

■ CIRCUIT BREAKER 1-POLE UP TO 125 A WITH FIXED THERMAL MAGNETIC RELEASE TYPES MC1B-A, MC1C-A, MC1N-A, MC1H-A



MC112118

■ SCHRACK-INFO

- For system and line protection
- Fixed overload release I_r
- Fixed short-circuit release I_n
- Lift terminals as standard, screw terminals as accessories
- Breaking capacity 25 kA at 230/240 V, 50/60 Hz
- Specifications acc. to IEC/EN 60947-2
- Rated uninterrupted current = rated current
- Available accessories: cover for 1-pole screw terminal, screw terminal IP2x finger protection, toggle locking device
- For dimensions, see from page 677.

RATED CURRENT/ BREAKING CAPACITY	ADJUSTMENT RANGE		TYPE	EAN CODE	AVAILABLE	ORDER NO.
	OVERLOAD, RELEASE (A)	SHORT-CIRCUIT RELEASE (A)				
1-POLE (BASIC BREAKING CAPACITY) 25 kA			MC1B-1-AF..			
20 A/25 kA	20	350	MC1B-1-AF20	9004840664546		MC120118
25 A/25 kA	25	480	MC1B-1-AF25	9004840664553		MC125118
32 A/25 kA	32	480	MC1B-1-AF32	9004840664560		MC132118
40 A/25 kA	40	480	MC1B-1-AF40	9004840664577		MC140118
50 A/25 kA	50	750	MC1B-1-AF50	9004840664584		MC150118
63 A/25 kA	63	750	MC1B-1-AF63	9004840664591		MC163118
80 A/25 kA	80	1000	MC1B-1-AF80	9004840664614		MC180118
100 A/25 kA	100	1000	MC1B-1-AF00	9004840664621		MC110118
125 A/25 kA	125	1000	MC1B-1-AF125	9004840664638		MC112118

■ CIRCUIT BREAKER 3-POLE UP TO 160 A WITH THERMAL MAGNETIC RELEASE TYPES MC1B-A, MC1C-A, MC1N-A, MC1H-A



MC110231

■ SCHRACK-INFO

- For system and line protection
- Adjustable overload release I: 0.8 – 1 x I_n (factory setting 0.8 x I_n)
- Adjustable short-circuit release I: 6 – 10 x I_n (factory setting 6 x I_n); except MC.-A40: 8 - 10 x I_n
- Lift terminals as standard, screw terminals as accessories
- Breaking capacity 25 / 36 / 50 / 100 kA at 415 V 50/60 Hz
- Specifications acc. to IEC/EN 60947-2
- Rated uninterrupted current = rated current
- For dimensions, see from page 677.

ADJUSTMENT RANGE						
RATED CURRENT/ BREAKING CAPACITY	OVERLOAD, RELEASE (A)	SHORT-CIRCUIT RELEASE (A)	TYPE	EAN CODE	AVAILABLE	ORDER NO.
3-POLE (BASIC BREAKING CAPACITY) 25 kA						
20 A/25 kA	15...20	fix 350	MC1B-A20	9004840403268		MC120131
25 A/25 kA	20...25	fix 350	MC1B-A25	9004840403275		MC125131
32 A/25 kA	25...32	fix 350	MC1B-A32	9004840403282		MC132131
40 A/25 kA	32...40	320...400	MC1B-A40	9004840261745		MC140131
50 A/25 kA	40...50	300...500	MC1B-A50	9004840261752		MC150131
63 A/25 kA	50...63	380...630	MC1B-A63	9004840261769		MC163131
80 A/25 kA	63...80	480...800	MC1B-A80	9004840261776		MC180131
100 A/25 kA	80...100	600...1000	MC1B-A100	9004840261783		MC110131
125 A/25 kA	100...125	750...1250	MC1B-A125	9004840261790		MC112131
160 A/25 kA	125...160	fix 1280	MC1B-A160	9004840403299		MC116131
3-POLE (NORMAL BREAKING CAPACITY) 50 kA						
20 A/50 kA	15...20	fix 350	MC1N-A20	9004840403558		MC120231
25 A/50 kA	20...25	fix 350	MC1N-A25	9004840403565		MC125231
32 A/50 kA	25...32	fix 350	MC1N-A32	9004840403572		MC132231
40 A/50 kA	32...40	320...400	MC1N-A40	9004840261806		MC140231
50 A/50 kA	40...50	300...500	MC1N-A50	9004840261813		MC150231
63 A/50 kA	50...63	380...630	MC1N-A63	9004840261820		MC163231
80 A/50 kA	63...80	480...800	MC1N-A80	9004840261837		MC180231
100 A/50 kA	80...100	600...1000	MC1N-A100	9004840261844		MC110231
125 A/50 kA	100...125	750...1250	MC1N-A125	9004840261851		MC112231
160 A/50 kA	125...160	fix 1280	MC1N-A160	9004840403589		MC116231
3-POLE (HIGH BREAKING CAPACITY) 100 kA						
20 A/100 kA	15...20	fix 350	MC1H-A20	9004840628722		MC120331
25 A/100 kA	20...25	fix 350	MC1H-A25	9004840628739		MC125331
32 A/100 kA	25...32	fix 350	MC1H-A32	9004840628746		MC132331
40 A/100 kA	32...40	320...400	MC1H-A40	9004840628753		MC140331
50 A/100 kA	40...50	300...500	MC1H-A50	9004840628760		MC150331
63 A/100 kA	50...63	380...630	MC1H-A63	9004840628777		MC163331
80 A/100 kA	63...80	480...800	MC1H-A80	9004840628784		MC180331
100 A/100 kA	80...100	600...1000	MC1H-A100	9004840628791		MC110331
125 A/100 kA	100...125	750...1250	MC1H-A125	9004840628807		MC112331
160 A/100 kA	125...160	fix 1280	MC1H-A160	9004840628814		MC116331

■ CIRCUIT BREAKER 4-POLE UP TO 160 A WITH THERMAL MAGNETIC RELEASE TYPES MC1B-4-A, MC1C-4-A, MC1N-4-A, MC1H-4-A



MC120141

■ SCHRACK-INFO

- For system and line protection
- 100% overload and short-circuit protection
- Adjustable overload release I: 0.8 – 1 x I_n (factory setting 0.8 x I_n)
- Adjustable short-circuit release I: 6 – 10 x I_n (factory setting 6 x I_n); except MC.-A40: 8 - 10 x I_n
- Lift terminals as standard, screw terminals as accessories
- Breaking capacity 25 / 36 / 50 /kA at 415 V 50/60 Hz
- Specifications acc. to IEC/EN 60947-2
- Rated uninterrupted current = rated current
- For dimensions, see from page 677.

ADJUSTMENT RANGE						
RATED CURRENT/ BREAKING CAPACITY	OVERLOAD, RELEASE (A)	SHORT-CIRCUIT RELEASE (A)	TYPE	EAN CODE	AVAILABLE	ORDER NO.
4-POLE (BASIC BREAKING CAPACITY) 25 kA						
20 A/25 kA	15...20	fix 350	MC1B-4-A20	9004840403596		MC120141
25 A/25 kA	20...25	fix 350	MC1B-4-A25	9004840403602		MC125141
32 A/25 kA	25...32	fix 350	MC1B-4-A32	9004840403619		MC132141
40 A/25 kA	32...40	320...400	MC1B-4-A40	9004840385441		MC140141
50 A/25 kA	40...50	300...500	MC1B-4-A50	9004840385458		MC150141
63 A/25 kA	50...63	380...630	MC1B-4-A63	9004840385465		MC163141
80 A/25 kA	63...80	480...800	MC1B-4-A80	9004840385472		MC180141
100 A/25 kA	80...100	600...1000	MC1B-4-A100	9004840385427		MC110141
125 A/25 kA	100...125	750...1250	MC1B-4-A125	9004840385434		MC112141
160 A/25 kA	125...160	fix 1280	MC1B-4-A160	9004840403626		MC116141
4-POLE (NORMAL BREAKING CAPACITY) 50 kA						
20 A/50 kA	15...20	fix 350	MC1N-4-A20	9004840403633		MC120241
25 A/50 kA	20...25	fix 350	MC1N-4-A25	9004840403640		MC125241
32 A/50 kA	25...32	fix 350	MC1N-4-A32	9004840403657		MC132241
40 A/50 kA	32...40	320...400	MC1N-4-A40	9004840385588		MC140241
50 A/50 kA	40...50	300...500	MC1N-4-A50	9004840385595		MC150241
63 A/50 kA	50...63	380...630	MC1N-4-A63	9004840385694		MC163241
80 A/50 kA	63...80	480...800	MC1N-4-A80	9004840385700		MC180241
100 A/50 kA	80...100	600...1000	MC1N-4-A100	9004840385564		MC110241
125 A/50 kA	100...125	750...1250	MC1N-4-A125	9004840385571		MC112241
160 A/50 kA	125...160	fix 1280	MC1N-4-A160	9004840403664		MC116241



■ CIRCUIT BREAKER, 3-POLE UP TO 100 A WITH THERMAL MAGNETIC RELEASE TYPES MC1B-M, MC1C-M, MC1N-M



MC110236

■ SCHRACK-INFO

- For motor-protection
- Adjustable overload release I_l : $0.8 - 1 \times I_n$ (factory setting $0.8 \times I_n$); with phase failure sensitivity, tripping class 10 A ($2s < T_p \leq 10s$)
- Adjustable short-circuit release I_s : $8 - 14 \times I_n$ (ex-factory $12 \times I_n$); except MC1.-M100: $8 - 12.5 \times I_n$ (factory setting $12 \times I_n$)
- Lift terminals as standard, screw terminals as accessories
- Breaking capacity 25 / 36 / 50 kA at 415 V 50/60 Hz
- Specification acc. to IEC/EN 60947-4 and IEC/EN 60947-2
- Meet all requirements of utilisation category AC3 at 400 VAC
- For dimensions, see from page 677.

NOMINAL CURRENT/ BREAKING CAPACITY/ POWER/CURRENT	ADJUSTMENT RANGE			EAN CODE	AVAILABLE	ORDER NO.
	OVERLOAD RELEASE (A)	SHORT-CIRCUIT RELEASE (A)	TYPE			
3-POLE (BASIC BREAKING CAPACITY) 25 kA						
40 A/25 kA/18.5 kW/36 A	32...40	320...560	MC1B-M40	9004840385496		MC140136
50 A/25 kA/22 kW/41 A	40...50	400...700	MC1B-M50	9004840385502		MC150136
63 A/25 kA/30 kW/55 A	50...63	504...882	MC1B-M63	9004840385519		MC163136
80 A/25 kA/37 kW/68 A	63...80	640...1120	MC1B-M80	9004840385526		MC180136
100 A/25 kA/55 kW/99 A	80...100	800...1250	MC1B-M100	9004840385489		MC110136
3-POLE (NORMAL BREAKING CAPACITY) 50 kA						
40 A/50 kA/18.5 kW/36 A	32...40	320...560	MC1N-M40	9004840385724		MC140236
50 A/50 kA/22 kW/41 A	40...50	400...700	MC1N-M50	9004840385731		MC150236
63 A/50 kA/30 kW/55 A	50...63	504...882	MC1N-M63	9004840385748		MC163236
80 A/50 kA/37 kW/68 A	63...80	640...1120	M80-MC1N	9004840385755		MC180236
100 A/50 kA/55 kW/99 A	80...100	800...1250	MC1N-M100	9004840385717		MC110236



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LOAD-BREAK SWITCH UP TO 160 A TYPES MC1-PN, MC1-PN-4, MC1-N, MC1-N-4



MC112044

SCHRACK-INFO

- Rated uninterrupted current up to 160 A
- MC1-PN two switch positions 0/I, no remote release
- MC1-N, with trip positions “0”, “+”; “1”, with remote release, can be equipped with undervoltage/shunt release and trip-indicating auxiliary contact
- Connection terminals as standard, screw terminals as accessories
- Properties of main switches including positive drive according to IEC/EN 60204 and VDE 0113
- Isolating characteristics according to IEC/EN 60947-3 and VDE 0660, protection against accidental contact according to VDE 0160 Part 100
- Specifications acc. to IEC/EN 60947-2
- Rated uninterrupted current = rated current
- Rated short-circuit breaking capacity: I_{cm} 2.8 kA
- Rated short-time current protection: I_{cw} 2 kA
- For dimensions, see from page 677.

RATED UNINTERRUPTED CURRENT	MAX. BACK-UP FUSE (gL) FOR LOAD-BREAK SWITCHES (AgL)	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
3-POLE, NO REMOTE RELEASE POSSIBLE					
63 A	125 A	MC1-PN-63	9004840262216		MC163034
100 A	125 A	MC1-PN-100	9004840262223		MC110034
125 A	125 A	MC1-PN-125	9004840262230		MC112034
160 A	160 A	MC1-PN-160	9004840551334		MC116034
4-POLE, NO REMOTE RELEASE POSSIBLE					
63 A	125 A	MC1-PN-4-63	9004840385816		MC163044
100 A	125 A	MC1-PN-4-100	9004840385762		MC110044
125 A	125 A	MC1-PN-4-125	9004840385809		MC112044
160 A	160 A	MC1-PN-4-160	9004840551341		MC116044
3-POLE, REMOTE RELEASE POSSIBLE					
63 A	125 A	MC1-N-63	9004840262254		MC163035
100 A	125 A	MC1-N-100	9004840262261		MC110035
125 A	125 A	MC1-N-125	9004840262278		MC112035
160 A	160 A	MC1-N-160	9004840614428		MC116035
4-POLE, REMOTE RELEASE POSSIBLE					
63 A	125 A	MC1-N-4-63	9004840385557		MC163045
100 A	125 A	MC1-N-4-100	9004840385533		MC110045
125 A	125 A	MC1-N-4-125	9004840385540		MC112045
160 A	160 A	MC1-N-4-160	9004840627237		MC116045



RESIDUAL-CURRENT RELEASE RELAY TYPES MC1-XFI.R, MC1-4-XFI.R, MC1-XFI.U, MC1-4-XFI.U



MC194608

SCHRACK-INFO

- Suitable for use in three- and single-phase systems
- Pulse current sensitive acc. to core-balance principle
- For 3- and 4-pole circuit breakers and load-break switches MC1, MC1-N, not for MC1-PN
- Dependant on mains power $U_e = 200 - 415 \text{ V } 50/60 \text{ Hz}$
- Meets IEC/EN 60947-2
- Bottom mounting up to 100 A, installed from the right up to 125 A
- Complete unit
- For dimensions, see from page 677.

TECHNICAL DATA

- At $I_{\Delta n} = 0.03 \text{ A}$: Time delay t_v permanently set to 10 ms.
- Alarm message $> 30 \% I_{\Delta n}$ via yellow LED.
- Trip-indicating auxiliary contacts can be fitted by user (max. 2 auxiliary contacts):
NO: Order No: MM216376, NC: Order No: MM216378 are reset via a reset toggle lever.
- When using the trip-indicating auxiliary contacts in the FI module, the NC contact works as an NO contact and the NO contact as an NC contact.
- Not for use in XCS insulated enclosures.
- Type MC1-XFI...U cannot be combined with shunt or undervoltage releases and an early-make auxiliary contact.
- Rated short-circuit breaking capacity values are determined by installed MC1 or when using a load-break switch MC1-N by the back-up fuse to be used.

FOR TYPE	RATED RESIDUAL CURRENT ($I_{\Delta n}$)	DELAY TIME (ms)	TYPE	EAN CODE	AVAILABLE	ORDER NO.
3-POLE ATTACHMENT FROM THE RIGHT UP TO 160 A 						
MC1/MC1-N	0.03	10	MC1-XFI30R	9004840507416		MC194603
MC1/MC1-N	0.3	10	MC1-XFI300R	9004840507454		MC194604
MC1/MC1-N	0.03-0.1-0.3-0.5-1-3	10, 60, 150, 300, 450	MC1-XFIR	9004840507478		MC194605
4-POLE ATTACHMENT FROM THE RIGHT UP TO 160 A 						
MC1-4 / MC1-N-4	0.03	10	MC1-4-XFI30R	9004840507447		MC194606
MC1-4 / MC1-N-4	0.3	10	MC1-4-XFI300R	9004840507461		MC194607
MC1-4 / MC1-N-4	0.03-0.1-0.3-0.5-1-3	10, 60, 150, 300, 450	MC1-4-XFIR	9004840507485		MC194608
3-POLE ATTACHMENT FROM THE BOTTOM UP TO 100 A 						
MC1/MC1-N	0.03	10	MC1-XFI30U	9004840587302		MC194609
MC1/MC1-N	0.3	10	MC1-XFI300U	9004840587319		MC194610
MC1/MC1-N	0.03-0.1-0.3-0.5-1-3	10, 60, 150, 300, 450	MC1-XFIU	9004840587326		MC194611
4-POLE ATTACHMENT FROM THE BOTTOM UP TO 100 A 						
MC1-4 / MC1-N-4	0.03	10	MC1-4-XFI30U	9004840587333		MC194612
MC1-4 / MC1-N-4	0.3	10	MC1-4-XFI300U	9004840587340		MC194613
MC1-4 / MC1-N-4	0.03-0.1-0.3-0.5-1-3	10, 60, 150, 300, 450	MC1-4-XFIU	9004840587524		MC194614

SOCKET AND PLUG-IN MODULE FOR MC1



MC196777

SCHRACK-INFO

- 3-pole version
- For circuit breaker MC1 and load-break switch MC1-N
- **Plug-in module only available in combination with switch**
- Socket can be ordered separately and pre-assembled
- Order control circuit plug unit separately
- Cannot be used in combination with MC1-XFI (residual current release relay)
- For dimensions, see from page 677.

TECHNICAL DATA

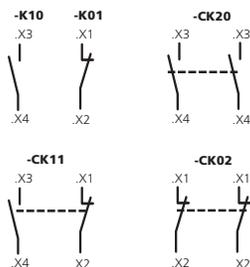
- I_n max. at 20 °C: 125A
at 70 °C: 100 A

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
SOCKET				
Socket, 3-pole	MC1-XSVS	9004840651614		MC196777
PLUG-IN MODULE				
Plug-in module, 3-pole (supplied with switch, add an S to end of switch part number)				
ACCESSORIES FOR PLUG-IN STYLE ASSEMBLY MC2/MC2-N				
Control circuit plug unit for aux switches, undervoltage/shunt release	MC1/2-XSVHI	9004840263664		MC296705

STANDARD AUXILIARY CONTACT / TRIP-INDICATING AUXILIARY CONTACT TYPE M22



MM216378



SCHRACK INFO

- Switches with the main contacts, used for indicating and interlocking tasks
- General trip indication "+" with trip due to voltage release, overload release or short-circuit-release

TECHNICAL DATA

Breaking capacity: AC15: 4 A / 230 VAC
DC13: 3 A / 24 VDC
M22-K: 0.3 A / 220 VDC
M22-CK: 0.2 A / 220 VDC

TIPS & TRICKS

The trip-indicating auxiliary contact is the same contact as the standard auxiliary contact. It derives its function from its place of installation (left is the alarm contact).

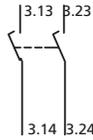
Maximum component installation MC1 with auxiliary contacts: 1 x standard auxiliary contact (HIN) M22-K.. or M22CK..
+ 1 x trip-indicating auxiliary contact (HIA) M22-K.. or M22-CK..

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
1 NO contact with screw terminals	M22-K10	9004840176254		MM216376
1 NC contact with screw terminals	M22-K01	9004840176261		MM216378
2 NO contacts with spring terminals	M22-CK20	9004840547047		MM107898
2 NC contacts with spring terminals	M22-CK02	9004840547054		MM107899
1 NO contact + 1 NC contact with spring terminals	M22-CK11	9004840625783		MM107940

EARLY-MAKE AUXILIARY CONTACT TYPE MC1-XHIVL



MC199432



SCHRACK INFO

- For interlock- and load-shedding circuits as well as for early make of undervoltage release in main switch/Emergency-stop applications.

TECHNICAL DATA

- Early-make during switch on and off (manual switch): approx. 20 ms
- Not in connection with undervoltage release
MC1-XU... or shunt release MC1-XA...
- Breaking capacity: AC15: 4 A / 230 VAC
DC13: 3 A / 24 VDC, 0.2 A / 220 VDC

TIPS & TRICKS

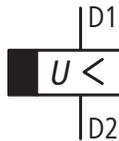
Maximum component installation MC1:
1 x early-make auxiliary contact

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Early-make auxiliary switch, 2 NO contacts including 3 m cable	MC1 XHIVL	9004840262292		MC199432

UNDERVOLTAGE RELEASE TYPES MC1-XUL



MC199471



SCHRACK INFO

- Non-delayed breaking of circuit breaker MC/load-breaking switch MC-N when the control voltage drops below 35% -70% Us.
- For use in Emergency Stop devices in connection with EMERGENCY STOP button
- Installed in breaker
- Without auxiliary contact
- Other voltages and connection versions available on request

TIPS & TRICKS

When the undervoltage release is de-energised, accidental contact with the main contacts of the switch is safely prevented during attempts to switch on. Undervoltage release cannot be installed simultaneously with a shunt release or early-make auxiliary contact MC1-XHIV.

VOLTAGE	VERSION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
24 VAC	incl. 3 m cable	MC1-XUL24AC	9004840262308		MC199462
24 VDC	incl. 3 m cable	MC1-XUL24DC	9004840262346		MC199481
208 - 240 VAC	incl. 3 m cable	MC1-XUL208-240 AC	9004840262322		MC199471
380 - 440 VAC	incl. 3 m cable	MC1-XUL380-440 AC	9004840262339		MC199473



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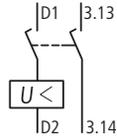
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■ UNDERVOLTAGE RELEASE WITH TWO EARLY-MAKE AUXILIARY CONTACTS TYPE MC1-XUHIVL



MC199565



■ SCHRACK INFO

- With 2 early-make auxiliary contacts
- For early-make of the undervoltage release in main switch applications and for interlock- and load-shedding circuits
- Installed in breaker
- Other voltages and connection versions available on request

■ TIPS & TRICKS

When the undervoltage release is de-energised, accidental contact with the main contacts of the switch is safely prevented during attempts to switch on. Early-make of auxiliary contacts during switch on and off (20 ms). Undervoltage release cannot be installed simultaneously with a shunt release or early-make auxiliary contact MC1-XHIV.

VOLTAGE	VERSION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
208 - 240 VAC	incl. 3 m cable	MC1-XUHIVL208-240 AC	9004840262421		MC199565
380 - 440 VAC	incl. 3 m cable	MC1-XUHIVL380-440 AC	9004840262438		MC199567

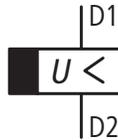
■ UNDERVOLTAGE RELEASE, OFF-DELAY TYPES MC-UVU, MC-XUVL



MC196154



MC191607



■ SCHRACK INFO

- Voltage drops of less than 16 s do not cause MC circuit breakers or MC-N load-break switches to trip.
- Voltage range:
 - 220-240 VAC 50/60 Hz
 - 380-440 VAC 50/60 Hz
 - 480-550 VAC 50/60 Hz
 - 24 VDC / AC
- For dimensions, see from page 677.

■ TECHNICAL DATA

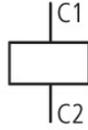
- Time-delay adjustable between 70 ms – 4 s
- With additional external capacitor:
 - 30,000 $\mu\text{F} \geq 35 \text{ V}$ up to 8 s
 - 90,000 $\mu\text{F} \geq 35 \text{ V}$ up to 16 s
- Special release MC1-XUVL is required.
- Cannot be installed simultaneously with early-make auxiliary contact MC1-XHIV... or shunt release MC1-XA....
- Time-delay device for separate assembly (Mounting: DIN rail or screws).
- Use control transformer for other operating voltages.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Time delay device	MC-UVU	9004840520392		MC190154
Special undervoltage release for time-delay device UVU	MC1 XUVL	9004840520408		MC191607

SHUNT RELEASE TYPE MC1-XAL



MC199744



SCHRACK INFO

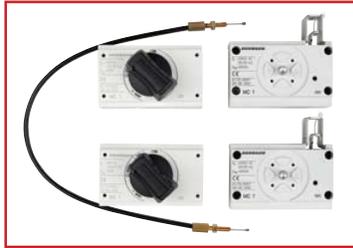
- Without auxiliary contact
- Switches are tripped by a voltage pulse or by applying uninterrupted voltage

TIPS & TRICKS

When the shunt release is de-energised, accidental contact with the main contacts of the switch during attempts to switch on is safely prevented. Shunt release cannot be installed simultaneously with undervoltage releases or early-make auxiliary contact MC1-XHIV.

VOLTAGE	VERSION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
24 VAC/DC	incl. 3 m cable	MC1-XAL24AC/DC	9004840262476		MC199736
208 - 250 VAC/DC	incl. 3 m cable	MC1-XAL208-250 AC/DC	9004840262490		MC199744

MECHANICAL INTERLOCK FOR (DOOR COUPLING-) ROTARY HANDLES FOR MC1



MC191581 + MC191585

SCHRACK INFO

- **Rotary handle on switch or door coupling rotary handle additionally required.**
- Cannot be combined with door sealing frame
- At least 2 interlocking modules are required to construct a mechanical interlock.
- Order Bowden cable separately
- For dimensions, see from page 677.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Mechanical interlock	MC1-XMV	9004840403190		MC191581
Bowden cable 225 mm	MC XBZ225	9004840403206		MC191585
Bowden cable 600 mm	MC XBZ600	9004840403213		MC191586
Bowden cable 1000 mm	MC XBZ600	9004840403220		MC191587



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ROTARY HANDLES DIRECTLY ON SWITCH FOR MC1



MC190125

SCHRACK INFO

- Complete with rotary drive
- Can also be combined with door sealing frame
- For dimensions, see from page 677.

TECHNICAL DATA

Available in the following versions:

Type MC.-XDV

Lockable in position "0" (up to three padlocks), black/grey

Type MC.-XDVR

Lockable in position "0" (up to three padlocks), EMERGENCY STOP red/yellow

Type MC.-XDTV

Lockable in position "0" on handle, modification also available in position "1", black/grey

Type MC.-XDTVR

Lockable in position "0", EMERGENCY STOP red/yellow

Version with door interlock:

- Door sealing frame supplied with door interlock
- Rotary handle can be rotated 90° for switches mounted horizontally
- In the ON position, can be defeated from the outside using a 1 mm pin
- Cannot be defeated in the locked OFF and ON positions
- Door can be opened in OFF
- Can only be switched on when door closed

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Rotary handle for MC1, lockable, black/grey	MC1-XDV	9004840262728		MC190125
Rotary handle for MC1, lockable, emergency stop red/yellow	MC1-XDVR	9004840262773		MC190135
Rotary handle for MC1 with door interlock, lockable, black/grey	MC1 CDTV	9004840262759		MC190131
Rotary handle for MC1 with door interlock, lockable, emergency stop red/yellow	MC1 XDTVR	9004840262803		MC190142



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DOOR COUPLING ROTARY HANDLES UND MAIN SWITCH KITS FOR MC1



MC190166 - Rotary drive



MC190166 - Coupling part



MC190166 - Rotary handle

SCHRACK INFO

- Complete including rotary drive and coupling parts
- Degree of protection IP66
- Rotary handle can be rotated 90° for switches mounted horizontally
- Cannot be defeated in the locked OFF and ON positions
- Can be modified when in the unlocked ON position, can be defeated from the outside with a screwdriver
- Door can be opened in OFF
- External warning plate/additional plate can be clipped on
- For dimensions, see from page 677.

NOTE

- Order extension shaft separately!

TECHNICAL DATA

Available in the following versions:

Type MC.-XTVD

Lockable in position "0" on handle, with up to three padlocks, with door interlock, black/grey

Type MC.-XTVDV

Lockable in position "0" on handle and switch, with up to three padlocks, with door interlock, black/grey

Type MC.-XTVDVR

Lockable in position "0" on handle and switch with up to three padlocks, with door interlock, EMERGENCY STOP red/yellow

Main switch kit consisting of:

- Door coupling rotary handle + rotary drive XTVD/XTVDR
- Extension shaft XV4
- External warning plate
- Lightning arrow

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
DOOR COUPLING ROTARY HANDLES				
For MC1 with door interlock, lockable, black/grey	MC1 XTVD	9004840262872		MC190166
For MC1 with door interlock, lockable, "0", "1", black/grey	MC1-XTVDV	9004840262902		MC190172
For MC1 with door interlock, lockable, emergency stop red/yellow	MC1 XDTVDR	9004840262933		MC190178
MAIN SWITCH KITS				
For MC1 lockable, black/grey	MC1-XHB	9004840263565		MC196626
For MC1 lockable, emergency stop red/yellow	MC1-XHBR	9004840263596		MC196632

EXTENSION SHAFT FOR MC1



MC190191

SCHRACK INFO

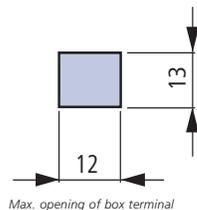
- For maximum cabinet depths of 400 or 600 mm
- Can be cut to required length
- For dimensions, see from page 677.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Extension axis for MC1 max. 400 mm	MC1/2-XV4	9004840263053		MC191232
Extension axis for MC1 max. 600 mm	MC1/2-XV6	9004840262964		MC190191

BOX TERMINALS FOR MC1



MC190015



SCHRACK INFO

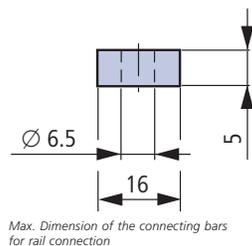
- Standard connection for all MC1, MC1-PN and MC1-N switches
- Conversion kit if switch is equipped with screw terminal
- Contains parts for one switch side
- Installed within the switch housing
- Use cover plate MC1(-4)-XKSA
- Terminal capacities:
Cu wires 1 x (10 to 70 mm²)
Cu wires 2 x (6 to 25 mm²)

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Box terminal up to 160 A (3 pcs. included) for MC1	MC1-160-XKC	9004840386974		MC190015
Box terminal up to 160 A (4 pcs. included) for MC1-4	MC1-160-4-XKC	9004840263848		MC197075

SCREW CONNECTION FOR MC1



MC190019



SCHRACK INFO

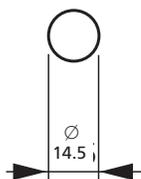
- Contains parts for one switch side located at top or bottom for 3- or 4-pole switches
- Installation outside switch housing
- Cover MC1-XKSA included
- Terminal capacities:
Cu cable lugs 1 x (10 to 70 mm²), 2 x (6 – 25 mm²)
Al cable lugs 1 x (10 to 35 mm²), 2 x (10 – 35 mm²)
- For dimensions, see from page 677.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Screw terminal, 3 pcs. for MC1	MC1-XKS	9004840262629		MC190019
Screw terminal 4 pcs. for MC1-4	MC1-4-XKS	9004840386981		MC196725

TUNNEL TERMINAL FOR MC1



MC196730



SCHRACK INFO

- Contains parts for one switch side, top or bottom
- With control circuit terminal for 1 x (0.75 to 2.5 mm²), 2 x (0.75 to 1.5 mm²) Cu wire
- Installation outside switch housing
- Maximum specified cross-section can only be connected stranded and without end sleeve.
- Attachment of cover MC1(-4)-XKSA required (included)
- Terminal capacities: Cu cable, Al cable 95 mm²
- For dimensions, see from page 677.

TECHNICAL DATA

- For Cu- and Al cables
- Including cover
- Stranded round conductor / stranded sector-shaped conductor
- Use with flexible and highly-flexible conductor end sleeves

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Tunnel terminal 95 mm ² , 3-pole for MC1	MC1-X KA	9004840263749		MC196730
Tunnel terminal 95 mm ² , 4-pole for MC1-4	MC1-4-X KA	9004840386998		MC196731

REAR CONNECTION FOR MC1



MC196734

SCHRACK INFO

- Contains parts for one switch side located at top or bottom for 3- or 4-pole switches
- Terminal capacities:
Cu cable lugs 1 x (10 to 70 mm²), 2 x (6 to 25 mm²)
Al cable lugs 1 x (10 to 35 mm²), 2 x (10 to 35 mm²)
- For dimensions, see from page 677.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Rear connection, 3-pole for MC1	MC1-XKR	9004840263756		MC196734

CONTROL CIRCUIT TERMINAL FOR MC1



MC196739

SCHRACK INFO

- Contains parts for two terminals located at top or bottom for 3/4-pole switches
- Included with tunnel terminal
- Terminal capacities: Screw terminal 1 x (0.75 to 2.5 mm²), 2 x (0.75 to 1.5 mm²)
- For dimensions, see from page 677.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Control circuit connection for box terminal MC1	MC-XSTK	9004840263893		MC196739
Control circuit connection for screw terminal for MC1	MC1-XSTS	9004840262827		MC190150

■ TERMINAL COVER FOR MC1



MC190021

■ SCHRACK INFO

- Protection against accidental contact where cable lugs, rails are connected or tunnel terminals are used
- Contains parts for one switch side located at top or bottom for 3- or 4-pole switches
- Degree of protection IP4X front, side and rear, IP1X on the connection side when using insulated conductor material
- Cover plate already comes with tunnel terminals
- For dimensions, see from page 677.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Terminal cover, 3-pole for MC1	MC1-XKSA	9004840262636		MC190021
Terminal cover, 4-pole for MC1-4	MC1-4-XKSA	9004840387018		MC196741

■ CONNECTION COVER, KNOCKOUT FOR BOX TERMINAL

■ SCHRACK INFO

- Contains parts for one switch side, top or bottom
- For 3- or 4-pole switches
- Connection cover can be knocked out
- To increase touch protection for box terminal (simplified finger protection)

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Terminal cover, 3-pole for MC1	MC1-XKSFA	9004840520514		MC190780

■ IP2X FINGER PROTECTION FOR DIRECT-MOUNTED MC1 SWITCHES



MC196744



MC196748

■ SCHRACK INFO

- Increases the protection against accidental contact to IP2X
- Protection when reaching into the cable connection area when cables are connected
- MC1-XIPK and MC1-4-XIPK for direct mounting on switches
- MC1-XIPA and MC1-4-XIPA only in combination with cover plate XKSA
- Contains parts for one switch side, top or bottom
- For dimensions, see from page 677.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
FOR BOX TERMINAL				
Finger protection, 3-pole for MC1	MC1-XIPK	9004840387025		MC196744
Finger protection, 4-pole for MC1	MC1-4-XIPK	9004840387032		MC196745
FOR TERMINAL COVER				
Finger protection, 3-pole for MC1	MC1-XIPA	9004840387049		MC196748
Finger protection, 4-pole for MC1	MC1-4-XIPA	9004840387056		MC196749



INSULATED ENCLOSURE XCI



MC191522

SCHRACK INFO

- Only for switches with box terminals for direct cable connection
- With door coupling rotary handle
- Complete including all necessary functional parts
- Degree of protection IP65
- MC1-XCI23 housing with flanges
- MC1-XCI43 are fitted with gland plates
- For dimensions, see from page 677.

TECHNICAL DATA

Enclosure suitable for installation of circuit-breakers and load-break switches for separate mounting with top and bottom cable entry.

Including fixing straps for wall mounting. Short circuit protection at 415 V 50/60 Hz up to 10 kA.

Not in combination with remote operator, plug-in or withdrawable unit.

Additional insulated terminal for 4th or 5th pole must be ordered separately.

Available in the following versions:

Standard, black/grey

Lockable in position "0" on handle with up to 3 padlocks. Additionally with cover interlock.

For EMERGENCY STOP, red/yellow

Lockable on handle and switch lockable with up to 3 padlocks in position "0" on handle. Additionally with cover interlock and lockable at switch in position "0".

DESCRIPTION	MAX. RATED UNINTERRUPTED CURRENT	TYPE	EAN CODE	AVAILABLE	ORDER NO.
STANDARD, BLACK/GREY					
For MC1, 3-pole	≤ 63 A	MC1-XCI23-TVD	9004840520545		MC191522
For MC1-4, 3- or 4-pole	≤ 125 A	MC1-XCI43-TVD	9004840520552		MC191523
For MC1-4, 3- or 4-pole	≤ 160 A	MC1-XCI43/2-TVD	9004840520521		MC194645
FOR EMERGENCY STOP, RED/YELLOW					
For MC1, 3-pole	≤ 63 A	MC1-XCI23-R	9004840520569		MC191527
For MC1-4, 3- or 4-pole	≤ 125 A	MC1-XCI43-R	9004840520576		MC191528
For MC1-4, 3- or 4-pole	≤ 160 A	MC1-XCI43/2-R	9004840520538		MC194646



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COMPONENT ADAPTERS FOR CIRCUIT-BREAKERS AND LOAD-BREAK SWITCHES FOR 60 mm BUSBAR SYSTEM, MC1



MC195700 – SIDE VIEW



MC195700 – FRONT VIEW

SCHRACK INFO

- For mounting on flat copper rails 12 x 5 mm to 30 x 10 mm
- Double T and triple T profile
- For snapping onto de-energised busbar
- Rated operating voltage U_e : 690 V
- For dimensions, see from page 677.

TECHNICAL DATA

MC 1 up to 160 A:

- For switches with standard box terminal connection
- Connected to system via terminal strips at top
- In connection with IP2X finger protection, possible to increase protection against accidental contact on outgoing side

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
60 mm busbar adapter 160 A for MC1, 3-pole	32570	9004840417722		MC195700

DOOR SEALING FRAME FOR MC1



MC190195

SCHRACK INFO

- For toggle levers, rotary handles with rotary drive and remote operator
- Degree of protection IP40
- For rectangular cut-out on doors and enclosures with material thicknesses of 1.5 – 5 mm
- External warning plate / additional plate (optional) clipped
- For dimensions, see from page 677.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Door sealing frame for MC1	MC1-XBR	9004840262988		MC190195

TOGGLE LEVER LOCKING DEVICE FOR MC1



MC190199

SCHRACK INFO

- Off position lockable with up to 3 padlocks (shackle thickness 4 – 8 mm)
- Cannot be combined with door sealing frame
- For dimensions, see from page 677.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Toggle lever locking device for MC1	MC1-XKAV	9004840520606		MC190199

SPACER FOR MC1



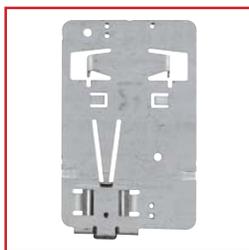
MC190203

SCHRACK INFO

- Enables fast and low-priced adjustment of various frame sizes with/without rotary handle or remote operator at same front depth
- Grid depth 17.5 mm, thread M4
- One set contains 4 x spacers
- Maximum component installation 4 pcs. per fastening screw
- 2 fastening screws included for each circuit breaker MC1
- For dimensions, see from page 677.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Spacer for MC1	MC1/2-XAB	9004840263008		MC190203

CLIP PLATE FOR MC1



MC190213

SCHRACK INFO

- Enables snap fit of circuit breakers / load-break switch to DIN rail (35 mm rail)
- For dimensions, see from page 677.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Clip plate for MC1	MC1-XC35	9004840263022		MC190213



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■ CIRCUIT BREAKER 3-POLE UP TO 300 A WITH THERMAL MAGNETIC RELEASE TYPES MC2B-A, MC2C-A, MC2N-A, MC2H-A



MC216131

■ SCHRACK-INFO

- For system and line protection
- Adjustable overload release I: 0.8 – 1 x I_n (factory setting 0.8 x I_n)
- Adjustable short-circuit release I: 6 – 10 x I_n (factory setting 6 x I_n); except MC.-A40: 8 - 10 x I_n
- Screw terminals as standard, lift terminals as option
- Breaking capacity 25 / 36 / 50 / 150 kA at 415 V 50/60 Hz
- Meets IEC/EN 60947-2
- Rated uninterrupted current = rated current
- For dimensions, see from page 684.

RATED CURRENT/ BREAKING CAPACITY	ADJUSTMENT RANGE		TYPE	EAN CODE	AVAILABLE	ORDER NO.
	OVERLOAD, RELEASE (A)	SHORT-CIRCUIT RELEASE (A)				
3-POLE (BASIC BREAKING CAPACITY) 25 kA						
160 A/25 kA	125...160	960...1600	MC2B-A160	9004840261875		MC216131
200 A/25 kA	160...200	1200...2000	MC2B-A200	9004840261882		MC20131
250 A/25 kA	200...250	1500...2500	MC2B-A250	9004840261899		MC25131
300 A/25 kA	240...300	2000...2500	MC2B-A300	9004840551150		MC30131
3-POLE (COMFORT BREAKING CAPACITY) 36 kA						
160 A/36 kA	125...160	960...1600	MC2C-A160	9004840552225		MC216431
200 A/36 kA	160...200	1200...2000	MC2C-A200	9004840552232		MC20431
250 A/36 kA	200...250	1500...2500	MC2C-A250	9004840552249		MC25431
300 A/36 kA	240...300	2000...2500	MC2C-A300	9004840552256		MC30431
3-POLE (NORMAL BREAKING CAPACITY) 50 kA						
125 A/50 kA	100...125	750...1250	MC2N-A125	9004840261905		MC212231
160 A/50 kA	125...160	960...1600	MC2N-A160	9004840261912		MC216231
200 A/50 kA	160...200	1200...2000	MC2N-A200	9004840261929		MC20231
250 A/50 kA	200...250	1500...2500	MC2N-A250	9004840261936		MC25231
300 A/50 kA	240...300	2000...2500	MC2N-A300	9004840551167		MC230231
3-POLE (HIGH BREAKING CAPACITY) 150 kA						
20 A/150 kA	15...20	fix 350	MC2H-A20	9004840405057		MC202331
25 A/150 kA	20...25	fix 350	MC2H-A25	9004840405064		MC205331
32 A/150 kA	25...32	fix 350	MC2H-A32	9004840405040		MC232331
40 A/150 kA	32...40	320...400	MC2H-A40	9004840261943		MC240331
50 A/150 kA	40...50	300...500	MC2H-A50	9004840261950		MC250331
63 A/150 kA	50...63	380...630	MC2H-A63	9004840261967		MC263331
80 A/150 kA	63...80	480...800	MC2H-A80	9004840261974		MC280331
100 A/150 kA	80...100	600...1000	MC2H-A100	9004840261981		MC210331
125 A/150 kA	100...125	750...1250	MC2H-A125	9004840261998		MC212331
160 A/150 kA	125...160	960...1600	MC2H-A160	9004840262001		MC216331
200 A/150 kA	160...200	1200...2000	MC2H-A200	9004840262018		MC220331
250 A/150 kA	200...250	1500...2500	MC2H-A250	9004840262025		MC225331
300 A/150 kA	240...300	2000...2500	MC2H-A300	9004840551174		MC230331



■ CIRCUIT BREAKER 4-POLE UP TO 300 A WITH THERMAL MAGNETIC RELEASE TYPES MC2B-4-A, MC2N-4-A, MC2H-4-A



MC216141

■ SCHRACK-INFO

- For system and line protection
- Adjustable overload release I_l: 0.8 – 1 x I_n (factory setting 0.8 x I_n)
- Adjustable short-circuit release I_s: 6 – 10 x I_n (factory setting 6 x I_n); except MC.-A40: 8 - 10 x I_n
- Screw terminals as standard, lift terminals as option
- Breaking capacity 25 / 50 / 150 kA at 415 V 50/60 Hz
- Meets IEC/EN 60947-2
- Rated uninterrupted current = rated current
- Switches also available with reduced N-wire release
- For dimensions, see from page 684.

RATED CURRENT/ BREAKING CAPACITY	ADJUSTMENT RANGE		TYPE	EAN CODE	AVAILABLE	ORDER NO.
	OVERLOAD, RELEASE (A)	SHORT-CIRCUIT RELEASE (A)				
4-POLE (BASIC BREAKING CAPACITY) 25 kA						
160 A/25 kA	125...160	960...1600	MC2B-4-A160	9004840385830		MC216141
200 A/25 kA	160...200	1200...2000	MC2B-4-A200	9004840385847		MC220141
250 A/25 kA	200...250	1500...2500	MC2B-4-A250	9004840385854		MC225141
300 A/25 kA	240...300	2000...2500	MC2B-4-A300	9004840551181		MC230141
4-POLE (NORMAL BREAKING CAPACITY) 50 kA						
125 A/50 kA	100...125	750...1250	MC2N-4-A125	9004840386103		MC212241*
160 A/50 kA	125...160	960...1600	MC2N-4-A160	9004840386110		MC216241*
200 A/50 kA	160...200	1200...2000	MC2N-4-A200	9004840386127		MC220241*
250 A/50 kA	200...250	1500...2500	MC2N-4-A250	9004840386134		MC225241*
300 A/50 kA	240...300	2000...2500	MC2N-4-A300	9004840551198		MC230241*
4-POLE (HIGH BREAKING CAPACITY) 150 kA						
20 A/150 kA	15...20	fix 350	MC2H-4-A20	9004840405071		MC202341
25 A/150 kA	20...25	fix 350	MC2H-4-A25	9004840405088		MC205341
32 A/150 kA	25...32	fix 350	MC2H-4-A32	9004840405095		MC232341
40 A/150 kA	32...40	320...400	MC2H-4-A40	9004840385946		MC240341
50 A/150 kA	40...50	300...500	MC2H-4-A50	9004840385953		MC250341
63 A/150 kA	50...63	380...630	MC2H-4-A63	9004840385960		MC263341
80 A/150 kA	63...80	480...800	MC2H-4-A80	9004840385977		MC280341
100 A/150 kA	80...100	600...1000	MC2H-4-A100	9004840385892		MC210341
125 A/150 kA	100...125	750...1250	MC2H-4-A125	9004840385908		MC212341
160 A/150 kA	125...160	960...1600	MC2H-4-A160	9004840385915		MC216341
200 A/150 kA	160...200	1200...2000	MC2H-4-A200	9004840385922		MC220341
250 A/150 kA	200...250	1500...2500	MC2H-4-A250	9004840385939		MC225341
300 A/150 kA	240...300	2000...2500	MC2H-4-A300	9004840551204		MC230341

* Switches also available with reduced N-conductor release (MC2...241R), I_n N-conductor = 0.6 x I_n external conductor

MOTOR CONTACTOR, 3-POLE UP TO 200 A WITH THERMAL MAGNETIC RELEASE TYPES MC2B-M, MC2N-M



MC212236

SCHRACK-INFO

- Adjustable overload release I: 0.8 – 1 x I_n (factory setting 0.8 x I_n); with phase failure sensitivity, tripping class 10 A (2s < T_p ≤ 10s)
- Adjustable short-circuit release I: 8 – 14 x I_n (factory setting 12 x I_n);
- Terminal screws as standard, lift terminals as option
- Breaking capacity 25 / 50 kA at 415 V 50/60 Hz
- Specification acc. to IEC/EN 60947-4 and IEC/EN 60947-2
- Meet all requirements of utilisation category AC3 at 400 VAC
- For dimensions, see from page 684.

NOMINAL CURRENT/ BREAKING CAPACITY/ POWER/CURRENT	ADJUSTMENT RANGE		TYPE	EAN CODE	AVAILABLE	ORDER NO.
	OVERLOAD RELEASE (A)	SHORT-CIRCUIT RELEASE (A)				
3-POLE (BASIC BREAKING CAPACITY) 25 kA						
125 A/25 kA/55 kW/99 A	100...125	1000...1750	MC2B-M125	9004840385861		MC212136
160 A/25 kA/75 kW/134 A	125...160	1280...2240	MC2B-M160	9004840385878		MC216136
200 A/25 kA/110 kW/196 A	160...200	1600...2800	MC2B-M200	9004840385885		MC220136
3-POLE (NORMAL BREAKING CAPACITY) 50 kA						
125 A/50 kA/55 kW/99 A	100...125	1000...1750	MC2N-M125	9004840386172		MC212236
160 A/50 kA/75 kW/134 A	125...160	1280...2240	MC2N-M160	9004840386189		MC216236
200 A/50 kA/110 kW/196 A	160...200	1600...2800	MC2N-M200	9004840386196		MC220236



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■ CIRCUIT BREAKER UP TO 250 A 3-/4 POLE WITH DELAYED ELECTRONIC RELEASE TYPES MC2N-VE, MC2H-VE, MC2N-4-VE, MC2H-4-VE



MC216233

■ SCHRACK-INFO

- System and line protection
- Selective and generator protection
- 3- and 4-pole version
- RMS value measurement and “thermal memory”
- Adjustable overload release I_r : 0.5 – 1 x I_n (factory setting 0.8 x I_n)
- Adjustable time delay setting to overcome current peaks t_r : 2 – 20 s at 6 x I_r as well as infinity (factory setting 10 s)
- Adjustable delayed short-circuit releases I_{sd} : 2 – 10 x I_r (factory setting 6 x I_r)
- Adjustable time delay t_{sd} : Levels: 0, 20, 60, 100, 200, 300, 500, 750, 1000 ms (factory setting 0)
- Non-delayed short-circuit release (I_l : fixed 12 x I_n)
- Screw terminals as standard, lift terminals as option
- Specifications acc. to IEC/EN 60947-2
- Rated uninterrupted current = rated current
- Switches also available with reduced N-wire release
- For dimensions, see from page 684.

RATED CURRENT/ BREAKING CAPACITY	OVERLOAD RELEASE (A)	ADJUSTMENT RANGE		TYPE	EAN CODE	AVAILABLE	ORDER NO.
		SHORT-CIRCUIT RELEASE NON-DELAYED (A)	DELAYED (A)				
3-POLE (NORMAL BREAKING CAPACITY) 50 kA							
100 A/50 kA	50...100	1200	100...1000	MC2N-VE100	9004840262094		MC210233
160 A/50 kA	80...160	1920	160...1600	MC2N-VE160	9004840262100		MC216233
250 A/50 kA	125...250	3000	250...2500	MC2N-VE250	9004840262117		MC225233
3-POLE (HIGH BREAKING CAPACITY) 150 kA							
100 A/150 kA	50...100	1200	100...1000	MC2H-VE100	9004840262124		MC210333
160 A/150 kA	80...160	1920	160...1600	MC2H-VE160	9004840262131		MC216333
250 A/150 kA	125...250	3000	250...2500	MC2H-VE250	9004840262148		MC225333
4-POLE (NORMAL BREAKING CAPACITY) 50 kA							
100 A/50 kA	50...100	1200	100...1000	MC2N-4-VE100	9004840386141		MC210243*
160 A/50 kA	80...160	1920	160...1600	MC2N-4-VE160	9004840386158		MC216243*
250 A/50 kA	125...250	3000	250...2500	MC2N-4-VE250	9004840386165		MC225243*
4-POLE (HIGH BREAKING CAPACITY) 150 kA							
100 A/150 kA	50...100	1200	100...1000	MC2H-4-VE100	9004840385984		MC210343
160 A/150 kA	80...160	1920	160...1600	MC2H-4-VE160	9004840385991		MC216343
250 A/150 kA	125...250	3000	250...2500	MC2H-4-VE250	9004840386004		MC225343

* Switch also available with reduced N-conductor release (MC2..243R), I_N N-conductor = 0.6 x I_N external conductor

■ MOTOR PROTECTION, 3 POLE UP TO 220 A WITH ELECTRONIC RELEASE TYPES MC2N-ME, MC2H-ME



MC290237

■ SCHRACK-INFO

- Adjustable overload release I_l : $0.5 - 1 \times I_n$ (factory setting $0.8 \times I_n$)
- Adjustable short-circuit release I_s : $2 - 14 \times I_n$ (factory setting $12 \times I_n$)
- Adjustable time delay setting to overcome current peaks t : $2 - 20$ s at $6 \times I_l$, as well as infinity (without overload release), (factory setting 10 s)
- RMS value measurement and "thermal memory"
- Phase failure sensitivity
- Screw terminals as standard, lift terminals as option
- Specification acc. to IEC/EN 60947-4 and IEC/EN 60947-2
- Meet all requirements of utilisation category AC3 at 400 VAC
- For dimensions, see from page 684.

NOMINAL CURRENT/ BREAKING CAPACITY/ POWER/CURRENT	ADJUSTMENT RANGE		TYPE	EAN CODE	AVAILABLE	ORDER NO.
	OVERLOAD RELEASE (A)	SHORT-CIRCUIT RELEASE (A)				
3-POLE (NORMAL BREAKING CAPACITY) 50 kA						
90 A/50 kA/45 kW/81 A	45...90	90...1260	MC2N-ME90	9004840386226		MC290237
140 A/50 kA/75 kW/134 A	70...140	140...1960	MC2N-ME140	9004840386202		MC214237
220 A/50 kA/110 kW/196 A	110...220	220...3080	MC2N-ME220	9004840386219		MC22237
3-POLE (HIGH BREAKING CAPACITY) 100 kA						
90 A/100 kA/45 kW/81 A	45...90	90...1260	MC2H-ME90	9004840386035		MC290337
140 A/100 kA/75 kW/134 A	70...140	140...1960	MC2H-ME140	9004840386011		MC214337
220 A/100 kA/110 kW/196 A	110...220	220...3080	MC2H-ME220	9004840386028		MC222337



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LOAD-BREAK SWITCH UP TO 250 A TYPES MC2-PN, MC2-PN-4, MC2-N, MC2-N-4



MC216034

SCHRACK-INFO

- 3- and 4-pole versions
- Rated uninterrupted current up to 250 A
- MC2-PN two switch positions 0/I, no remote release
- MC2-N, with trip positions "0", "+"; "I", with remote release, can be equipped with undervoltage/shunt release and trip-indicating auxiliary contact
- Screw terminals as standard, lift terminals as option
- Can be combined with remote operator MC-XR
- Properties of main switches including positive drive according to IEC/EN 60204 and VDE 0113
- Isolating characteristics according to IEC/EN 60947-3 and VDE 0660, protection against accidental contact according to VDE 0160 Part 100
- Specifications acc. to IEC/EN 60947-2
- Rated uninterrupted current = rated current
- Rated short-circuit breaking capacity: I_{cm} 5.5 kA
- Rated short-time current protection: I_{cw} 3.5 kA
- For dimensions, see from page 684.

RATED UNINTERRUPTED CURRENT	MAX. BACK-UP FUSE (gL) FOR LOAD-BREAK SWITCHES (AgL)	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
3-POLE, NO REMOTE RELEASE POSSIBLE					
160 A	250	MC2-PN-160	9004840386271		MC216034
200 A	250	MC2-PN-200	9004840386288		MC220034
250 A	250	MC2-PN-250	9004840386295		MC225034
4-POLE, NO REMOTE RELEASE POSSIBLE					
160 A	250	MC2-PN-4-160	9004840386301		MC216044
200 A	250	MC2-PN-4-200	9004840386318		MC220044
250 A	250	MC2-PN-4-250	9004840386325		MC225044
3-POLE, REMOTE RELEASE POSSIBLE					
160 A	250	MC2-N-160	9004840386042		MC216035
200 A	250	MC2-N-200	9004840386059		MC220035
250 A	250	MC2-N-250	9004840386066		MC225035
4-POLE, REMOTE RELEASE POSSIBLE					
160 A	250	MC2-N-4-160	9004840386073		MC216045
200 A	250	MC2-N-4-200	9004840386080		MC220045
250 A	250	MC2-N-4-250	9004840386097		MC225045



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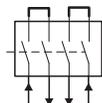
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LOAD-BREAK SWITCHES UP TO 200 A/1000 V TYPES MC2-N-4-...-S1-DC



MC216045DC



SCHRACK-INFO

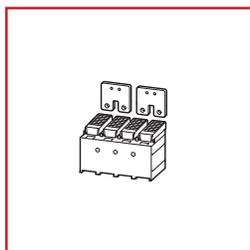
- 4-pole version / 2-pole switching
- Rated uninterrupted current up to 200 A
- With trip positions "0", "+", "I", with remote release, can be equipped with undervoltage or shunt release and trip-indicating auxiliary contact
- Terminal screws as standard, jumper kits* optional
- Can be combined with remote operator MC-XR
- Properties of main switches including positive drive according to IEC/EN 60204 and VDE 0113
- Isolating characteristics according to IEC/EN 60947 and VDE 0660, protection against accidental contact according to VDE 0160 Part 100
- Specifications acc. to IEC/EN 60947-3
- Rated uninterrupted current = rated current
- Rated short-time current protection: I_{cw} 3 kA
- Not available with plug-in technology
- For dimensions, see from page 684.

NOTE

- MC-S1-DC ... cannot be combined with withdrawable unit and/or rear connection
- If $U_i > 1000$ V DC, cannot be combined with early-make auxiliary contacts MC ... XHIV and box terminal MC.-4-XKC
- Connection technology MC...-S1-DC: 2-pole switching requires series connection of 2 poles each
See accessories of jumper kits MC.-4-XKV..

RATED UNINTERRUPTED CURRENT AT DC 22-B/65 °C*	MAX. BACK-UP FUSE (gR)	TYPE	EAN CODE	AVAILABLE	ORDER NO.
4-POLE, REMOTE RELEASE POSSIBLE					
160 A	200	MC2-N-4-160-S1-DC	9004840626834		MC216045DC
200 A	200	MC2-N-4-200-S1-DC	9004840626841		MC220045DC

JUMPER KIT FOR TYPE MC2.....-...-S1-DC / 1000V DC



MC290602

SCHRACK-INFO

- Type contains parts for upper switch side for 4-pole switches
- MC2-N...-S1-DC that are used with 2 poles for DC
- Each jumper switches 2 current paths in series
- Supply and outlet at bottom or top selectable
- For dimensions, see from page 684.

RATED UNINTERRUPTED CURRENT A/°C	DEGREE OF PROTECTION	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
200 A/65 °C, 160 A/70 °C	IP2x	MC2-4-XKV2P	9004840626919		MC290602



RESIDUAL-CURRENT RELEASE UP TO 250 A TYPES MC2-4-XFI, MC2-4-XFIA



MC296720

SCHRACK-INFO

- Direct mounting on 4-pole circuit breaker MC-2 and load-break switch MC2-N
- Type MC2-4-XFI pulse current sensitive accord. to core-balance principle
- Specifications acc. to IEC/EN 60947-2
- Bottom mounting up to 250 A
- Not suitable for MC2-N-...DC
- For dimensions, see from page 684.

TECHNICAL DATA

- Independent of mains and auxiliary voltage, $U_e = 280 \text{ V} - 690 \text{ V } 50/60 \text{ Hz}$
- Auxiliary contact: 1 NO, 1 NC reset via Reset function
- Type XFI(A)30: Rated residual current $I_{\Delta n} = 0.03 \text{ A}$, suitable for personal protection according to IEC/EN 60947-2 Annex B and VDE 664 Parts 2 and 3
- Type XFIA: Rated residual current $I_{\Delta n} = 0.1-0.3-1 \text{ A} / \text{XFI} = 0.1-0.3-1-3 \text{ A}$, time delay $t_v = 60-150-300-450 \text{ ms}$, AC/DC current-sensitive accord. to core-balance principle (0–100 kHz)
- Internal supply voltage $U_e = 50-400 \text{ V}$
- Observe response threshold depending on frequency!

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
4-POLE BOTTOM MOUNTING PULSE-CURRENT SENSITIVE 				
FI personal protection 30 mA I_n for MC2-4	MC2-4-XFI30	9004840523041		MC296719V2
FI 0.1-3 A I_n for MC2-4	MC2-4-XFI	9004840523058		MC296720V2
4-POLE BOTTOM MOUNTING AC/DC SENSITIVE 				
FI personal protection 30 mA I_n for MC2-4	MC2-4-XFIA30	9004840523072		MC292345V2
FI 0.1-1 A I_n for MC2-4	MC2-4-XFIA	9004840523089		MC292346V2



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SOCKET UND PLUG-IN MODULE FOR MC2



MC296699

SCHRACK-INFO

- 3- and 4-pole versions
- For circuit breaker MC2 and load-break switch MC2-N
- **Plug-in module only available in combination with switch**
- Socket can be ordered separately and pre-assembled
- Order control circuit plug unit separately
- Not suitable for MC2-N-...DC
- Cannot be used in combination with MC2-4-XFI (residual current release relay)
- For dimensions, see from page 684.

TECHNICAL DATA

- I_n max. at 40 °C:
230 A MC2
250 A MC2-E (electronic release)

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
SOCKET				
Socket, 3-pole	MC2-XSVS	9004840263640		MC296699
Socket, 4-pole	MC2-4-XSVS	9004840387421		MC296700

PLUG-IN MODULE

Plug-in module, 3-pole (supplied with switch, add an S to end of switch part number)

Plug-in module, 4-pole (supplied with switch, add an S to end of switch part number)

ACCESSORIES FOR PLUG-IN STYLE ASSEMBLY MC2/MC2-N

Control circuit plug unit for auxiliary contact, undervoltage/shunt release	MC1/2-XSVHI	9004840263664		MC296705
Control circuit plug unit for remote operator	MC2-XSVR	9004840263671		MC296706



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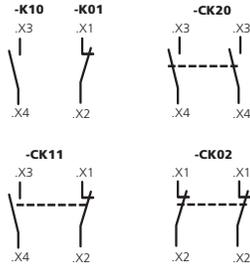
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STANDARD AUXILIARY CONTACT / TRIP-INDICATING AUXILIARY CONTACT TYPE M22



MM216378



SCHRACK INFO

- Switches with the main contacts, used for indicating and interlocking tasks
- General trip indication “+” with trip due to voltage release, overload release or short-circuit-release

TECHNICAL DATA

Breaking capacity: AC15: 4 A / 230 VAC
 DC13: 3 A / 24 VDC
 M22-K: 0.3 A / 220 VDC
 M22-CK: 0.2 A / 220 VDC

TIPS & TRICKS

The trip-indicating auxiliary contact is the same contact as the standard auxiliary contact. It derives its function from its place of installation (left is the alarm contact).

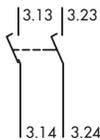
Maximum component installation MC2 with auxiliary contact: 2 x standard auxiliary contact (HIN) M22-K.. or M22CK..
 + 1 x trip-indicating auxiliary contact (HIA) M22-K.. or M22-CK..

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
1 NO contact with screw terminals	M22-K10	9004840176254		MM216376
1 NC contact with screw terminals	M22-K01	9004840176261		MM216378
2 NO contacts with spring terminals	M22-CK20	9004840547047		MM107898
2 NC contacts with spring terminals	M22-CK02	9004840547054		MM107899
1 NO contact + 1 NC contact with spring terminals	M22-CK11	9004840625783		MM107940

EARLY-MAKE AUXILIARY CONTACT TYPE MC2-XHIV



MC299430



SCHRACK INFO

- For interlock- and load-shedding circuits as well as for early make of undervoltage release in main switch/Emergency-stop applications.

TECHNICAL DATA

- Early-make during switch on and off (manual switch): approx. 20 ms
- Not in connection with undervoltage release MC2-XU... or shunt release MC2-XA...
- Breaking capacity: AC15: 4 A / 230 VAC
 DC13: 3 A / 24 VDC

TIPS & TRICKS

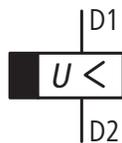
Maximum component installation MC2:
 1 x early-make auxiliary contact

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Early-make auxiliary switch, 2 NO	MC2/3-XHIV	9004840262285		MC299430

UNDervOLTAGE RELEASE TYPES MC2-XU



MC299499



SCHRACK INFO

- Non-delayed switching of circuit breaker MC/ load-break switch MC-N when the control voltage drops below 35% – 70% U_s .
- For use in emergency stop devices in connection with EMERGENCY STOP button
- Installed in breaker
- Without auxiliary contact
- Other voltage variants available upon request.

TIPS & TRICKS

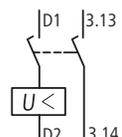
When the undervoltage release is de-energised, accidental contact with the main contacts of the switch is safely prevented during attempts to switch on. Undervoltage release cannot be installed simultaneously with a shunt release or early-make auxiliary contact MC2-XHIV.

VOLTAGE	VERSION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
24 VAC	Screw terminals	MC2/3-XU24AC	9004840262360		MC299491
24 VDC	Screw terminals	MC2/3-XU24DC	9004840262407		MC299509
208 - 240 VAC	Screw terminals	MC2/3-XU208-240 AC	9004840262384		MC299499
380 - 440 VAC	Screw terminals	MC2/3-XU380-440 AC	9004840262391		MC299501

UNDervOLTAGE RELEASE WITH TWO EARLY-MAKE AUXILIARY CONTACTS TYPES MC2-XUHIV



MC299591



SCHRACK INFO

- With 2 early-make auxiliary contacts
- For early-make of the undervoltage release in main switch applications and for interlock- and load-shedding circuits
- Installed in breaker
- Other voltage variants available upon request.

TIPS & TRICKS

When the undervoltage release is de-energised, accidental contact with the main contacts of the switch is safely prevented during attempts to switch on. Early-make of auxiliary contacts during switch on and off (20 ms). Undervoltage release cannot be installed simultaneously with a shunt release or early-make auxiliary contact MC2-XHIV.

VOLTAGE	VERSION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
208 - 240 VAC	Screw terminals	MC2/3-XUHIV208-240 AC	9004840262452		MC299591
380 - 440 VAC	Screw terminals	MC2/3-XUHIV380-440 AC	9004840262469		MC299594



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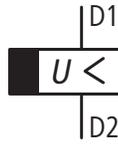
UNDervOLTAGE RELEASE, OFF-DELAY TYPES MC-UVU, MC-XUV



MC190154



MC299527



SCHRACK INFO

- Voltage drops of less than 16 s do not cause MC circuit breakers or MC-N load-break switches to trip..
- Voltage range:
 - 220-240 VAC 50/60 HZ
 - 380-440 VAC 50/60 HZ
 - 480-550 VAC 50/60 HZ
 - 24 VDC / AC
- For dimensions, see from page 684.

TECHNICAL DATA

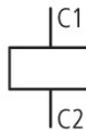
- Time-delay adjustable between 70 ms – 4 s
- With additional external capacitor:
 - 30,000 µF ≥ 35 V up to 8 s
 - 90,000 µF ≥ 35 V up to 16 s
- Special release MC2/3-XUV is required.
- Cannot be installed simultaneously with early-make auxiliary contact MC2-XHIV... or shunt release MC2-XA....
- Time-delay device for separate assembly (Mounting: DIN rail or screws).
- Use control transformer for other operating voltages.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Time delay device	MC-UVU	9004840520392		MC190154
Special undervoltage release for time-delay device UVU	MC2/3-XUV	9004840520613		MC299527

SHUNT RELEASE TYPES MC2-XA



MC299754



SCHRACK INFO

- Without auxiliary contact
- Switches are tripped by a voltage pulse or by applying uninterrupted voltage
- Other voltage variants available upon request.

TECHNICAL DATA

When the shunt release is de-energised, accidental contact with the main contacts of the switch during attempts to switch on is safely prevented. Shunt release cannot be installed simultaneously with undervoltage release or early-make auxiliary contact MC1-XHIV.

VOLTAGE	TYPE	EAN CODE	AVAILABLE	ORDER NO.
24 VAC/DC	MC2/3-XA24AC/DC	9004840262506		MC299754
110 - 130 VAC/DC	MC2/3-XA110-130 AC/DC	9004840262513		MC299760
208 - 250 VAC/DC	MC2/3-XA208-250 AC/DC	9004840262520		MC299763

REMOTE OPERATOR FOR MC2



MC299832

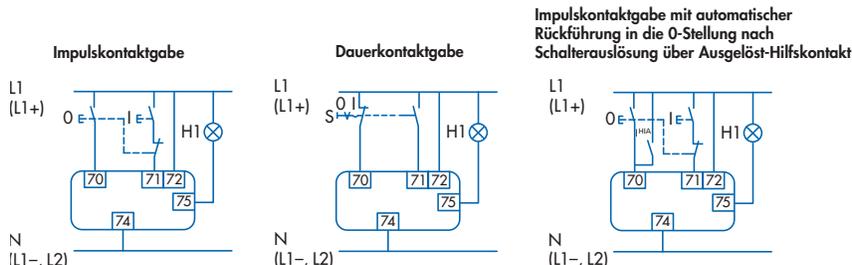
SCHRACK INFO

- Remote operator can be combined with circuit breaker MC and load-break switch MC-N, but not with load-break switch MC-PN.
- Do not switch off switch simultaneously via remote control and release via undervoltage/shunt release.
- 1 auxiliary contact MM-K(CK).. must be installed in circuit breaker (included with remote operator)
- For dimensions, see from page 684.

TECHNICAL DATA

- On/Off switching and reset by means of permanent or pulse contact
- Types – XR: can be synchronised and locked
- Types – XRD: cannot be synchronised, cannot be locked
- Switching time, ON: ≤ 60 ms
- Local switching by hand possible
- Pause between Off and On: 3 s. On command is ignored
- Function of terminal 75: Ready for ON signal, when the cover is closed and not locked.
AC-15: 2 A / 400 V
DC-13: 0.2 A / 220 V

CIRCUIT DIAGRAMS

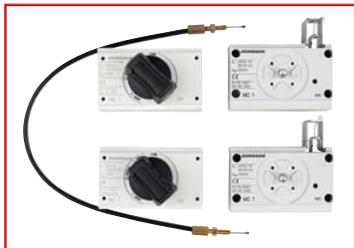


SWITCHING CYCLE – XR



VOLTAGE	TYPE	EAN CODE	AVAILABLE	ORDER NO.
208 - 240 V AC can be synchronised	MC2-XR208-240 AC	9004840262605		MC299832
208 - 240 V AC cannot be synchronised	MC2-XRD208-240 AC	9004840552218		MC299833
Additional cover for 4-pole switches	MC2-XAVPR	9004840386899		MC296677

MECHANICAL INTERLOCK FOR (DOOR COUPLING) ROTARY HANDLES FOR MC2



MC291582 + MC191585

SCHRACK INFO

- **Rotary handle on switch or door coupling rotary handle additionally required.**
- Cannot be combined with door sealing frame
- At least 2 interlocking modules are required to construct a mechanical interlock.
- Order Bowden cable separately
- For dimensions, see from page 684.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Mechanical interlock	MC2-XMV	9004840403237		MC291582
Bowden cable 225 mm	MC XBZ225	9004840403206		MC191585
Bowden cable 600 mm	MC XBZ600	9004840403213		MC191586
Bowden cable 1000 mm	MC XBZ600	9004840403220		MC191587

MECHANICAL INTERLOCK FOR REMOTE OPERATOR MC2-XR



MC294543



MC294543 - MOUNTED

SCHRACK INFO

- For 2 switches of the same or next frame size side by side
- Side-by-side mounting
- Mounted on top of each other, long version
- Contains parts for 2 switches
- Remote operators also required
- Not suitable for remote operators – XRD
- For dimensions and maximum switch clearances, see from page 684.

NOTE

Cannot be combined with rotary handles, door coupling rotary handles and early-make auxiliary contacts.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Mechanical interlock for MC2	MC2-XMVR	9004840520286		MC294543
Mechanical interlock for MC2 long version	MC2-XMVRL	9004840520996		MC294548
Mechanical interlock for MC2/3	MC2/3-XMVR	9004840520736		MC294544
Mechanical interlock for MC2/3 long version	MC2/3-XMVRL	9004840520804		MC294549

ROTARY HANDLES DIRECTLY ON SWITCH FOR MC2



MC290127

SCHRACK INFO

- Complete with rotary drive
- Can also be combined with door sealing frame
- For dimensions, see from page 684.

TECHNICAL DATA

Available in the following versions:

Type MC.-XDV

Lockable in position "0" (up to three padlocks), black/grey

Type MC.-XDVR

Lockable in position "0" (up to three padlocks), EMERGENCY STOP red/yellow

Type MC.-XDTV

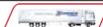
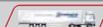
lockable in position "0" on handle, modification also available in position "1", black/grey

Type MC.-XDTVR

Lockable in position "0", EMERGENCY STOP red/yellow

Version with door interlock type XDTV, XDTVR:

- Door sealing frame supplied with door interlock
- Rotary handle can be rotated 90° for switches mounted horizontally
- In the ON position, can be defeated from the outside using a 1 mm pin
- Cannot be defeated in the locked OFF and ON positions
- Door can be opened in OFF
- Can only be switched on when door closed

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Rotary handle for MC2 lockable, black/grey	MC2-XDV	9004840262735		MC290127
Rotary handle for MC2 lockable, Emergency Stop, red/yellow	MC2-XDVR	9004840262780		MC290137
Rotary handle for MC2 with door interlock, lockable, black/grey	MC2-XDTV	9004840262766		MC290133
Rotary handle for MC2 with door interlock, lockable, Emergency Stop, red/yellow	MC2-XDTVR	9004840262810		MC290144

DOOR COUPLING ROTARY HANDLES UND MAIN SWITCH KITS FOR MC2



MC290168 - Rotary drive



MC290168 - Coupling part



MC290168 - Rotary handle

SCHRACK INFO

- Complete including rotary drive and coupling parts
- Degree of protection IP66
- Rotary handle can be rotated 90° for switches mounted horizontally
- Cannot be defeated in the locked OFF and ON positions
- Can be modified when in the unlocked ON position, can be defeated from the outside with a screwdriver
- Door can be opened in OFF
- External warning plate/additional plate can be clipped on
- For dimensions, see from page 684.

NOTE

- Order extension shaft separately!

TECHNICAL DATA

Available in the following versions:

Type MC.-XTVD

Lockable in position "0" on handle, with up to three padlocks, with door interlock, black/grey

Type MC.-XTVDV

Lockable in position "0" on handle and switch, with up to three padlocks, with door interlock, black/grey

Type MC.-XTVDVR

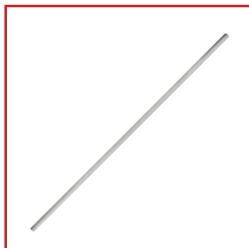
Lockable in position "0" on handle and switch with up to three padlocks, with door interlock, EMERGENCY STOP red/yellow

Main switch kit consisting of:

- Door coupling rotary handle + rotary drive XTVD/XTVDR
- Extension shaft XV4
- External warning plate
- Lightning arrow

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
DOOR COUPLING ROTARY HANDLES				
For MC2 with door interlock, lockable, black/grey	MC2-XTVD	9004840262889		MC290168
For MC2 with door interlock, lockable, "0", "1", black/grey	MC2-XTVDV	9004840262919		MC290174
For MC2 with door interlock, lockable, Emergency Stop, red/yellow	MC2-XTVDVR	9004840262940		MC290180
MAIN SWITCH KITS				
For MC2 lockable, black/grey	MC2-XHB	9004840263572		MC296627
For MC2 lockable, Emergency Stop, red/yellow	MC2-XHBR	9004840263602		MC296633

EXTENSION SHAFT FOR MC2



MC191232

SCHRACK INFO

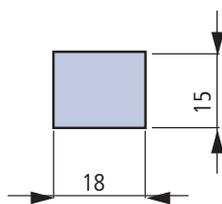
- For maximum cabinet depths of 400 or 600 mm
- Can be cut to required length
- For dimensions, see from page 684.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Extension shaft for MC2 max. 400 mm	MC1/2-XV4	9004840263053	9004840263053	MC191232
Extension shaft for MC2 max. 600 mm	MC1/2-XV6	9004840262964	9004840262964	MC190191

BOX TERMINALS FOR MC2



MC292240



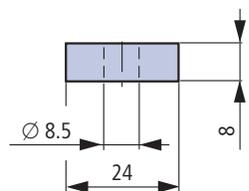
Max. opening of box terminal

SCHRACK INFO

- Conversion kit for switches with screw connection
- Contains parts for one switch side
- Installed within the switch housing
- Use cover plate MC2-XKSA
- Terminal capacities:
 - Cu wires 1 x (4 to 185 mm²)
 - Cu wires 2 x (4 to 70 mm²)
- For dimensions, see from page 684.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Box terminal up to 160 A (3 pcs. included) for MC2	MC2-160-XKC	9004840263077		MC292240
Box terminal up to 250 A (3 pcs. included) for MC2	MC2-250-XKC	9004840263084		MC292244
Box terminal up to 160 A (4 pcs. included) for MC2-4	MC2-4-160-XKC	9004840387063		MC296755
Box terminal up to 250 A (4 pcs. included) for MC2-4	MC2-4-250-XKC	9004840387070		MC296756

SCREW CONNECTION FOR MC2



Max. Dimension of the connecting bars for rail connection

SCHRACK INFO

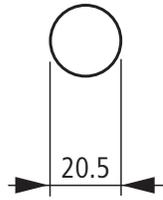
- Standard connection for all MC2, MC2-PN and MC2-N switches
- Conversion kit if switch was equipped with box terminal
- Installed within the switch housing
- Contains parts for one switch side located at top or bottom for 3- or 4-pole switches
- Terminal capacities:
 - Cu cable lugs 1 x (4 to 185 mm²), 2 x (4 to 70 mm²)
 - Al cable lugs 1 x (10 to 50 mm²), 2 x (10 to 50 mm²)
- Use special cable lugs MC2 XKS...

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Screw terminal, 3-pole for MC2	MC2-XKS	9004840387087		MC290030
Screw terminal, 4-pole for MC2-4	MC2-4-XKS	9004840387094		MC296750

TUNNEL TERMINAL FOR MC2



MC196730



SCHRACK INFO

- Contains parts for one switch side, top or bottom
- Standard with control circuit terminal for 1 x (0.75 to 2.5 mm²)
2 x (0.75 to 1.5 mm²)
- Terminal capacities: Cu wires, Al wires 1 x (16 to 185 mm²*)
- Installation outside switch housing
- For dimensions, see from page 684.

TECHNICAL DATA

- For copper and aluminium cables, depending cable manufacturer, up to 240 mm²*
- Including cover
- Stranded round conductor / stranded sector-shaped conductor

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Tunnel terminal 185 mm ² , 3 pcs. included, for MC2	MC2-X kA	9004840373462		MC291457
Tunnel terminal 185 mm ² , 4-pole, 4 pcs. included, for MC2-4	MC2-4-X kA	9004840387209		MC291458

REAR CONNECTION FOR MC2



MC296765

SCHRACK INFO

- Contains parts for one switch side, top or bottom
- Terminal capacities:
 - Cu cable lugs 1 x (4 to 185 mm²), 2 x (4 to 70 mm²)
 - Al cable lugs 1 x (10 to 50 mm²), 2 x (10 to 50 mm²)
- For dimensions, see from page 684.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Rear connection, 3-pole MC2	MC2-XKR	9004840263770		MC296765
Rear connection, 4-pole MC2-4	MC2-4-XKR	9004840387100		MC296768

CONTROL CIRCUIT TERMINAL FOR MC2



MC196739

SCHRACK INFO

- Contains parts for two terminals located at top or bottom for 3/4-pole switches
- Included with tunnel terminal
- Degree of protection IP1X
- Terminal capacities:
 - Screw terminal 1 x (0.75 to 2.5 mm²), 2 x (0.75 to 1.5 mm²)
- For dimensions, see from page 684.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Control circuit connection for box terminal MC2	MC2-XSTK	9004840263893		MC196739
Control circuit connection for screw terminal MC2	MC2-XSTS	9004840262834		MC290156

TERMINAL COVER FOR MC2



MC290038

SCHRACK INFO

- Protection against accidental contact when cable lugs/rails are connected or tunnel terminals are used
- Contains parts for one switch side located at top or bottom for 3- or 4-pole switches
- Degree of protection IP4X front, side and rear, IP1X on the connection side when using insulated conductor material
- Cover plate already comes with tunnel terminals
- For dimensions, see from page 684.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Terminal cover, 3-pole for MC2	MC-XKSA	9004840262643		MC290038
Terminal cover, 4-pole for MC2-4	MC2-4-XKSA	9004840387117		MC296770

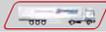
CABLE LUG FOR MC2



MC299776

SCHRACK INFO

- Special cable lug in slimline design
- The cable lugs must be insulated when using without a cover plate.
- For dimensions, see from page 684.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Cable lug 95 mm ²	MC2-XKS95	9004840263855		MC299775
Cable lug 120 mm ²	MC2-XKS120	9004840263862		MC299776
Cable lug 150 mm ²	MC2-XKS150	9004840263879		MC299777
Cable lug 185 mm ²	MC2-XKS185	9004840263787		MC290032

CONNECTION COVER, KNOCKOUT FOR BOX TERMINAL

SCHRACK INFO

- Contains parts for one switch side, top or bottom
- For 3- or 4-pole switches
- Connection cover can be knocked out
- To increase touch protection for box terminal (simplified finger protection)

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Connection cover, knockout, 3-pole for MC2	MC2-XKSFA	9004840520675		MC294640
Connection cover, knockout, 4-pole for MC2	MC2-4-XKSFA	9004840520668		MC294641

IP2X FINGER PROTECTION DIRECT-MOUNTED ON MC2 SWITCHES



MC296743



MC296777

SCHRACK INFO

- Increases the protection against accidental contact to IP2X
- Protection when reaching into the cable connection area when cables are connected in box terminal
- For 2 conductors, minimum cross-section is 25 mm²
- MC2-XIPK and MC2-4-XIPK for direct mounting on switches
- MC2-XIPA and MC2-4-XIPA only in connection with cover plate MC2(-4)-XKSA
- For dimensions, see from page 684.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
FOR SWITCHES WITH BOX TERMINAL				
Finger protection, 3-pole for MC2	MC2-XIPK	9004840387124		MC296773
Finger protection, 4-pole for MC2-4	MC2-4-XIPK	9004840387155		MC296774
FOR SWITCHES WITH TERMINAL COVER				
Finger protection, 3-pole for MC2	MC2-XIPA	9004840387162		MC296777
Finger protection, 4-pole for MC2-4	MC2-4-XIPA	9004840387179		MC296778

INSULATED ENCLOSURE XCI



MC291524

SCHRACK INFO

- Only for switches with box terminals for direct cable connection
- With door coupling rotary handle
- Complete including all necessary functional parts
- Degree of protection IP65
- Comes with gland plates
- For dimensions, see from page 684.

TECHNICAL DATA

Enclosure suitable for installation of circuit-breakers and load-break switches for separate mounting with top and bottom cable entry. Including fixing straps for wall mounting.

Short circuit protection at 415 V 50/60 Hz up to 10 kA.

Not in combination with remote operator, plug-in or withdrawable unit.

Additional insulated terminal for 4th or 5th pole must be ordered separately.

Available in the following versions:

Standard, black/grey

Lockable in position "0" on handle with up to 3 padlocks. Additionally with cover interlock.

For EMERGENCY STOP, red/yellow

Lockable on handle and switch with up to 3 padlocks in position "0" on handle. Additionally with cover interlock and lockable at switch in position "0".

DESCRIPTION	MAX. RATED UNINTERRUPTED CURRENT	TYPE	EAN CODE	AVAILABLE	ORDER NO.
STANDARD, BLACK/GREY					
For MC2 and MC2-4	≤ 200 A	MC2-XCI43-TVD	9004840520682		MC291524
For MC2 and MC2-4	≤ 250 A	MC2-XCI45-TVD	9004840520729		MC290418
FOR EMERGENCY STOP, RED/YELLOW					
For MC2 and MC2-4	≤ 250 A	MC2-XCI45-TVDR	9004840520712		MC299356



Order no. blue: on stock, usually ready for delivery on the day of order!



COMPONENT ADAPTERS FOR CIRCUIT-BREAKERS AND LOAD-BREAK SWITCHES FOR 60 mm BUSBAR SYSTEM MC2



MC291400



MC291666

SCHRACK INFO

- For mounting on flat copper rails 12 x 5 mm to 30 x 10 mm
- Double T and triple T profile
- Mounted via terminal -, screw fixing
- Rated operational voltage Ue: 690 V
- Cover also required (MC2-XKR4)
- For dimensions, see from page 684.

TECHNICAL DATA

MC 2 up to 250 A:

- Top or bottom connection to system as required
- Cover plate MC2-XKR4 required

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
60 mm busbar adapter 250 A, 3-pole	32140	9004840413700		MC291400
Cover for component adapter, 3-pole	MC2-XKR4	9004840523065		MC291666V2

DOOR SEALING FRAME FOR MC2



MC290197

SCHRACK INFO

- For toggle levers, rotary handles with rotary drive and remote operator
- Degree of protection IP40
- For rectangular cut-out on doors and enclosures with material thicknesses of 1.5 – 5 mm
- External warning plate / additional plate (optional) clipped
- For dimensions, see from page 684.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Door sealing frame for MC2	MC2-XBR	9004840262995		MC290197



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TOGGLE LEVER LOCKING DEVICE FOR MC2



MC290201

SCHRACK INFO

- Off position lockable with up to 3 padlocks (shackle thickness 4 – 8 mm)
- Cannot be combined with door sealing frame
- For dimensions, see from page 684.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Toggle lever locking device for MC2	MC2/3-XXAV	9004840521009		MC290201

SPACERS FOR MC2



MC190203

SCHRACK INFO

- Enables fast and low-priced adjustment of various frame sizes with/without rotary handle or remote operator at same front depth
- Grid depth 17.5 mm, thread M4
- One set contains 4 x spacers
- Maximum component installation 4 pcs. per fastening screw
- 2 fastening screws included for each circuit breaker MC2
- For dimensions, see from page 684.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Spacers for MC2	MC1/2-XAB	9004840263008		MC190203

CLIP PLATE FOR MC2



MC290215

SCHRACK INFO

- Enables snap fit of circuit breakers / load-break switch to DIN rail (75 mm rail)
- Not suitable for switches with remote operator
- For dimensions, see from page 684.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Clip plate for MC2	MC2-XC75	9004840263039		MC290215



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CIRCUIT BREAKER 3/4-POLE UP TO 500 A WITH THERMAL MAGNETIC RELEASE TYPES MC3C-A, MC3N-A, MC3H-A, MC3N-4-A, MC3H-4-A



MC332231

SCHRACK-INFO

- System and line protection
- 3- and 4-pole versions
- Adjustable overload release I: 0.8 – 1 x I_n (factory setting 0.8 x I_n)
- Adjustable short-circuit release I: 8 – 10 x I_n (factory setting 8 x I_n)
- Breaking capacity 36 / 50 / 150 kA at 415 V 50/60 Hz
- Screw terminals as standard, lift terminals as option
- Rated uninterrupted current = rated current
- For dimensions, see from page 692.

RATED CURRENT/ BREAKING CAPACITY	ADJUSTMENT RANGE		TYPE	EAN CODE	AVAILABLE	ORDER NO.
	OVERLOAD, RELEASE (A)	SHORT-CIRCUIT RELEASE (A)				
3-POLE (COMFORT BREAKING CAPACITY) 36 kA						
320 A/50 kA	250...320	1920...3200	MC3C-A320	9004840552263		MC332431
400 A/50 kA	320...400	2400...4000	MC3C-A400	9004840552270		MC340431
500 A/50 kA	400...500	3000...5000	MC3C-A500	9004840552287		MC350431
3-POLE (NORMAL BREAKING CAPACITY) 50 kA						
320 A/50 kA	250...320	1920...3200	MC3N-A320	9004840551211		MC332231
400 A/50 kA	320...400	2400...4000	MC3N-A400	9004840551228		MC340231
500 A/50 kA	400...500	3000...5000	MC3N-A500	9004840551235		MC350231
3-POLE (HIGH BREAKING CAPACITY) 150 kA						
320 A/150 kA	250...320	1920...3200	MC3H-A320	9004840551242		MC332331
400 A/150 kA	320...400	2400...4000	MC3H-A400	9004840551259		MC340331
500 A/150 kA	400...500	3000...5000	MC3H-A500	9004840551266		MC350331
4-POLE (NORMAL BREAKING CAPACITY) 50 kA						
320 A/50 kA	250...320	1920...3200	MC3N-4-A320	9004840551273		MC332241
400 A/50 kA	320...400	2400...4000	MC3N-4-A400	9004840551280		MC340241
500 A/50 kA	400...500	3000...5000	MC3N-4-A500	9004840551297		MC350241
4-POLE (HIGH BREAKING CAPACITY) 150 kA						
320 A/150 kA	250...320	1920...3200	MC3H-4-A320	9004840551310		MC332341
400 A/150 kA	320...400	2400...4000	MC3H-4-A400	9004840551327		MC340341
500 A/150 kA	400...500	3000...5000	MC3H-4-A500	9004840551303		MC350341



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■ CIRCUIT BREAKER 3/4-POLE UP TO 630 A WITH ELECTRONIC RELEASE TYPES MC3N-AE, MC3H-AE, MC3N-4-AE, MC3H-4-AE



MC325232

■ SCHRACK-INFO

- System and line protection
- Selective and generator protection
- 3- and 4-pole version
- RMS value measurement and “thermal memory”
- Adjustable overload release I_r: 0.5 – 1 x I_n (factory setting 0.8 x I_n)
- Adjustable short-circuit release I_s: 2 – 12 x I_n (factory setting 6 x I_n)
for MC3...-AE250/400: 2 – 11 x I_n (factory setting 6 x I_n)
for MC3...-AE630: 2 – 8 x I_n (factory setting 6 x I_n)
- Breaking capacity 50 / 150 kA at 415 V 50/60 Hz
- Screw terminals as standard, lift terminals as option
- Rated uninterrupted current = rated current
- Switches also available with reduced N-wire release
- For dimensions, see from page 692.

RATED CURRENT/ BREAKING CAPACITY	ADJUSTMENT RANGE		TYPE	EAN CODE	AVAILABLE	ORDER NO.
	OVERLOAD, RELEASE (A)	SHORT-CIRCUIT RELEASE (A)				
3-POLE (NORMAL BREAKING CAPACITY) 50 kA						
250 A/50 kA	125...250	500...2750	MC3N-AE250	9004840262032		MC325232
400 A/50 kA	200...400	800...4400	MC3N-AE400	9004840262049		MC340232
630 A/50 kA	315...630	1260...5040	MC3N-AE630	9004840262056		MC363232
3-POLE (HIGH BREAKING CAPACITY) 150 kA						
250 A/150 kA	125...250	500...2750	MC3H-AE250	9004840262063		MC325332
400 A/150 kA	200...400	800...4400	MC3H-AE400	9004840262070		MC340332
630 A/150 kA	315...630	1260...5040	MC3H-AE630	9004840262087		MC363332
4-POLE (NORMAL BREAKING CAPACITY) 50 kA						
400 A/50 kA	200...400	800...4400	MC3N-4-AE400	9004840386424		MC340242*
630 A/50 kA	315...630	1260...5040	MC3N-4-AE630	9004840386431		MC363242*
4-POLE (HIGH BREAKING CAPACITY) 150 kA						
400 A/150 kA	200...400	800...4400	MC3H-4-AE400	9004840386332		MC340342
630 A/150 kA	315...630	1260...5040	MC3H-4-AE630	9004840386349		MC363342

* Switch also available with reduced N-conductor release (MC3...242R), I_n N-conductor = 0.6 x I_n external conductor



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■ CIRCUIT BREAKER, 3/4 POLE UP TO 630 A WITH DELAYED ELECTRONIC RELEASE TYPES MC3N-VE, MC3H-VE, MC3N-4-VE, MC3H-4-VE



MC325233

■ SCHRACK-INFO

- System and line protection
- Selective and generator protection
- 3- and 4-pole version
- RMS value measurement and “thermal memory”
- Adjustable overload release I_r : $0.5 - 1 \times I_n$ (factory setting $0.8 \times I_n$)
- Adjustable time delay setting to overcome current peaks t_r : $2 - 20$ s at $6 \times I_r$ as well as infinity
- Adjustable delayed short-circuit releases I_{sd} : $2 - 10 \times I_r$ (factory setting $6 \times I_r$)
MC3...-4-VE630: $2 - 7 \times I_r$ (factory setting $6 \times I_r$)
- Adjustable time delay t_{sd} : Levels:
0, 20, 60, 100, 200, 300, 500, 750, 1000 ms (factory setting 0)
- Adjustable non-delayed short-circuit release I_i : $2 - 12 \times I_n$ (factory setting $12 \times I_n$)
MC3...-VE250/400: $2 - 11 \times I_n$ (factory setting $6 \times I_n$)
MC3...-VE630: $2 - 8 \times I_n$ (factory setting $6 \times I_n$)
- Switchable i^2t constant function (factory setting: OFF)
- Screw terminals as standard, lift terminals as option
- Rated uninterrupted current = rated current
- For dimensions, see from page 692.

RATED CURRENT/ BREAKING CAPACITY	OVERLOAD RELEASE (A)	ADJUSTMENT RANGE		TYPE	EAN CODE	AVAILABLE	ORDER NO.
		SHORT-CIRCUIT RELEASE NON-DELAYED (A)	SHORT-CIRCUIT RELEASE DELAYED (A)				
3-POLE (NORMAL BREAKING CAPACITY) 50 kA							
250 A/50 kA	125...250	500...2750	250...2500	MC3N-VE250	9004840262155		MC325233
400 A/50 kA	200...400	800...4400	400...4000	MC3N-VE400	9004840262162		MC340233
630 A/50 kA	315...630	1260...5040	472...4410	MC3N-VE630	9004840262179		MC363233
3-POLE (HIGH BREAKING CAPACITY) 150 kA							
250 A/150 kA	125...250	500...2750	250...2500	MC3H-VE250	9004840262186		MC325333
400 A/150 kA	200...400	800...4400	400...4000	MC3H-VE400	9004840262193		MC340333
630 A/150 kA	315...630	1260...5040	472...4410	MC3H-VE630	9004840262209		MC363333
4-POLE (NORMAL BREAKING CAPACITY) 50 kA							
400 A/50 kA	200...400	800...4400	400...4000	MC3N-4-VE400	9004840386448		MC340243
630 A/50 kA	315...630	1260...5040	472...4410	MC3N-4-VE630	9004840386455		MC363243
4-POLE (HIGH BREAKING CAPACITY) 150 kA							
400 A/150 kA	200...400	800...4400	400...4000	MC3H-4-VE400	9004840386356		MC340343
630 A/150 kA	315...630	1260...5040	472...4410	MC3H-4-VE630	9004840386363		MC363343

■ MOTOR PROTECTION, 3-POLE UP TO 450 A WITH ELECTRONIC RELEASE TYPES MC3N-ME, MC3H-ME



MC322237

■ SCHRACK-INFO

- Adjustable overload release I: 0.5 – 1 x I_n (factory setting 0.8 x I_n)
- Adjustable short-circuit release I: 2 – 14 x I_n (factory setting 12 x I_n)
- Adjustable time delay setting to overcome current peaks t: 2 – 20 s at 6 x I_r, as well as infinity (without overload release), (factory setting 10 s)
- RMS value measurement and “thermal memory”
- Phase failure sensitivity
- Screw terminals as standard, lift terminals as option
- Specification acc. to IEC/EN 60947-4 and IEC/EN 60947-2
- Circuit breakers satisfy all requirements of utilisation category AC3 at 400 V AC
- For dimensions, see from page 692.

NOMINAL CURRENT/ BREAKING CAPACITY/ POWER/CURRENT	ADJUSTMENT RANGE		TYPE	EAN CODE	AVAILABLE	ORDER NO.
	OVERLOAD RELEASE (A)	SHORT-CIRCUIT RELEASE (A)				
3-POLE (NORMAL BREAKING CAPACITY) 50 kA						
220 A/50 kA/110 kW/196 A	110...220	220...3080	MC3N-ME220	9004840386479		MC322237
350 A/50 kA/200 kW/349	175...350	350...4900	MC3N-ME350	9004840386486		MC335237
450 A/50 kA/250 kW/437 A	225...450	450...6300	MC3N-ME450	9004840615241		MC345237
3-POLE (HIGH BREAKING CAPACITY) 150 kA						
220 A/150 kA/110 kW/196 A	110...220	220...3080	MC3H-ME220	9004840386370		MC322337
350 A/150 kA/200 kW/349	175...350	350...4900	MC3H-ME350	9004840386387		MC335337
450 A/150 kA/250 kW/437 A	225...450	450...6300	MC3H-ME450	9004840628852		MC345337



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LOAD-BREAK SWITCH UP TO 630 A TYPES MC3-PN, MC3-PN-4, MC3-N, MC3-N-4



MC340035

SCHRACK-INFO

- 3- and 4-pole versions
- Rated uninterrupted current up to 630 A
- MC3-PN two switch positions 0/I, no remote release
- MC3-N, with trip positions "0", "+"; "I", with remote release, can be equipped with undervoltage/shunt release and trip-indicating auxiliary contact
- For load-break switches type MC...-N, undervoltage/shunt releases and trip-indicating auxiliary contacts can also be used.
- Can be combined with remote operator MC-XR...
- Screw terminals as standard, lift terminals as option
- Properties of main switches including positive drive according to IEC/EN 60204 and VDE 0113
- Isolating characteristics according to IEC/EN 60947-3 and VDE 0660, protection against accidental contact according to VDE 0160 Part 100
- Rated uninterrupted current = rated current
- Rated short-circuit breaking capacity: I_{cm} 25 kA
- Rated short-time current protection: I_{cw} 12 kA
- For dimensions, see from page 692.

RATED UNINTERRUPTED CURRENT	MAX. BACK-UP FUSE (gL) FOR LOAD-BREAK SWITCHES (AgL)	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
3-POLE, NO REMOTE RELEASE POSSIBLE					
400 A	630	MC3-PN-400	9004840386493		MC340034
630 A	630	MC3-PN-630	9004840386523		MC363034
4-POLE, NO REMOTE RELEASE POSSIBLE					
400 A	630	MC3-PN-4-400	9004840386509		MC340044
630 A	630	MC3-PN-4-630	9004840386516		MC363044
3-POLE, REMOTE RELEASE POSSIBLE					
400 A	630	MC3-N-400	9004840386394		MC340035
630 A	630	MC3-N-630	9004840386462		MC363035
4-POLE, REMOTE RELEASE POSSIBLE					
400 A	630	MC3-N-4-400	9004840386400		MC340045
630 A	630	MC3-N-4-630	9004840386417		MC363045



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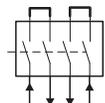
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LOAD-BREAK SWITCHES UP TO 500 A/1000 V TYPES MC3-N-4-...-S1-DC



MC340045DC



SCHRACK-INFO

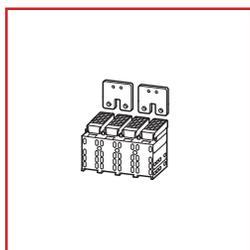
- 4-pole version / 2-pole switching
- Rated uninterrupted current up to 500 A
- With trip positions "0", "+", "I", with remote release, can be equipped with undervoltage or shunt release and trip-indicating auxiliary contact
- Terminal screws as standard, jumper kits* optional
- Can be combined with remote operator MC-XR
- Properties of main switches including positive drive according to IEC/EN 60204 and VDE 0113
- Isolating characteristics according to IEC/EN 60947 and VDE 0660, protection against accidental contact according to VDE 0160 Part 100
- Specifications acc. to IEC/EN 60947-3
- Rated uninterrupted current = rated current
- Rated short-time current protection: I_{cw} 5 kA
- Not available with withdrawable unit
- For dimensions, see from page 692.

NOTE

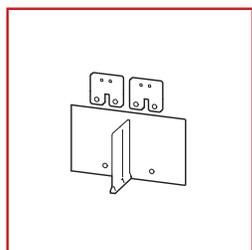
- MC-S1-DC ... cannot be combined with withdrawable unit and/or rear connection
- If $U_i > 1000$ V DC, cannot be combined with early-make auxiliary contacts MC ... XHIV and box terminal MC.-4-XKC
- Connection technology MC...-S1-DC: 2-pole switching requires series connection of 2 poles each
See accessories of jumper kits MC.-4-XKV..

RATED UNINTERRUPTED CURRENT AT DC 22-B/65 °C*	MAX. BACK-UP FUSE (gR)	TYPE	EAN CODE	AVAILABLE	ORDER NO.
4-POLE, REMOTE RELEASE POSSIBLE					
320 A	500	MC3-N-4-320-S1-DC	9004840626858		MC332045DC
400 A	500	MC3-N-4-400-S1-DC	9004840626872		MC340045DC
500 A	500	MC3-N-4-500-S1-DC	9004840627312		MC350045DC

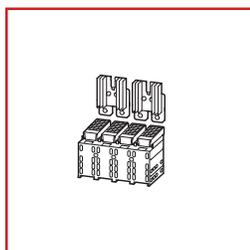
JUMPER KITS FOR TYPES MC3....-...-S1-DC / 1000V DC



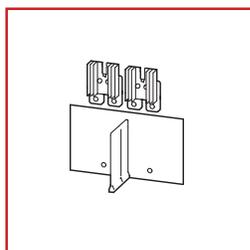
MC390602



MC390599



MC390601



MC390600

SCHRACK-INFO

- Types contain parts for upper switch side for 4-pole switches
- MC3-N...-S1-DC that are used with 2 poles for DC
- Each jumper switches 2 current paths in series
- Supply and outlet at bottom or top selectable
- For dimensions, see from page 692.

RATED UNINTERRUPTED CURRENT A°C	DEGREE OF PROTECTION	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
For MC3-N-320(400)-S1-DC					
with cover, 400 A/70°C	IP2x	MC3-4-XKV2P	9004840626926		MC390602
For MC3-N-400(500)-S1-DC					
with insulating plates, 500 A/50°C, 400 A/70°C	IP00	MC3-4-XKV12P	9004840627367		MC390599
For MC3-N-400(500)-S1-DC with cover					
and heat sinks, 500 A/55°C, 400 A/70°C	IP1x	MC3-4-XKV2P-K	9004840627343		MC390601
For MC3-N-500-S1-DC					
with insulating plates and heat sinks, 500 A/65°C	IP00	MC3-4-XKV12P-K	9004840627350		MC390600



Order no. blue: on stock, usually ready for delivery on the day of order!

SOCKET BASE AND WITHDRAWABLE MODULE FOR MC3



MC396711



MC396711

SCHRACK-INFO

- 3- and 4-pole version
- For circuit breaker MC3 and load-break switch MC3-N
- Not suitable for MC3-N-...DC
- For dimensions, see from page 692.

TECHNICAL DATA

- Withdrawable unit complete with control circuit plug unit
- I_n max. at 20 °C – 605 A
- I_n max. at 40 °C – 550 A
- Mounting position: vertical, 90° left
- 3 positions: retracted, test, extended. The 3 positions are shown mechanically.
- Auxiliary contacts can also be used for remote signalling. Either an NC or NO contact per position.
- All connections of auxiliary switches (HIA, HIN, HIV) and undervoltage and shunt releases to the control circuit plug units are already present.
- **Withdrawable unit and withdrawable module only available in combination with switch.**
- Add an A to switch part number (e.g.: MC340232A) – Switch will be supplied ready for use with withdrawable feature.
- Socket base can be ordered separately and supplied pre-assembled.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
SOCKET BASE				
Socket base, 3-pole	MC3-XAVS	9004840263701		MC396711
Socket base, 4-pole	MC3-4-XAVS	9004840387469		MC396712
WITHDRAWABLE MODULE				
Withdrawable module, 3-pole (delivered with switch, add an A to switch part number)				
Withdrawable module, 4-pole (delivered with switch, add an A to switch part number)				



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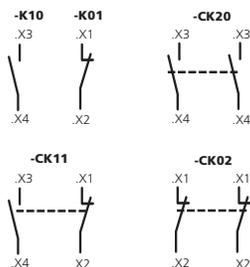
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STANDARD AUXILIARY CONTACT / TRIP-INDICATING AUXILIARY CONTACT TYPE M22



MM216378



SCHRACK INFO

- Switches with the main contacts, used for indicating and interlocking tasks
- General trip indication “+” with trip due to voltage release, overload release or short-circuit-release

TECHNICAL DATA

Breaking capacity: AC15: 4 A / 230 VAC
 DC13: 3 A / 24 VDC
 M22-K: 0.3 A / 220 VDC
 M22-CK: 0.2 A / 220 VDC

TIPS & TRICKS

The trip-indicating auxiliary contact is the same contact as the standard auxiliary contact. It derives its function from its place of installation (left is the alarm contact).

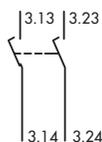
Maximum component installation MC3 with auxiliary contact: 3 x standard auxiliary contact (HIN) M22-K.. or M22CK..
 + 1 x trip-indicating auxiliary contact (HIA) M22-K.. or M22-CK..

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
1 NO contact with screw terminals	M22-K10	9004840176254		MM216376
1 NC contact with screw terminals	M22-K01	9004840176261		MM216378
2 NO contacts with spring terminals	M22-CK20	9004840547047		MM107898
2 NC contacts with spring terminals	M22-CK02	9004840547054		MM107899
1 NO contact + 1 NC contact with spring terminals	M22-CK11	9004840625783		MM107940

EARLY-MAKE AUXILIARY CONTACT TYPE MC3-XHIV



MC299430



SCHRACK INFO

- For interlock- and load-shedding circuits as well as for early make of undervoltage release in main switch/Emergency-stop applications.

TECHNICAL DATA

- Not in connection with undervoltage release MC3-XU... or shunt release MC3-XA... Early-make during switch on and off (manual switch): approx. 20 ms
- Not in connection with remote operator MC-XR Undervoltage or shunt releases
- Breaking capacity: AC15: 4 A / 230 VAC
 DC13: 3 A / 24 VDC, 0.2 A / 220 VDC

TIPS & TRICKS

Maximum component installation with auxiliary contact:
 1 x early-make auxiliary contact

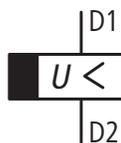
DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Early-make auxiliary switch, 2 NO	MC2/3-XHIV	9004840262285		MC299430



UNDervOLTAGE RELEASE TYPES MC3-XU



MC299499



SCHRACK INFO

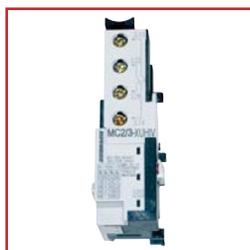
- For use in emergency stop devices in connection with EMERGENCY STOP button
- Installed in breaker
- Without auxiliary contact
- Non-delayed switching of circuit breaker MC/ load-break switch MC-N when the control voltage drops below 35% – 70% U_s .
- Other voltage variants available upon request.

TIPS & TRICKS

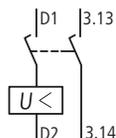
When the undervoltage release is de-energised, accidental contact with the main contacts of the switch is safely prevented during attempts to switch on. Undervoltage release cannot be installed simultaneously with a shunt release or early-make auxiliary contact MC2-XHIV.

VOLTAGE	TYPE	EAN CODE	AVAILABLE	ORDER NO.
24 VAC 50/60 Hz	MC2/3-XU24AC	9004840262360		MC299491
24 VDC 50/60 Hz	MC2/3-XU24DC	9004840262407		MC299509
208 - 240 VAC 50/60 Hz	MC2/3-XU208-240 AC	9004840262384		MC299499
380 - 440 VAC 50/60 Hz	MC2/3-XU380-440 AC	9004840262391		MC299501

UNDervOLTAGE RELEASE WITH TWO EARLY-MAKE AUXILIARY CONTACTS TYPES MC3-XUHIV



MC299591



SCHRACK INFO

- With 2 early-make auxiliary contacts
- For early-make of the undervoltage release in main switch applications and for interlock- and load-shedding circuits
- Installed in breaker
- Other voltage variants available upon request.

TIPS & TRICKS

When the undervoltage release is de-energised, accidental contact with the main contacts of the switch is safely prevented during attempts to switch on. Early-make of auxiliary contacts during switch on and off (20 ms). Undervoltage release cannot be installed simultaneously with a shunt release or early-make auxiliary contact MC2-XHIV.

VOLTAGE	TYPE	EAN CODE	AVAILABLE	ORDER NO.
208 - 240 VAC	MC2/3-XUHIV240 AC	9004840262452		MC299591
380 - 440 VAC	MC2/3-XUHIV400 AC	9004840262469		MC299594



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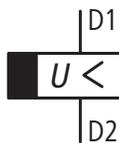
UNDervOLTAGE RELEASE, OFF-DELAY TYPES MC-UVU, MC-XUV



MC295927



MC299499



SCHRACK INFO

- Voltage drops of less than 16 s do not cause MC circuit breakers or MC-N load-break switches to trip..
- Voltage range:
 - 220-240 VAC 50/60 HZ
 - 380-440 VAC 50/60 HZ
 - 480-550 VAC 50/60 HZ
 - 24 VDC / AC
- For dimensions, see from page 692.

TECHNICAL DATA

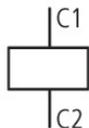
- Time-delay adjustable between 70 ms – 4 s
- With additional external capacitor:
 - 30,000 µF ≥ 35 V up to 8 s
 - 90,000 µF ≥ 35 V up to 16 s
- Special release MC2/3-XUV is required.
- Cannot be installed simultaneously with early-make auxiliary contact MC2-XHIV... or shunt release MC2-XA....
- Time-delay device for separate assembly (Mounting: DIN rail or screws).
- Use control transformer for other operating voltages.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Time delay device	MC-UVU	9004840520392		MC190154
Special undervoltage release for time-delay device UVU	MC2/3-XUV	9004840520613		MC299527

SHUNT RELEASE TYPES MC3-XA



MC299754



SCHRACK INFO

- Without auxiliary contact
- Switches are tripped by a voltage pulse or by the application of uninterrupted voltage
- Other voltage variants available upon request.

NOTE

When the shunt release is de-energised, accidental contact with the main contacts of the switch during attempts to switch on is safely prevented. Shunt release cannot be installed simultaneously with undervoltage release.

VOLTAGE	TYPE	EAN CODE	AVAILABLE	ORDER NO.
24 VAC/DC	MC2/3-XA24AC/DC	9004840262506		MC299754
110 - 130 VAC/DC	MC2/3-XA110-130 AC/DC	9004840262513		MC299760
208 - 250 VAC/DC	MC2/3-XA208-250 AC/DC	9004840262520		MC299763



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REMOTE OPERATOR FOR MC3



MC399850

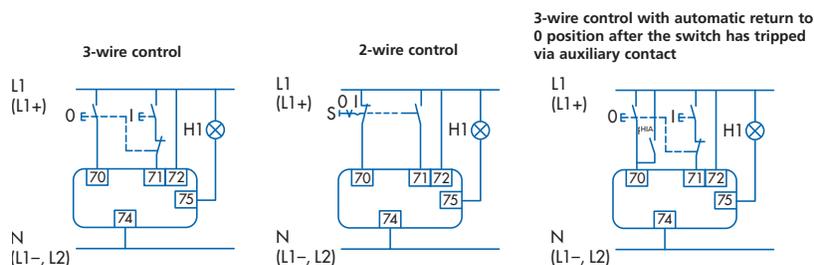
SCHRACK INFO

- Remote operator can be combined with circuit breaker MC and load-break switch MC-N, but not with load-break switch MC-PN.
- Do not switch off switch simultaneously via remote control and release via undervoltage/shunt release.
- 1 auxiliary contact MM-K(CK).. must be installed in circuit breaker (included with remote operator)
- Other voltage variants available upon request.
- For dimensions, see from page 692.

TECHNICAL DATA

- On/Off switching and reset by means of continuous or pulse contact.
- Can be synchronised
- Switching time, ON: ≤ 80 ms
- Local switching by hand possible
- Pause between Off and On: 3 sec.
On command is ignored
- Function of terminal 75:
Ready for operation signal, when cover is closed and not locked.
AC-15: 2 A / 400 V
DC-13: 0.2 A / 220 V

CIRCUIT DIAGRAMS

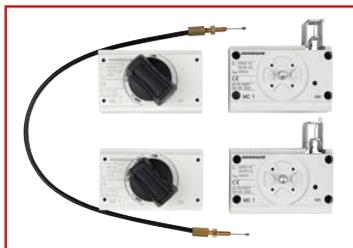


SWITCHING CYCLE



VOLTAGE	TYPE	EAN CODE	AVAILABLE	ORDER NO.
208 - 240 V AC	MC3-XR208-240 AC	900484026212		MC399850
Additional cover for 4-pole switches	MC3-XAVPR	9004840386967		MC396678

MECHANICAL INTERLOCK FOR (DOOR COUPLING-) ROTARY HANDLES FOR MC3



MC391583 + MC191585

SCHRACK INFO

- **Rotary handle on switch or door coupling rotary handle additionally required.**
- Cannot be combined with door sealing frame
- At least 2 interlocking modules are required to construct a mechanical interlock.
- Order Bowden cable separately
- For dimensions, see from page 692.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Mechanical interlock	MC3-XMV	9004840403244		MC391583
Bowden cable 225 mm	MC XBZ225	9004840403206		MC191585
Bowden cable 600 mm	MC XBZ600	9004840403213		MC191586
Bowden cable 1000 mm	MC XBZ600	9004840403220		MC191587

MECHANICAL INTERLOCK FOR REMOTE OPERATOR MC3-XR



MC294544



MC294544 - mounted

SCHRACK INFO

- For 2 switches of the same or next frame size side by side
- Side-by-side mounting
- Mounted on top of each other, long version
- Type contains parts for 2 switches
- Remote operators also required
- For dimensions and maximum switch clearances, see from page 692.

NOTE

Cannot be combined with rotary handles, door coupling rotary handles and early-make auxiliary contacts.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Mechanical interlock for MC2/3	MC2/3-XMVR	9004840520736		MC294544
Mechanical interlock for MC2/3 long version	MC2/3-XMVRL	9004840520804		MC294549
Mechanical interlock for MC3	MC3-XMVR	9004840520293		MC394545
Mechanical interlock for MC3 long version	MC3-XMVRL	9004840521108		MC394550
Mechanical interlock for MC3/4	MC3/4-XMVR	9004840520705		MC394546
Mechanical interlock for MC3/4 long version	MC3/4-XMVRL	9004840521092		MC394551

ROTARY HANDLE DIRECTLY ON SWITCH FOR MC3



MC390129

SCHRACK INFO

- Complete with rotary drive
- Can also be combined with door sealing frame
- For dimensions, see from page 692.

TECHNICAL DATA

Available in the following versions:

Type MC.-XDV

Lockable in position "0" (up to three padlocks), black/grey

Type MC.-XDVR

Lockable in position "0" (up to three padlocks), EMERGENCY STOP red/yellow

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Rotary handle for MC3 lockable, black/grey	MC3-XDV	9004840262742		MC390129
Rotary handle for MC3 lockable, Emergency Stop, red/yellow	MC3-XDVR	9004840262797		MC390140



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DOOR COUPLING ROTARY HANDLES AND MAIN SWITCH KITS FOR MC3



MC390170 - Rotary drive



MC390170 - Coupling part



MC390170 - Rotary handle

SCHRACK INFO

- Complete including rotary drive and coupling parts
- Degree of protection IP66
- Rotary handle can be rotated 90° for switches mounted horizontally
- Cannot be defeated in the locked OFF and ON positions
- Can be modified when in the unlocked ON position, can be defeated from the outside with a screwdriver
- Door can be opened in OFF
- External warning plate/additional plate can be clipped on
- For dimensions, see from page 692.

NOTE

- Order extension shaft separately!

TECHNICAL DATA

Available in the following versions:

Type MC.-XTVD

Lockable in position "0" on handle with up to three padlocks, with door interlock, black/grey

Type MC.-XTVDV

Lockable in position "0" on handle and switch with up to three padlocks, with door interlock, black/grey

Type MC.-XTVDVR

Lockable in position "0" on handle and switch with up to three padlocks, with door interlock, EMERGENCY STOP red/yellow

Main switch kit consisting of:

- Door coupling rotary handle + rotary drive XTVD/XTVDR
- Extension shaft XV4
- External warning plate
- Lightning arrow

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
DOOR COUPLING ROTARY HANDLES				
For MC3 with door interlock, lockable, black/grey	MC3-XTVD	9004840262896		MC390170
For MC3 with door interlock, lockable, "0", "1", black/grey	MC3-XTVDV	9004840262926		MC390176
For MC3 with door interlock, lockable, Emergency Stop, red/yellow	MC3-XTVDVR	9004840262957		MC390182
MAIN SWITCH KITS				
For MC3 lockable, black/grey	MC3-XHB	9004840263589		MC396628
For MC3 lockable, Emergency Stop, red/yellow	MC3-XHBR	9004840263619		MC396634

EXTENSION SHAFT FOR MC3



MC390193

SCHRACK INFO

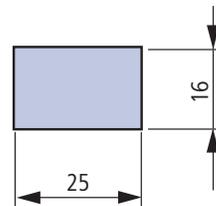
- For maximum cabinet depths of 400 or 600 mm
- Can be cut to required length
- For dimensions, see from page 692.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Extension shaft for MC3, max. 400 mm	MC3/4-XV4	9004840263060		MC391234
Extension shaft for MC3, max. 600 mm	MC3/4-XV6	9004840262971		MC390193

BOX TERMINALS FOR MC3



MC390042



Max. opening of box terminal

SCHRACK INFO

- Installed within the switch housing
- If $U_e \geq 525$ V AC, use cover plate MC3(-4)-XS kA
- Conversion kit for switches with screw connection
- Contains parts for one switch side
- Terminal capacities:
Copper lines/cables 500 A: 1 x (35 to 240 mm²)
2 x (16 to 120 mm²)
Copper strip 630 A: 10 x (24 x 1) + 5 x (24 x 1) or 2 x (8 x 24 x 1)
- For dimensions, see from page 692.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Box terminal (3 pcs. included) for MC3	MC3-XKC	9004840262674		MC390042
Box terminal (4 pcs. included) for MC3-4	MC3-4-XKC	9004840387186		MC396783



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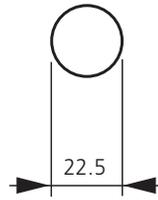
TUNNEL TERMINAL FOR MC3



MC391459



MC391461



SCHRACK INFO

- Contains parts for one switch side located at top or bottom for 3 or 4-pole switches
- Standard with control circuit terminal for 1 x (0.75 to 2.5 mm²), 2 x (0.75 to 1.5 mm²) Cu wire
- Terminal capacities:
XKA1 max. 350 A: Cu/Al cable 1 x (16 to 185 mm²)
XKA2 max. 630 A: Cu/Al cable 2 x (50 to 240 mm²)
(* depending on cable manufacturer up to 240 mm² can be connected)
- Installation outside switch housing
- Cover MC3(-4)-XKSA (included)
- For dimensions, see from page 692.

TECHNICAL DATA

- For Cu- and Al cables
- Including cover
- Stranded round conductor / stranded sector-shaped conductor

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Tunnel terminal 185 mm ² for MC3 3-pole	MC3-XKA1	9004840373493		MC391459
Tunnel terminal 2 x 240 mm ² for MC3 3-pole	MC3-XKA2	9004840373486		MC391461
Tunnel terminal 185 mm ² for MC3-4 4-pole	MC3-4-XKA1	9004840387216		MC391460
Tunnel terminal 2 x 240 mm ² for MC3-4 4-pole	MC3-4-XKA2	9004840387223		MC391462

CABLE LUG FOR MC3



MC390041

SCHRACK INFO

- Special cable lug in slimline design
- The cable lugs must be insulated when using without a cover plate.
- For dimensions, see from page 692.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Cable lug 185 mm ² , for MC3	MC3/4-XKS185	9004840263886		MC390040
Cable lug 240 mm ² , for MC3	MC3/4-XKS240	9004840262667		MC390041

REAR CONNECTION FOR MC3



MC396792

SCHRACK INFO

- Contains parts for one switch side located at top or bottom for 3- or 4-pole switches
- Terminal capacities: Copper cable 2 x (16 – 240 mm²)
- For dimensions, see from page 692.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Rear connection, 3-pole for MC3	MC3-XKR	9004840263800		MC396792
Rear connection, 4-pole for MC3-4	MC3-4-XKR	9004840387230		MC396795

CONNECTION WIDTH EXTENSION FOR MC3



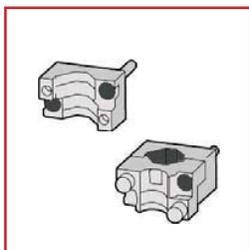
MC390514

SCHRACK INFO

- Contains parts for one switch side incl. phase isolator
- Central holes, max. 2 cable lugs per phase
- Distance between pole centres 70 mm
- Terminal capacities: Cu cable lugs 2 x 300 mm²
Cu rail 2 x (10 x 50)
- For dimensions, see from page 692.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Connection width extension, 3-pole 630 A for MC3	MC3-XKV70	9004840417951		MC390514
Connection width extension, 4-pole 630 A for MC3	MC3-4-XKV70	9004840417968		MC390515

CONNECTION TERMINALS FOR CONNECTION WIDTH EXTENSION MC3



MC390782 + MC390784

SCHRACK INFO

- Contains parts for one switch side located at top or bottom for 3- or 4-pole switches
- Only in combination with connection width extension
- Use with flexible and highly-flexible conductor end sleeves
- Standard with control circuit terminal for 1 x (0.75 to 2.5 mm²)
or 2 x 0.75 to 1.5 mm² Cu wire
- Terminal capacities: Copper cable 2 x (120 – 300 mm²)
Copper strip 2 x (11 x 21 x 1)
- For dimensions, see from page 692.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
3-POLE				
Terminals for connection width extension, 500 A for cable	MC3-XK300	9004840521023		MC390782
Terminals for connection width extension, 630 A for strip	MC3-XK22X21	9004840521030		MC390784
4-POLE				
Terminals for connection width extension, 500 A for cable	MC3-4-XK300	9004840521016		MC390783
Terminals for connection width extension, 630 A for strip	MC3-4-XK22X21	9004840521047		MC390785

PHASE ISOLATOR FOR MC3



MC390513

SCHRACK INFO

- Contains parts for one switch side located at top or bottom for 3- or 4-pole switches
- Are included in the connection width extension MC3(-4)-XKV70
- Insulation protection where cable lugs, busbars or flat conductor are connected.
- Cannot be combined with tunnel terminal, rear connection
- For dimensions, see from page 692.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Phase isolator for MC3 (2 pcs.)	MC3-XKP	9004840417975		MC390512
Phase isolator for MC3-4 (3 pcs.)	MC3-4-XKP	9004840417982		MC390513

CONTROL CIRCUIT TERMINAL FOR MC3



MC196739

SCHRACK INFO

- Contains parts for two terminals located at top or bottom for 3/4-pole switches
- Included with tunnel terminal
- Terminal capacities: Screw terminal 1 x (0.75 to 2.5 mm²), 2 x (0.75 to 1.5 mm²)
- For dimensions, see from page 692.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Control circuit connection for box terminal MC3	MC-XSTK	9004840263893		MC196739
Control circuit connection for screw terminal MC3	MC3/4-XSTS	9004840387247		MC396797

TERMINAL COVER FOR MC3



MC390045

SCHRACK INFO

- Protection against accidental contact when cable lugs/rails are connected or tunnel terminals are used
- Contains parts for one switch side located at top or bottom for 3- or 4-pole switches
- Degree of protection IP4X front, side and rear, IP1X on the connection side when using insulated conductor material
- Cover plate already comes with tunnel terminals
- For dimensions, see from page 692.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Terminal cover, 3-pole, for MC3	MC3-XKSA	9004840262681		MC390045
Terminal cover, 4-pole, for MC3-4	MC3-4-XKSA	9004840387254		MC396801

IP2X FINGER PROTECTION DIRECT-MOUNTED ON SWITCHES MC3



MC396804



MC396808

SCHRACK INFO

- Increases the protection against accidental contact to IP2X
- Protection when reaching into the cable connection area when cables are connected in box terminal
- For 2 conductors, minimum cross-section is 70 mm²
- MC3-XIPK and MC3-4-XIPK for direct mounting on switches
- MC3-XIPA and MC3-4-XIPA only in combination with cover plate MC3(-4)-XKSA
- For dimensions, see from page 692.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
FOR SWITCHES WITH BOX TERMINAL				
Finger protection, 3-pole, for MC3	MC3-XIPK	9004840387261		MC396804
Finger protection, 4-pole, for MC3-4	MC3-4-XIPK	9004840387278		MC396805
FOR SWITCHES WITH TERMINAL COVER				
Finger protection, 3-pole, for MC3	MC3-XIPA	9004840387285		MC396808
Finger protection, 4-pole, for MC3-4	MC3-4-XIPA	9004840387292		MC396809

INSULATED ENCLOSURE XCI



MC391525

SCHRACK INFO

- Only for switches with box terminals for direct cable connection
- With door coupling rotary handle
- Complete including all necessary functional parts
- Degree of protection IP65
- Comes with gland plates
- For dimensions, see from page 692.

TECHNICAL DATA

Enclosure suitable for installation of circuit-breakers and load-break switches for separate mounting with top and bottom cable entry. Including fixing straps for wall mounting.

Short circuit protection at 415 V 50/60 Hz up to 10 kA.

Not in combination with remote operator, plug-in or withdrawable unit.

Additional insulated terminal for 4th or 5th pole must be ordered separately.

Available in the following versions:

Standard, black/grey

Lockable in position "0" on handle with up to 3 padlocks. Additionally with cover interlock.

For EMERGENCY STOP, red/yellow

Lockable on handle and switch with up to 3 padlocks. Lockable in the position "0" on handle. Additionally with cover interlock and lockable at switch in position "0".

DESCRIPTION	MAX. RATED UNINTERRUPTED CURRENT	TYPE	EAN CODE	AVAILABLE	ORDER NO.
STANDARD, BLACK/GREY					
For MC3(-4)	≤ 400 A	MC3-XCI48-TVD	9004840521078		MC391525
FOR EMERGENCY STOP, RED/YELLOW					
For MC3(-4)	≤ 400 A	MC3-XCI48-TVD	9004840521085		MC391530



COMPONENT ADAPTERS FOR CIRCUIT-BREAKERS AND LOAD-BREAK SWITCHES FOR 60 mm BUSBAR SYSTEM MC3



MC391668

SCHRACK INFO

- Cover plate MC-XKR necessary for frame size 2 and 3.
- For mounting on flat copper rails 12 x 5 mm to 30 x 10 mm
- Double T and triple T profile
- For snapping onto the voltage-free busbar
- Rated operational voltage Ue: 690 V
- For dimensions, see from page 692.

TECHNICAL DATA

MC 3 up to 630 A:

- Connection to system from top
- Cover plate MC3-XKR13 with rear connection required for component adapter

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
60 mm busbar adapter 550 A for MC3, 3-pole	32170	9004840413694		MC391700
Cover for component adapter, 3-pole	MC3-XKR13	9004840403312		MC391668

DOOR SEALING FRAME FOR MC3



MC394645

SCHRACK INFO

- For toggle levers, rotary handles with rotary drive and remote operator
- Degree of protection IP40
- For rectangular cut-out on doors and enclosures with material thicknesses of 1.5 – 5 mm
- External warning plate / additional plate (optional) clipped
- For dimensions, see from page 692.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Door sealing frame for MC3	MC3-XBR	9004840415735		MC394645



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TOGGLE LEVER LOCKING DEVICE FOR MC3



MC290201

SCHRACK INFO

- Off position lockable with up to 3 padlocks (shackle thickness 4 – 8 mm)
- Cannot be combined with door sealing frame
- For dimensions, see from page 692.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Toggle lever locking device for MC3	MC2/3-XXAV	9004840521009		MC290201

SPACERS FOR MC3



MC390211

SCHRACK INFO

- Enables fast and low-priced adjustment of various frame sizes with/without rotary handle or remote operator at same front depth
- Grid depth 17.5 mm, thread M5
- One set contains 4 x spacers
- 4 fastening screws included per switch
- For dimensions, see from page 692.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Spacers for MC3	MC3/4-XAB	9004840263015		MC390211



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■ CIRCUIT BREAKER 3/4-POLE UP TO 1600 A WITH ELECTRONIC RELEASE TYPES MC4N-AE, MC4H-AE, MC4N-4-AE, MC4H-4-AE



MC463232

■ SCHRACK-INFO

- System and line protection
- 3- and 4-pole versions
- RMS value measurement and “thermal memory”
- Adjustable overload release I_r: 0.5 – 1 x I_n (factory setting 0.8 x I_n)
- Adjustable short-circuit release I_s: 2 – 12 x I_n (factory setting 6 x I_n)
- Breaking capacity 50 / 85 kA at 415 V 50/60 Hz
- Screw terminals as standard
- Rated uninterrupted current = rated current
- For dimensions, see from page 700.

RATED CURRENT/ BREAKING CAPACITY	ADJUSTMENT RANGE		TYPE	EAN CODE	AVAILABLE	ORDER NO.
	OVERLOAD, RELEASE (A)	SHORT-CIRCUIT RELEASE (A)				
3-POLE (NORMAL BREAKING CAPACITY) 50 kA						
630 A/50 kA	315...630	1260...7560	MC4N-AE630	9004840263091		MC463232
800 A/50 kA	400...800	1600...9600	MC4N-AE800	9004840263107		MC480232
1000 A/50 kA	500...1000	2000...12000	MC4N-AE1000	9004840263114		MC410232
1250 A/50 kA	630...1250	2500...15000	MC4N-AE1250	9004840263121		MC412232
1600 A/50 kA	800...1600	3200...19200	MC4N-AE1600	9004840263138		MC416232
3-POLE (HIGH BREAKING CAPACITY) 85 kA						
630 A/85 kA	315...630	1260...7560	MC4H-AE630	9004840263145		MC463332
800 A/85 kA	400...800	1600...9600	MC4H-AE800	9004840263152		MC480332
1000 A/85 kA	500...1000	2000...12000	MC4H-AE1000	9004840263169		MC410332
1250 A/85 kA	630...1250	2500...15000	MC4H-AE1250	9004840263176		MC412332
1600 A/85 kA	800...1600	3200...19200	MC4H-AE1600	9004840263183		MC416332
4-POLE (NORMAL BREAKING CAPACITY) 50 kA						
800 A/50 kA	400...800	1600...9600	MC4N-4-AE800	9004840386813		MC480242
1000 A/50 kA	500...1000	2000...12000	MC4N-4-AE1000	9004840386783		MC410242
1250 A/50 kA	630...1250	2500...15000	MC4N-4-AE1250	9004840386790		MC412242
1600 A/50 kA	800...1600	3200...19200	MC4N-4-AE1600	9004840386806		MC416242
4-POLE (HIGH BREAKING CAPACITY) 85 kA						
800 A/85 kA	400...800	1600...9600	MC4H-4-AE800	9004840386660		MC480342
1000 A/85 kA	500...1000	2000...12000	MC4H-4-AE1000	9004840386639		MC410342
1250 A/85 kA	630...1250	2500...15000	MC4H-4-AE1250	9004840386646		MC412342
1600 A/85 kA	800...1600	3200...19200	MC4H-4-AE1600	9004840386653		MC416342

Higher breaking capacity available upon request.



■ CIRCUIT BREAKER, 3/4 POLE UP TO 1600 A WITH DELAYED ELECTRONIC RELEASE TYPES MC4N-VE, MC4H-VE, MC4N-4-VE, MC4H-4-VE



MC463233

■ SCHRACK-INFO

- System and line protection
- Selective and generator protection
- 3 - and 4-pole versions
- Rated uninterrupted current = rated current
- For dimensions, see from page 700.

■ TECHNICAL DATA

- RMS value measurement and “thermal memory”
- Adjustable overload release I_r : 0.5 – 1 x I_n (factory setting 0.8 x I_n)
- Adjustable time delay setting to overcome current peaks t_r : 2 – 20 s at 6 x I_r as well as infinity
- Adjustable delayed short-circuit releases I_{sd} : 2 – 10 x I_r (factory setting 6 x I_r)
- Adjustable time delay t_{sd} : Levels: 0, 20, 60, 100, 200, 300, 500, 750, 1000 ms (factory setting 0)
- Adjustable non-delayed short-circuit release I_i : 2 – 12 x I_n (factory setting 12 x I_n)
- Switchable i^2t constant function (factory setting: OFF)
- MC4.-VE...: 2 – 12 x I_n (factory setting 12 x I_n)
- Switches also available with reduced N-wire release

RATED CURRENT/ BREAKING CAPACITY	OVERLOAD RELEASE (A)	ADJUSTMENT RANGE		TYPE	EAN CODE	AVAILABLE	ORDER NO.
		SHORT-CIRCUIT RELEASE NON-DELAYED (A)	DELAYED (A)				
3-POLE (NORMAL BREAKING CAPACITY) 50 kA							
630 A/50 kA	315...630	1260...7560	630...6300	MC4N-VE630	9004840263190		MC463233
800 A/50 kA	400...800	1600...9600	800...8000	MC4N-VE800	9004840263206		MC480233
1000 A/50 kA	500...1000	2000...12000	1000...10000	MC4N-VE1000	9004840263213		MC410233
1250 A/50 kA	630...1250	2500...15000	1250...12500	MC4N-VE1250	9004840263220		MC412233
1600 A/50 kA	800...1600	3200...19200	1600...16000	MC4N-VE1600	9004840263237		MC416233
3-POLE (HIGH BREAKING CAPACITY) 85 kA							
630 A/85 kA	315...630	1260...7560	630...6300	MC4H-VE630	9004840263244		MC463333
800 A/85 kA	400...800	1600...9600	800...8000	MC4H-VE800	9004840263251		MC480333
1000 A/85 kA	500...1000	2000...12000	1000...10000	MC4H-VE1000	9004840263268		MC410333
1250 A/85 kA	630...1250	2500...15000	1250...12500	MC4H-VE1250	9004840263275		MC412333
1600 A/85 kA	800...1600	3200...19200	1600...16000	MC4H-VE1600	9004840263282		MC416333
4-POLE (NORMAL BREAKING CAPACITY) 50 kA							
800 A/50 kA	400...800	1600...9600	800...8000	MC4N-4-VE800	9004840386851		MC480243
1000 A/50 kA	500...1000	2000...12000	1000...10000	MC4N-4-VE1000	9004840386820		MC410243*
1250 A/50 kA	630...1250	2500...15000	1250...12500	MC4N-4-VE1250	9004840386837		MC412243*
1600 A/50 kA	800...1600	3200...19200	1600...16000	MC4N-4-VE1600	9004840386844		MC416243
4-POLE (HIGH BREAKING CAPACITY) 85 kA							
800 A/85 kA	400...800	1600...9600	800...8000	MC4H-4-VE800	9004840386707		MC480343
1000 A/85 kA	500...1000	2000...12000	1000...10000	MC4H-4-VE1000	9004840386677		MC410343
1250 A/85 kA	630...1250	2500...15000	1250...12500	MC4H-4-VE1250	9004840386684		MC412343
1600 A/85 kA	800...1600	3200...19200	1600...16000	MC4H-4-VE1600	9004840386691		MC416343

* Switch also available with reduced N-conductor release (MC4..243R), I_r N-conductor = 0.6 x I_r external conductor



Order no. blue: on stock, usually ready for delivery on the day of order!

MOTOR PROTECTION, 3-POLE UP TO 1400 A WITH ELECTRONIC RELEASE TYPES MC4N-ME, MC4H-ME



MC455237

SCHRACK-INFO

- Adjustable overload release I_l : $0.5 - 1 \times I_n$ (factory setting $0.8 \times I_n$)
- Adjustable short-circuit release I_s : $2 - 14 \times I_n$ (factory setting $12 \times I_n$)
- Adjustable time delay setting to overcome current peaks t : $2 - 20$ s at $6 \times I_l$, as well as infinity (without overload release), (factory setting 10 s)
- RMS value measurement and "thermal memory"
- Phase failure sensitivity
- Screw terminals as standard, lift terminals as option
- Specification acc. to IEC/EN 60947-4 and IEC/EN 60947-2
- Circuit breakers satisfy all requirements of utilisation category AC3 at 400 V AC
- For dimensions, see from page 700.

NOTES

Rated operational power/current at 690 VAC:

MC4-ME550: $P_e = 560$ kW; $I_e = 550$ A

MC4-ME875 (ME1400): $P_{e \text{ max.}} = 600$ kW; $I_e = 588$ A

NOMINAL CURRENT/ BREAKING CAPACITY/ POWER AC3/CURRENT AC3	ADJUSTMENT RANGE		TYPE	EAN CODE	AVAILABLE	ORDER NO.
	OVERLOAD RELEASE (A)	SHORT-CIRCUIT RELEASE (A)				
3-POLE (NORMAL BREAKING CAPACITY) 50 kA						
550 A/50 kA/315 kW/544 A	275...550	550...7700	MC4N-ME550	9004840386875		MC455237
875 A/50 kA/500 kW/820 A	438...875	875...12250	MC4N-ME875	9004840386882		MC487237
1400 A/50 kA/630 kW/1066 A	700...1400	1400...19600	MC4N-ME1400	9004840386868		MC414237
3-POLE (HIGH BREAKING CAPACITY) 85 kA						
550 A/85 kA/315 kW/544 A	275...550	550...7700	MC4H-ME550	9004840386721		MC455337
875 A/85 kA/500 kW/820 A	438...875	875...12250	MC4H-ME875	9004840386738		MC487337
1400 A/85 kA/630 kW/1066 A	700...1400	1400...19600	MC4H-ME1400	9004840386714		MC414337



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LOAD-BREAK SWITCH 3-/4-POLE UP TO 1600 A, FOR REMOTE RELEASE TYPES MC4-N, MC4-N-4



MC480035

SCHRACK-INFO

- 3- and 4-pole versions
- Properties of main switches including positive drive according to IEC/EN 60204 and VDE 0113
- Isolating characteristics according to IEC/EN 60947-3 and VDE 0660, protection against accidental contact according to VDE 0160 Part 100
- Rated uninterrupted current up to 1600 A
- With trip positions "0", "+"; "I", with remote release, can be equipped with undervoltage/shunt release and trip-indicating auxiliary contact
- Can be combined with remote operator MC-XR...
- Screw terminals as standard
- Rated uninterrupted current = rated current
- Rated short-circuit breaking capacity: I_{cm} 53 kA
- Rated short-time current protection: I_{cw} 25 kA
- For dimensions, see from page 700.

RATED UNINTERRUPTED CURRENT	MAX. BACK-UP FUSE (gL) FOR LOAD-BREAK SWITCHES (AgL)	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
3-POLE, REMOTE RELEASE POSSIBLE					
800 A	1600	MC4-N-800	9004840263299		MC480035
1000 A	1600	MC4-N-1000	9004840263305		MC410035
1250 A	1600	MC4-N-1250	9004840263312		MC412035
1600 A	1600	MC4-N-1600	9004840263329		MC416035
4-POLE, REMOTE RELEASE POSSIBLE					
800 A	1600	MC4-N-4-800	9004840386776		MC480045
1000 A	1600	MC4-N-4-1000	9004840386745		MC410045
1250 A	1600	MC4-N-4-1250	9004840386752		MC412045
1600 A	1600	MC4-N-4-1600	9004840386769		MC416045



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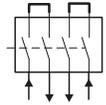
- Access technical product information at any time and from everywhere
- See availability and price immediately
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LOAD-BREAK SWITCHES UP TO 1400 A/1000 V TYPES MC4-N-4-...-S1-DC



MC412045DC



SCHRACK-INFO

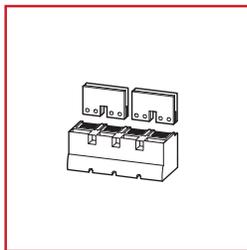
- 4-pole version / 2-pole switching
- Rated uninterrupted current up to 1400 A
- With trip positions "0", "+", "I", with remote release, can be equipped with undervoltage or shunt release and trip-indicating auxiliary contact
- Terminal screws as standard, jumper kits* optional
- Can be combined with remote operator MC-XR
- Properties of main switches including positive drive according to IEC/EN 60204 and VDE 0113
- Isolating characteristics according to IEC/EN 60947 and VDE 0660, protection against accidental contact according to VDE 0160 Part 100
- Specifications acc. to IEC/EN 60947-3
- Rated uninterrupted current = rated current
- Rated short-time current protection: I_{cw} 25 kA
- Not available with withdrawable unit
- For dimensions, see from page 700.

NOTE

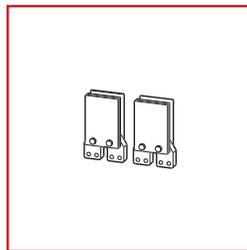
- MC-S1-DC ... cannot be combined with withdrawable unit and/or rear connection
- If $U_i > 1000$ V DC, cannot be combined with early-make auxiliary contacts MC ... XHIV and box terminal MC.-4-XKC
- Connection technology MC...-S1-DC: 2-pole switching requires series connection of 2 poles each
See accessories of jumper kits MC.-4-XKV..

RATED UNINTERRUPTED CURRENT AT DC 21-B/65 °C*	MAX. BACK-UP FUSE (gR)	TYPE	EAN CODE	AVAILABLE	ORDER NO.
4-POLE, REMOTE RELEASE POSSIBLE					
800 A	1600	MC4-N-4-800-S1-DC	9004840628920		MC480045DC
1000 A	1600	MC4-N-4-1000-S1-DC	9004840626889		MC410045DC
1250 A	1600	MC4-N-4-1250-S1-DC	9004840626896		MC412045DC
1400 A	1600	MC4-N-4-1400-S1-DC	9004840626902		MC414045DC

JUMPER KITS FOR TYPE MC4...-...-S1-DC / 1000 V DC



MC490602



MC490612

SCHRACK-INFO

- Types contain parts for upper switch side for 4-pole switches
- MC4-N...-S1-DC that are used with 2 poles for DC
- Each jumper switches 2 current paths in series
- Supply and outlet at bottom or top selectable
- ≥ 1250 A: FOR 65 °C ambient temperature, Connector at the bottom of module plates MC4-4-XKM2S-1600
- For dimensions, see from page 700.

RATED UNINTERRUPTED CURRENT A/°C	DEGREE OF PROTECTION	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
For MC4-N...-S1-DC					
with cover, 1400 A/40 °C, 1250 A/65 °C	IP2x	MC4-4-XKV2P	9004840626933		MC490602
For MC4-N-1400-S1-DC					
with heat sink, 1400 A/65 °C	IP00	MC4-4-XKV2P-1400	9004840626940		MC490612

SOCKET BASE AND WITHDRAWABLE MODULE FOR MC4



MC496713



MC496713

SCHRACK-INFO

- 3- and 4-pole version
- For circuit breaker MC4 and load-break switch MC4-N
- Not suitable for MC4-N-...-DC
- For dimensions, see from page 700.

TECHNICAL DATA

- Withdrawable unit complete with control circuit plug unit
- I_n max. at 20 °C – 1600 A
- I_n max. at 40 °C – 1500 A
- Mounting position: vertical
- 3 positions: retracted, test, extended. The 3 positions are shown mechanically.
- Auxiliary contacts can also be used for remote signalling. Either an NC or NO contact per position.
- All connections of auxiliary switches (HIA, HIN, HIV) and undervoltage and shunt releases to the control circuit plug units are already present.
- **Withdrawable unit and withdrawable module only available in combination with switch.**
- Add an A to switch part number (e.g.: MC463233A), will be supplied prepared for withdrawable units.
- Socket base can be ordered separately and supplied pre-assembled.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
SOCKET BASE				
Socket base, 3-pole	MC4-XAVS	9004840263718		MC496713
Socket base, 4-pole	MC4-4-XAVS	9004840387476		MC496714

WITHDRAWABLE MODULE

Withdrawable module, 3-pole (delivered with switch, add an A to switch part number)

Withdrawable module, 4-pole (delivered with switch, add an A to switch part number)



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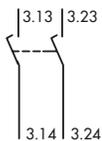
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EARLY-MAKE AUXILIARY CONTACT TYPE MC4-XHIV



MC496172



SCHRACK INFO

- For interlock- and load-shedding circuits as well as for early-make of undervoltage release in main switch/Emergency-stop applications.

TECHNICAL DATA

- Not in connection with undervoltage release MC4-XU... or shunt release MC4-XA... Early-make during switch on and off (manual switch): approx. 20 ms
- Not in connection with remote operator MC-XR
Undervoltage- or shunt voltage releases
- Breaking capacity: AC15: 4 A / 230 VAC
DC13: 3 A / 24 VDC, 0.2 A / 220 VDC

TIPS & TRICKS

Maximum component installation with auxiliary contact:

1 x early-make auxiliary contact

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Early-make auxiliary switch, 2 NO contacts	MC4-XHIV	9004840263336		MC496172



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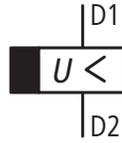
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UNDervOLTAGE RELEASE TYPES MC4-XU



MC496189



SCHRACK INFO

- For use in emergency stop devices in connection with EMERGENCY STOP button
- Installed in breaker
- Without auxiliary contact
- Non-delayed switching of circuit breaker MC/ load-break switch MC-N when the control voltage drops below 35% – 70% Us.
- Other voltage variants available upon request.

TIPS & TRICKS

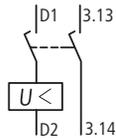
When the undervoltage release is de-energised, accidental contact with the main contacts of the switch is safely prevented during attempts to switch on. Undervoltage release cannot be installed simultaneously with a shunt release or early-make auxiliary contact MC4-XHIV.

VOLTAGE	TYPE	EAN CODE	AVAILABLE	ORDER NO.
24 VAC	MC4-XU24AC	9004840263343		MC496189
24 VDC	MC4-XU24DC	9004840263381		MC496204
208 - 240 VAC	MC4-XU208-240AC	9004840263367		MC496193
380 - 440 VAC	MC4-XU380-440AC	9004840263374		MC496194

UNDervOLTAGE RELEASE WITH TWO EARLY-MAKE AUXILIARY CONTACTS TYPES MC4-XUHIV



MC496221



SCHRACK INFO

- With 2 early-make auxiliary contacts
- For early-make of the undervoltage release in main switch applications and for interlock- and load-shedding circuits
- Installed in breaker
- Other voltage variants available upon request.

TIPS & TRICKS

When the undervoltage release is de-energised, accidental contact with the main contacts of the switch is safely prevented during attempts to switch on. Early-make of auxiliary contacts during switch on and off (20 ms). Undervoltage release cannot be installed simultaneously with a shunt release or early-make auxiliary contact MC4-XHIV.

VOLTAGE	TYPE	EAN CODE	AVAILABLE	ORDER NO.
208 - 240 VAC	MC4-XUHIV208-240AC	9004840263404		MC496221
380 - 440 VAC	MC4-XUHIV380-440AC	9004840263411		MC496222



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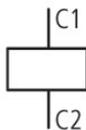
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SHUNT RELEASE TYPES MC4-XA



MC496451



SCHRACK INFO

- Without auxiliary contact
- Switches are tripped by a voltage pulse or by applying uninterrupted voltage
- Other voltage variants available upon request.

TECHNICAL DATA

When the shunt release is de-energised, accidental contact with the main contacts of the switch during attempts to switch on is safely prevented. Shunt release cannot be installed at the same time with undervoltage releases or early-make auxiliary contact MC4-XHIV.

VOLTAGE	TYPE	EAN CODE	AVAILABLE	ORDER NO.
24 VAC/DC	MC4-XA24AC/DC	9004840263428		MC496447
208 - 250 VAC/DC	MC4-XA208-250AC/DC	9004840263466		MC496451



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REMOTE OPERATOR FOR MC4



MC496685

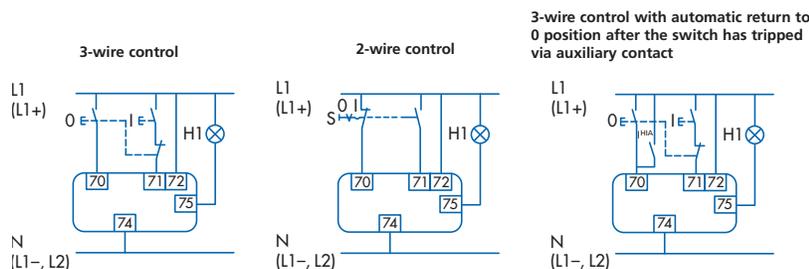
SCHRACK INFO

- Remote operator can be combined with circuit breaker MC and load-break switch MC-N, but not with load-break switch MC-PN.
- Do not switch off switch simultaneously via remote control and release via undervoltage/shunt release.
- 1 auxiliary contact MM-K(CK).. must be installed in circuit breaker (included with remote operator)
- Other voltage variants available upon request.
- For dimensions, see from page 700.

TECHNICAL DATA

- On/Off switching and reset by means of continuous or pulse contact.
- Can be synchronised
- Switching time, ON: ≤ 100 ms
- Local switching by hand possible
- Pause between Off and On: 3 sec.
On command is ignored
- Function of terminal 75:
Ready for operation signal, when cover is closed and not locked.
AC-15: 2 A / 400 V
DC-13: 0.2 A / 220 V

CIRCUIT DIAGRAMS

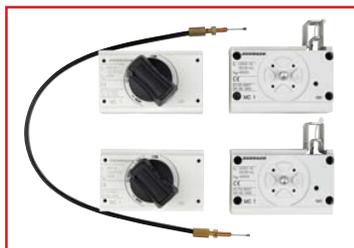


SWITCHING CYCLE



VOLTAGE	TYPE	EAN CODE	AVAILABLE	ORDER NO.
208 - 240 V AC	MC4-XR208-240AC	9004840263626		MC496685

MECHANICAL INTERLOCK FOR (DOOR COUPLING) ROTARY HANDLES FOR MC4



MC491584 + MC191585

SCHRACK INFO

- Rotary handle on switch or door coupling rotary handle additionally required.
- Cannot be combined with door sealing frame
- At least 2 interlocking modules are required to construct a mechanical interlock.
- Order Bowden cable separately
- For dimensions, see from page 700.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Mechanical interlock	MC4-XMV	9004840403251		MC491584
Bowden cable 225 mm	MC XBZ225	9004840403206		MC191585
Bowden cable 600 mm	MC XBZ600	9004840403213		MC191586
Bowden cable 1000 mm	MC XBZ600	9004840403220		MC191587

MECHANICAL INTERLOCK FOR REMOTE OPERATOR MC4-XR



MC494547



MC494547 - mounted

SCHRACK INFO

- For 2 switches of the same or next frame size side by side
- Side-by-side mounting
- Mounted on top of each other, long version
- Contains parts for 2 switches
- Remote operators also required
- For dimensions and maximum switch clearances, see from page 700.

NOTE

Cannot be combined with rotary handles, door coupling rotary handles and early-make auxiliary contacts.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Mechanical interlock for MC3/4	MC3/4-XMVR	9004840520705		MC394546
Mechanical interlock for MC3/4 long version	MC3/4-XMVRL	9004840521092		MC394551
Mechanical interlock for MC4	MC4-XMVR	9004840520309		MC494547
Mechanical interlock for MC4 long version	MC4-XMVRL	9004840521184		MC494552

ROTARY HANDLE DIRECTLY ON SWITCH FOR MC4



MC496608

SCHRACK INFO

- Complete with rotary drive
- Can also be combined with door sealing frame
- For dimensions, see from page 700.

TECHNICAL DATA

Available in the following versions:

Type MC.-XDV

Lockable in position "0" (up to three padlocks), black/grey

Type MC.-XDVR

Lockable in position "0" (up to three padlocks), EMERGENCY STOP red/yellow

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Rotary handle for MC4 lockable, black/grey	MC4-XDV	9004840263503		MC496608
Rotary handle for MC4 lockable, Emergency Stop, red/yellow	MC4-XDVR	9004840263510		MC496610



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DOOR COUPLING ROTARY HANDLES UND MAIN SWITCH KITS FOR MC4



MC494614 - Rotary drive



MC494614 - Coupling part



MC496608

SCHRACK INFO

- Complete including rotary drive and coupling parts
- Degree of protection IP66
- Rotary handle can be rotated 90° for switches mounted horizontally
- Cannot be defeated in the locked OFF and ON positions
- Can be modified when in the unlocked ON position, can be defeated from the outside with a screwdriver
- Door can be opened in OFF
- External warning plate/additional plate can be clipped on
- For dimensions, see from page 700.

NOTE

- Order extension shaft separately!

TECHNICAL DATA

Available in the following versions:

Type MC.-XTVD

Lockable in position "0" on handle with up to three padlocks, with door interlock, black/grey

Type MC.-XTVDV

Lockable in position "0" on handle and switch with up to three padlocks, with door interlock, black/grey

Type MC.-XTVDVR

Lockable in position "0" on handle and switch with up to three padlocks, with door interlock, EMERGENCY STOP red/yellow

Main switch kit consisting of:

- Door coupling rotary handle + rotary drive XTVD/XTVDR
- Extension shaft XV4
- External warning plate
- Lightning arrow

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
DOOR COUPLING ROTARY HANDLES				
For MC4 with door interlock, lockable, black/grey	MC4-XTVD	9004840263534		MC496614
For MC4 with door interlock, lockable, "0", "1", black/grey	MC4-XTVDV	9004840263541		MC496616
For MC4 with door interlock, lockable, Emergency Stop, red/yellow	MC4-XTVDVR	9004840263558		MC496618
MAIN SWITCH KITS				
For MC4 lockable, black/grey	MC4-XHB	9004840405026		MC491779
For MC4 lockable, Emergency Stop, red/yellow	MC4-XHBR	9004840405033		MC491842

EXTENSION SHAFT FOR MC4



MC391234

SCHRACK INFO

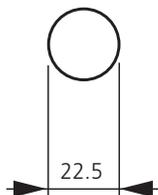
- For maximum cabinet depths of 400 or 600 mm
- Can be cut to required length
- For dimensions, see from page 700.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Extension shaft for MC4, max. 400 mm	MC3/4-XV4	9004840263060		MC391234
Extension shaft for MC4, max. 600 mm	MC3/4-XV6	9004840262971		MC390193

TUNNEL TERMINAL FOR MC4



MC496836



SCHRACK INFO

- Installation outside switch housing
- Contains parts for one switch side located at top or bottom for 3 pole switches
- Comes with terminal for control circuit cabling as standard for copper conductors 1 x (0.75 to 2.5 mm²), 2 x (0.75 to 1.5 mm²)
- Terminal capacities:
Cu/Al cable 1 x (50 to 240 mm²) to 4 x (50 to 240 mm²)
- For dimensions, see from page 700.

TECHNICAL DATA

- For Cu and Al cables, max. 1400 A
- Including cover
- Stranded round conductor / stranded sector-shaped conductor

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Tunnel terminal 4 x 240 mm ² for MC4 3-pole	MC4-X kA	9004840263817		MC496836
Tunnel terminal 4 x 240 mm ² for MC4 4-pole	MC4-4-X kA	9004840387384		MC496837

RIBBON CABLE FOR MC4



MC496829

SCHRACK INFO

- $I_n \leq 1100$ A
- When mounting switch on conductive mounting plates you must use cover plate MC4(-4)-XKSA
- Use cover plate for phase isolator plates
- Contains parts for one switch side, top or bottom
- For dimensions, see from page 700.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Flat conductor terminal for MC4/MC4-N, 3-pole	MC4-XKB	9004840387360		MC496829
Flat conductor terminal for MC4-4/MC4-N-4, 4-pole	MC4-4-XKB	9004840387377		MC496831

■ CABLE LUG FOR MC4



MC390040

■ SCHRACK INFO

- Special cable lug in slimline design
- The cable lugs must be insulated when using without a cover plate.
- For dimensions, see from page 700.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Cable lug 185 mm ² , for MC4	MC3/4-XKS185	9004840263886		MC390040
Cable lug 240 mm ² , for MC4	MC3/4-XKS240	9004840262667		MC390041

■ REAR CONNECTION FOR MC4



MC496842

■ SCHRACK INFO

- Contains parts for one switch side, top or bottom
- Can be mounted additionally:
module plate MC4...-XKM... or connection width extension MC4-...-XKV...
- Max. terminal capacities 1250 A:
Cu cable lugs 1 x (120 to 185 mm²), 2 x (95 to 185 mm²), 4 x (35 to 185 mm²)
Al cable lugs 1 x 185 mm², 2 x (70 to 185 mm²), 4 x (50 to 185 mm²)
- For dimensions, see from page 700.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Rear connection, 3-pole for MC4	MC4-XKR	9004840263824		MC496842

■ PHASE ISOLATOR FOR MC4



MC496873

■ SCHRACK INFO

- Contains parts for one switch side located at top or bottom for 3- or 4-pole switches
- Are included in the connection width extension MC4(-4)-XKV...
- Insulation protection where cable lugs, busbars or flat conductor are connected.
- Cannot be combined with tunnel terminal, rear connection
- For dimensions, see from page 700.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Phase isolator for MC4 (2 pcs.)	MC4-XKP	9004840560404		MC496873
Phase isolator for MC4-4 (3 pcs.)	MC4-4-XKP	9004840560411		MC496874

MODULE PLATE FOR MC4



MC496814



MC496820



MC494473

SCHRACK INFO

- For M10 screws, can be bored for M12 screws
- Use special cable lugs in slimline design
- Can be mounted to switch with screw connection
- Contains parts for one switch side, top or bottom
- Insulation through cover plate MC4(-4)-XKSA or phase isolator MC4(-4)-XKP necessary
- For dimensions, see from page 700.

TECHNICAL DATA

- Terminal capacities, 1 bore: Cu cable lugs 1 x (120 to 300 mm²), 2 x (95 up to 300 mm²)
- Terminal capacities, 2 bore: Cu cable lugs 2 x (95 to 185 mm²), 4 x (35 up to 185 mm²)
- Connection width extension: 2 x (95 to 300 mm²)

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
3-POLE				
Module plate 1-hole for MC4/MC4-N, I _n ≤ 1250 A	MC4-XKM1	9004840387308		MC496814
Module plate 2-hole for MC4/MC4-N, I _n ≤ 1400 A	MC4-XKM2	9004840387315		MC496820
Connection extension MC4 3-pole 1600 A	MC4-XKM2S-1600	9004840403336		MC494473
4-POLE				
Module plate 1-hole for MC4-4/MC4-N-4, I _n ≤ 800 A	MC4-4-XKM1	9004840387322		MC496815
Module plate 2-hole for MC4-4/MC4-N-4, I _n ≤ 1000 A	MC4-4-XKM2	9004840387339		MC496821
Connection extension MC4 4-pole 1600 A	MC4-4-XKM2S-1600	9004840403343		MC494474



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CONNECTION WIDTH EXTENSION FOR MC4



MC496826

SCHRACK INFO

- Contains parts for one switch side located at top or bottom for 3- or 4-pole switches including phase isolator.
- 5x bore for up to 6 cable lugs per phase
- Can be mounted to switch with screw connection
- Phase isolator included
- 4 mm bore holes fitted for control circuit terminal
- Terminal capacities: Cu cable lugs 4 x 300 mm², 6 x (95 to 240 mm²)
- For dimensions, see from page 700.

TECHNICAL DATA

Pole centre distance on MC4 (-4)-XKV95:	95 mm
Installation possible for current transformer:	up to width 130 mm at rail width of 80 mm
Pole centre distance on MC4 XKV110:	107.5 mm
Installation possible for current transformer:	up to width 135 mm at rail width of 80 mm
Pole centre distance on MC4-4-XKV120:	122 mm
Installation possible for current transformer:	up to width 164 mm at rail width of 80 mm

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Connection width extension MC4 3-pole 1600 A	MC4-XKV95	9004840387346		MC496826
Connection width extension MC4 4-pole 1600 A	MC4-4-XKV95	9004840387353		MC496827
Connection width extension MC4 3-pole 1600 A long version	MC4-XKV110	9004840521146		MC491593
Connection width extension MC4 4-pole 1600 A long version	MC4-4-XKV120	9004840521153		MC491594

TERMINAL COVER FOR MC4



MC496846

SCHRACK INFO

- Protection against accidental contact where cable lugs, rails are connected or tunnel terminals are used
- Contains parts for one switch side located at top or bottom for 3- or 4-pole switches
- Degree of protection IP4X front, side and rear, IP1X on the connection side when using insulated conductor material
- Cover plate already comes with tunnel terminals
- For dimensions, see from page 700.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Terminal cover for MC4, 3-pole	MC4-XKSA	9004840263831		MC496846
Terminal cover for MC4, 4-pole	MC4-4-XKSA	9004840387407		MC496847



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DOOR SEALING FRAME FOR MC4



MC494646

SCHRACK INFO

- For toggle levers, rotary handles with rotary drive and remote operator
- Degree of protection IP40
- For rectangular cut-out on doors and enclosures with material thicknesses of 1.5 – 5 mm
- External warning plate / additional plate (optional) clipped
- For dimensions, see from page 700.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Door sealing frame for MC4	MC4-XBR	9004840403329		MC494646

SPACERS FOR MC4



MC390211

SCHRACK INFO

- Enables fast and low-priced adjustment of different frame sizes with/without rotary handle or remote control to identical front depths
- Grid depth 17.5 mm, thread M5
- One set contains 4 x spacers
- 4 fastening screws included per switch
- For dimensions, see from page 700.

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Spacers for MC4	MC3/4-XAB	9004840263015		MC390211



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