Technical catalogue

System pro *M* compact®

On-off switches, pushbuttons, indicator lights



Half-size
Strong effect

The 9mm solution from ABB

Power and productivity
for a better world™

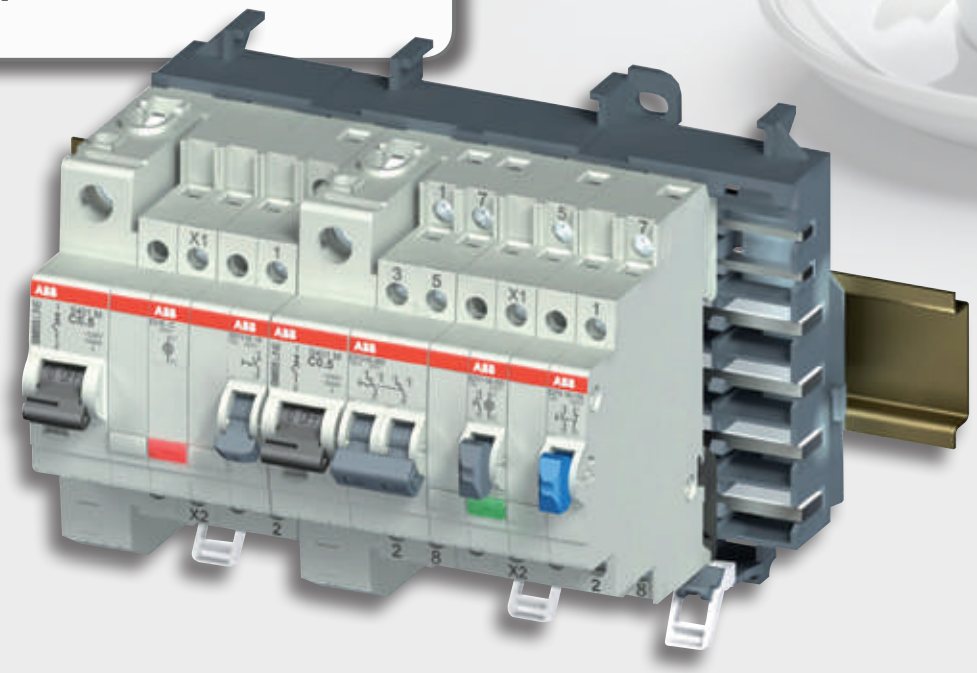
ABB

Half-size. Strong effect.

The new 9 and 18 mm modular comand devices for DIN 35 mm rail mounting in the System pro *M* compact® design.



Can be used in the SMISSLINE socket system





Contents

Applications 1/1

Characteristics 2/1
- Product range E210
- Main switch 63/80A

Device overview 3/1

Ordering data 4/1

Technical data 5/1

Dimensions (in mm) 6/1

Approval and standards 7/1

Modifications and errors reserved.

Applications

On-off switches, pushbuttons, indicator lights

Using modular DIN-rail mounted devices (MDRC) such as On-Off switches, pushbuttons and indicator lights makes it possible to switch and control electric loads from a central location. Thanks to signalling of the switch position, operating states can be recognized easily and users haven an overview of the situation. Space is saved in the distribution board thanks to the new narrow width of only 9 mm (0.5 modular width). The On-Off switches are easy to operate and the switched position is always clearly recognisable. Depending on requirements, the switch position can also be indicated by a built-in yellow LED. The pushbuttons are excellently suitable for forwarding pulse control commands, e.g. in lighting controls. The operating state of the luminous pushbutton variants can be signalled. The indicator lights are optimally used to signal or report back an operating state.

■ Private electrical installations

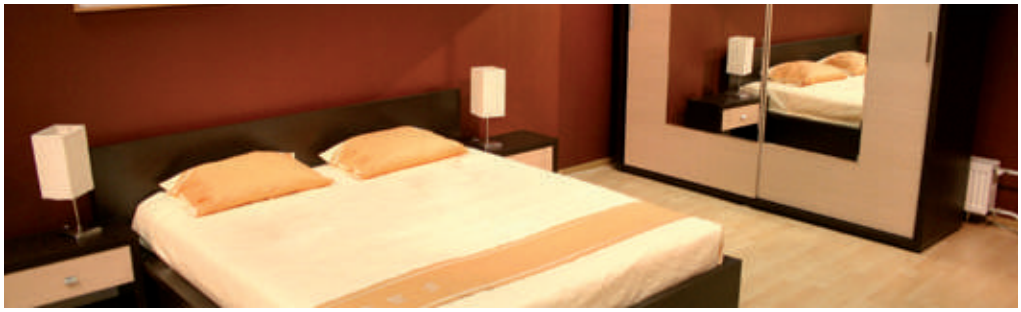
MDRCs can be used in subdistribution boards of multiple or single-family dwellings and other private buildings. Optimum operability and/or signalling of operating states is made easily possible.

Examples:

- Phase monitoring
- Signalling the operating state of a pond pump
- Switching machines in a DIY workshop
- Switching additional garden lighting On/Off
- Visualising the garden/garage door position



■ Commercial installations



In guesthouses, hotels, storage halls, small workshops, construction sites and other commercial operations, the MDRCs enable easy switching, control and signalling, thus providing a clear general picture of current operating states.

Examples:

- Outdoor lighting systems
- Additional electric heaters
- Visual status indication of machines and devices (e.g. a fan)
- Outdoor sockets
- Hotel reception (switching and/or monitoring functions)

■ Industrial installations



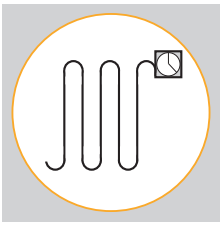
The MDRC product range is also used in all industrial establishments.

Examples:

- Phase monitoring
- Manual flap controls (ventilation systems)
- Switching pumps On/Off
- Manual -0- Automatic changeover
- Manual changeover of two-speed machines

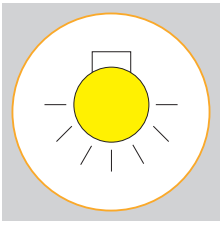
Integration of modular installation devices (on-off switches, pushbuttons and indicator lights) in the subdistribution board affords the additional advantage of intelligible signalling of electric loads' operating states. Easy operation or interpretation of devices is ensured by the clearly recognizable switching position (toggle lever) and/or a status display by means of an LED light. Depending on the system requirements, further signalling or control functionality for reliable operation can be used in the subdistribution board in the form of pushbuttons or indicator lights.

Electric heating devices



On-off switches, pushbuttons and pushbuttons with LED
Manual direct or pulse-controlled On/Off switching of additional heating elements, e.g. in DIY workshops or other purpose-built installations.

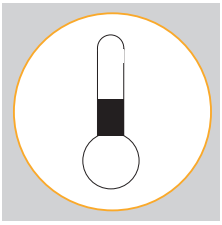
Lighting systems



On-off switches
As master switches for multiple-phase lighting sections, e.g. in halls, large basement rooms or provisional constructions.

Pushbuttons and pushbuttons with LED (puls contact operation)
Issuing of commands to latching relay or miniature contactors with visual feedback.

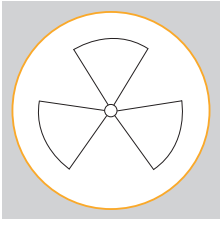
Air conditioners and fans



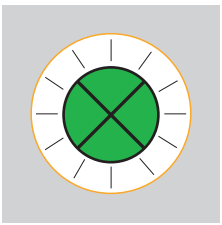
On-off switches or pushbuttons
Connecting air conditioners or ventilation fans as required.

Change over switches or group switches I-0-II
Switching over fans with two operating levels

Group switches I-0-II
Manual - 0 - Automatic changeover (from normal to emergency mains)



Signalling



On-off switches or pushbuttons with LED
Clear signalling and indication of the operating states of electric loads.

Indicator lights
Phase monitoring display
Signalling On, Off or Danger (colours, e.g. green, red, yellow)

Characteristics

On-off switches, pushbuttons, indicator lights

The On-Off switches, pushbuttons and indicator light units open up new space-saving and modern installation possibilities.

The units are for switching, controlling or signalling part of electrical systems or specific items of equipment. The new Series E210 units are available in widths of 9 mm (0.5 modular width) or 18 mm (1.0 modular width).



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On-Off switches, 16 A, 25 A and 32 A

These switches are installed directly in the subdistribution board and are used as manual master switches for direct On / Off switching of courtyard or basement lighting systems, ventilation and air conditioning systems, fans or special lighting systems with gas discharge lamps.
Module width depends on the contact configuration.
1 + 2 switching contacts = 9 mm (0,5 modular width)
3 + 4 switching contacts = 18 mm (1 modular width)



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On-Off switches, 16 A and 25 A with switch position indication

The unit's switched position is signalled clearly by the integrated LED. Thanks to the easily visible lit amber LED, which operating states the various items of equipment are in is clearly recognisable on the distribution board.
Module width depends on the contact configuration.
1 switching contact + LED = 9 mm (0.5 modular width)
2 + 3 switching contacts + LED = 18 mm (1 modular width)



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Change over switches, 16 A and 25 A

With its two switched positions, the change over switch is used in industry and building management systems. Clear recognisability of the switch's settings I and II enables reliable and easy use. Applications consist of switching over from normal to emergency lighting, changing over an outdoor lighting system with light sensor to normal operation and many other possibilities.
Module width depends on the contact configuration.
1 changeover contact = 9 mm (0.5 modular width)
2 changeover contacts = 18 mm (1 modular width)



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Group switches I-0-II 16 A and 25 A

The group switches offer universal application possibilities in industry, building management systems and house installations. They are used in lighting and machine control systems, for example. Using these units, a Manual - 0 - Automatic control can be realised with ease.
Module width depends on the contact configuration.
1 changeover contact = 9 mm (0.5 modular width)
2 changeover contacts = 18 mm (1 modular width)

Characteristics

On-off switches, pushbuttons, indicator lights



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Control switches, 16 A and 25 A

The control switches are used in electric control cabinets or house distribution boards. They offer universal possibilities of use with their diverse variants. They perform the task of forwarding control commands.
Module width depends on the contact configuration.
1 + 2 switching contacts = 9 mm (0.5 modular width)
3 + 4 switching contacts = 18 mm (1 modular width)



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Pushbutton, 16 A - 6 different pushbutton colours (Pulse contact operation)

Normal pushbuttons are always equipped with a normally-open and a normally-closed contact. The push-buttons' various colours (six colours) are based on DIN60204-1 (Colour marking of operator control parts and their significance). These pushbutton devices are suitable for forwarding pulse control command in almost every electrical system. They can also be used to operate lighting groups by means of a pulse command, e.g. to a latching relay or directly on the spot from the subdistribution board or the distribution cabinet. Module width is always 9 mm (0.5 modular width)



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Pushbutton, 16 A with LED - 5 different colours (Pulse contact operation)

The pushbuttons with an LED are equipped with only one contact (normally open or closed). Here, you have to choose between a normally-open or normally-closed version. The LED lights, various colours, are based on DIN60204-1 (Colour marking of operator control parts and their significance).
The pushbuttons with LEDs are excellently suitable for signalling or reporting back the operating state of loads controlled.
e.g. pump On = green LED lit; pump Off = LED not lit

The pushbuttons with LEDs are available in 12 to 48 V versions for DC or AC voltage, 115 - 250 V AC voltage and 110 - 220 V DC voltage.



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E219 indicator lights - 5 different LED colours

The indicator lights warrant a clear overview of the operating states of electrical equipment from one central location. The long useful life of LED technology promises maintenance-free operation for up to 100,000 hours.
For comparison: the incandescent bulbs previously used had a maximum operating operating time of 10,000 hours.

The indicator lights are available in 12 to 48 V versions for DC or AC voltage, 115-250 V AC voltage and in a version for 110-220 V DC voltage.

All code colours white, red, green, amber and blue are available for the well-known functions:

Neutral	= white
Emergency	= red
Abnormal operation	= amber
Normal operation	= green
Compelling action	= blue

Set new standards in your electrical distribution board

The reduced device width **saves space** while providing the same functionality and improved performance.

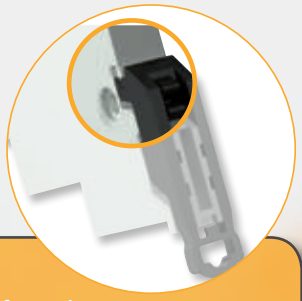


More space plus improved performance.

Characteristics

Special features





- **Fast mounting**
  Easily accessible with latching function.



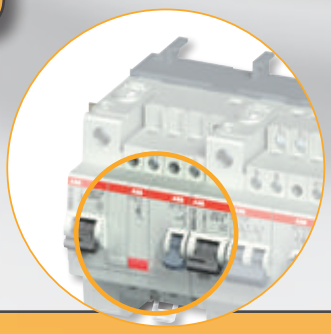
- **Switch position**
  clearly recognisable



- **Indicator lights**
  5 different colours (red, green, amber, blue, white)



- **Cross-head recessed screws**
  Pozidrive 1 (captive)



- **Can be used in the SMISSLINE socket system**



- **Reliable connection terminals**
  with integrated shutter



- **Pushbutton**
  6 different colours (grey, red, green, amber, black, blue)

Impressive solutions at a glance

On-off switches, pushbuttons, indicator lights

- **Touch protection** to DIN EN 50274 (DIN VDE0660 Part 514)
- **Reliable and convenient** operation
- **Colour-fast LEDs:** 5 colours for luminous pushbuttons and indicator lights
- **LED voltage ranges:** 12-48V AC/DC; 115-250V AC; 110-220V DC
- **Maintenance-free** LED light source (up to 100,000 h)
- **Consistent innovative design**
- **Dissipated power** optimised
- **Compliance with international** standards

ABB
System pro *M* compact®



- **Labelling field**
  System pro *M* compact



- **Type designation and schematic**
  with lasting laser marking



- **Visual switch position indication**
  by On/Off switches (with LED light)



- **Uniform design**
  ABB pro *M* compact device family



- **On/Off switch, lockable**
  in the On or Off setting

Characteristics

Main switches E463 and E480

Still in the range.

We set new standards in your electrical distribution board

- **Space-saving** use 3 poles over 44 mm
- **Switch position** clearly defined and recognisable by toggle lever
- **Short-circuit resistance** of up to 10 kA including the appropriate fusing
- **Master switch** for 63 A or 80 A
- **double interrupting** switch contacts
- **Compliance** with international standards

Application:

Switching devices between the consumer's overcurrent interrupter and the circuit distribution board. The Main switches can also be used for diverse other applications.



Main switches, 63 A and 80 A



Lockable 63 A main switch
(Special version for the German market)

Examples:

As a main switch

- at market stalls and fairground attraction booths
- in allotment colonies (manual entrance switch)
- for outdoor sockets
- electricity supply feeders on campsites
- in home studios or workshops as main machine switch
- for meter distribution boards

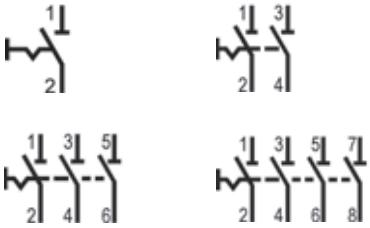
Overview

On-off switches

On-off switches

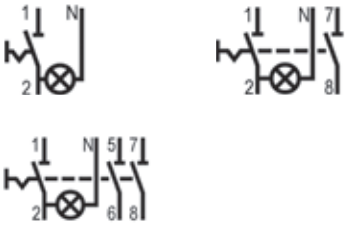

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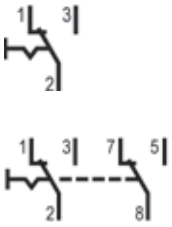

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Change over switches


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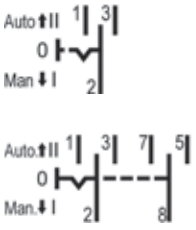

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Group switches


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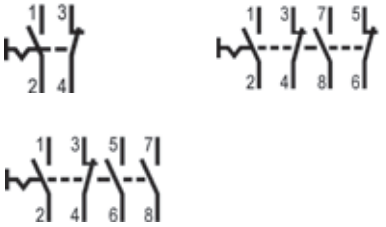

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Control switches


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Overview

Pushbuttons, indicator lights and accessories

Pushbuttons


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2CCC441047F0001


2CCC441048F0001



Indicator lights


2CCC441075F0001


2CCC441076F0001



Accessories


2CCC441089F0001

Dummy housings (attachable)


9 mm

2CCC441088F0001

Locks


18 mm

40656

Overview

Main switches

Master switches



Main switches, 63 and 80 A



Lockable 63 A main switch
(Special version for the German market)

Ordering data

On-off switches

On-Off switches, 16 A, 25 A and 32 A


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2CCC441006F0001

Contact config.	Rated voltage VAC	Power loss W	LED Colour	Width mm	Order data Type	Product No.	Bbn 7612270 EAN	Weight per unit kg	Pack. unit unit
Rated current = 16 A									
1 NO	250	0.32	-	9	**E211-16-10**	2CCA703000R0001	**938575**	0.035	10
2 NO	250,400	0.82	-	9	**E211-16-20**	2CCA703005R0001	**938582**	0.045	10
3 NO	250,400	1.14	-	18	**E211-16-30**	2CCA703010R0001	**938599**	0.080	10
4 NO	250,400	1.64	-	18	**E211-16-40**	2CCA703015R0001	**938605**	0.090	10
Rated current = 25 A									
1 NO	250	0.75	-	9	**E211-25-10**	2CCA703001R0001	**938612**	0.035	10
2 NO	250,400	1.95	-	9	**E211-25-20**	2CCA703006R0001	**938629**	0.045	10
3 NO	250,400	2.70	-	18	**E211-25-30**	2CCA703011R0001	**938636**	0.080	10
4 NO	250,400	3.90	-	18	**E211-25-40**	2CCA703016R0001	**938643**	0.090	10
Rated current = 32 A									
1 NO	250	1.12	-	9	**E211-32-10**	2CCA703002R0001	**938650**	0.035	10
2 NO	250,400	2.73	-	9	**E211-32-20**	2CCA703007R0001	**938667**	0.045	10
3 NO	250,400	3.85	-	18	**E211-32-30**	2CCA703012R0001	**938674**	0.080	10
4 NO	250,400	5.46	-	18	**E211-32-40**	2CCA703017R0001	**938681**	0.090	10

On-Off switches, 16 A and 25 A with switch position indication


2CCC441036F0001


2CCC441035F0001

Contact config.	Rated voltage VAC	Power loss W	LED Colour	Width mm	Order data Type	Product No.	Bbn 7612270 EAN	Weight per unit kg	Pack. unit unit
Rated current = 16 A									
1 NO	250	0.50	amber	9	**E211X-16-10**	2CCA703100R0001	**938872**	0.040	10
2 NO	250,400	1.00	amber	18	**E211X-16-20**	2CCA703110R0001	**938889**	0.050	10
3 NO	250,400	1.50	amber	18	**E211X-16-30**	2CCA703115R0001	**938896**	0.060	10
Rated current = 25 A									
1 NO	250	1.15	amber	9	**E211X-25-10**	2CCA703101R0001	**938902**	0.040	10
2 NO	250,400	2.30	amber	18	**E211X-25-20**	2CCA703111R0001	**938919**	0.050	10
3 NO	250,400	3.45	amber	18	**E211X-25-30**	2CCA703116R0001	**938926**	0.060	10

NO = normally-open contact

Ordering data

Change over and group switches

Change over switches, 16 A and 25 A



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Contact config.	Rated voltage VAC	Power loss W	LED Colour	Width mm	Order data Type	Product No.	Bbn 7612270 EAN	Weight per unit kg	Pack. unit unit
Rated current = 16 A									
1 CO	250	0.32	-	9	**E213-16-001**	2CCA703040R0001	**938698**	0.041	10
2 CO	250	0.82	-	18	**E213-16-002**	2CCA703045R0001	**938704**	0.082	10



2CCC441016F0001

Rated current = 25 A									
1 CO	250	0.40	-	9	**E213-25-001**	2CCA703041R0001	**938711**	0.041	10
2 CO	250	0.88	-	18	**E213-25-002**	2CCA703046R0001	**938728**	0.082	10

Group switches I-0-II 16 A and 25 A



2CCC441019F0001

Contact config.	Rated voltage VAC	Power loss W	LED Colour	Width mm	Order data Type	Product No.	Bbn 7612270 EAN	Weight per unit kg	Pack. unit unit
Rated current = 16 A									
1 CO	250	0.32	-	9	**E214-16-101**	2CCA703025R0001	**938735**	0.041	10
2 CO	250	0.82	-	18	**E214-16-202**	2CCA703030R0001	**938742**	0.082	10



2CCC441020F0001

Rated current = 25 A									
1 CO	250	0.40	-	9	**E214-25-101**	2CCA703026R0001	**938759**	0.041	10
2 CO	250	0.88	-	18	**E214-25-202**	2CCA703031R0001	**938766**	0.082	10

CO = changeover contact

Ordering data

Control switches and pushbuttons

Control switches, 16 A and 25 A



2CCC441023F0001

Contact config.	Rated voltage VAC	Power loss W	LED Colour	Width mm	Order data Type	Product No.	Bbn 7612270 EAN	Weight per unit kg	Pack. unit unit
Rated current = 16 A									
1NO+1NC	250	0.50	-	9	**E218-16-11**	2CCA703050R0001	**938773**	0.041	10
2NO+2NC	250	1.00	-	18	**E218-16-22**	2CCA703060R0001	**938780**	0.082	10
3NO+1NC	250	1.50	-	18	**E218-16-31**	2CCA703065R0001	**938797**	0.082	10



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Rated current = 25 A									
1NO+1NC	250	0.75	-	9	**E218-25-11**	2CCA703051R0001	**938803**	0.041	10

Pushbutton, 16 A - 6 different pushbutton colours (Pulse contact operation)



2CCC441029F0001

Contact config.	Rated voltage VAC	Power loss W	Button Colour	Width mm	Order data Type	Product No.	Bbn 7612270 EAN	Weight per unit kg	Pack. unit unit
Rated current = 16 A									
1NO+1NC	250	0.50	grey	9	**E215-16-11B**	2CCA703150R0001	**938810**	0.046	10
1NO+1NC	250	0.50	red	9	**E215-16-11C**	2CCA703151R0001	**938827**	0.046	10
1NO+1NC	250	0.50	green	9	**E215-16-11D**	2CCA703152R0001	**938834**	0.046	10
1NO+1NC	250	0.50	amber	9	**E215-16-11E**	2CCA703153R0001	**938841**	0.046	10
1NO+1NC	250	0.50	black	9	**E215-16-11F**	2CCA703154R0001	**938858**	0.046	10
1NO+1NC	250	0.50	blue	9	**E215-16-11G**	2CCA703155R0001	**938865**	0.046	10

NO = normally-open contact
NC = normally-closed contact

Ordering data

Pushbutton, lit

Pushbutton, 16 A, lit - 5 different LED colours (Pulse contact operation)

The pushbuttons with LEDs are available in 12 to 48 V versions for DC or AC voltage, 115 - 250 V AC voltage and 110 - 220 V DC voltage.



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Contact config.	Rated voltage VAC	Power loss W	LED Colour	Width mm	Order data Type	Product No.	Bbn 7612270 EAN	Weight per unit kg	Pack. unit unit
Rated LED voltage = 115-250 VAC									
1 NO	250	1.10	white	9	**E217-16-10B**	2CCA703160R0001	**938988**	0.050	10
1 NO	250	1.10	red	9	**E217-16-10C**	2CCA703161R0001	**938995**	0.050	10
1 NO	250	1.10	green	9	**E217-16-10D**	2CCA703162R0001	**939008**	0.050	10
1 NO	250	1.10	amber	9	**E217-16-10E**	2CCA703163R0001	**939015**	0.050	10
1 NO	250	1.10	blue	9	**E217-16-10G**	2CCA703164R0001	**939022**	0.050	10
1 NC	250	1.10	white	9	**E217-16-01B**	2CCA703250R0001	**939084**	0.050	10
1 NC	250	1.10	red	9	**E217-16-01C**	2CCA703251R0001	**939091**	0.050	10
1 NC	250	1.10	green	9	**E217-16-01D**	2CCA703252R0001	**939107**	0.050	10
1 NC	250	1.10	amber	9	**E217-16-01E**	2CCA703253R0001	**939114**	0.050	10
1 NC	250	1.10	blue	9	**E217-16-01G**	2CCA703254R0001	**939121**	0.050	10
Rated LED voltage = 12-48 VAC/DC									
1 NO	250	0.72	white	9	**E217-16-10B48**	2CCA703170R0001	**938933**	0.050	10
1 NO	250	0.72	red	9	**E217-16-10C48**	2CCA703171R0001	**938940**	0.050	10
1 NO	250	0.72	green	9	**E217-16-10D48**	2CCA703172R0001	**939957**	0.050	10
1 NO	250	0.72	amber	9	**E217-16-10E48**	2CCA703173R0001	**939964**	0.050	10
1 NO	250	0.72	blue	9	**E217-16-10G48**	2CCA703174R0001	**939971**	0.050	10
1 NC	250	0.72	white	9	**E217-16-01B48**	2CCA703260R0001	**939039**	0.050	10
1 NC	250	0.72	red	9	**E217-16-01C48**	2CCA703261R0001	**939046**	0.050	10
1 NC	250	0.72	green	9	**E217-16-01D48**	2CCA703262R0001	**939053**	0.050	10
1 NC	250	0.72	amber	9	**E217-16-01E48**	2CCA703263R0001	**939060**	0.050	10
1 NC	250	0.72	blue	9	**E217-16-01G48**	2CCA703264R0001	**939077**	0.050	10
Rated LED voltage = 110-220 VDC									
1 NO	250	1.50	white	9	**E217-16-10B220**	2CCA703165R0001	**938138**	0.050	10
1 NO	250	1.50	red	9	**E217-16-10C220**	2CCA703166R0001	**938145**	0.050	10
1 NO	250	1.50	green	9	**E217-16-10D220**	2CCA703167R0001	**939152**	0.050	10
1 NO	250	1.50	amber	9	**E217-16-10E220**	2CCA703168R0001	**939169**	0.050	10
1 NO	250	1.50	blue	9	**E217-16-10G220**	2CCA703169R0001	**939176**	0.050	10
1 NC	250	1.50	white	9	**E217-16-01B220**	2CCA703255R0001	**939183**	0.050	10
1 NC	250	1.50	red	9	**E217-16-01C220**	2CCA703256R0001	**939190**	0.050	10
1 NC	250	1.50	green	9	**E217-16-01D220**	2CCA703257R0001	**939206**	0.050	10
1 NC	250	1.50	amber	9	**E217-16-01E220**	2CCA703258R0001	**939213**	0.050	10
1 NC	250	1.50	blue	9	**E217-16-01G220**	2CCA703259R0001	**939220**	0.050	10

NO = normally-open contact
NC = normally-closed contact

Ordering data

Indicator lights and accessories

E219 indicator lights - 5 different LED colours

The indicator lights are available in 12 to 48 V versions for DC or AC voltage, 115-250 V AC voltage and in a version for 110-220 V DC voltage.
All code colours white, red, green, amber and blue are available for the well-known functions:

Neutral	= white
Emergency	= red
Abnormal operation	= amber
Normal operation	= green
Compelling action	= blue


2CCC441075F0001

Contact config.	Rated voltage VAC	Power. loss W	LED Colour	Width mm	Order data Type	Product No.	Bbn 7612270 EAN	Weight per unit kg	Pack. unit unit
Rated LED voltage = 115-250 VAC									
-	-	0.47	white	9	**E219-B**	2CCA703400R0001	**939282**	0.04	10
-	-	0.47	red	9	**E219-C**	2CCA703401R0001	**939299**	0.04	10
-	-	0.47	green	9	**E219-D**	2CCA703402R0001	**939305**	0.04	10
-	-	0.47	amber	9	**E219-E**	2CCA703403R0001	**939312**	0.04	10
-	-	0.47	blue	9	**E219-G**	2CCA703404R0001	**939329**	0.04	10
Rated LED voltage = 12-48 VAC/DC									
-	-	0.40	white	9	**E219-B48**	2CCA703420R0001	**939237**	0.04	10
-	-	0.40	red	9	**E219-C48**	2CCA703421R0001	**939244**	0.04	10
-	-	0.40	green	9	**E219-D48**	2CCA703422R0001	**939251**	0.04	10
-	-	0.40	amber	9	**E219-E48**	2CCA703423R0001	**939268**	0.04	10
-	-	0.40	blue	9	**E219-G48**	2CCA703424R0001	**939275**	0.04	10
Rated LED voltage = 110-220 VDC									
-	-	1.00	white	9	**E219-B220**	2CCA703405R0001	**939336**	0.04	10
-	-	1.00	red	9	**E219-C220**	2CCA703406R0001	**939343**	0.04	10
-	-	1.00	green	9	**E219-D220**	2CCA703407R0001	**939350**	0.04	10
-	-	1.00	amber	9	**E219-E220**	2CCA703408R0001	**939367**	0.04	10
-	-	1.00	blue	9	**E219-G220**	2CCA703409R0001	**939374**	0.04	10


2CCC441089F0001

Accessories for the E210 device series

	Width mm	Order data Type	Product No.	Bbn 7612271 EAN	Weight per unit kg	Pack. unit unit
Dummy housings	9	**E210-DH**	2CCA703480R0001	**404208**	0.18	10

The modular width of 18 mm must be complied with to use the devices in the SMISSLINE socket system. The dummy housing is ready-made with two expanding connectors. Always snap on dummy housings on the left.


2CCC441088F0001
9 mm


40656
18 mm

Lock for 9mm wide units	**E210-ASV9**	2CCA703648R0001	**404215**	10
Lock for 18mm wide units	**ZQB800**	2CCF010016R0001	**403492**	10

Ordering data

Main switches, 63 A und 80 A

E463/3-KB, E480/3-KB and E463/3-SL

These compact main switches can be used as entrance switches or as main switches in subdistribution boards. They are equipped with a fast mount for DIN rail mounting and offer optimum connection convenience.



40070

Contact config.	Rated voltage VAC	Power loss W	Width mm	Order data Type	Product No. EAN	Bbn 7612270	Weight per unit kg	Pack. unit unit
Rated current = 63 A								
3 NO	400	5.4	44	**E463/3-KB**	2CCE160300R0131	**932528**	190	1/50
Rated current = 80 A								
3 NO	400	9.9	44	**E480/3-KB**	2CCE180300R0141	**932542**	210	1/50



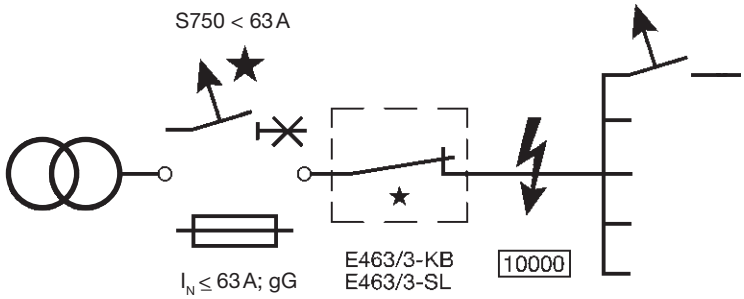
40071

Rated current = 63 A (lockable with utility key and also lead-sealable and lockable with a padlock)								
3 NO	400	5.5	44	**E463/3-SL**	2CCE160301R0131	**932535**	195	1/50

NO = normally-open contact

Special features

Tested in compliance with DIN EN 60669-1; VDE 0632 Part 1
Short-circuit resistance: 10 kA, 400 V~
The switches E463/3-KB and E463-SL marked by * comply with the “Technical Conditions for Connection” and also comply with the short-circuit resistance detailed therein of 10 kA for equipment between the last overcurrent protector before the measuring unit and the circuit distribution board.



Generall On-off switches, pushbuttons, indicator lights

Overall depth	68 mm
Width	0.5 or 1 module (9 or 18 mm)
Colour	grey, RAL 7035
Climatic resistance to	IEC 60068-2-2 (dry heat) IEC 60068-2-30 (humid heat) IEC 60068-2-1 (low temperatures)
Ambient temperature	-25°C to +55°C
Storage temperature	-40°C to +70°C
Connection cross-section (Cu)	from 1 x 1 mm^2 to 1 x 6 mm^2 or 2 x 2.5 mm^2 solid; from 1 x 0.75 mm^2 to 2 x 1.5 mm^2 flexible with end ferrule or pin cable lug
Tightening torque	1.8 Nm
Contacts	Double interrupting

On-off switches (E211; E211X)

Short-circuit withstand capacity I_{nc}	3 kA; at 400 V cos φ = 0.8 (with fusing ≤35 A / NH00)
Rated current I_n	16 A, 25 A, 32 A
Rated voltage U_n	
in accordance with EN	250 V AC, 400 V AC
in accordance UL 508	240 V AC
Lowest operating voltage	24 V AC
Rated impulse withstand voltage U_{imp}	6 kV
Isolating features	to EN60669-2-4
LED voltage ranges	On-off switches E211X 115-250 V AC
Frequency	50/60 Hz
Sealable	in the On and Off positions
Standards	DIN EN 60669-1 *VDE 0632-1 DIN EN 60669-2-4 *VDE 0632-2-4 UL 508
Approvals	VDE; UL

Change over, Group- and Control- switches (E213; E214; E218) Pushbuttons without and with LED (E215; E217)

Rated current I_n	16 A, 25 A
Rated voltage U_n	
in accordance with EN	250 V AC, 400 V AC
in accordance UL 508	240 V AC
Rated impulse withstand voltage U_{imp}	6 kV
Lowest operating voltage	24 V AC
LED voltage ranges	12-48 V AC/DC; 115-250 V AC; 110-220 V DC
Frequency	50/60 Hz
Switches sealable	in the On and Off positions
Standards	DIN EN 60669-1 *VDE 0632-1 UL 508
Approvals	VDE; UL

Indicator lights (E219)

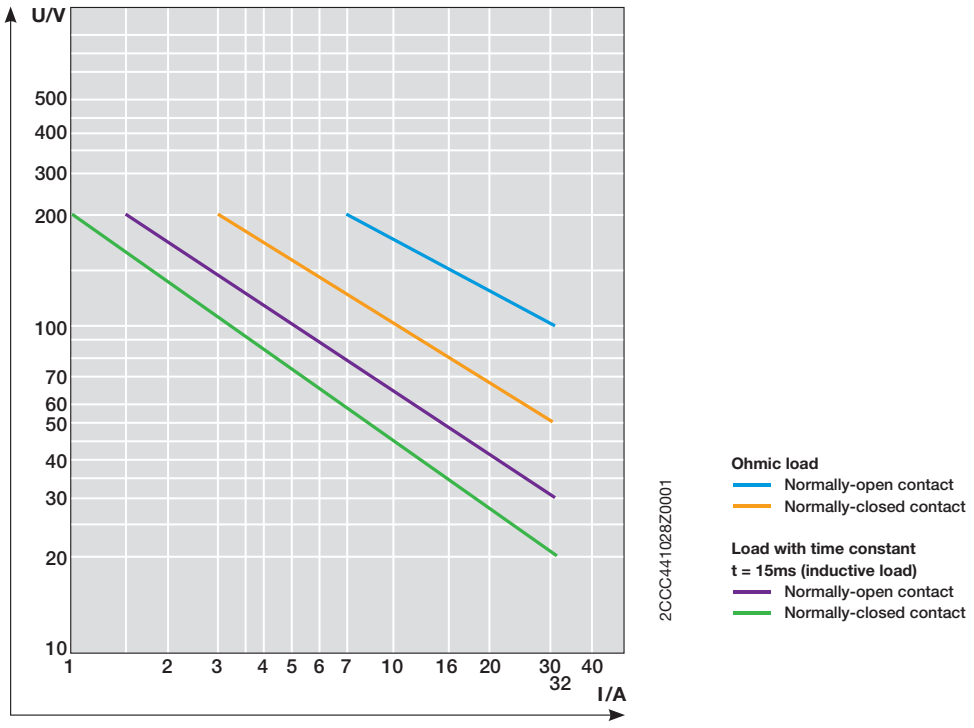
LED voltage ranges	12-48 V AC/DC; 115-250 V AC; 110-220 V DC
Standards	DIN EN 62094-1 UL 508
Approvals	VDE; UL

Technical data

Main switches, 63 A und 80 A

Overall depth	68 mm
Width	2.5 modules (44 mm)
Colour	grey, RAL 7035
Switching capacity	1.25 x I_n ; 1.1 x U_n; cos φ = 0.6 to DIN VDE 0632
Rated current I_n	63 and 80 A
Rated voltage U_n	250/400 V AC
Lowest operating voltage	24 V AC / DC
Isolating features	to IEC 60947-3
Frequency	50/60 Hz
Sealable	in the On and Off positions
Touch protection	to DIN VDE 0106 Part 100 (VBG4)
Ambient temperature	-25°C to +55°C
Storage temperature	-40°C to +70°C
Connection cross-section (Cu)	1 mm² flexible with end ferrule or pin cable lug 0.5 mm² to 25 mm² solid wire
Tightening torque	max. 3 Nm
Contacts	3 normally-open contacts (double interruption)
Standards	DIN EN 60669-1 *VDE 0632-1
Approvals	VDE

E211 DC switching capacity



Pushbuttons and indicator lights

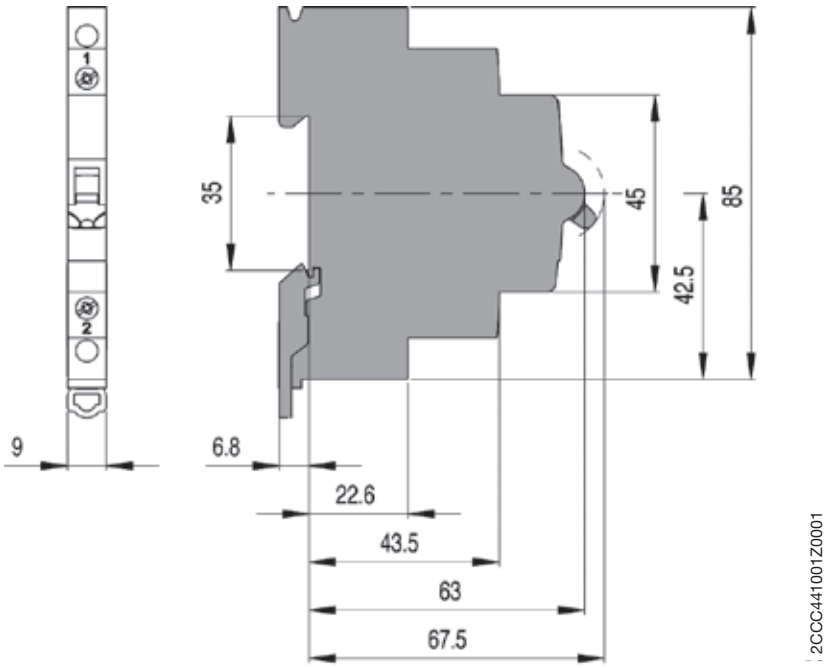
Overview of general meanings of the colours of operator control parts (excerpt from VDE 0199 or DIN EN 60073).

Colour	Meaning	Explanation	Application examples
RED	Emergency	Action in hazardous situations or emergency	EMERGENCY STOP, STOP or OFF with EMERGENCY STOP pushbutton Initiating an emergency function
YELLOW	Abnormal	Action if an abnormal condition is present	Intervention required to suppress the abnormal condition, manual intervention to restart an interrupted automatic cycle
GREEN	Safety	Action in safe conditions or to prepare a normal condition	Activation
BLUE	Regulation	Status requiring action	Reset function
WHITE GREY BLACK	Non-specific	Functions start	Available for any functions except, except for EMERGENCY STOP, e.g. OFF/ON, STOP/START

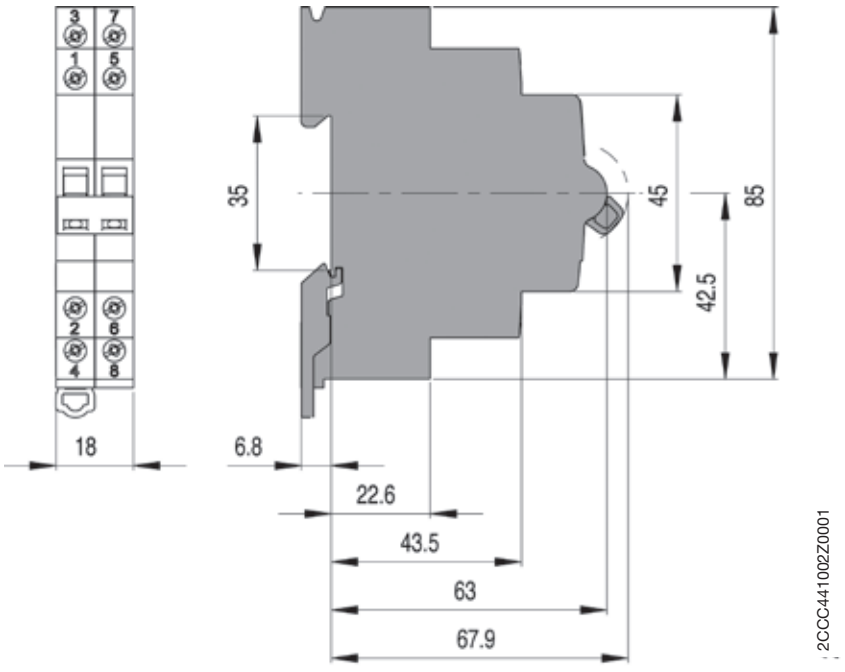
Dimensions (in mm)

Switches, pushbuttons and indicator lights, 16 A, 25 A and 32 A

Switch, 1+2-pole

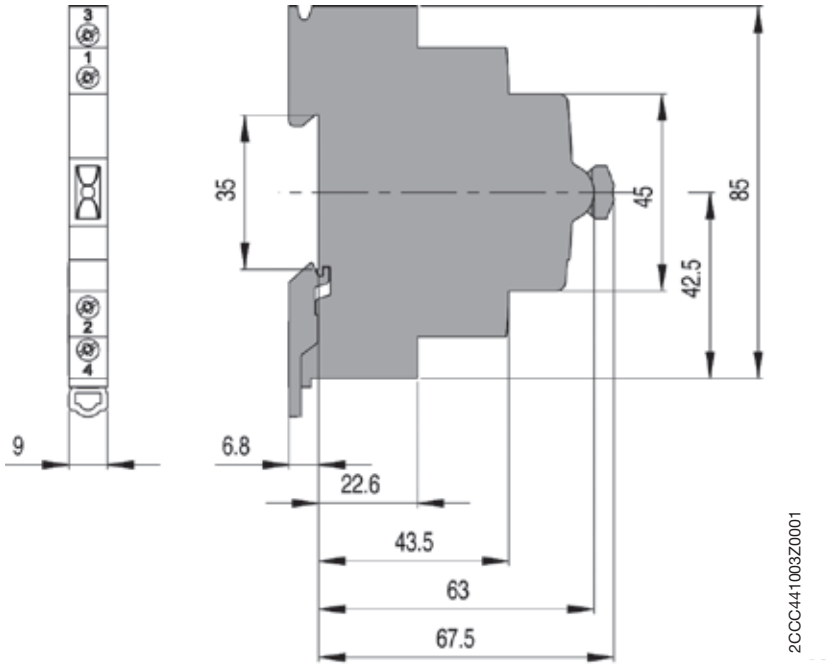


Switch, 3+4-pole

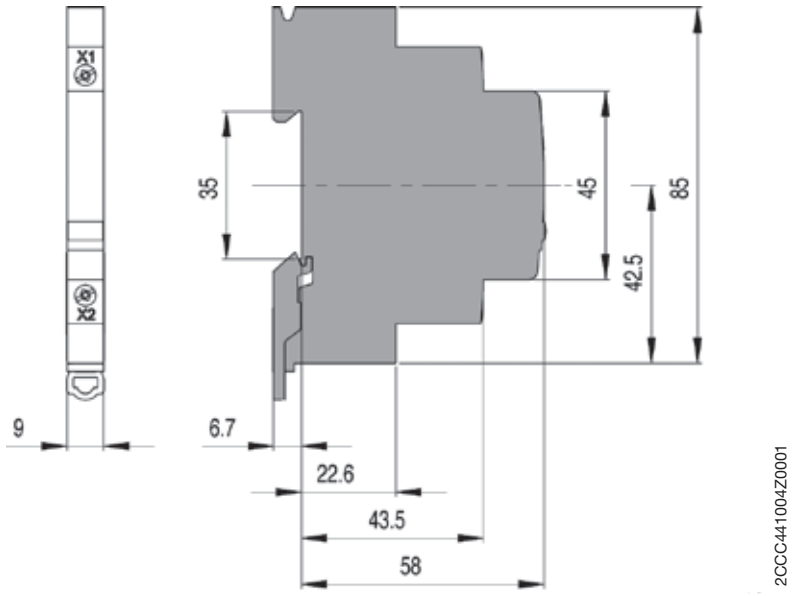


Dimensions (in mm)

Pushbuttons

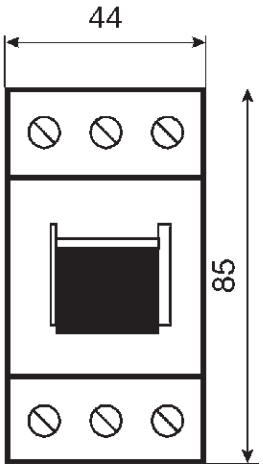


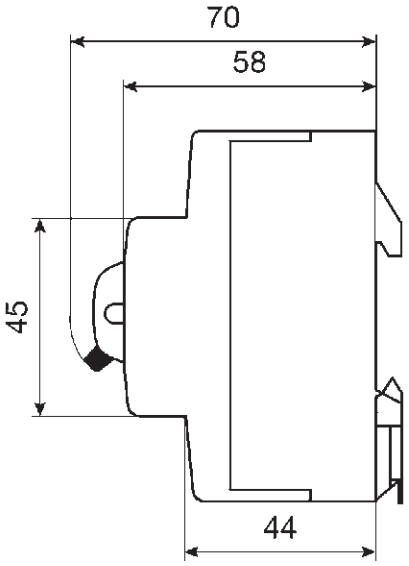
Indicator lights



Main switches

E463/3-KB, E463/3-SL, E480/3-KB





Modular comand devices

		Germany	Denmark	Norway	Russia	Switzer-land	USA	Poland	China	Shipping classification companies		
		VDE	DEMKO	NEMKO	GOST	ESTI	UR	BBJ	CCC	RINA	GL	LR
Switches	E211	■			□		■		□			
Two-way switches	E213	■			□		■		□			
Group switches	E214	■			□		■		□			
Control switches	E218	■			□		■		□			
Pushbuttons	E215	■			□		■		□			
Luminous pushbuttons	E217	■			□		■		□			
Indicator lights	E219	■			□		■		□			
Master switches	E463/3 KB	■										
	E480/3 KB	■										
	E463/3 SL	■										

■ Devices are approved

□ in preparation

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