing busbar terminals supplied in a strip of 5 pieces.	SZ-BSK1	2CDL 200 001 R0011	0.003
Copper connection terminal for connecting incoming cable to neutral or earth terminal bars.	NPE-CT	1SKB 014 701 P0001	0.03
Terminal shroud	MTSH-C	1SKA 136 000 C0001	0.10
Front fascia cover	PEFC-C	1SKA 137 000 C0001	

Neutral terminal bar kit complete

Kit contains:

- 1 Terminal bar.
- 2 Terminal bar carrier (support).
- 1 Kit shield cover.
- 1 Warning label-small size.
- 1 Copper cable connector complete with screw and washers.
- 2 White numbering labels for N terminal bars.
- 1 Work instruction.

Description	Ordering details		Weight kg
	Type Code	Type No.	
N-bar 9 holes complete with screws & shield cover 4 way	NTB - 04 W	1SKP 011 911 R0001	0.12
N-bar 13 holes complete with screws & shield cover 6 way	NTB - 06 W	1SKP 011 911 R0002	0.14
N-bar 17 holes complete with screws & shield cover 8 way	NTB - 08 W	1SKP 011 911 R0003	0.16
N-bar 21 holes complete with screws & shield cover 12 way	NTB - 12 W	1SKP 011 911 R0004	0.18
N-bar 13&17 holes complete with screws & shield cover 16 way	NTB - 16 W	1SKP 011 911 R0005	0.28
N-bar 17&21 holes complete with screws & shield cover 20 way	NTB - 20 W	1SKP 011 911 R0006	0.32
N-bar 21&21 holes complete with screws & shield cover 24 way	NTB - 24 W	1SKP 011 911 R0007	0.34

Earth terminal bar kit complete

Kit contains:

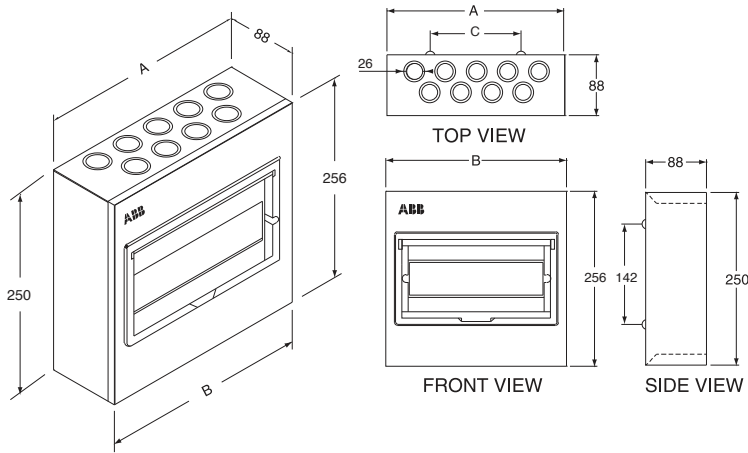
- 1 Terminal bar.
- 1 Copper cable connector complete with screw and washers.
- 2 Yellow numbering labels for PE terminal bars.
- 1 Work instruction.

Description	Ordering details		Weight kg
	Type Code	Type No.	
PE-bar 9 holes complete with screws 4 way	PETB - 04 W	1SKP 011 914 R0001	0.08
PE-bar 13 holes complete with screws 6 way	PETB - 06 W	1SKP 011 914 R0002	0.1
PE-bar 17 holes complete with screws 8 way	PETB - 08 W	1SKP 011 914 R0003	0.12
PE-bar 21 holes complete with screws 12 way	PETB - 12 W	1SKP 011 914 R0004	0.14
PE-bar 13&17 holes complete with screws 16 way	PETB - 16 W	1SKP 011 914 R0005	0.19
PE-bar 17&21 holes complete with screws 20 way	PETB - 20 W	1SKP 011 914 R0006	0.23
PE-bar 21&21 holes complete with screws 24 way	PETB - 24 W	1SKP 011 914 R0007	0.25

Consumer Units

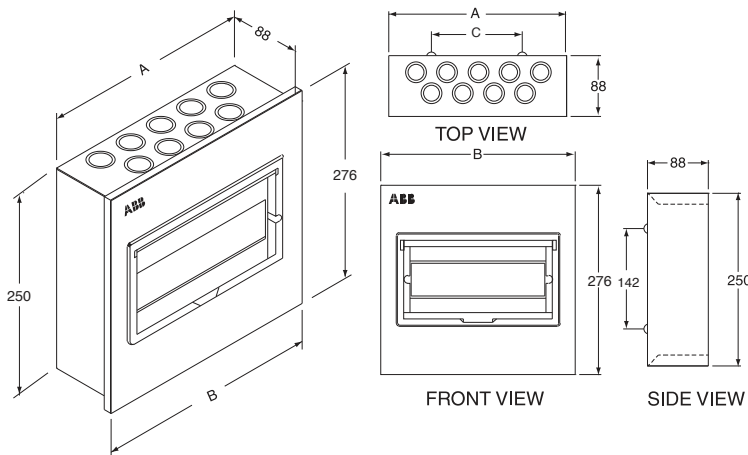
Dimensional details

Comby plastic flap consumer unit surface mounted



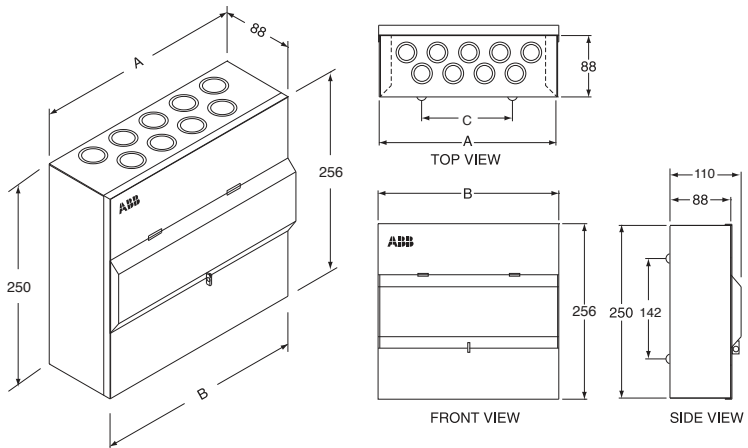
Type Code	No. of Modules	A (mm)	B (mm)	C (mm)
ECT 107 S	7	203	209	133
ECT 110 S	10	257	263	187
ECT 116 S	16	262	366	292
ECT 120 S	20	434	440	366

Comby plastic flap consumer unit flush mounted



Type Code	No. of Modules	A (mm)	B (mm)	C (mm)
ECT 107 F	7	203	229	133
ECT 110 F	10	257	283	187
ECT 116 F	16	262	386	292
ECT 120 F	20	434	460	366

Comby steel flap consumer unit surface mounted

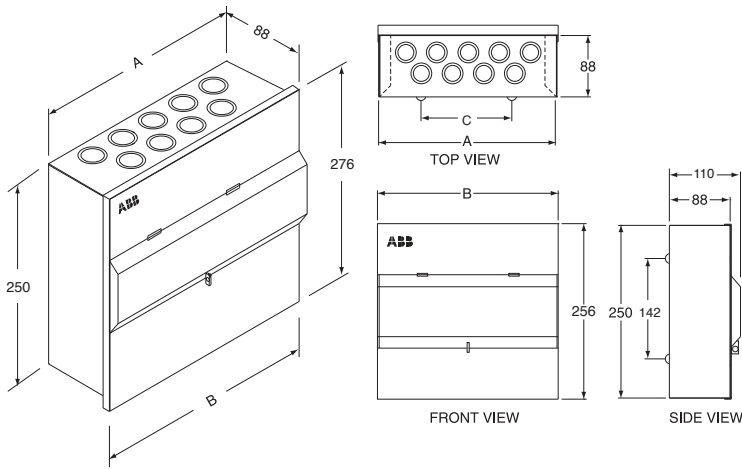


Type Code	No. of Modules	A (mm)	B (mm)	C (mm)
ECS 107 DS	7	203	209	133
ECS 110 DS	10	257	263	187
ECS 116 DS	16	262	366	292
ECS 120 DS	20	434	440	366

Consumer Units

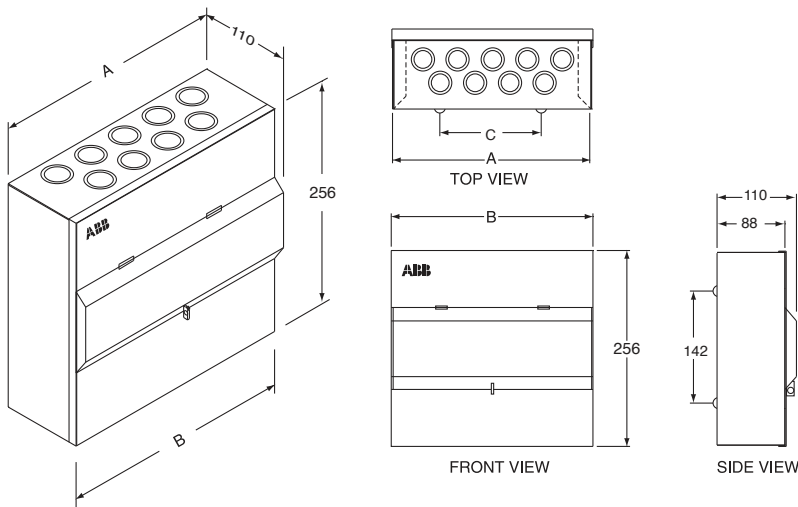
Dimensional details (continued)

Comby steel flap consumer unit flush mounted



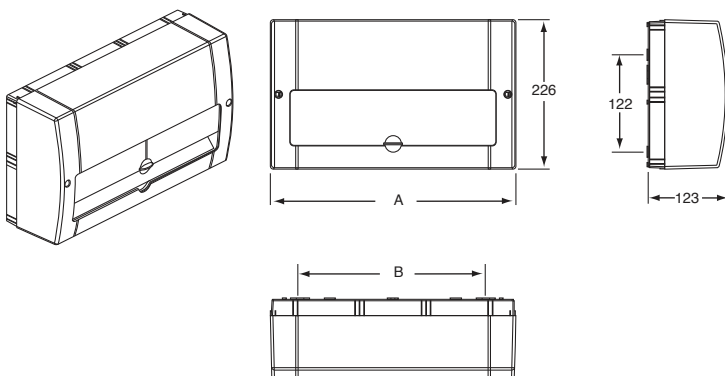
Type Code	No. of Modules	A (mm)	B (mm)	C (mm)
ECS 107 DF	7	203	229	133
ECS 110 DF	10	257	283	187
ECS 116 DF	16	262	386	292
ECS 120 DF	20	434	460	366

Housemaster compact sheet steel consumer unit surface mounted



Type Code	No. of Modules	A (mm)	B (mm)	C (mm)
HSMS 04C	6	152	155	77
HSRC 04C				
HSMS 07C	9	207	210	133
HSRC 07C				
HSMS 11C	13	257	263	187
HSRC 11C				
HSSL 4+4C				
HSMS 16C	18	365	368	292
HSRC 16C				
HSSL 6+6C				
HSMS 20C	22	437	440	360
HSRC 20C				
HSSL 8+8C				

Housemaster compact plastic consumer unit surface mounted

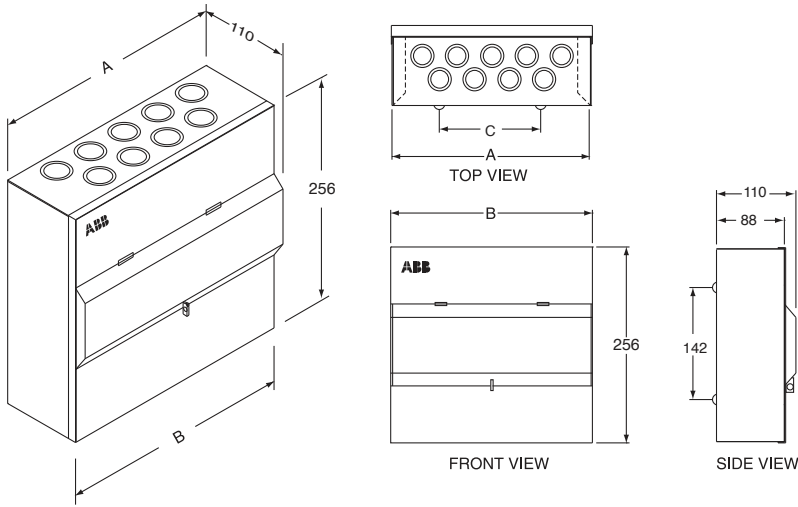


Type Code	No. of Modules	A (mm)	B (mm)
HMMS 04C	6	190	100
HMRC 04C			
HMMS 07C	9	230	140
HMRC 07C			
HMMS 11C	13	300	210
HMRC 11C			
HMSL 4+4C			
HMMS 16C	18	370	280
HMRC 16C			
HMSL 6+6C			
HMMS 20C	22	440	350
HMRC 20C			
HMSL 8+8C			

Distribution Boards

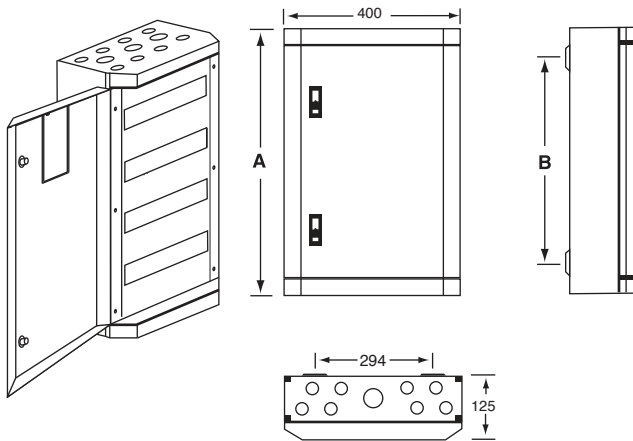
Dimensional details (continued)

Protecta compact single row distribution boards surface mounted



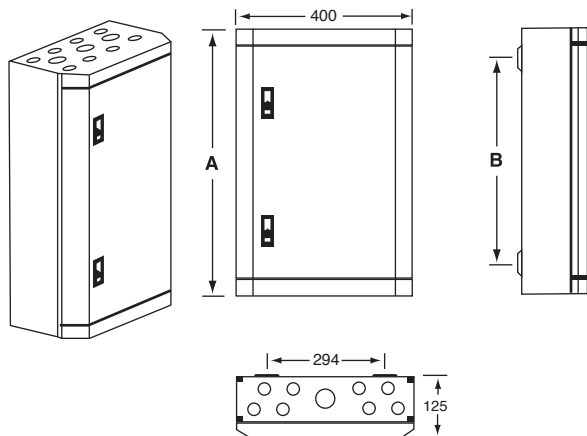
Type Code	No. of O/G Modules	A (mm)	B (mm)	C (mm)
ECS 104C	4	152	155	77
ECS 107C	7	207	210	133
ECS 111C	11	257	263	187
ECS 116C	16	365	368	292
ECS 120C	20	437	440	360

Protecta multi row distribution boards



Type Code	No. of Ways	A (mm)	B (mm)
EPA 01	16	280	94
EPA 02	32	502	332
EPA 03	48	650	438
EPA 04	64	800	546
EPA 05	80	1000	829

Protecta compact busbar type distribution boards

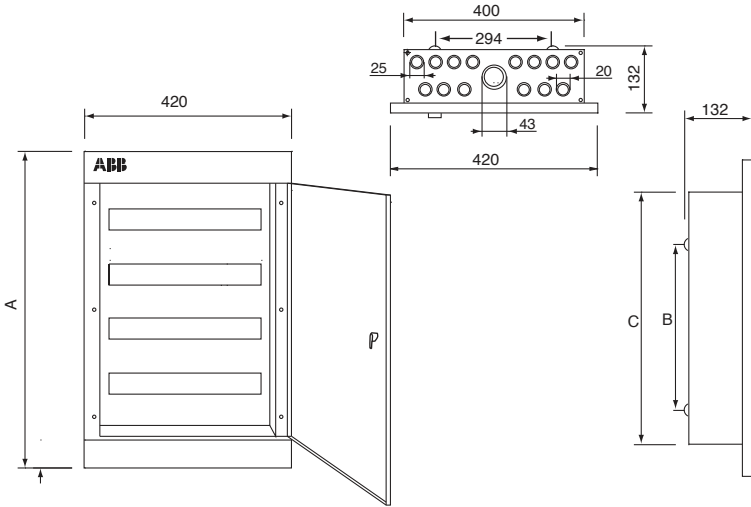


Type Code	No. of Ways	A (mm)	B (mm)
EPB25-304C	4	502	332
EPB 304 MXC			
EPB25-306C	6	560	386
EPB 306 MXC			
EPB25-308C	8	610	438
EPB 308 MXC			
EPB25-312C	12	718	546
EPB 312 MXC			
EPB25-316C	16	830	654
EPB25-320C	20	1000	829
EPB25-324C	24	1140	969

Distribution Boards

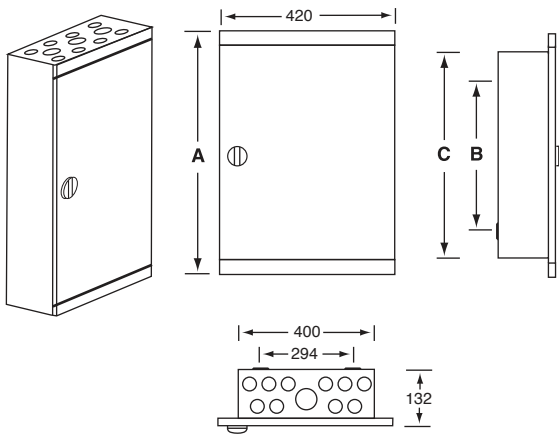
Dimensional details (continued)

Minicenter multi row distribution boards



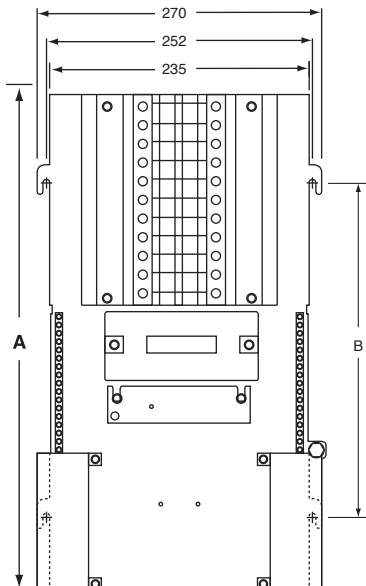
Type Code	No. of Modules	A (mm)	B (mm)	C (mm)
EMC 120 RXF	20	320	94	278
EMC 232 RXF	32	540	312	496
EMC 348 RXF	48	690	462	646
EMC 464 RXF	64	840	566	750
EMC 580 RXF	80	990	736	918

Minicenter busbar type distribution boards



Type Code	No. of ways	A (mm)	B (mm)	C (mm)
EMC 312 CF-16	4	540	316	498
EMC 318 CF-16	6	600	372	558
EMC 324 CF-16	8	650	426	608
EMC 336 CF-16	12	758	534	716
EMC 348 CF-16	16	870	642	828

Protecta compact pan assemblies



Type Code	No. of Ways	A (mm)	B (mm)
EPB 304 PAC-16 EPB25-PA304C	4	375	202
EPB 306 PAC-16 EPB25-PA306C	6	429	256
EPB 308 PAC-16 EPB25-PA308C	8	483	310
EPB 312 PAC-16 EPB25-PA312C	12	591	418
EPB 316 PAC-16 EPB25-PA316C	16	699	526
EPB 320 PAC-16 EPB25-PA320C	20	875	701
EPB 324 PAC-16 EPB25-PA324C	24	1014	841

Depth 60 mm.

Contact us

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for a better world™

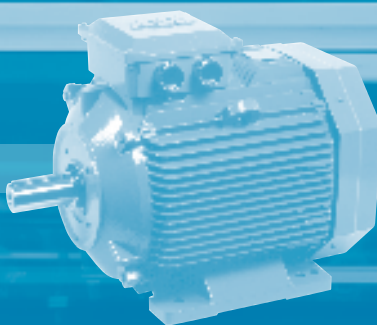


Electronic Overload Relays

New complete range up to 1250A



New



ABB

Electronic overload relays from ABB

A complete range from 0,1A ...1250A

- Up to 1000V and temperature range from -25 ... +70 °C
- Acc. to IEC/EN 60 947-4-1 and UL508
- Tripping classes 10, 20, 30
- ATEX / Ex-approved

- Low-energy consumption
- Direct mounting to ABB contactors
- Separate mounting kits available
- Independent from ambient temperature
- Wide setting range

Electronic overload relays...

...are environmental friendly

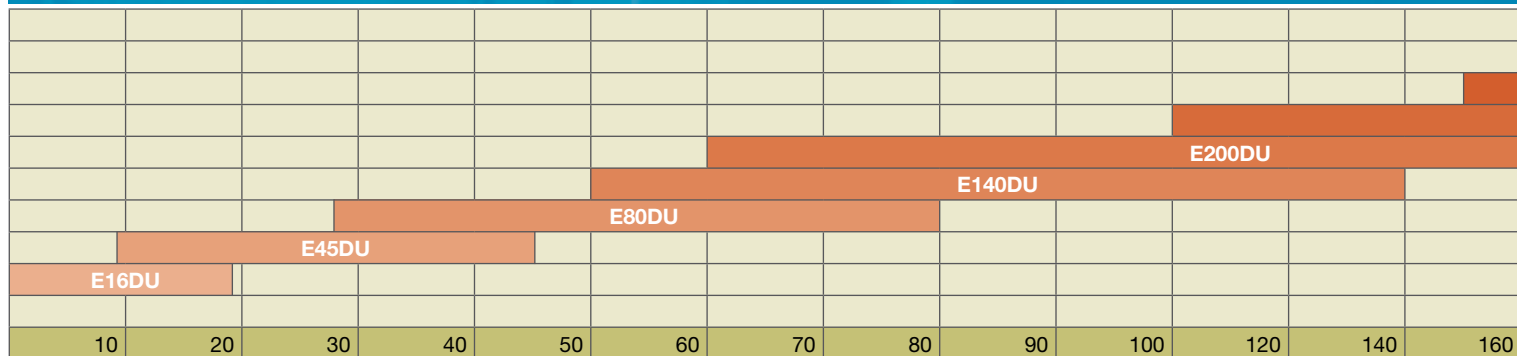
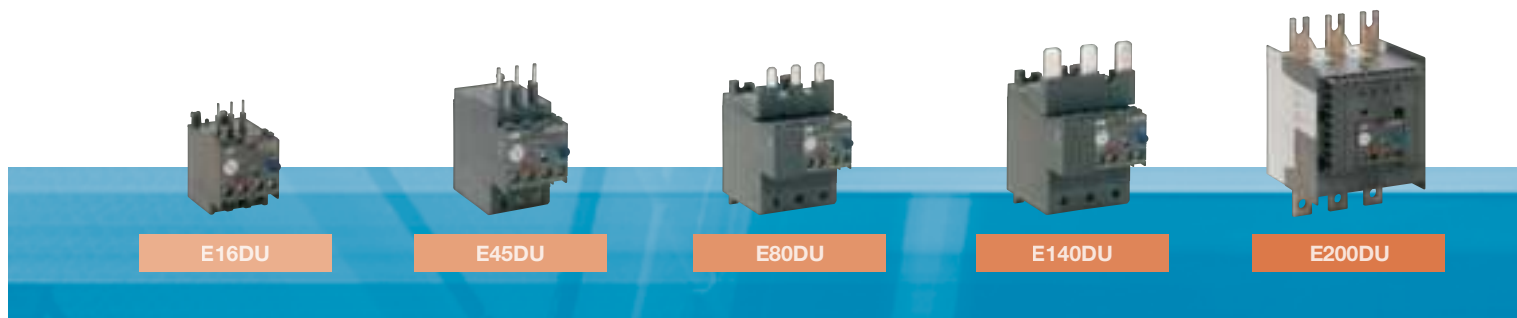
- Low power consumption saves energy
- Materials employed can be recycled

...are safe and flexible

- Better accuracy
- Digital evaluation
- Less variants

...save costs

- smaller cabinets due to less heat dissipation
- less inventory



Motor Starter Combinations – Overview



Electronic Overload Relays class 10, 20, 30

Type	Setting range	Trip Class	Order Code	Contactors Designation
Trip Class 10				
E16DU0.32-10	0,1-0,32A	10	1SAX111201R0001	B...6-B...7 / A...9...A...16...
E16DU1.0-10	0,3-1,0A	10	1SAX111201R0002	B...6-B...7 / A...9...A...16...
E16DU2.7-10	0,9-2,7A	10	1SAX111201R0003	B...6-B...7 / A...9...A...16...
E16DU6.3-10	2,0-6,3A	10	1SAX111201R0004	B...6-B...7 / A...9...A...16...
E16DU18.9-10	5,7-18,9A	10	1SAX111201R0005	B...6-B...7 / A...9...A...16...
Trip Class 20				
E16DU0.32-20	0,1-0,32A	20	1SAX111301R0001	B...6-B...7 / A...9...A...16...
E16DU1.0-20	0,3-1,0A	20	1SAX111301R0002	B...6-B...7 / A...9...A...16...
E16DU2.7-20	0,9-2,7A	20	1SAX111301R0003	B...6-B...7 / A...9...A...16...
E16DU6.3-20	2,0-6,3A	20	1SAX111301R0004	B...6-B...7 / A...9...A...16...
E16DU18.9-20	5,7-18,9A	20	1SAX111301R0005	B...6-B...7 / A...9...A...16...
Trip Class 30				
E16DU0.32-30	0,1-0,32A	30	1SAX111401R0001	B...6-B...7 / A...9...A...16...
E16DU1.0-30	0,3-1,0A	30	1SAX111401R0002	B...6-B...7 / A...9...A...16...
E16DU2.7-30	0,9-2,7A	30	1SAX111401R0003	B...6-B...7 / A...9...A...16...
E16DU6.3-30	2,0-6,3A	30	1SAX111401R0004	B...6-B...7 / A...9...A...16...
E16DU18.9-30	5,7-18,9A	30	1SAX111401R0005	B...6-B...7 / A...9...A...16...
Trip Class 10				
E45DU30	9-30A	10	1SAX211201R1001	A...26 ... A...40
E45DU45	15-45A	10	1SAX211201R1002	A...26 ... A...40
E80DU80	27-80A	10	1SAX311201R1001	A...50 ... A...75
E140DU140	50-140A	10	1SAX311201R1002	A...95 ... A...110
Trip Class 10, 20, 30 selectable				
E45DU30	9-30A	selectable	1SAX211001R1001	A...26 ... A...40
E45DU45	15-45A	selectable	1SAX211001R1002	A...26 ... A...40
E80DU80	27-80A	selectable	1SAX311001R1001	A...50 ... A...75
E140DU140	50-140A	selectable	1SAX311001R1002	A...95 ... A...110
E200DU200	60-200A	selectable	1SAX511001R0001	A...145 ... A...185
E320DU320	100-320A	selectable	1SAX611001R0002	A...210 ... A...300
E500DU500	150-500A	selectable	1SAX711001R0001	A...400 ... A...460
E800DU800	250-800A	selectable	1SAX811001R0001	A...580 ... A...750
E1250DU1250	375-1250	selectable	1SFA739001R1000	A...1350 ... A...1630

Accessories

Type	Description	Order Code
DB16E	separate mounting kit	1SAX101110R0001
DB45E	separate mounting kit	1SAX201110R1001
DB80E	separate mounting kit	1SAX301110R1001
DB140E	separate mounting kit	1SAX301110R1002
DT500/AF460L	Busbar Kit for AF 400, 460 YD, revers.	1SAX701902R1001
DT500/AF460S	Busbar Kit for AF 400, 460 DOL	1SAX701902R1011
DT800/AF750L	Busbar Kit for AF 580, 750 YD, revers.	1SAX801902R1001
DT800/AF750S	Busbar Kit for AF 580, 750 DOL	1SAX801902R1011
LT200E	Terminal shrouds for E200DU	1SAX501904R0001
LT320E	Terminal shrouds for E320DU	1SAX601904R0001
LT500E	Terminal shrouds for E500DU	1SAX701904R0001
LT800E	Terminal shrouds for E800DU	1SAX801904R0001

Reliable motor protection

ABB has always been committed to the issue of protecting motors. After all, any overload to a motor used in an industrial plant can give rise to production downtime and repair work, all of which drive costs up to a level many times the expense of investing in reliable overload and motor protection.

Electronic overload relays protect the motor from:

- overload
- phase unbalance
- phase failure



An electronic overload relay has advantages compared to a conventional thermal overload relay in a wider range of settings and temperatures and a higher accuracy. In addition, electronic relays can be used in standard motors and for heavy-duty start-ups. A complete range of electronic overload relays from 0,1A to 1250A with tripping classes 10,20 and 30 is available. Up from construction size E45DU the tripping classes 10, 20 or 30 can be selected directly on the device.

ATEX certificates are available for protection of motors in explosion areas.

These electronic overload relays are cost-effective – simply because you only need a few units to cover a wide measuring range. This delivers user benefits in terms of planning, inventory and service.

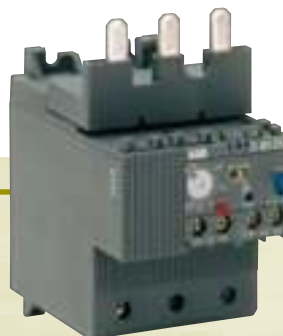
Another major advantage is the low power consumption, something which has a noticeable impact on energy costs and the cost of housings and cooling provisions.

Motor Protection from ABB

Thermal overload relays
between 0.1 – 310A
Tripping classes 10, 20, 30



Electronic overload relays
between 0.1 – 1250A
Tripping classes 10, 20, 30



Manual Motor Starters
between 0.1 – 100A
Tripping classes 10, 20
Integrated short circuit protection



Universal motor controller
between 0.16 – 850A
Tripping classes 5, 10, 20, 30
Integrated inputs/outputs
Motor control and diagnostic functions
Field bus connection



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ATS021, ATS022 Automatic Transfer Switches

ATS021, ATS022

Automatic transfer switch

ABB presents the new generation of Automatic Transfer Switches, the result of worldwide experience in low voltage applications.

The new generation of the ATS family – ATS021 and ATS022, offers the most advanced and comprehensive power continuity solution.

Reliability, safety and intelligence are the major features of the new ATS family, which complies with international standards, is simple to configure and adaptable to all application scenarios.

Moreover, its perfect integration with all ABB circuit-breakers and switch-disconnectors ensures a fully coordinated system.

Multi-function logic to meet all requirements

- Standard switching logic allows monitoring of the normal and emergency line, sending commands to the generator and controlling that the circuit-breakers have been switched;
- Management of both the two non-priority lines (ATS021, ATS022);
- Management of a third bus-tie circuit-breaker (ATS022);
- Management of non-priority load disconnection.

No auxiliary power supply required

The new ATS family is designed to work without an auxiliary power supply. An auxiliary power supply is only required when Modbus RS485 communication is used or in networks with 16 2/3 Hz rated frequency.

Compliance with IEC and EN 60947 Standards

Compliance with the IEC and EN 60947 Standards allows the new ATS family to provide the quality and safety needed for all requirements.

Compatibility with ABB circuit-breakers and switch-disconnectors

The ATS family can be used with ABB SACE Tmax (XT1...XT4, T3...T7) and Emax (X1, E1...E6) series of circuit-breakers and switch-disconnectors, fitting into a complete and coordinated system.

Advanced communication interface

ATS022 is equipped with a communication unit which allows integration with the supervision systems via Modbus RS485. Furthermore, ATS022 is fitted with a graphic display which makes parameter configuration and display extremely simple.

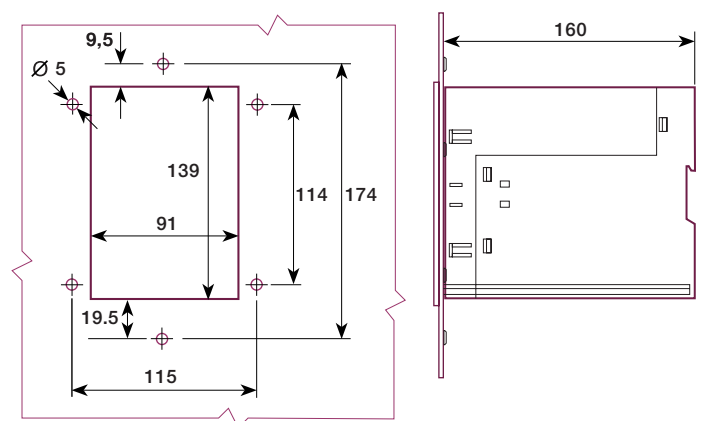
Applications

The ATS family is particularly suited to use in all emergency power supply systems where a solution which is simple to use, reliable and rapid to install is required.

Below are some of the main applications of ATS:

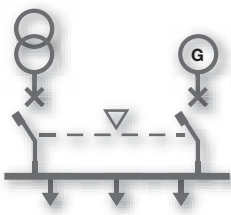
- Power supply for UPS units;
- Operating theatres and primary hospital services;
- Emergency power supplies for civil building, hotels and airports;
- Data banks and telecommunication systems;
- Power supply of industrial line for continuous processes.

Dimensions



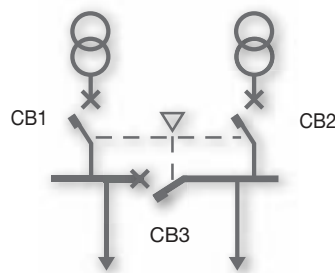
Ordering codes

Order code	Description
1SDA065523R1	ATS021 Automatic transfer switch
1SDA065524R1	ATS022 Automatic transfer switch



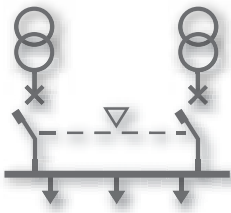
LINE-GENERATOR

If the main network goes down, the ATS021 and ATS022 devices allow management of switching over to the emergency line fitted with a GenSet system.



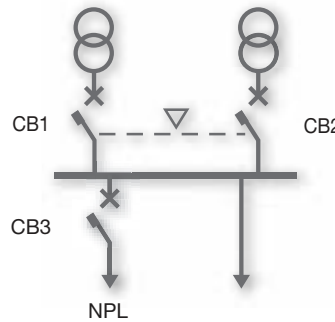
MANAGEMENT OF TWO INDEPENDENT POWER SUPPLY LINES SEPARATED BY A BUS-TIE

If one of the two power supply lines goes down, the available line supplies both the load side sections by means of the bus-tie (ATS022).



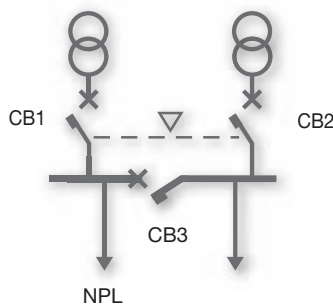
LINE-LINE

If the main network goes down, the ATS021 and ATS022 devices allow switching to a second line used as a reserve line. ATS022 allows you to select which of the two lines available is to be the priority line.



MANAGEMENT OF THE NON-PRIORITY LOADS ON THE OUTGOING LINE

If the main network goes down, the ATS022 device allows switching to a second line used as the reserve line, disconnecting the non-priority loads (NPL) by means of a bus-tie.



MANAGEMENT OF NON-PRIORITY LOADS BY MEANS OF A BUS-TIE

Should the main network go down, the ATS022 device allows you to switch to a second line used as a reserve line, disconnecting the non-priority loads (NPL) shunted from the main busbar.

Technical Characteristics



		ATS021	ATS022	
General	Auxiliary power supply	Not required	Not required (24-110 VDC is required only for Modbus dialogue and 16 2/3 Hz systems)	
	Maximum voltage, Un	Max 480 VAC	Max 480 VAC	
	Frequency, fn	50, 60 Hz	16 2/3, 50, 60, 400 Hz	
	Dimensions		H mm	96
			W mm	144
			P mm	170
Type of installation	Door mounting – DIN rail mounting	Door mounting – DIN rail mounting		
Operating Mode	Auto/Manual	Auto/Manual		
Features	Normal and Emergency line monitoring	•	•	
	Normal and Emergency line CB control	•	•	
	Generator start-up	•	•	
	Adjustable Generator shutdown delay	•	•	
	Bus-tie	-	•	
	No-priority Line	-	•	
	Priority Line Selection	-	•	
	Display	-	•	
Environmental conditions	Degree of protection	IP20	IP20	
	Operating temperature	-20 ... +60°C	-20 ... +60°C	
	Maximum humidity	5% - 90% without condensation	5% - 90% without condensation	
Operating thresholds	Min. voltage threshold	-30% ... -5% Un	-30% ... -5% Un	
	Max. voltage threshold	+5% ... +30% Un	+5% ... +30% Un	
	Frequency threshold	-10% ... +10% fn	-10% ... +10% fn	
Tests	Test Mode	•	•	
	Test Gen set Mode	•	•	
Compliance with standards	Electronic equipment for use in power installations	EN-IEC 50178	EN-IEC 50178	
	Electromagnetic compatibility	EN 50081-2	EN 50081-2	
		EN 50082-2	EN 50082-2	
	Environmental conditions	IEC 68-2-1	IEC 68-2-1	
		IEC 68-2-2	IEC 68-2-2	
	IEC 68-2-3	IEC 68-2-3		

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Power and productivity
for a better world™





Catalog

Industrial Plugs & Sockets

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Industrial Plugs and Sockets

A perfect choice

The ABB Industrial Plugs and Sockets are a part of the comprehensive ABB program of high quality low voltages products for industries, buildings and OEM's.

ABB Cewe-Control has manufactured Industrial Plugs and Sockets for over 60 years in the factory located in Nyköping, Sweden. Long experience of developing and manufacturing plugs and sockets within ABB has resulted in a wide product range of high quality and a robust ergonomic design. Covering products up to 125 A and 690 V, all tested and approved for IEC standards.

The design and material used have continuously been improved to meet the customer's requirements, and to take the environmental aspects into consideration.

ABB Industrial Plugs and Sockets have the solution for products in industrial environments with high demands on safety, durability, reliability and cost saving for the end user.

- Safety - tested and approved by third party testing laboratories.
- Durability - materials used give a high durability in tough conditions and environments.
- Reliability - high quality contacts ensure reliability.
- Cost saving - designed for quick and easy installation.

You will find all you need in the ABB Industrial Plugs and Sockets product range. One supplier for all your needs and worldwide availability.

Perfect performance

All Plugs and Sockets in our range comply with high standards of quality meeting different required tasks. Some are made of heavy-duty plastics (PBT), others of metal. Some have advanced features while others have a straight forward functionality. Perfect for demanding customers.

Perfect productivity

The result is that you can rely on all our Plugs and Sockets to help you maintain a high up-time in your operations. No unscheduled or unwanted interruptions, allowing you a high degree of flexibility.

Perfect safety

Safety is also very important. By choosing ABB Plugs and Sockets you minimize the risk of short circuits. You also ensure maximum personal safety for anyone nearby or around your equipment.

Perfect for the job

Different applications and environments require different products. To make your choice of products easier, we have categorized our range into three groups. All groups have however one feature in common - Safety!



- Select Critical & Safe products for the highest safety in fixed installations.



- Select Tough & Safe products for best performance in demanding and heavy-duty applications.



- Select Easy & Safe products for adequate functionality and ergonomic design.

The structure of our main catalog is based on these three groups. Look for the three different symbols to make your choice.

ABB Industrial Plugs and Sockets – a complete offer

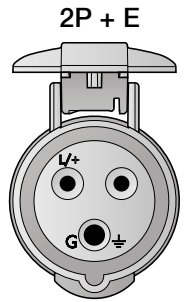
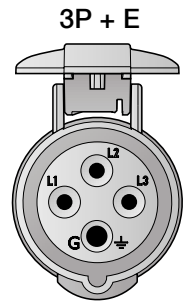
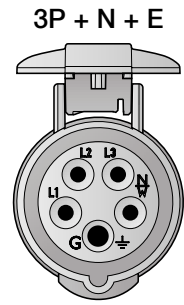
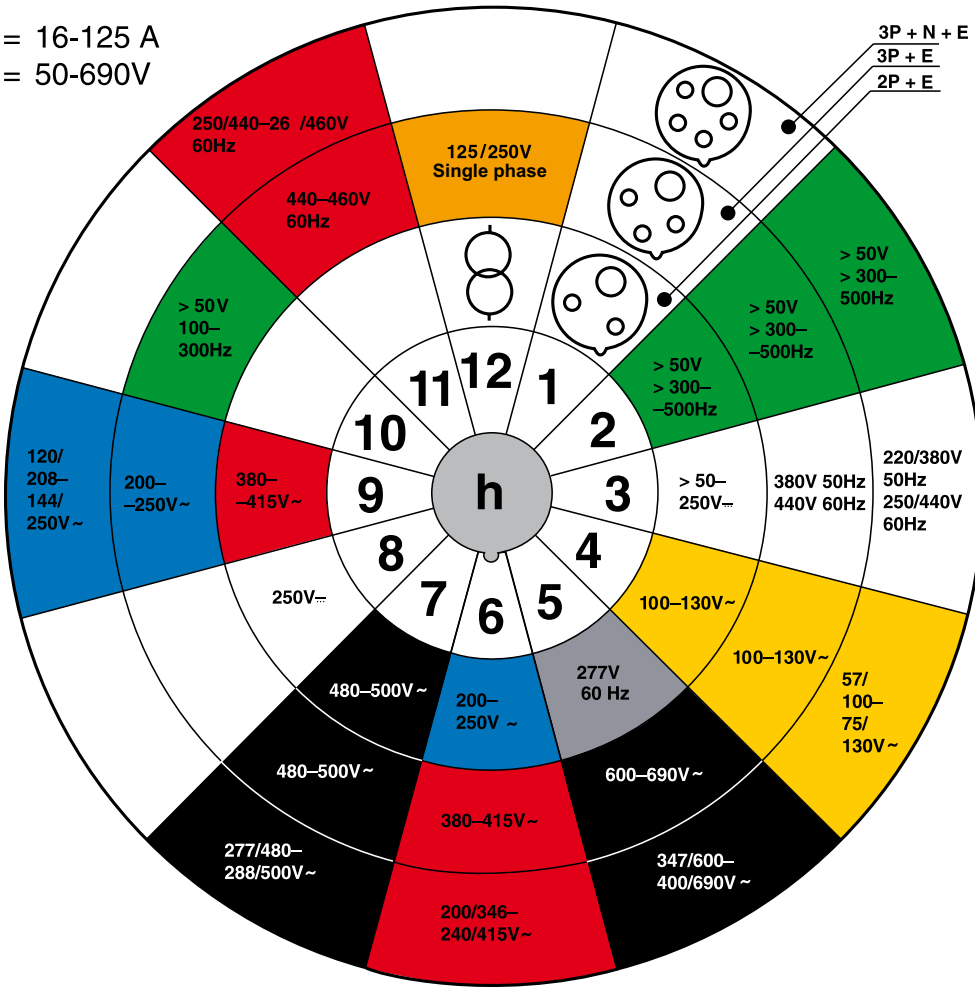
- Approved according to IEC 60 309-1, -2, -4
- Range from 16 A up to 125 A.
- IP 44 (splashproof) and IP67 (watertight).
- All contacts are self cleaning and calibrated, to maintain the accurate contact pressure, quality and performance over time.
- Plugs and Sockets for 63 and 125 A have pins and sleeves carriers in glass fiber reinforced polyamide.
- For devices in the Critical & Safe and Tough & Safe range, all external screws are made of stainless steel.
- Clear terminal markings inside and at the front of the devices.
- Switched interlocked socket-outlets for vertical or horizontal mounting.



Industrial Plugs and Sockets

IEC 60 309-2 "clock"

$I_e = 16-125 \text{ A}$
 $U_e = 50-690 \text{ V}$



Standard voltages

Color codes according to IEC60309-1, -2

Position of earthing sleeve according to IEC 60309-2 (clock)		2P+earth	3P+earth	3P+N+earth
1	All operating voltages and/or currents not stated below	Optional voltage (not stated below)	Optional voltage (not stated below)	Optional voltage (not stated below)
2	Aeronautics/airports, military	>50 V >300-500 Hz 16, 32A	>50 V >300-500 Hz 16, 32A	>50 V >300-500 Hz 16, 32A
3	3-phase only for cooling containers (standardized by ISO)	50-250 V DC	380 V 50 Hz, 440 V 60 Hz 16, 32 A	220/380 V 50 Hz, 250/440 V 60 Hz 16, 32 A
4	For example in U.K.	100-130 V 50/60 Hz	100-130 V 50/60 Hz	57/100-75/130 V 50/60 Hz
5	Wind power	277 V 60 Hz	600-690 V 50/60 Hz	647/600-400/690 V 50/60 Hz
6	Most common voltages in Western Europe	200-250 V 50/60 Hz	380-415 V 50/60 Hz	200/346-240/415 V 50/60 Hz
7	Paper mills, steel plants, ship building industry	480-500 V 50/60 Hz	480-500 V 50/60 Hz	480-500 V 50/60 Hz
8		>250 V DC	Not used	Not used
9	For example in Norway	380-415 V 50/60 Hz	200-250 V 50/60 Hz	
10		Not used	>50 V >100-300 Hz	Not used
11	Mainly for marine installations	Not used	440-460 V 60 Hz	
12	Supply from isolating transformer	Supply from isolating transformer	125/250 V Single phase	Not used

Product overview

Critical & Safe



Critical & Safe is the range for applications with high demands on safety, durability and performance. Perfect for applications with frequent connection / disconnection, and to use in public areas.

The housing is made of PBT or aluminum. PBT is a tough plastic material that withstands heavy-duty usage and most chemicals found in industrial environments. The aluminum housing is a mix of aluminium and silicon called Silumin, which gives an excellent protection against corrosion while being robust and tough against impact and sun light.

Features

- IP67 Watertight or IP44 Splashproof
- 16 - 125 A, 50 - 690 VAC
- IEC 60 309-2, -4
- All external screws are made of stainless steel

Applications

- Heavy / chemical industry
- Sawmills
- Airports
- Hospitals

Type: 4125MVS6WH

Brass threaded inserts

Padlockable handle

Space for wiring and easy access for cables

Material that withstands heavy-duty usage and most chemicals found in industrial environments

Mechanically interlocked to prevent making and breaking under load

Clear terminal marking, inside and outside the box
Ground \perp
Neutral N
Phase L1, L2, L3

Cover and mounting screws made of stainless steel

Rugged hinge mechanism pivots 180° for easy access during installation and maintenance

Pre-wired IEC receptacle accepts all manufacturer's IEC 60 309-2 plugs



Product overview

Tough & Safe



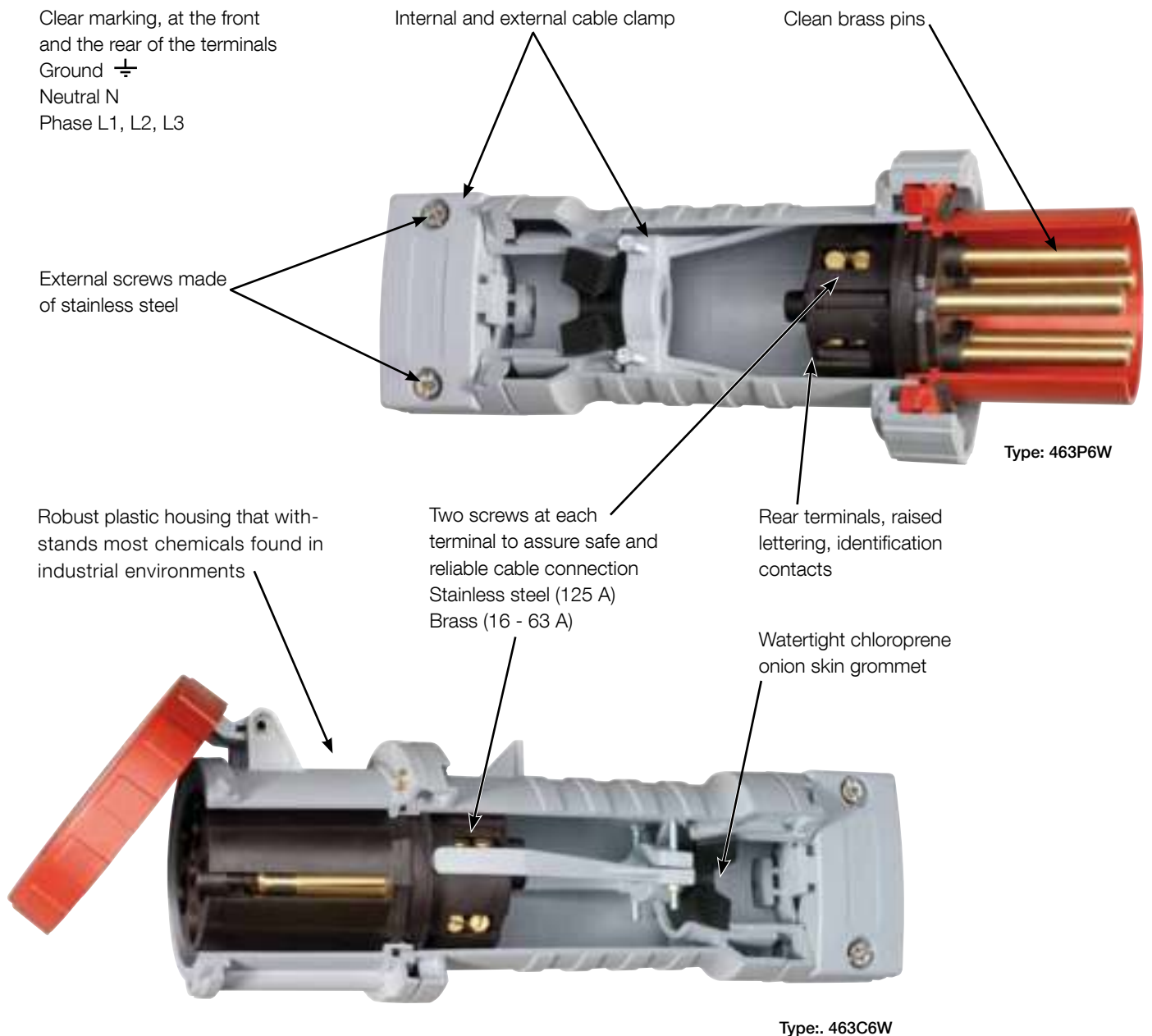
Tough & Safe is the range for applications in environments that have high demand of functionality and safety. The robust housing is made of PBT plastic. The range Tough & Safe is available as watertight (IP67, 16 - 125A) and splashproof (IP44, 63A). The devices are equipped with internal and external cable clamps. The 125A devices are equipped with two screws on each terminal.

Features

- IP67 Watertight or IP44 Splashproof
- 16 - 125 A, 50 - 690 VAC
- IEC 60 309-1, -2
- All external screws are made of stainless steel.

Applications

- Industry / workshops
- Harbours / shipyards
- Mines
- Food & beverage



Product overview

Easy & Safe



Without saving on the quality the Easy & Safe is the range that has an ergonomic design and full of small practical features. The device has a natural designed grip that makes it easy to work with during connection. The combined cable clamp / cable gland, where the strain relief is created by tightening of the gland nut, has a locking mechanism that will continuously apply pressure to the cable.

The installation is easy done due to the clear terminal marking. After connecting the cables the housing is easily closed by a twist. The plastic material PA is used to provide a device that meets requirements of quality and safety.

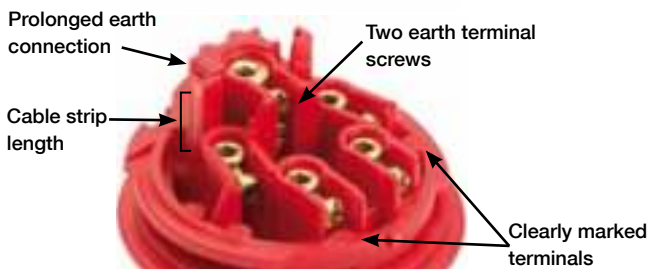
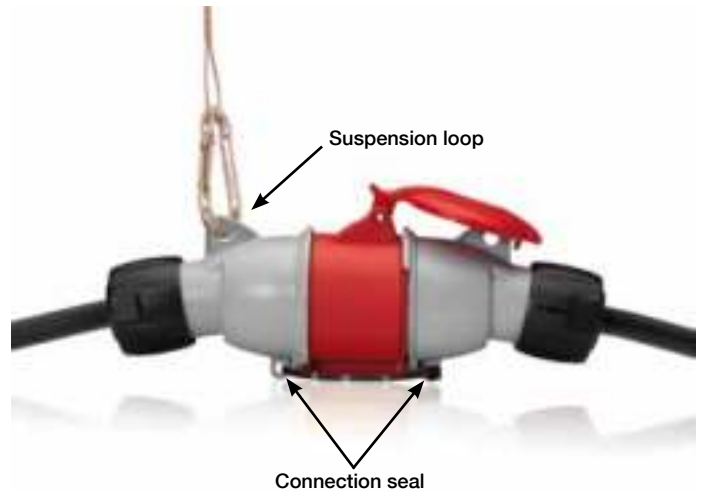
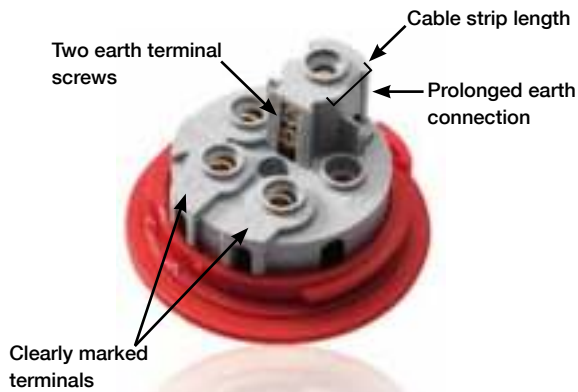
For the user, small features are included such as a sealing / locking feature to avoid accidental disconnection of for example a PA system. A suspension function that enables the user to hang the connector/plug that is not used on the wall or connect to a flexible wire in the ceiling (drop feed).

Features

- IP44 Splashproof
- 16 - 32 A
- PA6 plastic material
- IEC 60 309-1, -2
- Superior grip
- Compact design

Applications

- Light industry
- Construction sites
- Farms
- General equipment



Combination of hard and soft plastic material - both flexible and hard

Cable gland tightening torque



Tool grip



Product overview



Switched Interlocked Socket outlets, horizontal - Page 21



16A 32A 63A

Switched Interlocked Socket outlets, metal enclosed - Page 19



16 - 32A 63A 125A

Switched Interlocked Socket outlets, heavy duty - Page 16



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Plugs - Page 10



16A 32A 63A 63A 125A

Connectors - Page 13



16A 32A 63A 63A 125A



Plugs - Page 10



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Connectors - Page 13



16A 32A

Surface socket-outlets - Page 30



16A 32A

Surface inlets - Page 40



16A 32A

Panel mounted socket outlets
Page 44



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Panel mounted socket inlets
Page 51



16A 16 - 32A

Plugs



16 A, IP44 Splashproof Enclosure in thermoplastic.

Easy
& Safe

Cable entry with compression gland. Cable area 1 - 2.5 mm²

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack qty	Weight kg/ea
2P+E							
3	Grey		AC	216-P1 *	2CMA193535R1000	10	0.11
3	Yellow	100-130	50 and 60	216-P4 *	2CMA193500R1000	10	0.11
3	Blue	200-250	50 and 60	216-P6 *	2CMA193501R1000	10	0.11
3	Red	380-415	50 and 60	216-P9 *	2CMA193502R1000	10	0.11
3	Grey	transf	50 and 60	216-P12 *	2CMA193503R1000	10	0.11
3P+E							
4	Yellow	100-130	50 and 60	316-P4 *	2CMA193504R1000	10	0.16
4	Black	600-690	50 and 60	316-P5 *	2CMA193505R1000	10	0.16
4	Red	380-415	50 and 60	316-P6 *	2CMA193506R1000	10	0.16
4	Black	480-500	50 and 60	316-P7 *	2CMA193507R1000	10	0.16
4	Blue	200-250	50 and 60	316-P9 *	2CMA193508R1000	10	0.16
4	Red	440-460	60	316-P11 *	2CMA193509R1000	10	0.16
3P+N+E							
5	Grey		AC	416-P1 *	2CMA193510R1000	10	0.17
5	Red	346-415	50 and 60	416-P6 *	2CMA193511R1000	10	0.17



32 A, IP44 Splashproof Enclosure in thermoplastic.

Easy
& Safe

Cable entry with compression gland. Cable area 2.5 - 6 mm²

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack qty	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	232-P4 *	2CMA193512R1000	10	0.20
3	Blue	200-250	50 and 60	232-P6 *	2CMA193513R1000	10	0.20
3P+E							
4	Black	600-690	50 and 60	332-P5	2CMA193514R1000	10	0.22
4	Red	380-415	50 and 60	332-P6 *	2CMA193515R1000	10	0.22
4	Black	480-500	50 and 60	332-P7 *	2CMA193516R1000	10	0.22
4	Blue	200-250	50 and 60	332-P9 *	2CMA193517R1000	10	0.22
4	Red	440-460	60	332-P11 *	2CMA193518R1000	10	0.22
3P+N+E							
5	Red	346-415	50 and 60	432-P6 *	2CMA193519R1000	10	0.23



63 A, IP44 Splashproof Enclosure in thermoplastic polyester (PBT).

Tough
& Safe

Cable entry with membrane. Cable area 4 - 16 mm²

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack qty	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	263P4	2CMA166740R1000	1	0.60
3	Blue	200-250	50 and 60	263P6 *	2CMA166742R1000	1	0.60
3P+E							
4	Black	600-690	50 and 60	363P5	2CMA166750R1000	1	0.70
4	Red	380-415	50 and 60	363P6 *	2CMA166752R1000	1	0.70
4	Black	480-500	50 and 60	363P7 *	2CMA166754R1000	1	0.70
4	Blue	200-250	50 and 60	363P9	2CMA166756R1000	1	0.70
3P+N+E							
5	Red	346-415	50 and 60	463P6 *	2CMA166764R1000	1	0.75

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- Dimensions.....page 81

*) Indicates standard product.

Plugs



16 A, IP 67 Watertight Enclosure in thermoplastic polyester (PBT).



Cable entry with compression gland. Cable area 1 - 2.5 mm²

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	216P1W	2CMA166466R1000	1	0.18
3	Grey	>50-250	DC	216P3W	2CMA166456R1000	1	0.18
3	Yellow	100-130	50 and 60	216P4W *	2CMA166458R1000	1	0.18
3	Blue	200-250	50 and 60	216P6W *	2CMA166460R1000	1	0.18
3	Red	380-415	50 and 60	216P9W	2CMA166462R1000	1	0.18
3	Grey	transf	50 and 60	216P12W	2CMA166464R1000	1	0.18

3P+E

4	Grey		AC	316P1W	2CMA166486R1000	1	0.24
4	Green	>50	>300-500	316P2W	2CMA166468R1000	1	0.24
4	Grey	380/440	50/60	316P3W	2CMA166470R1000	1	0.24
4	Yellow	100-130	50 and 60	316P4W	2CMA166472R1000	1	0.24
4	Black	600-690	50 and 60	316P5W *	2CMA166474R1000	1	0.24
4	Red	380-415	50 and 60	316P6W *	2CMA166476R1000	1	0.24
4	Black	480-500	50 and 60	316P7W	2CMA166478R1000	1	0.24
4	Blue	200-250	50 and 60	316P9W	2CMA166480R1000	1	0.24
4	Green	>50	100-300	316P10W	2CMA166482R1000	1	0.24
4	Red	440-460	60	316P11W	2CMA166484R1000	1	0.24

3P+N+E

5	Grey		AC	416P1W	2CMA166502R1000	1	0.26
5	Green	>50	>300-500	416P2W	2CMA166488R1000	1	0.26
5	Yellow	100-130	50 and 60	416P4W	2CMA166492R1000	1	0.26
5	Red	346-415	50 and 60	416P6W *	2CMA166494R1000	1	0.26
5	Black	480-500	50 and 60	416P7W	2CMA166496R1000	1	0.26
5	Blue	208-250	50 and 60	416P9W	2CMA166498R1000	1	0.26
5	Red	440-460	60	416P11W	2CMA166500R1000	1	0.26

32 A, IP 67 Watertight



Enclosure in thermoplastic polyester (PBT).

Cable entry with compression gland, Cable area 2.5 - 6 mm²

Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	232P1W	2CMA166728R1000	1	0.28
3	Yellow	100-130	50 and 60	232P4W	2CMA166504R1000	1	0.28
3	Blue	200-250	50 and 60	232P6W *	2CMA166722R1000	1	0.28
3	Red	380-415	50 and 60	232P9W	2CMA166724R1000	1	0.28
3	Grey	transf	50 and 60	232P12W	2CMA166726R1000	1	0.28

3P+E

4	Grey		AC	332P1W	2CMA166516R1000	1	0.30
4	Green	>50	>300-500	332P2W	2CMA166730R1000	1	0.30
4	Grey	380/440	50/60	332P3W	2CMA166732R1000	1	0.30
4	Yellow	100-130	50 and 60	332P4W	2CMA166734R1000	1	0.30
4	Black	600-690	50 and 60	332P5W	2CMA166736R1000	1	0.30
4	Red	380-415	50 and 60	332P6W *	2CMA166738R1000	1	0.30
4	Black	480-500	50 and 60	332P7W	2CMA166506R1000	1	0.30
4	Blue	200-250	50 and 60	332P9W	2CMA166508R1000	1	0.30
4	Green	>50	100-300	332P10W	2CMA166510R1000	1	0.30
4	Red	440-460	60	332P11W	2CMA166513R1000	1	0.30

3P+N+E

5	Grey		AC	432P1W	2CMA166532R1000	1	0.32
5	Green	>50	>300-500	432P2W	2CMA166518R1000	1	0.32
5	Grey	380/440	50/60	432P3W	2CMA166520R1000	1	0.32
5	Yellow	100-130	50 and 60	432P4W	2CMA166522R1000	1	0.32
5	Red	346-415	50 and 60	432P6W *	2CMA166524R1000	1	0.32
5	Black	480-500	50 and 60	432P7W	2CMA166526R1000	1	0.32
5	Blue	208-250	50 and 60	432P9W	2CMA166528R1000	1	0.32
5	Red	440-460	60	432P11W	2CMA166530R1000	1	0.32

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*) Indicates standard product.

Plugs



63 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT).

Cable entry with compression gland, internal and external cable clamp.

Cable area 4 - 16 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	263P1W	2CMA166780R1000	1	0.95
3	Yellow	100-130	50 and 60	263P4W	2CMA166774R1000	1	0.95
3	Blue	200-250	50 and 60	263P6W	2CMA166776R1000	1	0.95
3	Red	380-415	50 and 60	263P9W	2CMA166778R1000	1	0.95
3P+E							
4	Grey		AC	363P1W	2CMA166794R1000	1	1.05
4	Yellow	100-130	50 and 60	363P4W	2CMA166782R1000	1	1.05
4	Black	600-690	50 and 60	363P5W	2CMA166784R1000	1	1.05
4	Red	380-415	50 and 60	363P6W *	2CMA166786R1000	1	1.05
4	Black	480-500	50 and 60	363P7W	2CMA166788R1000	1	1.05
4	Blue	200-250	50 and 60	363P9W	2CMA166790R1000	1	1.05
4	Red	440-460	60	363P11W	2CMA166792R1000	1	1.05
3P+N+E							
5	Grey		AC	463P1W	2CMA166806R1000	1	1.15
5	Yellow	100-130	50 and 60	463P4W	2CMA166796R1000	1	1.15
5	Red	346-415	50 and 60	463P6W *	2CMA166798R1000	1	1.15
5	Black	480-500	50 and 60	463P7W	2CMA166800R1000	1	1.15
5	Blue	208-250	50 and 60	463P9W	2CMA166802R1000	1	1.15
5	Red	440-460	60	463P11W	2CMA166804R1000	1	1.15



125 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT)

Cable entry with compression gland, internal and external cable clamp.

Cable area 16 - 50 mm²



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	2125P1W	2CMA166812R1000	1	1.32
3	Yellow	100-130	50 and 60	2125P4W	2CMA166808R1000	1	1.32
3	Blue	200-250	50 and 60	2125P6W	2CMA166810R1000	1	1.32
3P+E							
4	Grey		AC	3125P1W	2CMA166824R1000	1	1.43
4	Yellow	100-130	50 and 60	3125P4W	2CMA166814R1000	1	1.43
4	Black	600-690	50 and 60	3125P5W	2CMA166815R1000	1	1.43
4	Red	380-415	50 and 60	3125P6W *	2CMA166816R1000	1	1.43
4	Black	480-500	50 and 60	3125P7W	2CMA166818R1000	1	1.43
4	Blue	200-250	50 and 60	3125P9W	2CMA166820R1000	1	1.43
4	Red	440-460	60	3125P11W	2CMA166822R1000	1	1.43
3P+N+E							
5	Grey		AC	4125P1W	2CMA166836R1000	1	1.54
5	Yellow	100-130	50 and 60	4125P4W	2CMA166826R1000	1	1.54
5	Red	346-415	50 and 60	4125P6W *	2CMA166828R1000	1	1.54
5	Black	480-500	50 and 60	4125P7W	2CMA166830R1000	1	1.54
5	Blue	208-250	50 and 60	4125P9W	2CMA166832R1000	1	1.54
5	Red	440-460	60	4125P11W	2CMA166834R1000	1	1.54

*1) Indicates standard product.

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- Dimensions.....page 81

Connectors



16 A, IP44 Splashproof

Enclosure in thermoplastic. Cable entry with compression gland.

Cable area 1 - 2.5 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack qty	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	216-C4 *	2CMA193520R1000	10	0.16
3	Blue	200-250	50 and 60	216-C6 *	2CMA193521R1000	10	0.16
3P+E							
4	Yellow	100-130	50 and 60	316-C4 *	2CMA193522R1000	10	0.21
4	Red	380-415	50 and 60	316-C6 *	2CMA193523R1000	10	0.21
4	Black	480-500	50 and 60	316-C7 *	2CMA193524R1000	10	0.21
4	Blue	200-250	50 and 60	316-C9 *	2CMA193525R1000	10	0.21
3P+N+E							
5	Red	346-415	50 and 60	416-C6 *	2CMA193526R1000	10	0.23



32 A, IP44 Splashproof

Enclosure in thermoplastic. Cable entry with compression gland.

Cable area 2.5 - 6 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack qty	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	232-C4	2CMA193527R1000	10	0.26
3	Blue	200-250	50 and 60	232-C6 *	2CMA193528R1000	10	0.26
3P+E							
4	Black	600-690	50 and 60	332-C5	2CMA193533R1000	10	0.27
4	Red	380-415	50 and 60	332-C6 *	2CMA193529R1000	10	0.27
4	Black	480-500	50 and 60	332-C7 *	2CMA193534R1000	10	0.27
4	Blue	200-250	50 and 60	332-C9 *	2CMA193530R1000	10	0.27
3P+N+E							
5	Red	346-415	50 and 60	432-C6 *	2CMA193531R1000	10	0.30



63 A, IP 44 Splashproof

Enclosure in thermoplastic polyester (PBT). Cable entry with membrane.

Cable area 4 - 16 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	263C4	2CMA166838R1000	1	0.80
3	Blue	200-250	50 and 60	263C6	2CMA166840R1000	1	0.80
3P+E							
4	Black	600-690	50 and 60	363C5	2CMA166848R1000	1	0.83
4	Red	380-415	50 and 60	363C6 *	2CMA166850R1000	1	0.83
4	Black	480-500	50 and 60	363C7 *	2CMA166852R1000	1	0.83
4	Blue	200-250	50 and 60	363C9	2CMA166854R1000	1	0.83
3P+N+E							
5	Red	346-415	50 and 60	463C6 *	2CMA166862R1000	1	0.88

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*) Indicates standard product.



16 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry with compression gland.
Cable area 1 - 2.5 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	216C1W	2CMA166544R1000	1	0.22
3	Grey	>50-250	DC	216C3W	2CMA166534R1000	1	0.22
3	Yellow	100-130	50 and 60	216C4W	2CMA166536R1000	1	0.22
3	Blue	200-250	50 and 60	216C6W *	2CMA166538R1000	1	0.22
3	Red	380-415	50 and 60	216C9W	2CMA166540R1000	1	0.22
3	Grey	transf	50 and 60	216C12W	2CMA166542R1000	1	0.22

3P+E

4	Grey		AC	316C1W	2CMA166564R1000	1	0.31
4	Green	>50	>300-500	316C2W	2CMA166546R1000	1	0.31
4	Grey	380/440	50/60	316C3W	2CMA166548R1000	1	0.31
4	Yellow	100-130	50 and 60	316C4W	2CMA166550R1000	1	0.31
4	Black	600-690	50 and 60	316C5W	2CMA166552R1000	1	0.31
4	Red	380-415	50 and 60	316C6W *	2CMA166554R1000	1	0.31
4	Black	480-500	50 and 60	316C7W	2CMA166556R1000	1	0.31
4	Blue	200-250	50 and 60	316C9W	2CMA166558R1000	1	0.31
4	Green	>50	100-300	316C10W	2CMA166560R1000	1	0.31
4	Red	440-460	60	316C11W	2CMA166562R1000	1	0.31

3P+N+E

5	Grey		AC	416C1W	2CMA166580R1000	1	0.32
5	Green	>50	>300-500	416C2W	2CMA166566R1000	1	0.32
5	Grey	380/440	50/60	416C3W	2CMA166568R1000	1	0.32
5	Yellow	100-130	50 and 60	416C4W	2CMA166570R1000	1	0.32
5	Red	346-415	50 and 60	416C6W *	2CMA166572R1000	1	0.32
5	Black	480-500	50 and 60	416C7W	2CMA166574R1000	1	0.32
5	Blue	208-250	50 and 60	416C9W	2CMA166576R1000	1	0.32
5	Red	440-460	60	416C11W	2CMA166578R1000	1	0.32



32 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry with compression gland.
Cable area 2.5 - 6 mm²



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	232C1W	2CMA166590R1000	1	0.35
3	Yellow	100-130	50 and 60	232C4W	2CMA166582R1000	1	0.35
3	Blue	200-250	50 and 60	232C6W *	2CMA166584R1000	1	0.35
3	Red	380-415	50 and 60	232C9W	2CMA166586R1000	1	0.35
3	Grey	transf	50 and 60	232C12W	2CMA166588R1000	1	0.35

3P+E

4	Grey		AC	332C1W	2CMA166592R1000	1	0.38
4	Green	>50	>300-500	332C2W	2CMA166596R1000	1	0.38
4	Grey	380/440	50/60	332C3W	2CMA166598R1000	1	0.38
4	Yellow	100-130	50 and 60	332C4W	2CMA166600R1000	1	0.38
4	Black	600-690	50 and 60	332C5W	2CMA166602R1000	1	0.38
4	Red	380-415	50 and 60	332C6W *	2CMA166604R1000	1	0.38
4	Black	480-500	50 and 60	332C7W	2CMA166606R1000	1	0.38
4	Blue	200-250	50 and 60	332C9W	2CMA166608R1000	1	0.38
4	Green	>50	100-300	332C10W	2CMA166610R1000	1	0.38
4	Red	440-460	60	332C11W	2CMA166594R1000	1	0.38

3P+N+E

5	Grey		AC	432C1W	2CMA166526R1000	1	0.41
5	Green	>50	>300-500	432C2W	2CMA166612R1000	1	0.41
5	Grey	380/440	50/60	432C3W	2CMA166614R1000	1	0.41
5	Yellow	100-130	50 and 60	432C4W	2CMA166616R1000	1	0.41
5	Red	346-415	50 and 60	432C6W *	2CMA166618R1000	1	0.41
5	Black	480-500	50 and 60	432C7W	2CMA166620R1000	1	0.41
5	Blue	208-250	50 and 60	432C9W	2CMA166622R1000	1	0.41
5	Red	440-460	60	432C11W	2CMA166624R1000	1	0.41

*) Indicates standard product.

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Connectors



63 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry with compression gland, internal and external cable clamp. Cable area 4 - 16 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	263C1W	2CMA166878R1000	1	0.80
3	Yellow	100-130	50 and 60	263C4W	2CMA166872R1000	1	0.80
3	Blue	200-250	50 and 60	263C6W	2CMA166874R1000	1	0.80
3	Red	380-415	50 and 60	263C9W	2CMA166876R1000	1	0.80

3P+E

4	Grey		AC	363C1W	2CMA166902R1000	1	0.83
4	Yellow	100-130	50 and 60	363C4W	2CMA166890R1000	1	0.83
4	Black	600-690	50 and 60	363C5W	2CMA166892R1000	1	0.83
4	Red	380-415	50 and 60	363C6W *	2CMA166894R1000	1	0.83
4	Black	480-500	50 and 60	363C7W	2CMA166896R1000	1	0.83
4	Blue	200-250	50 and 60	363C9W	2CMA166898R1000	1	0.83
4	Red	440-460	60	363C11W	2CMA166900R1000	1	0.83

3P+N+E

5	Grey		AC	463C1W	2CMA166914R1000	1	0.88
5	Yellow	100-130	50 and 60	463C4W	2CMA166904R1000	1	0.88
5	Red	346-415	50 and 60	463C6W *	2CMA166906R1000	1	0.88
5	Black	480-500	50 and 60	463C7W	2CMA166908R1000	1	0.88
5	Blue	208-250	50 and 60	463C9W	2CMA166910R1000	1	0.88
5	Red	440-460	60	463C11W	2CMA166912R1000	1	0.88



125 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry with compression gland, internal and external cable clamp. Cable area 16 - 50 mm²



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	2125C1W	2CMA166920R1000	1	1.37
3	Yellow	100-130	50 and 60	2125C4W	2CMA166916R1000	1	1.37
3	Blue	200-250	50 and 60	2125C6W	2CMA166918R1000	1	1.37

3P+E

4	Grey		AC	3125C1W	2CMA166932R1000	1	1.41
4	Yellow	100-130	50 and 60	3125C4W	2CMA166922R1000	1	1.41
4	Black	600-690	50 and 60	3125C5W	2CMA166923R1000	1	1.41
4	Red	380-415	50 and 60	3125C6W *	2CMA166924R1000	1	1.41
4	Red	380-415	50 and 60	3125C6W LP**	2CMA169211R1000	1	1.41
4	Black	480-500	50 and 60	3125C7W	2CMA166926R1000	1	1.41
4	Blue	200-250	50 and 60	3125C9W *	2CMA166928R1000	1	1.41
4	Red	440-460	60	3125C11W	2CMA166930R1000	1	1.41

3P+N+E

5	Grey		AC	4125C1W	2CMA166944R1000	1	1.53
5	Yellow	100-130	50 and 60	4125C4W	2CMA166934R1000	1	1.53
5	Red	346-415	50 and 60	4125C6W *	2CMA166936R1000	1	1.53
5	Red	346-415	50 and 60	4125C6W LP**	2CMA169212R1000	1	1.53
5	Black	480-500	50 and 60	4125C7W	2CMA166938R1000	1	1.53
5	Blue	208-250	50 and 60	4125C9W	2CMA166940R1000	1	1.53
5	Red	440-460	60	4125C11W	2CMA166942R1000	1	1.53

*) Indicates standard product.

**) Long phase sleeves, pilot sleeve.

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- Technical data..... page 80
- Dimensions..... page 81

Switched interlocked socket outlets

Heavy duty



16 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry with knock-outs Ø 25 + 32 mm on top and drill marks on bottom. Cable area 1.5 - 4 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	216MVS1WH	2CMA163255R1000	1	1.75
3	Yellow	100-130	50 and 60	216MVS4WH	2CMA163256R1000	1	1.75
3	Blue	200-250	50 and 60	216MVS6WH	2CMA163257R1000	1	1.75
3	Red	380-415	50 and 60	216MVS9WH	2CMA163258R1000	1	1.75
3	Grey	transf	50 and 60	216MVS12WH	2CMA163259R1000	1	1.75
3P+E							
4	Grey		AC	316MVS1WH	2CMA163261R1000	1	1.79
4	Yellow	100-130	50 and 60	316MVS4WH	2CMA163262R1000	1	1.79
4	Black	600-690	50 and 60	316MVS5WH	2CMA163263R1000	1	1.79
4	Red	380-415	50 and 60	316MVS6WH	2CMA163264R1000	1	1.79
4	Black	480-500	50 and 60	316MVS7WH	2CMA163265R1000	1	1.79
4	Blue	200-250	50 and 60	316MVS9WH	2CMA163266R1000	1	1.79
4	Green	>50	100-300	316MVS10WH	2CMA163267R1000	1	1.79
4	Red	440-460	60	316MVS11WH	2CMA163268R1000	1	1.79
3P+N+E							
5	Grey		AC	416MVS1WH	2CMA163270R1000	1	1.83
5	Green	>50	>300-500	416MVS2WH	2CMA163271R1000	1	1.83
5	Red	346-415	50 and 60	416MVS6WH	2CMA163272R1000	1	1.83
5	Blue	208-250	50 and 60	416MVS9WH	2CMA163273R1000	1	1.83



32 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry with knock-outs Ø 25 + 32 mm on top and drill marks on bottom. Cable area 2.5 - 10 mm²



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	232MVS1WH	2CMA163275R1000	1	1.87
3	Blue	200-250	50 and 60	232MVS6WH	2CMA163276R1000	1	1.87
3P+E							
4	Grey		AC	332MVS1WH	2CMA163277R1000	1	1.91
4	Black	600-690	50 and 60	332MVS5WH	2CMA163278R1000	1	1.91
4	Red	380-415	50 and 60	332MVS6WH	2CMA163279R1000	1	1.91
4	Black	480-500	50 and 60	332MVS7WH	2CMA163280R1000	1	1.91
4	Blue	200-250	50 and 60	332MVS9WH	2CMA163281R1000	1	1.91
3P+N+E							
5	Grey		AC	432MVS1WH	2CMA163284R1000	1	1.95
5	Red	346-415	50 and 60	432MVS6WH	2CMA163285R1000	1	1.95
5	Black	480-500	50 and 60	432MVS7WH	2CMA163286R1000	1	1.95

- The switch handle is padlockable (5-8 mm shackle).
- The switch insert can be equipped with an auxiliary contact (see page 73).

- Accessories page 68
- Technical data page 80
- Dimensions page 81

Switched interlocked socket outlets

Heavy duty



63 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry with knock-outs Ø 40 + 50 mm on top and drill marks on bottom. Cable area 6 - 25 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	263MVS1WH	2CMA162831R1000	1	3.50
3	Yellow	100-130	50 and 60	263MVS4WH	2CMA162827R1000	1	3.50
3	Blue	200-250	50 and 60	263MVS6WH	2CMA162828R1000	1	3.50
3	Red	380-415	50 and 60	263MVS9WH	2CMA162829R1000	1	3.50
3P+E							
4	Grey		AC	363MVS1WH	2CMA162841R1000	1	3.50
4	Yellow	100-130	50 and 60	363MVS4WH	2CMA162834R1000	1	3.50
4	Black	600-690	50 and 60	363MVS5WH	2CMA162835R1000	1	3.50
4	Red	380-415	50 and 60	363MVS6WH	2CMA162836R1000	1	3.50
4	Black	480-500	50 and 60	363MVS7WH	2CMA162837R1000	1	3.50
4	Blue	200-250	50 and 60	363MVS9WH	2CMA162838R1000	1	3.50
4	Red	440-460	60	363MVS11WH	2CMA162840R1000	1	3.50
3P+N+E							
5	Grey		AC	463MVS1WH	2CMA162849R1000	1	3.60
5	Yellow	100-130	50 and 60	463MVS4WH	2CMA162844R1000	1	3.60
5	Red	346-415	50 and 60	463MVS6WH	2CMA162845R1000	1	3.60
5	Black	480-500	50 and 60	463MVS7WH	2CMA162846R1000	1	3.60
5	Blue	208-250	50 and 60	463MVS9WH	2CMA162847R1000	1	3.60
5	Red	440-460	60	463MVS11WH	2CMA162848R1000	1	3.60



125 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry with knock-outs Ø 40 + 50 mm on top and drill marks on bottom. Cable area 16 - 70 mm²



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	2125MVS1WH **	2CMA162740R1000	1	4.40
3	Yellow	100-130	50 and 60	2125MVS4WH **	2CMA162738R1000	1	4.40
3	Blue	200-250	50 and 60	2125MVS6WH **	2CMA162739R1000	1	4.40
3P+E							
4	Grey		AC	3125MVS1WH **	2CMA162746R1000	1	4.40
4	Yellow	100-130	50 and 60	3125MVS4WH **	2CMA162741R1000	1	4.40
4	Red	380-415	50 and 60	3125MVS6WH **	2CMA162742R1000	1	4.40
4	Black	480-500	50 and 60	3125MVS7WH **	2CMA162743R1000	1	4.40
4	Blue	200-250	50 and 60	3125MVS9WH **	2CMA162744R1000	1	4.40
4	Red	440-460	60	3125MVS11WH **	2CMA162745R1000	1	4.40
3P+N+E							
5	Grey		AC	4125MVS1WH **	2CMA162796R1000	1	4.50
5	Yellow	100-130	50 and 60	4125MVS4WH **	2CMA162791R1000	1	4.50
5	Red	346-415	50 and 60	4125MVS6WH **	2CMA162792R1000	1	4.50
5	Black	480-500	50 and 60	4125MVS7WH **	2CMA162793R1000	1	4.50
5	Blue	208-250	50 and 60	4125MVS9WH **	2CMA162794R1000	1	4.50
5	Red	440-460	60	4125MVS11WH **	2CMA162795R1000	1	4.50

*) Indicates standard product.

**) Long phase sleeves, pilot sleeve.

- The switch handle is padlockable (5-8 mm shackle).

- The switch insert can be equipped with an auxiliary contact (see page 73).

- Accessories page 68
- Technical data page 80
- Dimensions page 81

Switched interlocked socket outlets

Heavy duty



63 A, IP 44

Enclosure in thermoplastic polyester (PBT). Cable entry with knock-outs
 Ø 40 + 50 mm on top and drill marks on bottom. Cable area 6 - 25 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	263MVS4	2CMA162327R1000	1	3.50
3	Blue	200-250	50 and 60	263MVS6	2CMA162328R1000	1	3.50
3P+E							
4	Black	600-690	50 and 60	363MVS5	2CMA162335R1000	1	3.50
4	Red	380-415	50 and 60	363MVS6	2CMA162336R1000	1	3.50
4	Black	480-500	50 and 60	363MVS7	2CMA162337R1000	1	3.50
4	Blue	200-250	50 and 60	363MVS9	2CMA162338R1000	1	3.50
3P+N+E							
5	Red	346-415	50 and 60	463MVS6 *	2CMA162345R1000	1	3.60

*) Indicates standard product.

- The switch handle is padlockable (5-8 mm shackle).

- The switch insert can be equipped with an auxiliary contact (see page 73).

- Accessories page 68
- Technical data page 80
- Dimensions page 81

Switched interlocked socket outlets

Metal enclosed



16 A, IP 44 Splashproof

Enclosure in aluminum. Cable entry 2 x M25 + 2 x M32.

Cable area 1.5 - 4 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
3P+E							
4	Grey		AC	316MM1	2CMA167980R1000	1	1.30
4	Yellow	100-130	50 and 60	316MM4	2CMA167973R1000	1	1.30
4	Black	600-690	50 and 60	316MM5	2CMA167974R1000	1	1.30
4	Red	380-415	50 and 60	316MM6 *	2CMA167975R1000	1	1.30
4	Black	480-500	50 and 60	316MM7 *	2CMA167976R1000	1	1.30
4	Blue	200-250	50 and 60	316MM9	2CMA167977R1000	1	1.30
4	Green	>50	100-300	316MM10	2CMA167978R1000	1	1.30
4	Red	440-460	60	316MM11	2CMA167979R1000	1	1.30
3P+N+E							
5	Grey		AC	416MM1	2CMA167988R1000	1	1.32
5	Green	>50	>300-500	416MM2	2CMA167981R1000	1	1.32
5	Red	346-415	50 and 60	416MM6 *	2CMA167984R1000	1	1.32
5	Blue	208-250	50 and 60	416MM9	2CMA167986R1000	1	1.32
5	Red	440-460	60	416MM11	2CMA167987R1000	1	1.32



32 A, IP 44 Splashproof

Enclosure in aluminum. Cable entry 2 x M25 + 2 x M32.

Cable area 2.5 - 10 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
3P+E							
4	Grey		AC	332MM1	2CMA167998R1000	1	1.42
4	Grey	380/440	50/60	332MM3	2CMA167990R1000	1	1.42
4	Yellow	100-130	50 and 60	332MM4	2CMA167991R1000	1	1.42
4	Black	600-690	50 and 60	332MM5	2CMA167992R1000	1	1.42
4	Red	380-415	50 and 60	332MM6 *	2CMA167993R1000	1	1.42
4	Black	480-500	50 and 60	332MM7	2CMA167994R1000	1	1.42
4	Blue	200-250	50 and 60	332MM9	2CMA167995R1000	1	1.42
4	Green	>50	100-300	332MM10	2CMA167996R1000	1	1.42
4	Red	440-460	60	332MM11	2CMA167997R1000	1	1.42
3P+N+E							
5	Grey		AC	432MM1	2CMA168006R1000	1	1.48
5	Red	346-415	50 and 60	432MM6 *	2CMA168002R1000	1	1.48
5	Black	480-500	50 and 60	432MM7	2CMA168003R1000	1	1.48
5	Blue	208-250	50 and 60	432MM9	2CMA168004R1000	1	1.48

*) Indicates standard product.

- The switch insert can be equipped with an auxiliary contact (see page 73).

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- Technical data page 80
- Dimensions page 81

Switched interlocked socket outlets

Metal enclosed



63 A, IP 44 Splashproof

Enclosure in aluminum. Cable entry 4 x M40. Cable area 6 - 25 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	263MM1	2CMA168033R1000	1	2.20
3	Yellow	100-130	50 and 60	263MM4	2CMA168030R1000	1	2.20
3	Blue	200-250	50 and 60	263MM6	2CMA168031R1000	1	2.20
3	Red	380-415	50 and 60	263MM9	2CMA168032R1000	1	2.20
3P+E							
4	Grey		AC	363MM1	2CMA168040R1000	1	2.22
4	Yellow	100-130	50 and 60	363MM4	2CMA168034R1000	1	2.22
4	Black	600-690	50 and 60	363MM5	2CMA168035R1000	1	2.22
4	Red	380-415	50 and 60	363MM6 *	2CMA168036R1000	1	2.22
4	Black	480-500	50 and 60	363MM7 *	2CMA168037R1000	1	2.22
4	Blue	200-250	50 and 60	363MM9	2CMA168038R1000	1	2.22
4	Red	440-460	60	363MM11	2CMA168039R1000	1	2.22
3P+N+E							
5	Grey		AC	463MM1	2CMA168046R1000	1	2.35
5	Red	346-415	50 and 60	463MM6 *	2CMA168042R1000	1	2.35
5	Black	480-500	50 and 60	463MM7	2CMA168043R1000	1	2.35
5	Blue	208-250	50 and 60	463MM9	2CMA168044R1000	1	2.35



125 A, IP 44 Splashproof

Enclosure in aluminum. Cable entry 2 x M50. Cable area 16 - 70 mm²



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Blue	200-250	50 and 60	2125MM6 **	2CMA168047R1000	1	7.70
3P+E							
4	Grey		AC	3125MM1 **	2CMA168052R1000	1	7.90
4	Red	380-415	50 and 60	3125MM6 ***	2CMA168048R1000	1	7.90
4	Black	480-500	50 and 60	3125MM7 **	2CMA168049R1000	1	7.90
4	Blue	200-250	50 and 60	3125MM9 **	2CMA168050R1000	1	7.90
4	Red	440-460	60	3125MM11 **	2CMA168051R1000	1	7.90
3P+N+E							
5	Grey		AC	4125MM1 **	2CMA168056R1000	1	8.10
5	Red	346-415	50 and 60	4125MM6 ***	2CMA168053R1000	1	8.10
5	Black	480-500	50 and 60	4125MM7 **	2CMA168054R1000	1	8.10
5	Red	440-460	60	4125MM11 **	2CMA168055R1000	1	8.10

*) Indicates standard product.

**) Long phase sleeves, pilot sleeve.

- The switch handle is padlockable (5-8 mm shackle).

- The switch insert can be equipped with an auxiliary contact (see page 73).

- Accessories page 68
- Technical data page 80
- Dimensions page 81

Switched interlocked socket outlets

Horizontal



16 A, IP 44 Splashproof

Enclosure in thermoplastic polyester (PBT).

Cable entry with knock-outs Ø 25 mm/M25. Cable area 1.5 - 4 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	216MHS4	2CMA167622R1000	1	0.55
3	Blue	200-250	50 and 60	216MHS6 *	2CMA167623R1000	1	0.55
3P+E							
4	Yellow	100-130	50 and 60	316MHS4	2CMA167629R1000	1	0.58
4	Black	600-690	50 and 60	316MHS5	2CMA167630R1000	1	0.58
4	Red	380-415	50 and 60	316MHS6 *	2CMA167631R1000	1	0.58
4	Black	480-500	50 and 60	316MHS7	2CMA167632R1000	1	0.58
4	Blue	200-250	50 and 60	316MHS9	2CMA167633R1000	1	0.58
4	Red	440-460	60	316MHS11	2CMA167635R1000	1	0.58
3P+N+E							
5	Red	346-415	50 and 60	416MHS6 *	2CMA167640R1000	1	0.61



32 A, IP 44 Splashproof

Enclosure in thermoplastic polyester (PBT).

Cable entry with knock-outs Ø 25 mm/M25. Cable area 2.5 - 10 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	232MHS4	2CMA167668R1000	1	0.60
3	Blue	200-250	50 and 60	232MHS6 *	2CMA167669R1000	1	0.60
3P+E							
4	Black	600-690	50 and 60	332MHS5	2CMA167676R1000	1	0.63
4	Red	380-415	50 and 60	332MHS6 *	2CMA167677R1000	1	0.63
4	Black	480-500	50 and 60	332MHS7	2CMA167678R1000	1	0.63
4	Blue	200-250	50 and 60	332MHS9	2CMA167679R1000	1	0.63
3P+N+E							
5	Red	346-415	50 and 60	432MHS6 *	2CMA167686R1000	1	0.66



63 A, IP 44 Splashproof

Enclosure in thermoplastic polyester (PBT).

Cable entry with knock-outs x Ø 32 mm. Cable area 6 - 25 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	263MHS4	2CMA167714R1000	1	2.00
3	Blue	200-250	50 and 60	263MHS6	2CMA167715R1000	1	2.00
3P+E							
4	Black	600-690	50 and 60	363MHS5	2CMA167719R1000	1	2.00
4	Red	380-415	50 and 60	363MHS6 *	2CMA167721R1000	1	2.00
4	Black	480-500	50 and 60	363MHS7	2CMA167722R1000	1	2.00
4	Blue	200-250	50 and 60	363MHS9	2CMA167723R1000	1	2.00
3P+N+E							
5	Red	346-415	50 and 60	463MHS6 *	2CMA167727R1000	1	2.10

*) Indicates standard product.

- The switch insert can be equipped with an auxiliary contact (see page 73).

- The switch handle is padlockable (5-8 mm shackle).

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Switched interlocked socket outlets

Horizontal



16 A, IP 67 Watertight Enclosure in thermoplastic polyester (PBT),



Cable entry with knock-outs Ø 25 mm up/M25 down. Cable area 1.5 - 4 mm²

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	216MHS1W	2CMA167804R1000	1	0.55
3	Yellow	100-130	50 and 60	216MHS4W	2CMA167800R1000	1	0.55
3	Blue	200-250	50 and 60	216MHS6W *	2CMA167801R1000	1	0.55
3	Red	380-415	50 and 60	216MHS9W	2CMA167802R1000	1	0.55
3	Grey	transf	50 and 60	216MHS12W	2CMA167803R1000	1	0.55
3P+E							
4	Grey		AC	316MHS1W	2CMA167814R1000	1	0.58
4	Green	>50	>300-500	316MHS2W	2CMA167805R1000	1	0.58
4	Grey	380/440	50/60	316MHS3W	2CMA167806R1000	1	0.58
4	Yellow	100-130	50 and 60	316MHS4W	2CMA167807R1000	1	0.58
4	Black	600-690	50 and 60	316MHS5W	2CMA167808R1000	1	0.58
4	Red	380-415	50 and 60	316MHS6W *	2CMA167809R1000	1	0.58
4	Black	480-500	50 and 60	316MHS7W	2CMA167810R1000	1	0.58
4	Blue	200-250	50 and 60	316MHS9W	2CMA167811R1000	1	0.58
4	Green	>50	100-300	316MHS10W	2CMA167812R1000	1	0.58
4	Red	440-460	60	316MHS11W	2CMA167813R1000	1	0.58
3P+N+E							
5	Grey		AC	416MHS1W	2CMA167822R1000	1	0.61
5	Green	>50	>300-500	416MHS2W	2CMA167815R1000	1	0.61
5	Grey	380/440	50/60	416MHS3W	2CMA167816R1000	1	0.61
5	Yellow	100-130	50 and 60	416MHS4W	2CMA167817R1000	1	0.61
5	Red	346-415	50 and 60	416MHS6W *	2CMA167818R1000	1	0.61
5	Black	480-500	50 and 60	416MHS7W	2CMA167819R1000	1	0.61
5	Blue	208-250	50 and 60	416MHS9W	2CMA167820R1000	1	0.61
5	Red	440-460	60	416MHS11W	2CMA167821R1000	1	0.61



32 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT),



Cable entry with knock-outs Ø 25 mm up/M25 down. Cable area 2.5 - 10 mm²

Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	232MHS1W	2CMA167851R1000	1	0.60
3	Yellow	100-130	50 and 60	232MHS4W	2CMA167847R1000	1	0.60
3	Blue	200-250	50 and 60	232MHS6W	2CMA167848R1000	1	0.60
3	Red	380-415	50 and 60	232MHS9W	2CMA167849R1000	1	0.60
3	Grey	transf	50 and 60	232MHS12W	2CMA167850R1000	1	0.60
3P+E							
4	Grey		AC	332MHS1W	2CMA167861R1000	1	0.63
4	Green	>50	>300-500	332MHS2W	2CMA167852R1000	1	0.63
4	Grey	380/440	50/60	332MHS3W	2CMA167853R1000	1	0.63
4	Yellow	100-130	50 and 60	332MHS4W	2CMA167854R1000	1	0.63
4	Black	600-690	50 and 60	332MHS5W	2CMA167855R1000	1	0.63
4	Red	380-415	50 and 60	332MHS6W	2CMA167856R1000	1	0.63
4	Black	480-500	50 and 60	332MHS7W	2CMA167857R1000	1	0.63
4	Blue	200-250	50 and 60	332MHS9W	2CMA167858R1000	1	0.63
4	Green	>50	100-300	332MHS10W	2CMA167859R1000	1	0.63
4	Red	440-460	60	332MHS11W	2CMA167860R1000	1	0.63
3P+N+E							
5	Grey		AC	432MHS1W	2CMA167869R1000	1	0.66
5	Green	>50	>300-500	432MHS2W	2CMA167862R1000	1	0.66
5	Grey	380/440	50/60	432MHS3W	2CMA167863R1000	1	0.66
5	Yellow	100-130	50 and 60	432MHS4W	2CMA167864R1000	1	0.66
5	Red	346-415	50 and 60	432MHS6W *	2CMA167865R1000	1	0.66
5	Black	480-500	50 and 60	432MHS7W	2CMA167866R1000	1	0.66
5	Blue	208-250	50 and 60	432MHS9W	2CMA167867R1000	1	0.66
5	Red	440-460	60	432MHS11W	2CMA167868R1000	1	0.66

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*) Indicates standard product.

- The switch insert can be equipped with an auxiliary contact (see page 73).

Switched interlocked socket outlets

Horizontal



63 A, IP 67 Watertight
Enclosure in thermoplastic polyester (PBT),



Cable entry with knock-outs 2 x Ø 32 mm. Cable area 6 - 25 mm²

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	263MHS1W	2CMA167896R1000	1	2.00
3	Yellow	100-130	50 and 60	263MHS4W	2CMA167893R1000	1	2.00
3	Blue	200-250	50 and 60	263MHS6W	2CMA167894R1000	1	2.00
3	Red	380-415	50 and 60	263MHS9W	2CMA167895R1000	1	2.00
3P+E							
4	Grey		AC	363MHS1W	2CMA167903R1000	1	2.00
4	Yellow	100-130	50 and 60	363MHS4W	2CMA167897R1000	1	2.00
4	Black	600-690	50 and 60	363MHS5W	2CMA167898R1000	1	2.00
4	Red	380-415	50 and 60	363MHS6W	2CMA167899R1000	1	2.00
4	Black	480-500	50 and 60	363MHS7W	2CMA167900R1000	1	2.00
4	Blue	200-250	50 and 60	363MHS9W	2CMA167901R1000	1	2.00
4	Red	440-460	60	363MHS11W	2CMA167902R1000	1	2.00
3P+N+E							
5	Grey		AC	463MHS1W	2CMA167909R1000	1	2.10
5	Yellow	100-130	50 and 60	463MHS4W	2CMA167904R1000	1	2.10
5	Red	346-415	50 and 60	463MHS6W *	2CMA167905R1000	1	2.10
5	Black	480-500	50 and 60	463MHS7W	2CMA167906R1000	1	2.10
5	Blue	208-250	50 and 60	463MHS9W	2CMA167907R1000	1	2.10
5	Red	440-460	60	463MHS11W	2CMA167908R1000	1	2.10

*) Indicates standard product.

- The switch insert can be equipped with an auxiliary contact (see page 73).

- The switch handle is padlockable. (5-8 mm shackle).

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Switched interlocked socket outlets

Vertical



16 A, IP 44 Splashproof

Enclosure in thermoplastic polyester (PBT). Cable entry with knock-outs Ø 25 mm.
Cable area 1.5 - 4 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	216MVS4	2CMA167645R1000	1	0.63
3	Blue	200-250	50 and 60	216MVS6 *	2CMA167646R1000	1	0.63
3P+E							
4	Yellow	100-130	50 and 60	316MVS4	2CMA167652R1000	1	0.67
4	Black	600-690	50 and 60	316MVS5	2CMA167653R1000	1	0.67
4	Red	380-415	50 and 60	316MVS6 *	2CMA167654R1000	1	0.67
4	Black	480-500	50 and 60	316MVS7	2CMA167655R1000	1	0.67
4	Blue	200-250	50 and 60	316MVS9	2CMA167656R1000	1	0.67
4	Red	440-460	60	316MVS11	2CMA167658R1000	1	0.67
3P+N+E							
5	Red	346-415	50 and 60	416MVS6 *	2CMA167663R1000	1	0.70



32 A, IP 44 Splashproof

Enclosure in thermoplastic polyester (PBT). Cable entry with knock-outs Ø 25 mm.
Cable area 2.5 - 10 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	232MVS4	2CMA167691R1000	1	0.69
3	Blue	200-250	50 and 60	232MVS6	2CMA167692R1000	1	0.69
3P+E							
4	Black	600-690	50 and 60	332MVS5	2CMA167699R1000	1	0.72
4	Red	380-415	50 and 60	332MVS6	2CMA167700R1000	1	0.72
4	Black	480-500	50 and 60	332MVS7	2CMA167701R1000	1	0.72
4	Blue	200-250	50 and 60	332MVS9	2CMA167702R1000	1	0.72
3P+N+E							
5	Red	346-415	50 and 60	432MVS6 *	2CMA167709R1000	1	0.76

*) Indicates standard product.

- The switch insert can be equipped with an auxiliary contact (see page 73).
- The switch handle is padlockable. (5-8 mm shackle).

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Switched interlocked socket outlets

Vertical



16 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry with knock-outs Ø 25 mm.

Cable area 1.5 - 4 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	216MVS1W	2CMA167827R1000	1	0.63
3	Yellow	100-130	50 and 60	216MVS4W	2CMA167823R1000	1	0.63
3	Blue	200-250	50 and 60	216MVS6W *	2CMA167824R1000	1	0.63
3	Red	380-415	50 and 60	216MVS9W	2CMA167825R1000	1	0.63
3	Grey	transf	50 and 60	216MVS12W	2CMA167826R1000	1	0.63
3P+E							
4	Grey		AC	316MVS1W	2CMA167838R1000	1	0.67
4	Green	>50	>300-500	316MVS2W	2CMA167828R1000	1	0.67
4	Grey	380/440	50/60	316MVS3W	2CMA167829R1000	1	0.67
4	Yellow	100-130	50 and 60	316MVS4W	2CMA167830R1000	1	0.67
4	Black	600-690	50 and 60	316MVS5W	2CMA167831R1000	1	0.67
4	Red	380-415	50 and 60	316MVS6W *	2CMA167832R1000	1	0.67
4	Black	480-500	50 and 60	316MVS7W	2CMA167833R1000	1	0.67
4	Blue	200-250	50 and 60	316MVS9W	2CMA167834R1000	1	0.67
4	Green	>50	100-300	316MVS10W	2CMA167835R1000	1	0.67
4	Red	440-460	60	316MVS11W	2CMA167836R1000	1	0.67

3P+N+E

5	Grey		AC	416MVS1W	2CMA167846R1000	1	0.70
5	Green	>50	>300-500	416MVS2W	2CMA167839R1000	1	0.70
5	Grey	380/440	50/60	416MVS3W	2CMA167840R1000	1	0.70
5	Yellow	100-130	50 and 60	416MVS4W	2CMA167841R1000	1	0.70
5	Red	346-415	50 and 60	416MVS6W *	2CMA167842R1000	1	0.70
5	Black	480-500	50 and 60	416MVS7W	2CMA167843R1000	1	0.70
5	Blue	208-250	50 and 60	416MVS9W	2CMA167844R1000	1	0.70
5	Red	440-460	60	416MVS11W	2CMA167845R1000	1	0.70

*1) Indicates standard product.

32 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry with knock-outs Ø 25 mm.

Cable area 2.5 - 10 mm²



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	232MVS1W	2CMA167874R1000	1	0.69
3	Yellow	100-130	50 and 60	232MVS4W	2CMA167870R1000	1	0.69
3	Blue	200-250	50 and 60	232MVS6W	2CMA167871R1000	1	0.69
3	Red	380-415	50 and 60	232MVS9W	2CMA167872R1000	1	0.69
3	Grey	transf	50 and 60	232MVS12W	2CMA167873R1000	1	0.69
3P+E							
4	Grey		AC	332MVS1W	2CMA167884R1000	1	0.72
4	Green	>50	>300-500	332MVS2W	2CMA167875R1000	1	0.72
4	Grey	380/440	50/60	332MVS3W	2CMA167876R1000	1	0.72
4	Yellow	100-130	50 and 60	332MVS4W	2CMA167877R1000	1	0.72
4	Black	600-690	50 and 60	332MVS5W	2CMA167878R1000	1	0.72
4	Red	380-415	50 and 60	332MVS6W	2CMA167879R1000	1	0.72
4	Black	480-500	50 and 60	332MVS7W	2CMA167880R1000	1	0.72
4	Blue	200-250	50 and 60	332MVS9W	2CMA167881R1000	1	0.72
4	Green	>50	100-300	332MVS10W	2CMA167882R1000	1	0.72
4	Red	440-460	60	332MVS11W	2CMA167883R1000	1	0.72

3P+N+E

5	Grey		AC	432MVS1W	2CMA167892R1000	1	0.76
5	Green	>50	>300-500	432MVS2W	2CMA167885R1000	1	0.76
5	Grey	380/440	50/60	432MVS3W	2CMA167886R1000	1	0.76
5	Yellow	100-130	50 and 60	432MVS4W	2CMA167887R1000	1	0.76
5	Red	346-415	50 and 60	432MVS6W	2CMA167888R1000	1	0.76
5	Black	480-500	50 and 60	432MVS7W	2CMA167889R1000	1	0.76
5	Blue	208-250	50 and 60	432MVS9W	2CMA167890R1000	1	0.76
5	Red	440-460	60	432MVS11W	2CMA167891R1000	1	0.76

- The switch insert can be equipped with an auxiliary contact (see page 73).

- The switch handle is padlockable. (5-8 mm shackle).



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Switched interlocked socket outlets

With protection



16 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Contains MCB series S201/S203 characteristic C. Cable entry with knock-outs 2x Ø 25 mm. Cable area 1.5 - 10 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	216MPM4W	2CMA167948R1000	1	1.74
3	Blue	200-250	50 and 60	216MPM6W	2CMA167949R1000	1	1.74
3	Red	380-415	50 and 60	216MPM9W	2CMA167950R1000	1	1.74
3	Grey	transf	50 and 60	216MPM12W	2CMA167951R1000	1	1.74
3P+E							
4	Green	>50	>300-500	316MPM2W	2CMA167953R1000	1	1.77
4	Grey	380/440	50/60	316MPM3W	2CMA167954R1000	1	1.77
4	Yellow	100-130	50 and 60	316MPM4W	2CMA167955R1000	1	1.77
4	Black	600-690	50 and 60	316MPM5W	2CMA167956R1000	1	1.77
4	Red	380-415	50 and 60	316MPM6W	2CMA167957R1000	1	1.77
4	Black	480-500	50 and 60	316MPM7W	2CMA167958R1000	1	1.77
4	Blue	200-250	50 and 60	316MPM9W	2CMA167959R1000	1	1.77
4	Green	>50	100-300	316MPM10W	2CMA167960R1000	1	1.77
4	Red	440-460	60	316MPM11W	2CMA167961R1000	1	1.77
3P+N+E							
5	Green	>50	>300-500	416MPM2W	2CMA167963R1000	1	1.79
5	Grey	380/440	50/60	416MPM3W	2CMA167964R1000	1	1.79
5	Yellow	100-130	50 and 60	416MPM4W	2CMA167965R1000	1	1.79
5	Red	346-415	50 and 60	416MPM6W	2CMA167966R1000	1	1.79
5	Black	480-500	50 and 60	416MPM7W	2CMA167967R1000	1	1.79
5	Blue	208-250	50 and 60	416MPM9W	2CMA167968R1000	1	1.79
5	Red	440-460	60	416MPM11W	2CMA167969R1000	1	1.79



32 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Contains MCB series S201/S203 characteristic C. Cable entry with knock-outs 2x Ø 25 mm. Cable area 2.5 - 10 mm²



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	232MPM4W	2CMA168007R1000	1	1.80
3	Blue	200-250	50 and 60	232MPM6W	2CMA168008R1000	1	1.80
3	Red	380-415	50 and 60	232MPM9W	2CMA168009R1000	1	1.80
3	Grey	transf	50 and 60	232MPM12W	2CMA168010R1000	1	1.80
3P+E							
4	Green	>50	>300-500	332MPM2W	2CMA168012R1000	1	1.81
4	Grey	380/440	50/60	332MPM3W	2CMA168013R1000	1	1.81
4	Yellow	100-130	50 and 60	332MPM4W	2CMA168014R1000	1	1.81
4	Black	600-690	50 and 60	332MPM5W	2CMA168015R1000	1	1.81
4	Red	380-415	50 and 60	332MPM6W	2CMA168016R1000	1	1.81
4	Black	480-500	50 and 60	332MPM7W	2CMA168017R1000	1	1.81
4	Blue	200-250	50 and 60	332MPM9W	2CMA168018R1000	1	1.81
4	Green	>50	100-300	332MPM10W	2CMA168019R1000	1	1.81
4	Red	440-460	60	332MPM11W	2CMA168020R1000	1	1.81
3P+N+E							
5	Green	>50	>300-500	432MPM2W	2CMA168022R1000	1	1.83
5	Grey	380/440	50/60	432MPM3W	2CMA168023R1000	1	1.83
5	Yellow	100-130	50 and 60	432MPM4W	2CMA168024R1000	1	1.83
5	Red	346-415	50 and 60	432MPM6W	2CMA168025R1000	1	1.83
5	Black	480-500	50 and 60	432MPM7W	2CMA168026R1000	1	1.83
5	Blue	208-250	50 and 60	432MPM9W	2CMA168027R1000	1	1.83
5	Red	440-460	60	432MPM11W	2CMA168028R1000	1	1.83

- The switch insert can be equipped with an auxiliary contact (see page 73).
- The switch handle is padlockable. (5-8 mm shackle).

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Switched interlocked socket outlets

With protection



16 A, IP 44 Splashproof

Enclosure in thermoplastic polyester (PBT). Contains RCD 25 A / 0.03 A, type A.
Cable entry with knock-outs 2 x Ø 25 mm. Cable area 1.5 - 4 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Blue	200-250	50 and 60	216MPR6	2CMA167756R1000	1	1.71
3P+E							
4	Red	380-415	50 and 60	316MPR6	2CMA167764R1000	1	1.74
4	Blue	200-250	50 and 60	316MPR9	2CMA167766R1000	1	1.74
3P+N+E							
5	Red	346-415	50 and 60	416MPR6	2CMA167772R1000	1	1.76



32 A, IP 44 Splashproof

Enclosure in thermoplastic polyester (PBT). Contains RCD 40 A / 0.03 A, type A.
Cable entry with knock-outs 2 x Ø 25 mm. Cable area 2.5 - 10 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Blue	200-250	50 and 60	232MPR6	2CMA167778R1000	1	1.77
3P+E							
4	Red	380-415	50 and 60	332MPR6	2CMA167786R1000	1	1.78
4	Blue	200-250	50 and 60	332MPR9	2CMA167788R1000	1	1.78
3P+N+E							
5	Red	346-415	50 and 60	432MPR6	2CMA167795R1000	1	1.80

- The switch insert can be equipped with an auxiliary contact (see page 73).
- The switch handle is padlockable. (5-8 mm shackle).

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- Technical data.....page 80
- Dimensions.....page 81

Switched interlocked socket outlets

With protection



16 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Contains RCD 25 A / 0.03 A, type A.
Cable entry with knock-outs 2 x Ø 25 mm. Cable area 1.5 - 4 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	216MPR4W	2CMA168057R1000	1	1.74
3	Blue	200-250	50 and 60	216MPR6W	2CMA168058R1000	1	1.74
3	Grey	transf	50 and 60	216MPR12W	2CMA168060R1000	1	1.74
3P+E							
4	Yellow	100-130	50 and 60	316MPR4W	2CMA168064R1000	1	1.77
4	Red	380-415	50 and 60	316MPR6W	2CMA168066R1000	1	1.77
4	Blue	200-250	50 and 60	316MPR9W	2CMA168068R1000	1	1.77
3P+N+E							
5	Yellow	100-130	50 and 60	416MPR4W	2CMA168074R1000	1	1.79
5	Red	346-415	50 and 60	416MPR6W	2CMA168075R1000	1	1.79
5	Blue	208-250	50 and 60	416MPR9W	2CMA168077R1000	1	1.79



32 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Contains RCD 40 A / 0.03 A, type A.
Cable entry with knock-outs 2 x Ø 25 mm. Cable area 2.5 - 10 mm²



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	232MPR4W	2CMA168080R1000	1	1.80
3	Blue	200-250	50 and 60	232MPR6W	2CMA168081R1000	1	1.80
3	Grey	transf	50 and 60	232MPR12W	2CMA168083R1000	1	1.80
3P+E							
4	Yellow	100-130	50 and 60	332MPR4W	2CMA168087R1000	1	1.81
4	Red	380-415	50 and 60	332MPR6W	2CMA168089R1000	1	1.81
4	Blue	200-250	50 and 60	332MPR9W	2CMA168091R1000	1	1.81
3P+N+E							
5	Yellow	100-130	50 and 60	432MPR4W	2CMA168097R1000	1	1.83
5	Red	346-415	50 and 60	432MPR6W	2CMA168098R1000	1	1.83
5	Blue	208-250	50 and 60	432MPR9W	2CMA168100R1000	1	1.83

- The switch insert can be equipped with an auxiliary contact (see page 73).

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Switched interlocked socket outlets

With protection



16 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry with knock-outs
2 x Ø 25 mm. Cable area 1.5 - 10 mm². Space for 4 moduls.



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	■ Blue	200-250	50 and 60	216MP6WP	2CMA162878R1000	1	0.82
3P+N+E							
5	■ Red	346-415	50 and 60	416MP6WP	2CMA162895R1000	1	0.94

32 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT), Cable entry with knock-outs
2 x Ø 25 mm. Cable area 2.5 - 10 mm². Space for 4 moduls.



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	■ Blue	200-250	50 and 60	232MP6WP	2CMA163172R1000	1	0.85
3P+N+E							
5	■ Red	346-415	50 and 60	432MP6WP	2CMA163193R1000	1	0.97

- The switch handle is padlockable. (5-8 mm shackle),e
- The product is prepared for MCB/RCD (not included)
- The switch insert can be equipped with an auxiliary contact (see page 73).

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- Dimensions.....page 81

Surface socket outlets

Plastic enclosed



16 A, IP 44 Splashproof

Enclosure in thermoplastic. Flexible membrane and metric threaded M20 insert for top cable entry. Rear knock-out cable entry. Cable area 1.5 - 4 mm²

Easy
& Safe

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	216RS4 *	2CMA193097R1000	10	0.22
3	Blue	200-250	50 and 60	216RS6 *	2CMA193098R1000	10	0.22
3P+E							
4	Yellow	100-130	50 and 60	316RS4	2CMA193104R1000	10	0.24
4	Black	600-690	50 and 60	316RS5	2CMA193105R1000	10	0.24
4	Red	380-415	50 and 60	316RS6 *	2CMA193106R1000	10	0.24
4	Black	480-500	50 and 60	316RS7 *	2CMA193107R1000	10	0.24
4	Blue	200-250	50 and 60	316RS9	2CMA193108R1000	10	0.24
4	Red	440-460	60	316RS11	2CMA193110R1000	10	0.24
3P+N+E							
5	Red	346-415	50 and 60	416RS6 *	2CMA193115R1000	10	0.26



32 A, IP 44 Splashproof

Enclosure in thermoplastic. Flexible membrane and metric threaded M25 insert for top cable entry. Rear knock-out cable entry. Cable area 2.5 - 10 mm²

Easy
& Safe

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	232RS4	2CMA193121R1000	10	0.30
3	Blue	200-250	50 and 60	232RS6 *	2CMA193122R1000	10	0.30
3P+E							
4	Black	600-690	50 and 60	332RS5	2CMA193129R1000	10	0.32
4	Red	380-415	50 and 60	332RS6 *	2CMA193130R1000	10	0.32
4	Black	480-500	50 and 60	332RS7	2CMA193131R1000	10	0.32
4	Blue	200-250	50 and 60	332RS9	2CMA193132R1000	10	0.32
3P+N+E							
5	Red	346-415	50 and 60	432RS6 *	2CMA193139R1000	10	0.34



63A, IP 44 Splashproof

Enclosure in thermoplastic polyester (PBT).

Cable entry M32, alternative rear knock-out. Cable area 6 - 25 mm²

Tough
& Safe

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	263RS4	2CMA167474R1000	1	0.95
3	Blue	200-250	50 and 60	263RS6	2CMA167476R1000	1	0.95
3P+E							
4	Black	600-690	50 and 60	363RS5	2CMA167496R1000	1	0.99
4	Red	380-415	50 and 60	363RS6 *	2CMA167498R1000	1	0.99
4	Black	480-500	50 and 60	363RS7	2CMA167500R1000	1	0.99
4	Blue	200-250	50 and 60	363RS9	2CMA167502R1000	1	0.99
3P+N+E							
5	Red	346-415	50 and 60	463RS6 *	2CMA167484R1000	1	1.05

*) Indicates standard product.

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Surface socket outlets

Plastic enclosed



16 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry Ø 25 mm.

Cable area 1.5 - 4 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey	>50-250	DC	216RS3W	2CMA167147R1000	1	0.34
3	Yellow	100-130	50 and 60	216RS4W	2CMA167148R1000	1	0.34
3	Blue	200-250	50 and 60	216RS6W *	2CMA167149R1000	1	0.34
3	Red	380-415	50 and 60	216RS9W	2CMA167150R1000	1	0.34
3	Grey	transf	50 and 60	216RS12W	2CMA167151R1000	1	0.34
3	Grey		AC	216RS1W	2CMA167152R1000	1	0.34

3P+E

4	Green	>50	>300-500	316RS2W	2CMA167153R1000	1	0.37
4	Grey	380/440	50/60	316RS3W	2CMA167154R1000	1	0.37
4	Yellow	100-130	50 and 60	316RS4W	2CMA167155R1000	1	0.37
4	Black	600-690	50 and 60	316RS5W	2CMA167156R1000	1	0.37
4	Red	380-415	50 and 60	316RS6W *	2CMA167157R1000	1	0.37
4	Black	480-500	50 and 60	316RS7W	2CMA167158R1000	1	0.37
4	Blue	200-250	50 and 60	316RS9W	2CMA167159R1000	1	0.37
4	Green	>50	100-300	316RS10W	2CMA167160R1000	1	0.37
4	Red	440-460	60	316RS11W	2CMA167161R1000	1	0.37
4	Grey		AC	316RS1W	2CMA167162R1000	1	0.37

3P+N+E

5	Green	>50	>300-500	416RS2W	2CMA167163R1000	1	0.40
5	Grey	380/440	50/60	416RS3W	2CMA167164R1000	1	0.40
5	Yellow	100-130	50 and 60	416RS4W	2CMA167165R1000	1	0.40
5	Red	346-415	50 and 60	416RS6W *	2CMA167166R1000	1	0.40
5	Black	480-500	50 and 60	416RS7W	2CMA167167R1000	1	0.40
5	Blue	208-250	50 and 60	416RS9W	2CMA167168R1000	1	0.40
5	Red	440-460	60	416RS11W	2CMA167169R1000	1	0.40
5	Grey		AC	416RS1W	2CMA167170R1000	1	0.40



32 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry Ø 25 mm.

Cable area 2.5 - 10 mm²



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	232RS4W	2CMA167171R1000	1	0.41
3	Blue	200-250	50 and 60	232RS6W *	2CMA167172R1000	1	0.41
3	Red	380-415	50 and 60	232RS9W	2CMA167173R1000	1	0.41
3	Grey	transf	50 and 60	232RS12W	2CMA167174R1000	1	0.41
3	Grey		AC	232RS1W	2CMA167175R1000	1	0.41

3P+E

4	Green	>50	>300-500	332RS2W	2CMA167176R1000	1	0.43
4	Grey	380/440	50/60	332RS3W	2CMA167177R1000	1	0.43
4	Yellow	100-130	50 and 60	332RS4W	2CMA167178R1000	1	0.43
4	Black	600-690	50 and 60	332RS5W	2CMA167179R1000	1	0.43
4	Red	380-415	50 and 60	332RS6W *	2CMA167180R1000	1	0.43
4	Black	480-500	50 and 60	332RS7W	2CMA167181R1000	1	0.43
4	Blue	200-250	50 and 60	332RS9W	2CMA167182R1000	1	0.43
4	Green	>50	100-300	332RS10W	2CMA167183R1000	1	0.43
4	Red	440-460	60	332RS11W	2CMA167184R1000	1	0.43
4	Grey		AC	332RS1W	2CMA167185R1000	1	0.43

3P+N+E

5	Green	>50	>300-500	432RS2W	2CMA167186R1000	1	0.48
5	Grey	380/440	50/60	432RS3W	2CMA167187R1000	1	0.48
5	Yellow	100-130	50 and 60	432RS4W	2CMA167188R1000	1	0.48
5	Red	346-415	50 and 60	432RS6W *	2CMA167189R1000	1	0.48
5	Black	480-500	50 and 60	432RS7W	2CMA167190R1000	1	0.48
5	Blue	208-250	50 and 60	432RS9W	2CMA167191R1000	1	0.48
5	Red	440-460	60	432RS11W	2CMA167192R1000	1	0.48
5	Grey		AC	432RS1W	2CMA167193R1000	1	0.48

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*) Indicates standard product.

Surface socket outlets

Plastic enclosed



63 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry Ø 32 mm.
Cable area 6 - 25 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	263RS1W	2CMA167310R1000	1	1.00
3	Yellow	100-130	50 and 60	263RS4W	2CMA167304R1000	1	1.00
3	Blue	200-250	50 and 60	263RS6W	2CMA167306R1000	1	1.00
3	Red	380-415	50 and 60	263RS9W	2CMA167308R1000	1	1.00
3P+E							
4	Grey		AC	363RS1W	2CMA167324R1000	1	1.07
4	Yellow	100-130	50 and 60	363RS4W	2CMA167312R1000	1	1.07
4	Black	600-690	50 and 60	363RS5W	2CMA167314R1000	1	1.07
4	Red	380-415	50 and 60	363RS6W	2CMA167316R1000	1	1.07
4	Black	480-500	50 and 60	363RS7W	2CMA167318R1000	1	1.07
4	Blue	200-250	50 and 60	363RS9W	2CMA167320R1000	1	1.07
4	Red	440-460	60	363RS11W	2CMA167322R1000	1	1.07
3P+N+E							
5	Grey		AC	463RS1W	2CMA167336R1000	1	1.15
5	Yellow	100-130	50 and 60	463RS4W	2CMA167326R1000	1	1.15
5	Red	346-415	50 and 60	463RS6W *	2CMA167328R1000	1	1.15
5	Black	480-500	50 and 60	463RS7W	2CMA167330R1000	1	1.15
5	Blue	208-250	50 and 60	463RS9W	2CMA167332R1000	1	1.15
5	Red	440-460	60	463RS11W	2CMA167334R1000	1	1.15



125 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry Ø 50 mm.
Cable area 16 - 70 mm²



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	2125RS1W	2CMA167248R1000	1	1.45
3	Yellow	100-130	50 and 60	2125RS4W	2CMA167244R1000	1	1.45
3	Blue	200-250	50 and 60	2125RS6W	2CMA167246R1000	1	1.45
3P+E							
4	Grey		AC	3125RS1W	2CMA167260R1000	1	1.55
4	Yellow	100-130	50 and 60	3125RS4W	2CMA167250R1000	1	1.55
4	Black	600-690	50 and 60	3125RS5W	2CMA167251R1000	1	1.55
4	Red	380-415	50 and 60	3125RS6W *	2CMA167252R1000	1	1.55
4	Black	480-500	50 and 60	3125RS7W	2CMA167254R1000	1	1.55
4	Blue	200-250	50 and 60	3125RS9W	2CMA167256R1000	1	1.55
4	Red	440-460	60	3125RS11W	2CMA167258R1000	1	1.55
3P+N+E							
5	Grey		AC	4125RS1W	2CMA167272R1000	1	1.69
5	Yellow	100-130	50 and 60	4125RS4W	2CMA167262R1000	1	1.69
5	Red	346-415	50 and 60	4125RS6W *	2CMA167264R1000	1	1.69
5	Black	480-500	50 and 60	4125RS7W	2CMA167266R1000	1	1.69
5	Blue	208-250	50 and 60	4125RS9W	2CMA167268R1000	1	1.69
5	Red	440-460	60	4125RS11W	2CMA167270R1000	1	1.69

*) Indicates standard product.

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Surface socket outlets

For looping



16 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry knock-outs 2 x Ø 25 mm. Terminal block 2 x (2.5 - 10 mm²). Outlet is connected to terminal block.



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	216RL1W	2CMA168461R1000	1	0.63
3	Grey	>50-250	DC	216RL3W	2CMA168456R1000	1	0.63
3	Yellow	100-130	50 and 60	216RL4W	2CMA168457R1000	1	0.63
3	Blue	200-250	50 and 60	216RL6W	2CMA168458R1000	1	0.63
3	Red	380-415	50 and 60	216RL9W	2CMA168459R1000	1	0.63
3	Grey	transf	DC	216RL12W	2CMA168460R1000	1	0.63
3P+E							
4	Grey		AC	316RL1W	2CMA168471R1000	1	0.66
4	Green	>50	>300-500	316RL2W	2CMA168462R1000	1	0.66
4	Grey	380/440	50/60	316RL3W	2CMA168463R1000	1	0.66
4	Yellow	100-130	50 and 60	316RL4W	2CMA168464R1000	1	0.66
4	Black	600-690	50 and 60	316RL5W	2CMA168465R1000	1	0.66
4	Red	380-415	50 and 60	316RL6W	2CMA168466R1000	1	0.66
4	Black	480-500	50 and 60	316RL7W	2CMA168467R1000	1	0.66
4	Blue	200-250	50 and 60	316RL9W	2CMA168468R1000	1	0.66
4	Green	>50	100-300	316RL10W	2CMA168469R1000	1	0.66
4	Red	440-460	60	316RL11W	2CMA168470R1000	1	0.66
3P+N+E							
5	Grey		AC	416RL1W	2CMA168479R1000	1	0.68
5	Green	>50	>300-500	416RL2W	2CMA168472R1000	1	0.68
5	Grey	380/440	50/60	416RL3W	2CMA168473R1000	1	0.68
5	Yellow	100-130	50 and 60	416RL4W	2CMA168474R1000	1	0.68
5	Red	346-415	50 and 60	416RL6W	2CMA168475R1000	1	0.68
5	Black	480-500	50 and 60	416RL7W	2CMA168476R1000	1	0.68
5	Blue	208-250	50 and 60	416RL9W	2CMA168477R1000	1	0.68
5	Red	440-460	60	416RL11W	2CMA168478R1000	1	0.68



32 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry knock-outs 2 x Ø 25 mm. Terminal block 2 x (2.5 - 10 mm²). Outlet is connected to terminal block.



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	232RL1W	2CMA168484R1000	1	0.69
3	Yellow	100-130	50 and 60	232RL4W	2CMA168480R1000	1	0.69
3	Blue	200-250	50 and 60	232RL6W	2CMA168481R1000	1	0.69
3	Red	380-415	50 and 60	232RL9W	2CMA168482R1000	1	0.69
3	Grey	transf	50 and 60	232RL12W	2CMA168483R1000	1	0.69
3P+E							
4	Grey		AC	332RL1W	2CMA168494R1000	1	0.70
4	Green	>50	>300-500	332RL2W	2CMA168485R1000	1	0.70
4	Grey	380/440	50/60	332RL3W	2CMA168486R1000	1	0.70
4	Yellow	100-130	50 and 60	332RL4W	2CMA168487R1000	1	0.70
4	Black	600-690	50 and 60	332RL5W	2CMA168488R1000	1	0.70
4	Red	380-415	50 and 60	332RL6W	2CMA168489R1000	1	0.70
4	Black	480-500	50 and 60	332RL7W	2CMA168490R1000	1	0.70
4	Blue	200-250	50 and 60	332RL9W	2CMA168491R1000	1	0.70
4	Green	>50	100-300	332RL10W	2CMA168492R1000	1	0.70
4	Red	440-460	60	332RL11W	2CMA168493R1000	1	0.70
3P+N+E							
5	Grey		AC	432RL1W	2CMA168502R1000	1	0.72
5	Green	>50	>300-500	432RL2W	2CMA168495R1000	1	0.72
5	Grey	380/440	50/60	432RL3W	2CMA168496R1000	1	0.72
5	Yellow	100-130	50 and 60	432RL4W	2CMA168497R1000	1	0.72
5	Red	346-415	50 and 60	432RL6W *	2CMA168498R1000	1	0.72
5	Black	480-500	50 and 60	432RL7W	2CMA168499R1000	1	0.72
5	Blue	208-250	50 and 60	432RL9W	2CMA168500R1000	1	0.72
5	Red	440-460	60	432RL11W	2CMA168501R1000	1	0.72

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- Dimensions.....page 81

*) Indicates standard product.

Surface socket outlets

For looping



125 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry with knock-outs
2 x Ø 50/25 mm. Terminal block 2 x (16 - 70 mm²). Outlet is connected to terminal block.



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	2125RL1W	2CMA168528R1000	1	4.00
3	Yellow	100-130	50 and 60	2125RL4W	2CMA168526R1000	1	4.00
3	Blue	200-250	50 and 60	2125RL6W	2CMA168527R1000	1	4.00
3P+E							
4	Grey		AC	3125RL1W	2CMA168534R1000	1	4.10
4	Yellow	100-130	50 and 60	3125RL4W	2CMA168529R1000	1	4.10
4	Red	380-415	50 and 60	3125RL6W	2CMA168530R1000	1	4.10
4	Black	480-500	50 and 60	3125RL7W	2CMA168531R1000	1	4.10
4	Blue	200-250	50 and 60	3125RL9W	2CMA168532R1000	1	4.10
4	Red	440-460	60	3125RL11W	2CMA168533R1000	1	4.10
3P+N+E							
5	Grey		AC	4125RL1W	2CMA168540R1000	1	4.25
5	Yellow	100-130	50 and 60	4125RL4W	2CMA168535R1000	1	4.25
5	Red	346-415	50 and 60	4125RL6W	2CMA168536R1000	1	4.25
5	Black	480-500	50 and 60	4125RL7W	2CMA168537R1000	1	4.25
5	Blue	208-250	50 and 60	4125RL9W	2CMA168538R1000	1	4.25
5	Red	440-460	60	4125RL11W	2CMA168539R1000	1	4.25

- 2125 - 4125RL...W can be equipped with sealings up to 70 mm².
- Cable clamps for Al available on request.
- RL...W have terminal block for 2 wire feeding under the same clamp.

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Surface socket outlets

With protection



16 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Contains MCB type S201/S203 characteristic C. Cable entry with knock-outs 2x Ø 25 mm. Cable area 1.5 - 10 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	216RPM4W	2CMA168196R1000	1	1.16
3	Blue	200-250	50 and 60	216RPM6W	2CMA168197R1000	1	1.16
3	Red	380-415	50 and 60	216RPM9W	2CMA168198R1000	1	1.16
3	Grey	transf	50 and 60	216RPM12W	2CMA168199R1000	1	1.16
3P+E							
4	Green	>50	>300-500	316RPM2W	2CMA168201R1000	1	1.19
4	Grey	380/440	50/60	316RPM3W	2CMA168202R1000	1	1.19
4	Yellow	100-130	50 and 60	316RPM4W	2CMA168203R1000	1	1.19
4	Black	600-690	50 and 60	316RPM5W	2CMA168204R1000	1	1.19
4	Red	380-415	50 and 60	316RPM6W	2CMA168205R1000	1	1.19
4	Black	480-500	50 and 60	316RPM7W	2CMA168206R1000	1	1.19
4	Blue	200-250	50 and 60	316RPM9W	2CMA168207R1000	1	1.19
4	Green	>50	100-300	316RPM10W	2CMA168208R1000	1	1.19
4	Red	440-460	60	316RPM11W	2CMA168209R1000	1	1.19
3P+N+E							
5	Green	>50	>300-500	416RPM2W	2CMA168211R1000	1	1.21
5	Grey	380/440	50/60	416RPM3W	2CMA168212R1000	1	1.21
5	Yellow	100-130	50 and 60	416RPM4W	2CMA168213R1000	1	1.21
5	Red	346-415	50 and 60	416RPM6W	2CMA168214R1000	1	1.21
5	Black	480-500	50 and 60	416RPM7W	2CMA168215R1000	1	1.21
5	Blue	208-250	50 and 60	416RPM9W	2CMA168216R1000	1	1.21
5	Red	440-460	60	416RPM11W	2CMA168217R1000	1	1.21



32 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Contains MCB type S201/S203 characteristic C. Cable entry with knock-outs 2x Ø 25 mm. Cable area 2.5 - 10 mm²



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	232RPM4W	2CMA168219R1000	1	1.22
3	Blue	200-250	50 and 60	232RPM6W	2CMA168220R1000	1	1.22
3	Red	380-415	50 and 60	232RPM9W	2CMA168221R1000	1	1.22
3	Grey	transf	50 and 60	232RPM12W	2CMA168222R1000	1	1.22
3P+E							
4	Green	>50	>300-500	332RPM2W	2CMA168224R1000	1	1.23
4	Grey	380/440	50/60	332RPM3W	2CMA168225R1000	1	1.23
4	Yellow	100-130	50 and 60	332RPM4W	2CMA168226R1000	1	1.23
4	Black	600-690	50 and 60	332RPM5W	2CMA168227R1000	1	1.23
4	Red	380-415	50 and 60	332RPM6W	2CMA168228R1000	1	1.23
4	Black	480-500	50 and 60	332RPM7W	2CMA168229R1000	1	1.23
4	Blue	200-250	50 and 60	332RPM9W	2CMA168230R1000	1	1.23
5	Green	>50	100-300	332RPM10W	2CMA168231R1000	1	1.23
4	Red	440-460	60	332RPM11W	2CMA168232R1000	1	1.23
3P+N+E							
5	Green	>50	>300-500	432RPM2W	2CMA168234R1000	1	1.25
5	Grey	380/440	50/60	432RPM3W	2CMA168235R1000	1	1.25
5	Yellow	100-130	50 and 60	432RPM4W	2CMA168236R1000	1	1.25
5	Red	346-415	50 and 60	432RPM6W *	2CMA168237R1000	1	1.25
5	Black	480-500	50 and 60	432RPM7W	2CMA168238R1000	1	1.25
5	Blue	208-250	50 and 60	432RPM9W	2CMA168239R1000	1	1.25
5	Red	440-460	60	432RPM11W	2CMA168240R1000	1	1.25

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* Indicates standard product.

Surface socket outlets

With protection



16 A, IP 44 Splashproof

Enclosure in thermoplastic polyester (PBT). Contains RCD 25 A / 0.03 A, type A.
Cable entry with knock-outs 2 x Ø 25 mm. Cable area 1.5 - 4 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Blue	200-250	50 and 60	216RPR6	2CMA168261R1000	1	1.13
3P+E							
4	Red	380-415	50 and 60	316RPR6	2CMA168269R1000	1	1.16
4	Blue	200-250	50 and 60	316RPR9	2CMA168271R1000	1	1.16
3P+N+E							
5	Red	346-415	50 and 60	416RPR6	2CMA168278R1000	1	1.18



32 A, IP 44 Splashproof

Enclosure in thermoplastic polyester (PBT). Contains RCD 40 A / 0.03 A, type A.
Cable entry with knock-outs 2 x Ø 25 mm. Cable area 2.5 - 10 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Blue	200-250	50 and 60	232RPR6	2CMA168283R1000	1	1.19
3P+E							
4	Red	380-415	50 and 60	332RPR6	2CMA168291R1000	1	1.20
4	Blue	200-250	50 and 60	332RPR9	2CMA168293R1000	1	1.20
3P+N+E							
5	Red	346-415	50 and 60	432RPR6	2CMA168300R1000	1	1.22

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Surface socket outlets

With protection



16 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Contains RCD 25A / 0.03 A, type A.
Cable entry with knock-outs 2 x Ø 25 mm. Cable area 1.5 - 4 mm²



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	216RPR4W	2CMA168323R1000	1	1.16
3	Blue	200-250	50 and 60	216RPR6W	2CMA168324R1000	1	1.16
3	Grey	transf	50 and 60	216RPR12W	2CMA168326R1000	1	1.16
3P+E							
4	Yellow	100-130	50 and 60	316RPR4W	2CMA168330R1000	1	1.19
4	Red	380-415	50 and 60	316RPR6W	2CMA168332R1000	1	1.19
4	Blue	200-250	50 and 60	316RPR9W	2CMA168334R1000	1	1.19
3P+N+E							
5	Yellow	100-130	50 and 60	416RPR4W	2CMA168340R1000	1	1.21
5	Red	346-415	50 and 60	416RPR6W	2CMA168341R1000	1	1.21
5	Blue	208-250	50 and 60	416RPR9W	2CMA168343R1000	1	1.21



32 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Contains RCD 40 A / 0.03 A, type A.
Cable entry with knock-outs 2 x Ø 25 mm. Cable area 2.5 - 10 mm²



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	232RPR4W	2CMA168346R1000	1	1.22
3	Blue	200-250	50 and 60	232RPR6W *	2CMA168347R1000	1	1.22
3	Grey	transf	50 and 60	232RPR12W	2CMA168349R1000	1	1.22
3P+E							
4	Yellow	100-130	50 and 60	332RPR4W	2CMA168353R1000	1	1.23
4	Red	380-415	50 and 60	332RPR6W *	2CMA168355R1000	1	1.23
4	Blue	200-250	50 and 60	332RPR9W	2CMA168357R1000	1	1.23
3P+N+E							
5	Yellow	100-130	50 and 60	432RPR4W	2CMA168363R1000	1	1.25
5	Red	346-415	50 and 60	432RPR6W	2CMA168364R1000	1	1.25
5	Blue	208-250	50 and 60	432RPR9W	2CMA168366R1000	1	1.25

* Indicates standard product.

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Surface socket outlets

With protection



16 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry with knock-outs 2 x Ø 25 mm. Cable area 1.5 - 10 mm². Delivered without MCB/RCD. Space for 4 modules.



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+							
3	Blue	200-250	50 and 60	216RP6WP	2CMA164572R1000	1	0.82
3P+N+E							
5	Red	346-415	50 and 60	416RP6WP	2CMA164589R1000	1	0.94



32 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry with knock-outs 2 x Ø 25 mm. Cable area 2.5 - 10 mm². Delivered without MCB/RCD. Space for 4 modules.



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Blue	200-250	50 and 60	232RP6WP	2CMA164602R1000	1	0.85
3P+N+E							
5	Red	346-415	50 and 60	432RP6WP	2CMA164619R1000	1	0.97

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Surface socket outlets

For wall socket box



16 A, IP 44 Splashproof

Enclosure in thermoplastic. Cable area 1.5 - 4 mm². Enclosure color RAL 7035.

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
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For flush mounting

2P+E

3	 Blue	200-250	50 and 60	CUED 216-6 *	2CMA178698R1000	10	0.17
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3P+N+E

5	 Red	346-415	50 and 60	CUED 416-6 *	2CMA178699R1000	10	0.21
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For surface mounting

2P+E

3	 Blue	200-250	50 and 60	CUED 216-6+RD216	2CMA178695R1000	10	0.25
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3P+N+E

5	 Red	346-415	50 and 60	CUED 416-6+RD *	2CMA178696R1000	10	0.31
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* Indicates standard product.

Cable entries

- RD 216 has two alternative knock-out entries Ø 23 and Ø 20.5 mm.

- RD has four alternative knock-outs entries Ø 20.5, Ø 23, Ø 25.5 and Ø 29 mm

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Surface inlets



16 A, IP 44 Splashproof

Enclosure in thermoplastic. Flexible membrane and metric threaded M20 insert for top cable entry. Rear knock-out cable entry. Cable area 1.5 - 4 mm²

Easy & Safe

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	216BS4	2CMA193289R1000	10	0.15
3	Blue	200-250	50 and 60	216BS6 *	2CMA193290R1000	10	0.15
3P+E							
4	Yellow	100-130	50 and 60	316BS4	2CMA193296R1000	10	0.19
4	Black	600-690	50 and 60	316BS5	2CMA193297R1000	10	0.19
4	Red	380-415	50 and 60	316BS6 *	2CMA193298R1000	10	0.19
4	Black	480-500	50 and 60	316BS7	2CMA193299R1000	10	0.19
4	Blue	200-250	50 and 60	316BS9	2CMA193300R1000	10	0.19
4	Red	440-460	60	316BS11	2CMA193302R1000	10	0.19
3P+N+E							
5	Red	346-415	50 and 60	416BS6 *	2CMA193307R1000	10	0.20



32 A, IP 44 Splashproof

Enclosure in thermoplastic. Flexible membrane and metric threaded M25 insert for top cable entry. Rear knock-out cable entry. Cable area 2.5 - 10 mm²

Easy & Safe

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	232BS4	2CMA193313R1000	10	0.25
3	Blue	200-250	50 and 60	232BS6 *	2CMA193314R1000	10	0.25
3P+E							
4	Black	600-690	50 and 60	332BS5	2CMA193321R1000	10	0.27
4	Red	380-415	50 and 60	332BS6 *	2CMA193322R1000	10	0.27
4	Black	480-500	50 and 60	332BS7	2CMA193323R1000	10	0.27
4	Blue	200-250	50 and 60	332BS9	2CMA193324R1000	10	0.27
3P+N+E							
5	Red	346-415	50 and 60	432BS6 *	2CMA193331R1000	10	0.29



63 A, IP 44 Splashproof

Enclosure in thermoplastic polyester (PBT). Cable entry: M32, alternative rear knock-out cable entry. Cable area 6 - 25 mm².

Easy & Safe

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	263BS4	2CMA167542R1000	1	0.80
3	Blue	200-250	50 and 60	263BS6	2CMA167544R1000	1	0.80
3P+E							
4	Black	600-690	50 and 60	363BS5	2CMA167552R1000	1	0.85
4	Red	380-415	50 and 60	363BS6 *	2CMA167554R1000	1	0.85
4	Black	480-500	50 and 60	363BS7	2CMA167556R1000	1	0.85
4	Blue	200-250	50 and 60	363BS9	2CMA167558R1000	1	0.85
3P+N+E							
5	Red	346-415	50 and 60	463BS6 *	2CMA167566R1000	1	0.90

*) Indicates standard product.

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Surface inlets



16 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry Ø 25 mm.
Cable area 1.5 - 4 mm².



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	216BS1W	2CMA167050R1000	1	0.36
3	Grey	>50-250	DC	216BS3W	2CMA167040R1000	1	0.36
3	Yellow	100-130	50 and 60	216BS4W	2CMA167042R1000	1	0.36
3	Blue	200-250	50 and 60	216BS6W	2CMA167044R1000	1	0.36
3	Red	380-415	50 and 60	216BS9W	2CMA167046R1000	1	0.36
3	Grey	transf	50 and 60	216BS12W	2CMA167048R1000	1	0.36
3P+E							
4	Grey		AC	316BS1W	2CMA167070R1000	1	0.41
4	Green	>50	>300-500	316BS2W	2CMA167052R1000	1	0.41
4	Grey	380/440	50/60	316BS3W	2CMA167054R1000	1	0.41
4	Yellow	100-130	50 and 60	316BS4W	2CMA167056R1000	1	0.41
4	Black	600-690	50 and 60	316BS5W	2CMA167058R1000	1	0.41
4	Red	380-415	50 and 60	316BS6W *	2CMA167060R1000	1	0.41
4	Black	480-500	50 and 60	316BS7W	2CMA167062R1000	1	0.41
4	Blue	200-250	50 and 60	316BS9W *	2CMA167064R1000	1	0.41
4	Green	>50	100-300	316BS10W	2CMA167066R1000	1	0.41
4	Red	440-460	60	316BS11W	2CMA167068R1000	1	0.41
3P+N+E							
5	Grey		AC	416BS1W	2CMA167086R1000	1	0.43
5	Green	>50	>300-500	416BS2W	2CMA167072R1000	1	0.43
5	Grey	380/440	50/60	416BS3W	2CMA167074R1000	1	0.43
5	Yellow	100-130	50 and 60	416BS4W	2CMA167076R1000	1	0.43
5	Red	346-415	50 and 60	416BS6W *	2CMA167078R1000	1	0.43
5	Black	480-500	50 and 60	416BS7W	2CMA167080R1000	1	0.43
5	Blue	208-250	50 and 60	416BS9W	2CMA167082R1000	1	0.43
5	Red	440-460	60	416BS11W	2CMA167084R1000	1	0.43

*1) Indicates standard product.

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Surface inlets



32 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry Ø 25 mm.
Cable area 2.5 - 10 mm².



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	232BS1W	2CMA167096R1000	1	0.44
3	Yellow	100-130	50 and 60	232BS4W	2CMA167088R1000	1	0.44
3	Blue	200-250	50 and 60	232BS6W *	2CMA167090R1000	1	0.44
3	Red	380-415	50 and 60	232BS9W	2CMA167092R1000	1	0.44
3	Grey	transf	50 and 60	232BS12W	2CMA167094R1000	1	0.44
3P+E							
4	Grey		AC	332BS1W	2CMA167114R1000	1	0.46
4	Green	>50	>300-500	332BS2W	2CMA167098R1000	1	0.46
4	Grey	380/440	50/60	332BS3W	2CMA167100R1000	1	0.46
4	Yellow	100-130	50 and 60	332BS4W	2CMA167102R1000	1	0.46
4	Black	600-690	50 and 60	332BS5W	2CMA167103R1000	1	0.46
4	Red	380-415	50 and 60	332BS6W *	2CMA167104R1000	1	0.46
4	Black	480-500	50 and 60	332BS7W	2CMA167106R1000	1	0.46
4	Blue	200-250	50 and 60	332BS9W	2CMA167108R1000	1	0.46
4	Green	>50	100-300	332BS10W	2CMA167110R1000	1	0.46
4	Red	440-460	60	332BS11W	2CMA167112R1000	1	0.46
3P+N+E							
5	Grey		AC	432BS1W	2CMA167130R1000	1	0.48
5	Green	>50	>300-500	432BS2W	2CMA167116R1000	1	0.48
5	Grey	380/440	50/60	432BS3W	2CMA167118R1000	1	0.48
5	Yellow	100-130	50 and 60	432BS4W	2CMA167120R1000	1	0.48
5	Red	346-415	50 and 60	432BS6W *	2CMA167122R1000	1	0.48
5	Black	480-500	50 and 60	432BS7W	2CMA167124R1000	1	0.48
5	Blue	208-250	50 and 60	432BS9W	2CMA167126R1000	1	0.48
5	Red	440-460	60	432BS11W	2CMA167128R1000	1	0.48

*) Indicates standard product.

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Surface inlets



63 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry Ø 32 mm.
Cable area 6 - 25 mm².



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	263BS1W	2CMA167344R1000	1	1.20
3	Yellow	100-130	50 and 60	263BS4W	2CMA167338R1000	1	1.20
3	Blue	200-250	50 and 60	263BS6W	2CMA167340R1000	1	1.20
3	Red	380-415	50 and 60	263BS9W	2CMA167342R1000	1	1.20
3P+E							
4	Grey		AC	363BS1W	2CMA167358R1000	1	1.30
4	Yellow	100-130	50 and 60	363BS4W	2CMA167346R1000	1	1.30
4	Black	600-690	50 and 60	363BS5W	2CMA167348R1000	1	1.30
4	Red	380-415	50 and 60	363BS6W	2CMA167350R1000	1	1.30
4	Black	480-500	50 and 60	363BS7W	2CMA167352R1000	1	1.30
4	Blue	200-250	50 and 60	363BS9W	2CMA167354R1000	1	1.30
4	Red	440-460	60	363BS11W	2CMA167356R1000	1	1.30
3P+N+E							
5	Grey		AC	463BS1W	2CMA167370R1000	1	1.40
5	Yellow	100-130	50 and 60	463BS4W	2CMA167360R1000	1	1.40
5	Red	346-415	50 and 60	463BS6W *	2CMA167362R1000	1	1.40
5	Black	480-500	50 and 60	463BS7W	2CMA167364R1000	1	1.40
5	Blue	208-250	50 and 60	463BS9W	2CMA167366R1000	1	1.40
5	Red	440-460	60	463BS11W	2CMA167368R1000	1	1.40



125 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable entry Ø 50 mm.
Cable area 16 - 70 mm².



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	2125BS1W	2CMA167278R1000	1	4.00
3	Yellow	100-130	50 and 60	2125BS4W	2CMA167274R1000	1	4.00
3	Blue	200-250	50 and 60	2125BS6W	2CMA167276R1000	1	4.00
3P+E							
4	Grey		AC	3125BS1W	2CMA167290R1000	1	4.10
4	Yellow	100-130	50 and 60	3125BS4W	2CMA167280R1000	1	4.10
4	Red	380-415	50 and 60	3125BS6W	2CMA167282R1000	1	4.10
4	Black	480-500	50 and 60	3125BS7W	2CMA167284R1000	1	4.10
4	Blue	200-250	50 and 60	3125BS9W	2CMA167286R1000	1	4.10
4	Red	440-460	60	3125BS11W	2CMA167288R1000	1	4.10
3P+N+E							
5	Grey		AC	4125BS1W	2CMA167302R1000	1	4.25
5	Yellow	100-130	50 and 60	4125BS4W	2CMA167292R1000	1	4.25
5	Red	346-415	50 and 60	4125BS6W *	2CMA167294R1000	1	4.25
5	Black	480-500	50 and 60	4125BS7W	2CMA167296R1000	1	4.25
5	Blue	208-250	50 and 60	4125BS9W	2CMA167298R1000	1	4.25
5	Red	440-460	60	4125BS11W	2CMA167300R1000	1	4.25

* Indicates standard product.

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Panel mounted socket outlets and inlets

Outlets minimized straight flange



16 A, IP 44 Splashproof

Enclosure in thermoplastic. Cable area 1.5 - 4 mm².



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	216R4 *	2CMA193145R1000	10	0.14
3	Blue	200-250	50 and 60	216R6 *	2CMA193146R1000	10	0.14
3P+E							
4	Yellow	100-130	50 and 60	316R4	2CMA193152R1000	10	0.17
4	Black	600-690	50 and 60	316R5	2CMA193153R1000	10	0.17
4	Red	380-415	50 and 60	316R6 *	2CMA193154R1000	10	0.17
4	Black	480-500	50 and 60	316R7 *	2CMA193155R1000	10	0.17
4	Blue	200-250	50 and 60	316R9	2CMA193156R1000	10	0.17
4	Red	440-460	60	316R11 *	2CMA193158R1000	10	0.17
3P+N+E							
5	Red	346-415	50 and 60	416R6 *	2CMA193163R1000	10	0.19

*) Indicates standard product.

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Panel mounted socket outlets and inlets

Outlets unified straight flange



16 A, IP 44 Splashproof

Enclosure in thermoplastic. Cable area 1.5 - 4 mm².



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	216RU4	2CMA193169R1000	10	0.15
3	Blue	200-250	50 and 60	216RU6 *	2CMA193170R1000	10	0.15
3P+E							
4	Yellow	100-130	50 and 60	316RU4	2CMA193176R1000	10	0.18
4	Black	600-690	50 and 60	316RU5	2CMA193177R1000	10	0.18
4	Red	380-415	50 and 60	316RU6 *	2CMA193178R1000	10	0.18
4	Black	480-500	50 and 60	316RU7	2CMA193179R1000	10	0.18
4	Blue	200-250	50 and 60	316RU9 *	2CMA193180R1000	10	0.18
4	Red	440-460	60	316RU11	2CMA193182R1000	10	0.18
3P+N+E							
5	Red	346-415	50 and 60	416RU6 *	2CMA193187R1000	10	0.20



32 A, IP 44 Splashproof

Enclosure in thermoplastic. Cable area 2.5 - 10 mm².



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	232RU4 *	2CMA193241R1000	10	0.21
3	Blue	200-250	50 and 60	232RU6 *	2CMA193242R1000	10	0.21
3P+E							
4	Black	600-690	50 and 60	332RU5	2CMA193249R1000	10	0.22
4	Red	380-415	50 and 60	332RU6 *	2CMA193250R1000	10	0.22
4	Black	480-500	50 and 60	332RU7	2CMA193251R1000	10	0.22
4	Blue	200-250	50 and 60	332RU9 *	2CMA193252R1000	10	0.22
3P+N+E							
5	Red	346-415	50 and 60	432RU6 *	2CMA193259R1000	10	0.24



63 A, IP 44 Splashproof

Enclosure in thermoplastic polyester (PBT). Cable area 6 - 25 mm².



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	263RU4	2CMA167508R1000	1	0.60
3	Blue	200-250	50 and 60	263RU6	2CMA167510R1000	1	0.60
3P+E							
4	Black	600-690	50 and 60	363RU5	2CMA167518R1000	1	0.69
4	Red	380-415	50 and 60	363RU6	2CMA167520R1000	1	0.69
4	Black	480-500	50 and 60	363RU7	2CMA167522R1000	1	0.69
4	Blue	200-250	50 and 60	363RU9	2CMA167524R1000	1	0.69
3P+N+E							
5	Red	346-415	50 and 60	463RU6 *	2CMA167532R1000	1	0.76

*) Indicates standard product.

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- Dimensions page 81

Panel mounted socket outlets and inlets

Outlets unified straight flange



63 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT).
Cable area 6 - 25 mm².



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	263RU1W	2CMA167378R1000	1	0.64
3	Yellow	100-130	50 and 60	263RU4W	2CMA167372R1000	1	0.64
3	Blue	200-250	50 and 60	263RU6W	2CMA167374R1000	1	0.64
3	Red	380-415	50 and 60	263RU9W	2CMA167376R1000	1	0.64
3P+E							
4	Grey		AC	363RU1W	2CMA167392R1000	1	0.69
4	Yellow	100-130	50 and 60	363RU4W	2CMA167380R1000	1	0.69
4	Black	600-690	50 and 60	363RU5W	2CMA167382R1000	1	0.69
4	Red	380-415	50 and 60	363RU6W *	2CMA167384R1000	1	0.69
4	Black	480-500	50 and 60	363RU7W	2CMA167386R1000	1	0.69
4	Blue	200-250	50 and 60	363RU9W	2CMA167388R1000	1	0.69
4	Red	440-460	60	363RU11W	2CMA167390R1000	1	0.69
3P+N+E							
5	Grey		AC	463RU1W	2CMA167404R1000	1	0.76
5	Yellow	100-130	50 and 60	463RU4W	2CMA167394R1000	1	0.76
5	Red	346-415	50 and 60	463RU6W	2CMA167396R1000	1	0.76
5	Black	480-500	50 and 60	463RU7W	2CMA167398R1000	1	0.76
5	Blue	208-250	50 and 60	463RU9W	2CMA167400R1000	1	0.76
5	Red	440-460	60	463RU11W	2CMA167402R1000	1	0.76



125 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT).
Cable area 16 - 70 mm².



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	2125RU1W	2CMA167134R1000	1	0.85
3	Yellow	100-130	50 and 60	2125RU4W	2CMA167132R1000	1	0.85
3	Blue	200-250	50 and 60	2125RU6W *	2CMA167133R1000	1	0.85
3	Blue	200-250	50 and 60	2125RU6W LP **	2CMA192729R1000	1	0.85
3P+E							
4	Grey		AC	3125RU1W	2CMA167140R1000	1	1.00
4	Yellow	100-130	50 and 60	3125RU4W	2CMA167135R1000	1	1.00
4	Red	380-415	50 and 60	3125RU6W	2CMA167136R1000	1	1.00
4	Red	380-415	50 and 60	3125RU6W LP **	2CMA192730R1000	1	1.00
4	Black	480-500	50 and 60	3125RU7W	2CMA167137R1000	1	1.00
4	Blue	200-250	50 and 60	3125RU9W	2CMA167138R1000	1	1.00
4	Red	440-460	60	3125RU11W	2CMA167139R1000	1	1.00
3P+N+E							
5	Grey		AC	4125RU1W	2CMA167146R1000	1	1.14
5	Yellow	100-130	50 and 60	4125RU4W	2CMA167141R1000	1	1.14
5	Red	346-415	50 and 60	4125RU6W *	2CMA167142R1000	1	1.14
5	Red	346-415	50 and 60	4125RU6W LP **	2CMA169213R1000	1	1.14
5	Black	480-500	50 and 60	4125RU7W *	2CMA167143R1000	1	1.14
5	Blue	208-250	50 and 60	4125RU9W	2CMA167144R1000	1	1.14
5	Red	440-460	60	4125RU11W	2CMA167145R1000	1	1.14

*) Indicates standard product.
**) Long phase sleeves, pilot sleeve.
- Delivered with flange gasket.

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Panel mounted socket outlets and inlets

Outlets minimized angled flange



16 A, IP 44 Splashproof Enclosure in thermoplastic. Cable area 1.5 - 4 mm².



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	216RAM4	2CMA170003R1000	10	0.21
3	Blue	200-250	50 and 60	216RAM6 *	2CMA170004R1000	10	0.21
3P+E							
4	Yellow	100-130	50 and 60	316RAM4	2CMA170010R1000	10	0.22
4	Black	600-690	50 and 60	316RAM5	2CMA170011R1000	10	0.22
4	Red	380-415	50 and 60	316RAM6 *	2CMA170012R1000	10	0.22
4	Black	480-500	50 and 60	316RAM7	2CMA170013R1000	10	0.22
4	Blue	200-250	50 and 60	316RAM9	2CMA170014R1000	10	0.22
4	Red	440-460	60	316RAM11	2CMA170016R1000	10	0.22
3P+N+E							
5	Red	346-415	50 and 60	416RAM6 *	2CMA170021R1000	10	0.24



32 A, IP 44 Splashproof Enclosure in thermoplastic. Cable area 2.5 - 10 mm².



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	232RAM4	2CMA170026R1000	10	0.21
3	Blue	200-250	50 and 60	232RAM6	2CMA170027R1000	10	0.21
3P+E							
4	Black	600-690	50 and 60	332RAM5	2CMA170034R1000	10	0.22
4	Red	380-415	50 and 60	332RAM6	2CMA170035R1000	10	0.22
4	Black	480-500	50 and 60	332RAM7	2CMA170036R1000	10	0.22
4	Blue	200-250	50 and 60	332RAM9	2CMA170037R1000	10	0.22
3P+N+E							
5	Red	346-415	50 and 60	432RAM6 *	2CMA170044R1000	10	0.24

*) Indicates standard product.

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Panel mounted socket outlets and inlets

Outlets unified angled flange



16 A, IP 44 Splashproof Enclosure in thermoplastic. Cable area 1.5 - 4 mm².

Easy
& Safe

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+							
3	Yellow	100-130	50 and 60	216RAU4	2CMA193217R1000	10	0.19
3	Blue	200-250	50 and 60	216RAU6 *	2CMA193218R1000	10	0.19
3P+E							
4	Yellow	100-130	50 and 60	316RAU4	2CMA193224R1000	10	0.22
4	Black	600-690	50 and 60	316RAU5	2CMA193225R1000	10	0.22
4	Red	380-415	50 and 60	316RAU6 *	2CMA193226R1000	10	0.22
4	Black	480-500	50 and 60	316RAU7	2CMA193227R1000	10	0.22
4	Blue	200-250	50 and 60	316RAU9	2CMA193228R1000	10	0.22
4	Red	440-460	60	316RAU11	2CMA193230R1000	10	0.22
3P+N+E							
5	Red	346-415	50 and 60	416RAU6 *	2CMA193235R1000	10	0.24



32 A, IP 44 Splashproof Enclosure in thermoplastic. Cable area 2.5 - 10 mm².

Easy
& Safe

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	232RAU4	2CMA193265R1000	10	0.25
3	Blue	200-250	50 and 60	232RAU6 *	2CMA193266R1000	10	0.25
3P+E							
4	Black	600-690	50 and 60	332RAU5	2CMA193273R1000	10	0.26
4	Red	380-415	50 and 60	332RAU6 *	2CMA193274R1000	10	0.26
4	Black	480-500	50 and 60	332RAU7	2CMA193275R1000	10	0.26
4	Blue	200-250	50 and 60	332RAU9	2CMA193276R1000	10	0.26
3P+N+E							
5	Red	346-415	50 and 60	432RAU6 *	2CMA193283R1000	10	0.28



63 A, IP 44 Splashproof Enclosure in thermoplastic. Cable area 6 - 25 mm².

Tough
& Safe

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	263RAU4	2CMA167406R1000	1	0.60
3	Blue	200-250	50 and 60	263RAU6	2CMA167408R1000	1	0.60
3P+E							
4	Black	600-690	50 and 60	363RAU5	2CMA167416R1000	1	0.63
4	Red	380-415	50 and 60	363RAU6	2CMA167418R1000	1	0.63
4	Black	480-500	50 and 60	363RAU7	2CMA167420R1000	1	0.63
4	Blue	200-250	50 and 60	363RAU9	2CMA167422R1000	1	0.63
3P+N+E							
5	Red	346-415	50 and 60	463RAU6 *	2CMA167430R1000	1	0.69

*) Indicates standard product.

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Panel mounted socket outlets and inlets

Outlets unified angled flange



16 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable area 1.5 - 4 mm².



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	216RAU1W	2CMA167002R1000	1	0.12
3	Grey	>50-250	DC	216RAU3W	2CMA166992R1000	1	0.12
3	Yellow	100-130	50 and 60	216RAU4W *	2CMA166994R1000	1	0.12
3	Blue	200-250	50 and 60	216RAU6W *	2CMA166996R1000	1	0.12
3	Red	380-415	50 and 60	216RAU9W	2CMA166998R1000	1	0.12
3	Grey	transf	50 and 60	216RAU12W	2CMA167000R1000	1	0.12
3P+E							
4	Grey		AC	316RAU1W	2CMA167022R1000	1	0.15
4	Green	>50	>300-500	316RAU2W	2CMA167004R1000	1	0.15
4	Grey	380/440	50/60	316RAU3W	2CMA167006R1000	1	0.15
4	Yellow	100-130	50 and 60	316RAU4W	2CMA167008R1000	1	0.15
4	Black	600-690	50 and 60	316RAU5W	2CMA167010R1000	1	0.15
4	Red	380-415	50 and 60	316RAU6W *	2CMA167012R1000	1	0.15
4	Black	480-500	50 and 60	316RAU7W	2CMA167014R1000	1	0.15
4	Blue	200-250	50 and 60	316RAU9W	2CMA167016R1000	1	0.15
4	Green	>50	100-300	316RAU10W	2CMA167018R1000	1	0.15
4	Red	440-460	60	316RAU11W	2CMA167020R1000	1	0.15
3P+N+E							
5	Grey		AC	416RAU1W	2CMA167038R1000	1	0.18
5	Green	>50	>300-500	416RAU2W	2CMA167024R1000	1	0.18
5	Grey	380/440	50/60	416RAU3W	2CMA167026R1000	1	0.18
5	Yellow	100-130	50 and 60	416RAU4W	2CMA167028R1000	1	0.18
5	Red	346-415	50 and 60	416RAU6W *	2CMA167030R1000	1	0.18
5	Black	480-500	50 and 60	416RAU7W	2CMA167032R1000	1	0.18
5	Blue	208-250	50 and 60	416RAU9W	2CMA167034R1000	1	0.18
5	Red	440-460	60	416RAU11W *	2CMA167036R1000	1	0.18



32 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable area 2.5 - 10 mm².



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	232RAU1W	2CMA166954R1000	1	0.19
3	Yellow	100-130	50 and 60	232RAU4W	2CMA166946R1000	1	0.19
3	Blue	200-250	50 and 60	232RAU6W *	2CMA166948R1000	1	0.19
3	Red	380-415	50 and 60	232RAU9W	2CMA166950R1000	1	0.19
3	Grey	transf	50 and 60	232RAU12W	2CMA166952R1000	1	0.19
3P+E							
4	Grey		AC	332RAU1W	2CMA166974R1000	1	0.21
4	Green	>50	>300-500	332RAU2W	2CMA166956R1000	1	0.21
4	Grey	380/440	50/60	332RAU3W	2CMA166958R1000	1	0.21
4	Yellow	100-130	50 and 60	332RAU4W	2CMA166960R1000	1	0.21
4	Black	600-690	50 and 60	332RAU5W	2CMA166962R1000	1	0.21
4	Red	380-415	50 and 60	332RAU6W *	2CMA166964R1000	1	0.21
4	Black	480-500	50 and 60	332RAU7W	2CMA166966R1000	1	0.21
4	Blue	200-250	50 and 60	332RAU9W	2CMA166968R1000	1	0.21
4	Green	>50	100-300	332RAU10W	2CMA166970R1000	1	0.21
4	Red	440-460	60	332RAU11W	2CMA166972R1000	1	0.21
3P+N+E							
5	Grey		AC	432RAU1W	2CMA166990R1000	1	0.26
5	Green	>50	>300-500	432RAU2W	2CMA166976R1000	1	0.26
5	Grey	380/440	50/60	432RAU3W	2CMA166978R1000	1	0.26
5	Yellow	100-130	50 and 60	432RAU4W	2CMA166980R1000	1	0.26
5	Red	346-415	50 and 60	432RAU6W *	2CMA166982R1000	1	0.26
5	Black	480-500	50 and 60	432RAU7W *	2CMA166984R1000	1	0.26
5	Blue	208-250	50 and 60	432RAU9W	2CMA166986R1000	1	0.26
5	Red	440-460	60	432RAU11W	2CMA166988R1000	1	0.26

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* Indicates standard product.
- Delivered with flange gasket.

Panel mounted socket outlets and inlets

Outlets unified angled flange



63 A, IP 67 Watertight
Enclosure in thermoplastic polyester (PBT). Cable area 6 - 25 mm².

Tough
& Safe

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	263RAU1W	2CMA167446R1000	1	0.60
3	Yellow	100-130	50 and 60	263RAU4W	2CMA167440R1000	1	0.60
3	Blue	200-250	50 and 60	263RAU6W	2CMA167442R1000	1	0.60
3	Red	380-415	50 and 60	263RAU9W	2CMA167444R1000	1	0.60
3P+E							
4	Grey		AC	363RAU1W	2CMA167460R1000	1	0.63
4	Yellow	100-130	50 and 60	363RAU4W	2CMA167448R1000	1	0.63
4	Black	600-690	50 and 60	363RAU5W	2CMA167450R1000	1	0.63
4	Red	380-415	50 and 60	363RAU6W	2CMA167452R1000	1	0.63
4	Black	480-500	50 and 60	363RAU7W	2CMA167454R1000	1	0.63
4	Blue	200-250	50 and 60	363RAU9W	2CMA167456R1000	1	0.63
4	Red	440-460	60	363RAU11W	2CMA167458R1000	1	0.63
3P+N+E							
5	Grey		AC	463RAU1W	2CMA167472R1000	1	0.69
5	Yellow	100-130	50 and 60	463RAU4W	2CMA167462R1000	1	0.69
5	Red	346-415	50 and 60	463RAU6W *	2CMA167464R1000	1	0.69
5	Black	480-500	50 and 60	463RAU7W	2CMA167466R1000	1	0.69
5	Blue	208-250	50 and 60	463RAU9W	2CMA167468R1000	1	0.69
5	Red	440-460	60	463RAU11W	2CMA167470R1000	1	0.69

*) Indicates standard product.
- Delivered with flange gasket.

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Panel mounted socket outlets and inlets

Inlets straight flange



16 A, IP 44 Splashproof

Enclosure in thermoplastic. Cable area 1.5 - 4 mm².



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Blue	200-250	50 and 60	216B6 *	2CMA193338R1000	10	0.10
3P+E							
4	Black	600-690	50 and 60	316B5	2CMA193345R1000	10	0.13
4	Red	380-415	50 and 60	316B6	2CMA193346R1000	10	0.13
4	Blue	200-250	50 and 60	316B9	2CMA193348R1000	10	0.13
3P+N+E							
5	Red	346-415	50 and 60	416B6 *	2CMA193355R1000	10	0.14



16 A, IP 44 Splashproof

Enclosure in thermoplastic. Cable area 1.5 - 4 mm².



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
3P+N+E							
5	Red	346-415	50 and 60	416BU6 *	2CMA193468R1000	10	0.14



32 A, IP 44 Splashproof

Enclosure in thermoplastic. Cable area 2.5 - 10 mm².



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Blue	200-250	50 and 60	232BU6 *	2CMA193434R1000	10	0.15
3P+E							
4	Black	600-690	50 and 60	332BU5	2CMA193441R1000	10	0.17
4	Red	380-415	50 and 60	332BU6 *	2CMA193442R1000	10	0.17
4	Blue	200-250	50 and 60	332BU9	2CMA193444R1000	10	0.17
3P+N+E							
5	Red	346-415	50 and 60	432BU6 *	2CMA193451R1000	10	0.19



63 A, IP 44 Splashproof

Enclosure in thermoplastic polyester (PBT). Cable area 6 - 25 mm².



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Blue	200-250	50 and 60	263BU6	2CMA167212R1000	1	0.50
3P+E							
4	Black	600-690	50 and 60	363BU5	2CMA167220R1000	1	0.55
4	Red	380-415	50 and 60	363BU6	2CMA167222R1000	1	0.55
4	Blue	200-250	50 and 60	363BU9	2CMA167226R1000	1	0.55
3P+N+E							
5	Red	346-415	50 and 60	463BU6 *	2CMA167234R1000	1	0.60

*) Indicates standard product.

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Panel mounted socket outlets and inlets

Inlets straight flange



63 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable area 6 - 25 mm².



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	263BU1W	2CMA168106R1000	1	0.50
3	Yellow	100-130	50 and 60	263BU4W	2CMA168103R1000	1	0.50
3	Blue	200-250	50 and 60	263BU6W	2CMA168104R1000	1	0.50
3	Red	380-415	50 and 60	263BU9W	2CMA168105R1000	1	0.50
3P+E							
4	Grey		AC	363BU1W	2CMA168113R1000	1	0.55
4	Yellow	100-130	50 and 60	363BU4W	2CMA168107R1000	1	0.55
4	Black	600-690	50 and 60	363BU5W	2CMA168108R1000	1	0.55
4	Red	380-415	50 and 60	363BU6W	2CMA168109R1000	1	0.55
4	Black	480-500	50 and 60	363BU7W	2CMA168110R1000	1	0.55
4	Blue	200-250	50 and 60	363BU9W	2CMA168111R1000	1	0.55
4	Red	440-460	60	363BU11W	2CMA168112R1000	1	0.55
3P+N+E							
5	Grey		AC	463BU1W	2CMA168119R1000	1	0.60
5	Yellow	100-130	50 and 60	463BU4W	2CMA168114R1000	1	0.60
5	Red	346-415	50 and 60	463BU6W	2CMA168115R1000	1	0.60
5	Black	480-500	50 and 60	463BU7W	2CMA168116R1000	1	0.60
5	Blue	208-250	50 and 60	463BU9W	2CMA168117R1000	1	0.60
5	Red	440-460	60	463BU11W	2CMA168118R1000	1	0.60



125 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable area 16 - 70 mm².



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	2125BU1W	2CMA167196R1000	1	0.78
3	Yellow	100-130	50 and 60	2125BU4W	2CMA167194R1000	1	0.78
3	Blue	200-250	50 and 60	2125BU6W	2CMA167195R1000	1	0.78
3P+E							
4	Grey		AC	3125BU1W	2CMA167202R1000	1	0.84
4	Yellow	100-130	50 and 60	3125BU4W	2CMA167197R1000	1	0.84
4	Red	380-415	50 and 60	3125BU6W	2CMA167198R1000	1	0.84
4	Black	480-500	50 and 60	3125BU7W	2CMA167199R1000	1	0.84
4	Blue	200-250	50 and 60	3125BU9W	2CMA167200R1000	1	0.84
4	Red	440-460	60	3125BU11W	2CMA167201R1000	1	0.84
3P+N+E							
5	Grey		AC	4125BU1W	2CMA167208R1000	1	0.96
5	Yellow	100-130	50 and 60	4125BU4W	2CMA167203R1000	1	0.96
5	Red	346-415	50 and 60	4125BU6W *	2CMA167204R1000	1	0.96
5	Black	480-500	50 and 60	4125BU7W	2CMA167205R1000	1	0.96
5	Blue	208-250	50 and 60	4125BU9W	2CMA167206R1000	1	0.96
5	Red	440-460	60	4125BU11W	2CMA167207R1000	1	0.96

*) Indicates standard product.
- Delivered with flange gasket.

- Accessories.....page 68
- Technical data.....page 80
- Dimensions.....page 81

Panel mounted socket outlets and inlets

Inlets angled flange



16 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable area 1.5 - 4 mm².



Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	216BAU1W	2CMA166684R1000	1	0.14
3	Grey	>50-250	DC	216BAU3W	2CMA166674R1000	1	0.14
3	Yellow	100-130	50 and 60	216BAU4W *	2CMA166676R1000	1	0.14
3	Blue	200-250	50 and 60	216BAU6W *	2CMA166678R1000	1	0.14
3	Red	380-415	50 and 60	216BAU9W	2CMA166680R1000	1	0.14
3	Grey	transf	50 and 60	216BAU12W	2CMA166682R1000	1	0.14
3P+E							
4	Grey		AC	316BAU1W	2CMA166704R1000	1	0.19
4	Green	>50	>300-500	316BAU2W	2CMA166686R1000	1	0.19
4	Grey	380/440	50/60	316BAU3W	2CMA166688R1000	1	0.19
4	Yellow	100-130	50 and 60	316BAU4W	2CMA166690R1000	1	0.19
4	Black	600-690	50 and 60	316BAU5W	2CMA166692R1000	1	0.19
4	Red	380-415	50 and 60	316BAU6W	2CMA166694R1000	1	0.19
4	Black	480-500	50 and 60	316BAU7W	2CMA166696R1000	1	0.19
4	Blue	200-250	50 and 60	316BAU9W	2CMA166698R1000	1	0.19
4	Green	>50	100-300	316BAU10W	2CMA166700R1000	1	0.19
4	Red	440-460	60	316BAU11W	2CMA166702R1000	1	0.19
3P+N+E							
5	Grey		AC	416BAU1W	2CMA166720R1000	1	0.21
5	Green	>50	>300-500	416BAU2W	2CMA166706R1000	1	0.21
5	Grey	380/440	50/60	416BAU3W	2CMA166708R1000	1	0.21
5	Yellow	100-130	50 and 60	416BAU4W	2CMA166710R1000	1	0.21
5	Red	346-415	50 and 60	416BAU6W *	2CMA166712R1000	1	0.21
5	Black	480-500	50 and 60	416BAU7W	2CMA166714R1000	1	0.21
5	Blue	208-250	50 and 60	416BAU9W	2CMA166716R1000	1	0.21
5	Red	440-460	60	416BAU11W	2CMA166718R1000	1	0.21



32 A, IP 67 Watertight

Enclosure in thermoplastic polyester (PBT). Cable area 2.5 - 10 mm².



Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Grey		AC	232BAU1W	2CMA166636R1000	1	0.22
3	Yellow	100-130	50 and 60	232BAU4W	2CMA166628R1000	1	0.22
3	Blue	200-250	50 and 60	232BAU6W	2CMA166630R1000	1	0.22
3	Red	380-415	50 and 60	232BAU9W	2CMA166632R1000	1	0.22
3	Grey	transf	50 and 60	232BAU12W	2CMA166634R1000	1	0.22
3P+E							
4	Grey		AC	332BAU1W	2CMA166656R1000	1	0.24
4	Green	>50	>300-500	332BAU2W	2CMA166638R1000	1	0.24
4	Grey	380/440	50/60	332BAU3W	2CMA166640R1000	1	0.24
4	Yellow	100-130	50 and 60	332BAU4W	2CMA166642R1000	1	0.24
4	Black	600-690	50 and 60	332BAU5W	2CMA166644R1000	1	0.24
4	Red	380-415	50 and 60	332BAU6W	2CMA166646R1000	1	0.24
4	Black	480-500	50 and 60	332BAU7W	2CMA166648R1000	1	0.24
4	Blue	200-250	50 and 60	332BAU9W	2CMA166650R1000	1	0.24
4	Green	>50	100-300	332BAU10W	2CMA166652R1000	1	0.24
4	Red	440-460	60	332BAU11W	2CMA166654R1000	1	0.24
3P+N+E							
5	Grey		AC	432BAU1W	2CMA166672R1000	1	0.26
5	Green	>50	>300-500	432BAU2W	2CMA166658R1000	1	0.26
5	Grey	380/440	50/60	432BAU3W	2CMA166660R1000	1	0.26
5	Yellow	100-130	50 and 60	432BAU4W	2CMA166662R1000	1	0.26
5	Red	346-415	50 and 60	432BAU6W	2CMA166664R1000	1	0.26
5	Black	480-500	50 and 60	432BAU7W	2CMA166666R1000	1	0.26
5	Blue	208-250	50 and 60	432BAU9W	2CMA166668R1000	1	0.26
5	Red	440-460	60	432BAU11W	2CMA166670R1000	1	0.26

- Accessories page 68
- Technical data page 80
- Dimensions page 81

*) Indicates standard product.
- Delivered with flange gasket.

Modular Combi



Modular Combi is a system consisting of compact units replacing outlets, that traditionally has been scattered around the walls. Modular Combi is a cost effective system with different types of outlets, RCDs and MCBs in one location. Modular Combi is very easy to install and, thanks to the solutions and design, it saves time and money.

The Modular Combi Range consists of two lines, one product line in plastic, the other one in metal. Common for them are among other features that you only need one feeding cable, it can be mounted with an already existing 4-wire as well as 5-wire cable and that the modules are easy to modify in the future for additional needs. Modular Combi can easily be customised for special applications.

Modular Combi Plastic



Operating voltage 230/400 V ~

Enclosure: Thermoplastic

Dimensions: According to table or customer order

Outlets: Combi Plastic is designed for different types of single phase domestic outlets and for IEC outlets up to and including 63 A. With or without mechanical interlocked IEC outlets.

Cable entry: 4 knock-outs at the top, suitable for 2 x Ø 40 mm and 2 x Ø 25 mm
At the bottom 3 x Ø 47 mm

Cable area: 2 x 16 mm² Cu. Designed for looping

Covers: For MCB/RCD, maximum 13 modules, 2 opened and knock-outs for the rest of the modules row. DIN-rail in bottom for terminals and MCB/RCDs. With a distance at the bottom to allow wiring behind the rail. The lid is pad lockable.

For 16 A, IP 44 Splashproof

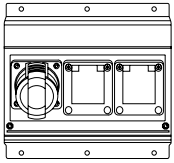


Socket outlet	RCD 30 mA	MCB	Type	Order Code	Weight kg/ea
Box size W x H x D: 250 x 170 x 160					
2 x 10/16 A	-	-	MP16	2CMA168999R1000	1.7
IEC 60309, 1 x 16 A, 3P+N+E	-	-			
Box size W x H x D: 250 x 300 x 160					
2 x 10/16 A	-	1P	MP16/1 *	2CMA168998R1000	2.0
IEC 60309, 1 x 16 A, 3P+N+E	-	3P			
2 x 10/16 A	-	1P	MP16/1MS	2CMA168981R1000	2.6
IEC 60309, 1 x 16 A, 3P+N+E	-	3P			
2 x 10/16 A	yes	-	MPR16 *	2CMA168997R1000	2.3
IEC 60309, 1 x 16 A, 3P+N+E	yes	3P			
Box size W x H x D: 250 x 430 x 160					
4 x 10/16 A	-	2 x 1P	MP16/3 *	2CMA168996R1000	3.1
IEC 60309, 3 x 16 A, 3P+N+E	-	2 x 3P			
4 x 10/16 A	yes	2 x 3P	MPR16/3	2CMA168995R1000	3.4
IEC 60309, 3 x 16 A, 3P+N+E	yes	2 x 3P			
2 x 10/16 A	yes	-	MPR16MS	2CMA168980R1000	3.1
IEC 60309, 1 x 16 A, 3P+N+E	yes	3P			
Box size W x H x D: 250 x 560 x 160					
10/16 A	yes	2 x 1P	MPR16/3MS	2CMA168982R1000	4.7
IEC 60309, 3 x 16 A, 3P+N+E	yes	2 x 3P			

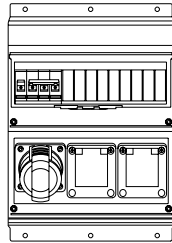
*) Indicates standard product.

Modular Combi Plastic

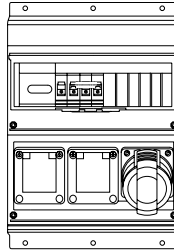
Front pictures



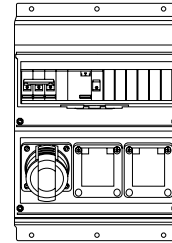
MP16



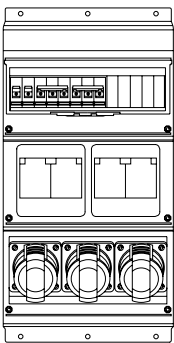
MP16/1



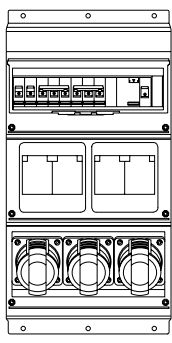
MP16/1MS



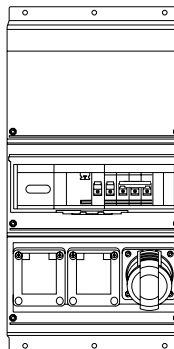
MPR16



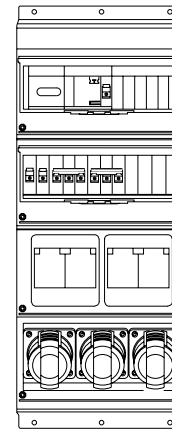
MP16/3



MPR16/3

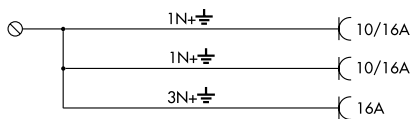


MPR16MS

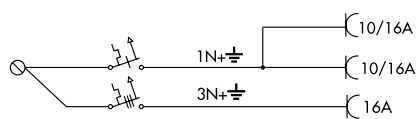


MPR16/3MS

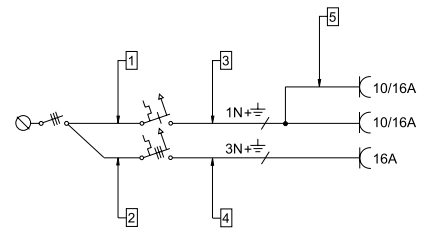
Wiring diagrams



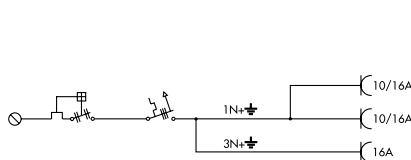
MP16



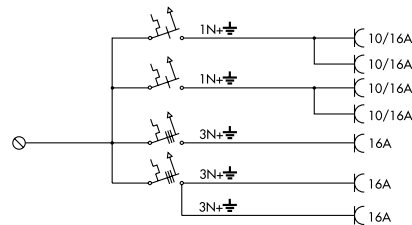
MP16/1



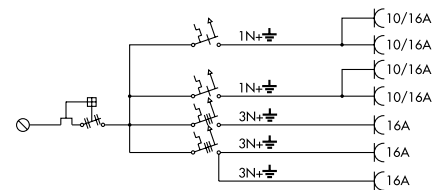
MP16/1MS



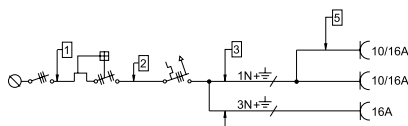
MPR16



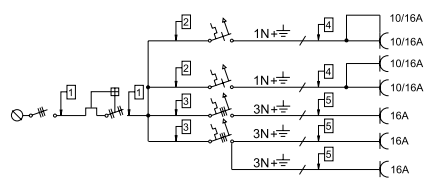
MP16/3



MPR16/3



MPR16MS



MPR16/3MS

Modular Combi Plastic



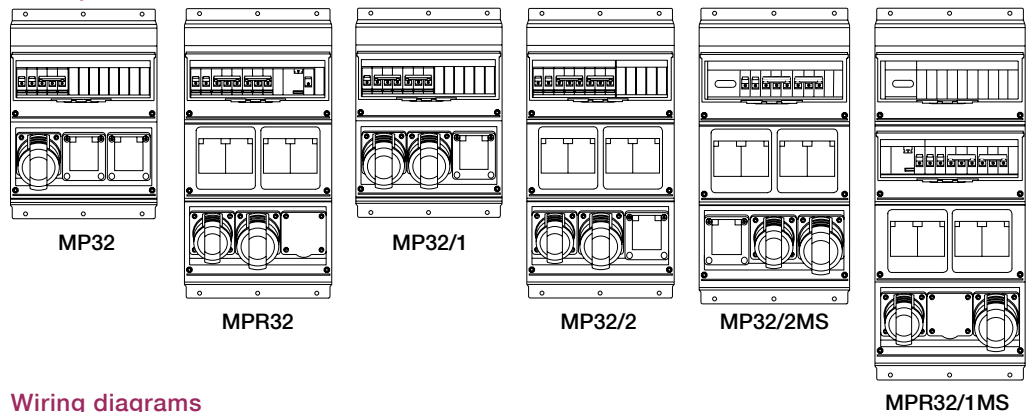
For 32 A, IP 44 Splashproof



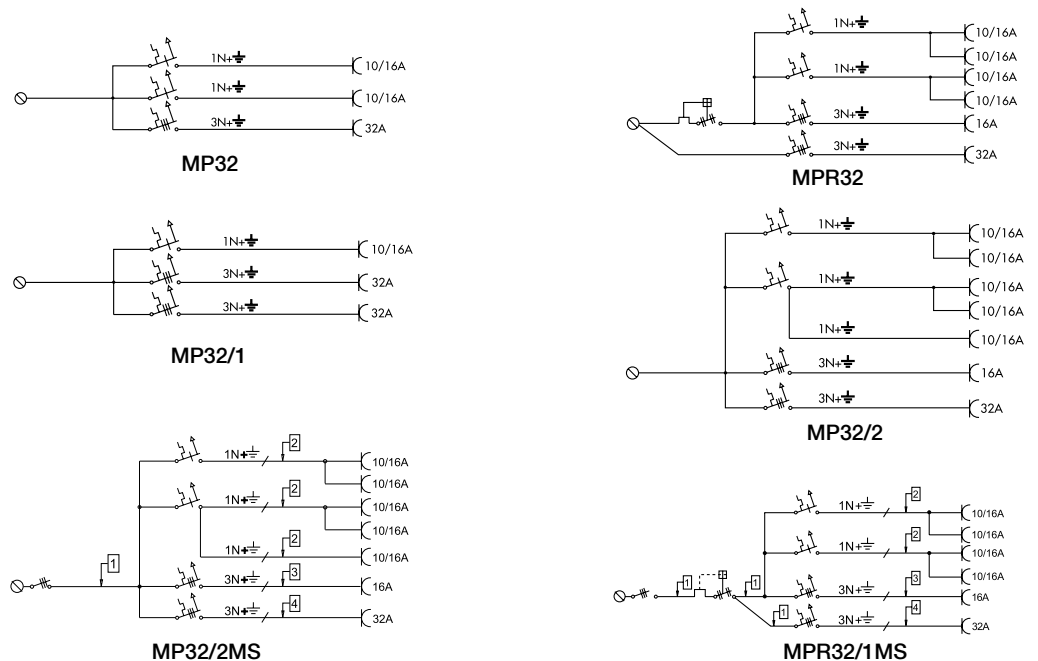
Socket outlet	RCD 30 mA	MCB	Type	Order Code	Weight kg/ea
Box size W x H x D: 250 x 300 x 160					
2 x 10/16 A IEC 60309, 1 x 32 A, 3P+N+E	-	2 x 1P 3P	MP32	2CMA168994R1000	1.7
4 x 10/16 A IEC 60309, 1 x 16 A, 3P+N+E IEC 60309, 1 x 32 A, 3P+N+E	yes yes	2 x 1P 3P	MPR32 *	2CMA168991R1000	4.0
2 x 10/16 A IEC 60309, 1 x 32 A, 3P+N+E	-	1P 2 x 3P	MP32/1	2CMA168993R1000	2.6
Box size W x H x D: 250 x 430 x 160					
5 x 10/16 A IEC 60309, 1 x 16 A, 3P+N+E IEC 60309, 1 x 32 A, 3P+N+E	- -	2 x 1P 3P 3P	MP32/2	2CMA168992R1000	3.1
5 x 10/16 A IEC 60309, 1 x 16 A, 3P+N+E IEC 60309, 1 x 32 A, 3P+N+E	- -	2 x 1P 3P 3P	MP32/2MS	2CMA168983R1000	3.3
Box size W x H x D: 250 x 560 x 160					
4 x 10/16 A IEC 60309, 1 x 16 A, 3P+N+E IEC 60309, 1 x 32 A, 3P+N+E	yes yes yes	2 x 1P 3P 3P	MPR32/1MS	2CMA168984R1000	4.8

*1) Indicates standard product.

Front pictures



Wiring diagrams



Modular Combi Plastic



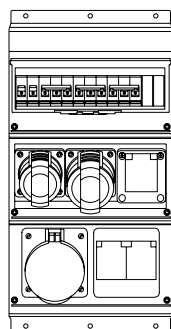
For 63 A, IP 44 Splashproof



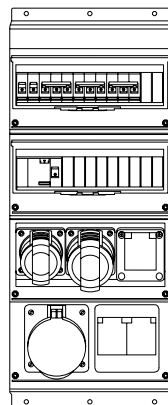
Socket outlet	RCD 30 mA	MCB	Type	Order Code	Weight kg/ea
Box size W x H x D: 250 x 430 x 160					
3 x 10/16 A	-	2 x 1P	MP63 *	2CMA168990R1000	4.0
IEC 60309, 1 x 16 A, 3P+N+E	-	3P			
IEC 60309, 1 x 32 A, 3P+N+E	-	3P			
IEC 60309, 1 x 63 A, 3P+N+E	-	-			
Box size W x H x D: 250 x 560 x 160					
3 x 10/16 A	yes	2 x 1P	MPR63	2CMA168989R1000	5.4
IEC 60309, 1 x 16 A, 3P+N+E	yes	3P			
IEC 60309, 1 x 32 A, 3P+N+E	-	3P			
IEC 60309, 1 x 63 A, 3P+N+E	-	3P			
3 x 10/16 A	yes	2 x 1P	MPR63/1 *	2CMA168988R1000	5.4
IEC 60309, 1 x 16 A, 3P+N+E	yes	3P			
IEC 60309, 1 x 32 A, 3P+N+E	yes	3P			
IEC 60309, 1 x 63 A, 3P+N+E	yes	3P			
3 x 10/16 A	yes	2 x 1P	MPR63/1MS	2CMA168985R1000	5.7
IEC 60309, 1 x 16 A, 3P+N+E	yes	3P			
IEC 60309, 1 x 32 A, 3P+N+E	yes	3P			
IEC 60309, 1 x 63 A, 3P+N+E	yes	3P			

* Indicates standard product.

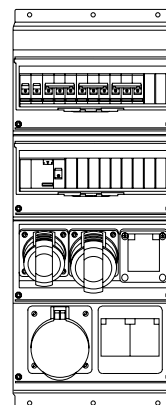
Front pictures



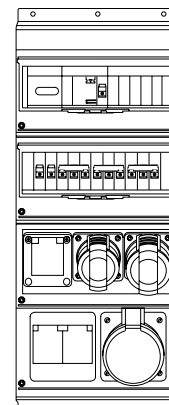
MP63



MPR63

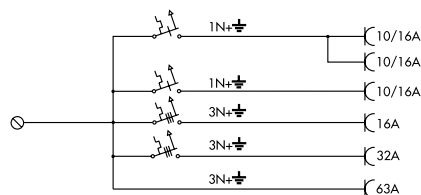


MPR63/1

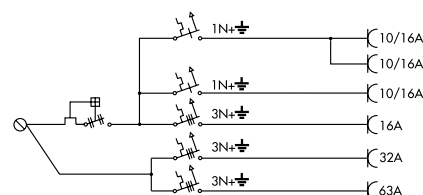


MPR63/1MS

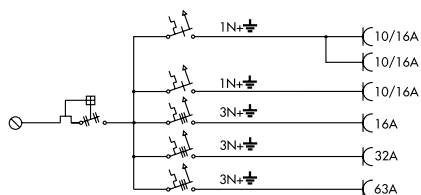
Wiring diagrams



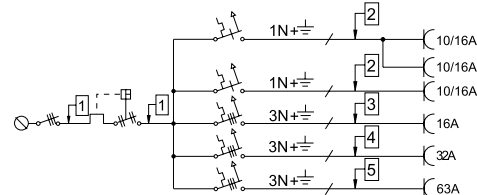
MP63



MPR63



MPR63/1



MPR63/1MS

Modular Combi Plastic



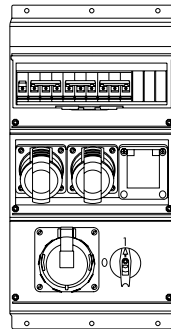
For 32 A, IP 44 Splashproof



Socket outlet	RCD 30 mA	MCB	Type	Order Code	Weight kg/ea
Box size W x H x D: 250 x 430 x 160					
1 x 10/16 A	-	1P	MP32/SW1	2CMA168987R1000	4.1
IEC 60309, 2 x 16 A, 3P+N+E	-	2 x 3P			
IEC 60309, 1 x 32 A, 3P+N+E ¹⁾	-	3P			

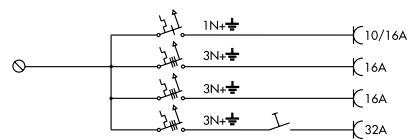
¹⁾ Mechanically interlocked

Front picture



MP32/SW1

Wiring diagram



MP32/SW1

Modular Combi Metal



Operating voltage 230/400 V ~

Enclosure: Aluminium with front plates of galvanised steel.

Dimensions: According to table or customer order

Outlets: Combi Metal is designed for different types of single phase domestic outlets and for IEC outlets up to and including 63 A. With or without mechanical interlocked IEC outlets.

Cable entry: FL21 flange openings at top and bottom

Cable area: 2 x 16 mm² Cu. Designed for looping

Covers: For MCB/RCD, maximum 12 modules. DIN-rail in bottom for terminals and MCB/RCDs. With a distance at the bottom to allow wiring behind the rail. The lid is pad lockable.

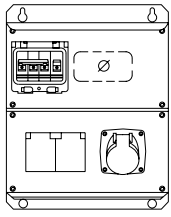
For 16 A, IP 44 Splashproof



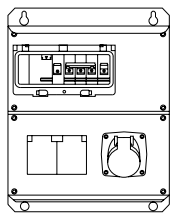
Socket outlet	RCD 30 mA	MCB	Type	Order Code	Weight kg/ea
Box size W x H x D: 250 x 314 x 172					
2 x 10/16 A IEC 60309, 1 x 16 A, 3P+N+E	-	1P 3P	M16/1	2CMA179348R1000	3.80
2 x 10/16 A IEC 60309, 1 x 16 A, 3P+N+E	yes yes	1P 3P	M16/2JFB	2CMA179349R1000	4.55
Box size W x H x D: 250 x 574 x 179					
4 x 10/16 A IEC 60309, 1 x 16 A, 3P+N+E IEC 60309, 1 x 32 A, 3P+N+E	-	2 x 1P 3P 3P	M32/1	2CMA179350R1000	6.75
4 x 10/16 A IEC 60309, 1 x 16 A, 3P+N+E IEC 60309, 1 x 32 A, 3P+N+E	-	2 x 1P 3P 3P	M32/2JFB	2CMA179351R1000	7.35
Box size W x H x D: 250 x 704 x 188					
4 x 10/16 A IEC 60309, 1 x 16 A, 3P+N+E IEC 60309, 1 x 32 A, 3P+N+E IEC 60309, 1 x 63 A, 3P+N+E	-	2 x 1P 3P 3P 3P	M63/1	2CMA179352R1000	8.95
4 x 10/16 A IEC 60309, 1 x 16 A, 3P+N+E IEC 60309, 1 x 32 A, 3P+N+E IEC 60309, 1 x 63 A, 3P+N+E	-	2 x 1P 3P 3P 3P	M63/2JFB	2CMA179353R1000	9.55

Modular Combi Metal

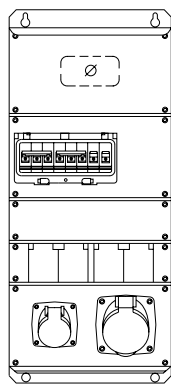
Front pictures



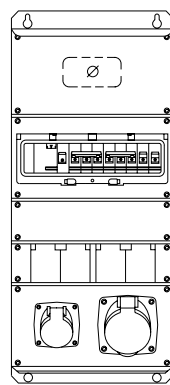
M16/1



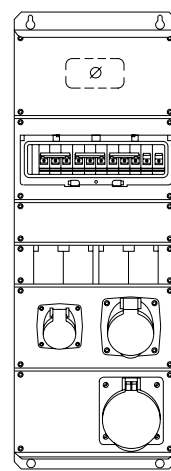
M16/2JFB



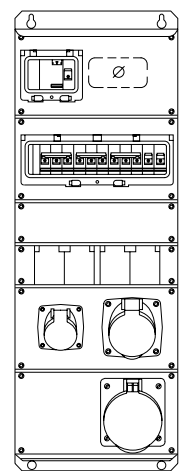
M32/1



M32/2JFB

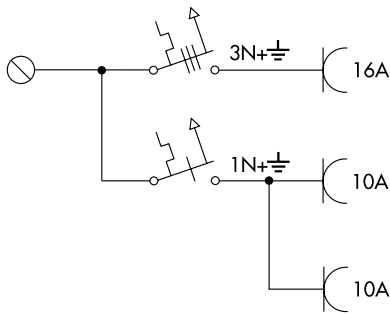


M63/1

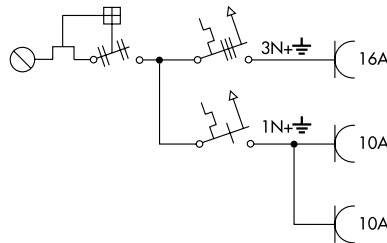


M63/2JFB

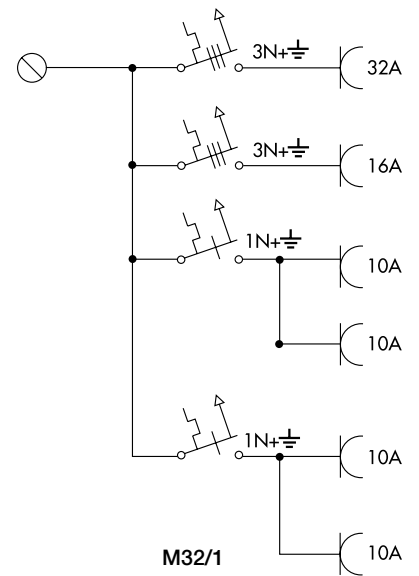
Wiring diagrams



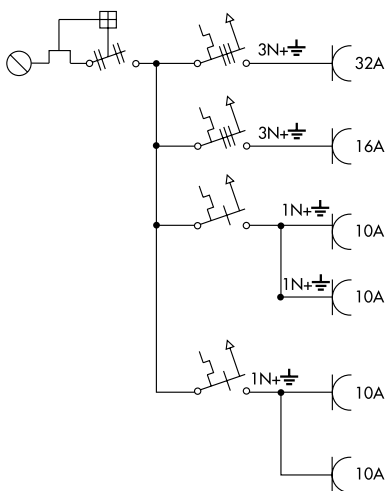
M16/1



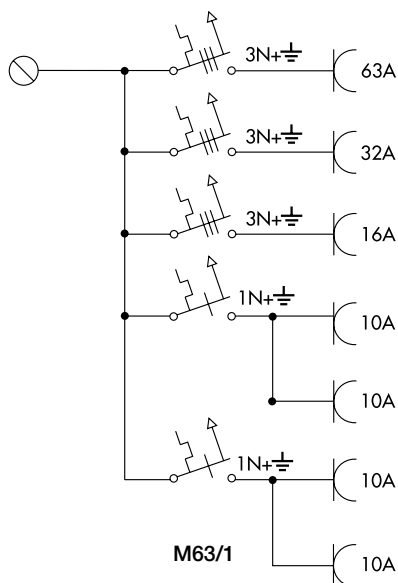
M16/2JFB



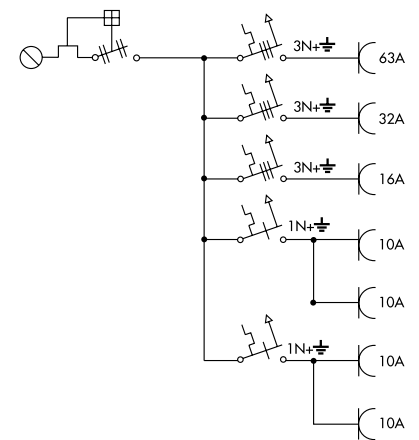
M32/1



M32/2JFB



M63/1



M63/2JFB

ATEX Plugs & Sockets

ATEX = "ATmosphere EXplosive"



Products for use in explosive atmospheres – ATEX
ABB offers Plugs & Sockets for use within dust explosive atmospheres, Category 3 for use in Zone 22. Here is a simple guide to ATEX, its meaning and how to choose the right products for your application.

What is ATEX ?

ATEX is a European Directive (94/9/EC) valid for products to be used within an explosive atmosphere. The ATEX directive has been in force throughout the European Union since 1 July 2003, replacing the existing different national and European legislation relating to explosive atmospheres.

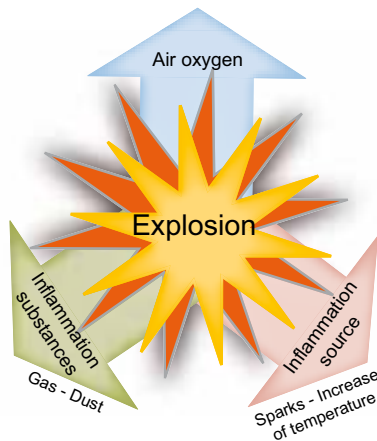
ATEX Plugs & Sockets

Why ATEX ?

An ambience with the potential to become an explosive atmosphere during operating conditions and/or under the influence of the environment is defined as a potentially explosive atmosphere. Products covered by directive 94/9/EC are defined as intended for use in potentially explosive atmospheres.

Directive 94/9/EC defines an explosive atmosphere as a mixture of:

- flammable substances gases, vapors, mists or dusts
- with air
- under specific atmospheric conditions
- in which, after ignition has occurred, combustion spreads to the flammable mixture



Declaration of conformity

The declaration is only valid in conjunction with the instructions contained in the installation manual relating to the safe use of the product throughout its service life.

The certificate is invalidated if the instructions are found not to have been adhered to during operation of the product.

Meaning of ATEX information of the label

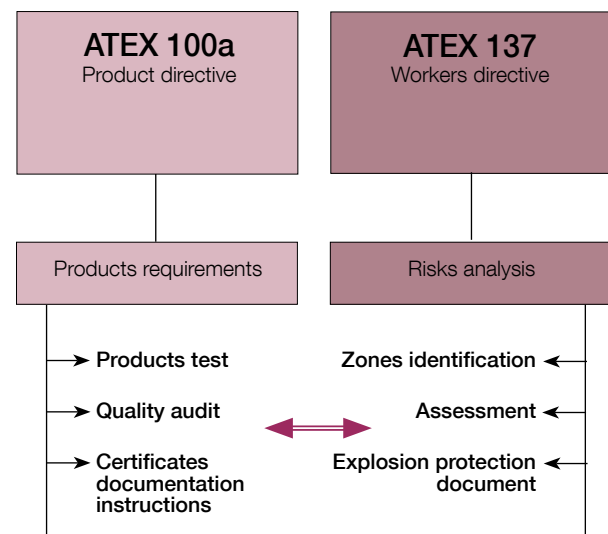
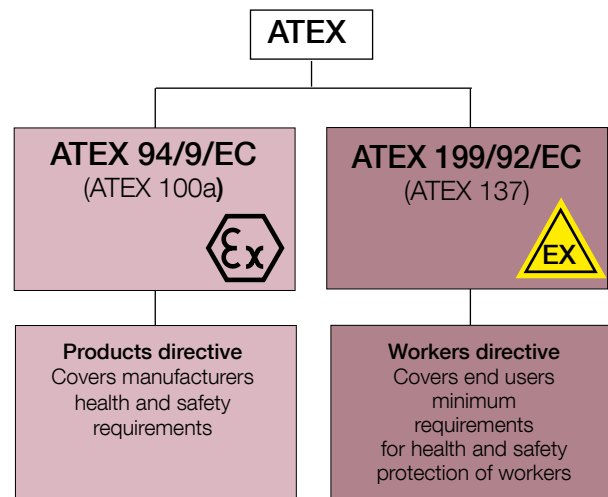
	States that the product fulfils the ATEX directive
II	Equipment group (II = remaining risk areas)
3 D	Equipment category (can be used i zone 22)
T 65°C	Max surface temperature
X	Conditions for installation and use, see instruction sheet

Harmonised European ATEX standard

The European Union has adopted two harmonized directives in the field of health and safety. The directives are known as ATEX 100a and ATEX 137.

Directive ATEX 100a (94/9/EC) lays down minimum safety requirements for products intended for use in potentially explosive atmospheres in European Union member states.

Directive ATEX 137 (99/92/EC) defines minimum requirements for health and safety at the workplace, for working conditions and for the handling of products and materials in potentially explosive atmospheres. This directive divides the workplace into zones and defines criteria by which products are categorized within these zones.



ATEX Plugs & Sockets

Levels of protection for the various equipment categories

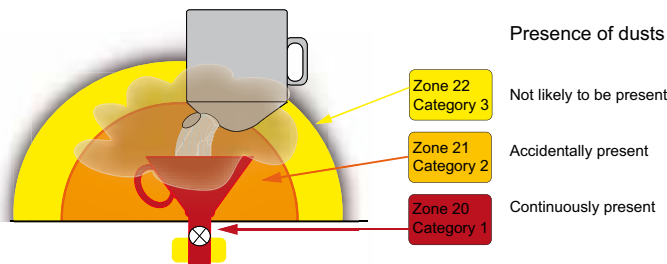
Level of protection	Category		Performance of protection	Conditions of operation
	Group I	Group II		
Very High	M1		Two independent means of protection or safe even when two faults occur independently of each other.	Equipment remains energized and functioning when explosive atmosphere present.
Very high		1	Two independent means of protection or safe even when two faults occur independently of each other.	Equipment remains energized and functioning in Zones 0, 1, 2 (G) and/or 20, 21, 22 (D).
High	M2		Suitable for normal operation and severe operating conditions. If applicable also suitable for frequently occurring disturbances or for faults which are normally taken into account.	Equipment de-energized when explosive atmosphere is recognised.
High		2	Suitable for normal operation and frequently occurring disturbances or equipment where faults are normally taken into account.	Equipment remains energized and functioning in zones 1, 2 (G) and/or 21, 22 (D)
Normal		3	Suitable for normal operation.	Equipment remains energized and functioning in Zone 2 (G) and/or 22 (D).

Group I

Equipment intended for use in underground parts of mines as well as those parts of surface installations of such mines likely to be endangered by flammable vapors and/or flammable dusts.

Group II

Equipment intended for use in other places exposed to explosive atmospheres.



The table describes the zones in an installation where there is a potential for explosive atmospheres. The owner of the installation must analyze and assess the area in which the explosive gas/dust mixture may occur, and if necessary must divide it into zones. This process of zoning then allows the correct plant and equipment to be selected for use in the area. The various equipment categories must be capable of operating in accordance with the manufacturer's operating specifications at defined levels of protection.

Zones		Presence of potentially explosive atmosphere	Type of risk
Gas	Dust		
G	D		
0	20	Present continuously or long periods	Permanent
1	21	Likely to occur in normal occasionally	Potential
2	22	Not likely to occur in normal operation	Minimal

Selection of category of Ex-equipment for use in zone according to the ATEX-directive

Atmosphere	Category	Zone
G (Gas)	1	0, 1, 2
	2	1, 2
	3	2
D (Dust)	1	20, 21, 22
	2	21, 22
	3	22

ATEX Plugs & Sockets

Plugs



16 A, IP 67 Watertight

Ex, II 3D. Enclosure in thermoplastic polyester (PBT). Cable entry with compression gland, Cable area 1 - 2.5 mm²

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	■ Grey	200-250	50 and 60	216P6Ex3D	2CMA163700R1000	1	0.18
3P+E							
4	■ Grey	380-415	50 and 60	316P6Ex3D	2CMA163701R1000	1	0.24
3P+N+E							
5	■ Grey	346-415	50 and 60	416P6Ex3D	2CMA163702R1000	1	0.26

32 A, IP 67 Watertight

Ex, II 3D. Enclosure in thermoplastic polyester (PBT). Cable entry with compression gland, Cable area 2.5 - 6 mm²

Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	■ Grey	200-250	50 and 60	232P6Ex3D	2CMA163705R1000	1	0.28
3P+E							
4	■ Grey	380-415	50 and 60	332P6Ex3D	2CMA163706R1000	1	0.30
3P+N+E							
5	■ Grey	346-415	50 and 60	432P6Ex3D	2CMA163707R1000	1	0.32



63 A, IP 67 Watertight

Ex, II 3D. Enclosure in thermoplastic polyester (PBT). Cable entry with compression gland, internal and external cable clamp. Cable area 4 - 16 mm²

Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	■ Grey	200-250	50 and 60	263P6Ex3D	2CMA163710R1000	1	0.65
3P+E							
4	■ Grey	380-415	50 and 60	363P6Ex3D	2CMA163711R1000	1	0.70
3P+N+E							
5	■ Grey	346-415	50 and 60	463P6Ex3D	2CMA163712R1000	1	0.75

125 A, IP 67 Watertight

Ex, II 3D. Enclosure in thermoplastic polyester (PBT). Cable entry with compression gland, internal and external cable clamp. Cable area 16 - 50 mm²

Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	■ Grey	200-250	50 and 60	2125P6Ex3D	2CMA163715R1000	1	1.20
3P+E							
4	■ Grey	380-415	50 and 60	3125P6Ex3D	2CMA163716R1000	1	1.23
3P+N+E							
5	■ Grey	346-415	50 and 60	4125P6Ex3D	2CMA163717R1000	1	1.35

ATEX Plugs & Sockets

Switched interlocked socket outlets



16 A, IP 67 Watertight

Ex, II 3D. Enclosure in thermoplastic polyester (PBT). Cable entry with knockouts
 \varnothing 25 + 32 mm on top and drill marks on bottom. Cable area 1.5 - 4 mm²

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	■ Grey	200-250	50 and 60	216MVS6Ex3D	2CMA163720R1000	1	1.75
3P+E							
4	■ Grey	380-415	50 and 60	316MVS6Ex3D	2CMA163721R1000	1	1.79
3P+N+E							
5	■ Grey	346-415	50 and 60	416MVS6Ex3D	2CMA163722R1000	1	1.83

32 A, IP 67 Watertight

Ex, II 3D. Enclosure in thermoplastic polyester (PBT). Cable entry with knockouts
 \varnothing 25 + 32 mm on top and drill marks on bottom. Cable area 2.5 - 10 mm²

Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	■ Grey	200-250	50 and 60	232MVS6Ex3D	2CMA163725R1000	1	1.87
3P+E							
4	■ Grey	380-415	50 and 60	332MVS6Ex3D	2CMA163726R1000	1	1.91
3P+N+E							
5	■ Grey	346-415	50 and 60	432MVS6Ex3D	2CMA163727R1000	1	1.95

ATEX Plugs & Sockets

Switched interlocked socket outlets



63 A, IP 67 Watertight

Ex, II 3D. Enclosure in thermoplastic polyester (PBT). Cable entry with knockouts Ø 40 + 50 mm on top and drill marks on bottom. Cable area 6 - 25 mm²

Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	■ Grey	200-250	50 and 60	263MVS6Ex3D	2CMA163730R1000	1	3.50
3P+E							
4	■ Grey	380-415	50 and 60	363MVS6Ex3D	2CMA163731R1000	1	3.50
3P+N+E							
5	■ Grey	346-415	50 and 60	463MVS6Ex3D	2CMA163732R1000	1	3.60

125 A, IP 67 Watertight

Ex, II 3D. Enclosure in thermoplastic polyester (PBT). Cable entry with knockouts Ø 40 + 50 mm on top and drill marks on bottom. Cable area 16 - 70 mm²

Terminals/ Poles	Color Code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	■ Grey	200-250	50 and 60	2125MVS6Ex3D **	2CMA163735R1000	1	4.40
3P+E							
4	■ Grey	380-415	50 and 60	3125MVS6Ex3D **	2CMA163736R1000	1	4.40
3P+N+E							
5	■ Grey	346-415	50 and 60	4125MVS6Ex3D **	2CMA163737R1000	1	4.50

**) Long phase sleeves, pilot sleeve.

Additional products & Accessories



A wide range of special products designed to give you better flexibility and connect different type of devices. Apart from adaptors and building site connections boxes there is also a section of spare parts and accessories to upgrade your existing ABB products.

Additional products & Accessories

Adaptors



Three way adaptors, 16 A, IP 44 Splashproof Enclosure in thermoplastic, one inlet and three socket-outlets

Easy & Safe

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P+E							
3	Yellow	100-130	50 and 60	216T4	2CMA168120R1000	1	0.64
3	Blue	200-250	50 and 60	216T6 *	2CMA168121R1000	1	0.64
3P+E							
4	Red	380-415	50 and 60	316T6 *	2CMA168122R1000	1	0.78
4	Blue	200-250	50 and 60	316T9	2CMA168123R1000	1	0.78
3P+N+E							
5	Red	346-415	50 and 60	416T6 *	2CMA168124R1000	1	0.89



Three way adaptor, 16 A, IP 44 Splashproof Enclosure in thermoplastic, one inlet, one socket-outlet and two socket-outlets Schuko 230 V

Easy & Safe

Description	Type	Order Code	Pack	Weight kg/ea
3P+N+E				
Inlet 1 x IEC 16 A, 400 V Outlet 2 x Schuko 230 V 1 x IEC 16 A, 400 V	416T6MIX *	2CMA170193R1000	1	1.00



Adaptors on cable, 16 A, IP 44 Splashproof

Easy & Safe

Description	Type	Order Code	Cable area	Pack	Length m
Adaptor, 3-ways. From IEC 230 V to Schuko 230 V.	216P6TRIO *	2CMA170186R1000	REVE 3G 1.5	1	1.50
Adaptor, 3-ways. From IEC 400 V to Schuko 230 V	416P6TRIO *	2CMA170185R1000	REVE 5G 1.5	1	1.00
Adaptor, 3-ways. From IEC 400 V 16A to 3 x IEC 400 V 16 A	416P6/216R6 *	2CMA170191R1000	REVE 5G 2.5	1	2.00
Adaptor, 3-ways. From IEC 400 V 16 A to 3 x IEC 400 V 16 A	416P6/416R6 *	2CMA170192R1000	REVE 5G 2.5	1	2.50
Adaptor, 3-ways. From IEC 400 V 16 A to 2 x Schuko 230 V + IEC 400 V 16 A	416P6/DUO+C *	2CMA170265R1000	REVE 5G 1.5	1	1.50



Adaptors, 10/16 A, IP 44 Splashproof Enclosure in thermoplastic polyester (PBT), one inlet IEC 16 A and one outlet 10/16 A (Schuko)

Easy & Safe

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack qty	Weight kg/ea
2P+E							
3	Blue	230	50 and 60	216Schuko *	2CMA170196R1000	10	0.14
3P+E							
4	Red	415/230	50 and 60	416Schuko *	2CMA170195R1000	10	0.18

*) Indicates standard product.

Additional products & Accessories

Phase sequense products

ABB's new range of phase shifter products offers a safe and quick solution to the problem with wrong phase sequense in an electrical installation.



Plug Shifter, 16 A, IP 44 Splashproof

Thermoplastic enclosure, Cable area / Connection area 1 - 2.5 mm²

Easy & Safe

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack qty	Weight kg/ea
Rated current 16 A							
3P+N+E							
5	■ Red	346-415	50 and 60	416PFV6 *	2CMA168131R1000	1	0.19



Surface Inlet Shifter, 16 A, IP 44 Splashproof

Thermoplastic enclosure, Cable area / Connection area 1.5 - 4 mm²

Easy & Safe

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack qty	Weight kg/ea
Rated current 16 A							
3P+N+E							
5	■ Red	346-415	50 and 60	416BSFV6	2CMA168169R1000	1	0.20



Panel Mounted Inlet Shifter, 16 A, IP 44 Splashproof

Thermoplastic enclosure, Cable area / Connection area 1.5 - 4 mm²

Easy & Safe

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack qty	Weight kg/ea
Rated current 16 A							
3P+N+E							
5	■ Red	346-415	50 and 60	416BUFV6	2CMA168159R1000	1	0.14



Phase sequence changers, 16 and 32 A, IP 44 Splashproof

Thermoplastic enclosure

Easy & Safe

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack qty	Weight kg/ea
Rated current 16 A							
3P+N+E							
5	■ Red	346-415	50 and 60	416FV6 *	2CMA168129R1000	10	0.40
Rated current 32 A							
3P+N+E							
5	■ Red	346-415	50 and 60	432FV6 *	2CMA168130R1000	10	0.60



Phase sequence testers, 16 and 32 A, IP 44 Splashproof

Thermoplastic enclosure

Easy & Safe

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack qty	Weight kg/ea
Rated current 16 A							
3P+N+E							
5	■ Red	346-415	50 and 60	416FP6 *	2CMA168541R1000	1	0.14
Rated current 32 A							
3P+N+E							
5	■ Red	346-415	50 and 60	432FP6	2CMA168542R1000	1	0.20

*) Indicates standard product.

Additional products & Accessories

Emergency power inlet



For connection of emergency power generators. Metal enclosure. Ingress protection rating IP 43. Inlet according to IEC 60 309-2, 3P+N+E, 6h, 400 V. Transfer switch according to IEC 60 947-3. Pilot indicator for returning power network voltage. Bottom flange size FL 13 (DRI 432-6 and DRI 463-6) or FL 21 (DRI 4125-6).

32 A, IP 43.

Cable area Cu 25 mm², Al 35 mm².

Terminals/ Poles	Color code	Voltage V	Type	Order code	Dimensions W H D (mm)	Pack qty	Weight kg/ea
3P+N+E							
5	■ Red	400	DRI 432-6 *	2CMA154098R1000	330 330 163	1	9.7

63 A, IP 43.

Cable area Cu 25 mm², Al 35 mm².

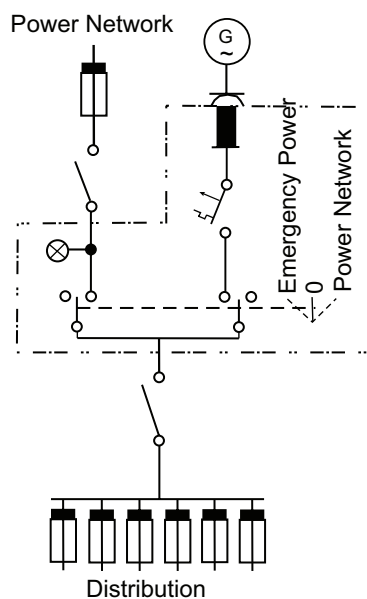
Terminals/ Poles	Color code	Voltage V	Type	Order code	Dimensions W H D (mm)	Pack qty	Weight kg/ea
3P+N+E							
5	■ Red	400	DRI 463-6 *	2CMA154099R1000	330 330 163	1	9.8

125 A, IP 43.

Cable area Cu 50 mm², Al 70 mm².

Terminals/ Poles	Color code	Voltage V	Type	Order code	Dimensions W H D (mm)	Pack qty	Weight kg/ea
3P+N+E							
5	■ Red	400	DRI 4125-6 *	2CMA154029R1000	330 495 293	1	13.0

*) Indicates standard product.



Additional products & Accessories

Building site connection units



BPC is a mobile outlet central used for building / construction sites.

It is tested and approved according to EN 60 439-4 which means that the enclosure and wiring can handle the everyday life on construction sites.

16 A, IP 44 Splashproof

Enclosure in thermoplastic polyester

Configuration	Type	Order code	Pack qty	Weight kg/ea
Inlet 16 A, 400 V Outlet: 2 x 16 A, 400 V 4 x 16 A Schuko 230 V with MCB 2+2 RCD 25 A 30 mA	BPC 16 *	2CMA170266R1000	1	3.20
Inlet 16 A, 400 V Outlet: 2 x 16 A, 400 V 4 x 16 A Schuko 230 V RCD 25 A 30 mA	BPC 16 US *	2CMA170267R1000	1	3.10

32 A, IP 44 Splashproof

Enclosure in thermoplastic polyester

Configuration	Type	Order code	Pack qty	Weight kg/ea
Inlet 32 A, 400 V Outlet: 1 x 32 A, 400 V, for looping 1 x 16 A, 400 V with MCB 4 x 16 A Schuko 230 V with MCB 2+2 16 A RCD 40 A 30 mA	BPC 32 *	2CMA170268R1000	1	3.40



Site connection units, 16 and 32 A, IP 44 Splashproof

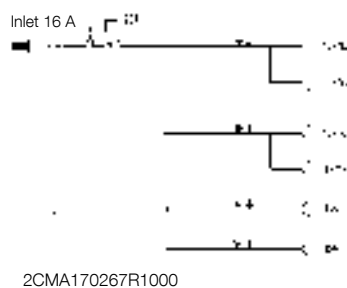
Enclosure in thermoplastic with terminal block to supply distribution boards in sheds. Cable entry: Tube entry Ø 25.5 mm

Easy & Safe

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack qty	Weight kg/ea
Rated current 16 A							
3P+N+E							
5	Red	346-415	50 and 60	416A6 *	2CMA168127R1000	1	0.74
Rated current 32 A							
3P+N+E							
5	Red	346-415	50 and 60	432A6 *	2CMA168128R1000	1	0.94

*) Indicates standard product.

Wiring diagrams



Additional products & Accessories



Plugblocker

Lockout / tagout for plugs and inlets. Can be used for any IEC 60309-1 and 60309-2 plug or inlet, both IP 44 and IP 67 products.

To fit	Type	Order code	Pack qty
Plugs 16-125 A Panel mounted inlets 16-125 A Surface mounted inlets 16-125 A	CLF16-125 *	2CMA179237R1000	1



Protective cover 16 - 125 A, IP 44/67

Material in EPDM Rubber 60sh

For inlet and plug	Type	Order code	Pack qty
16 A, 2P+E	GP216 *	2CMA164993R1000	1
16 A, 3P+E	GP316 *	2CMA164994R1000	1
16 A, 3P+N+E	GP416 *	2CMA164995R1000	1
32 A, 2P+E and 3P+E	GP232/332	2CMA164996R1000	1
32 A, 3P+N+E	GP432 *	2CMA164997R1000	1
63 A, 2P+E, 3P+E and 3P+N+E	GP63 *	2CMA164998R1000	1
125 A, 2P+E, 3P+E and 3P+N+E	GP125 *	2CMA164999R1000	1



Cable tightening

To fit equipment type:		Type	Order code	Dimension	Pack qty
Inlet	Outlet				
2125BS...W	2125RS...W	CWT-1	2CMA170187R1000	Ø 22-48 mm Cable area up to 70 mm ²	1
3125BS...W	3125RS...W				
4125BS...W	4125RS...W				
Modular Combi Plastic Extra assembly friendly		CWT-2	2CMA144007R1000	Ø 15-40 mm	1



Accessories

Description	Order Code	Pack qty
Tightening plug Pg 16 (Pr 22.5) *	2CMA178320R1000	10
Cable attachment clamp type AV *	2CMA178336R1000	10
Auxillary contact OA1G10 (Normally Open)	2CMA144690R1000	1
Auxillary contact OA1G01(Normally Closed)	2CMA144691R1000	1

*) Indicates standard product.

Auxillary contacts for all switched socket outlets 16-125 A. Technical data according to IEC 60944-5-1. Ith 16A.

Insulation voltage 690 V. Operational voltage (V) 230/400/690. Operational current (A) 6/4/2.

Additional products & Accessories



Schuko outlets, 10/16 A, 250 V, IP 44 Splashproof

The units have selfclosing lids which are lockable in closed position.
Enclosure in aluminum alloy.

Terminals/ Poles	Number of outlets	Conductor area, mm ²	Cable entry	Type	Order Code	Pack qty	Weight kg/ea
1P+E							
2	1	2.5	2 x M20	UJ110/2 *	2CMA178338R1000	10	0.30
2	2	2.5	2 x M20	UJ210/2 *	2CMA178339R1000	5	0.60
2	4	2.5	2 x M20+2 x M25	UJ410 *	2CMA178341R1000	1	0.90



Schuko outlets, 10/16 A, 250 V, IP 54 Splashproof

Enclosure in polycarbonate.

Terminals/Poles	Type	Order Code	Pack qty	Weight kg/ea
1P+E				
2	UJP *	2CMA178342R1000	10	0.07



Schuko outlet for mounting on supporting wire, wall or cable ladder.

10/16 A, 250 V. For through supply of 3P+N+E. Enclosure in thermoplastic.
Cable entry: conduit (2 pcs included)

Terminals/ Poles	Number of outlets	Conductor area, mm ²	Degree of protection	Type	Order Code	Pack qty	Weight kg/ea
1P+E							
2	2	2.5	IP 20	2210 *	2CMA178311R1000	10	0.30
2	2	2.5	IP 44	2210L *	2CMA178319R1000	10	0.30



Surface socket outlet with schuko, 16 A, IP 44 Splashproof

Enclosure in thermoplastic, socket-outlet with 2 pole schuko 16 A,
Cable area 1.5 - 4 mm²

Easy
& Safe

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack qty	Weight kg/ea
3P+N+E							
5	■ Red	400/230	50 and 60	CUE416-6+R/UJP *	2CMA178301R1000	10	0.34

*) Indicates standard product.

Additional products & Accessories

Spare parts

Spare parts for switched interlocked socket-outlets

Order code	Description	Pack quantity
Lid complete for MHS ¹⁾		
2CMA181726R1000	LID COMPL. 216MHS6	1
2CMA181738R1000	LID COMPL. 316MHS6	1
2CMA181728R1000	LID COMPL. 316MHS7	1
2CMA181735R1000	LID COMPL. 316MHS9	1
2CMA181739R1000	LID COMPL. 332MHS6	1
2CMA181736R1000	LID COMPL. 332MHS7	1
2CMA181737R1000	LID COMPL. 332MHS9	1
2CMA181746R1000	LID COMPL. 363MHS6	1
2CMA181730R1000	LID COMPL. 416MHS6	1
2CMA181729R1000	LID COMPL. 432MHS6	1
2CMA181747R1000	LID COMPL. 463MHS6	1
Socket complete for MHS ²⁾		
2CMA181711R1000	SOCKET COMPL. 216MHS6	1
2CMA181712R1000	SOCKET COMPL. 316MHS6	1
2CMA181713R1000	SOCKET COMPL. 316MHS7	1
2CMA181714R1000	SOCKET COMPL. 316MHS9	1
2CMA181710R1000	SOCKET COMPL. 332MHS6	1
2CMA181716R1000	SOCKET COMPL. 332MHS7	1
2CMA181717R1000	SOCKET COMPL. 332MHS9	1
2CMA181744R1000	SOCKET COMPL. 363MHS6	1
2CMA181715R1000	SOCKET COMPL. 416MHS6	1
2CMA181718R1000	SOCKET COMPL. 432MHS6	1
2CMA181745R1000	SOCKET COMPL. 463MHS6	1
Lid complete for MM ¹⁾		
2CMA181734R1000	LID COMPL. 316MM6	1
2CMA181732R1000	LID COMPL. 332MM6	1
2CMA181740R1000	LID COMPL. 363MM6	1
2CMA181733R1000	LID COMPL. 416MM6	1
2CMA181731R1000	LID COMPL. 432MM6 *	1
2CMA181741R1000	LID COMPL. 463MM6	1
Socket complete for MM ²⁾		
2CMA181719R1000	SOCKET COMPL. 316MM6	1
2CMA181720R1000	SOCKET COMPL. 332MM6	1
2CMA181742R1000	SOCKET COMPL. 363MM6	1
2CMA181727R1000	SOCKET COMPL. 416MM6	1
2CMA181725R1000	SOCKET COMPL. 432MM6	1
2CMA181743R1000	SOCKET COMPL. 463MM6	1

^{*)} Indicates standard product.

¹⁾ Contains lid, handle, screws

²⁾ Contains socket, contact sleeves, screws

Extra low voltage

According to IEC 60 309



The plugs and sockets are intended for an operating voltage not exceeding 50 V. Their rated voltage is 24 and 50 V for 16 and 32 A and their degree of protection is IP 44.

Range

The range includes the following types of equipment:

Plugs	16 and 32 A, 2- and 3-pole
Connectors	16 and 32 A, 2- and 3-pole
Socket-outlets, panel and surface mounting	16 and 32 A, 2-pole
Inlets, surface mounting	16 and 32 A, 2- and 3-pole

The cable seal is in the form of a reducing nipple that can be adapted to fit the cable area.

Standards

The products are designed according to the following standards: IEC 60 309-1, 60 309-2 and EN 60 309-1, 60 309-2.

Connections

The terminals are in form of sleeve terminals with two clamping screws in each sleeve.

Connectable conductor area

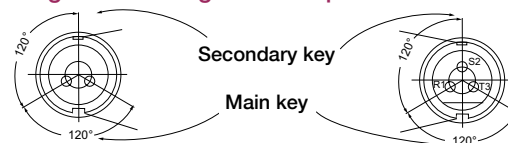
Rated current A	Poles	Plugs, connectors and appliance inlets (rubber sheath cable), mm ²	Socket-outlets (fixed installation) mm ²
16 and 32	2	4 - 10	4 - 10
16 and 32	3	4 - 10	4 - 10

Non-interchangeability

To achieve non-interchangeability, the plugs and sockets have a main key and a secondary key. The position of the secondary key is indicated by a number followed by a letter h (the hour position or o'clock position). The number is determined by the position of the secondary key relative to the main key, the position of which is defined as 6 o'clock. No hour position is given for 20-25 V 50-60 Hz, since there is no secondary key on these plugs and sockets.

The width of the key is different for 16 and 32 A plugs and sockets. In addition, there is a color coding system: The cover or front part is violet on 20-25 V and white on 40-50 V plugs and sockets. Plugs and sockets for direct current are grey.

Diagram showing the hour position for the various types



Positions and connections of the contact

Table according to IEC 60309-2

Table 3. Plugs and sockets for max. 50 V.

Poles	Rated Voltage V	Frequency Hz	Position of secondary key 1)	Color code
2	20-25	50-60	(none)	Violet
		40-50	50-60	12 h
	20-25 and 40-50	100-200	4 h	Green
		300	2 h	Green
		400	3 h	Green
		>400-500	11 h	Green
3	20-25	50-60	(none)	Violet
		40-50	50-60	12 h
	20-25 and 40-50	100-200	4 h	Green
		300	2 h	Green
		400	3 h	Green
		>400-500	11 h	Green

¹⁾The position of main key is defined as 6 h (6 o'clock)

Extra low voltage Plugs and connectors



Plugs, 16 A, IP 44 Splashproof Enclosure in thermoplastic. Cable entry: Conduit (included)

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P							
2	■ Violet	20-25 AC	50 and 60	CPT 216 *	2CMA179277R1000	10	0.13
2	□ White	40-50 AC	50 and 60	CPT 216-12 *	2CMA179278R1000	10	0.13
2	■ Grey	25 and 50 DC	-	CPT 216-10	2CMA179279R1000	10	0.13
3P							
3	■ Violet	20-25 AC	50 and 60	CPT 316	2CMA179280R1000	10	0.15
3	□ White	40-50 AC	50 and 60	CPT 316-12	2CMA179281R1000	10	0.15
3	■ Green	25 and 50 AC	100-200	CPT 316-4	2CMA179282R1000	10	0.15

Plugs, 32 A, IP 44 Splashproof Enclosure in thermoplastic. Cable entry: Conduit (included)

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P							
2	■ Violet	20-25 AC	50 and 60	CPT 232	2CMA179283R1000	10	0.13
2	□ White	40-50 AC	50 and 60	CPT 232-12	2CMA179296R1000	10	0.13
2	■ Grey	25 and 50 DC	-	CPT 232-10	2CMA179284R1000	10	0.13
3P							
3	■ Violet	20-25 AC	50 and 60	CPT 332	2CMA179285R1000	10	0.15
3	□ White	40-50 AC	50 and 60	CPT 332-12	2CMA179286R1000	10	0.15
3	■ Green	25 and 50 AC	100-200	CPT 332-4	2CMA179287R1000	10	0.15



Connectors, 16 A, IP 44 Splashproof Enclosure in thermoplastic. Cable entry: Conduit (included)

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P							
2	■ Violet	20-25 AC	50 and 60	CST 216 *	2CMA179288R1000	10	0.17
2	□ White	40-50 AC	50 and 60	CST 216-12	2CMA179289R1000	10	0.17
2	■ Grey	25 and 50 DC	-	CST 216-10	2CMA179290R1000	10	0.17
3P							
3	■ Violet	20-25 AC	50 and 60	CST 316	2CMA179291R1000	10	0.20
3	□ White	40-50 AC	50 and 60	CST 316-12	2CMA179292R1000	10	0.20
3	■ Green	25 and 50 AC	100-200	CST 316-4	2CMA179293R1000	10	0.20

Connectors, 32 A, IP 44 Splashproof Enclosure in thermoplastic. Cable entry: Conduit (included), Violet and white = AC, Grey = DC

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P							
2	■ Violet	20-25 AC	50 and 60	CST 232	2CMA179297R1000	10	0.17
2	□ White	40-50 AC	50 and 60	CST 232-12	2CMA179306R1000	10	0.17
2	■ Grey	25 and 50 DC	-	CST 232-10	2CMA179295R1000	10	0.17
3P							
3	■ Violet	20-25 AC	50 and 60	CST 332	2CMA179307R1000	10	0.20
3	□ White	40-50 AC	50 and 60	CST 332-12	2CMA179328R1000	10	0.20
3	■ Green	25 and 50 AC	100-200	CST 332-4	2CMA179329R1000	10	0.20

*) Indicates standard product.

- Accessories page 68
- Technical data page 80
- Dimensions page 81

Extra low voltage

Socket outlets for panel mounting



16 A, IP 44 Splashproof

Enclosure in thermoplastic, straight type

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P							
2	■ Violet	20-25 AC	50 and 60	CUIT 216 *	2CMA179309R1000	10	0.12
2	□ White	40-50 AC	50 and 60	CUIT 216-12	2CMA179310R1000	10	0.12
2	■ Grey	25 and 50 DC	-	CUIT 216-10	2CMA179311R1000	10	0.12

32 A, IP 44 Splashproof

Enclosure in thermoplastic, straight type

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P							
2	■ Violet	20-25 AC	50 and 60	CUIT 232	2CMA179312R1000	10	0.12
2	□ White	40-50 AC	50 and 60	CUIT 232-12	2CMA179331R1000	10	0.12
2	■ Grey	25 and 50 DC	-	CUIT 232-10	2CMA179332R1000	10	0.12

16 A, IP 44 Splashproof

Enclosure in thermoplastic, angled type

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P							
2	■ Violet	20-25 AC	50 and 60	CUIST 216 *	2CMA179313R1000	10	0.12
2	□ White	40-50 AC	50 and 60	CUIST 216-12	2CMA179314R1000	10	0.12
2	■ Grey	25 and 50 DC	-	CUIST 216-10	2CMA179315R1000	10	0.12
3P							
3	■ Violet	20-25 AC	50 and 60	CUIST 316 *	2CMA179316R1000	10	0.20
3	□ White	40-50 AC	50 and 60	CUIST 316-12	2CMA179317R1000	10	0.20
3	■ Green	25 and 50 DC	100-200	CUIST 316-4	2CMA179318R1000	10	0.20

32 A, IP 44 Splashproof

Enclosure in thermoplastic, angled type

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P							
2	■ Violet	20-25 AC	50 and 60	CUIST 232	2CMA179319R1000	10	0.12
2	□ White	40-50 AC	50 and 60	CUIST 232-12	2CMA179333R1000	10	0.12
2	■ Grey	25 and 50 DC	-	CUIST 232-10	2CMA179320R1000	10	0.12
3P							
3	■ Violet	20-25 AC	50 and 60	CUIST 332	2CMA179321R1000	10	0.20
3	□ White	40-50 AC	50 and 60	CUIST 332-12	2CMA179334R1000	10	0.20
3	■ Green	25 and 50 DC	100-200	CUIST 332-4	2CMA179322R1000	10	0.20

*) Indicates standard product.

Extra low voltage

Socket outlets and inlets for surface mounting



Socket outlet for surface mounting, 16 A, IP 44 Splashproof
Enclosure in thermoplastic. Cable entry with M25 knock-out

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P							
2	■ Violet	20-25 AC	50 and 60	CUGT 216 *	2CMA179298R1000	10	0.28
2	□ White	40-50 AC	50 and 60	CUGT 216-12	2CMA179299R1000	10	0.28
2	■ Grey	25 and 50 DC	-	CUGT 216-10	2CMA179300R1000	10	0.28
3P							
3	■ Violet	20-25 AC	50 and 60	CUGT 316	2CMA179301R1000	10	0.30
3	□ White	40-50 AC	50 and 60	CUGT 316-12	2CMA179302R1000	10	0.30
3	■ Green	25 and 50 AC	100-200	CUGT 316-4	2CMA179303R1000	10	0.30



Inlets for surface mounting, 16 A, IP 44 Splashproof
Enclosure in thermoplastic. Cable entry with M25 knock-out

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pack	Weight kg/ea
2P							
2	■ Violet	20-25 AC	50 and 60	CIGT 216 *	2CMA179323R1000	10	0.14
2	□ White	40-50 AC	50 and 60	CIGT 216-12	2CMA179324R1000	10	0.14
2	■ Grey	25 and 50 DC	-	CIGT 216-10	2CMA179325R1000	10	0.14
3P							
3	■ Violet	20-25 AC	50 and 60	CIGT 316	2CMA179326R1000	10	0.15
3	□ White	40-50 AC	50 and 60	CIGT 316-12	2CMA179327R1000	10	0.15
3	■ Green	25 and 50 DC	100-200	CIGT 316-4	2CMA179335R1000	10	0.15

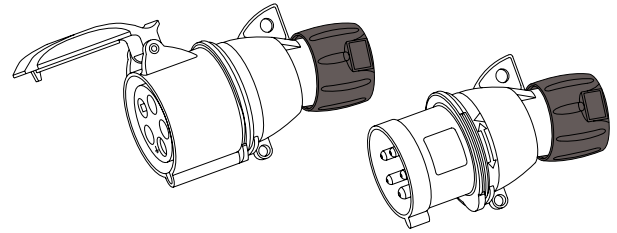
*) Indicates standard product.

Technical data

Products IP44

Tightening guide

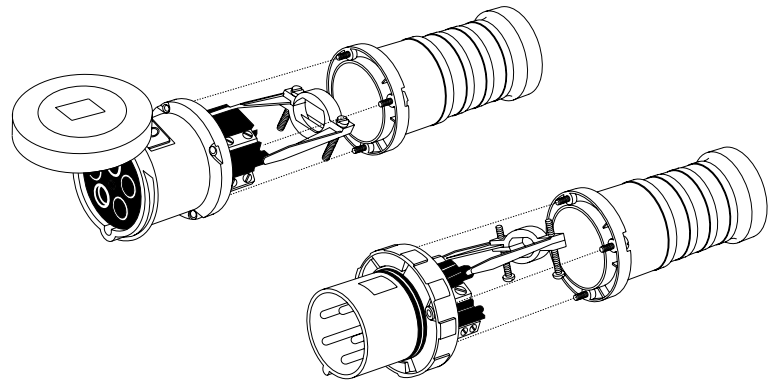
Device	Terminal Screws Nm	Internal Clamp Nm	Cable Screws Nm	Assembly Screws Nm	Cable gland torque Nm
16 A	0.8	-	-	1.2	4-6
32 A	1.2	-	-	1.2	4-6
63 A	3.5	1.5	-	1.2	-



16 - 32 A, IP44

Wire sizes

Device	Cable dimension range mm
216	8 - 13
316	13 - 17
416	13 - 17
232	13 - 21.5
332	13 - 21.5
432	13 - 21.5
263	17 - 35
363	17 - 35
463	17 - 35

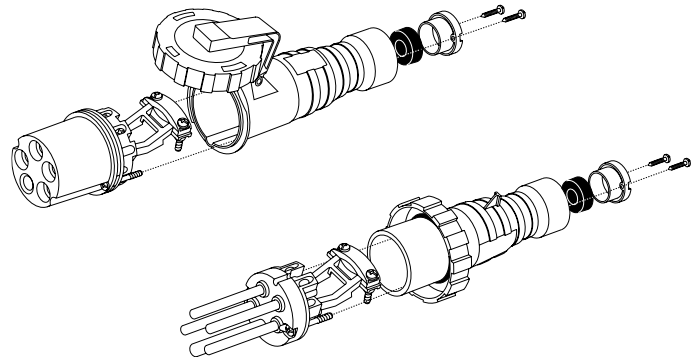


63 - 125 A, IP44

Products IP67

Tightening guide

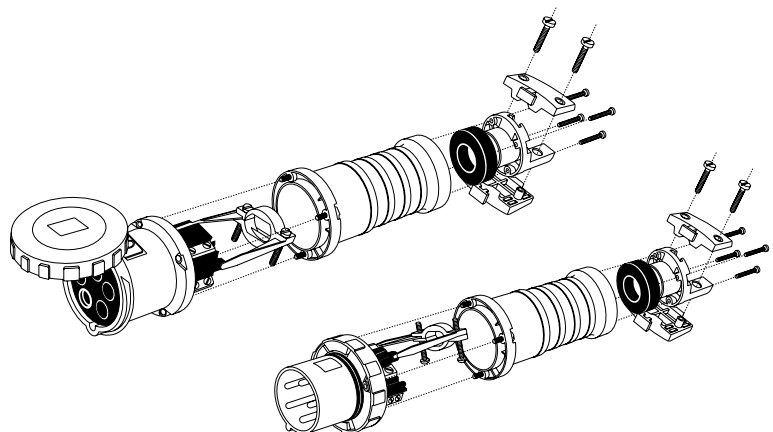
Device	Terminal Screws Nm	Internal Clamp Nm	Cable Screws Nm	Assembly Screws Nm
16 A	0.8	1.2	-	1.2
32 A	1.2	1.2	-	1.2
63 A	3.5	1.5	-	1.2
125 A	5.6	2.0	-	2.0



16 - 32 A, IP67

Wire sizes

Device	Cable dimension range mm
216	8 - 13
316	13 - 17
416	13 - 17
232	13 - 21.5
332	13 - 21.5
432	13 - 21.5
263	17 - 35
363	17 - 35
463	17 - 35
2125	24 - 48
3125	24 - 48
4125	24 - 48

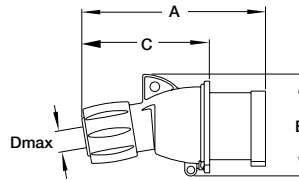


63 - 125 A, IP44

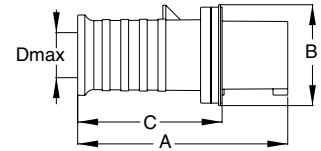
Dimensions

Plugs, type P..

Type	A	B	C	Dmax
216P..	125	63	88	13
316P..	142	73	105	17
416P..	142	76	105	17
232P..	162	85	116	21.5
332P..	162	85	116	21.5
432P..	162	90	116	21.5
263-463P..	215	103	148	35

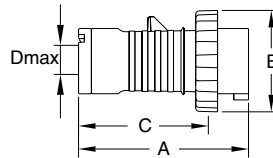


216-432P..

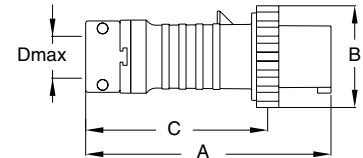


263-463P..

Type	A	B	C	Dmax
216P..W	128	71	94	13
316P..W	144	79	111	17
416P..W	146	87	112	17
232P..W	147	94	105	21.5
332P..W	147	94	105	21.5
432P..W	161	101	119	21.5
263-463P..W	275	114	213	41
2125-4125P..W	313	130	242	48



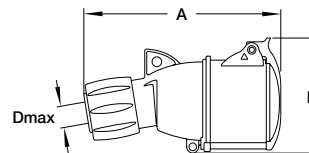
216-432P..W



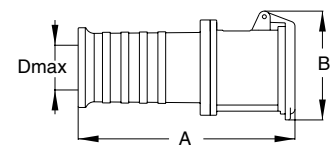
263-4125P..W

Connectors, type C..

Type	A	B	Dmax
216C..	134	75	13
316C..	154	86	17
416C..	154	90	17
232C..	177	96	21.5
332C..	177	96	21.5
432C..	177	100	21.5
263-463C..	224	112	35

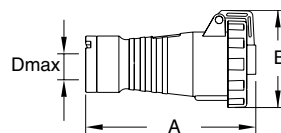


216-432C...

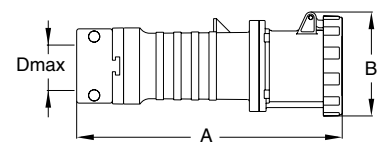


263-463C..

Type	A	B	Dmax
216C..W	151	80	13
316C..W	168	88	17
416C..W	170	97	17
232C..W	177	102	21.5
332C..W	177	102	21.5
432C..W	182	109	21.5
263-463C..W	286	111	41
2125-4125C..W	325	122	48



216-432C..W



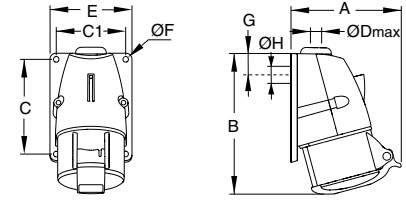
263-4125C..W

Dimensions

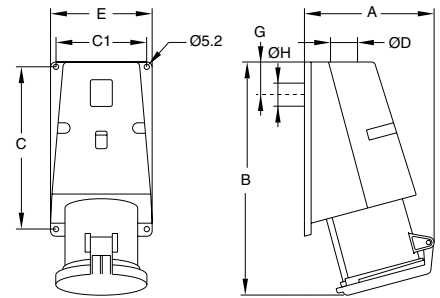
Surface socket-outlets. type RS..

Type	A	B	C	C1	Dmax	E	F	G	H
216RS..	91	117	75	54	18/M20	66	5.5	27	23
316RS..	100	132	91	67	18/M20	79	5.5	30	23
416RS..	104	134	91	67	18/M20	79	5.5	30	23
232RS..	118	163	111	72	22/M25	85	5.5	34	29
332RS..	116	163	111	72	22/M25	85	5.5	34	29
432RS..	121	164	111	72	22/M25	85	5.5	34	29

Type	A	B	C	C1	D	E	G	H
263-463RS..	136	254	170	95	M32	107	68	35



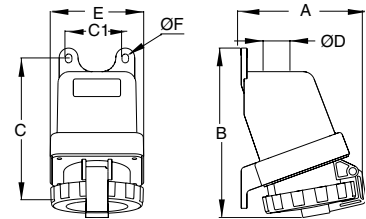
216 - 432RS..



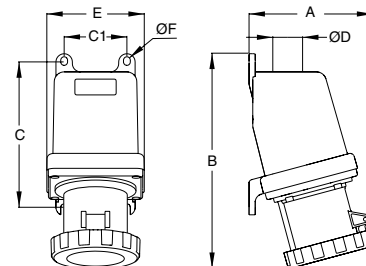
263 - 463RS..

Surface socket-outlets, type RS..W

Type	A	B	C	C1	D	E	F
216RS..W	115	172	150	60	25	99	6.5
316RS..W	118	170	150	60	25	99	6.5
416RS..W	124	169	150	60	25	99	6.5
232RS..W	129	178	150	60	25	99	6.5
332RS..W	129	178	150	60	25	99	6.5
432RS..W	131	178	150	60	25	99	6.5
263-463RS..W	150	263	176	76	32	118	8.0
2125-4125RS..W	171	282	188	85	50	145	9.0

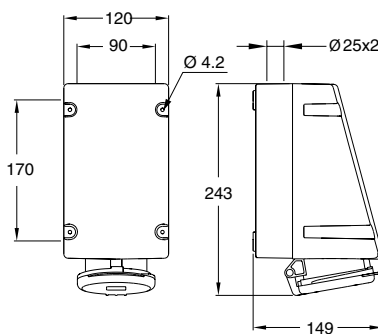


216 - 432RS..W

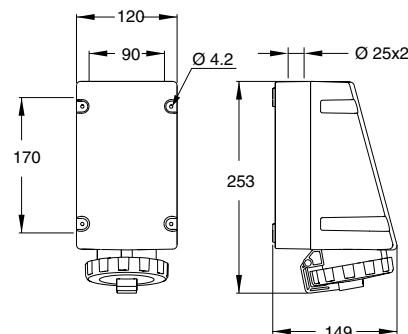


263 - 4125RS..W

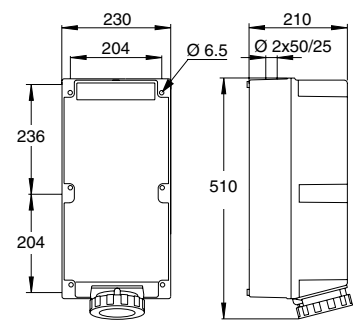
Surface socket-outlets for looping and non-looping, type RL..., RL...W, RNL...W



216 - 432RL..



216 - 432RL..W
216 - 432RNL...W

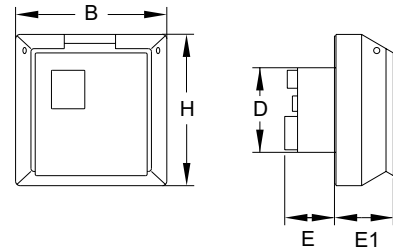


2125 - 4125RL..W

Dimensions

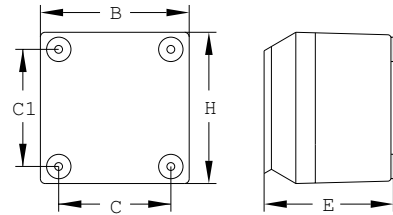
Surface socket-outlet for flush mounting, type CUED...

Type	B	H	D	E	E1
CUED 216...	85	85	49	29.5	32
CUED 416...	95	95	62	29.5	32



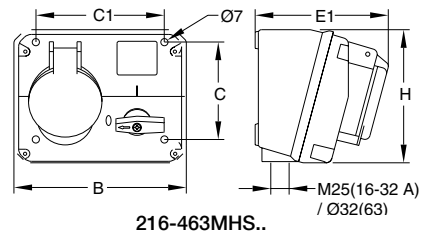
Surface socket-outlet for surface mounting, type RD...

Type	B	H	C	C1	E
RD 216...	85	85	67	67	77
RD 416...	95	95	70	70	81



Switched interlocked sockets-outlets, type MHS...

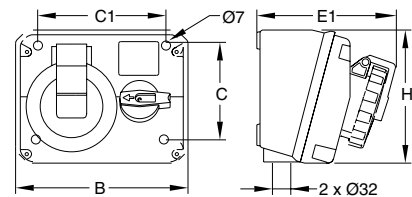
Type	B	C	C1	E1	H
216-416MHS..	168	91	125	116	129
232-432MHS..	168	91	125	126	129
263-463MHS..	206	132	152	168	168



216-463MHS..

Switched interlocked sockets-outlets, type MHS...W

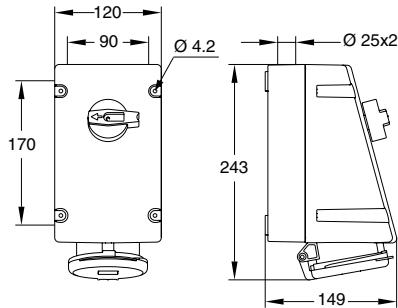
Type	B	C	C1	E1	H
216-416MHS..W	168	91	125	116	129
232-432MHS..W	168	91	125	136	129
263-463MHS..W	206	132	152	182	168



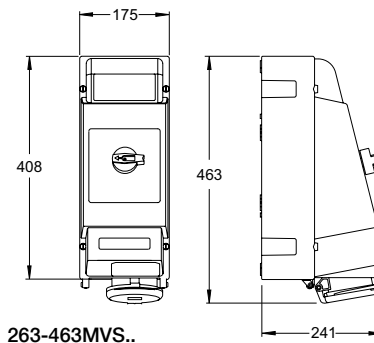
216-463MHS..W

Dimensions

Switched interlocked sockets-outlets, type MVS...

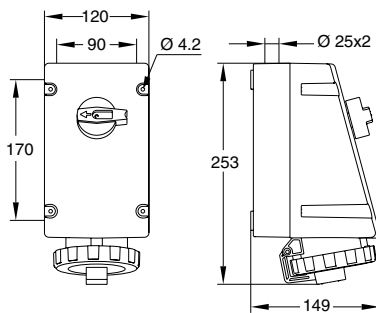


216-432MVS..

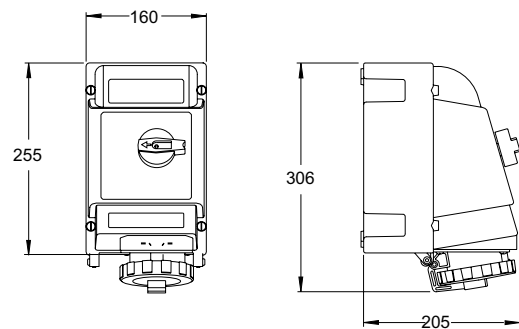


263-463MVS..

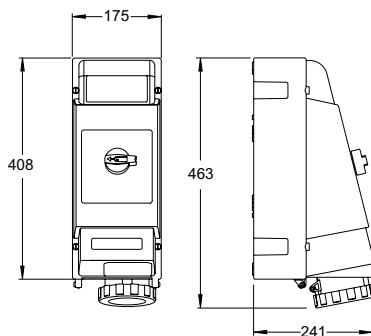
Switched interlocked sockets-outlets, type MVS...W, MVS...WH



216-432MVS..W



216-432MVS..WH

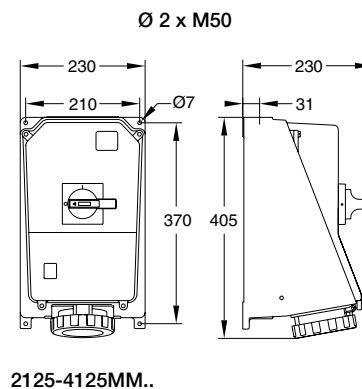
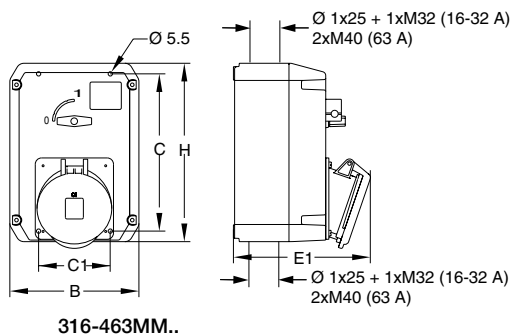


263-125MVS..WH

Dimensions

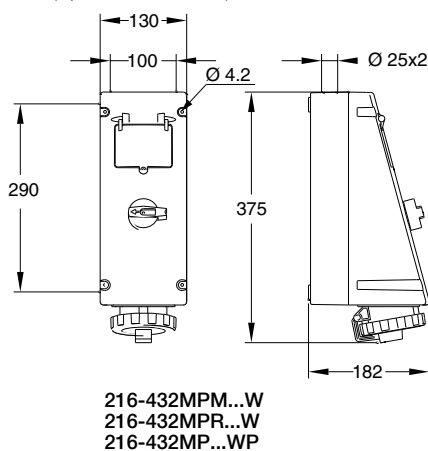
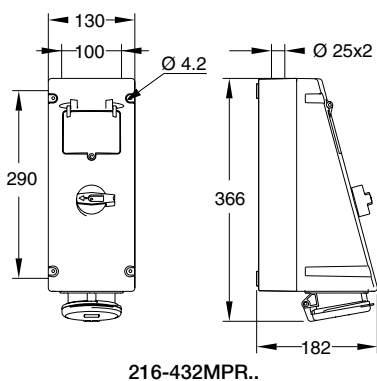
Switched interlocked socket outlets, type MM...

Type	B	C	C1	E1	H
316-416MM..	135	165	91.5	125	198
332-432MM..	135	165	91.5	135	198
263-463MM..	165	201	91.5	183	228



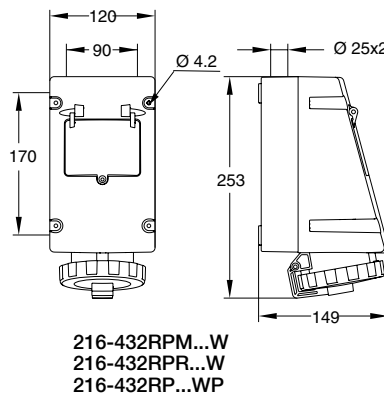
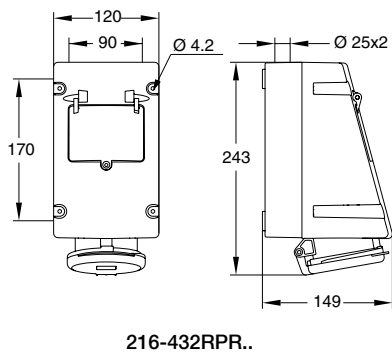
Switched interlocked socket outlets

- with MCB, type MPM...W
- with RCD, type MPR... , MPR...W
- without MCB/RCD, type MP...PW (up to 4 modules)



Socket outlets

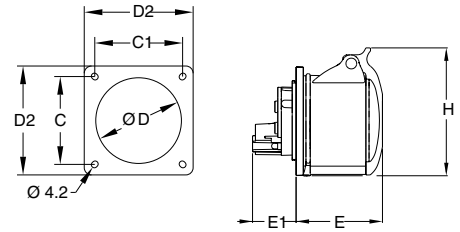
- with MCB, type RPM...W
- with RCD, type RPR... , RPR...W
- without MCB/RCD, RP...WP (up to 4 modules)



Dimensions

Socket-outlets, panel mounting, type R..

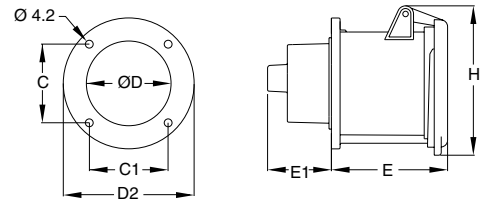
Type	C	C1	D	D2	E	E1	H
216R..	44-47	44-47	49	56	56	29	73
316R..	50-52	50-52	59	66	58	30	87
416R..	50-52	50-52	59	66	60	31	89



216-416R..
216-432RU...

Socket-outlets, panel mounting, type RU..

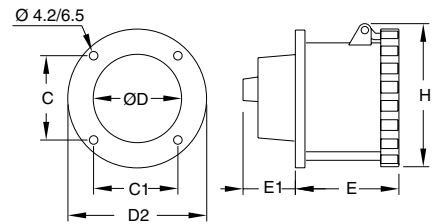
Type	C	C1	D	D2	E	E1	H
216RU..	60-61	60-61	49	75	56	29	79
316RU..	60-61	60-61	59	75	58	30	87
416RU..	60-61	60-61	59	75	60	31	89
232RU..	60-61	60-61	66	75	70	34	93
332RU..	60-61	60-61	66	75	70	34	93
432RU..	60-61	60-61	66	75	71	34	99
263-463RU..	61	61	70	104	87	48	112



263-463RU..

Socket-outlets, panel mounting, type RU..W

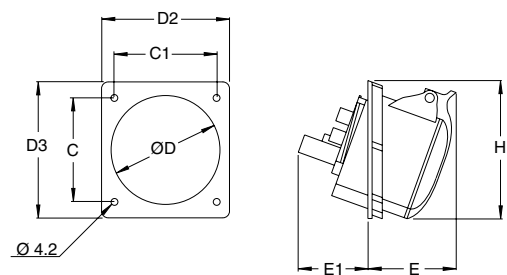
Type	C	C1	D	D2	E	E1	H
263-463RU..W	61	61	70	104	89	48	111
2125-4125RR..W	71	71	88	115	100	58	122



263-4125RU...W

Socket-outlets, panel mounting, type RAM..

Type	C	C1	D	D2	D3	E	E1	H
216RAM..	55	55	63	70	78	53	42	76
316RAM..	66	66	78	83	89	53	46	85
416RAM..	66	66	78	83	89	55	48	89
232RAM..	75	75	87	93	99	61	52	98
332RAM..	75	75	87	93	99	61	52	98
432RAM..	75	75	87	93	99	64	52	101

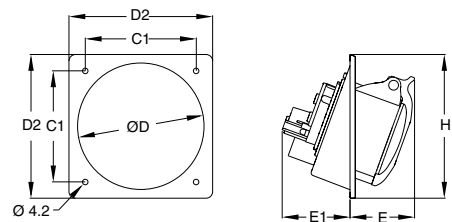


216-432RAM...

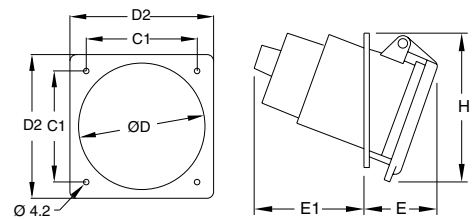
Dimensions

Socket-outlets, panel mounting, type RAU..

Type	C	C1	D	D2	E	E1	H
216RAU..	85	85	98	110	48	48	110
316RAU..	85	85	98	110	50	48	110
416RAU..	85	85	98	110	51	50	110
232RAU..	85	85	98	110	61	53	110
332RAU..	85	85	98	110	61	53	110
432RAU..	85	85	98	110	63	54	110
263-463RAU..	84	80	92	104	62	95	111



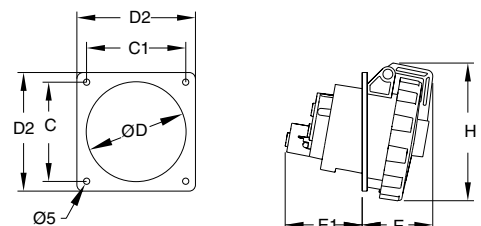
216-432RAU...



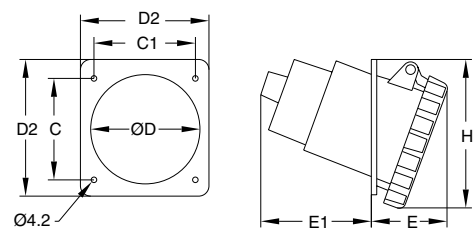
263-463RAU...

Socket-outlets, panel mounting, type RAU..W

Type	C	C1	D	D2	E	E1	H
216RAU..W	79.5	79.5	83	95	45	57	95
316RAU..W	79.5	79.5	83	95	45	57	95
416RAU..W	79.5	79.5	83	95	47	57	99
232RAU..W	79.5	79.5	83	95	56	61	104
332RAU..W	79.5	79.5	83	95	56	61	104
432RAU..W	79.5	79.5	83	95	56	62	111
263-463RAU..W	84	80	78	104	61	86	115



216-432RAU..W

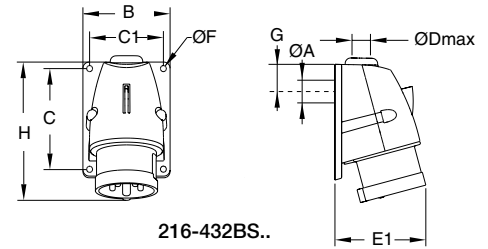


263-463RAU..W

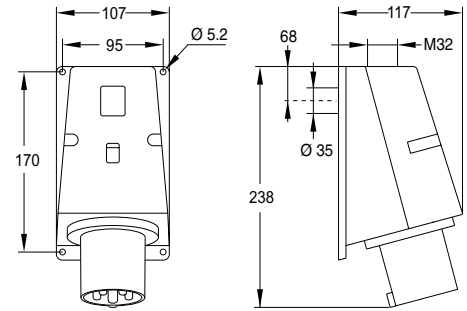
Dimensions

Surface inlets, type BS..

Type	A	B	C	C1	Dmax	E1	F	G	H
216BS..	23	66	75	54	18	72	5.5	27	110
316BS..	23	79	91	67	18	78	5.5	30	124
416BS..	23	79	91	67	18	81	5.5	30	125
232BS..	29	85	111	72	22	94	5.5	34	153
332BS..	29	85	111	72	22	94	5.5	34	153
432BS..	29	85	111	72	22	96	5.5	34	154



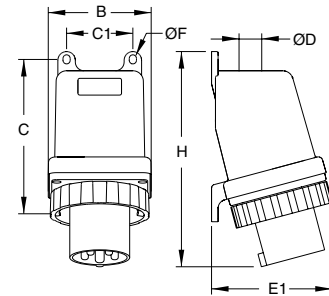
216-432BS..



263-463BS..

Surface inlets, type BS..W

Type	B	C	C1	D	E1	F	H
216BS..W	99	150	60	28.3	129	6.6	196
316BS..W	99	150	60	28.3	132	6.5	202
416BS..W	99	150	60	28.3	134	6.5	209
232BS..W	99	150	60	28.3	136	6.5	220
332BS..W	99	150	60	28.3	136	6.5	220
432BS..W	99	150	60	28.3	140	6.5	226
263-463BS..W	118	176	76	38	138	8	249
2125-4125BS..W	145	188	85	47	160	9	265

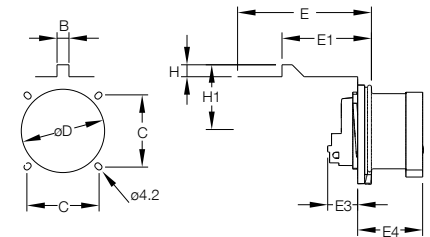


216-4125BS..W

Dimensions

Inlets, panel mounting, type B..

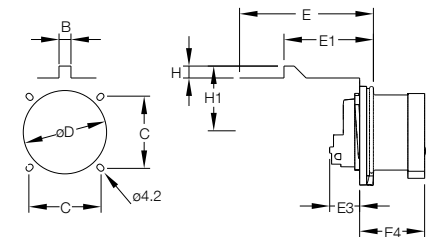
Type	B	C	D	E	E1	E3	E4	H	H1
216B..	9	44-47	49	75	40.5	21.5	46.5	4	30.0
316B..	9	50-52	59	80	46.8	21.0	47.0	5	34.0
416B..	9	50-52	59	90	52.5	21.0	46.5	7	38.0



216-416B..

Inlets, panel mounting, type BU..

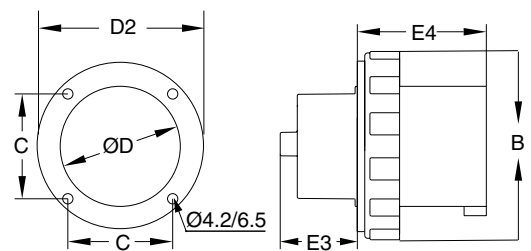
Type	B	C	D	E	E1	E3	E4	H	H1
232BU..	9	60-61	66	90	53.5	24.5	55.5	7	40.0
332BU..	9	60-61	66	90	53.5	24.5	55.5	7	40.0
432BU..	9	60-61	66	105	59.5	25.0	55.5	8	45.0
263-463BU..	11	61	70	105	62.0	50.0	78.0	9	49.5



232-463BU..

Inlets, panel mounting, type BU..W

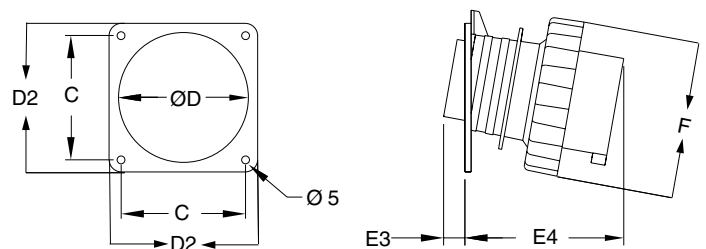
Type	B	C	D	D2	E3	E4
263-463BU..W	112	61	70	98	50	80
2125-4125BU..W	122	71	81	118	56	89



263-4125BU..W

Inlets, panel mounting, type BAU..W

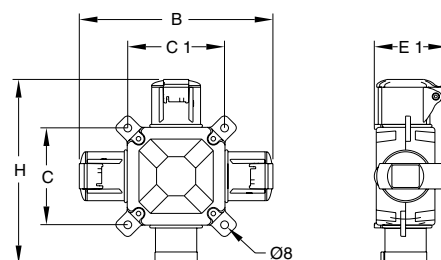
Type	C	D	D2	E3	E4	F
216BAU..W	79.5	83	95	10	47	71
316BAU..W	79.5	83	95	10	53	79
416BAU..W	79.5	83	95	10	87	87
232BAU..W	79.5	83	95	12	60	94
332BAU..W	79.5	83	95	12	60	94
432BAU..W	79.5	83	95	12	67	101



216-432BAU..W

Three way adaptors, type T..

Type	B	C	C1	E1	H
216T..	198	99	99	74	189
316T..	202	99	99	81	190
416T..	205	99	99	85	192

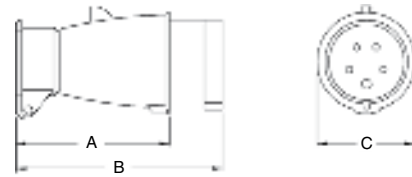


216-416T..

Dimensions

Adaptors, type ...Schuko

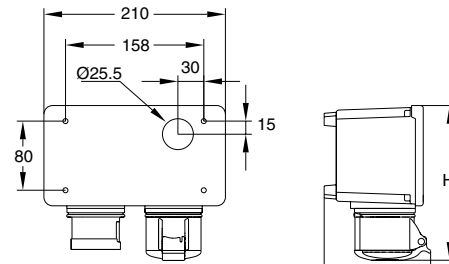
Type	A	B	C
216 Schuko	103	138	53
416 Schuko	103	139	66



216-416 Schuko

Site connection units, type A...

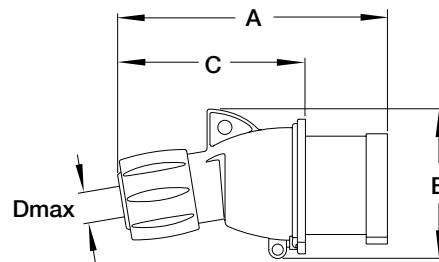
Type	E	H
416A6	125	179
432A6	125	188



416-432A6...

Plug shifter

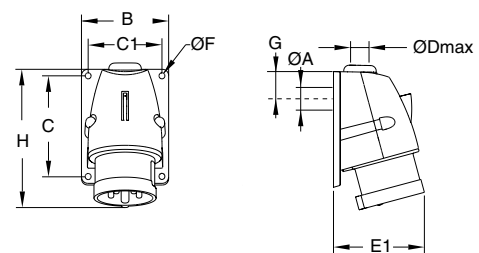
Type	A	B	C	Dmax
416PFV6	142	76	105	17



416PFV6

Surface inlet shifter

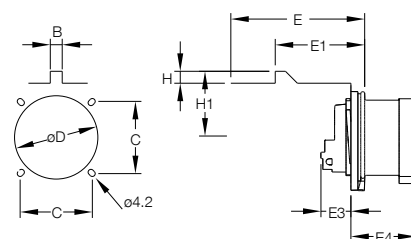
Type	A	B	C	C1	Dmax	E1	F	F	H
416BSFV6	23	79	91	67	18	81	5.5	30	125



416BSFV6

Panel mounted inlet shifter

Type	B	C	D	E	E1	E3	E4	H	H1
416BUFV6	9	50-52	59	90	52.5	21.0	46.5	7	38.0

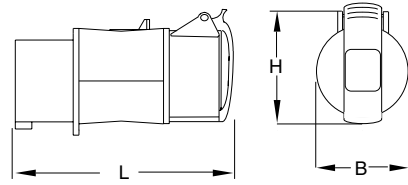


416BUFV6

Dimensions

Phase sequence changers, type FV..

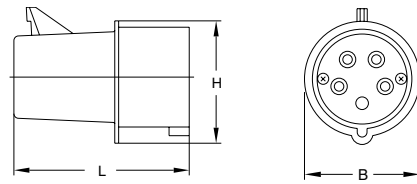
Type	B	L	H
416FV6	67	163	89
432FV6	75	193	99



416-432FV6

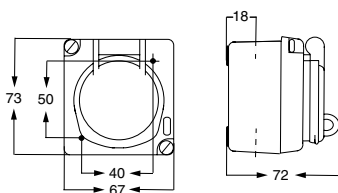
Phase sequence testers, type FP..

Type	B	L	H
416FP6	65	95	69
432FP6	73	113	79

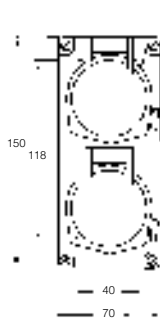


416-432FP6

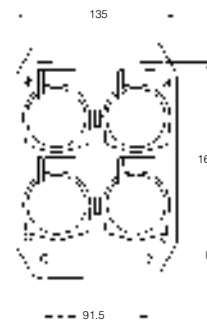
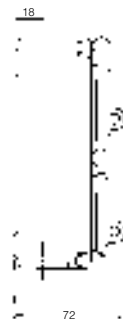
Schuko-outlets, type UJ..



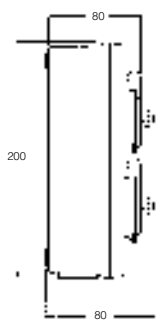
UJ 110/2



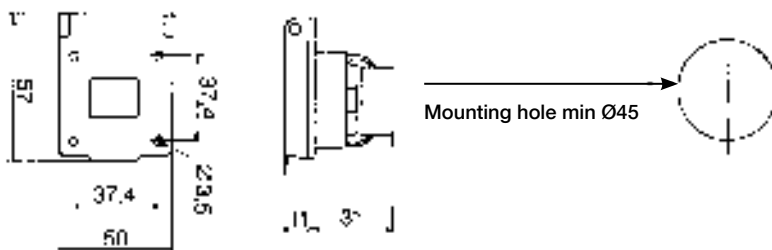
UJ 210/2



UJ 410



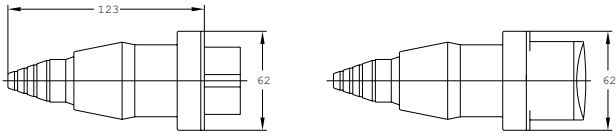
Schuko-outlets for panel mounting, type UJP



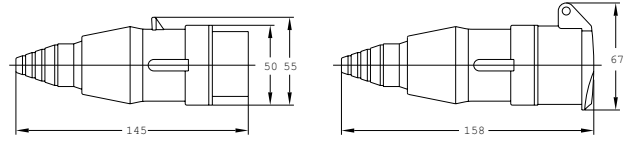
UJP

Dimensions

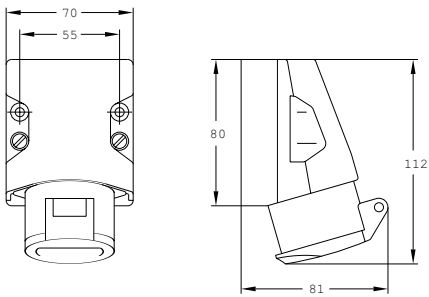
Plugs & Sockets for extra low voltage



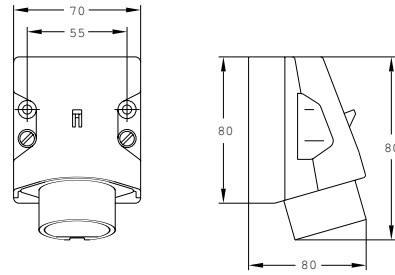
CPT...



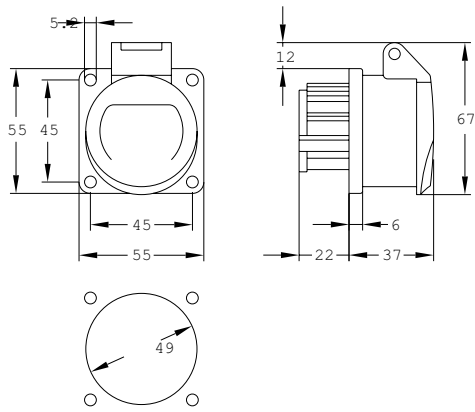
CST...



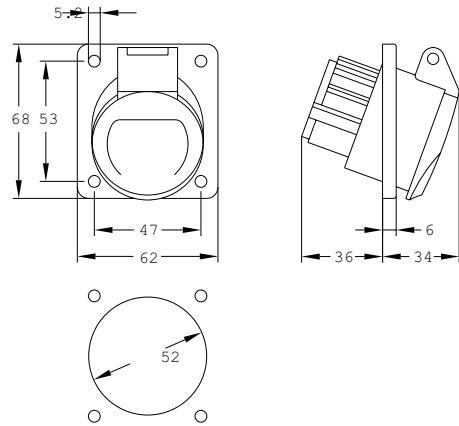
CUGT...



CIGT...



CUIT...



CUIST...

Explanation of type codes

Example: 416P6W

		4	16	P	6	W
		↓	↓	↓	↓	↓
Number of poles	2P+E 3P+E 3P+N+E	2 3 4				
Ampere	16 A 32 A 63 A 125 A		16 32 63 125			
Type	Plugs Connectors Surface socket-outlets Surface socket-outlets for looping Switched interlocked socket-outlets, horizontal vertical of metal with MCB with RCD Socket outlets with MCB with RCBD Socket outlets for panel mounting, minimized flange, straight unified flange, straight minimized flange, angled unified flange, angled Surface inlets Inlets for panel mounting, minimized flange, straight unified flange, straight unified flange, angled Three way adaptors Site connection unit Phase sequence testers Phase sequence changers			P C RS RL MHS MVS MM MPM MPR RPM RPR R RU RAM RAU BS B BU BAU T A FP FV		
						Degree of protection (blank) IP44, Splashproof W IP67, Watertight WH IP67, Watertight, Heavy Duty
						Other types CUED Socket outlets 16 and 32 A for wall socket, splashproof CIE Inlets, with flange (FL13) on top CPEF Plugs with built-in sequence changer CLF Plugblocker CUIT Socket outlets for extra low voltage, flush mounting, straight CUIST Socket outlets for extra low voltage, flush mounting, angled CUGT Socket outlets for extra low voltage, surface mounting CIGT Inlets for extra low voltage, surface mounting CST Connectors for extra low voltage CPT Plugs for extra low voltage BPC Building site UJ Schuko-outlets, metal UJP Schuko-outlets, plastic GP Cover CUE 416-6+ Socket outlets 4-pole, 16 A, 6h with R/UJP R/UJP Schuko 16 A

Standard voltages			
Color codes according to IEC60309-1, -2			
Position of earthing sleeve according to IEC 60309-2 (clock)	2P+earth	3P+earth	3P+N+earth
1 All operating voltages and/or currents not stated below	Optional voltage (not stated below)	Optional voltage (not stated below)	Optional voltage (not stated below)
2 Aeronautics/airports, military	>50 V >300-500 Hz 16, 32A	>50 V >300-500 Hz 16, 32A	>50 V >300-500 Hz 16, 32A
3 3-phase only for cooling containers (standardized by ISO)	50-250 V DC	380 V 50 Hz, 440 V 60 Hz 16, 32 A	220/380 V 50 Hz, 250/440 V 60 Hz 16, 32 A
4 For example in U.K.	100-130 V 50/60 Hz	100-130 V 50/60 Hz	57/100-75/130 V 50/60 Hz
5 Wind power	277 V 60 Hz	600-690 V 50/60 Hz	647/600-400/690 V 50/60 Hz
6 Most common voltages in Western Europe	200-250 V 50/60 Hz	380-415 V 50/60 Hz	200/346-240/415 V 50/60 Hz
7 Paper mills, steel plants, ship building industry	480-500 V 50/60 Hz	480-500 V 50/60 Hz	480-500 V 50/60 Hz
8	>250 V DC	Not used	Not used
9 For example in Norway	380-415 V 50/60 Hz	200-250 V 50/60 Hz	
10	Not used	>50 V >100-300 Hz	Not used
11 Mainly for marine installations	Not used	440-460 V 60 Hz	
12 Supply from isolating transformer	Supply from isolating transformer	125/250 V Single phase	Not used

Material specifications

Polycarbonate	PC
Polyamide	PA
Polyamide, glass fiber reinforced	PA+glass
Thermoplastic polyester	PBT

<p>Easy & Safe IP 44, 16-32 A Housing: PA Terminal carrier: PA</p>
<p>Tough & Safe IP 67, 16-32 A Housing: PBT, Terminal carrier: PA IP 67, 63-125 A + IP 44, 63 A Housing: PBT, Terminal carrier: PA+glass</p>
<p>Critical & Safe IP 44 + IP 67 Housing: PBT Terminal carrier: PA, PA+glass</p>

	PA	PA+glass	PC	PBT
Impact strength	+		++	++
Tracking index (CTI)	600	500	300	225
UV-stability			+	+
Chemicals				
Acids	-		+	+
Bases	+		-	+
Salts	+		+	+
Oil/grease, mineral	-	+	+	+
Oil/mineral, synthetic	+	-	+	+
Temperature				
Max 60 min	170	170	140	140
Continuous	100	100	110	110
Flame class	V2	V0	V2	V0 (>0.8 mm) 5VA (>2.5 mm)

Index

Order Code - Type Code

Order Code	Type	Page	Order Code	Type	Page
2CMA144007R1000	CWT-2	73	2CMA163268R1000	316MVS11WH	16
2CMA144690R1000	OA1G10 (NO)	73	2CMA163270R1000	416MVS1WH	16
2CMA144691R1000	OA1G01 (NC)	73	2CMA163271R1000	416MVS2WH	16
2CMA154029R1000	DRI 4125-6	71	2CMA163272R1000	416MVS6WH	16
2CMA154098R1000	DRI 432-6	71	2CMA163273R1000	416MVS9WH	16
2CMA154099R1000	DRI 463-6	71	2CMA163275R1000	232MVS1WH	16
2CMA162327R1000	263MVS4	18	2CMA163276R1000	232MVS6WH	16
2CMA162328R1000	263MVS6	18	2CMA163277R1000	332MVS1WH	16
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2CMA162345R1000	463MVS6	18	2CMA163284R1000	432MVS1WH	16
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