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



- System and line protection
- 3 and 4 pole versions
- Adjustable overload release Ir: 0,8 1 x In (factory setting 0,8 x In)
- Adjustable short-circuit release Ii: 8 10 x In (factory setting 8 x In)
- Breaking capacity 36 / 50 / 150 kA at 415 V 50/60 Hz
- Screw terminals as standard, box terminals as accessories
- Rated uninterrupted current = Rated current

RATED CURRENT/	SETTING OVERLOAD-	RANGE SHORT CIRCUIT-	TYPE	00050 110
	OVERLOAD-	SHORT CIRCUIT-	TVDE	ODDED NO
DDEAKING CADACITY		0.1011 0.110011	ITE	ORDER NO.
BREAKING CAPACITY	RELEASE (A)	RELEASE (A)		
3 POLE (COMFORT BREAKING CAPACITY) 36 kA				
320 A/36 kA	250320	19203200	MC3C-A320	MC332431
400 A/36 kA	320400	24004000	MC3C-A400	MC340431
500 A/36 kA	400500	30005000	MC3C-A500	MC350431
3 POLE (NORMAL BREAKING CAPACITY) 50 kA				
320 A/50 kA	250320	19203200	MC3N-A320	MC332231
400 A/50 kA	320400	24004000	MC3N-A400	MC340231
500 A/50 kA	400500	30005000	MC3N-A500	MC350231
3 POLE (HIGH BREAKING CAPACITY) 150 kA 320 A/150 kA	250320	19203200	MC3H-A320	MC332331
400 A/150 kA	320400	24004000	MC3H-A400	MC340331
500 A/150 kA	400500	30005000	MC3H-A500	MC350331
4 POLE (NORMAL BREAKING CAPACITY) 50 kA				
320 A/50 kA	250320	19203200	MC3N-4-A320	MC332241
400 A/50 kA	320400	24004000	MC3N-4-A400	MC340241
500 A/50 kA	400500	30005000	MC3N-4-A500	MC350241
4 POLE (HIGH BREAKING CAPACITY) 150 kA				
	0.50 000	19203200	MC3H-4-A320	MC332341
320 A/150 kA	250320	19203200	MC311 4 A320	
320 A/150 kA 400 A/150 kA	320400	24004000	MC3H-4-A400	MC340341



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



- System and line protection
- Selective and generator protection
- 3 and 4 pole versions
- RMS value and "thermal memory"
- Adjustable overload release Ir: 0,5 1 x In (factory setting 0,8 x In)
- Adjustable short-circuit release Ii: 2 12 x In (factory setting 6 x In) at MC3...-AE250/400: 2 11 x In (factory setting 6 x In) at MC3...-AE630: 2 8 x In (factory setting 6 x In)
- Breaking capacity 50 / 150 kA at 415 V 50/60 Hz
- Screw terminals as standard, box terminals as accessory
- Rated uninterrupted current = Rated current

	SETTING	RANGE		
rated current/	OVERLOAD-	SHORT CIRCUIT-	TYPE	ORDER NO.
Breaking Capacity	RELEASE (A)	RELEASE (A)		
3 POLE (NORMAL BREAKING CAPACITY) 50 kA				
250 A/50 kA	125250	5002750	MC3N-AE250	MC325232
400 A/50 kA	200400	8004400	MC3N-AE400	MC340232
630 A/50 kA	315630	12605040	MC3N-AE630	MC363232
3 POLE (HIGH BREAKING CAPACITY) 150 kA				
250 A/150 kA	125250	5002750	MC3H-AE250	MC325332
400 A/150 kA	200400	8004400	MC3H-AE400	MC340332
630 A/150 kA	315630	12605040	MC3H-AE630	MC363332
4 POLE (NORMAL BREAKING CAPACITY) 50 kA				
250 A/50 kA	125250	5002750	MC3N-4-AE250	MC325242
400 A/50 kA	200400	8004400	MC3N-4-AE230	MC340242
630 A/50 kA	315630	12605040	MC3N-4-AE400 MC3N-4-AE630	MC363242
630 A/ 30 KA	313630	12005040	MC3N-4-AE630	MC363242
4 POLE (HIGH BREAKING CAPACITY) 150 kA				
250 A/150 kA	125250	5002750	MC3H-4-AE250	MC325342
400 A/150 kA	200400	8004400	MC3H-4-AE400	MC340342
630 A/150 kA	315630	12605040	MC3H-4-AE630	MC363342



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



- System and line protection
- Selective and generator protection
- 3 and 4 pole versions
- RMS value and "thermal memory"
- Adjustable overload release I_r: 0,5 − 1 x I_n (factory setting 0,8 x I_n)
- \bullet Adjustable time delay setting to overcome current spikes tr: 2 20 s at 6 x lr as well as infinity
- Adjustable delayed short-circuit releases I_{sd}: 2 10 x I_r (factory setting 6 x I_r)
 MC3...-4-VE630: 2 7 x I_r (factory setting 6 x I_r)
- Adjustable delay time t_{sd}: Levels:
 0, 20, 60, 100, 200, 300, 500, 750,1000 ms (factory setting 0)
- Adjustable not-delayed short-circuit release I_i: 2 12 x I_n (factory setting 12 x I_n)
 MC3...-VE250/400: 2 11x I_n (factory setting 6 x I_n)
 MC3...-VE630: 2 8x I_n (factory setting 6 x I_n)
- Switchable i²t constant function (factory setting OFF)
- Screw terminals as standard, box terminals as accessories
- Rated uninterrupted current = Rated current

		SETTING RANG	Æ		
RATED CURRENT/	OVERLOAD-	SHORT-CIRCUIT	RELEASE	TYPE	ORDER NO.
BREAKING CAPACITY	RELEASE (A)	NOT DELAYED (A)) DELAYED (A)		
3 POLE (NORMAL BREAKING CAPACITY) 50 kA					
250 A/50 kA	125250	5002750	2502500	MC3N-VE250	MC325233
400 A/50 kA	200400	8004400	4004000	MC3N-VE400	MC340233
630 A/50 kA	315630	12605040	4724410	MC3N-VE630	MC363233
3 POLE (HIGH BREAKING CAPACITY) 150 kA					
250 A/150 kA	125250	5002750	2502500	MC3H-VE250	MC325333
400 A/150 kA	200400	8004400	4004000	MC3H-VE400	MC340333
630 A/150 kA	315630	12605040	4724410	MC3H-VE630	MC363333
4 POLE (NORMAL BREAKING CAPACITY) 50 kA					
400 A/50 kA	200400	8004400	4004000	MC3N-4-VE400	MC340243
630 A/50 kA	315630	12605040	4724410	MC3N-4-VE630	MC363243
4 POLE (HIGH BREAKING CAPACITY) 150 kA					
400 A/150 kA	200400	8004400	4004000	MC3N-4-VE400	MC340343
630 A/150 kA	315630	12605040	4724410	MC3H-4-VE630	MC363343



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



- Adjustable overload release Ir: 0,5 1 x In (factory setting 0,8 x In)
- Adjustable short-circuit release Ii: 2 14 x In (factory setting 12 x In)
- Adjustable time delay setting to overcome current spikes t_i : 2 20 s at 6 x l_r , as well as infinity (without overload release), (factory setting 10 s)
- RMS value and "thermal memory"
- Phase sensitivity
- Screw terminals as standard, box terminals as accessories
- Meets IEC/EN 60947-4 and IEC/EN 60947-2
- Circuit breakers satisfy all requirements of Ultilization category AC3 at 400V AC

			SETTING I	RANGE		
NOMINAL CURRENT/	POWER RATING A	C3 CURRENT AC3	OVERLOAD-	SHORT CIRCUIT-	TYPE	ORDER NO.
BREAKING CAPACITY	kW	Α	RELEASE (A)	RELEASE (A)		
3 POLE (NORMAL BREA	AKING CAPACITY) 50) kA				
220 A/50 kA	110	196	110220	2203080	MC3N-ME220	MC322237
350 A/50 kA	200	349	175350	3504900	MC3N-ME350	MC335237
450 A/50 kA	250	437	225450	4506300	MC3N-ME450	MC345237
3 POLE (HIGH BREAKIN 220 A/150 kA	NG CAPACITY) 150 k	A 196	110220	2203080	MC3H-ME220	MC322337
350 A/150 kA	200	349	175350	3504900	MC3H-ME350	MC335337
					MC3H-ME450	MC345337



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



- 3- and 4-pole version
- Rated uninterrupted current up to 630A
- Switch disconnector type MC3-PN, 2 switch positions 0/I, cannot be tripped remotely
- Switch disconnector type MC3-N, with trip setting "0"; "+"; "1", can be tripped remotely with undervoltage/shunt release, trip-indicating auxiliary contacts possible
- For type MC...-N switch disconnectors, undervoltage/shunt releases and trip-indicating auxiliary contacts can also be used.
- Type MC3-N... can also be combined with remote control MC-XR...
- Screw terminals as standard, box terminals as accessories
- Remote-trip MC3-N can also be combined with remote operator
- Properties of main switches including positive drive to IEC/EN 60204 and VDE 0113
- Isolating characteristics according to IEC/EN 60947-3 and VDE 0660. Protection against accidental contact accord. to VDE 0160 Part 100
- Rated uninterrupted current = Rated current
- Rated short-circuit breaking capacity values: I_{cm} 25kA
- Rated short-time withstand current: I_{cw} 12kA

RATED UNINTERRUPTED CURRENT	MAX. BACK-UP FUSE (gL)	TYPE	ORDER NO.
	FOR SWITCH DISCONNECTOR (A	.gL)	
3 POLE CANNOT BE TRIPPED REMOTELY			
400 A	630	MC3-PN-400	MC340034
630 A	630	MC3-PN-630	MC363034
4 POLE CANNOT BE TRIPPED REMOTELY			
400 A	630	MC3-PN-4-400	MC340044
630 A/630 A	630	MC3-PN-4-630	MC363044
3 POLE CAN BE TRIPPED REMOTELY			
400 A	630	MC3-N-400	MC340035
630 A	630	MC3-N-630	MC363035
4 POLE CAN BE TRIPPED REMOTELY			
400 A	630	MC3-N-4-400	MC340045
630 A	630	MC3-N-4-630	MC363045



SOCKET BASE AND WITHDRAWABLE MODULE FOR MC3





■ SCHRACK INFO

- 3- and 4-pole version
- For circuit breaker MC3 and switch disconnector MC3-N

■ TECHNICAL DATA

- Withdrawable unit complete with control circuit plug unit
- I_0 max. at 20° C -605 A, I_0 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 signaling. Either one N/C or N/O 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 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, available pre-assembled.

DESCRIPTION	TYPE	ORDER NO.
SOCKET BASE		
Socket base, 3 pole	MC3-XAVS	MC396711
Socket base, 4 pole	MC3-4-XAVS	MC396712

WITHDRAWABLE MODULE

Withdrawable module, 3 pole, supplied with switch, add an A to end of switch part number

Withdrawable module, 4 pole, supplied with switch, add an A to end of switch part number

STANDARD AUXILIARY CONTACT / TRIP-INDICATING AUXILIARY CONTACT TYPE M22







■ SCHRACK INFO

- Breaking 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 DC13: 0,3 A / 220 VDC

TIPS & TRICKS

The trip-indicating auxiliary contacts is the same contact as the standard auxiliary contact. It derives its function from where it is installed (alarm contact on left).

Maximum component installation with auxillary contacts: 1 x Standard auxiliary contact (HIN) M22-K.

1 x Trip-indicating contact (HIA) M22-CK.

DESCRIPTION	ТҮРЕ	ORDER NO.
1 NO contact with screw terminals	M22-K10	MM216376
1 NC contact with screw terminals	M22-K01	MM216378
2 NO contacts with cage clamp terminals	M22-CK20	MM107898
2 NC contacts with cage clamp terminals	M22-CK02	MM107899
1 NO + 1 NC contact with cage clamp terminals	M22-CK11	MM107940



EARLY-MAKE AUXILIARY CONTACT TYPE MC3-XHIV





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

DC13: 0,3 A / 220 VDC

TIPS & TRICKS

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

DESCRIPTION	TYPE	ORDER NO.
Early-make auxiliary contact, 2 N/O	MC2/3-XHIV	MC299430

UNDERVOLTAGE RELEASE TYPES MC3-XU





■ SCHRACK INFO

- For use in Emergency stop devices in connection with Emergency stop huttons
- Installed in breaker
- Without auxiliary contact
- Not-delayed breaking of circuit breaker MC/ switch disconnector MC-N when the control voltage drops below 35 % - 70% Us.

TIPS & TRICKS

When the undervoltage release is de-energized, accidental contact with the main contacts of the switch is safely prevented during attempts to switch on. Undervoltage releases cannot be installed at the same time as operating current releases or early-make auxiliary contact MC2-XHIV.

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

Other voltage variants available upon request.

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





SCHRACK INFO

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

TIPS & TRICKS

When the undervoltage release is de-energized, accidental contact with the main contacts of the switch is safely prevented during attempts to switch on. Early-make of auxillary contacts during switch on and off (20ms). Undervoltage releases cannot be installed at the same time as operating current releases or early-make auxiliary contact MC2-XHIV.

VOLTAGE	TYPE	ORDER NO.
208 - 240 VAC	MC2/3-XUHIV230V	MC299591
380 - 440 VAC	MC2/3-XUHIV400V	MC299594

Other voltage variants available upon request.



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







SCHRACK INFO

 Voltage drops less than 0,07–16 s do not cause MC circuit breakers or N switch disconnectors to trip.

■ TECHNICAL DATA

- Time-delay adjustable between 70 ms 4 s
- With additional external capacitor: $30.000~\mu F \ge 35~V~to~8~s,~90.000~\mu F \ge 35~V~to~16~s$
- 1 x special release MC2-XUV required
- Cannot be installed simultaneously with early-make auxiliary contact MC2-XHIV... or shunt release MC2-XA....
- 30.000 μ F \geq 35 V to 8 s, 90.000 μ F \geq 35 V to 16 s Time-delay device for separate mounting (Fastening: DIN rail or screws)
 - For other operating voltages, please use a control transformer

DESCRIPTION	TYPE	ORDER NO.
Time-delay unit	MC-UVU	MC190154
Special undervoltage release for time-delay unit MC2	MC2/3-XUV	MC299527

Other voltage variants available upon request.

SHUNT RELEASE TYPES MC2-XA





SCHRACK INFO

- Without auxiliary contact
- Switches are tripped by a voltage pulse or by the application of uninterrupted voltage

NOTES

When the shunt release is energized, 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	ТҮРЕ	ORDER NO.
24 V AC/DC	MC2/3-XA24AC/DC	MC299754
110 VAC/DC	MC2/3-XA110AC/DC	MC299760
208 - 250 V AC/DC	MC2/3-XA230AC/DC	MC299763

Other voltage variants available upon request.



REMOTE OPERATOR FOR MC3



SCHRACK INFO

- Remote operator can be combined with circuit breaker MC and switch disconnector MC-N, but not with switch disconnector MC-PN.
- Do not deactivate simultaneously via remote control and trip via undervoltage/operating current release.
- 1 standard auxiliary contact M22 necessary (included).

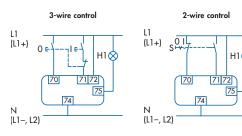
■ TECHNICAL DATA

- On/Off breaking and reset by means of 2-wire or 3-wire control.
- Can be synchronized
- Breaking time On: ≤ 80 ms
- Local manual breaking possible
- Pause between Off and On: 3 sec.
 On command is ignored

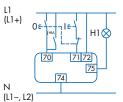
 Function of Terminal 75:
 Ready for operation signal, when cover is closed and not locked.

AC-15: 2 A/400 V DC-13: 0,2 A/220 V

■ CIRCUIT DIAGRAMS



3-wire control with automatic return to 0 position after the switch has tripped via auxiliary contact



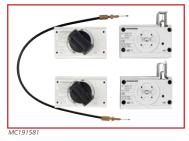
BREAKING CYCLE



VOLTAGE	ТҮРЕ	ORDER NO.
208 - 240 V AC	MC3-XR208-240AC	MC399850
Extra cover for 4-pole switches	MC3-XAVPR	MC396678

Other voltage variants available upon request.

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



SCHRACK INFO

Rotary handle on switch or door coupling rotary handle additionally required.Cannot be combined with remote operator or door frame.

At least 2 interlocking modules are required to construct a mechanical interlocking circuit. See Page 142 for possible combinations and variations in interlocking circuits. Bowden cable to be ordered separately.

DESCRIPTION	ТҮРЕ	ORDER NO.
Mechanical interlock	MC3-XMV	MC391583
Bowden cable 225 mm	MC-XBZ225	MC191585
Bowden cable 600 mm	MC-XBZ600	MC191586
Bowden cable 1000 mm	MC-XBZ1000	MC191587



■ MECHANICAL INTERLOCK FOR REMOTE OPERATOR FOR MC3





■ SCHRACK INFO

- For 2 switches of 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 operator also required
- For maximum breaking distance, see Page 143

NOTES

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

DESCRIPTION	ТҮРЕ	ORDER NO.
Mechanical interlock for MC2/3	MC2/3-XMVR	MC294544
Mechanical interlock for MC2/3, long version	MC2/3-XMVRL	MC294549
Mechanical interlock for MC3	MC3-XMVR	MC394545
Mechanical interlock for MC3 long version	MC3-XMVRL	MC394550
Mechanical interlock for MC3/4	MC3/4-XMVR	MC394546
Mechanical interlock for MC3/4 long version	MC3/4-XMVRL	MC394551

ROTARY HANDLE DIRECTLY ON SWITCH FOR MC3



SCHRACK INFO

- Complete with rotary drive
- Can also be combined with door frame

TECHNICAL DATA

Available in the following versions:

Type MC.-XDV

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

Type MC.-XDVR

Lockable in the "0" position (up to three padlocks), Emergency stop red/yellow

DESCRIPTION	TYPE	ORDER NO.
Lockable rotary handle for MC3, black/grey	MC3-XDV	MC390129
Lockable rotary handle for MC3, Emergency stop red/yellow	MC3-XDVR	MC390140

■ MAIN-SWITCH-SET FOR MC3

■ SCHRACK INFO

Set includes:

- Door coupling rotary handle (page 54)
- Extension shaft -XV4 (page 54)
- Frontside warning plate
- Sticker with warning symbol "lightning"

DESCRIPTION	TYPE	ORDER NO.
Main-switch-set for MC3 with door interlock, black/grey	MC3-XHB	MC396628
Main-switch-set for MC3 with door interlock, Emergency stop red/yellow	MC3-XHBR	MC396634



DOOR COUPLING ROTARY HANDLE FOR MC3







MC390170

MC390170

■ SCHRACK INFO

- Complete unit includes rotary drive and coupling parts
- Degree of Protection IP66
- Rotary handle can be rotated 90° for horizontally-mounted switches
- 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/designation plate can be clipped on

NOTES

• Order extension shaft separately!

■ TECHNICAL DATA

Available in the following versions:

Type MC.-XTVD

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

Type MC.-XTVDV

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

Type MC.-XTVDVR

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

DESCRIPTION	TYPE	ORDER NO.
Rotary handle for MC3 with door interlock, lockable, black/grey	MC3-XTVD	MC390170
Door coupling rotary handle for MC3 with door interlock, lockable, "0", "1", black/grey	MC3-XTVDV	MC390176
Door coupling rotary handle for MC3 with door interlock, lockable, Emergency stop red/yellow	MC3-XTVDVR	MC390182

EXTENSION SHAFT FOR MC3



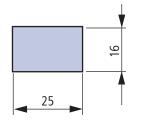
- for maximum cabinet depths of 400 or 600 mm
- Can be cut to required length

DESCRIPTION	CABINET DEPTH	ТҮРЕ	ORDER NO.
Extension shaft for MC3	max. 400 mm	MC3/4-XV4	MC391234
Extension shaft for MC3	max. 600 mm	MC3/4-XV6	MC390193



BOX TERMINALS FOR MC3





SCHRACK INFO

- Installed within the switch housing
- If $U_e \ge 525V$ AC, use terminal cover MC3(-4)-XKSA
- Conversion kit for switches with screw connection
- Contains parts for one switch side
- Terminal capacities:

Copper lines/cables 500A: 1 x 35 - 240 mm²

2 x 16 - 120 mm²

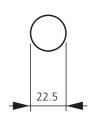
Copper strip 630A: 10 x 24 x 1 + 5 x 24 x 1 or (2x) 8 x 24 x 1

DESCRIPTION	TYPE	ORDER NO.
Box terminal (contains 3 pcs.) for MC3	MC3-XKC	MC390042
Box terminal (contains 4 pcs.) for MC3-4	MC3-4-XKC	MC396783

TUNNEL TERMINAL FOR MC3







IVIC391461

■ SCHRACK INFO

- Contains parts for one switch side located at top or bottom for 3 or 4-pole switches
- Comes with terminal for control circuit cabling as standard for 1 x 0,75 2,5 mm² or 2 x 0,75 1,5 mm² copper conductors
- Terminal capacities:

XKA1 max. 350A: Cu/Al cable 1 x 16 - 185 mm^{2*}

XKA2 max. 630A: Cu/Al-cable 2 x 50 - 240 mm²

(* depending on cable manufacturer up to 240 mm² can be connected)

- Installed outside switch housing
- Terminal cover MC3(-4)-XKSA included

TECHNICAL DATA

- For Cu- and AI cables
- Terminal cover included
- Stranded round conductor / stranded sector-shaped conductor

DESCRIPTION	TYPE	ORDER NO.
Tunnel terminal 185 mm², 3 pole for MC3	MC3-XKA1	MC391459
Tunnel terminal 2 x 240 mm², 3-pole for MC3	MC3-XKA2	MC391461
Tunnel terminal 185 mm², 4 pole for MC3-4	MC3-4-XKA1	MC391460
Tunnel terminal 2 x 240 mm², 4-pole for MC3-4	MC3-4-XKA2	MC391462

CABLE LUG FOR MC3



■ SCHRACK INFO

- Special cable lug in slimline design
- Cable lugs must be insulated when using without a cover plate.

 DESCRIPTION
 TYPE
 ORDER NO.

 Cable lug 185 mm², for MC3
 MC3/4-XKS185
 MC390040

 Cable lug 240 mm², for MC3
 MC3/4-XKS240
 MC390041

REAR CONNECTION FOR MC3



SCHRACK INFO

- Contains parts for one switch side located at top or bottom for 3- or 4-pole switches
- Terminal capacities: Copper cable 8 x 16 240 mm²

DESCRIPTION	TYPE	ORDER NO.
Rear connection, 3 pole for MC3	MC3-XKR	MC396792
Rear connection, 4 pole for MC3-4	MC3-4-XKR	MC396795

■ CONNECTION WIDTH EXTENSION FOR MC3

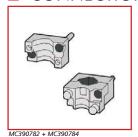


- Contains parts for one switch side incl. phase seperator
- Central holes, max. 2 cable lugs per phase
- Distance between pole centers 70 mm
- Terminal capacities: Copper cable lugs 2 x 300 mm²
 Copper rails (2x) 10 x 50

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



CONNECTION TERMINALS FOR CONNECTION WIDTH EXTENSION MC3



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
- Comes with terminal for control circuit cabling as standard for 1 x 0,75 2,5 mm 2 or 2 x 0,75 1,5 mm 2

Cu conductors

Terminal capacities: Copper cable 2 x 120 – 300 mm²
 Cu strip (2x) 11 x 21 x 1 mm

DESCRIPTION	TYPE	ORDER NO.
3 POLE		
Connection terminals for connection width extension, 500 A for cable	MC3-XK300	MC390782
Connection terminals for connection width extension, 630 A for strip	MC3-XK22X21	MC390784

4 POLE

Connection terminals for connection width extension, 500 A for cable	MC3-4-XK300	MC390783
Connection terminals for connection width extension, 630 A for strip	MC3-4-XK22X21	MC390785

■ PHASE SEPERATOR PLATE FOR MC3



■ SCHRACK INFO

- Contains parts for one switch side located at top or bottom for 3- or 4-pole switches
- Supplied with the connection width extension
- Insulation protection where cable lugs, busbars or flat conductor are connected.
- Cannot be combined with tunnel terminal, rear-side connection

DESCRIPTION	TYPE	ORDER NO.
Phase seperator plate for MC3	MC3-XKP	MC390512
Phase seperator plate for MC3-4	MC3-4-XKP	MC390513

■ CONTROL CIRCUIT TERMINAL FOR MC3



- Contains parts for two terminals located at top or bottom for 3/4 pole switches
- Included with tunnel terminal
- Terminal capacities: Screw connection 1 x 0,75 2,5 mm², 2 x 0,75 1,5 mm²

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DESCRIPTION	TYPE	ORDER NO.
Control circuit terminal for box terminal MC3	MC3/4-XSTK	MC196739
Control circuit terminal for screw connection MC3	MC3/4-XSTS	MC396797

▼ TERMINAL COVER FOR MC3



SCHRACK INFO

- Protection against accidental contact when using cable lugs, rails or tunnel terminals
- 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 included with tunnel terminals

DESCRIPTION	TYPE	ORDER NO.
Terminal cover, 3 pole for MC3	MC3-XKSA	MC390045
Terminal cover, 4 pole for MC3-4	MC3-4-XKSA	MC396801

■ IP2X FINGER PROTECTION FOR DIRECT-MOUNTED MC3 SWITCHES





■ SCHRACK INFO

- Increases the protection against accidental contact to IP2X
- Protects when reaching into the cable connection area when cables are connected in box terminal
- For 2 conductors, maximum cross-section 70 mm²
- MC3-XIPA and MC3-4-XIPA only in combination with cover plate

DESCRIPTION	ТҮРЕ	ORDER NO.
FOR BOX TERMINAL		
Finger protection, 3 pole for MC3	MC3-XIPK	MC396804
Finger protection, 4 pole for MC3-4	MC3-4-XIPK	MC396805

Finger protection, 3 pole for MC3 MC3-XIPA MC396808 Finger protection, 4 pole for MC3-4 MC396809



INSULATED ENCLOSURE XCI



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

■ TECHNICAL DATA

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

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

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

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

Available in the following versions:

Standard, black/grey

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

DESCRIPTION	MAX. RATED UNINTERRUPTED CURRENT	TYPE	ORDER NO.
STANDARD, BLACK/GREY			
Insulated enclosure for MC3(-4)	≤ 400 A	MC3-XCI48-TVD	MC391525

FOR EMERGENCY STOP, RED/YELLOW

Insulated enclosure for MC3(-4) ≤ 400 A MC3-XCI48-TVI	MC391530
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ADDITIONAL INSULATED TERMINALS FOR MC3



- For looping through the neutral and earth conductor
- 1 pole

DESCRIPTION	TERMINAL CAPACITY	TYPE	ORDER NO.
Additional insulated terminal 250 A	stranded, 1 x (35-150mm²), 2 x (16-70mm²)	K150/1/BR	MC294709
Additional insulated terminals 400 A	stranded, 1 x (50-240mm²), 2 x (25-120mm²)	K240/1/BR	MC397082
Additional insulated terminals 630 A	stranded, 1 x (240 - 300mm²), 2 x (50 - 240mm²)	K2x240/1/BR	MC399455



DEVICE ADAPTERS FOR CIRCUIT-BREAKERS AND SWITCH-DISCONNECTORS FOR 60 mm MC3 BUSBAR SYSTEM



■ SCHRACK INFO

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

■ TECHNICAL DATA

MC 3 up to 630 A:

- Connection to system from top
- For component adapter MC3-XKR13 with rear connection, cover plate needed

DESCRIPTION	TYPE	ORDER NO.
60 mm busbar adapter 550 A, 3 pole for MC3	32170	MC391700
60 mm busbar adapter 550 A, 4 pole for MC3	32581	upon request
Cover plate for busbar adapter, 3 pole	MC3-XKR13	MC391668

DOOR SEALING FRAME FOR MC3



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/designation plate can be clipped on

DESCRIPTION	TYPE	ORDER NO.
Door sealing frame for MC3	MC3-XBR	MC394645

■ TOGGLE LEVER LOCKING DEVICE FOR MC3



- Off position lockable with up to 3 padlocks (hasp thickness 4 8 mm)
- Cannot be combined with Insulating surround

DESCRIPTION	TYPE	ORDER NO.
Toggle lever locking device for MC3	MC2/3-XKAV	MC290201



MC - FRAME SIZE 3 / UP TO 630A

■ SPACERS FOR MC3



- Enables fast and low-priced adjustment of a variety frame sizes with/without rotary handle or remote operator same front depth
- Grid depth 17,5 mm, thread M5
- Each set contains 4 x spacers
- 4 fastening screws included per switch

DESCRIPTION	TYPE	ORDER NO.
Spacers for MC3	MC3/4-XAB	MC390211



