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[™]

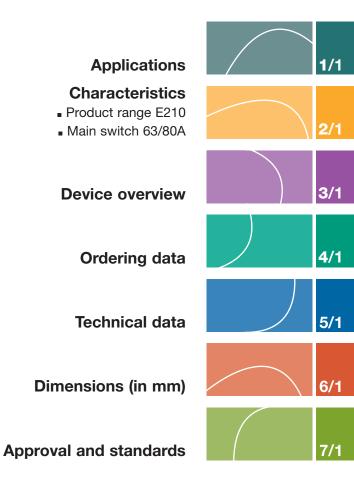


Half-size. Strong effect.

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

Can be used in the SMISSLINE socket system







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 9mm (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:

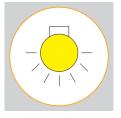
- Phase monitoring
- Manual flap controls (ventilation systems)
- Switching pumps On/Off
- Manual -0-Automatic changeover
- Manual changeover of two-speed machines

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



Lighting systems



On-off switches

tions.

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

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 installa-

Pushbuttons and pushbuttons with LED (puls contact operation)

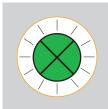
Issuing of commands to latching relay or miniature contactors with visual feedback.

Air conditioners and fans





Signalling



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)

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)

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).



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

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 = 18mm (1 modular width)



On-Off switches, 16A and 25A 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 = 18mm (1 modular width)



Change over switches, 16A and 25A

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)



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

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)

On-off switches, pushbuttons, indicator lights

2CCC441023F0001

2CCC441028F000

Control switches, 16A and 25A

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)



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 pushbuttons' 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 9mm (0.5 modular width)



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.



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 |

System pro M compact®

Special features

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.

Special features





Main switches E463 and E480



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 10kA 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



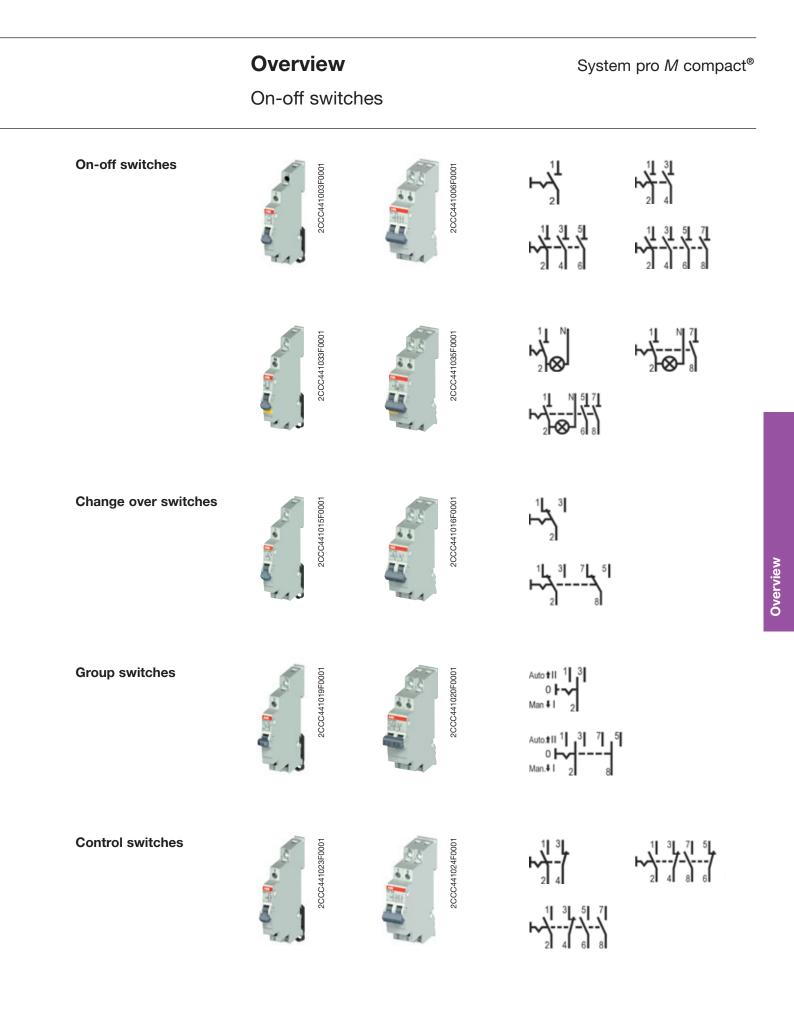
Lockable 63 A main switch (Special version for the German market)

Examples:

As a main switch

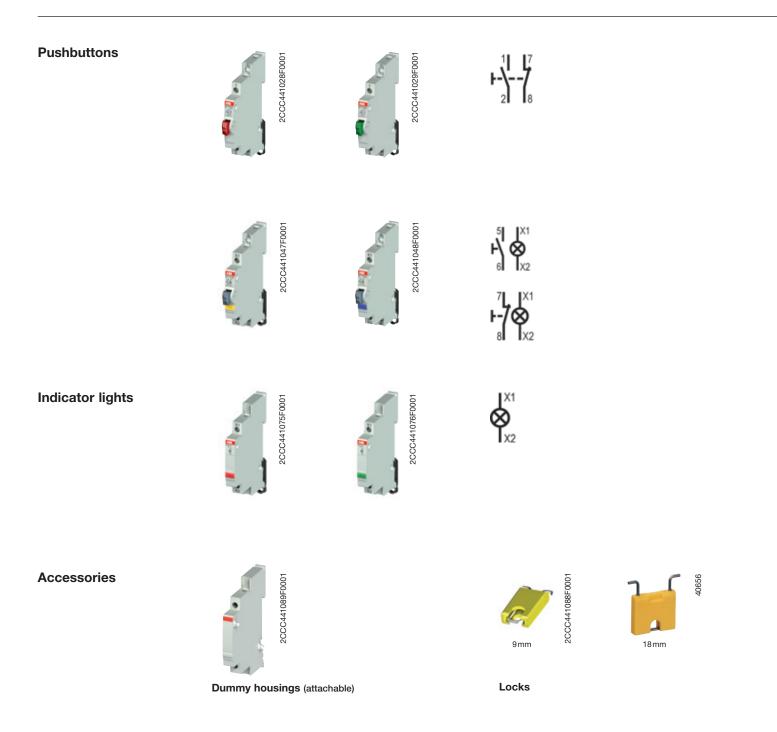
- at market stalls and fairground attraction booths
- in allotment colonies (manual entrance switch)
- for outdoor sockets
- electricity supply feeders on campsites
- in home studios or workshops as main machine switch
- for meter distribution boards

System pro M compact®



Overview

Pushbuttons, indicator lights and accessories



Overview

System pro M compact®

Main switches

Master switches



Main switches, 63 and 80 A



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

On-off switches

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

| | config. volt- age | Rated volt- | Power loss | | Width Order data | | Product No. | Bbn 7612270 | Weight per unit | Pack. unit |
|-----------------|----------------------|-----------------------|---------------|---|------------------|------------|-----------------|----------------|--------------------|---------------|
| | | VAC | W | | mm | Туре | | EAN | kg | unit |
| 001 | Rated cu | irrent = ⁻ | 16A | | | | | | | |
| 3F0 | 1 NO | 250 | 0.32 | - | 9 | E211-16-10 | 2CCA703000R0001 | 938575 | 0.035 | 10 |
| 8 | 2 NO | 250,400 | 0.82 | - | 9 | E211-16-20 | 2CCA703005R0001 | 938582 | 0.045 | 10 |
| -44 | 3 NO | 250,400 | 1.14 | - | 18 | E211-16-30 | 2CCA703010R0001 | 938599 | 0.080 | 10 |
| 2CCC441003F0001 | 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

2CCC441006F0001

| 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, 16A and 25A with switch position indication

| 2CCC441036F0001 | Contact config. | Rated volt- | Power loss | LED Colour | Width | Order data | Product No. | Bbn 7612270 | Weight per unit | Pack. unit |
|-----------------|--------------------|----------------|---------------|---------------|-------|-------------|-----------------|----------------|--------------------|---------------|
| 3441036 | | age VAC | W | | mm | Туре | | EAN | kg | unit |
| 2000 | Rated cu | irrent = 1 | 16A | | | | | | | |
| | 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

Change over and group switches

Change over switches, 16A and 25A



| C441015F0001 | Contact config. | Rated volt- | Power loss | LED Colour | Width | Order data | Product No. | Bbn 7612270 | Weight per unit | Pack. unit |
|--------------|--------------------|-----------------------|---------------|---------------|---------|-------------|-----------------|----------------|--------------------|---------------|
| | age VAC W | | W | | mm Type | | | EAN | kg | unit |
| 20002 | Rated cu | irrent = ⁻ | 16A | | | | | | | |
| | 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 |



| -0001 | Rated current = 25 A |
|-------|----------------------|
|-------|----------------------|

| LG LG | | | | | | | | | | |
|---------|------|-----|------|---|----|-------------|-----------------|--------|-------|----|
| 1016F | 1 CO | 250 | 0.40 | - | 9 | E213-25-001 | 2CCA703041R0001 | 938711 | 0.041 | 10 |
| 2CCC441 | 2 CO | 250 | 0.88 | - | 18 | E213-25-002 | 2CCA703046R0001 | 938728 | 0.082 | 10 |

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



| | Contact config. | Rated volt- | Power loss | LED Colour | Width | Order data | Product No. | Bbn 7612270 | Weight per unit | Pack. unit |
|-------|--------------------|----------------|---------------|---------------|-------|-------------|-----------------|----------------|--------------------|---------------|
| 1013 | | age VAC | W | | mm | Туре | | EAN | kg | unit |
| 40004 | Rated cu | rrent = 1 | 6A | | | | | | | |
| | 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 |



Rated current = 25 A

| PF0C | 1 CO | 250 | 0.40 | - | 9 | E214-25-101 | 2CCA703026R0001 | 938759 | 0.041 | 10 |
|------|------|-----|------|---|----|-------------|-----------------|--------|-------|----|
| 102(| 2 CO | 250 | 0.88 | - | 18 | E214-25-202 | 2CCA703031R0001 | 938766 | 0.082 | 10 |

CO = changeover contact

Control switches and pushbuttons

Control switches, 16A and 25A



| | Contact config. | Rated volt- | Power loss | LED Colour | Width | Order data | Product No. | Bbn 7612270 | Weight per unit | Pack. unit |
|-------|--------------------|----------------|---------------|---------------|-------|------------|-----------------|----------------|--------------------|---------------|
| 070 | | age VAC | W | | mm | Туре | | EAN | kg | unit |
| 10007 | Rated cu | rrent = 1 | 6A | | | | | | | |
| | 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 |



| 1024F0001 | Rated cur | rent = 2 | 25A | | | | | | | |
|-----------|-----------|----------|------|---|---|------------|-----------------|--------|-------|----|
| 244 | 1NO+1NC 2 | 250 | 0.75 | - | 9 | E218-25-11 | 2CCA703051R0001 | 938803 | 0.041 | 10 |
| 00 | | | | | | | | | | |

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



| Contact config. | Rated volt- | Power loss | Button Colour | Width | Order data | Product No. | Bbn 7612270 | Weight per unit | Pack. unit |
|-----------------|-----------------------|---------------|------------------|-------|-------------|-----------------|----------------|--------------------|---------------|
| | age VAC | W | | mm | Туре | | EAN | kg | unit |
| Rated cu | urrent = ⁻ | 16A | | | | | | | |
| 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

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.

| | Contact config. | Rated volt- age | Power loss | LED Colour | Width | Order data | Product No. | Bbn 7612270 | Weight per unit | Pack. unit |
|-----------------|-----------------|-----------------------|---------------|---------------|-------|-------------|-----------------|----------------|--------------------|---------------|
| | | VAC | W | | mm | Туре | | EAN | kg | unit |
| | Rated LE | D voltaç | ge = 1 | 15-250 | VAC | | | | | |
| 001 | 1 NO | 250 | 1.10 | white | 9 | E217-16-10B | 2CCA703160R0001 | 938988 | 0.050 | 10 |
| 2CCC441048F0001 | 1 NO | 250 | 1.10 | red | 9 | E217-16-10C | 2CCA703161R0001 | 938995 | 0.050 | 10 |
| 048 | 1 NO | 250 | 1.10 | green | 9 | E217-16-10D | 2CCA703162R0001 | 939008 | 0.050 | 10 |
| 441 | 1 NO | 250 | 1.10 | amber | 9 | E217-16-10E | 2CCA703163R0001 | 939015 | 0.050 | 10 |
| Õ | 1 NO | 250 | 1.10 | blue | 9 | E217-16-10G | 2CCA703164R0001 | 939022 | 0.050 | 10 |
| 2O | | | | | | | | | | |
| | 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 |



| 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

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 |
| | |

| Contact config. | volt- | Power. loss | LED Colour | Width | Order data | Product No. | Bbn 7612270 | Weight per unit | Pack. unit |
|-----------------|------------|----------------|---------------|-------|------------|-------------|----------------|--------------------|---------------|
| | age VAC | W | | mm | Туре | | EAN | kg | unit |



| Rated LED voltage = 115-2 | 50 VAC |
|---------------------------|--------|
|---------------------------|--------|

| - 026 | - | 0.47 | white | 9 | E219-B | 2CCA703400R0001 | 939282 | 0.04 | 10 |
|----------------|---|------|-------|---|--------|-----------------|--------|------|----|
| - 41 | - | 0.47 | red | 9 | E219-C | 2CCA703401R0001 | 939299 | 0.04 | 10 |
| Ö - | - | 0.47 | green | 9 | E219-D | 2CCA703402R0001 | 939305 | 0.04 | 10 |
| - ^S | - | 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 |



Accessories for the E210 device series

| | Width | Order data | Product No. | Bbn 7612271 | Weight per unit | Pack. unit |
|---------------------------------------|--------|---------------------|------------------------|------------------|--------------------|---------------|
| | mm | Туре | | EAN | kg | unit |
| Dummy housings | 9 | E210-DH | 2CCA703480R0001 | 404208 | 0.18 | 10 |
| The modular width of 18 mm must be co | mplied | I with to use the d | evices in the SMISSLIN | IE socket system | 1. The dummy h | ousing |

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



| 485.56 485.56 | Lo |
|------------------|----|
| 4 | Lo |
| 18 mm | |

| _ock or 9mm wide units | E210-ASV9 | 2CCA703648R0001 | 404215 | 10 |
|----------------------------|-----------|-----------------|--------|----|
| _ock or 18mm wide units | ZQB800 | 2CCF010016R0001 | 403492 | 10 |

Main switches, 63A und 80A

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 volt- | Power loss | Width | Order data | Product No. | Bbn 7612270 | Weight per unit | Pack. unit |
|--------------------|----------------|---------------|-------|------------|-----------------|----------------|--------------------|---------------|
| | age VAC | W | mm | Туре | EAN | | kg | unit |
| Rated cur | rent = 63 A | | | | | | | |
| 3 NO | 400 | 5.4 | 44 | E463/3-KB | 2CCE160300R0131 | 932528 | 190 | 1/50 |
| Rated cur | rent = 80A | | | | | | | |
| 3 NO | 400 | 9.9 | 44 | E480/3-KB | 2CCE180300R0141 | 932542 | 210 | 1/50 |



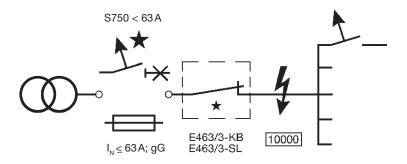
| | | ent = 63 A | (lockab | le with uti | lity key and also lead-s | ealable and lockable v | ith a padlock) | | |
|-----|------|------------|---------|-------------|--------------------------|------------------------|----------------|-----|------|
| 400 | 3 NO | 400 | 5.5 | 44 | E463/3-SL | 2CCE160301R0131 | 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: $10\,kA,\,400\,V{\sim}$

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.



System pro M compact®

Technical data

On-off switches, pushbuttons, indicator lights

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 | 1.8Nm |
| Contacts | Double interrupting |

On-off switches (E211; E211X)

| Short-circuit withstand capacity Inc | 3 kA; at 400 V cos ϕ = 0.8 (with fusing ${\leq}35\text{A}$ / NH00) |
|--|---|
| Rated current I | 16A, 25A, 32A |
| 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_{im} | ₅ 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 In | 16A, 25A |
|---|--|
| Rated voltage U | |
| in accordance with EN | 250 V AC, 400 V AC |
| in accordance UL 508 | 240 V AC |
| Rated impulse withstand voltage U _{im} | _p 6 kV |
| Lowest operating voltage | 24V AC |
| LED voltage ranges | 12-48V AC/DC; 115-250V AC; 110-220V 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 Standards

Approvals

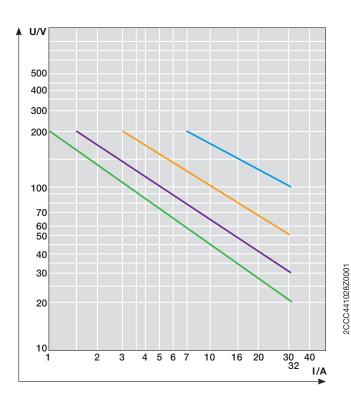
12-48V AC/DC; 115-250V AC; 110-220V DC DIN EN 62094-1 UL 508 VDE; UL

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 $\varphi = 0.6$ to DIN VDE 0632 |
| Rated current I | 63 and 80 A |
| Rated voltage U | 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) | 1mm ² flexible with end ferrule or pin cable lug |
| | 0.5 mm ² to 25 mm ² solid wire |
| Tightening torque | max. 3Nm |
| Contacts | 3 normally-open contacts (double interruption) |
| Standards | DIN EN 60669-1 *VDE 0632-1 |
| Approvals | VDE |

E211 DC switching capacity



Ohmic load Normally-open contact Normally-closed contact Load with time constant

t = 15ms (inductive load) Normally-open contact
Normally-closed contact

Pushbuttons and indicator lights

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

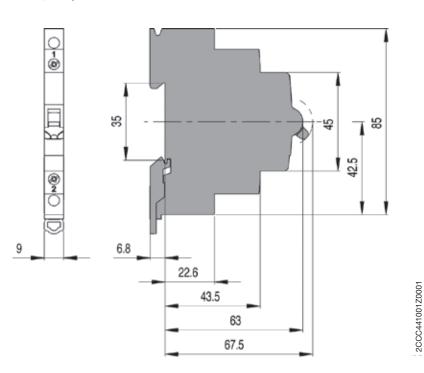
| Colour | Meaning | Explanation | Application examples |
|------------------------|--------------|--|---|
| RED | Emergency | Action in hazardous situations or emergency | EMERGENCY STOP, STOP or OFF with EMERGENCY STOP pushbutton Initiating an emergency function |
| YELLOW | Abnormal | Action if an 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)

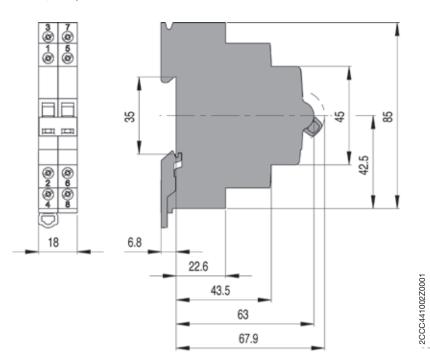
System pro *M* compact[®]

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

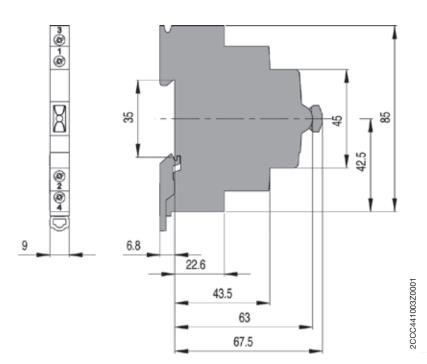
Switch, 1+2-pole



Switch, 3+4-pole

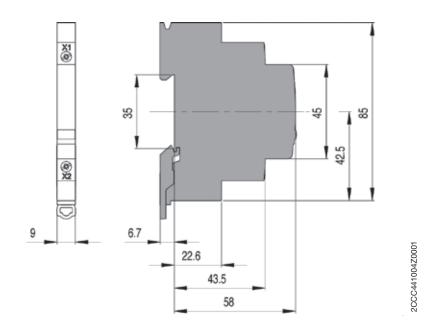


Dimensions (in mm)

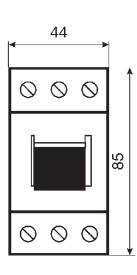


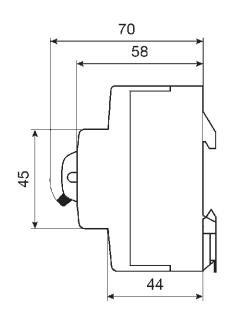
Pushbuttons

Indicator lights



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





On-off switches, pushbuttons, indicator lights

Modular comand devices

| | | Germany | Denmark | Norway | Russia | Switzer- land | USA | Poland | China | | ing classifi companies | |
|----------------------|-----------|---------|---------|--------------|----------|------------------|-----|--------|----------|------|---------------------------|----------|
| | | | D | \mathbb{N} | C | ŝ | 91 | ₿ | <u>۵</u> | ۲ | GL | illarde. |
| | | 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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