Product Range Catalogue | 2006

Switching, protection, communication – the new NZM1-4 circuit-breaker series up to 1600 A

xEnergy

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NZM circuit-breaker

IZM circuit-breaker

Switchboard systems

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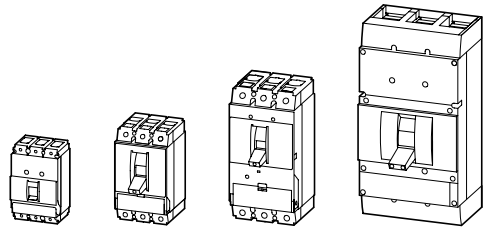

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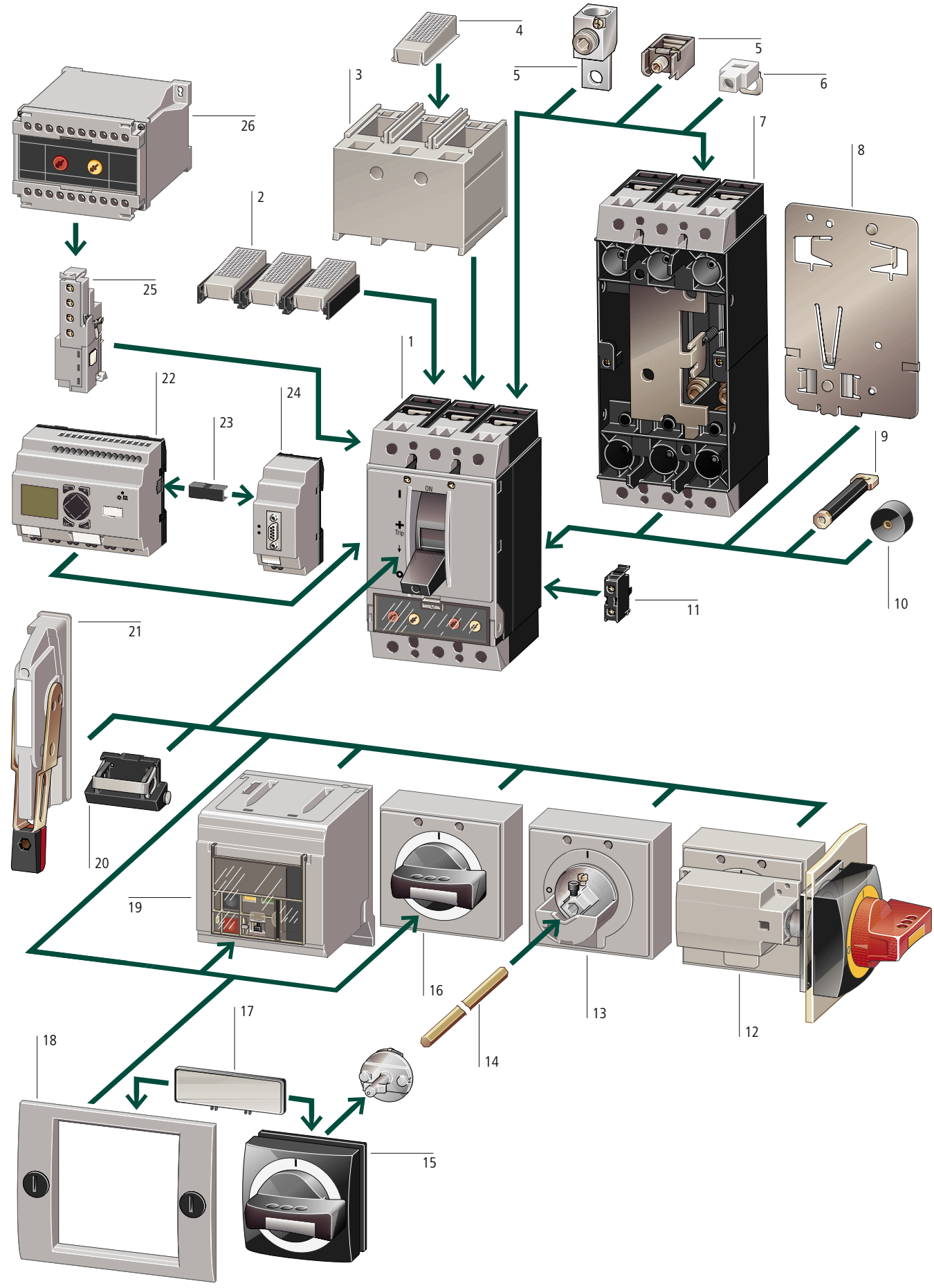

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Basic Units

Add-on functions

Mounting accessories

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Circuit-breakers

With main switch characteristics to IEC/EN 60204 and isolating characteristics to IEC/EN 60947, VDE 0660

Rated uninterrupted current I_u = Rated current I_n
Adjustable overload releases I_r
Adjustable short-circuit releases I_i
Delayed short-circuit releases I_{sd}

Thermomagnetic releases

Protection of systems and cables

I_u A	I_u A	I_r A	I_i A
Ambient temperature at 100% I_u min./max. -25 / +50 °C			
20	20	0.8 – 1 × I_n	350
25	25		
32	32		
40	40		8 – 10 × I_n
50	50		6 – 10 × I_n
63	63		
80	80		
100	100		
125	125		
160	160		NZM1:8 × I_n 6 – 10 × I_n
	200		
	250		

Motor protection

I_u A	I_u A	I_r A	I_i A
20	20	0.8 – 1 × I_n	350
25	25		
32	32		10 – 14 × I_n
40	40		8 – 14 × I_n
50	50		
63	63		
80	80		
100	100		NZM1: 8 – 12.5 × I_n NZM2: 8 – 14 × I_n
	125		8 – 14 × I_n
	160		
	200		

Basic switching capacity		NZMB1-A...		NZMB2-A...		NZMB1-M...		NZMB2-M...	
400/415 V	kA/cos φ	25	0,25	25	0,25	25	0,25	25	0,25
440 V	kA/cos φ	25	0,25	25	0,25	25	0,25	25	0,25
525 V	kA/cos φ	15	0,30	15	0,30	15	0,30	15	0,30

Normal switching capacity		NZMN1-A...		NZMN2-A...		NZMN1-M...		NZMN2-M...	
400/415 V	kA/cos φ	50	0,25	50	0,25	50	0,25	50	0,25
440 V	kA/cos φ	35	0,25	35	0,25	35	0,25	35	0,25
525 V	kA/cos φ	20	0,30	25	0,25	20	0,30	25	0,25
690 V	kA/cos φ	10	0,50	20	0,30	10	0,50	20	0,30

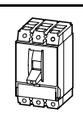
High switching capacity		NZMH1-A-...		NZMH2-A-...		NZMH2-M...	
400/415 V	kA/cos φ	100	0,20	100	0,20	100	0,20
440 V	kA/cos φ	35	0,25	65	0,20	65	0,20
525 V	kA/cos φ	20	0,30	40	0,25	40	0,25
690 V	kA/cos φ	10	0,50	20	0,30	20	0,30

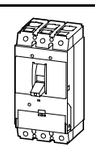
Limiter switching capacity		NZML2-A...		NZML2-M...	
400/415 V	kA/cos φ	150	0,20	150	0,20
440 V	kA/cos φ	130	0,20	130	0,20
525 V	kA/cos φ	50	0,25	50	0,25
690 V	kA/cos φ	20	0,30	20	0,30

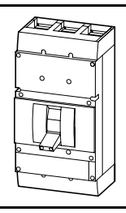
Notes **The stated switching capacity values are rated short-circuit breaking capacity values (I_{cu})**

Switch-disconnector:

With main switch characteristics to IEC/EN 60204 and VDE 0113 and isolating characteristics to IEC/EN 60947, VDE 0660 **without** overload and short-circuit release.







Rated uninterrupted current I_u = rated current I_n

Type N can be triggered with U/A voltage release		63 – **160**		160 – **250**		400 – **630**		800 – **1600**
		PN1-...	N1-...	PN2-...	N2-...	PN3-...	N3-...	N4-...
Rated short-circuit making capacity I_{cm}	kA	2,8	2,8	5,5	5,5	25	25	53
Rated short-time withstand current I_{cw} (1s current$_{rms}$)	kA	2	2	3.5	3.5	12	12	25

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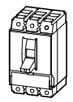

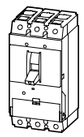

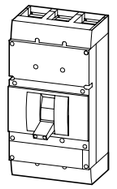

Electronic releases

Systems, cable, selectivity and generator protection

I_u A	I_u A	I_u A	I_r A	I_{sd} A	I_i A
100	250	630	0.5 – 1 × I_n	2 – 10 × I_r	2 – 12 × I_n
160	400	800			
250	**630**	1000			
		1250			
		1600			

Motor protection

I_u A	I_r A	I_i A
90	0.5 – 1 × I_n	2 – 14 × I_r
140		
220		
350		
450		
550		
875		
1400		

NZMN2-...E...		NZMN3-...E...		NZMN4-...E...		NZMN2-ME...		NZMN3-ME...		NZMN4-ME...	
50	0,25	50	0,25	50	0,25	50	0,25	50	0,25	50	0,25
35	0,25	35	0,25	35	0,25	35	0,25	35	0,25	35	0,25
25	0,25	25	0,25	25	0,25	25	0,25	25	0,25	25	0,25
20	0,30	20	0,30	20	0,30	20	0,30	20	0,30	20	0,30

NZMH2-...E...		NZMH3-...E...		NZMH4-...E...		NZMH2-ME...		NZMH3-ME...		NZMH4-ME...	
100	0,20	100	0,20	100	0,20	100	0,20	100	0,20	100	0,20
65	0,20	65	0,20	65	0,20	65	0,20	65	0,20	65	0,20
40	0,25	45	0,25	40	0,25	40	0,25	45	0,25	40	0,25
20	0,30	25	0,30	35	0,25	20	0,30	25	0,30	35	0,25

NZML2-...E...		NZML3-...E...		NZML4-...E...		NZML2-ME...		NZML3-ME...		NZML4-ME...	
150	0,20	150	0,20	100	0,20	150	0,20	150	0,20	100	0,20
130	0,20	130	0,20	85	0,20	130	0,20	130	0,20	85	0,20
50	0,25	65	0,20	65	0,20	50	0,25	65	0,20	65	0,20
20	0,30	35	0,25	50	0,25	20	0,30	35	0,25	50	0,25

A selection of approved circuit-breakers and switch-disconnectors for world-wide use can be found from page 26

Rated current = rated uninterrupted current	Setting range: Overload releases	Setting range: Short-circuit releases	Basic switching capacity 25 kA at 415 V 50/60 Hz: Part no. Article no.	Price see price list	Normal switching capacity 50 kA at 415 V 50/60 Hz: Part no. Article no.	Price see price list	High switching capacity 100 kA at 415 V 50/60 Hz: Part no. Article no.	Price see price list	Limiter switching capacity 150 kA at 415 V 50/60 Hz: Part no. Article no.	Price see price list	Std. pack	Notes
$I_n = I_u$ A	I_r A	I_i A										
Protection of systems and cables												
3 pole												
Terminals standard, terminal screws as accessories												
20	15 – 20	350	**NZMB1-A20** 280987		**NZMN1-A20** 281231		**NZMH1-A20** 284376				1 off	IEC/EN 60947-2 Adjustable overload release I_r • 0.8 – 1 × I_n (ex-factory 0.8 × I_n) Adjustable short-circuit release I_i • 6 – 10 × I_n (ex-factory 6 × I_n) – NZM...-A40: 8 – 10 × I_n (ex-factory 8 × I_n) Fixed short-circuit release I_i • 350 A With I_n = 20 – 32 A • 1280 A with I_n = 160 A (NZM1)
25	20 – 25	350	**NZMB1-A25** 280988		**NZMN1-A25** 281232		**NZMH1-A25** 284377					
32	25 – 32	350	**NZMB1-A32** 280989		**NZMN1-A32** 281233		**NZMH1-A32** 284378					
40	32 – 40	320 – 400	**NZMB1-A40** 259075		**NZMN1-A40** 259081		**NZMH1-A40** 284379					
50	40 – 50	300 – 500	**NZMB1-A50** 259076		**NZMN1-A50** 259082		**NZMH1-A50** 284410					
63	50 – 63	380 – 630	**NZMB1-A63** 259077		**NZMN1-A63** 259083		**NZMH1-A63** 284411					
80	63 – 80	480 – 800	**NZMB1-A80** 259078		**NZMN1-A80** 259084		**NZMH1-A80** 284412					
100	80 – 100	600 – 1000	**NZMB1-A100** 259079		**NZMN1-A100** 259085		**NZMH1-A100** 284413					
125	100 – 125	750 – 1250	**NZMB1-A125** 259080		**NZMN1-A125** 259086		**NZMH1-A125** 284414					
160	125 – 160	1280	**NZMB1-A160** 281230		**NZMN1-A160** 281234		**NZMH1-A160** 284415					
Terminals standard, terminal screws as accessories												
20	15 – 20	350					**NZMH2-A20** 281281		**NZML2-A20** 281284		1 off	
25	20 – 25	350					**NZMH2-A25** 281282		**NZML2-A25** 281285			
32	25 – 32	350					**NZMH2-A32** 281283		**NZML2-A32** 281286			
40	32 – 40	320 – 400					**NZMH2-A40** 259095		**NZML2-A40** 259104			
50	40 – 50	300 – 500					**NZMH2-A50** 259096		**NZML2-A50** 259105			
63	50 – 63	380 – 630					**NZMH2-A63** 259097		**NZML2-A63** 259106			
80	63 – 80	480 – 800					**NZMH2-A80** 259098		**NZML2-A80** 259107			
100	80 – 100	600 – 1000					**NZMH2-A100** 259099		**NZML2-A100** 259108			
125	100 – 125	750 – 1250					**NZMH2-A125** 259100		**NZML2-A125** 259109			
160	125 – 160	960 – 1600	**NZMB2-A160** 259088		**NZMN2-A160** 259092		**NZMH2-A160** 259101		**NZML2-A160** 259110			
200	160 – 200	1200 – 2000	**NZMB2-A200** 259089		**NZMN2-A200** 259093		**NZMH2-A200** 259102		**NZML2-A200** 259111			
250	200 – 250	1500 – 2500	**NZMB2-A250** 259090		**NZMN2-A250** 259094		**NZMH2-A250** 259103		**NZML2-A250** 259112			

Notes Notes for terminals → 95

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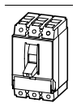
	Rated current = rated uninterrupted current	Setting range: Overload releases	Setting range: Short-circuit releases	Motor rating AC-3 at 400 V 50/60 Hz	Rated operational current AC-3 at 400 V 50/60 Hz	Basic switching capacity **25 kA** at 415 V 50/60 Hz: **Part no.** Article no.	**Price** see price list
	$I_n = I_u$	I_r	I_i	P	I_e		
	A	A	A	kW	A		
Motor protection							
3 pole							
Terminals standard, terminal screws as accessories							
	20	16 – 20	350	7.5	16	**NZMB1-M20**[1] 281537	
	25	20 – 25	350	11	21.7	**NZMB1-M25**[1] 281538	
	32	25 – 32	320 – 448	15	29.3	**NZMB1-M32**[1] 281539	
	40	32 – 40	320 – 560	18.5	36	**NZMB1-M40** 265710	
	50	40 – 50	400 – 700	22	41	**NZMB1-M50** 265711	
	63	50 – 63	504 – 882	30	55	**NZMB1-M63** 265712	
	80	63 – 80	640 – 1120	37	68	**NZMB1-M80** 265713	
	100	80 – 100	800 – 1250	55	99	**NZMB1-M100** 265714	
Terminal screws standard terminals as accessories							
	20	16 – 20	350	7.5	16		
	25	20 – 25	350	11	21.7		
	32	25 – 32	320 – 448	15	29.3		
	40	32 – 40	320 – 560	18.5	36		
	50	40 – 50	400 – 700	22	41		
	63	50 – 63	504 – 882	30	55		
	80	63 – 80	640 – 1120	37	68		
	100	80 – 100	800 – 1400	55	99		
	125	100 – 125	1000 – 1750	55	99	**NZMB2-M125** 265715	
	160	125 – 160	1280 – 2240	75	134	**NZMB2-M160** 265716	
	200	160 – 200	1600 – 2800	110	196	**NZMB2-M200** 265717	

Normal switching capacity **50 kA** at 415 V 50/60 Hz: **Part no.** Article no.	**Price** see price list	High switching capacity **100 kA** at 415 V 50/60 Hz: **Part no.** Article no.	**Price** see price list	Limiter switching capacity **150 kA** at 415 V 50/60 Hz: **Part no.** Article no.	**Price** see price list	Std. pack	**Notes**
NZMN1-M20[1] 281550						1 off	IEC/EN 60947-4-1 and IEC/EN 60947-2 Circuit-breakers fulfil all the demands of utilization category AC-3. Adjustable overload release I_r • 0.8 – 1 × I_n (ex-factory 0.8 × I_n) – NZM...1-M...: with single-phasing sensitivity – Tripping class 10 A Adjustable short-circuit release I_i • 8 – 14 × I_n (ex-factory 12 × I_n) – NZM...-M32: 10 – 14 × I_n (ex-factory12 × I_n) – NZM...1-M100: 8 – 12.5 × I_n (ex-factory 12 × I_n) Fixed short-circuit release I_i • 350 A With I_n = 20 – 25 A
NZMN1-M25[1] 281551							
NZMN1-M32[1] 281552							
NZMN1-M40 265718							
NZMN1-M50 265719							
NZMN1-M63 265720							
NZMN1-M80 265721							
NZMN1-M100 265722							
		NZMH2-M20 281299		**NZML2-M20** 281310		1 off	
		NZMH2-M25 281300		**NZML2-M25** 281311			
		NZMH2-M32 281301		**NZML2-M32** 281312			
		NZMH2-M40 281302		**NZML2-M40** 281313			
		NZMH2-M50 281303		**NZML2-M50** 281314			
		NZMH2-M63 281304		**NZML2-M63** 281315			
		NZMH2-M80 281305		**NZML2-M80** 281316			
		NZMH2-M100 281306		**NZML2-M100** 281317			
NZMN2-M125 265723		**NZMH2-M125** 281307		**NZML2-M125** 281318			
NZMN2-M160 265724		**NZMH2-M160** 281308		**NZML2-M160** 281319			
NZMN2-M200 265725		**NZMH2-M200** 281309		**NZML2-M200** 281320			

Note Notes for terminals → 95

[1] on request

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Circuit-breakers, switch-disconnectors up to 1600 A

Moeller SK1230-1157GB-INT

	Rated current = rated uninterrupted current	**Setting range** Short-circuit releases	Motor rating AC-3 at 400 V 50/60 Hz	Rated operational current AC-3 at 400 V 50/60 Hz	Basic switching capacity **25 kA** at 415 V 50/60 Hz **Part no.** Article no.	**Price** see price list	Normal switching capacity **50 kA** at 415 V 50/60 Hz **Part no.** Article no.	**Price** see price list	High switching capacity **100 kA** at 415 V 50/60 Hz **Part no.** Article no.	**Price** see price list	Limiter switching capacity **150 kA** at 415 V 50/60 Hz **Part no.** Article no.	**Price** see price list	Std. pack	**Notes**
	$I_n = I_u$	I_i	P	I_e										
	A	A	kW	A										
		$I>$												
Short-circuit protection														
Motor protection in conjunction with overload relay • With short-circuit release • Without overload release														
3-pole														
Terminals standard, terminal screws as accessories														
	40	320 – 560	18.5	36	**NZMB1-S40** 265726		**NZMN1-S40** 265731		**NZMH1-S40** 284436				1 off	IEC/EN 60947-4-1 and IEC/EN 60947-2 Circuit-breakers conform to all demands of utilization category AC-3. Adjustable short-circuit release I_i • 8 – 14 × I_n (ex-factory 12 × I_n) – NZM...1-S100, NZM...2-S200: 8 – 12.5 × I_n (ex-factory 12 × I_n) Without overload release I_r
	50	400 – 700	22	41	**NZMB1-S50** 265727		**NZMN1-S50** 265732		**NZMH1-S50** 284437					
	63	504 – 882	30	55	**NZMB1-S63** 265728		**NZMN1-S63** 265733		**NZMH1-S63** 284438					
	80	640 – 1120	37	68	**NZMB1-S80** 265729		**NZMN1-S80** 265734		**NZMH1-S80** 284439					
	100	800 – 1250	55	99	**NZMB1-S100** 265730		**NZMN1-S100** 265735		**NZMH1-S100** 284440					
Terminal screws standard, terminals as accessories														
	40	320 – 560	18.5	36					**NZMH2-S40** 265742		**NZML2-S40** 265750		1 off	
	50	400 – 700	22	41					**NZMH2-S50** 265743		**NZML2-S50** 265751			
	63	504 – 882	30	55					**NZMH2-S63** 265744		**NZML2-S63** 265752			
	80	640 – 1120	37	68					**NZMH2-S80** 265745		**NZML2-S80** 265753			
	100	800 – 1400	55	99					**NZMH2-S100** 265746		**NZML2-S100** 265754			
	125	1000 – 1750	55	99	**NZMB2-S125** 265736		**NZMN2-S125** 265739		**NZMH2-S125** 265747		**NZML2-S125** 265755			
	160	1280 – 2240	75	134	**NZMB2-S160** 265737		**NZMN2-S160** 265740		**NZMH2-S160** 265748		**NZML2-S160** 265756			
	200	1600 – 2500	110	196	**NZMB2-S200** 265738		**NZMN2-S200** 265741		**NZMH2-S200** 265749		**NZML2-S200** 265757			

Selection

of circuit-breakers without overload release when combining with ZEV electronic motor-protective relay:

The tripping response of the ZEV motor-protective relay is matched by setting of the tripping class (CLASS), to the starting behaviour of the motor to be protected.

	I_n in A	**Maximum permissible tripping class CLASS**
NZM...1-S...	40	30
	50	30
	63	30
	80	20
	100	15
NZM...2-S...	40	30
	50	30
	63	30
	80	30
	100	30
	125	30
	160	20
	200	10

Tripping class	**Tripping time T_p with loading on all poles with 7.2 times the current setting value**
10 A	2 s < T_p ≦ 10 s
10	4 s < T_p ≦ 10 s
20	6 s < T_p ≦ 20 s
30	9 s < T_p ≦ 30 s

Motor-starter combination of classification types 1 and 2 can be found in the "Main catalogue Industrial switchgear" in the "Fuseless motor-starter combinations" chapter.

Notes

Higher currents:
NZM...3/4...ME → 14
Notes for terminals → 95

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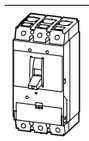
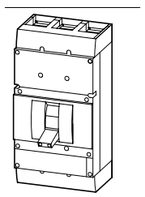
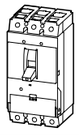
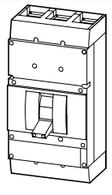
	Rated current = rated uninterrupted current	Setting range: Overload releases	Setting range: Short-circuit releases: Non-delayed	Setting range: Short-circuit releases: Delayed short-circuit	Normal switching capacity 50 kA at 415 V 50/60 Hz: Part no. Article no.	Price see price list
	$I_n = I_u$	I_r	I_i	I_{sd}		
	A	A	A	A		
Protection of systems and cables						
3-pole						
Terminal screws standard terminals as accessories						
	250	125 – 250	500 – 2750	–	**NZMN3-AE250** 259113	
	400	200 – 400	800 – 4400	–	**NZMN3-AE400** 259114	
	630	315 – 630	1260 – 5040	–	**NZMN3-AE630** 259115	
	630	315 – 630	1260 – 7560	–	**NZMN4-AE630** 265758	
	800	400 – 800	1600 – 9600	–	**NZMN4-AE800** 265759	
	1000	500 – 1000	2000 – 12000	–	**NZMN4-AE1000** 265760	
	1250	630 – 1250	2500 – 15000	–	**NZMN4-AE1250** 265761	
	1600	800 – 1600	3200 – 19200	–	**NZMN4-AE1600** 265762	
Systems protection, cable protection, selectivity, generator protection						
3-pole						
Terminal screws standard terminals as accessories						
	100	50 – 100	1200	100 – 1000	**NZMN2-VE100** 259122	
	160	80 – 160	1920	160 – 1600	**NZMN2-VE160** 259123	
	250	125 – 250	3000	250 – 2500	**NZMN2-VE250** 259124	
	250	125 – 250	500 – 2750	250 – 2500	**NZMN3-VE250** 259131	
	400	200 – 400	800 – 4400	400 – 4000	**NZMN3-VE400** 259132	
	630	315 – 630	1260 – 5040	472 – 4410	**NZMN3-VE630** 259133	
	630	315 – 630	1260 – 7560	630 – 6300	**NZMN4-VE630** 265768	
	800	400 – 800	1600 – 9600	800 – 8000	**NZMN4-VE800** 265769	
	1000	500 – 1000	2000 – 12000	1000 – 10000	**NZMN4-VE1000** 265770	
	1250	630 – 1250	2500 – 15000	1250 – 12500	**NZMN4-VE1250** 265771	
	1600	800 – 1600	3200 – 19200	1600 – 16000	**NZMN4-VE1600** 265772	

	High switching capacity 100 kA at 415 V 50/60 Hz: Part no. Article no.	Price see price list	Limiter switching capacity[1] 150 kA at 415 V 50/60 Hz: Part no. Article no.	Price see price list	Std. pack	Notes
	NZMH3-AE250 259116		**NZML3-AE250** 259119		1 off	IEC/EN 60947-2 Adjustable overload release I_r • 0.5 – 1 × I_n (ex-factory 0.8 × I_n) R.m.s. value measurement and “thermal memory” Adjustable short-circuit release I_i • NZM...3-AE250/400: 2 – 11 × I_n (ex-factory 6 × I_n) • NZM...3-AE630: 2 – 8 × I_n (ex-factory 6 × I_n) • NZM...4-AE...: 2 – 12 × I_n (ex-factory 6 × I_n) [1]For limiter switching capacity with NZML4-AE... the following applies: 100 kA
	NZMH3-AE400 259117		**NZML3-AE400** 259120			
	NZMH3-AE630 259118		**NZML3-AE630** 259121			
	NZMH4-AE630 265763		**NZML4-AE630** 283128			
	NZMH4-AE800 265764		**NZML4-AE800** 283129			
	NZMH4-AE1000 265765		**NZML4-AE1000** 283210			
	NZMH4-AE1250 265766		**NZML4-AE1250** 283211			
	NZMH4-AE1600 265767		**NZML4-AE1600** 283212			
	NZMH2-VE100 259125		**NZML2-VE100** 259128		1 off	IEC/EN 60947-2 Adjustable overload release I_r • 0.5 – 1 × I_n (ex-factory 0.8 × I_n) R.m.s. value measurement and “thermal memory” Adjustable time delay setting to overcome current peaks t_r • 2 – 20 s with 6 × I_r as well as infinity (without overload release) (ex-factory 10 s) Adjustable delayed short-circuit releases I_{sd} • 2 – 10 × I_r (ex-factory 6 × I_r) – NZM...3-VE630: 1.5 – 7 × I_r (ex-factory 6 × I_r) Adjustable delay time t_{sd} • Steps: 0, 20, 60, 100, 200, 300, 500, 750, 1000 ms (ex-factory 0 ms) Adjustable non-delayed short-circuit releases I_i • NZM2 fixed 12 × I_n • NZM...3-VE250/400: 2 – 11 × I_n (ex-factory 6 × I_n) • NZM...3-VE630: 2 – 8 × I_n (ex-factory 6 × I_n) • NZM...4-VE...: 2 – 12 × I_n (ex-factory 12 × I_n) Switchable i^2t constant function (ex-factory OFF) • NZM2 fixed OFF • NZM3, NZM4 switchable (ex-factory OFF) [1]For limiter switching capacity with NZML4-VE... the following applies: 100 kA
	NZMH2-VE160 259126		**NZML2-VE160** 259129			
	NZMH2-VE250 259127		**NZML2-VE250** 259130			
	NZMH3-VE250 259134		**NZML3-VE250** 259137			
	NZMH3-VE400 259135		**NZML3-VE400** 259138			
	NZMH3-VE630 259136		**NZML3-VE630** 259139			
	NZMH4-VE630 265773		**NZML4-VE630** 283213			
	NZMH4-VE800 265774		**NZML4-VE800** 283214			
	NZMH4-VE1000 265775		**NZML4-VE1000** 283215			
	NZMH4-VE1250 265776		**NZML4-VE1250** 283216			
	NZMH4-VE1600 265777		**NZML4-VE1600** 283217			

Notes Notes for terminals → 99

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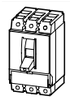
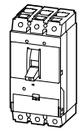
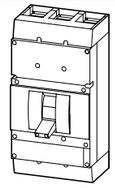
	Rated current = rated uninterrupted current	Setting range: Overload releases	Setting range: Short-circuit releases	Motor rating AC-3 at 400 V 50/60 Hz	Rated operational current AC-3 at 400 V 50/60 Hz	Normal switching capacity **50 kA** at 415 V 50/60 Hz: **Part no.** Article no.	**Price** see price list
	$I_n = I_u$	I_r	I_i	P	I_e		
	A	A	A	kW	A		
Motor protection							
3-pole							
Terminal screws standard, terminals as accessories							
	90	45 – 90	90 – 1260	45	81	**NZMN2-ME90** 265778	
	140	70 – 140	140 – 1960	75	134	**NZMN2-ME140** 265779	
	220	110 – 220	220 – 3080	110	196	**NZMN2-ME220** 265780	
	220	110 – 220	220 – 3080	110	196	**NZMN3-ME220** 265781	
	350	175 – 350	350 – 4900	200	349	**NZMN3-ME350** 265782	
	450	225 – 450	450 – 6300	250	437	**NZMN3-ME450** 284468	
	550	275 – 550	550 – 7700	315[1)]	544[1)]	**NZMN4-ME550** 265783	
	875	438 – 875	875 – 12250	500[1)]	820[1)]	**NZMN4-ME875** 265784	
	1400	700 – 1400	1400 – 19600	630[1)]	1066[1)]	**NZMN4-ME1400** 265785	

Notes Notes for terminals → 99

[1)] At 690 V AC NZM...4-ME550: P = 560 kW; I_e = 550 A
NZM...4-ME875: P = 600 kW; I_e = 588 A
NZM...4-ME1400: P = 600 kW; I_e = 588 A

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High switching capacity **100 kA** at 415 V 50/60 Hz: **Part no.** Article no.	**Price** see price list	Limiter switching capacity[2)] **150 kA** at 415 V 50/60 Hz: **Part no.** Article no.	**Price** see price list	Std. pack	**Notes**
NZMH2-ME90 265786		**NZML2-ME90** 265794		1 off	IEC/EN 60947-2 and IEC/EN 60947-4-1 Circuit-breakers fulfil all the demands of utilization category AC-3. Adjustable overload release I_r • 0.5 – 1 × I_n (ex-factory 0.8 × I_n) R.m.s. value measurement and "thermal memory" Adjustable time delay setting to overcome current peaks t_r • 2 – 20 s with 6 × I_r, as well as infinity (without overload release) (ex-factory 10 s) Phase-failure sensitivity Adjustable short-circuit release I_i • 2 – 14 × I_r (ex-factory 12 × I_r) [2)] For limiter switching capacity with NZML4-ME... the following applies: 85 kA
NZMH2-ME140 265787		**NZML2-ME140** 265795			
NZMH2-ME220 265788		**NZML2-ME220** 265796			
NZMH3-ME220 265789		**NZML3-ME220** 265797			
NZMH3-ME350 265790		**NZML3-ME350** 265798			
NZMH3-ME450 284469		**NZML3-ME450** 284470			
NZMH4-ME550 265791		**NZML4-ME550** 283218			
NZMH4-ME875 265792		**NZML4-ME875** 283219			
NZMH4-ME1400 265793		**NZML4-ME1400** 283220			

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Circuit-breakers, switch-disconnectors up to 1600 A

Rated current = rated uninterrupted current	Setting range: Overload releases, Main pole	Setting range: Overload releases, Neutral conductor	Setting range: Short-circuit releases	Basic switching capacity 25 kA at 415 V 50/60 Hz, Part no. Article no.	Price see price list	Normal switching capacity 50 kA at 415 V 50/60 Hz, Part no. Article no.	Price see price list	High switching capacity 100 kA at 415 V 50/60 Hz, Part no. Article no.	Price see price list	Std. pack	Notes
$I_n = I_u$ A	I_r A	I_r A	I_i A								
Protection of systems and cables											
4-pole											
Terminals standard terminal screw as accessories											
20	15 – 20	15 – 20	350	**NZMB1-4-A20** 281237		**NZMN1-4-A20** 281245		**NZMH1-4-A20** 284416		1 off	IEC/EN 60947-2 Adjustable overload release I_r • 0.8 – 1 × I_n (ex-factory 0.8 × I_n) Setting on neutral pole implemented via the main pole setting I_r of the main pole. Adjustable short-circuit release I_i • 6 – 10 × I_n (ex-factory 6 × I_n) – NZM...1-4-A40:8 – 10 × I_n (ex-factory 8 × I_n) – NZM...2-4-A40: 8 – 10 × I_n (ex-factory 8 × I_n) Fixed short-circuit release I_i • 350 A with I_n = 20 – 32 A • 1280 A with I_n = 160 A (8 × I_n) NZM..1-4-A... • With 100% overload and short-circuit protection in 4th pole NZM...1-4-A.../0 • No overload and short-circuit protection in 4th pole • Not for use in IT electrical power networks
20	15 – 20	–	350	**NZMB1-4-A20/0** 281238		**NZMN1-4-A20/0** 281246		**NZMH1-4-A20/0** 284417			
25	20 – 25	20 – 25	350	**NZMB1-4-A25** 281239		**NZMN1-4-A25** 281247		**NZMH1-4-A25** 284418			
25	20 – 25	–	350	**NZMB1-4-A25/0** 281240		**NZMN1-4-A25/0** 281248		**NZMH1-4-A25/0** 284419			
32	25 – 32	25 – 32	350	**NZMB1-4-A32** 281241		**NZMN1-4-A32** 281249		**NZMH1-4-A32** 284420			
32	25 – 32	–	350	**NZMB1-4-A32/0** 281242		**NZMN1-4-A32/0** 281250		**NZMH1-4-A32/0** 284421			
40	32 – 40	32 – 40	320 – 400	**NZMB1-4-A40** 265799		**NZMN1-4-A40** 265811		**NZMH1-4-A40** 284422			
40	32 – 40	–	320 – 400	**NZMB1-4-A40/0** 265800		**NZMN1-4-A40/0** 265812		**NZMH1-4-A40/0** 284423			
50	40 – 50	40 – 50	300 – 500	**NZMB1-4-A50** 265801		**NZMN1-4-A50** 265813		**NZMH1-4-A50** 284424			
50	40 – 50	–	300 – 500	**NZMB1-4-A50/0** 265802		**NZMN1-4-A50/0** 265814		**NZMH1-4-A50/0** 284425			
63	50 – 63	50 – 63	380 – 630	**NZMB1-4-A63** 265803		**NZMN1-4-A63** 265815		**NZMH1-4-A63** 284426			
63	50 – 63	–	380 – 630	**NZMB1-4-A63/0** 265804		**NZMN1-4-A63/0** 265816		**NZMH1-4-A63/0** 284427			
80	63 – 80	63 – 80	480 – 800	**NZMB1-4-A80** 265805		**NZMN1-4-A80** 265817		**NZMH1-4-A80** 284428			
80	63 – 80	–	480 – 800	**NZMB1-4-A80/0** 265806		**NZMN1-4-A80/0** 265818		**NZMH1-4-A80/0** 284429			
100	80 – 100	80 – 100	600 – 1000	**NZMB1-4-A100** 265807		**NZMN1-4-A100** 265819		**NZMH1-4-A100** 284430			
100	80 – 100	–	600 – 1000	**NZMB1-4-A100/0** 265808		**NZMN1-4-A100/0** 265820		**NZMH1-4-A100/0** 284431			
125	100 – 125	100 – 125	750 – 1250	**NZMB1-4-A125** 265809		**NZMN1-4-A125** 265821		**NZMH1-4-A125** 284432			
125	100 – 125	–	750 – 1250	**NZMB1-4-A125/0** 265810		**NZMN1-4-A125/0** 265822		**NZMH1-4-A125/0** 284433			
160	125 – 160	125 – 160	1280	**NZMB1-4-A160** 281243		**NZMN1-4-A160** 281251		**NZMH1-4-A160** 284434			
160	125 – 160	–	1280	**NZMB1-4-A160/0** 281244		**NZMN1-4-A160/0** 281252		**NZMH1-4-A160/0** 284435			

Notes Notes for terminals → 95

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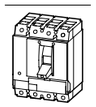
Rated current = rated uninterrupted current	Setting range: Overload releases, Main pole	Setting range: Overload releases, Neutral conductor	Setting range: Short-circuit releases	Basic switching capacity 25 kA at 415 V 50/60 Hz: Part no. Article no.	Basic switching capacity 25 kA at 415 V 50/60 Hz: Price see price list		
$I_n = I_u$ A	I_r A	I_r A	I_i A				
Protection of systems and cables							
4-pole							
Terminal screws standard terminals as accessories							
							
20	15 – 20	15 – 20	350				
20	15 – 20	–	350				
25	20 – 25	20 – 25	350				
25	20 – 25	–	350				
32	25 – 32	25 – 32	350				
32	25 – 32	–	350				
40	32 – 40	32 – 40	320 – 400				
40	32 – 40	–	320 – 400				
50	40 – 50	40 – 50	300 – 500				
50	40 – 50	–	300 – 500				
63	50 – 63	50 – 63	380 – 630				
63	50 – 63	–	380 – 630				
80	63 – 80	63 – 80	480 – 800				
80	63 – 80	–	480 – 800				
100	80 – 100	80 – 100	600 – 1000				
100	80 – 100	–	600 – 1000				
125	100 – 125	100 – 125	750 – 1250				
125	100 – 125	–	750 – 1250				
160	125 – 160	125 – 160	960 – 1600	**NZMB2-4-A160** 265849			
160	125 – 160	80 – 100	960 – 1600	**NZMB2-4-A160/100** 265850			
160	125 – 160	–	960 – 1600	**NZMB2-4-A160/0** 265851			
200	160 – 200	160 – 200	1200 – 2000	**NZMB2-4-A200** 265852			
200	160 – 200	100 – 125	1200 – 2000	**NZMB2-4-A200/125** 265853			
200	160 – 200	–	1200 – 2000	**NZMB2-4-A200/0** 265854			
250	200 – 250	200 – 250	1500 – 2500	**NZMB2-4-A250** 265855			
250	200 – 250	125 – 160	1500 – 2500	**NZMB2-4-A250/160** 265856			
250	200 – 250	–	1500 – 2500	**NZMB2-4-A250/0** 265857			

Notes Notes for terminals → 99

Circuit-breakers, switch-disconnectors up to 1600 A

Moeller SK1230-1157GB-INT

Normal switching capacity 50 kA at 415 V 50/60 Hz: Part no. Article no.	Normal switching capacity 50 kA at 415 V 50/60 Hz: Price see price list	High switching capacity 100 kA at 415 V 50/60 Hz: Part no. Article no.	High switching capacity 100 kA at 415 V 50/60 Hz: Price see price list	Limiter switching capacity 150 kA at 415 V 50/60 Hz: Part no. Article no.	Limiter switching capacity 150 kA at 415 V 50/60 Hz: Price see price list	Std. pack	Notes
		NZMH2-4-A20 281287		**NZML2-4-A20** 281293		1 off	IEC/EN 60947-2 Adjustable overload release I_r • 0.8 – 1 × I_n (ex-factory 0.8 × I_n) Setting on neutral pole implemented via the main pole setting I_r of the main pole. Adjustable short-circuit release I_i • 6 – 10 × I_n (ex-factory 6 × I_n) – NZM...1-4-A40: 8 – 10 × I_n (ex-factory 8 × I_n) – NZM...2-4-A40: 8 – 10 × I_n (ex-factory 8 × I_n) Fixed short-circuit release I_i • 350 A with I_n = 20 – 32 A • 1280 A with I_n = 160 A (8 × I_n) NZM..2-4-A... • With 100% overload and short-circuit protection in 4th pole NZM..2-4-A.../60 • With 60% overload and short-circuit protection in 4th pole NZM...2-4-A.../0 • No overload and short-circuit protection in 4th pole • Not for use in IT electrical power networks
		NZMH2-4-A20/0 281288		**NZML2-4-A20/0** 281294			
		NZMH2-4-A25 281289		**NZML2-4-A25** 281295			
		NZMH2-4-A25/0 281290		**NZML2-4-A25/0** 281296			
		NZMH2-4-A32 281291		**NZML2-4-A32** 281297			
		NZMH2-4-A32/0 281292		**NZML2-4-A32/0** 281298			
		NZMH2-4-A40 265823		**NZML2-4-A40** 265835			
		NZMH2-4-A40/0 265824		**NZML2-4-A40/0** 265836			
		NZMH2-4-A50 265825		**NZML2-4-A50** 265837			
		NZMH2-4-A50/0 265826		**NZML2-4-A50/0** 265838			
		NZMH2-4-A63 265827		**NZML2-4-A63** 265839			
		NZMH2-4-A63/0 265828		**NZML2-4-A63/0** 265840			
		NZMH2-4-A80 265829		**NZML2-4-A80** 265841			
		NZMH2-4-A80/0 265830		**NZML2-4-A80/0** 265842			
		NZMH2-4-A100 265831		**NZML2-4-A100** 265843			
		NZMH2-4-A100/0 265832		**NZML2-4-A100/0** 265844			
		NZMH2-4-A125 265833		**NZML2-4-A125** 265845			
		NZMH2-4-A125/0 265834		**NZML2-4-A125/0** 265846			
NZMN2-4-A160 265860		**NZMH2-4-A160** 265871		**NZML2-4-A160** 265882			
NZMN2-4-A160/100 265861		**NZMH2-4-A160/100** 265872		**NZML2-4-A160/100** 265883			
NZMN2-4-A160/0 265862		**NZMH2-4-A160/0** 265873		**NZML2-4-A160/0** 265884			
NZMN2-4-A200 265863		**NZMH2-4-A200** 265874		**NZML2-4-A200** 265885			
NZMN2-4-A200/125 265864		**NZMH2-4-A200/125** 265875		**NZML2-4-A200/125** 265886			
NZMN2-4-A200/0 265865		**NZMH2-4-A200/0** 265876		**NZML2-4-A200/0** 265887			
NZMN2-4-A250 265866		**NZMH2-4-A250** 265877		**NZML2-4-A250** 265888			
NZMN2-4-A250/160 265867		**NZMH2-4-A250/160** 265878		**NZML2-4-A250/160** 265889			
NZMN2-4-A250/0 265868		**NZMH2-4-A250/0** 265879		**NZML2-4-A250/0** 265890			

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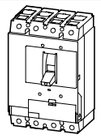
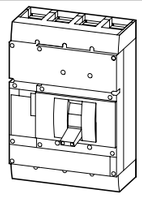
	Rated current = rated uninterrupted current	Setting range: Overload releases, Main pole	Setting range: Overload releases, Neutral conductor	Short-circuit releases	Normal switching capacity 50 kA at 415 V 50/60 Hz, Part no. Article no.	Price see price list
	$I_n = I_u$ A	I_r A	I_r A	I_i A		
Protection of systems and cables						
4-pole						
Terminal screws standard, terminals as accessories						
	400	200 – 400	200 – 400	800 – 4400	**NZMN3-4-AE400** 265891	
	400	200 – 400	125 – 250	800 – 4400	**NZMN3-4-AE400/250** 265892	
	400	200 – 400	–	800 – 4400	**NZMN3-4-AE400/0** 265893	
	630	315 – 630	315 – 630	1260 – 5040	**NZMN3-4-AE630** 265894	
	630	315 – 630	200 – 400	1260 – 5040	**NZMN3-4-AE630/400** 265895	
	630	315 – 630	–	1260 – 5040	**NZMN3-4-AE630/0** 265896	
	800	400 – 800	400 – 800	1600 – 9600	**NZMN4-4-AE800** 265909	
	800	400 – 800	250 – 500	1600 – 9600	**NZMN4-4-AE800/500** 265910	
	800	400 – 800	–	1600 – 9600	**NZMN4-4-AE800/0** 265911	
	1000	500 – 1000	500 – 1000	2000 – 12000	**NZMN4-4-AE1000** 265912	
	1000	500 – 1000	315 – 630	2000 – 12000	**NZMN4-4-AE1000/630** 265913	
	1000	500 – 1000	–	2000 – 12000	**NZMN4-4-AE1000/0** 265914	
	1250	630 – 1250	630 – 1250	2500 – 15000	**NZMN4-4-AE1250** 265915	
	1250	630 – 1250	400 – 800	2500 – 15000	**NZMN4-4-AE1250/800** 265916	
	1250	630 – 1250	–	2500 – 15000	**NZMN4-4-AE1250/0** 265917	
	1600	800 – 1600	800 – 1600	3200 – 19200	**NZMN4-4-AE1600** 265918	
	1600	800 – 1600	500 – 1000	3200 – 19200	**NZMN4-4-AE1600/1000** 265919	
	1600	800 – 1600	–	3200 – 19200	**NZMN4-4-AE1600/0** 265920	

Notes Notes for terminals → 103

Moeller SK1230-1157GB-INT

High switching capacity 100 kA at 415 V 50/60 Hz, Part no. Article no.	Price see price list	Limiter switching capacity[1] 150 kA at 415 V 50/60 Hz, Part no. Article no.	Price see price list	Std. pack	Notes
NZMH3-4-AE400 265897		**NZML3-4-AE400** 265903		1 off	IEC/EN 60947-2 Adjustable overload release I_r • 0.5 – 1 × I_n (ex-factory 0.8 × I_n) Setting on neutral pole implemented via the main pole setting I_r of the main pole. R.m.s. value measurement and "thermal memory" Adjustable short-circuit release I_i • NZM...3-4-AE400: 2 – 11 × I_n (ex-factory 6 × I_n) • NZM...3-4-AE630: 2 – 8 × I_n (ex-factory 6 × I_n) • NZM...4-4-AE...: 2 – 12 × I_n (ex-factory 6 × I_n) NZM...-4-AE... • With 100% overload and short-circuit protection in 4th pole NZM...-4-AE.../... • With 60% overload and short-circuit protection in 4th pole NZM...-4-AE.../0 • No overload and 100 % short-circuit protection in the 4th pole • Not for use in IT electrical power networks [1] For limiter switching capacity with NZML4-4-AE... the following applies: 100 kA
NZMH3-4-AE400/250 265898		**NZML3-4-AE400/250** 265904			
NZMH3-4-AE400/0 265899		**NZML3-4-AE400/0** 265905			
NZMH3-4-AE630 265900		**NZML3-4-AE630** 265906			
NZMH3-4-AE630/400 265901		**NZML3-4-AE630/400** 265907			
NZMH3-4-AE630/0 265902		**NZML3-4-AE630/0** 265908			
NZMH4-4-AE800 265921		**NZML4-4-AE800** 283221			
NZMH4-4-AE800/500 265922		**NZML4-4-AE800/500** 283222			
NZMH4-4-AE800/0 265923		**NZML4-4-AE800/0** 283223			
NZMH4-4-AE1000 265924		**NZML4-4-AE1000** 283224			
NZMH4-4-AE1000/630 265925		**NZML4-4-AE1000/630** 283225			
NZMH4-4-AE1000/0 265926		**NZML4-4-AE1000/0** 283226			
NZMH4-4-AE1250 265927		**NZML4-4-AE1250** 283227			
NZMH4-4-AE1250/800 265928		**NZML4-4-AE1250/800** 283228			
NZMH4-4-AE1250/0 265929		**NZML4-4-AE1250/0** 283229			
NZMH4-4-AE1600 265930		**NZML4-4-AE1600** 283230			
NZMH4-4-AE1600/1000 265931		**NZML4-4-AE1600/1000** 283231			
NZMH4-4-AE1600/0 265932		**NZML4-4-AE1600/0** 283232			

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Circuit-breakers, switch-disconnectors up to 1600 A

Moeller SK1230-1157GB-INT

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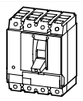
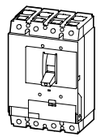
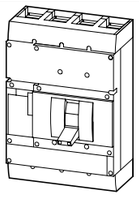
Rated current = rated uninterrupted current	Setting range: Overload releases, Main pole	Overload releases, Neutral conductor	Short-circuit releases, Non-delayed	Short-circuit releases, Delayed short-circuit release	Normal switching capacity 50 kA at 415 V 50/60 Hz: Part no. Article no.	Price see price list	High switching capacity 100 kA at 415 V 50/60 Hz: Part no. Article no.	Price see price list	Limiter switching capacity[1] 150 kA at 415 V 50/60 Hz: Part no. Article no.	Price see price list	Std. pack	Notes
$I_n = I_u$ A	I_r A	I_r A	I_i A	I_{sd} A								
Systems protection, cable protection, selectivity, generator protection												
4-pole												
Terminals standard, terminal screws as accessories												
100	50 – 100	50 – 100	1200	100 – 1000	**NZMN2-4-VE100** 265933		**NZMH2-4-VE100** 265941		**NZML2-4-VE100** 265949		1 off	IEC/EN 60947-2 Adjustable overload release I_r • 0.5 – 1 × I_n (ex-factory 0.8 × I_n) Setting on neutral pole implemented via the main pole setting I_r of the main pole. R.m.s. value measurement and "thermal memory" Adjustable time delay setting to overcome current peaks t_r • 2 – 20 s with 6 × I_r as well as infinity (without overload release) (ex-factory 10 s) – NZM...3-4-VE630: 2 – 14 s With 6 × I_r as well as infinity (without overload release) Adjustable delayed short-circuit releases I_{sd} • 2 – 10 × I_r (ex-factory 6 × I_r) – NZM...3-4-VE630: 1.5 – 7 × I_r (ex-factory 6 × I_r) Adjustable delay time t_{sd} • Steps: 0, 20, 60, 100, 200, 300, 500, 750, 1000 ms (ex-factory 0 ms) Adjustable non-delayed short-circuit releases I_i • NZM2 fixed 12 × I_n • NZM...3-4-VE400: 2 – 11 × I_n (ex-factory 6 × I_n) • NZM...3-4-VE630: 2 – 8 × I_n (ex-factory 6 × I_n) • NZM...4-4-VE...: 2 – 12 × I_n (ex-factory 12 × I_n) i^2t constant function (ex-factory OFF) NZM2 fixed OFF NZM3, NZM4 switched (ex-factory OFF) NZM...-4-VE... • With 100% overload and short-circuit protection in 4th pole NZM...-4-VE.../... • With 60% overload and short-circuit protection in 4th pole NZM...-4-VE.../0 • No overload and 100 % short-circuit protection in the 4th pole • Not for use in IT electrical power networks [1] For limiter switching capacity with NZML4-4-VE... the following applies: 100 kA
100	50 – 100	–	1200	100 – 1000	**NZMN2-4-VE100/0** 265934		**NZMH2-4-VE100/0** 265942		**NZML2-4-VE100/0** 265950			
160	80 – 160	80 – 160	1920	160 – 1600	**NZMN2-4-VE160** 265935		**NZMH2-4-VE160** 265943		**NZML2-4-VE160** 265951			
160	80 – 160	50 – 100	1920	160 – 1600	**NZMN2-4-VE160/100** 265936		**NZMH2-4-VE160/100** 265944		**NZML2-4-VE160/100** 265952			
160	80 – 160	–	1920	160 – 1600	**NZMN2-4-VE160/0** 265937		**NZMH2-4-VE160/0** 265945		**NZML2-4-VE160/0** 265953			
250	125 – 250	125 – 250	3000	250 – 2500	**NZMN2-4-VE250** 265938		**NZMH2-4-VE250** 265946		**NZML2-4-VE250** 265954			
250	125 – 250	80 – 160	3000	250 – 2500	**NZMN2-4-VE250/160** 265939		**NZMH2-4-VE250/160** 265947		**NZML2-4-VE250/160** 265955			
250	125 – 250	–	3000	250 – 2500	**NZMN2-4-VE250/0** 265940		**NZMH2-4-VE250/0** 265948		**NZML2-4-VE250/0** 265956			
400	200 – 400	200 – 400	800 – 4400	400 – 4000	**NZMN3-4-VE400** 265957		**NZMH3-4-VE400** 265963		**NZML3-4-VE400** 265969			
400	200 – 400	125 – 250	800 – 4400	400 – 4000	**NZMN3-4-VE400/250** 265958		**NZMH3-4-VE400/250** 265964		**NZML3-4-VE400/250** 265970			
400	200 – 400	–	800 – 4400	400 – 4000	**NZMN3-4-VE400/0** 265959		**NZMH3-4-VE400/0** 265965		**NZML3-4-VE400/0** 265971			
630	315 – 630	315 – 630	1260 – 5040	472 – 4410	**NZMN3-4-VE630** 265960		**NZMH3-4-VE630** 265966		**NZML3-4-VE630** 265972			
630	315 – 630	200 – 400	1260 – 5040	472 – 4410	**NZMN3-4-VE630/400** 265961		**NZMH3-4-VE630/400** 265967		**NZML3-4-VE630/400** 265973			
630	315 – 630	–	1260 – 5040	472 – 4410	**NZMN3-4-VE630/0** 265962		**NZMH3-4-VE630/0** 265968		**NZML3-4-VE630/0** 265974			
800	400 – 800	400 – 800	1600 – 9600	800 – 8000	**NZMN4-4-VE800** 265975		**NZMH4-4-VE800** 265987		**NZML4-4-VE800** 283233			
800	400 – 800	250 – 500	1600 – 9600	800 – 8000	**NZMN4-4-VE800/500** 265976		**NZMH4-4-VE800/500** 265988		**NZML4-4-VE800/500** 283234			
800	400 – 800	–	1600 – 9600	800 – 8000	**NZMN4-4-VE800/0** 265977		**NZMH4-4-VE800/0** 265989		**NZML4-4-VE800/0** 283235			
1000	500 – 1000	500 – 1000	2000 – 12000	1000 – 10000	**NZMN4-4-VE1000** 265978		**NZMH4-4-VE1000** 265990		**NZML4-4-VE1000** 283236			
1000	500 – 1000	315 – 630	2000 – 12000	1000 – 10000	**NZMN4-4-VE1000/630** 265979		**NZMH4-4-VE1000/630** 265991		**NZML4-4-VE1000/630** 283237			
1000	500 – 1000	–	2000 – 12000	1000 – 10000	**NZMN4-4-VE1000/0** 265980		**NZMH4-4-VE1000/0** 265992		**NZML4-4-VE1000/0** 283238			
1250	630 – 1250	630 – 1250	2500 – 15000	1250 – 12500	**NZMN4-4-VE1250** 265981		**NZMH4-4-VE1250** 265993		**NZML4-4-VE1250** 283239			
1250	630 – 1250	400 – 800	2500 – 15000	1250 – 12500	**NZMN4-4-VE1250/800** 265982		**NZMH4-4-VE1250/800** 265994		**NZML4-4-VE1250/800** 283240			
1250	630 – 1250	–	2500 – 15000	1250 – 12500	**NZMN4-4-VE1250/0** 265983		**NZMH4-4-VE1250/0** 265995		**NZML4-4-VE1250/0** 283241			
1600	800 – 1600	800 – 1600	3200 – 19200	1600 – 16000	**NZMN4-4-VE1600** 265984		**NZMH4-4-VE1600** 265996		**NZML4-4-VE1600** 283242			
1600	800 – 1600	500 – 1000	3200 – 19200	1600 – 16000	**NZMN4-4-VE1600/1000** 265985		**NZMH4-4-VE1600/1000** 265997		**NZML4-4-VE1600/1000** 283243			
1600	800 – 1600	–	3200 – 19200	1600 – 16000	**NZMN4-4-VE1600/0** 265986		**NZMH4-4-VE1600/0** 265998		**NZML4-4-VE1600/0** 283244			







Notes Notes for terminals → 99

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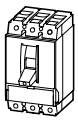
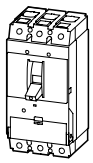
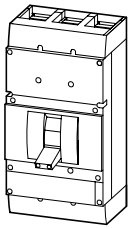
	Rated current = rated uninterrupted current $I_n = I_u$ A	Short-circuit protection max. fuse gL-characteristic A gL	2 switch positions I , 0; cannot be tripped remotely. **Part no.** Article no.	**Price** see price list	3 switch positions I , +, 0 ; can be tripped remotely with undervoltage and shunt release. **Part no.** Article no.	**Price** see price list	Std. pack
Switch-disconnectors							
3 pole							
Terminals standard, terminal screws as accessories							
	63	125	**PN1-63** 259140		**N1-63** 259143		1 off
	100	125	**PN1-100** 259141		**N1-100** 259144		
	125	125	**PN1-125** 259142		**N1-125** 259145		
	160	160	**PN1-160** 281235		**N1-160** 281236		
Terminal screws standard, terminals as accessories							
	160	250	**PN2-160** 266005		**N2-160** 266008		1 off
	200	250	**PN2-200** 266006		**N2-200** 266009		
	250	250	**PN2-250** 266007		**N2-250** 266010		
	400	630	**PN3-400** 266017		**N3-400** 266019		
	630	630	**PN3-630** 266018		**N3-630** 266020		
	800	1600			**N4-800** 266025		
	1000	1600			**N4-1000** 266026		
	1250	1600			**N4-1250** 266027		
	1600	1600			**N4-1600** 266028		

Notes

Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113
Isolating characteristics to IEC/EN 60947-3 and VDE 0660
Protection against accidental contact according to IEC 100
With the switch-disconnector N additional voltage releases NZM...-XU, NZM...-XA and trip-indicating auxiliary contacts (HIA) can be used.

N2..., N3... and N4... can also be combined with the NZM...-XR... remote operator.

Notes for terminals → 95

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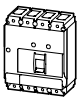
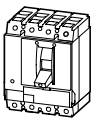
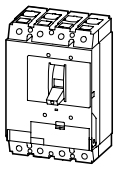
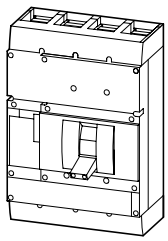
Moeller SK1230-1157GB-INT

	Rated current = rated uninterrupted current $I_n = I_u$ A	Short-circuit protection max. fuse gL-characteristic A gL	2 switch positions I , 0; cannot be tripped remotely **Part no.** Article no.	**Price** see price list	3 switch positions I , +, 0 ; can be tripped remotely with undervoltage and shunt release. **Part no.** Article no.	**Price** see price list	Std. pack
Switch-disconnectors							
4 pole							
Terminals standard, terminal screws as accessories							
	63	125	**PN1-4-63** 265999		**N1-4-63** 266002		1 off
	100	125	**PN1-4-100** 266000		**N1-4-100** 266003		
	125	125	**PN1-4-125** 266001		**N1-4-125** 266004		
	160	160	**PN1-4-160** 281253		**N1-4-160** 281254		
Terminal screws standard, terminals as accessories							
	160	250	**PN2-4-160** 266011		**N2-4-160** 266014		1 off
	200	250	**PN2-4-200** 266012		**N2-4-200** 266015		
	250	250	**PN2-4-250** 266013		**N2-4-250** 266016		
	400	630	**PN3-4-400** 266021		**N3-4-400** 266023		
	630	630	**PN3-4-630** 266022		**N3-4-630** 266024		
	800	1600			**N4-4-800** 266029		
	1000	1600			**N4-4-1000** 266030		
	1250	1600			**N4-4-1250** 266031		
	1600	1600			**N4-4-1600** 266032		

Notes

Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113
Isolating characteristics to IEC/EN 60947-3 and VDE 0660
Protection against accidental contact according to IEC 100
With the switch-disconnector N additional voltage releases NZM...-XU, NZM...-XA and trip-indicating auxiliary contacts (HIA) can be used.

N2..., N3... and N4... can also be combined with the NZM...-XR... remote operator.

Notes for terminals → 95

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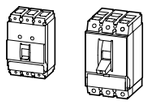
Circuit-breakers

UL/CSA approved to UL 489, CSA 22.2 No. 5.1 and to IEC/EN 60947

With main switch characteristics to IEC/EN 60204 and isolating characteristics to IEC/EN 60947, VDE 0660

Rated uninterrupted current I_u = Rated current I_n
Adjustable overload releases I_r
Adjustable short-circuit releases I_i
Delayed short-circuit releases I_{sd}



Thermomagnetic releases

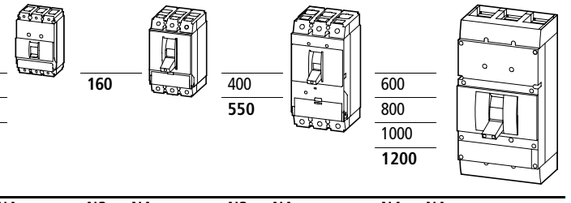
Overload releases									
Fixed			Adjustable				Without		
I_u			I_u		I_r		I_u		
A			A		A		A		
NZM1		NZM2	NZM1	NZM2			NZM1	NZM2	
15 – **125**			15 – **250**	20 – **125**	20 – **250**	1.2 – 1 × I_n	1.2 – **100**	1.6 – **200**	

Basic switching capacity[1]			**NZMB1-...-NA**		**NZMB2-...-NA**					
NEMA Test Procedure	240 V 60 Hz	sym. rms kA	35		35					
	480 V 60 Hz	sym. rms kA	25[2]		25					
	600 V 60 Hz	sym. rms kA	–		18					
IEC/EN 60947	400/415 V	kA/cos φ	25	0.25	25	0.25				
	440 V	kA/cos φ	25	0.25	25	0.25				
	525 V	kA/cos φ	15	0.30	15	0.30				
Normal switching capacity[1]			**NZMN1-...-NA**		**NZMN2-...-NA**					
NEMA Test Procedure	240 V 60 Hz	sym. rms kA	85		85					
	480 V 60 Hz	sym. rms kA	35[2]		35					
	600 V 60 Hz	sym. rms kA	–		25					
IEC/EN 60947	400/415 V	kA/cos φ	50	0.25	50	0.25				
	440 V	kA/cos φ	35	0.25	35	0.25				
	525 V	kA/cos φ	20	0.30	25	0.25				
	690 V	kA/cos φ	10	0.50	20	0.30				
High switching capacity[1]					**NZMH2-...-NA**					
NEMA Test Procedure	240 V 60 Hz	sym. rms kA			100					
	480 V 60 Hz	sym. rms kA			65					
	600 V 60 Hz	sym. rms kA			35					
IEC/EN 60947	400/415 V	kA/cos φ			100	0.20				
	440 V	kA/cos φ			65	0.20				
	525 V	kA/cos φ			40	0.25				
	690 V	kA/cos φ			20	0.30				
Limiter switching capacity[1]					**NZML2-...-NA**					
NEMA Test Procedure	240 V 60 Hz	sym. rms kA			150					
	480 V 60 Hz	sym. rms kA			100					
	600 V 60 Hz	sym. rms kA			50					
IEC/EN 60947	400/415 V	kA/cos φ			150	0.20				
	440 V	kA/cos φ			130	0.20				
	525 V	kA/cos φ			50	0.25				
	690 V	kA/cos φ			20	0.30				

Notes
[1] Breakers conform to UL/CSA as well as the IEC regulations
IEC switching performance values are contained on the rating plate. ⟶ Technical data
[2] for NZM...1-...-NA > 50 A 480Y/277V

Switch-disconnector: UL/CSA approved to UL 489, CSA 22.2 No. 5.1 and to IEC/EN 60947

With main switch characteristics to IEC/EN 60204 and VDE 0113
isolating characteristics to IEC/EN 60947-3 and VDE 0660.
without overload and short-circuit releases
Rated uninterrupted current $I_u = I_n$



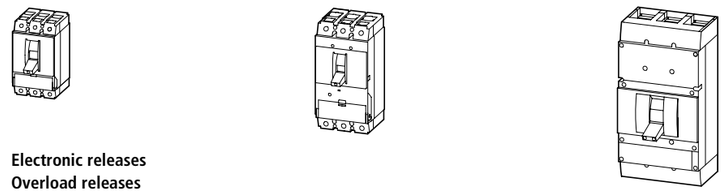
63
100
125

160

400
550

600
800
1000
1200

		N1-...-NA	**N2-...-NA**	**N3-...-NA**	**N4-...-NA**
Rated short-circuit making capacity I_{cm}	kA	2.8	5.5	25	53
Rated short-time withstand current I_{cw} (1s current$_{rms}$)	kA	2	3,5	12	25



Electronic releases

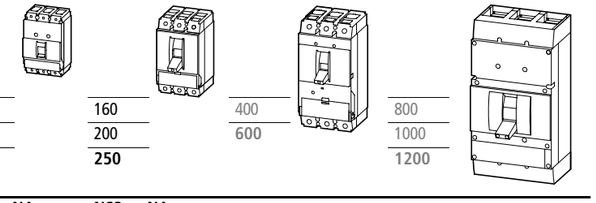
Overload releases															
Fixed	Adjustable			Without	Fixed	Adjustable			Without	Fixed	Adjustable			**Short-circuit releases** System protection			Motor protection
I_u	I_u	I_r		I_u	I_u	I_u	I_r		I_u	I_u	I_u	I_r		I_{sd}	I_i		I_i
A	A	A		A	A	A	A		A	A	A	A		A	A		A
150 – **250**	100 – **250**	0.5 – 1 × I_n		90 – **220**	250 – **600**	250 – **600**	0.5 – 1 × I_n		220 – **450**	600 – **1200**	800 – **1200**	0.5 – 1 × I_n		2 – 10 × I_r	2 – 12 × I_n		2 – 14 × I_n

NZMN2-...E...-NA				**NZMN3-...E...-NA**				**NZMN4-...E...-NA**									
85				85				85									
35				42				42									
25				35				35									
50	0.25			50	0.25			50	0.25								
35	0.25			35	0.25			35	0.25								
25	0.25			25	0.25			25	0.25								
20	0.30			20	0.30			20	0.30								
NZMH2-...E...-NA				**NZMH3-...E...-NA**				**NZMH4-...E...-NA**									
100				100				100									
65				65				65									
35				42				42									
100	0.20			100	0.20			100	0.20								
65	0.20			65	0.20			65	0.20								
40	0.25			45	0.25			40	0.25								
20	0.30			25	0.30			35	0.30								
NZML2-...E...-NA				**NZML3-...E...-NA**				**NZML4-...E...-NA**									
150				150				125									
100				100				85									
50				50				50									
150	0.20			150	0.20			100	0.20								
130	0.20			130	0.20			85	0.20								
50	0.25			65	0.25			65	0.25								
20	0.30			35	0.30			50	0.30								

The approved switches are suitable for world-wide use. The UL and CSA certificates can be found at www.ul.com and www.csa.com
UL Certificates: file no.: E 31593 (NZM1-4), E 148671 (N(S)1-4)
CSA certificates: file no. 165628 (NZM1-4)

Molded case switch UL/CSA approved to UL 489, CSA 22.2 No. 5.1 and to IEC/EN 60947-2, Annex L

With main switch characteristics to IEC/EN 60204 and VDE 0113
Isolating characteristics to IEC/EN 60947
without overcurrent protection
Rated uninterrupted current $I_u = I_n$
Values printed in grey available on request



63
100
125

160
200
250

400
600

800
1000
1200

Switching capacity		**NS1-...-NA**	**NS2-...-NA**
to UL 489, CSA 22.2 No. 5.1	240 V	85	150
	480 V	35	100
	600 V	–	50
IEC/EN 60947	400/415 V	50	150
	440 V	35	130
	525 V	20	50
	690	10	20

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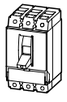
Circuit-breakers, switch-disconnectors up to 1600 A

Moeller SK1230-1157GB-INT

	Rated current = rated uninterrupted current	Setting range Overload releases	Short-circuit releases	Basic switching capacity 35 kA 240 V 25 kA 480 V[1] 18 kA 600 V[2] Part no. Article no.	Price see price list	Normal switching capacity 85 kA 240 V 35 kA 480 V[1] 25 kA 600 V[2] Part no. Article no.	Price see price list	High switching capacity 100 kA 240 V 65 kA 480 V 35 kA 600 V Part no. Article no.	Price see price list	Limiter switching capacity 150 kA 240 V 100 kA 480 V 50 kA 600 V Part no. Article no.	Price see price list	Std. pack	Notes
	$I_n = I_u$ A	I_r A	I_i A										
Protection of systems and cables													
3-pole													
Fixed overload releases Terminals standard terminal screw as accessories													
	15	15	350	**NZMB1-AF15-NA** 281553		**NZMN1-AF15-NA** 281564						1 off	Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. UL 489, CSA-C22.2-5.1, IEC/EN 60947-2 Fixed overload releases I_r Adjustable short-circuit release I_i • Approx. 6 – 10 × I_n (ex-factory 6 × I_n) – NZM...-AF35/40-NA: approx. 8 – 10 × I_n Fixed short-circuit releases I_i • 350 A at I_n = 15 – 30A [1] For basic switching capacity 25 kA 480 V and normal switching capacity 35 kA 480 V the following applies: for NZM...-1-...-NA: 480Y/277 V AC from 60 A.
	20	20	350	**NZMB1-AF20-NA** 281554		**NZMN1-AF20-NA** 281565							
	25	25	350	**NZMB1-AF25-NA** 281555		**NZMN1-AF25-NA** 281566							
	30	30	350	**NZMB1-AF30-NA** 281556		**NZMN1-AF30-NA** 281567							
	35	35	320 – 400	**NZMB1-AF35-NA** 272204		**NZMN1-AF35-NA** 274220							
	40	40	320 – 400	**NZMB1-AF40-NA** 272205		**NZMN1-AF40-NA** 274223							
	45	45	300 – 500	**NZMB1-AF45-NA** 272206		**NZMN1-AF45-NA** 274230							
	50	50	300 – 500	**NZMB1-AF50-NA** 272207		**NZMN1-AF50-NA** 274231							
	60	60	380 – 630	**NZMB1-AF60-NA** 272208		**NZMN1-AF60-NA** 274232							
	70	70	480 – 800	**NZMB1-AF70-NA** 272209		**NZMN1-AF70-NA** 274233							
	80	80	480 – 800	**NZMB1-AF80-NA** 272250		**NZMN1-AF80-NA** 274234							
	90	90	600 – 1000	**NZMB1-AF90-NA** 272251		**NZMN1-AF90-NA** 274235							
	100	100	600 – 1000	**NZMB1-AF100-NA** 272252		**NZMN1-AF100-NA** 274236							
	110	110	750 – 1250	**NZMB1-AF110-NA** 281557		**NZMN1-AF110-NA** 281568							
	125	125	750 – 1250	**NZMB1-AF125-NA** 281558		**NZMN1-AF125-NA** 281569							
Terminal screws standard terminals as accessories													
	15	15	350	**NZMB2-AF15-NA** 269142		**NZMN2-AF15-NA** 269170		**NZMH2-AF15-NA** 269188		**NZML2-AF15-NA** 102508		1 off	Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. UL 489, CSA-C22.2-5.1, IEC/EN 60947-2 Fixed overload releases I_r Adjustable short-circuit release I_i • Approx. 6 – 10 × I_n (ex-factory 6 × I_n) – NZM...-AF35/40-NA: approx. 8 – 10 × I_n Fixed short-circuit releases I_i • 350 A at I_n = 15 – 30A [2] For basic switching capacity 18 kA 600 V and normal switching capacity 25 kA 600 V the following applies: for NZM2.
	20	20	350	**NZMB2-AF20-NA** 269143		**NZMN2-AF20-NA** 269171		**NZMH2-AF20-NA** 269189		**NZML2-AF20-NA** 102509			
	25	25	350	**NZMB2-AF25-NA** 269144		**NZMN2-AF25-NA** 269172		**NZMH2-AF25-NA** 269190		**NZML2-AF25-NA** 102510			
	30	30	350	**NZMB2-AF30-NA** 269145		**NZMN2-AF30-NA** 269173		**NZMH2-AF30-NA** 269191		**NZML2-AF30-NA** 102511			
	35	35	320 – 400	**NZMB2-AF35-NA** 269146		**NZMN2-AF35-NA** 269174		**NZMH2-AF35-NA** 269192		**NZML2-AF35-NA** 102512			
	40	40	320 – 400	**NZMB2-AF40-NA** 269147		**NZMN2-AF40-NA** 269175		**NZMH2-AF40-NA** 269193		**NZML2-AF40-NA** 102513			
	45	45	300 – 500	**NZMB2-AF45-NA** 269148		**NZMN2-AF45-NA** 269176		**NZMH2-AF45-NA** 269194		**NZML2-AF45-NA** 102514			
	50	50	300 – 500	**NZMB2-AF50-NA** 269149		**NZMN2-AF50-NA** 269177		**NZMH2-AF50-NA** 269195		**NZML2-AF50-NA** 102515			
	60	60	380 – 630	**NZMB2-AF60-NA** 269160		**NZMN2-AF60-NA** 269178		**NZMH2-AF60-NA** 269196		**NZML2-AF60-NA** 102516			
	70	70	480 – 800	**NZMB2-AF70-NA** 269161		**NZMN2-AF70-NA** 269179		**NZMH2-AF70-NA** 269197		**NZML2-AF70-NA** 102517			
	80	80	480 – 800	**NZMB2-AF80-NA** 269162		**NZMN2-AF80-NA** 269180		**NZMH2-AF80-NA** 269198		**NZML2-AF80-NA** 102518			
	90	90	600 – 1000	**NZMB2-AF90-NA** 269163		**NZMN2-AF90-NA** 269181		**NZMH2-AF90-NA** 269199		**NZML2-AF90-NA** 102519			
	100	100	600 – 1000	**NZMB2-AF100-NA** 269164		**NZMN2-AF100-NA** 269182		**NZMH2-AF100-NA** 269200		**NZML2-AF100-NA** 102520			

Notes Notes for terminals → 95

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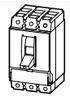
Circuit-breakers, switch-disconnectors up to 1600 A

	Rated current = rated uninterrupted current	**Setting range** Overload releases	Short-circuit releases	Basic switching capacity **35 kA 240 V** **25 kA 480 V**[1] **18 kA 600 V**[2] **Part no.** Article no.	**Price** see price list	Normal switching capacity **85 kA 240 V** **35 kA 480 V**[1] **25 kA 600 V**[2] **Part no.** Article no.	**Price** see price list	High switching capacity **100 kA 240 V** **65 kA 480 V** **35 kA 600 V** **Part no.** Article no.	**Price** see price list	Limiter switching capacity **150 kA 240 V** **100 kA 480 V** **50 kA 600 V** **Part no.** Article no.	**Price** see price list	Std. pack	**Notes**
	$I_n = I_u$ A	I_r A	I_i A										
Protection of systems and cables													
3-pole													
Fixed overload releases Terminal screws standard terminals as accessories													
	110	110	750 – 1250	**NZMB2-AF110-NA** 269165		**NZMN2-AF110-NA** 269183		**NZMH2-AF110-NA** 269201		**NZML2-AF110-NA** 102521		1 off	Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. UL 489, CSA-C22.2-5.1, IEC/EN 60947-2 Fixed overload releases I_r Adjustable short-circuit release I_i • Approx. 6 – 10 × I_n (ex-factory 6 × I_n) – NZM...-AF35/40-NA: approx. 8 – 10 × I_n Fixed short-circuit releases I_i • 350 A at I_n = 15 – 30A [2] For basic switching capacity 18 kA 600 V and normal switching capacity 25 kA 600 V the following applies: for NZM2.
	125	125	750 – 1250	**NZMB2-AF125-NA** 269166		**NZMN2-AF125-NA** 269184		**NZMH2-AF125-NA** 269202		**NZML2-AF125-NA** 102522			
	150	150	960 – 1600	**NZMB2-AF150-NA** 269167		**NZMN2-AF150-NA** 269185		**NZMH2-AF150-NA** 269203		**NZML2-AF150-NA** 102523			
	175	175	1200 – 2000	**NZMB2-AF175-NA** 269168		**NZMN2-AF175-NA** 269186		**NZMH2-AF175-NA** 269204		**NZML2-AF175-NA** 102524			
	200	200	1200 – 2000	**NZMB2-AF200-NA** 269169		**NZMN2-AF200-NA** 269187		**NZMH2-AF200-NA** 269205		**NZML2-AF200-NA** 102525			
	225	225	1500 – 2500	**NZMB2-AF225-NA** 271089		**NZMN2-AF225-NA** 271101		**NZMH2-AF225-NA** 271103		**NZML2-AF225-NA** 102526			
	250	250	1500 – 2500	**NZMB2-AF250-NA** 271100		**NZMN2-AF250-NA** 271102		**NZMH2-AF250-NA** 271104		**NZML2-AF250-NA** 102527			
Adjustable overload releases Terminals standard terminal screw as accessories													
	20	15 – 20	350	**NZMB1-A20-NA** 281559		**NZMN1-A20-NA** 281570						1 off	Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. UL 489, calibration to UL 508, CSA-C22.2-5.1, IEC/EN 60947-2 Use in motor control circuits only in conjunction with a suitable contactor. Adjustable overload release I_r • 0.8 – 1 × I_n (ex-factory 0.8 × I_n) Adjustable short-circuit release I_i • 6 – 10 × I_n (ex-factory 6 × I_n) – NZM...-A40-NA: 8 – 10 × I_n Fixed short-circuit releases I_i • 350 A with I_n = 20 – 32 A [1] For basic switching capacity 25 kA 480 V and normal switching capacity 35 kA 480 V the following applies: for NZM...-1-...-NA: 480Y/277 V AC from 60 A.
	25	20 – 25	350	**NZMB1-A25-NA** 281560		**NZMN1-A25-NA** 281571							
	32	25 – 32	350	**NZMB1-A32-NA** 281561		**NZMN1-A32-NA** 281572							
	40	32 – 40	320 – 400	**NZMB1-A40-NA** 272253		**NZMN1-A40-NA** 274237							
	50	40 – 50	300 – 500	**NZMB1-A50-NA** 272254		**NZMN1-A50-NA** 274239							
	63	50 – 63	380 – 630	**NZMB1-A63-NA** 272255		**NZMN1-A63-NA** 274240							
	80	63 – 80	480 – 800	**NZMB1-A80-NA** 272256		**NZMN1-A80-NA** 274241							
	100	80 – 100	600 – 1000	**NZMB1-A100-NA** 272258		**NZMN1-A100-NA** 274242							
	125	100 – 125	750 – 1250	**NZMB1-A125-NA** 281562		**NZMN1-A125-NA** 281573							
Adjustable overload releases Terminal screws standard terminals as accessories													
	20	15 – 20	350	**NZMB2-A20-NA** 269206		**NZMN2-A20-NA** 269217		**NZMH2-A20-NA** 269228		**NZML2-A20-NA** 102528		1 off	Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. UL 489, calibration to UL 508, CSA-C22.2-5.1, IEC/EN 60947-2 Use in motor control circuits only in conjunction with a suitable contactor. Adjustable overload release I_r • 0.8 – 1 × I_n (ex-factory 0.8 × I_n) Adjustable short-circuit release I_i • 6 – 10 × I_n (ex-factory 6 × I_n) – NZM...-A40-NA: 8 – 10 × I_n Fixed short-circuit releases I_i • 350 A with I_n = 20 – 32 A [2] For basic switching capacity 18 kA 600 V and normal switchingcapacity 25 kA 600 V the following applies: for NZM2.
	25	20 – 25	350	**NZMB2-A25-NA** 269207		**NZMN2-A25-NA** 269218		**NZMH2-A25-NA** 269229		**NZML2-A25-NA** 102529			
	32	25 – 32	350	**NZMB2-A32-NA** 269208		**NZMN2-A32-NA** 269219		**NZMH2-A32-NA** 269230		**NZML2-A32-NA** 102530			
	40	32 – 40	320 – 400	**NZMB2-A40-NA** 269209		**NZMN2-A40-NA** 269220		**NZMH2-A40-NA** 269231		**NZML2-A40-NA** 102531			
	50	40 – 50	300 – 500	**NZMB2-A50-NA** 269210		**NZMN2-A50-NA** 269221		**NZMH2-A50-NA** 269232		**NZML2-A50-NA** 102532			
	63	50 – 63	380 – 630	**NZMB2-A63-NA** 269211		**NZMN2-A63-NA** 269222		**NZMH2-A63-NA** 269233		**NZML2-A63-NA** 102533			
	80	63 – 80	480 – 800	**NZMB2-A80-NA** 269212		**NZMN2-A80-NA** 269223		**NZMH2-A80-NA** 269234		**NZML2-A80-NA** 102534			
	100	80 – 100	600 – 1000	**NZMB2-A100-NA** 269213		**NZMN2-A100-NA** 269224		**NZMH2-A100-NA** 269235		**NZML2-A100-NA** 102535			
	125	100 – 125	750 – 1250	**NZMB2-A125-NA** 269214		**NZMN2-A125-NA** 269225		**NZMH2-A125-NA** 269236		**NZML2-A125-NA** 102536			
	160	125 – 160	960 – 1600	**NZMB2-A160-NA** 269215		**NZMN2-A160-NA** 269226		**NZMH2-A160-NA** 269237		**NZML2-A160-NA** 102537			
	200	160 – 200	1200 – 2000	**NZMB2-A200-NA** 269216		**NZMN2-A200-NA** 269227		**NZMH2-A200-NA** 269238		**NZML2-A200-NA** 102538			
	250	200 – 250	1500 – 2500	**NZMB2-A250-NA** 271105		**NZMN2-A250-NA** 271106		**NZMH2-A250-NA** 271107		**NZML2-A250-NA** 102539			

Notes Notes for terminals → 99

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Circuit-breakers, switch-disconnectors up to 1600 A

Moeller SK1230-1157GB-INT

	Rated current = rated uninterrupted current	Setting range Short-circuit releases	Basic switching capacity 480 V[1] Part no. Article no.	Price see price list	Normal switching capacity 480 V[1] Part no. Article no.	Price see price list	Std. pack
	$I_n = I_u$ A	I_i A $I>$					
Short-circuit protection							
Motor protection in conjunction with contactor and overload relay • With short-circuit release • Without overload release							
3 pole							
Terminals standard terminal screw as accessories							
	1.2	8 – 14	**NZMB1-S1,2-CNA** 102906		**NZMN1-S1,2-CNA** 103025		1 off
	2	12.8 – 22.4	**NZMB1-S2-CNA** 102907		**NZMN1-S2-CNA** 103026		
	3	19.2 – 33.6	**NZMB1-S3-CNA** 102908		**NZMN1-S3-CNA** 103027		
	5	32 – 56	**NZMB1-S5-CNA** 102909		**NZMN1-S5-CNA** 103028		
	8	48 – 84	**NZMB1-S8-CNA** 103020		**NZMN1-S8-CNA** 103029		
	12	80 – 140	**NZMB1-S12-CNA** 103021		**NZMN1-S12-CNA** 103030		
	18	128 – 224	**NZMB1-S18-CNA** 103022		**NZMN1-S18-CNA** 103031		
	26	200 – 350	**NZMB1-S26-CNA** 103023		**NZMN1-S26-CNA** 103032		
	33	256 – 448	**NZMB1-S33-CNA** 103024		**NZMN1-S33-CNA** 103033		
	40	320 – 560	**NZMB1-S40-CNA** 281263		**NZMN1-S40-CNA** 281276		
	50	400 – 700	**NZMB1-S50-CNA** 281264		**NZMN1-S50-CNA** 281277		
	63	504 – 882	**NZMB1-S63-CNA** 281265		**NZMN1-S63-CNA** 281278		
	80	640 – 1120	**NZMB1-S80-CNA** 281266		**NZMN1-S80-CNA** 281279		
	100	800 – 1250	**NZMB1-S100-CNA** 281267		**NZMN1-S100-CNA** 281280		

Notes Notes for terminals → 95

Notes

Switches conform to UL/CSA as well as the IEC regulations.
40 IEC switching performance values from 40 A are contained on the rating plate.
UL 489, CSA-C22.2-5.1, IEC/EN 60947-4-1

Adjustable short-circuit release I_i
- 8 – 14 × I_n (ex-factory 12 × I_n)
  - NZM...1-S1,2 – 33-CNA: approx. 8 – 14 × I_n
  - NZM...1-S100-CNA: 8 – 12.5 × I_n (ex-factory 12 × I_n)

Without overload release I_r

CNA: The device has components approved to UL, the conditions of approval must be observed during use.
i.e. the device must be combined with a suitable contactor and overload relay.
A switching capacity is stated for the complete motor-starter combination.
The device is approved as a CSA approved single device.

[1] 480 Y/277 V AC from 60 A.

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Circuit-breakers, switch-disconnectors up to 1600 A

Rated current = rated uninterrupted current	Setting range	Basic switching capacity 480 V 600 V		Normal switching capacity 480 V 600 V		High switching capacity 480 V 600 V		Limiter switching capacity 480 V 600 V		Std. pack	Notes
	Short-circuit releases	Part no. Article no.	Price see price list	Part no. Article no.	Price see price list	Part no. Article no.	Price see price list	Part no. Article no.	Price see price list		
$I_n = I_u$ A	I_i A $I>$										
Short-circuit protection											
Motor protection in conjunction with contactor and overload relay • With short-circuit release • Without overload release											
3 pole											
Terminal screws standard terminals as accessories											
1.6	12.8 – 22.4	**NZMB2-S1,6-CNA** 269472		**NZMN2-S1,6-CNA** 269478		**NZMH2-S1,6-CNA** 269482		**NZML2-S1,6-CNA** 102491		1 off	Switches conform to UL/CSA as well as the IEC regulations. 40 IEC switching performance values from 40 A are contained on the rating plate. UL 489, CSA-C22.2-5.1, IEC/EN 60947-4-1 • NZM...2-S250-CNA: IEC/EN 60947-2 Adjustable short-circuit release I_i • 8 – 14 × I_n (ex-factory 12 × I_n) – NZM...2-S5 – 33-CNA: approx. 6 – 10 × I_n (ex-factory 10 × I_n) – NZM...2-S250-CNA: 8 – 10 × I_n (ex-factory 10 × I_n) Without overload release I_r CNA: The device has components approved to UL, the conditions of approval must be observed during use. i.e. the device must be combined with a suitable contactor and overload relay. A switching capacity is stated for the complete motor-starter combination. The device is approved as a CSA approved single device.
2.4	19.2 – 33.6	**NZMB2-S2,4-CNA** 269473		**NZMN2-S2,4-CNA** 269479		**NZMH2-S2,4-CNA** 269483		**NZML2-S2,4-CNA** 102492			
5	32 – 56	**NZMB2-S5-CNA** 103034		**NZMN2-S5-CNA** 103040		**NZMH2-S5-CNA** 103046		**NZML2-S5-CNA** 103052			
8	48 – 84	**NZMB2-S8-CNA** 103035		**NZMN2-S8-CNA** 103041		**NZMH2-S8-CNA** 103047		**NZML2-S8-CNA** 103053			
12	80 – 140	**NZMB2-S12-CNA** 103036		**NZMN2-S12-CNA** 103042		**NZMH2-S12-CNA** 103048		**NZML2-S12-CNA** 103054			
18	128 – 224	**NZMB2-S18-CNA** 103037		**NZMN2-S18-CNA** 103043		**NZMH2-S18-CNA** 103049		**NZML2-S18-CNA** 103055			
26	200 – 350	**NZMB2-S26-CNA** 103038		**NZMN2-S26-CNA** 103044		**NZMH2-S26-CNA** 103050		**NZML2-S26-CNA** 103056			
33	256 – 448	**NZMB2-S33-CNA** 103039		**NZMN2-S33-CNA** 103045		**NZMH2-S33-CNA** 103051		**NZML2-S33-CNA** 103057			
40	320 – 560	**NZMB2-S40-CNA** 269243		**NZMN2-S40-CNA** 269255		**NZMH2-S40-CNA** 269267		**NZML2-S40-CNA** 102499			
50	400 – 700	**NZMB2-S50-CNA** 269244		**NZMN2-S50-CNA** 269256		**NZMH2-S50-CNA** 269268		**NZML2-S50-CNA** 102500			
63	504 – 882	**NZMB2-S63-CNA** 269245		**NZMN2-S63-CNA** 269257		**NZMH2-S63-CNA** 269269		**NZML2-S63-CNA** 102501			
80	640 – 1120	**NZMB2-S80-CNA** 269246		**NZMN2-S80-CNA** 269258		**NZMH2-S80-CNA** 269270		**NZML2-S80-CNA** 102502			
100	800 – 1400	**NZMB2-S100-CNA** 269247		**NZMN2-S100-CNA** 269259		**NZMH2-S100-CNA** 269271		**NZML2-S100-CNA** 102503			
125	1000 – 1750	**NZMB2-S125-CNA** 269248		**NZMN2-S125-CNA** 269260		**NZMH2-S125-CNA** 269272		**NZML2-S125-CNA** 102504			
160	1280 – 2240	**NZMB2-S160-CNA** 269249		**NZMN2-S160-CNA** 269261		**NZMH2-S160-CNA** 269273		**NZML2-S160-CNA** 102505			
200	1600 – 2500	**NZMB2-S200-CNA** 269250		**NZMN2-S200-CNA** 269262		**NZMH2-S200-CNA** 269274		**NZML2-S200-CNA** 102506			
250	2000 – 2500	**NZMB2-S250-CNA** 102478		**NZMN2-S250-CNA** 102479		**NZMH2-S250-CNA** 102490		**NZML2-S250-CNA** 102507			

Notes Notes for terminals → 99

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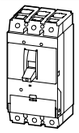
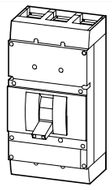
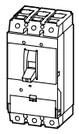
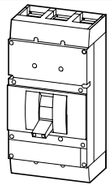
	Rated current = rated uninterrupted current	Setting range Overload releases	Short-circuit releases	Normal switching capacity 85 kA 240 V 42 kA 480 V 35 kA 600 V		High switching capacity 100 kA 240 V 65 kA 480 V 42 kA 600 V		Limiter switching capacity 125 kA/150 kA 240 V 100 kA 480 V[1] 50 kA 600 V		Std. pack	Notes
			Non-delayed	Part no. Article no.	Price see price list	Part no. Article no.	Price see price list	Part no. Article no.	Price see price list		
	$I_n = I_u$ A	I_r A	I_i A								
Protection of systems and cables											
3 pole											
Fixed overload releases Terminal screws standard terminals as accessories											
	250	250	500 – 2750	**NZMN3-AEF250-NA** 269275		**NZMH3-AEF250-NA** 269283		**NZML3-AEF250-NA** 269291		1 off	Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. UL 489, CSA-C22.2-5.1, IEC/EN 60947-2 Fixed overload releases I_r R.m.s. value measurement and "thermal memory" Adjustable short-circuit release I_i • With NZM...3-AEF250...400-NA: 2 – 11 × I_n (ex-factory 6 × I_n) • With NZM...3-AEF450...600-NA: 2 – 8 × I_n (ex-factory 6 × I_n) • With NZM...4-AEF...-NA: 2 – 12× I_n (ex-factory 6 × I_n) [1] For limiter switching capacity with NZML4, the following applies: 85 kA/480 V
	300	300	600 – 3300	**NZMN3-AEF300-NA** 269276		**NZMH3-AEF300-NA** 269284		**NZML3-AEF300-NA** 269292			
	350	350	700 – 3850	**NZMN3-AEF350-NA** 269277		**NZMH3-AEF350-NA** 269285		**NZML3-AEF350-NA** 269293			
	400	400	800 – 4400	**NZMN3-AEF400-NA** 269278		**NZMH3-AEF400-NA** 269286		**NZML3-AEF400-NA** 269294			
	450	450	900 – 3600	**NZMN3-AEF450-NA** 269279		**NZMH3-AEF450-NA** 269287		**NZML3-AEF450-NA** 269295			
	500	500	1000 – 4000	**NZMN3-AEF500-NA** 269280		**NZMH3-AEF500-NA** 269288		**NZML3-AEF500-NA** 269296			
	550	550	1100 – 4400	**NZMN3-AEF550-NA** 269281		**NZMH3-AEF550-NA** 269289		**NZML3-AEF550-NA** 269297			
	600	600	1200 – 4800	**NZMN3-AEF600-NA** 269282		**NZMH3-AEF600-NA** 269290		**NZML3-AEF600-NA** 269298			
	600	600	1200 – 7200	**NZMN4-AEF600-NA** 271108		**NZMH4-AEF600-NA** 271114		**NZML4-AEF600-NA** 271092			
	700	700	1400 – 8400	**NZMN4-AEF700-NA** 271109		**NZMH4-AEF700-NA** 271115		**NZML4-AEF700-NA** 271093			
	800	800	1600 – 9600	**NZMN4-AEF800-NA** 271110		**NZMH4-AEF800-NA** 271116		**NZML4-AEF800-NA** 271094			
	900	900	1800 – 10800	**NZMN4-AEF900-NA** 271111		**NZMH4-AEF900-NA** 271117		**NZML4-AEF900-NA** 271095			
	1000	1000	2000 – 12000	**NZMN4-AEF1000-NA** 271112		**NZMH4-AEF1000-NA** 271118		**NZML4-AEF1000-NA** 271096			
	1200	1200	2400 – 14400	**NZMN4-AEF1200-NA** 271113		**NZMH4-AEF1200-NA** 271119		**NZML4-AEF1200-NA** 271097			
3 pole											
Adjustable overload releases Terminal screws standard terminals as accessories											
	250	125 – 250	500 – 2750	**NZMN3-AE250-NA** 269299		**NZMH3-AE250-NA** 269302		**NZML3-AE250-NA** 269305		1 off	Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. UL 489, CSA-C22.2-5.1, IEC/EN 60947-2 Use in motor control circuits only in conjunction with a suitable contactor. Adjustable overload release I_r • 0.5 – 1 × I_n (ex-factory 0.8 × I_n) R.m.s. value measurement and "thermal memory" Adjustable short-circuit release I_i • With NZM...3-AE250/400-NA: 2 – 11 × I_n (ex-factory 6 × I_n) • With NZM...3-AE600-NA: 2 – 8 × I_n (ex-factory 6 × I_n) • With NZM...4-AE...-NA: 2 – 12 × I_n (ex-factory 6 × I_n) [1] For limiter switching capacity with NZML4, the following applies: 85 kA/480 V
	400	200 – 400	800 – 4400	**NZMN3-AE400-NA** 269300		**NZMH3-AE400-NA** 269303		**NZML3-AE400-NA** 269306			
	600	300 – 600	1200 – 4800	**NZMN3-AE600-NA** 269301		**NZMH3-AE600-NA** 269304		**NZML3-AE600-NA** 269307			
	800	400 – 800	1600 – 9600	**NZMN4-AE800-NA** 271120		**NZMH4-AE800-NA** 271123		**NZML4-AE800-NA** 271098			
	1000	500 – 1000	2000 – 12000	**NZMN4-AE1000-NA** 271121		**NZMH4-AE1000-NA** 271124		**NZML4-AE1000-NA** 271099			
	1200	600 – 1200	2400 – 14400	**NZMN4-AE1200-NA** 271122		**NZMH4-AE1200-NA** 271125		**NZML4-AE1200-NA** 271210			

Notes Notes for terminals → 99

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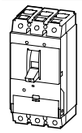
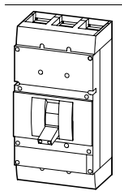
Moeller SK1230-1157GB-INT

Circuit-breakers, switch-disconnectors up to 1600 A

	Rated current = rated uninterrupted current	Setting range: Overload releases	Short-circuit releases: Non-delayed	Short-circuit releases: Delayed	Normal switching capacity 42 kA 480 V[1] 35 kA 600 V[2] Part no. Article no.	Price see price list	High switching capacity 65 kA 480 V 42 kA 600 V[3] Part no. Article no.	Price see price list	Limiter switching capacity 100 kA 480 V[4] 50 kA 600 V Part no. Article no.	Price see price list	Std. pack	Notes
	$I_n = I_u$ A	I_r A	I_i A	I_{sd} A								
Systems, cable, transformer and generator protection												
3 pole												
Fixed overload releases Terminal screws standard, terminals as accessories												
	150	150	1800	300 – 1500	**NZMN2-VEF150-NA** 271126		**NZMH2-VEF150-NA** 271131		**NZML2-VEF150-NA** 271211		1 off	Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. UL 489, CSA-C22.2-5.1, IEC/EN 60947-2 Fixed overload releases I_r R.m.s. value measurement and 'thermal memory' Adjustable time delay setting to overcome current peaks t_r • 2 – 20 s with 6 × I_r (ex-factory 10 s) Adjustable delayed short-circuit releases I_{sd} • 2 – 10 × I_r (ex-factory 6 × I_r) – NZM...3-VEF450...600-NA: 1.5 – 7 × I_r (ex-factory 6 x I_r) Adjustable delay time t_{sd} • Steps 0, 20, 60, 100, 200, 300, 500, 750, 1000 ms (ex-factory 0 ms) Adjustable non-delayed short-circuit releases I_i • NZM2 fixed 12 × I_n • NZM...3-VEF250...400-NA: 2 – 11 × I_n (ex-factory 11 × I_n) • NZM...3-VEF450...600-NA: 2 – 8 × I_n (ex-factory 8 × I_n) • NZM...4-VEF...-NA: 2 – 12 × I_n (ex-factory 12 × I_n) i^2t constant function • NZM2 fixed OFF • NZM3, NZM4 switched (ex-factory OFF) [1] For normal switching capacity with NZMN2-...-NA, the following applies: 35 kA/480 V [2] For normal switching capacity with NZMN2-...-NA, the following applies: 25 kA/600 V [3] For high switching capacity with NZMH2-...-NA, the following applies: 35 kA/600 V [4] For limiter switching capacity with NZML4-...-NA, the following applies: 85 kA/480 V
	175	175	2100	350 – 1750	**NZMN2-VEF175-NA** 271127		**NZMH2-VEF175-NA** 271132		**NZML2-VEF175-NA** 271212			
	200	200	2400	400 – 2000	**NZMN2-VEF200-NA** 271128		**NZMH2-VEF200-NA** 271133		**NZML2-VEF200-NA** 271213			
	225	225	2700	450 – 2250	**NZMN2-VEF225-NA** 271129		**NZMH2-VEF225-NA** 271134		**NZML2-VEF225-NA** 271214			
	250	250	3000	500 – 2500	**NZMN2-VEF250-NA** 271130		**NZMH2-VEF250-NA** 271135		**NZML2-VEF250-NA** 271215			
	250	250	500 – 2750	500 – 2500	**NZMN3-VEF250-NA** 269308		**NZMH3-VEF250-NA** 269316		**NZML3-VEF250-NA** 269324			
	300	300	600 – 3300	600 – 3000	**NZMN3-VEF300-NA** 269309		**NZMH3-VEF300-NA** 269317		**NZML3-VEF300-NA** 269325			
	350	350	700 – 3850	700 – 3500	**NZMN3-VEF350-NA** 269310		**NZMH3-VEF350-NA** 269318		**NZML3-VEF350-NA** 269326			
	400	400	800 – 4400	800 – 4000	**NZMN3-VEF400-NA** 269311		**NZMH3-VEF400-NA** 269319		**NZML3-VEF400-NA** 269327			
	450	450	900 – 3600	675 – 3150	**NZMN3-VEF450-NA** 269312		**NZMH3-VEF450-NA** 269320		**NZML3-VEF450-NA** 269328			
	500	500	1000 – 4000	750 – 3500	**NZMN3-VEF500-NA** 269313		**NZMH3-VEF500-NA** 269321		**NZML3-VEF500-NA** 269329			
	550	550	1100 – 4400	825 – 3850	**NZMN3-VEF550-NA** 269314		**NZMH3-VEF550-NA** 269322		**NZML3-VEF550-NA** 269330			
	600	600	1200 – 4800	900 – 4200	**NZMN3-VEF600-NA** 269315		**NZMH3-VEF600-NA** 269323		**NZML3-VEF600-NA** 269331			
	600	600	1200 – 7200	1200 – 6000	**NZMN4-VEF600-NA** 271136		**NZMH4-VEF600-NA** 271142		**NZML4-VEF600-NA** 271222			
	700	700	1400 – 8400	1400 – 7000	**NZMN4-VEF700-NA** 271137		**NZMH4-VEF700-NA** 271143		**NZML4-VEF700-NA** 271223			
	800	800	1600 – 9600	1600 – 8000	**NZMN4-VEF800-NA** 271138		**NZMH4-VEF800-NA** 271144		**NZML4-VEF800-NA** 271224			
	900	900	1800 – 10800	1800 – 9000	**NZMN4-VEF900-NA** 271139		**NZMH4-VEF900-NA** 271145		**NZML4-VEF900-NA** 271225			
	1000	1000	2000 – 12000	2000 – 10000	**NZMN4-VEF1000-NA** 271140		**NZMH4-VEF1000-NA** 271146		**NZML4-VEF1000-NA** 271226			
	1200	1200	2400 – 14400	2400 – 12000	**NZMN4-VEF1200-NA** 271141		**NZMH4-VEF1200-NA** 271147		**NZML4-VEF1200-NA** 271227			

Notes Notes for terminals → 99

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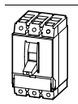
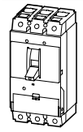
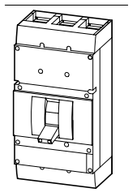
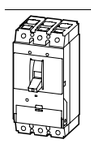
Moeller SK1230-1157GB-INT

	Rated current = rated uninterrupted current	Setting range Overload releases	Short-circuit releases		Normal switching capacity 42 kA 480 V[1] 35 kA 600 V[2]		High switching capacity 65 kA 480 V 42 kA 600 V[3]		Limiter switching capacity 100 kA 480 V[4] 50 kA 600 V		Std. pack	Notes
			Non-delayed	Delayed	Part no. Article no.	Price see price list	Part no. Article no.	Price see price list	Part no. Article no.	Price see price list		
	$I_n = I_u$ A	I_r A	I_i A	I_{sd} A								
Systems, cable, transformer and generator protection												
3 pole												
Adjustable overload releases Terminal screws standard terminals as accessories												
	100	50 – 100	1200	100 – 1000	**NZMN2-VE100-NA** 271148		**NZMH2-VE100-NA** 271151		**NZML2-VE100-NA** 271216		1 off	Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. UL 489, CSA-C22.2-5.1, IEC/EN 60947-2 Use in motor control circuits only in conjunction with a suitable contactor. Adjustable overload release I_r • 0.5 – 1 × I_n R.m.s. value measurement and "thermal memory" Adjustable time delay setting to overcome current peaks t_r • 2 – 20 s with 6 × I_r (ex-factory 10 s) Adjustable delayed short-circuit releases I_{sd} • 2 – 10 × I_r (ex-factory 6 × I_r) – NZM...3-VE600-NA: 1.5 – 7 × I_r (ex-factory 6 × I_r) Adjustable delay time t_{sd} • Steps: 0, 20, 60, 100, 200, 300, 500, 750, 1000 ms (ex-factory 0 ms) Adjustable non-delayed short-circuit releases I_i • NZM2 fixed 12 × I_n • NZM...3-VE250/400-NA: 2 – 11 × I_n (ex-factory 11 × I_n) • NZM...3-VE600-NA: 2 – 8 × I_n (ex-factory 8 × I_n) • NZM...4-VE...-NA: 2 – 12 × I_n (ex-factory 12 × I_n) i²t constant function • NZM2 fixed OFF • NZM3, NZM4 switched (ex-factory OFF) [1] For normal switching capacity with NZMN2-...-NA: 35 kA/480 V [2] For normal switching capacity with NZMN2-...-NA: 25 kA/600 V [3] For high switching capacity with NZMH2-...-NA: 35 kA/600 V [4] For limiter switching capacity with NZML4-...-NA: 85 kA/480 V
	160	80 – 160	1920	160 – 1600	**NZMN2-VE160-NA** 271149		**NZMH2-VE160-NA** 271152		**NZML2-VE160-NA** 271217			
	250	125 – 250	3000	250 – 2500	**NZMN2-VE250-NA** 271150		**NZMH2-VE250-NA** 271153		**NZML2-VE250-NA** 271218			
	250	125 – 250	500 – 2750	250 – 2500	**NZMN3-VE250-NA** 269332		**NZMH3-VE250-NA** 269335		**NZML3-VE250-NA** 269338			
	400	200 – 400	800 – 4400	400 – 4000	**NZMN3-VE400-NA** 269333		**NZMH3-VE400-NA** 269336		**NZML3-VE400-NA** 269339			
	600	300 – 600	1200 – 4800	450 – 4200	**NZMN3-VE600-NA** 269334		**NZMH3-VE600-NA** 269337		**NZML3-VE600-NA** 269340			
	800	400 – 800	1600 – 9600	800 – 8000	**NZMN4-VE800-NA** 271154		**NZMH4-VE800-NA** 271157		**NZML4-VE800-NA** 271219			
	1000	500 – 1000	2000 – 12000	1000 – 10000	**NZMN4-VE1000-NA** 271155		**NZMH4-VE1000-NA** 271158		**NZML4-VE1000-NA** 271220			
	1200	630 – 1200	2400 – 14400	1260 – 12000	**NZMN4-VE1200-NA** 271156		**NZMH4-VE1200-NA** 271159		**NZML4-VE1200-NA** 271221			

Notes Notes for terminals → 99

	Rated current = rated uninterrupted current	Setting range Short-circuit releases	Normal switching capacity 480 V 600 V		High switching capacity 480 V 600 V		Limiter switching capacity 480 V 600 V		Std. pack	Notes
			Part no. Article no.	Price see price list	Part no. Article no.	Price see price list	Part no. Article no.	Price see price list		
	$I_n = I_u$ A	I_i A								
Short-circuit protection										
Motor protection in conjunction with contactor and overload relay • With short-circuit release • Without overload release										
3 pole										
Terminal screws standard terminals as accessories										
	90	180 – 1260	**NZMN2-SE90-CNA** 271160		**NZMH2-SE90-CNA** 271163		**NZML2-SE90-CNA** 271228		1 off	Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. UL 489, CSA-C22.2-5.1, IEC/EN 60947-2and IEC/EN 60947-4 Adjustable short-circuit release I_i • 2 – 14 × I_n (ex-factory 12 × I_n) Without overload release I_r cULus CNA: The device has components approved to UL, the conditions of approval must be observed during use. i.e. the device must be combined with a suitable contactor and overload relay. A switching capacity is stated for the complete motor-starter combination. The device is approved as a CSA approved single device.
	140	280 – 1960	**NZMN2-SE140-CNA** 271161		**NZMH2-SE140-CNA** 271164		**NZML2-SE140-CNA** 271229			
	220	440 – 3080	**NZMN2-SE220-CNA** 271162		**NZMH2-SE220-CNA** 271165		**NZML2-SE220-CNA** 271230			
	220	440 – 3080	**NZMN3-SE220-CNA** 269341		**NZMH3-SE220-CNA** 269343		**NZML3-SE220-CNA** 269345			
	350	700 – 4900	**NZMN3-SE350-CNA** 269342		**NZMH3-SE350-CNA** 269344		**NZML3-SE350-CNA** 269346			
	450	900 – 6300	**NZMN3-SE450-CNA** 284465		**NZMH3-SE450-CNA** 284466		**NZML3-SE450-CNA** 284467			

Notes Notes for terminals → 99

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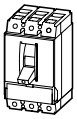
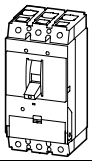
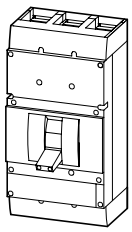
	Rated current = rated uninterrupted current	Switching capacity		Response range of the short-circuit releases	3 switch positions I, + , 0 ; can be tripped remotely with shunt/under voltage release **Part no.** Article no.	**Price** see price list	Std. pack	**Notes**
	$I_n = I_u$	At 480 V	At 600 V	I_i				
	A	kA	kA	A				
Molded case switches								
These switches are recommended especially as incoming circuit-breakers for the North American market.								
3 pole								
Terminals standard terminal screw as accessories								
	63	35	–	1250	**NS1-63-NA** 102681		1 off	Switches feature a fixed short-circuit release (self-protection) and comply to UL 489/CSA 22.2 No 5.1 regulations. Furthermore the switches are tested to IEC/EN 60947-2 as circuit-breakers without overcurrent protection (CBI-X) with main switch characteristics to IEC/EN 60204 and isolating characteristics to IEC 60947.
	100	35	–	1250	**NS1-100-NA** 102682			
	125	35	–	1250	**NS1-125-NA** 102683			
Terminal screws standard terminals as accessories								
	160	100	50	2500	**NS2-160-NA** 102684		1 off	Switches feature a fixed short-circuit release (self-protection) and comply to UL 489/CSA 22.2 No 5.1 regulations. Furthermore the switches are tested to IEC/EN 60947-2 as circuit-breakers without overcurrent protection (CBI-X) with main switch characteristics to IEC/EN 60204 and isolating characteristics to IEC 60947.
	200	100	50	2500	**NS2-200-NA** 102685			
	250	100	50	2500	**NS2-250-NA** 102686			
	400	100	50	4800	**NS3-400-NA** 102687			
	600	100	50	4800	**NS3-600-NA** 102688			
	800	100	50	14400	**NS4-800-NA**[1)] 102689			
	1000	100	50	14400	**NS4-1000-NA**[1)] 102690			
	1200	100	50	14400	**NS4-1200-NA**[1)] 102691			

Notes

[1)] on request

Notes for terminals → 95

NS2, NS3 and NS4 can be combined with remote operator NZM...-XR...
Voltage releases U/A and trip-indicating auxiliary contacts can be used.

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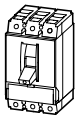
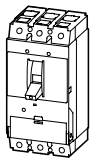
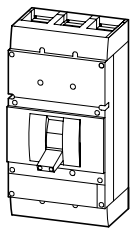
	Rated current = rated uninterrupted current	Short-circuit protection, max. gG/gL fuse[1]	Short-circuit protection max. fuse OTS characteristic	Short-circuit rating with OTS fuse		3 switch positions I, + , 0 ; can be tripped remotely with shunt/under voltage release		
				At 480 V:	At 600 V:	**Part no.** Article no.	**Price** see price list	Std. pack
	$I_n = I_u$							
	A	A	A	kA	kA			
Switch-disconnector								
3 pole								
Terminals standard, terminal screws as accessories								
	63	125	150	10	–	**N1-63-NA** 272259		1 off
	100	125	150	10	–	**N1-100-NA** 272260		
	125	125	150	10	–	**N1-125-NA** 272261		
Terminal screws standard terminals as accessories								
	160	250	225	10	10	**N2-160-NA** 271166		1 off
	400	630	–[2]	14	14	**N3-400-NA** 271169		
	550	630	–[2]	14	14	**N3-550-NA** 293635		
	600	1600	–[2]	25	25	**N4-600-NA** 292386		
	800	1600	–[2]	25	25	**N4-800-NA** 271171		
	1000	1600	–[2]	25	25	**N4-1000-NA** 271172		
	1200	1600	–[2]	25	25	**N4-1200-NA** 271173		

Notes

Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113.
Isolating characteristics to IEC/EN 60947-3 and VDE 0660.
Protection against accidental contact according to IEC.
Undervoltage and shunt releases and HIA trip-indicating auxiliary contacts can be used in addition with N switch-disconnectors.
N2..., N3... and N4... can also be combined with the NZM...-XR... remote operator.
Switches conform to UL 489/CSA 22.2 No. 5.1 as well as to the IEC regulations.

Rated current ranges 200 A and 250 A are covered by the molded case switches NS2-200-NA or NS2-250-NA.

Notes for terminals → 95

[1] for use when using a switch-disconnector to EN 60947-3.
[2] for use when using a switch-disconnector to N3...-NA and N4...-NA without protective device to UL 1087, CSA 22.2 No 5.2.

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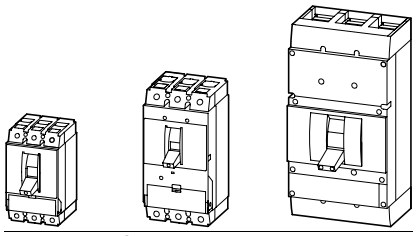
Circuit-breakers, 3 pole

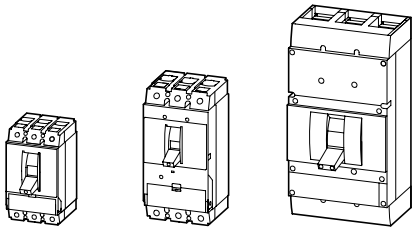
With main switch characteristics to IEC/EN 60204 and isolating characteristics to IEC/EN 60947, VDE 0660



Switching capacity			Protection of systems and cables			Selectively-opening circuit-breakers		Motor protection	
1000 V	kA/cos φ	I_{cu}	3/0.5	10/0.5	20/0.3	3/0.5	20/0.3	10/0.5	20/0.3
		I_{cs}	3/0.5	10/0.5	15/0.3	3/0.5	15/0.3	10/0.5	15/0.3
Rated uninterrupted current I_u = rated current I_n			I_u	I_u	I_u	I_u	I_u	I_u	I_u
Ambient temperature at 100 % I_u min./max. –25/+50 °C			A	A	A	A	A	A	A
			NZMH2-A...-S1	**NZMN3-AE...-S1**	**NZMH4-AE...-S1**	**NZMH2-VE...-S1**	**NZMH4-VE...-S1**	**NZMN3-ME...-S1**	**NZMH4-ME...-S1**
			20	250	630	100	630	220	550
			25	400	800	160	800	350	875
			32	**630**	1000	**250**	1000	**450**	**1400**
			40		1250		1250		
			50		**1600**		**1600**		
			63						
			80						
			100						
			125						
			160						
			200						
			250						

Switch-disconnectors, 3 pole

With main switch characteristics to IEC/EN 60204 and VDE 0113 and isolating characteristics to IEC/EN 60947, VDE 660 **without** overload and short-circuit release



Rated uninterrupted current I_u = rated current I_n		I_u	I_u	I_u
Ambient temperature at 100% I_u min./max. –25/+50 °C		A	A	A
		N2-...-S1	**N3-...-S1**	**N4-...-S1**
		160	400	800
		200	**630**	1000
		250		1250
				1600
Rated short-circuit making capacity I_{cm}	kA	5.5	25	53
Rated short-time withstand current I_{cw} (1s current$_{rms}$)	kA	3.5	12	25

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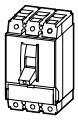
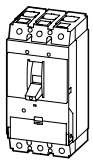
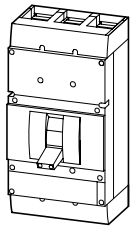
	Rated current = rated uninterrupted current	Setting range		Part no. Article no.	Price see price list	Std. pack	Notes
		Overload releases	Short-circuit releases				
	$I_n = I_u$	I_r	I_{rm}				
	A	A	A				
Protection of systems and cables							
3 pole							
Terminal screws standard terminals as accessories							
	20	15 – 20	350	**NZMH2-A20-S1** 290355		1 off	IEC/EN 60947-2 Adjustable overload release I_r • NZMH2-A...-S1: 0.8 – 1 × I_n (ex-factory 0.8 × I_n) • NZMN3-AE...-S1: 0.5 – 1 × I_n (ex-factory 0.5 × I_n) • NZMH4-AE...-S1: 0.5 – 1 × I_n (ex-factory 0.5 × I_n) Adjustable short-circuit release I_i • NZMH2-A40-S1: 8 – 10 × I_n (ex-factory 8 × I_n) • NZMH2-A50...250-S1: 6 – 10 × I_n (ex-factory 6 × I_n) • NZMN3-AE250/400-S1: 2 – 11 × I_n (ex-factory 6 × I_n) • NZMN3-AE630-S1: 2 – 8 × I_n (ex-factory 6 × I_n) • NZMH4-AE...-S1: 2 – 12 × I_n (ex-factory 6 × I_n) Fixed short-circuit release I_i • 350 A With I_n = 20 – 32 A Permissible terminals: NZM2: box terminal (+)NZM2-...-XKC..., type of conductor: insulated, stranded round conductor NZM3: insulated cable lug connection (screw connection NZM3-XKS) with NZM3-XKSA cover NZM4: insulated busbar connection (screw connection NZM4-XKS)
	25	20 – 25	350	**NZMH2-A25-S1** 290356			
	32	25 – 32	350 –	**NZMH2-A32-S1** 290357			
	40	32 – 40	320 – 400	**NZMH2-A40-S1** 290358			
	50	40 – 50	300 – 500	**NZMH2-A50-S1** 290359			
	63	50 – 63	380 – 630	**NZMH2-A63-S1** 290360			
	80	63 – 80	480 – 800	**NZMH2-A80-S1** 290361			
	100	80 – 100	600 – 1000	**NZMH2-A100-S1** 290362			
	125	100 – 125	750 – 1250	**NZMH2-A125-S1** 290363			
	160	125 – 160	960 – 1600	**NZMH2-A160-S1** 290364			
	200	160 – 200	1200 – 2000	**NZMH2-A200-S1** 290365			
	250	200 – 250	1500 – 2500	**NZMH2-A250-S1** 290366			
	250	125 – 250	500 – 2750	**NZMN3-AE250-S1** 290367			
	400	200 – 400	800 – 4400	**NZMN3-AE400-S1** 290368			
	630	315 – 630	1260 – 5040	**NZMN3-AE630-S1** 290369			
	630	315 – 630	1260 – 7560	**NZMH4-AE630-S1** 290370			
	800	400 – 800	1600 – 9600	**NZMH4-AE800-S1** 290371			
	1000	500 – 1000	2000 – 12000	**NZMH4-AE1000-S1** 290372			
	1250	630 – 1250	2500 – 15000	**NZMH4-AE1250-S1** 290373			
	1600	800 – 1600	3200 – 19200	**NZMH4-AE1600-S1** 290374			

Notes Accessories → Plug in and withdrawable units on request

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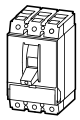
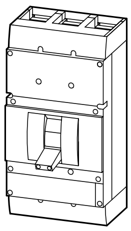
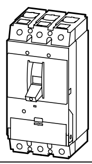
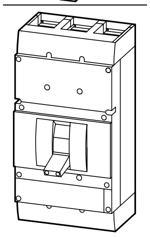
	Rated current = rated uninterrupted current $I_n = I_u$ A	Setting range Overload releases I_r A	Setting range Short-circuit releases I_{irm} A	Setting range Delayed short-circuit releases I_{sd} A	Part no. Article no.	Price see price list	Std. pack
Systems and cable protection, selectivity and generator protection[1]							
3 pole							
Terminal screws standard terminals as accessories							
	100	50 – 100	1200	100 – 1000	**NZMH2-VE100-S1** 100777		1 off
	160	80 – 160	1920	160 – 1600	**NZMH2-VE160-S1** 100778		
	250	125 – 250	3000	250 – 2500	**NZMH2-VE250-S1** 100779		
	630	315 – 630	1260 – 7560	630 – 6300	**NZMH4-VE630-S1** 290375		
	800	400 – 800	1600 – 9600	800 – 8000	**NZMH4-VE800-S1** 290376		
	1000	500 – 1000	2000 – 12000	1000 – 10000	**NZMH4-VE1000-S1** 290377		
	1250	630 – 1250	2500 – 15000	1250 – 12500	**NZMH4-VE1250-S1** 290378		
	1600	800 – 1600	3200 – 19200	1600 – 16000	**NZMH4-VE1600-S1** 290379		
Motor protection[2]							
3 pole							
Terminal screws standard terminals as accessories							
	220	110 – 220	220 – 3080		**NZMN3-ME220-S1** 290380		1 off
	350	175 – 350	350 – 4900		**NZMN3-ME350-S1** 290381		
	450	225 – 450	450 – 6300		**NZMN3-ME450-S1** 290382		
	550	275 – 550	550 – 7700		**NZMH4-ME550-S1** 290383		
	875	438 – 875	875 – 12250		**NZMH4-ME875-S1** 290384		
	1400	700 – 1400	1400 – 19600		**NZMH4-ME1400-S1** 290385		

Notes

Accessories → Plug in and withdrawable units on request

[1] IEC/EN 60947-2
Adjustable overload release I_r
- 0.5 – 1 × I_n (ex-factory 0.8 × I_n)

R.m.s. value measurement and "thermal memory"
Adjustable time delay setting to overcome current peaks t_r
- 2 – 20 s with 6 × I_r as well as infinity (without overload release) (ex-factory 10 s)

Adjustable delayed short-circuit releases I_{sd}
- 2 – 10 × I_r (ex-factory 6 × I_r)

Adjustable delay time t_{sd}
Steps: 0, 20, 60, 100, 200, 300, 500, 750, 1000 ms (ex-factory 0 ms)
Adjustable non-delayed short-circuit releases I_i
- NZM2 fixed 12 × I_n
- NZM4: 2 – 12 × I_n (ex-factory 12 × I_n)

i^2t constant function
- NZM2 fixed OFF
- NZM4 switched (ex-factory OFF)

Permissible terminals:
NZM2: box terminal (+)NZM2-...-XKC..., type of conductor: insulated, stranded round conductor
NZM4: Insulated busbar connection (NZM4-XKS screw connection)

[2] IEC/EN 60947-2
Release with motor protection characteristic
Adjustable overload release I_r
- 0.5 – 1 × I_n (ex-factory 0.8 × I_n)

R.m.s. value measurement and "thermal memory"
Adjustable time delay setting to overcome current peaks t_r
- 2 – 20 s with 6 × I_r as well as infinity (without overload release) (ex-factory 10 s)

Phase-failure sensitivity
Adjustable short-circuit release I_i
- 2 – 14 × I_r (ex-factory 12 × I_r)

Permissible terminals:
NZM3: Insulated cable connection (NZM3-XKS screw connection) with NZM3-XKSA cover
NZM4: Insulated busbar connection (NZM4-XKS screw connection)

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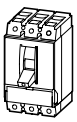
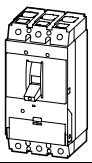
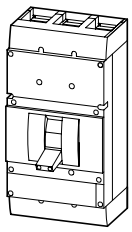
	Rated current = rated uninterrupted current	Short-circuit protection, max. gG/gL fuse	3 switch positions I, + , 0 ; can be tripped remotely with shunt/under voltage release **Part no.** Article no.	**Price** see price list	Std. pack	**Notes**
	$I_n = I_u$ A	A gL				
Switch-disconnectors						
3 pole						
Terminal screws standard terminals as accessories						
	160	250	**N2-160-S1**[1)] 290386		1 off	IEC/EN 60947-3 Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113. Isolating characteristics to IEC/EN 60947 and VDE 0660. Protection against accidental contact according to IEC 0160 With the switch-disconnector N additional voltage releases NZM...-XU, NZM...-XA and trip-indicating auxiliary contacts (HIA) can be used. N2..., N3... and N4... can also be combined with the NZM...-XR... remote operator. Permissible terminals: NZM2: box terminal (+)NZM2-...-XKC..., type of conductor: insulated, stranded round conductor NZM3: Insulated cable lug connection (NZM3-XKS screw connection) with NZM3-XKSA cover NZM4: Insulated busbar connection (NZM4-XKS screw connection)
	200	250	**N2-200-S1**[1)] 290387			
	250	250	**N2-250-S1**[1)] 290388			
	400	630	**N3-400-S1**[1)] 290389			
	630	630	**N3-630-S1**[1)] 290390			
	800	1600	**N4-800-S1**[1)] 290391			
	1000	1600	**N4-1000-S1**[1)] 290392			
	1250	1600	**N4-1250-S1**[1)] 290393			
	1600	1600	**N4-1600-S1**[1)] 290394			

Notes Accessories → Plug in and withdrawable units on request

[1)] on request

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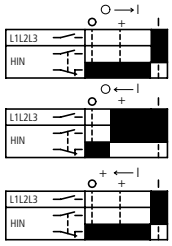
Contact sequence of the auxiliary contacts

Standard auxiliary contact (HIN)



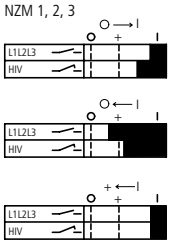
0 → I Switch-on ■ Contact closed
□ Contact open

0 ← I Switch-off

+ ← I Trip

Early-make auxiliary contact (HIV)

NZM 1, 2, 3

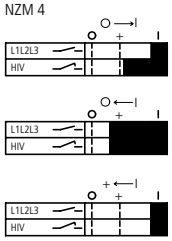


0 → I Switch-on ■ Contact closed
□ Contact open

0 ← I Switch-off

+ ← I Trip

NZM 4

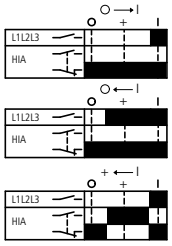


0 → I Switch-on ■ Contact closed
□ Contact open

0 ← I Switch-off

+ ← I Trip

Trip-indicating auxiliary contact (HIA)



0 → I Switch-on ■ Contact closed
□ Contact open

0 ← I Switch-off

+ ← I Trip

Maximum component fitting		NZM1	NZM2	NZM3	NZM4
HIN	1 N/O or 1 N/C	1	2	3	3
HIA	1 N/O or 1 N/C	1	1	1	2
HIV	2 N/O	1	1	1	1

Notes: If early-make contacts are required in combination with shunt or undervoltage releases, please select the combination type in the "Release" section.

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Circuit-breakers, switch-disconnectors up to 1600 A

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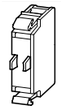
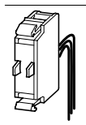
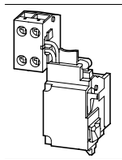
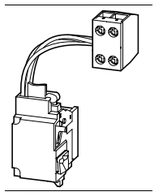
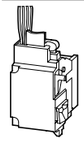
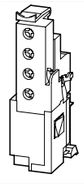
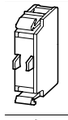
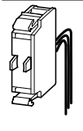
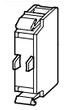
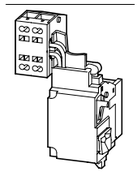
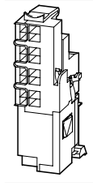
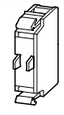
	For use with	Auxiliary contacts: ⊖ = safety function, by positive opening to IEC/EN 60947-5-1 N/O = Normally open	N/C = Normally closed	Contact sequence	Part no. Article no. when ordered separately	Price see price list	Std. pack	Notes
Auxiliary contacts								
Standard auxiliary contact Switching with the main contacts Used for indicating and interlocking tasks								
		NZM1(-4), 2(-4), 3(-4), 4(-4) PN1(-4), 2(-4), 3(-4) N1(-4), 2(-4), 3(-4), 4(-4)	1 N/O	–		**M22-K10** 216376		20 off	For Std. pack: M22-(C)K... : Std. pack = 20 off	The following can be clipped into the switches: • NZM1 – a standard auxiliary contact • NZM2 up to two M22-K... standard auxiliary contacts • NZM3 as well as NZM4 - up to 3 standard auxiliary contacts M22-(C)K... Any combinations of the auxiliary contact types is possible. Marking on switch: HIN
			–	1 N/C ⊖		**M22-K01** 216378		20 off		
	With 3 m connection cable instead of screw termination.	NZM1(-4) PN1(-4) N1(-4)	1 N/O	1 N/C ⊖		**NZM-XHI11L**[1)] 266098		1 off		
			2 N/O	–		**NZM-XHI20L**[1)] 266099				
			–	2 N/C ⊖		**NZM-XHI02L**[1)] 266170				
Early-make auxiliary contact For interlock and load-shedding circuits										
	With clamp terminal on the left-hand switch side.	NZM1(-4) PN1(-4) N1(-4)	2 N/O	–		**NZM1-XHIV** 259426		1 off		Not in conjunction with undervoltage release NZM...-XU(C)... or shunt release NZM...-XA(C)... Early-make with on and off switching (manual operation): approx. 20 ms
	With clamp terminal on the right-hand switch side.		2 M	–		**NZM1-XHIVR** 292195				
	With 3 m connection cable instead of screw termination.		2 N/O	–		**NZM1-XHIVL** 259432				
		NZM2(-4), 3(-4) PN2(-4), 3(-4) N2(-4), 3(-4)	2 N/O	–		**NZM2/3-XHIV** 259430				
		NZM4(-4) N4(-4)	2 N/O	–		**NZM4-XHIV** 266172				
Trip-indicating auxiliary contact (HIA) General trip indication '+', when tripped by voltage release, overload release or short-circuit release										
		NZM1(-4), 2(-4), 3(-4), 4(-4) N1(-4), 2(-4), 3(-4), 4(-4)	1 N/O	–		**M22-K10** 216376		20 off	For Std. pack: M22-(C)K... : Std. pack = 20 off For Std. pack: M22-(C)K... : Std. pack = 20 off	The following can be clipped into the switches: • NZM1 - one trip-indicating auxiliary switch • NZM2 - one M22-(C)K... trip-indicating auxiliary switch • NZM3 - one M22-(C)K... trip-indicating auxiliary switch • NZM4 - up to two M22-(C)K... trip-indicating auxiliary switches Any combinations of the auxiliary contact types ispossible. Marking on switch: HIA
			–	1 N/C ⊖		**M22-K01** 216378		20 off		
	With 3 m connection cable instead of screw termination.	NZM1(-4) N1(-4)	1 N/O	1 N/C ⊖		**NZM-XHI11L**[1)] 266098		1 off		
			2 N/O	–		**NZM-XHI20L**[1)] 266099				
			–	2 N/C ⊖		**NZM-XHI02L**[1)] 266170				









Notes [1)] on request

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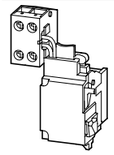
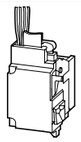
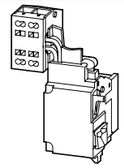
Circuit-breakers, switch-disconnectors up to 1600 A

		For use with	Rated control voltage U_s V	Part no. Article no. when ordered separately	Price see price list	Std. pack	Notes
Undervoltage releases							
Without auxiliary contact Non-delayed disconnection of NZM circuit-breakers or N switch-disconnectors when the control voltage sinks below 35 – 70% U_S. For use with Emergency-Stop devices in conjunction with Emergency-Stop button.							
		With clamp terminal on the left-hand switch side.	NZM1(-4), N1(-4)	24 V 50/60 Hz	**NZM1-XU24AC** 259434			1 off	When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on, is safely prevented . Undervoltage release cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release.
				48 V 50/60 Hz	**NZM1-XU48AC** 259436				
				60 V 50/60 Hz	**NZM1-XU60AC** 259438				
				110 V – 130 V 50/60 Hz	**NZM1-XU110-130AC** 259440				
				208 V 240 V 50/60 Hz	**NZM1-XU208-240AC** 259442				
				380 V – 440 V 50/60 Hz	**NZM1-XU380-440AC** 259444				
				480 V – 525 V 50/60 Hz	**NZM1-XU480-525AC** 259446				
				600 V 50/60 Hz	**NZM1-XU600AC** 259448				
				12 V DC	**NZM1-XU12DC** 259450				
				24 V DC	**NZM1-XU24DC** 259452				
				48 V DC	**NZM1-XU48DC** 262631				
				60 V DC	**NZM1-XU60DC** 259454				
				110 V – 130 V DC	**NZM1-XU110-130DC** 259458				
				220 V – 250 V DC	**NZM1-XU220-250DC** 259460				
		With 3 m connection cable instead of screw termination.	NZM1(-4), N1(-4)	24 V 50/60 Hz	**NZM1-XUL24AC** 259462			1 off	
				48 V 50/60 Hz	**NZM1-XUL48AC** 259464				
				60 V 50/60 Hz	**NZM1-XUL60AC** 259466				
				110 V – 130 V 50/60 Hz	**NZM1-XUL110-130AC** 259468				
				208 V 240 V 50/60 Hz	**NZM1-XUL208-240AC** 259471				
				380 V – 440 V 50/60 Hz	**NZM1-XUL380-440AC** 259473				
				480 V – 525 V 50/60 Hz	**NZM1-XUL480-525AC** 259475				
				600 V 50/60 Hz	**NZM1-XUL600AC** 259477				
				12 V DC	**NZM1-XUL12DC** 259479				
				24 V DC	**NZM1-XUL24DC** 259481				
				48 V DC	**NZM1-XUL48DC** 259483				
				60 V DC	**NZM1-XUL60DC** 259485				
				110 V 130 V DC	**NZM1-XUL110-130DC** 259487				
				220 V – 250 V DC	**NZM1-XUL220-250DC** 259489				
					**NZM1-XUC24AC** 266271			1 off	
					NZM1-XUC48AC 266272				
					NZM1-XUC60AC 266273				
					NZM1-XUC110-130AC 266274				
					NZM1-XUC208-240AC 266275				
					NZM1-XUC380-440AC 266276				
					NZM1-XUC480-525AC 266277				
					NZM1-XUC600AC 266278				
					NZM1-XUC12DC 266285				
					NZM1-XUC24DC 266286				
					NZM1-XUC48DC 266287				
					NZM1-XUC60DC 266288				
					NZM1-XUC110-130DC 266289				
					NZM1-XUC220-250DC 266290				

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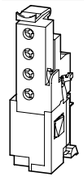
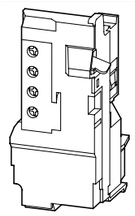
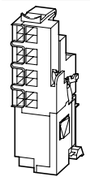
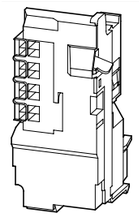
		For use with	Rated control voltage U_s V	**Part no.** Article no. when ordered separately
Undervoltage releases				
Without auxiliary contact Non-delayed disconnection of NZM circuit-breakers or N switch-disconnectors when the control voltage sinks below 35 – 70% U_S. For use with Emergency-Stop devices in conjunction with Emergency-Stop button.				
		–	NZM2(-4), N2(-4) NZM3(-4), N3(-4)	24 V 50/60 Hz	**NZM2/3-XU24AC** 259491
				48 V 50/60 Hz	**NZM2/3-XU48AC** 259493
				60 V 50/60 Hz	**NZM2/3-XU60AC** 259495
				110 V – 130 V 50/60 Hz	**NZM2/3-XU110-130AC** 259497
				208 V 240 V 50/60 Hz	**NZM2/3-XU208-240AC** 259499
				380 V – 440 V 50/60 Hz	**NZM2/3-XU380-440AC** 259501
				480 V – 525 V 50/60 Hz	**NZM2/3-XU480-525AC** 259503
				600 V 50/60 Hz	**NZM2/3-XU600AC** 259505
				12 V DC	**NZM2/3-XU12DC** 259507
				24 V DC	**NZM2/3-XU24DC** 259509
				48 V DC	**NZM2/3-XU48DC** 259511
				60 V DC	**NZM2/3-XU60DC** 259513
				110 V 130 V DC	**NZM2/3-XU110-130DC** 259515
				220 V – 250 V DC	**NZM2/3-XU220-250DC** 259517
		–	NZM4(-4), N4(-4)	24 V 50/60 Hz	**NZM4-XU24AC** 266189
				48 V 50/60 Hz	**NZM4-XU48AC** 266190
				60 V 50/60 Hz	**NZM4-XU60AC** 266191
				110 V – 130 V 50/60 Hz	**NZM4-XU110-130AC** 266192
				208 V – 240 V 50/60 Hz	**NZM4-XU208-240AC** 266193
				380 V – 440 V 50/60 Hz	**NZM4-XU380-440AC** 266194
				480 V – 525 V 50/60 Hz	**NZM4-XU480-525AC** 266195
				600 V 50/60 Hz	**NZM4-XU600AC** 266196
				12 V DC	**NZM4-XU12DC** 266203
				24 V DC	**NZM4-XU24DC** 266204
				48 V DC	**NZM4-XU48DC** 266205
				60 V DC	**NZM4-XU60DC** 266206
				110 V – 130 V DC	**NZM4-XU110-130DC** 266207
				220 V – 250 V DC	**NZM4-XU220-250DC** 266208

		Part no. Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
		**NZM2/3-XUC24AC** 266299		1 off	When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on, is safely prevented . Undervoltage release cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release.
		NZM2/3-XUC48AC 266300			
		NZM2/3-XUC60AC 266301			
		NZM2/3-XUC110-130AC 266302			
		NZM2/3-XUC208-240AC 266303			
		NZM2/3-XUC380-440AC 266304			
		NZM2/3-XUC480-525AC 266305			
		NZM2/3-XUC600AC 266306			
		NZM2/3-XUC12DC 266313			
		NZM2/3-XUC24DC 266314			
		NZM2/3-XUC48DC 266315			
		NZM2/3-XUC60DC 266316			
		NZM2/3-XUC110-130DC 266317			
		NZM2/3-XUC220-250DC 266318			
		**NZM4-XUC24AC** 266327		1 off	
		NZM4-XUC48AC 266328			
		NZM4-XUC60AC 266329			
		NZM4-XUC110-130AC 266330			
		NZM4-XUC208-240AC 266331			
		NZM4-XUC380-440AC 266332			
		NZM4-XUC480-525AC 266333			
		NZM4-XUC600AC 266334			
		NZM4-XUC12DC 266341			
		NZM4-XUC24DC 266342			
		NZM4-XUC48DC 266343			
		NZM4-XUC60DC 266344			
		NZM4-XUC110-130DC 266345			
		NZM4-XUC220-250DC 266346			

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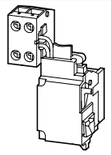
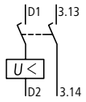
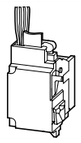
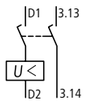
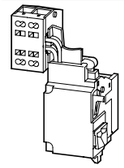
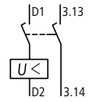
		For use with	Rated control voltage U_s V	**Part no.** Article no. when ordered separately
Undervoltage releases				
With two early-make auxiliary contacts For interlocking and load-shedding circuits, as well as for early-make of the undervoltage release in main-switch applications.				
		With clamp terminal on the left-hand switch side.	NZM1(-4), N1(-4)	24 V 50/60 Hz 48 V 50/60 Hz 60 V 50/60 Hz 110 V – 130 V 50/60 Hz 208 V – 240 V 50/60 Hz 380 V – 440 V 50/60 Hz 480 V – 525 V 50/60 Hz 12 V DC 24 V DC 48 V DC 60 V DC 110 V 130 V DC 220 V – 250 V DC	**NZM1-XUHIV24AC** 259531 **NZM1-XUHIV48AC** 259533 **NZM1-XUHIV60AC** 259535 **NZM1-XUHIV110-130AC** 259537 **NZM1-XUHIV208-240AC** 259539 **NZM1-XUHIV380-440AC** 259541 **NZM1-XUHIV480-525AC** 259543 **NZM1-XUHIV12DC** 259545 **NZM1-XUHIV24DC** 259547 **NZM1-XUHIV48DC** 259549 **NZM1-XUHIV60DC** 259551 **NZM1-XUHIV110-130DC** 259553 **NZM1-XUHIV220-250DC** 259555
		With 3 m connection cable instead of screw termination.	NZM1(-4), N1(-4)	24 V 50/60 Hz 48 V 50/60 Hz 60 V 50/60 Hz 110 V – 130 V 50/60 Hz 208 V 240 V 50/60 Hz 380 V – 440 V 50/60 Hz 480 V – 525 V 50/60 Hz 12 V DC 24 V DC 48 V DC 60 V DC 110 V 130 V DC 220 V – 250 V DC	**NZM1-XUHIVL24AC** 259557 **NZM1-XUHIVL48AC** 259559 **NZM1-XUHIVL60AC** 259561 **NZM1-XUHIVL110-130AC** 259563 **NZM1-XUHIVL208-240AC** 259565 **NZM1-XUHIVL380-440AC** 259567 **NZM1-XUHIVL480-525AC** 259569 **NZM1-XUHIVL12DC** 259571 **NZM1-XUHIVL24DC** 259573 **NZM1-XUHIVL48DC** 259575 **NZM1-XUHIVL60DC** 259577 **NZM1-XUHIVL110-130DC** 259579 **NZM1-XUHIVL220-250DC** 259581

		Part no. Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
		**NZM1-XUHIVC24AC** 266355 **NZM1-XUHIVC48AC** 266356 **NZM1-XUHIVC60AC** 266357 **NZM1-XUHIVC110-130AC** 266358 **NZM1-XUHIVC208-240AC** 266359 **NZM1-XUHIVC380-440AC** 266360 **NZM1-XUHIVC480-525AC** 266361 **NZM1-XUHIVC12DC** 266369 **NZM1-XUHIVC24DC** 266370 **NZM1-XUHIVC48DC** 266371 **NZM1-XUHIVC60DC** 266372 **NZM1-XUHIVC110-130DC** 266373 **NZM1-XUHIVC220-250DC** 266374		1 off	When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on is safely prevented. Early-make of the auxiliary contacts with on and off switching (manual operation): approx. 20 ms. Undervoltage releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release.

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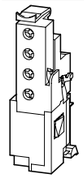
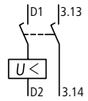
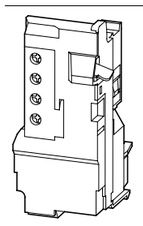
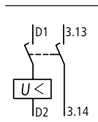
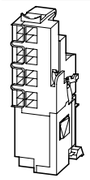
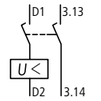
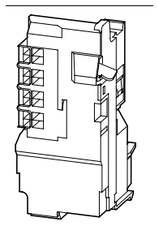
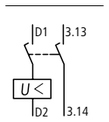
		For use with	Rated control voltage U_s V	**Part no.** Article no. when ordered separately
Undervoltage releases				
With two early-make auxiliary contacts For interlocking and load-shedding circuits, as well as for early-make of the undervoltage release in main-switch applications.				
		NZM2(-4), N2(-4) NZM3(-4), N3(-4)	24 V 50/60 Hz	**NZM2/3-XUHIV24AC** 259583
			48 V 50/60 Hz	**NZM2/3-XUHIV48AC** 259585
			60 V 50/60 Hz	**NZM2/3-XUHIV60AC** 259587
			110 V – 130 V 50/60 Hz	**NZM2/3-XUHIV110-130AC** 259589
			208 V – 240 V 50/60 Hz	**NZM2/3-XUHIV208-240AC** 259591
			380 V – 440 V 50/60 Hz	**NZM2/3-XUHIV380-440AC** 259594
			480 V – 525 V 50/60 Hz	**NZM2/3-XUHIV480-525AC** 259598
			12 V DC	**NZM2/3-XUHIV12DC** 259600
			24 V DC	**NZM2/3-XUHIV24DC** 259602
			48 V DC	**NZM2/3-XUHIV48DC** 259604
			60V DC	**NZM2/3-XUHIV60DC** 259606
			110 V 130 V DC	**NZM2/3-XUHIV110-130DC** 259608
			220 V – 250 V DC	**NZM2/3-XUHIV220-250DC** 259610
		NZM4(-4), N4(-4)	24 V 50/60 Hz	**NZM4-XUHIV24AC** 266217
			48 V 50/60 Hz	**NZM4-XUHIV48AC** 266218
			60 V 50/60 Hz	**NZM4-XUHIV60AC** 266219
			110 V – 130 V 50/60 Hz	**NZM4-XUHIV110-130AC** 266220
			208 V – 240 V 50/60 Hz	**NZM4-XUHIV208-240AC** 266221
			380 V – 440 V 50/60 Hz	**NZM4-XUHIV380-440AC** 266222
			480 V – 525 V 50/60 Hz	**NZM4-XUHIV480-525AC** 266223
			12 V DC	**NZM4-XUHIV12DC** 266231
			24 V DC	**NZM4-XUHIV24DC** 266232
			48 V DC	**NZM4-XUHIV48DC** 266233
			60V DC	**NZM4-XUHIV60DC** 266234
			110 V – 130 V DC	**NZM4-XUHIV110-130DC** 266235
			220 V – 250 V DC	**NZM4-XUHIV220-250DC** 266236

		Part no. Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
		**NZM2/3-XUHIVC24AC** 266383		1 off	When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on is safely prevented. Early-make of the auxiliary contacts with on and off switching (manual operation): approx. 20 ms. Cannot be used in conjunction with NZM...-XR... remote operator. Undervoltage releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release.
		NZM2/3-XUHIVC48AC 266384			
		NZM2/3-XUHIVC60AC 266385			
		NZM2/3-XUHIVC110-130AC 266386			
		NZM2/3-XUHIVC208-240AC 266387			
		NZM2/3-XUHIVC380-440AC 266388			
		NZM2/3-XUHIVC480-525AC 266389			
		NZM2/3-XUHIVC12DC 266397			
		NZM2/3-XUHIVC24DC 266398			
		NZM2/3-XUHIVC48DC 266399			
		NZM2/3-XUHIVC60DC 266400			
		NZM2/3-XUHIVC110-130DC 266401			
		NZM2/3-XUHIVC220-250DC 266402			
		**NZM4-XUHIVC24AC** 266411		1 off	When the undervoltage release is de-energized, accidental contact with the main switches of the switch during attempts to switch on is safely prevented. Early-make of the auxiliary contacts with switch on (manual operation): approx. 90 ms. Cannot be used in conjunction with NZM...-XR... remote operator. Undervoltage releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release.
		NZM4-XUHIVC48AC 266412			
		NZM4-XUHIVC60AC 266413			
		NZM4-XUHIVC110-130AC 266414			
		NZM4-XUHIVC208-240AC 266415			
		NZM4-XUHIVC380-440AC 266416			
		NZM4-XUHIVC480-525AC 266417			
		NZM4-XUHIVC12DC 266425			
		NZM4-XUHIVC24DC 266426			
		NZM4-XUHIVC48DC 266427			
		NZM4-XUHIVC60DC 266428			
		NZM4-XUHIVC110-130DC 266429			
		NZM4-XUHIVC220-250DC 266430			

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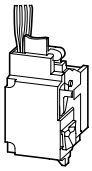
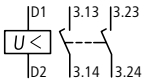
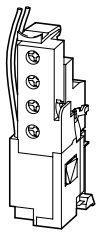
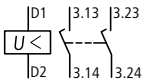
		For use with	Rated control voltage U_s V	Part no. Article no. when ordered separately	Price see price list	Std. pack
Undervoltage releases						
With two separate early-make auxiliary contacts						
With 3 m connection cable instead of screw termination.						
		NZM1(-4), N1(-4)	24 V 50/60 Hz	**NZM1-XUHIV20L24AC** 259612		1 off
			48 V 50/60 Hz	**NZM1-XUHIV20L48AC** 259616		
			60 V 50/60 Hz	**NZM1-XUHIV20L60AC** 259618		
			110 V – 130 V 50/60 Hz	**NZM1-XUHIV20L110-130AC** 259620		
			208 V – 240 V 50/60 Hz	**NZM1-XUHIV20L208-240AC** 259622		
			380 V – 440 V 50/60 Hz	**NZM1-XUHIV20L380-440AC** 259624		
			480 V – 525 V 50/60 Hz	**NZM1-XUHIV20L480-525AC** 259626		
			12 V DC	**NZM1-XUHIV20L12DC** 259628		
			24 V DC	**NZM1-XUHIV20L24DC** 259630		
			48 V DC	**NZM1-XUHIV20L48DC** 259632		
			60 V DC	**NZM1-XUHIV20L60DC** 259634		
			110 V – 130 V DC	**NZM1-XUHIV20L110-130DC** 259636		
			220 V – 250 V DC	**NZM1-XUHIV20L220-250DC** 259638		
Contacts 3.23 and 3.24 with separate 3 m connection cables.						
		NZM2(-4), N2(-4) NZM3(-4), N3(-4)	24 V 50/60 Hz	**NZM2/3-XUHIV2024AC** 259640		1 off
			48 V 50/60 Hz	**NZM2/3-XUHIV2048AC** 259643		
			60 V 50/60 Hz	**NZM2/3-XUHIV2060AC** 259646		
			110 V – 130 V 50/60 Hz	**NZM2/3-XUHIV20110-130AC** 259648		
			208 V – 240 V 50/60 Hz	**NZM2/3-XUHIV20208-240AC** 259651		
			380 V – 440 V 50/60 Hz	**NZM2/3-XUHIV20380-440AC** 259653		
			480 V – 525 V 50/60 Hz	**NZM2/3-XUHIV20480-525AC** 259655		
			12 V DC	**NZM2/3-XUHIV2012DC** 259657		
			24 V DC	**NZM2/3-XUHIV2024DC** 259659		
			48 V DC	**NZM2/3-XUHIV2048DC** 259661		
			60 V DC	**NZM2/3-XUHIV2060DC** 259663		
			110 V – 130 V DC	**NZM2/3-XUHIV20110-130DC** 259665		
			220 V – 250 V DC	**NZM2/3-XUHIV20220-250DC** 259667		

Notes

When the undervoltage release is de-energized, accidental contact with the main switches of the switch during attempts to switch on is safely prevented.
Early-make of the auxiliary contacts with on and off switching (manual operation): approx. 20 ms.
Cannot be used in conjunction with NZM...-XR... remote operator.
Undervoltage releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release.

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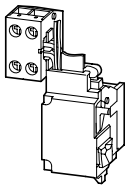
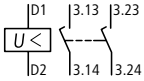
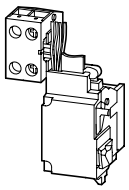
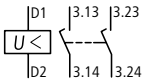
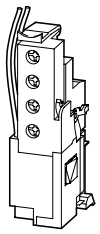
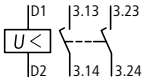
		For use with	Rated control voltage U_s V	Part no. Article no. when ordered separately	Price see price list	Std. pack
Undervoltage releases						
With two separate early-make auxiliary contacts						
Coil connection wired to clamp terminal, auxiliary switch connections wired with 3 m loose connection cables						
		NZM1(-4), N1(-4)	24 V 50/60 Hz	**NZM1-XUHIV20KL24AC** 284388		1 off
			110 V – 130 V 50/60 Hz	**NZM1-XUHIV20KL110-130AC** 284389		
			208 V – 240 V 50/60 Hz	**NZM1-XUHIV20KL208-240AC** 284400		
			24 V DC	**NZM1-XUHIV20KL24DC** 284387		
Coil connection with 3 m loose connection cables, auxiliary switch connections wired to clamp terminal						
		NZM1(-4), N1(-4)	24 V 50/60 Hz	**NZM1-XUHIV20LK24AC** 284402		1 off
			110 V – 130 V 50/60 Hz	**NZM1-XUHIV20LK110-130AC** 284403		
			208 V – 240 V 50/60 Hz	**NZM1-XUHIV20LK208-240AC** 284404		
			24 V DC	**NZM1-XUHIV20LK24DC** 284401		
Coil connection with 3 m loose connection cables, auxiliary switch connections wired to clamp terminal						
		NZM2(-4), N2(-4) NZM3(-4), N3(-4)	24 V 50/60 Hz	**NZM2/3-XUHIV20LK24AC** 285291		1 off
			110 V – 130 V 50/60 Hz	**NZM2/3-XUHIV20LK110-130AC** 284407		
			208 V – 240 V 50/60 Hz	**NZM2/3-XUHIV20LK208-240AC** 284408		
			24 V DC	**NZM2/3-XUHIV20LK24DC** 284405		

Notes

When the undervoltage release is de-energized, accidental contact with the main switches of the switch during attempts to switch on is safely prevented.
Early-make of the auxiliary contacts with on and off switching (manual operation): approx. 20 ms.
Cannot be used in conjunction with NZM...-XR... remote operator.
Undervoltage releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release.

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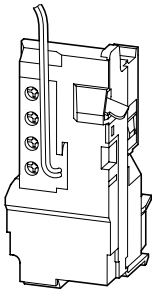
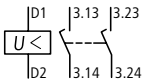
	For use with	Rated control voltage U_s V	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack
Undervoltage releases					
With two separate early-make auxiliary contacts					
Contacts 3.23 and 3.24 with separate 3 m connection cables.					
 	NZM4(-4), N4(-4)	24 V 50/60 Hz	**NZM4-XUHIV2024AC** 266244		1 off
		48 V 50/60 Hz	**NZM4-XUHIV2048AC** 266245		
		60 V 50/60 Hz	**NZM4-XUHIV2060AC** 266246		
		110 V – 130 V 50/60 Hz	**NZM4-XUHIV20110-130AC** 266247		
		208 V 240 V 50/60 Hz	**NZM4-XUHIV20208-240AC** 266248		
		380 V – 440 V 50/60 Hz	**NZM4-XUHIV20380-440AC** 266249		
		480 V – 525 V 50/60 Hz	**NZM4-XUHIV20480-525AC** 266250		
		12 V DC	**NZM4-XUHIV2012DC** 266257		
		24 V DC	**NZM4-XUHIV2024DC** 266258		
		48 V DC	**NZM4-XUHIV2048DC** 266259		
		60 V DC	**NZM4-XUHIV2060DC** 266260		
		110 V – 130 V DC	**NZM4-XUHIV20110-130DC** 266261		
		220 V – 250 V DC	**NZM4-XUHIV20220-250DC** 266262		

Notes

When the undervoltage release is de-energized, accidental contact with the main switches of the switch during attempts to switch on is safely prevented.
Early-make of the auxiliary contacts with switch on (manual operation): approx. 90 ms.
Cannot be used in conjunction with NZM...-XR... remote operator.
Undervoltage releases cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XA... shunt release.

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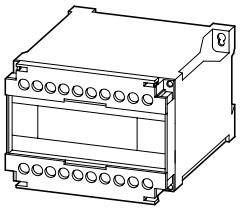
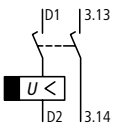
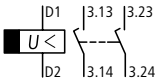
	For use with	Part no. Article no. when ordered separately	Price see price list	Std. pack	Notes
Undervoltage releases, off-delayed					
Combination of separate delay unit and special tripping device.					
Delay unit Voltage dips of less than the setting between 0.06 – 16 s do not cause disconnection of the NZM circuit-breaker or N switch-disconnector.					
	NZM1(-4), 2(-4), 3(-4), 4(-4) N1(-4), 2(-4), 3(-4), 4(-4) 50/60 Hz 220 V – 240 V 380 V – 440 V 480 V – 550 V DC/AC 24 V	**UVU-NZM** 260154		1 off	Adjustable delay time 70 ms – 4 s. With additional capacitor up to 16 s. A special tripping device is required. Cannot be installed simultaneously with NZM...-XHIV... or NZM...-XA... shunt release. Delay unit for separate installation (Fixing: top-hat rail or screws). For other operating voltages use control transformer.
Special tripping device For combination with separate delay unit					
Without auxiliary contacts					
NZM1 with 3 m separate connection cables instead of screw terminal, NZM2, 3 , 4 with screw terminal					
	NZM1(-4) N1(-4)	**NZM1-XUVL** 271607		1 off	UVU-NZM delay unit is additionally required. Cannot be installed simultaneously with separate NZM...-XHIV early-make auxiliary contact or NZM...-XA... shunt release.
	NZM2(-4), N2(-4) NZM3(-4), N3(-4)	**NZM2/3-XUV** 259527			
	NZM4(-4) N4(-4)	**NZM4-XUV** 266588			
With 2 early-make auxiliary contacts					
NZM1 with 3 m separate connection cables instead of screw terminal, NZM2, 3 , 4 with screw terminal					
	NZM1(-4) N1(-4)	**NZM1-XUVHIVL** 271608		1 off	Cannot be used in conjunction with NZM...-XR... remote operator. UVU-NZM delay unit is additionally required. Cannot be installed simultaneously with separate NZM...-XHIV early-make auxiliary contact or NZM...-XA... shunt release. NZM1, 2, 3: Early-make of the auxiliary contacts with on and off switching (manual operation): approx. 20 ms. NZM4: Early-make of the auxiliary contacts with switch on (manual operation): approx. 90 ms.
	NZM2(-4), N2(-4) NZM3(-4), N3(-4)	**NZM2/3-XUVHIV** 259684			
	NZM4(-4) N4(-4)	**NZM4-XUVHIV** 266596			
With 2 separately operating early-make auxiliary contacts					
NZM1 with 3 m separate connection cables instead of screw terminal, NZM2, 3, 4 with screw terminal, contact 3.23 and 3.24 with 3 m separate connection cables.					
	NZM1(-4) N1(-4)	**NZM1-XUVHIV20L** 271609		1 off	Cannot be used in conjunction with NZM...-XR... remote operator. UVU-NZM delay unit is additionally required. Cannot be installed simultaneously with separate NZM...-XHIV early-make auxiliary contact or NZM...-XA... shunt release. NZM1, 2, 3: Early-make of the auxiliary contacts with on and off switching (manual operation): approx. 20 ms. NZM4: Early-make of the auxiliary contacts with switch on (manual operation): approx. 90 ms.
	NZM2(-4), N2(-4) NZM3(-4), N3(-4)	**NZM2/3-XUVHIV20** 259688			
	NZM4(-4) N4(-4)	**NZM4-XUVHIV20** 266604			

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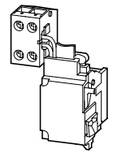
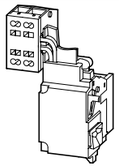
		For use with	Rated control voltage U_s V	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
Shunt releases							
Without auxiliary contact Switches are tripped by a voltage pulse or by the application of uninterrupted voltage.							
		With clamp terminal on the left-hand switch side.	NZM1(-4), N1(-4)	12 V AC/DC	**NZM1-XA12AC/DC** 259706			
				24 V AC/DC	**NZM1-XA24AC/DC** 259708		
				48 V AC/DC	**NZM1-XA48AC/DC** 259720		
				60 V AC/DC	**NZM1-XA60AC/DC** 259722		
				110 V – 130 V AC/DC	**NZM1-XA110-130AC/DC** 259724		
				208 V – 250 V AC/DC	**NZM1-XA208-250AC/DC** 259726		
				380 V – 440 V AC/DC	**NZM1-XA380-440AC/DC** 259728		
				480 V – 525 V AC/DC	**NZM1-XA480-525AC/DC** 259730		
				600 V AC/DC	**NZM1-XA600AC/DC** 259732		
		With 3 m connection cable instead of screw termination.	NZM1(-4), N1(-4)	12 V AC/DC	**NZM1-XAL12AC/DC** 259734		
				24 V AC/DC	**NZM1-XAL24AC/DC** 259736		
				48 V AC/DC	**NZM1-XAL48AC/DC** 259738		
				60 V AC/DC	**NZM1-XAL60AC/DC** 259740		
				110 V – 130 V AC/DC	**NZM1-XAL110-130AC/DC** 259742		
				208 V – 250 V AC/DC	**NZM1-XAL208-250AC/DC** 259744		
				380 V – 440 V AC/DC	**NZM1-XAL380-440AC/DC** 259746		
				480 V – 525 V AC/DC	**NZM1-XAL480-525AC/DC** 259748		
				600 V AC/DC	**NZM1-XAL600AC/DC** 259750		
					**NZM1-XAC12AC/DC** 266488	1 off	When the undervoltage release is de-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 NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release.
					NZM1-XAC24AC/DC 266489		
					NZM1-XAC48AC/DC 266490		
					NZM1-XAC60AC/DC 266491		
					NZM1-XAC110-130AC/DC 266492		
					NZM1-XAC208-250AC/DC 266493		
					NZM1-XAC380-440AC/DC 266494		
					NZM1-XAC480-525AC/DC 266495		
					NZM1-XAC600AC/DC 266496		
						1 off	When the undervoltage release is de-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 NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release.

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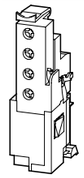
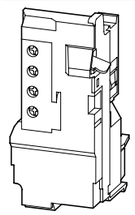
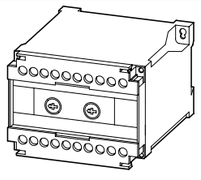
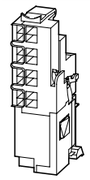
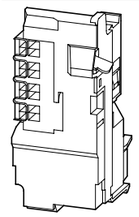
Circuit-breakers, switch-disconnectors up to 1600 A

			For use with	Rated control voltage U_s V	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
Shunt releases								
Without auxiliary contact Switches are tripped by a voltage pulse or by the application of uninterrupted voltage.								
	C1 C2	–	NZM2(-4), N2(-4) NZM3(-4), N3(-4)	12 V AC/DC	**NZM2/3-XA12AC/DC** 259752		1 off	When the undervoltage release is de-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 NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release.
				24 V AC/DC	**NZM2/3-XA24AC/DC** 259754			
				48 V AC/DC	**NZM2/3-XA48AC/DC** 259756			
				60 V AC/DC	**NZM2/3-XA60AC/DC** 259758			
				110 V – 130 V AC/DC	**NZM2/3-XA110-130AC/DC** 259760			
				208 V – 250 V AC/DC	**NZM2/3-XA208-250AC/DC** 259763			
				380 V – 440 V AC/DC	**NZM2/3-XA380-440AC/DC** 259766			
				480 V – 525 V AC/DC	**NZM2/3-XA480-525AC/DC** 259768			
				600 V AC/DC	**NZM2/3-XA600AC/DC** 259770			
	C1 C2	–	NZM4(-4), N4(-4)	12 V AC/DC	**NZM4-XA12AC/DC** 266446		1 off	When the undervoltage release is de-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 NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release.
				24 V AC/DC	**NZM4-XA24AC/DC** 266447			
				48 V AC/DC	**NZM4-XA48AC/DC** 266448			
				60 V AC/DC	**NZM4-XA60AC/DC** 266449			
				110 V – 130 V AC/DC	**NZM4-XA110-130AC/DC** 266450			
				208 V – 250 V AC/DC	**NZM4-XA208-250AC/DC** 266451			
				380 V – 440 V AC/DC	**NZM4-XA380-440AC/DC** 266452			
				480 V – 525 V AC/DC	**NZM4-XA480-525AC/DC** 266453			
				600 V AC/DC	**NZM4-XA600AC/DC** 266454			
Capacitor unit 230 V 50/60 Hz in conjunction with NZM...-XA2082-50AC/DC shunt release Enclosure: degree of protection IP20 not UL/CSA approved								
			NZM1(-4), N1(-4) NZM2(-4), N2(-4) NZM3(-4), N3(-4) NZM4(-4), N4(-4)	–	**NZM-XCM** 229413		1 off	Enables safe use of the circuit-breaker as a mesh network circuit-breaker in a range from 0 – 110 % U_n with constant shutdown time of 40 ms. If the mains voltage is absent, the installed capacitor supplies power for actuating the shunt release for at least 12 hours. The configuration of the capacitor unit is undertaken independently of the circuit-breaker. Connect NZM-XCM to the power feed side. Engineering note: Connect the standard auxiliary contact (HIN) als N/O in series to the coil of the shunt release. Standard auxiliary contact not supplied.
	C1 C2				**NZM2/3-XAC12AC/DC** 266506		1 off	When the undervoltage release is de-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 NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release.
					NZM2/3-XAC24AC/DC 266507			
					NZM2/3-XAC48AC/DC 266508			
					NZM2/3-XAC60AC/DC 266509			
					NZM2/3-XAC110-130AC/DC 266510			
					NZM2/3-XAC208-250AC/DC 266511			
					NZM2/3-XAC380-440AC/DC 266512			
					NZM2/3-XAC480-525AC/DC 266513			
					NZM2/3-XAC600AC/DC 266514			
	C1 C2				**NZM4-XAC12AC/DC** 266524		1 off	When the undervoltage release is de-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 NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release.
					NZM4-XAC24AC/DC 266525			
					NZM4-XAC48AC/DC 266526			
					NZM4-XAC60AC/DC 266527			
					NZM4-XAC110-130AC/DC 266528			
					NZM4-XAC208-250AC/DC 266529			
					NZM4-XAC380-440AC/DC 266530			
					NZM4-XAC480-525AC/DC 266531			
					NZM4-XAC600AC/DC 266532			

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Circuit-breakers, switch-disconnectors up to 1600 A

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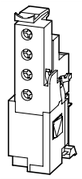
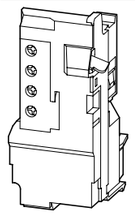
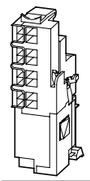
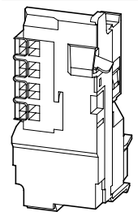
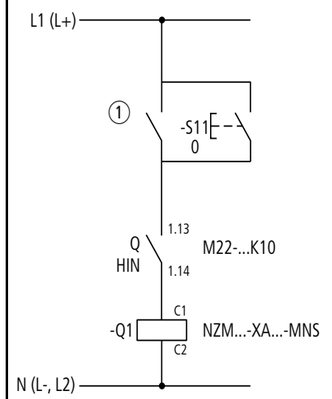
		For use with	Rated control voltage U_s V	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack
Shunt releases						
Without auxiliary contacts For mesh-network circuit-breakers For intermittent operation Maximum on time = 1 s Operating range 10 – 110 % U_s not UL/CSA approved						
		NZM3(-4), N3(-4)	230 V AC	**NZM3-XA-230AC-MNS** 274097		1 off
		NZM4(-4), N4(-4)	230 V AC	**NZM4-XA-230AC-MNS** 274138		1 off

		Part no. Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
		**NZM3-XAC-230AC-MNS** 274137		1 off	Cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release. Intermittent operation guaranteed by series connection of an M22-(C)K10 make contact. The maximum operating time of the shunt release for mesh network circuit-breaker is 1 s.
		**NZM4-XAC-230AC-MNS** 274140		1 off	



① Reverse-power relay contact
-S11 Remote off
Q Standard auxiliary contact
-Q1 Shunt release

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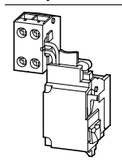
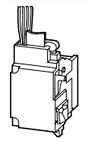
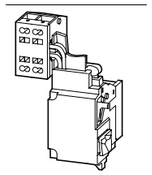
		For use with	Rated control voltage U_s V	**Part no.** Article no. when ordered separately
Shunt releases				
With early-make auxiliary contact				
	With clamp terminal on the left-hand switch side.	NZM1(-4), N1(-4)	12 V AC/DC	**NZM1-XAHIV12AC/DC** 259772
			24 V AC/DC	**NZM1-XAHIV24AC/DC** 259774
			48 V AC/DC	**NZM1-XAHIV48AC/DC** 259776
			60 V AC/DC	**NZM1-XAHIV60AC/DC** 259778
			110 V – 130 V AC/DC	**NZM1-XAHIV110-130AC/DC** 259780
			208 V – 250 V AC/DC	**NZM1-XAHIV208-250AC/DC** 259782
			380 V – 440 V AC/DC	**NZM1-XAHIV380-440AC/DC** 259784
			480 V – 525 V AC/DC	**NZM1-XAHIV480-525AC/DC** 259786
	With 3 m connection cable instead of screw termination.	NZM1(-4), N1(-4)	12 V AC/DC	**NZM1-XAHIVL12AC/DC** 259790
			24 V AC/DC	**NZM1-XAHIVL24AC/DC** 259792
			48 V AC/DC	**NZM1-XAHIVL48AC/DC** 259794
			60 V AC/DC	**NZM1-XAHIVL60AC/DC** 259796
			110 V – 130 V AC/DC	**NZM1-XAHIVL110-130AC/DC** 259798
			208 V – 250 V AC/DC	**NZM1-XAHIVL208-250AC/DC** 259800
			380 V – 440 V AC/DC	**NZM1-XAHIVL380-440AC/DC** 259802
			480 V – 525 V AC/DC	**NZM1-XAHIVL480-525AC/DC** 259804

	Part no. Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
	**NZM1-XAHIVC12AC/DC** 266542		1 off	When the shunt release is energized, accidental contact with the main contacts of the switch during attempts to switch on is safely prevented. Early-make of the auxiliary contact with on and off switching (manual operation): approx. 20 ms. Shunt release cannot be installed simultaneously with NZM...-XHIV.. early-make auxiliary contact or NZM...-XU... undervoltage release.
	NZM1-XAHIVC24AC/DC 266543			
	NZM1-XAHIVC48AC/DC 266544			
	NZM1-XAHIVC60AC/DC 266545			
	NZM1-XAHIVC110-130AC/DC 266546			
	NZM1-XAHIVC208-250AC/DC 266547			
	NZM1-XAHIVC380-440AC/DC 266548			
	NZM1-XAHIVC480-525AC/DC 266549			
			1 off	

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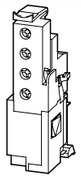
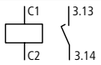
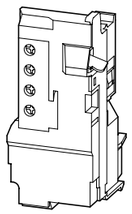
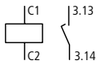
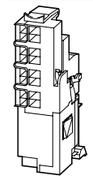
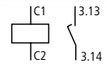
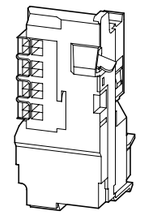
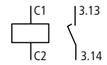
Circuit-breakers, switch-disconnectors up to 1600 A

			For use with	Rated control voltage U_s V	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
Shunt releases								
With early-make auxiliary contact								
		–	NZM2(-4), N2(-4) NZM3(-4), N3(-4)	12 V AC/DC	**NZM2/3-XAHIV12AC/DC** 259808			
				24 V AC/DC	**NZM2/3-XAHIV24AC/DC** 259810			
				48 V AC/DC	**NZM2/3-XAHIV48AC/DC** 259812			
				60 V AC/DC	**NZM2/3-XAHIV60AC/DC** 259814			
				110 V – 130 V AC/DC	**NZM2/3-XAHIV110-130AC/DC** 259816			
				208 V – 250 V AC/DC	**NZM2/3-XAHIV208-250AC/DC** 259818			
				380 V – 440 V AC/DC	**NZM2/3-XAHIV380-440AC/DC** 259820			
				480 V – 525 V AC/DC	**NZM2/3-XAHIV480-525AC/DC** 259822			
		–	NZM4(-4), N4(-4)	12 V AC/DC	**NZM4-XAHIV12AC/DC** 266470			
				24 V AC/DC	**NZM4-XAHIV24AC/DC** 266471			
				48 V AC/DC	**NZM4-XAHIV48AC/DC** 266472			
				60 V AC/DC	**NZM4-XAHIV60AC/DC** 266473			
				110 V – 130 V AC/DC	**NZM4-XAHIV110-130AC/DC** 266474			
				208 V – 250 V AC/DC	**NZM4-XAHIV208-250AC/DC** 266475			
				380 V – 440 V AC/DC	**NZM4-XAHIV380-440AC/DC** 266476			
				480 V – 525 V AC/DC	**NZM4-XAHIV480-525AC/DC** 266477			
					**NZM2/3-XAHIVC12AC/DC** 266560		1 off	When the shunt release is energized, accidental contact with the main contacts of the switch during attempts to switch on is safely prevented. Early-make of the auxiliary contact with on and off switching (manual operation): approx. 20 ms. Cannot be used in conjunction with NZM...-XR... remote operator. Shunt release cannot be installed simultaneously with NZM...-XHIV.. early-make auxiliary contact or NZM...-XU... undervoltage release.
					NZM2/3-XAHIVC24AC/DC 266561			
					NZM2/3-XAHIVC48AC/DC 266562			
					NZM2/3-XAHIVC60AC/DC 266563			
					NZM2/3-XAHIVC110-130AC/DC 266564			
					NZM2/3-XAHIVC208-250AC/DC 266565			
					NZM2/3-XAHIVC380-440AC/DC 266566			
					NZM2/3-XAHIVC480-525AC/DC 266567			
					**NZM4-XAHIVC12AC/DC** 266578		1 off	When the shunt release is energized, accidental contact with the main contacts of the switch during attempts to switch on is safely prevented. Early-make of the auxiliary contact with switch on (manual operation): approx. 90 ms. Cannot be used in conjunction with NZM...-XR... remote operator. Shunt release cannot be installed simultaneously with NZM...-XHIV.. early-make auxiliary contact or NZM...-XU... undervoltage release.
					NZM4-XAHIVC24AC/DC 266579			
					NZM4-XAHIVC48AC/DC 266580			
					NZM4-XAHIVC60AC/DC 266581			
					NZM4-XAHIVC110-130AC/DC 266582			
					NZM4-XAHIVC208-250AC/DC 266583			
					NZM4-XAHIVC380-440AC/DC 266584			
					NZM4-XAHIVC480-525AC/DC 266585			

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Circuit-breakers, switch-disconnectors up to 1600 A

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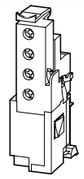
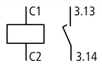
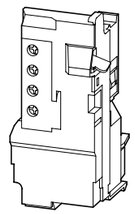
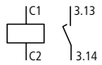
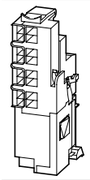
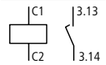
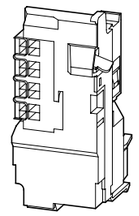
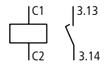
		For use with	Rated control voltage U_s V	Part no. Article no. when ordered separately	Price see price list	Std. pack	Notes
Shunt releases							
With early-make auxiliary contact For mesh-network circuit-breakers For intermittent operation Maximum on time = 1 s Operating range 10 – 110 % U_s not UL/CSA approved							
		NZM3(-4), N3(-4)	230 V AC	**NZM3-XAHIV-230AC-MNS** 274141			
		NZM4(-4), N4(-4)	230 V AC	**NZM4-XAHIV-230AC-MNS** 274143			
				**NZM3-XAHIVC-230AC-MNS** 274142		1 off	Cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release. Cannot be used in conjunction with NZM...-XR... remote operator. Intermittent operation guaranteed by series connection of a N/O contact M22-(C)K10 (standard auxiliary contact). The maximum operating time of the shunt release for mesh network circuit-breaker is 1 s. NZM3: Early-make of the auxiliary contact with on and off switching (manual operation): approx. 20 ms. NZM4: Early-make of the auxiliary contact with switch on (manual operation): approx. 90 ms.
				**NZM4-XAHIVC-230AC-MNS** 274144		1 off	

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Circuit-breakers, switch-disconnectors up to 1600 A

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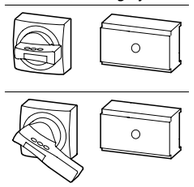
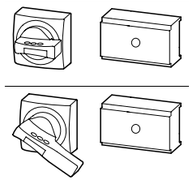
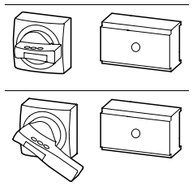
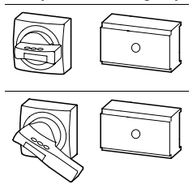
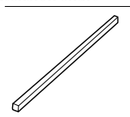
		For use with	Part no. Article no. when ordered separately	Price see price list	Std. pack	Notes	For a max. shaft length of 60 mm Part no. Article no. when ordered separately	Price see price list	Std. pack	Notes	Extremely narrow fittings Part no. Article no. when ordered separately	Price see price list	Std. pack	Notes
Door coupling rotary handle														
Complete including rotary drive and coupling parts An additional extension shaft is necessary with the NZM...-XT(V)D(V)(R)(-60) types. Degree of protection IP66/UL/CSA Type 4X														
Standard, black/grey														
	–	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XTD** 260160		1 off	NZM...-XTD • External warning plate/ designation label can be clipped on	**NZM1-XTD-60** 271500		1 off	NZM...-XTD-60 • For a maximum shaft length of 60 mm • Without shaft support • Cannot be combined with NZM...-XDZ additional handle • External warning plate/ designation label can be clipped on	**NZM1-XTD-0** 279358		1 off	NZM...-XTD-0 • For extremely narrow fittings • With special short extension shaft • Cannot be combined with NZM...-XDZ additional handle • External warning plate/ designation label can be clipped on
		NZM2(-4), PN2(-4), N2(-4)	**NZM2-XTD** 260162				**NZM2-XTD-60** 271501				**NZM2-XTD-0** 279359			
		NZM3(-4), PN3(-4), N3(-4)	**NZM3-XTD** 260164				**NZM3-XTD-60** 271502				**NZM3-XTD-0** 279390			
		NZM4(-4), N4(-4)	**NZM4-XTD** 266612				**NZM4-XTD-60** 271503				**NZM4-XTD-0** 279391			
	Lockable in 0 position on handle. With door interlock	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XTVD** 260166			Door interlock • Not defeated in the locked OFF and ON positions • Can be modified such that it can be defeated from the outside using a screwdriver, when it is in the unlocked ON position. • Door can be opened in OFF NZM...-XTVD(V) • External warning plate/ designation label can be clipped on	**NZM1-XTVD-60** 271504			Door interlock • Not defeated in the locked OFF and ON positions • Can be modified such that it can be defeated from the outside using a screwdriver, when it is in the unlocked ON position. • Door can be opened in OFF NZM...-XTVD(V)-60 • For maximum shaft length 60 mm • Without shaft support • Cannot be combined with NZM...-XDZ additional handle • External warning plate/ designation label can be clipped on	**NZM1-XTVD-0** 279392			Door interlock • Not defeated in the locked OFF and ON positions • Can be modified such that it can be defeated from the outside using a screwdriver, when it is in the unlocked ON position. • Door can be opened in OFF NZM...-XTVD(V)-0 • For extremely narrow fittings • With special short extension shaft • Cannot be combined with NZM...-XDZ additional handle • External warning plate/ designation label can be clipped on
		NZM2(-4), PN2(-4), N2(-4)	**NZM2-XTVD** 260168				**NZM2-XTVD-60** 271505				**NZM2-XTVD-0** 279393			
		NZM3(-4), PN3(-4), N3(-4)	**NZM3-XTVD** 260170				**NZM3-XTVD-60** 271506				**NZM3-XTVD-0** 279394			
		NZM4(-4), N4(-4)	**NZM4-XTVD** 266614				**NZM4-XTVD-60** 271507				**NZM4-XTVD-0** 279395			
	Lockable on handle and switch. Can be locked in 0 position, with adequate modification also in I position. With door interlock Lockable in 0 position on circuit-breaker.	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XTVDV** 260172				**NZM1-XTVDV-60** 271508				**NZM1-XTVDV-0** 279396			
		NZM2(-4), PN2(-4), N2(-4)	**NZM2-XTVDV** 260174				**NZM2-XTVDV-60** 271509				**NZM2-XTVDV-0** 279397			
		NZM3(-4), PN3(-4), N3(-4)	**NZM3-XTVDV** 260176				**NZM3-XTVDV-60** 271510				**NZM3-XTVDV-0** 279398			
		NZM4(-4), N4(-4)	**NZM4-XTVDV** 266616				**NZM4-XTVDV-60** 271511				**NZM4-XTVDV-0** 279399			
Red-yellow for Emergency-Stop														
	Lockable on handle and switch. Lockable in 0 position on handle. With door interlock Lockable in 0 position on circuit-breaker.	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XTVDVR** 260178		1 off	Door interlock • Not defeatable in the locked OFF position. • Can be modified such that it can be defeated from the outside using a screwdriver, when it is in the unlocked ON position. • Door can be opened in OFF NZM...-XTVDVR • External warning plate/ designation label can be clipped on	**NZM1-XTVDVR-60** 271512		1 off	Door interlock • Not defeatable in the locked OFF position. • Can be modified such that it can be defeated from the outside using a screwdriver, when it is in the unlocked ON position. • Door can be opened in OFF NZM...-XTVDVR-60 • For maximum shaft length 60 mm • Without shaft support • Cannot be combined with NZM...-XDZ additional handle • External warning plate/ designation label can be clipped on	**NZM1-XTVDVR-0** 279400		1 off	Door interlock • Not defeatable in the locked OFF position. • Can be modified such that it can be defeated from the outside using a screwdriver, when it is in the unlocked ON position. • Door can be opened in OFF NZM...-XTVDVR-0 • For extremely narrow fittings • With special short extension shaft • Cannot be combined with NZM...-XDZ additional handle • External warning plate/ designation label can be clipped on
		NZM2(-4), PN2(-4), N2(-4)	**NZM2-XTVDVR** 260180				**NZM2-XTVDVR-60** 271513				**NZM2-XTVDVR-0** 279401			
		NZM3(-4), PN3(-4), N3(-4)	**NZM3-XTVDVR** 260182				**NZM3-XTVDVR-60** 271514				**NZM3-XTVDVR-0** 279402			
		NZM4(-4), N4(-4)	**NZM4-XTVDVR** 266618				**NZM4-XTVDVR-60** 271515				**NZM4-XTVDVR-0** 279403			
Extension shaft														
	Max. mounting depth: 400 mm	NZM1(-4), PN1(-4), N1(-4) NZM2(-4), PN2(-4), N2(-4)	**NZM1/2-XV4** 261232		1 off	Can be cut to required length								
		NZM3(-4), PN3(-4), N3(-4) NZM4(-4), N4(-4)	**NZM3/4-XV4** 261234											
	Max. mounting depth: 600 mm	NZM1(-4), PN1(-4), N1(-4) NZM2(-4), PN2(-4), N2(-4)	**NZM1/2-XV6** 260191											
		NZM3(-4), PN3(-4), N3(-4) NZM4(-4), N4(-4)	**NZM3/4-XV6** 260193											

Notes Circuit-breaker can also be installed in a lying position 90 ° left/right, with the handle still in the same position.

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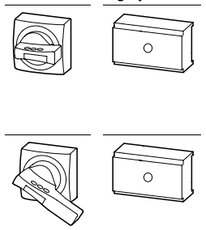
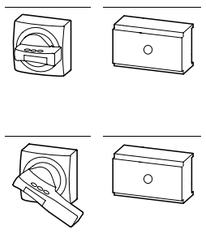
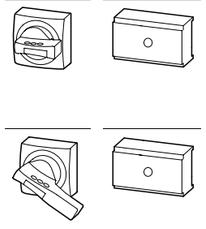
		For use with	Standard **Part no.** Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**	For a max. shaft length of 60 mm **Part no.** Article no. when ordered separately	**Price** see price list	**Notes**	Extremely narrow fittings **Part no.** Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
Door coupling rotary handle													
Complete including rotary drive and coupling parts Extension shaft additionally required. Degree of protection IP66/UL/CSA Type 4X													
Standard, black/grey													
	Lockable in 0 position on handle. With door interlock	NZM1, N1	**NZM1-XTVD-NA** 271445		1 off	Door interlock • Non defeatable in the locked OFF position. • Door opening possible after active rotation beyond the 0 position. • Cannot be combined with mechanical interlock • External warning plate/ designation label can be clipped on							
		NZM2, N2	**NZM2-XTVD-NA** 271446										
		NZM3, N3	**NZM3-XTVD-NA** 271447										
		NZM4, N4	**NZM4-XTVD-NA** 271448										
	Lockable on handle and switch. Can be locked in 0 position, with adequate modification also in I position. With door interlock Lockable in 0 position on breaker.	NZM1, N1	**NZM1-XTVDV-NA** 100683		1 off	Door interlock • Not defeated in the locked OFF position • Door opening possible with active rotation beyond the 0 position. • Cannot be combined with mechanical interlock • External warning plate/ designation label can be clipped on	**NZM1-XTVDV-60-NA** 100667		Door interlock • Not defeated in the locked OFF position • Door opening possible with active rotation beyond the 0 position. • Cannot be combined with mechanical interlock • External warning plate/ designation label can be clipped on NZM...-XTVDV-60-NA • For a maximum shaft length of 60 mm • Without shaft support • Cannot be combined with NZM...-XDZ additional handle • External warning plate/	**NZM1-XTVDV-0-NA** 100675		1 off	Door interlock • Not defeated in the locked OFF position • Door opening possible with active rotation beyond the 0 position. • Cannot be combined with mechanical interlock • External warning plate/ designation label can be clipped on NZM...-XTVDV-0-NA • For extremely narrow fittings • With special short extension shaft • Cannot be combined with NZM...-XDZ additional handle • External warning plate/ designation label can be clipped
		NZM2, N2	**NZM2-XTVDV-NA** 100684				**NZM2-XTVDV-60-NA** 100668			**NZM2-XTVDV-0-NA** 100676			
		NZM3, N3	**NZM3-XTVDV-NA** 100685				**NZM3-XTVDV-60-NA** 100669			**NZM3-XTVDV-0-NA** 100677			
		NZM4, N4	**NZM4-XTVDV-NA** 100686				**NZM4-XTVDV-60-NA** 100670			**NZM4-XTVDV-0-NA** 100678			
Red-yellow for Emergency-Stop													
	Lockable on handle and switch. Lockable in 0 position on handle. With door interlock Lockable in 0 position on breaker.	NZM1, N1	**NZM1-XTVDVR-NA** 271449		1 off	Door interlock • Not defeated in the locked OFF position • Door opening possible with active rotation beyond the 0 position. • Cannot be combinedwith mechanical interlock • External warning plate/ designation label can be clipped on	**NZM1-XTVDVR-60-NA** 100671		Door interlock • Not defeated in the locked OFF position • Door opening possible with active rotation beyond the 0 position. • Cannot be combined with mechanical interlock • External warning plate/ designation label can be clipped on NZM...-XTVDVR-60-NA • For a maximum shaft length of 60 mm • Without shaft support • Cannot be combined with NZM...-XDZ additional handle • External warning plate/	**NZM1-XTVDVR-0-NA** 100679		1 off	Door interlock • Not defeated in the locked OFF position • Door opening possible with active rotation beyond the 0 position. • Cannot be combined with mechanical interlock • External warning plate/ designation label can be clipped on NZM...-XTVDVR-0-NA • For extremely narrow fittings • With special short extension shaft • Cannot be combined with NZM...-XDZ additional handle • External warning plate/ designation label can be clipped
		NZM2, N2	**NZM2-XTVDVR-NA** 271450				**NZM2-XTVDVR-60-NA** 100672			**NZM2-XTVDVR-0-NA** 100680			
		NZM3, N3	**NZM3-XTVDVR-NA** 271451				**NZM3-XTVDVR-60-NA** 100673			**NZM3-XTVDVR-0-NA** 100681			
		NZM4, N4	**NZM4-XTVDVR-NA** 271452				**NZM4-XTVDVR-60-NA** 100674			**NZM4-XTVDVR-0-NA** 100682			
Extension shaft													
	Max. mounting depth: 400 mm	NZM1(-4), PN1(-4), N1(-4) NZM2(-4), PN2(-4), N2(-4)	**NZM1/2-XV4** 261232		1 off	Can be cut to required length							
		NZM3(-4), PN3(-4), N3(-4) NZM4(-4), N4(-4)	**NZM3/4-XV4** 261234										
	Max. mounting depth: 600 mm	NZM1(-4), PN1(-4), N1(-4) NZM2(-4), PN2(-4), N2(-4)	**NZM1/2-XV6** 260191										
		NZM3(-4), PN3(-4), N3(-4) NZM4(-4), N4(-4)	**NZM3/4-XV6** 260193										

Notes Circuit-breaker can also be installed in a lying position 90 ° left/right, with the handle still in the same position.

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		For use with	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
Rotary handles						
Complete with rotary drive						
Standard, black/grey						
	–	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XD** 260116		1 off	NZM1, 2, 3: Can also be combined with insulating surround.
		NZM2(-4), PN2(-4), N2(-4)	**NZM2-XD** 260121			
		NZM3(-4), PN3(-4), N3(-4)	**NZM3-XD** 260123			
		NZM4(-4), N4(-4)	**NZM4-XD** 266606			
	Lockable on the 0 position on the switch using up to 3 padlocks.	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XDV** 260125			NZM1, 2, 3: Can also be combined with insulating surround. MODAN handle position detection by wire release can be retrofitted.
		NZM2(-4), PN2(-4), N2(-4)	**NZM2-XDV** 260127			
		NZM3(-4), PN3(-4), N3(-4)	**NZM3-XDV** 260129			
		NZM4(-4), N4(-4)	**NZM4-XDV** 266608			
	Lockable on the 0 position on the handle using up to 3 padlocks.	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XDVG** 285247			Can also be combined with insulating surround.
		NZM2(-4), PN2(-4), N2(-4)	**NZM2-XDVG** 285248			
Red-yellow for Emergency-Stop						
	Lockable on the 0 position on the switch using up to 3 padlocks.	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XDVR** 260135		1 off	NZM1, 2, 3: Can also be combined with insulating surround. MODAN handle position detection by wire release can be retrofitted.
		NZM2(-4), PN2(-4), N2(-4)	**NZM2-XDVR** 260137			
		NZM3(-4), PN3(-4), N3(-4)	**NZM3-XDVR** 260140			
		NZM4(-4), N4(-4)	**NZM4-XDVR** 266610			
	Lockable on the 0 position on the handle using up to 3 padlocks.	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XDVGR** 285249			Can also be combined with insulating surround.
		NZM2(-4), PN2(-4), N2(-4)	**NZM2-XDVGR** 285280			

Notes Circuit-breaker can also be installed in a lying position 90 ° left/right, with the handle still in the same position.

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		For use with	Part no. Article no.	Price see price list	Std. pack	Notes
Rotary handles on switch with door interlock						
Complete with rotary drive and insulating surround						
Standard, black/grey						
	Can be locked in 0 position, with adequate modification also in I position. Also available with door interlock e.g. for MCC service distribution	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XDTV** 260131		1 off	Door interlock • In the ON position, can be defeated from the outside using a 1 mm pin • Not defeated in the locked OFF and ON positions • Door can be opened in OFF • Can only be switched ON when the door is closed
		NZM2(-4), PN2(-4), N2(-4)	**NZM2-XDTV** 260133			
Red-yellow for Emergency-Stop						
	Lockable in 0 position on handle. Also available with door interlock e.g. for MCC service distribution	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XDTVR** 260142		1 off	
		NZM2(-4), PN2(-4), N2(-4)	**NZM2-XDTVR** 260144			
Rotary handle on switch with door interlock for UL/CSA approved NA switches						
Divergent to normal IEC handles: door opening only possible after active rotation beyond the 0 position. Complete with rotary drive and insulating surround						
Standard, black/grey						
	Can be locked in 0 position, with adequate modification also in I position. Available with door interlock e.g. for MCC service distribution.	NZM1, N1	**NZM1-XDTV-NA** 271453		1 off	Door interlock • In the ON position, can be defeated from the outside using a 1 mm pin • Not defeated in the locked OFF and ON positions • Door opening only possible with active rotation beyond the 0 position. • Can only be switched ON when the door is closed • Cannot be combined with mechanical interlock
		NZM2, N2	**NZM2-XDTV-NA** 271454			
Red-yellow for Emergency-Stop						
	Lockable in 0 position on handle. Available with door interlock e.g. for MCC service distribution.	NZM1, N1	**NZM1-XDTVR-NA** 271455			
		NZM2, N2	**NZM2-XDTVR-NA** 271456			

Notes Circuit-breaker can also be installed in a lying position 90 ° left/right, with the handle still in the same position.

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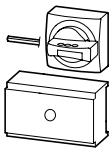
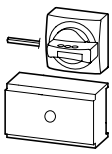
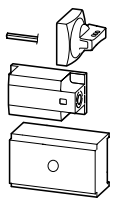
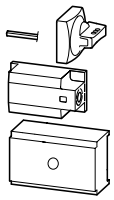
			For use with	Part no. Article no. when ordered separately	Price see price list	Std. pack
Main switch assembly kit						
Equipment supplied: • Rotary door-coupling handle • NZM...-XV4 extension shaft • External warning plate/designation label in German/English • Black and yellow flash For enhanced protection against direct contact on the incomer side, IP2X protection against contact with a finger can be ordered → 97 Other external warning plates/designation labels can be clipped on.						
With black door coupling rotary handle						
	Lockable in 0 position on handle. With door interlock	–	NZM1(-4) PN1(-4), N1(-4)	**NZM1-XHB** 266626		1 off
			NZM2(-4) PN2(-4), N2(-4)	**NZM2-XHB** 266627		
			NZM3(-4) PN3(-4), N3(-4)	**NZM3-XHB** 266628		
			NZM4(-4) N4(-4)	**NZM4-XHB** 271779		
With red door coupling rotary handle for using switch as Emergency-Stop device according to IEC/EN 602041						
	Lockable in 0 position on handle. Lockable door, locking facility on circuit-breaker in 0 position.	–	NZM1(-4) PN1(-4), N1(-4)	**NZM1-XHBR** 266632		
			NZM2(-4) PN2(-4), N2(-4)	**NZM2-XHBR** 266633		
			NZM3(-4) PN3(-4), N3(-4)	**NZM3-XHBR** 266634		
			NZM4(-4) N4(-4)	**NZM4-XHBR** 271842		
Main switch assembly kit for side panel mounting						
Actuation of the switch on the control panel side wall **Switch mounting on mounting plate** Equipment supplied: • Door coupling rotary handle • NZM...-XV4 extension shaft • External warning plate/designation label in German/English • Black and yellow flash For enhanced protection against direct contact on the incomer side, IP2X protection against contact with a finger can be ordered → 97 Other external warning plates/designation labels can be clipped on.						
Standard, black/grey						
	Can be locked in 0 position, with adequate modification also in I position.	For operation on the left	NZM1(-4) PN1(-4), N1(-4)	**NZM1-XS-L** 266641		1 off
			NZM2(-4) PN2(-4), N2(-4)	**NZM2-XS-L** 266642		
			NZM3(-4) PN3(-4), N3(-4)	**NZM3-XS-L** 266643		
			NZM4(-4) N4(-4)	**NZM4-XS-L** 289806		
		For operation on the right	NZM1(-4) PN1(-4), N1(-4)	**NZM1-XS-R** 266644		
			NZM2(-4) PN2(-4), N2(-4)	**NZM2-XS-R** 266645		
			NZM3(-4) PN3(-4), N3(-4)	**NZM3-XS-R** 266646		
			NZM4(-4) N4(-4)	**NZM4-XS-R** 289807		
Red-yellow for Emergency-Stop						
	Lockable in 0 position on handle.	For operation on the left	NZM1(-4) PN1(-4), N1(-4)	**NZM1-XSR-L** 266653		
			NZM2(-4) PN2(-4), N2(-4)	**NZM2-XSR-L** 266654		
			NZM3(-4) PN3(-4), N3(-4)	**NZM3-XSR-L** 266655		
			NZM4(-4) N4(-4)	**NZM4-XSR-L** 289808		
		For operation on the right	NZM1(-4) PN1(-4), N1(-4)	**NZM1-XSR-R** 266656		
			NZM2(-4) PN2(-4), N2(-4)	**NZM2-XSR-R** 266657		
			NZM3(-4) PN3(-4), N3(-4)	**NZM3-XSR-R** 266658		
			NZM4(-4) N4(-4)	**NZM4-XSR-R** 289809		

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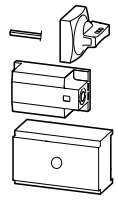
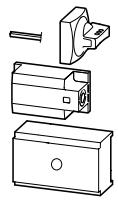
			For use with	Part no. Article no. when ordered separately	Price see price list	Std. pack
Main switch assembly kit for side wall installation						
Actuation of the switch on the control panel door. Mounting the breaker on the control panel side wall Equipment supplied: • Door coupling rotary handle • NZM...-XV4 extension shaft • External warning plate/designation label in German/English • Black and yellow flash For enhanced protection against direct contact on the incomer side, IP2X protection against contact with a finger can be ordered → 97 Other external warning plates/designation labels can be clipped on.						
Standard, black/grey						
	Lockable on handle and switch. Can be locked in 0 position, with adequate modification also in I position. Tamperproof with door interlock in closed OFF and ON position.	For operation on the left	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XSF-L** 289810		1 off
			NZM2(-4), PN2(-4), N2(-4)	**NZM2-XSF-L** 289811		
			NZM3(-4), PN3(-4), N3(-4)	**NZM3-XSF-L** 289812		
			NZM4(-4), N4(-4)	**NZM4-XSF-L** 289813		
		For operation on the right	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XSF-R** 289814		
			NZM2(-4), PN2(-4), N2(-4)	**NZM2-XSF-R** 289815		
			NZM3(-4), PN3(-4), N3(-4)	**NZM3-XSF-R** 289816		
			NZM4(-4), N4(-4)	**NZM4-XSF-R** 289817		
Red-yellow for Emergency-Stop						
	Lockable on handle and switch. Lockable in 0 position on handle. Tamperproof with door interlock in closed OFF position.	For operation on the left	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XSRF-L** 289818		1 off
			NZM2(-4), PN2(-4), N2(-4)	**NZM2-XSRF-L** 289819		
			NZM3(-4), PN3(-4), N3(-4)	**NZM3-XSRF-L** 289820		
			NZM4(-4), N4(-4)	**NZM4-XSRF-L** 289821		
		For operation on the right	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XSRF-R** 289822		
			NZM2(-4), PN2(-4), N2(-4)	**NZM2-XSRF-R** 289823		
			NZM3(-4), PN3(-4), N3(-4)	**NZM3-XSRF-R** 289824		
			NZM4(-4), N4(-4)	**NZM4-XSRF-R** 289825		

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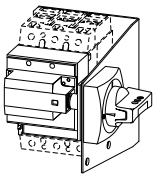
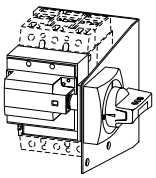
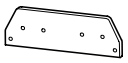
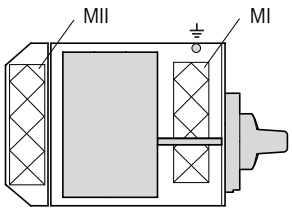
		For use with		Part no. Article no. when ordered separately	Price see price list	Std. pack
Main switch assembly kit for side panel mounting with mounting bracket						
For direct mounting of circuit-breaker and handle in the side wall of the control cabinet Equipment supplied: • Door coupling rotary handle • Mounting bracket • Special short extension shaft • External warning plate/designation label in German/English • Black and yellow flash For enhanced protection against direct contact on the incomer side, IP2X protection against contact with a finger can be ordered → 97 Other external warning plates/designation labels can be clipped on.						
Standard, black/grey						
	Can be locked in 0 position, with adequate modification also in I position. Narrowest minimum clearance between enclosure side plates of control panel and circuit-breaker is defined by mounting bracket. Extensions cannot be used.	For operation on the left	NZM1(-4) PN1(-4), N1(-4)	**NZM1-XSM-L** 266663		1 off
		For operation on the left	NZM2(-4) PN2(-4), N2(-4)	**NZM2-XSM-L** 266664		
		For operation on the right	NZM1(-4) PN1(-4), N1(-4)	**NZM1-XSM-R** 266665		
		For operation on the right	NZM2(-4) PN2(-4), N2(-4)	**NZM2-XSM-R** 266666		
Red-yellow for Emergency-Stop						
	Lockable in 0 position on handle. Narrowest minimum clearance between enclosure side plates of control panel and circuit-breaker is defined by mounting bracket. Extensions cannot be used.	For operation on the left	NZM1(-4) PN1(-4), N1(-4)	**NZM1-XSRM-L** 266671		1 off
		For operation on the left	NZM2(-4) PN2(-4), N2(-4)	**NZM2-XSRM-L** 266672		
		For operation on the right	NZM1(-4) PN1(-4), N1(-4)	**NZM1-XSRM-R** 266673		
		For operation on the right	NZM2(-4) PN2(-4), N2(-4)	**NZM2-XSRM-R** 266674		
Add-on plate						
For fitting to the mounting bracket when using N conductor or PE conductor terminals K25, K50, K95 or K150.						
	–	–	NZM1(-4), PN1(-4), N1(-4) NZM2(-4), PN2(-4), N2(-4)	**NZM1/2-XZB** 266676		1 off

Additional terminal arrangement for side wall operator with mounting bracket
NZM1-XS(R)M-..., NZM2-XS(R)M-...
Additional terminals K25, K50, K95, K150

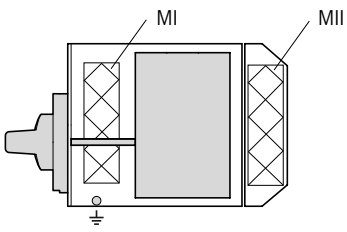
Actuation:

3-pole

For operation on the right

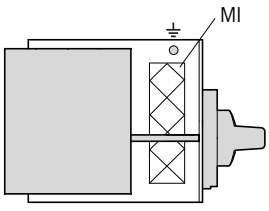


For operation on the left

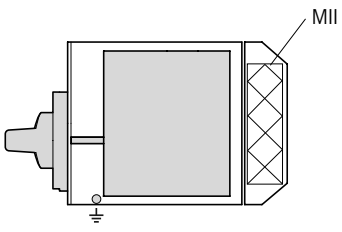


4-pole

For operation on the right



For operation on the left



Mounting areas		MI				MII	
Variation options		V1	V2	V3	V4	V1	V2
Maximum number of additional terminals	K25	2 ×	–	–	–	–	–
	K50	–	2 ×	–	–	–	–
	K95	–	–	1 ×	–	1 ×	–
	K150	–	–	–	1 ×	–	1 ×

Example: In mounting area MI, variation option 1 allows the K25 additional terminal to be mounted twice.

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		For use with	Part no. Article no. when ordered separately	Price see price list	Std. pack	Notes
External warning/marking plate						
"Main switch – open in 0 position"						
German/English		NZM1(-4), PN1(-4), N1(-4) NZM2(-4), PN2(-4), N2(-4) NZM3(-4), PN3(-4), N3(-4) NZM4(-4), N4(-4)	**ZFS61/62-NZM7** 272525		10 off	A bilingual external warning plate/ designation label in German/English is already included in the main switch assembly kit.
German			**ZFS61-NZM7** 051089			
English			**ZFS62-NZM7** 065957			
French			**ZFS63-NZM7** 065958			
Blank (for engraving or printing)			**ZFS60-NZM7** 065896			
Further languages			**ZFS*-NZM7** 999978			External warning plates are available in the following languages: 64 Bulgarian 73 Romanian 65 Danish 74 Russian 66 Finnish 75 Swedish 67 Dutch 76 Serbo-Croatian 68 Italian 77 Spanish 69 Greek 78 Czech 70 Norwegian 79 Turkish 71 Polish 80 Hungarian 72 Portugese 81 Afrikaans To obtain the reference for ordering, insert the language code number into the type reference required **Ordering example** External warning plate in Finnish: ZFS**66**-NZM7
Lightning symbol						
For main switches						
small 		NZM1(-4), PN1(-4), N1(-4) NZM2(-4), PN2(-4), N2(-4)	**BPF-NZM7** 217294		10 off	Included as standard in main switch assembly kit
large 		NZM3(-4), PN3(-4), N3(-4) NZM4(-4), N4(-4)	**BPF-NZM10** 231363		10 off	

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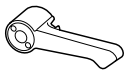
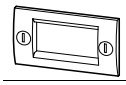
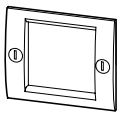
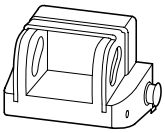
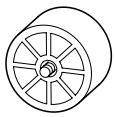
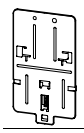
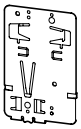
	For use with	Part no. Article no. when ordered separately	Price see price list	Std. pack	Notes
Add-on handle					
Enables switching when the control panel door is open					
	NZM1(-4), PN1(-4), N1(-4) NZM2(-4), PN2(-4), N2(-4)	**NZM1/2-XDZ** 266621		1 off	Push-fits on to the extension shaft 100 mm free extension shaft required.
	NZM3(-4), PN3(-4), N3(-4) NZM4(-4), N4(-4)	**NZM3/4-XDZ** 266622		1 off	
Insulating surrounds					
For toggle lever, rotary handle with rotary drive and remote operator.					
	NZM1(-4) PN1(-4), N1(-4)	**NZM1-XBR** 260195		1 off	For oblong cut-out on doors and enclosures with material thicknesses of 1.5 – 5 mm. External warning plate/designation label can be clipped on NZM4-XBR cannot be combined with rotary handle with rotary drive.
	NZM2(-4) PN2(-4), N2(-4)	**NZM2-XBR** 260197			
	NZM3(-4) PN3(-4), N3(-4)	**NZM3-XBR** 284645			
	NZM4(-4) N4(-4)	**NZM4-XBR** 284646			
Toggle lever locking device					
Off position lockable using up to 3 padlocks (hasp thickness 4 – 8 mm)					
	NZM1(-4) PN1(-4), N1(-4)	**NZM1-XKAV** 260199		1 off	Cannot be combined with insulating surround.
	NZM2(-4), PN2(-4), N2(-4) NZM3(-4), PN3(-4), N3(-4)	**NZM2/3-XKAV** 260201		1 off	
Spacers					
Enables fast and low-priced adjustment of differing frame sizes with/without rotary handle to the same front depth					
	NZM1(-4), PN1(-4), N1(-4) NZM2(-4), PN2(-4), N2(-4)	**NZM1/2-XAB** 260203		1 set	Grid depth 17.5 mm, M4 thread Type contains 4 off spacer Maximum component capacity: NZM1: 4 units per fixing screw, NZM2: 2 units per fixing screw 2 (NZM1) or 4 (NZM2) fixing screws contained per circuit-breaker
	NZM3(-4) PN3(-4), N3(-4) NZM4(-4) N4(-4)	**NZM3-XAB** 260211		1 set	Grid depth 17.5 mm, M5 thread One set contains 4 spacers NZM3, NZM4: 1 off per fixing screw 4 fixing screws per switch included
Clip plate					
Enables snap-fit of the circuit-breaker to a DIN rail					
	NZM1(-4) PN1(-4) N1(-4)	**NZM1-XC35** 260213		1 off	For top-hat rail 35 mm
	NZM2 PN2 N2	**NZM2-XC75** 260215		1 off	For top-hat rail 75 mm Not suitable for circuit-breakers with remote operator.

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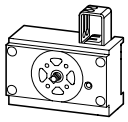
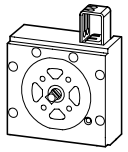
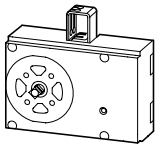
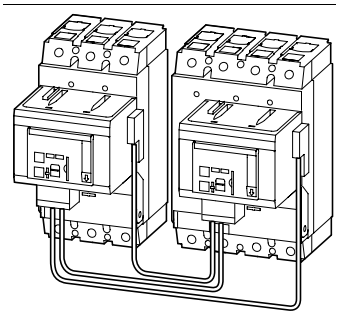
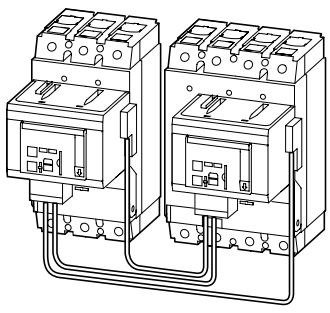
	For use with	Part no. Article no. when ordered separately	Price see price list	Std. pack	Notes
Mechanical interlocking of (door coupling) rotary handles					
	NZM1(-4) PN1(-4), N1(-4)	**NZM1-XMV** 281581		1 off	Rotary handles on switches or door coupling rotary handles are additionally required. Cannot be combined with paralleling mechanisms, side wall operators and remote operator as well as NZM4-XBR insulating surrounds. Cannot be combined with rotary handles and door coupling rotary handles for -UL/CSA approved NA switches. In order to establish a mechanical interlock at least 2 interlock modules are required. Possible combinations and interlock variants → engineering Order Bowden cables separately
	NZM2(-4) PN2(-4), N2(-4)	**NZM2-XMV** 281582			
	NZM3(-4) PN3(-4), N3(-4)	**NZM3-XMV** 281583			
	NZM4(-4) N4(-4)	**NZM4-XMV** 281584			
Bowden cables					
For mechanical interlocking of (door coupling) rotary handles					
	NZM1(-4), PN1(-4), N1(-4) NZM2(-4), PN2(-4), N2(-4) NZM3(-4), PN3(-4), N3(-4) NZM4(-4), N4(-4)	**NZM-XBZ225** 281585		1 off	–
		NZM-XBZ600 281586			
		NZM-XBZ1000 281587			
Mechanical interlock for remote operator					
For 2 switches of the same or next frame size with each other. Mounting beside one another.					
	NZM2(-4), N2(-4) +NZM2(-4), N2(-4)	**NZM2-XMVR**[1)] 104543		1 off	Type contains parts for both switches. Remote operator also required. Maximum switching distance → engineering Cannot be combined with rotary handles, door coupling rotary handles and early-make auxiliary contacts.
	NZM2(-4), N2(-4) +NZM3(-4), N3(-4)	**NZM2/3-XMVR**[1)] 104544			
	NZM3(-4), N3(-4) +NZM3(-4), N3(-4)	**NZM3-XMVR**[1)] 104545			
	NZM3(-4), N3(-4) +NZM4(-4), N4(-4)	**NZM3/4-XMVR**[1)] 104546			
	NZM4(-4), N4(-4) +NZM4(-4), N4(-4)	**NZM4-XMVR**[1)] 104547			
For 2 switches of the same or next frame size with each other. Extra long Bowden cables for mounting in neighbouring control panel fields.					
	NZM2(-4), N2(-4) +NZM2(-4), N2(-4)	**NZM2-XMVRL**[1)] 104548		1 off	Type contains parts for both switches. Remote operator also required. Maximum switching distance → engineering Cannot be combined with rotary handles, door coupling rotary handles and early-make auxiliary contacts.
	NZM2(-4), N2(-4) +NZM3(-4), N3(-4)	**NZM2/3-XMVRL**[1)] 104549			
	NZM3(-4), N3(-4) +NZM3(-4), N3(-4)	**NZM3-XMVRL**[1)] 104550			
	NZM3(-4), N3(-4) +NZM4(-4), N4(-4)	**NZM3/4-XMVRL**[1)] 104551			
	NZM4(-4), N4(-4) +NZM4(-4), N4(-4)	**NZM4-XMVRL**[1)] 104552			

Notes [1)] on request

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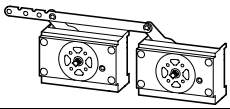
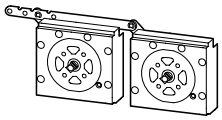
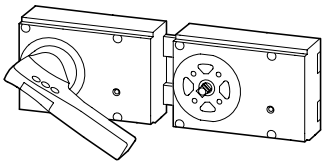
	For use with	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
Paralleling mechanism Simultaneous actuation of 2 PN switch-disconnectors of the same type mounted side-by-side.					
	PN1(-4) + PN1(-4)	**PN1-XPA** 283471		1 off	Rotary handle on switch or door coupling rotary handle per PN... is additionally required. Combinations as required are also possible. Cannot be combined with mechanical interlock, insulating surrounds, side wall operators or remote operators. PN3-XPA: Only in conjunction with **non** lockable rotary handles or door coupling rotary handles. • Rotary handle on switch: NZM3...-XD • Door coupling rotary handle: NZM3...-XTD Not suitable for use as a main switch.
	PN2(-4) + PN2(-4)	**PN2-XPA** 283472			
	PN3(-4) + PN3(-4)	**PN3-XPA**[1)] 283473			

Notes [1)] A non-lockable rotary handle is supplied (necessary due to the double torque).

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	For use with	Rated control voltage U_s V	Part no. Article no. when ordered separately	Price see price list	Std. pack
Remote operator					
For remote switching of circuit-breakers and switch-disconnectors. ON and OFF switching and resetting by means of 2-wire or 3-wire control. Can be synchronized. Local switching by hand possible Lockable in the 0 position of the remote operator with up to 3 padlocks (hasp thickness: 4 – 8 mm)					
	NZM2(-4) N2(-4)	48 – 60 V 50/60 Hz	**NZM2-XR48-60AC** 259828		1 off
		110 – 130 V 50/60 Hz	**NZM2-XR110-130AC** 259830		
		208 – 240 V 50/60 Hz	**NZM2-XR208-240AC** 259832		
		380 – 440 V 50/60 Hz	**NZM2-XR380-440AC** 259834		
		24 – 30 V DC	**NZM2-XR24-30DC** 259836		
		48 – 60 V DC	**NZM2-XR48-60DC** 259838		
		110 – 130 V DC	**NZM2-XR110-130DC** 259840		
		220 – 250 V DC	**NZM2-XR220-250DC** 259842		
	NZM3(-4) N3(-4)	48 – 60 V 50/60 Hz	**NZM3-XR48-60AC** 259846		
		110 – 130 V 50/60 Hz	**NZM3-XR110-130AC** 259848		
		208 – 240 V 50/60 Hz	**NZM3-XR208-240AC** 259850		
		380 – 440 V 50/60 Hz	**NZM3-XR380-440AC** 259852		
		24 – 30 V DC	**NZM3-XR24-30DC** 259854		
		48 – 60 V DC	**NZM3-XR48-60DC** 259856		
		110 – 130 V DC	**NZM3-XR110-130DC** 259858		
		220 – 250 V DC	**NZM3-XR220-250DC** 259860		
	NZM4(-4) N4(-4)	48 – 60 V 50/60 Hz	**NZM4-XR48-60AC** 266683		
		110 – 130 V 50/60 Hz	**NZM4-XR110-130AC** 266684		
		208 – 240 V 50/60 Hz	**NZM4-XR208-240AC** 266685		
		380 – 440 V 50/60 Hz	**NZM4-XR380-440AC**[1)] 266686		
		24 – 30 V DC	**NZM4-XR24-30DC** 266691		
		48 – 60 V DC	**NZM4-XR48-60DC** 266692		
		110 – 130 V DC	**NZM4-XR110-130DC** 266693		
		220 – 250 V DC	**NZM4-XR220-250DC** 266694		
Shroud for 4th pole Additional shroud for mounting the NZM2-XR... and NZM3-XR... on a 4-pole switch.					
	NZM2-4 N2-4	–	**NZM2-XAVPR** 266677		1 off
	NZM3-4 N3-4	–	**NZM3-XAVPR** 266678		1 off
Clamp terminal springloaded clamp Control circuit terminal springloaded terminals					
	NZM...-XR...	–	**NZM-XRC** 266696		1 off

Notes [1)] Not UL/CSA approved.

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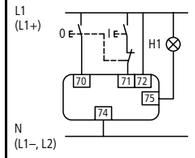
Notes

Remote operator are combinable with NZM circuit-breakers and N switch-disconnectors but not with PN switch-disconnectors.

A standard auxiliary contact (HIN) for the switch position detection is supplied.

When installing the NZM2-XR... and NZM3-XR... remote operators on 4-pole switches, an additional 4th pole NZM2-XAVPR or NZM3-XAVPR shroud is necessary.

3-wire control



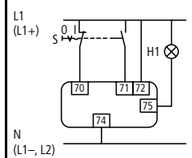
Terminal 70/71:

Please note during engineering:

Full current flows through the contact during make and break!

RMQ series contact elements can be used for the NZM2(3,4)-XR... remote operators.

2-wire control



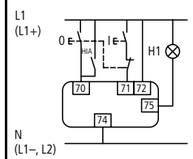
Terminal 75:

Ready for activation signal after the cover is closed and not locked.

AC-15: 400 V; 2 A

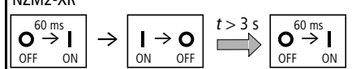
DC-13: 220 V; 0.2 A

3-wire control with automatic reset to the OFF position after the switch has tripped



Switching cycle:

NZM2-XR

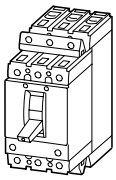
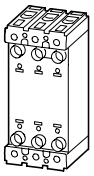
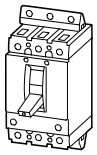


NZM3-XR

NZM4-XR

The time interval between OFF and ON is 3 seconds.

On commands received during the time interval are ignored within the first 3 seconds after switch off.

	For use with	Number of poles	**Part no.** Article no. when ordered with basic unit	**Price** see price list	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
Plug-in units								
For circuit-breakers NZM and switch-disconnectors N not UL/CSA approved								
Plug-in adapter elements Complete Only in combination with circuit-breaker								
	NZM2 N2	3 pole	**+NZM2-XSV** 266697				1 off	$I_{nmax.}$ at: 20 °C: 250 A 40 °C: 230 A (NZM...2-...) 250 A (NZM...2-E...) Mounting position: vertical, 90° right, 90° left Order control circuit plug unit separately!
	NZM2-4 N2-4	4 pole	**+NZM2-4-XSV** 266698				1 off	
Sockets e.g. for reserved slots Retrofit of circuit-breaker with plug-in module.								
	NZM2 N2	3 pole			**NZM2-XSVS** 266699		1 off	
	NZM2-4 N2-4	4 pole			**NZM2-4-XSVS** 266700		1 off	
Removable module Fits socket base Only in combination with circuit-breaker								
	NZM2 N2	3 pole	**+NZM2-XSVE** 266701				1 off	
	NZM2-4 N2-4	4-pole	**+NZM2-4-XSVE** 266702				1 off	
Control circuit plug unit								
	NZM2(-4) N2(-4)	for auxiliary contact, shunt/undervoltage			**NZM2-XSVHI** 266705		1 off	–
	NZM2(-4) N2(-4)	for remote operator			**NZM2-XSVR** 266706		1 off	–

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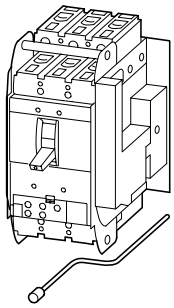
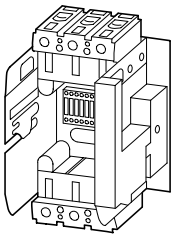
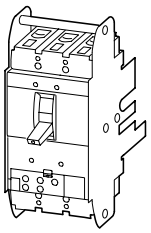
	For use with	Number of poles	Part no. Article no. when ordered with basic unit	Price see price list	Part no. Article no. when ordered separately	Price see price list	Std. pack	Notes
Withdrawable unit with control circuit plug unit For circuit-breakers NZM and switch-disconnectors N not UL/CSA approved								
Withdrawable unit with auxiliary plug-in adapter Complete Only in combination with circuit-breaker								
	NZM3 N3	3 pole	**+NZM3-XAV** 266707				1 off	$I_{nmax.}$ at: 20 °C: 605 A (NZM3), 1600 A (NZM4) 40 °C: 550 A (NZM3), 1500 A (NZM4) Mounting position: NZM3: vertical, 90 ° left NZM4: vertical, 3 positions Connected, test, disconnected The 3 positions are indicated mechanically. Additionally, auxiliary contacts are use for remote signalling. An optional M22-(C)K01 N/C contact or M22-(C)K10 N/O contact per position. Also see the RMQ-Titan control circuit device range. All connections of auxiliary switches (HIA, HIN, HIV) and undervoltage and shunt releases to the control circuit plug units are already present. Cannot be combined with NZM4/NZM14 (NZM4-XSAS14-...) or N(ZM)4/N(ZM)12 adapter kits.
	NZM3-4 N3-4	4 pole	**+NZM3-4-XAV** 266708					
	NZM4 N4	3 pole	**+NZM4-XAV** 266709					
	NZM4-4 N4-4	4 pole	**+NZM4-4-XAV** 266710					
Socket base e.g. for reserved slots Retrofit of circuit-breaker with withdrawable carrier.								
	NZM3 N3	3 pole			**NZM3-XAVS** 266711		1 off	
	NZM3-4 N3-4	4 pole			**NZM3-4-XAVS** 266712			
	NZM4 N4	3 pole			**NZM4-XAVS** 266713			
	NZM4-4 N4-4	4-pole			**NZM4-4-XAVS** 266714			
Withdrawable carrier Not UL/CSA approved.								
	NZM3 N3	3 pole	**+NZM3-XAVE** 266715				1 off	
	NZM3-4 N3-4	4 pole	**+NZM3-4-XAVE** 266716					
	NZM4 N4	3 pole	**+NZM4-XAVE** 266717					
	NZM4-4 N4-4	4 pole	**+NZM4-4-XAVE** 266718					

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Circuit-breakers, switch-disconnectors up to 1600 A

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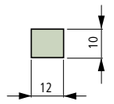
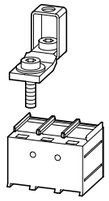
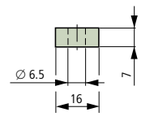
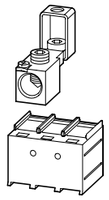
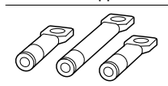
	Max. cable connection	For use with		Terminal capacities Type of conductor	Terminal capacities mm²	AWG/kcmil	Terminal capacities Cu strip (number of segments × width × segment thickness) mm	Copper busbar width × thickness mm	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
Box terminal												
Standard equipment												
		NZM1(-4), PN1(-4), N(S)1(-4)	Three- and four-pole	Cu cable	1 × 10 – 70[1)] 2 × 6 – 25	1 × 8 – 2/0	2 × 9 × 0.8		**NZM1-XKC** 260015 **NZM1-4-XKC** 267075		1 off 1 off	Standard connection with all switches NZM1, PN1 and N(S)1. Conversion kit for circuit-breaker with screw connection. Type contains parts for a 3 or 4-pole switch side. Fitted within the switch housing
Screw connection												
		NZM1(-4), PN1(-4), N(S)1(-4)	Three- and four-pole	Copper cable lugs Aluminium cable lugs	1 × 10 – 70 2 × 6 – 25 1 × 10 – 35 2 × 10 – 35	1 × 8 – 2/0		min. 12 × 5	**NZM1-XKS** 260019 **NZM1-4-XKS** 266725		1 off 1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Fitted outside the switch housing Mounting of the cover NZM1(-4)-XKSA obligatory (supplied).
Tunnel terminal												
	– –	NZM1(-4), PN1(-4), N(S)1(-4)	Three- and four-pole	Copper cable☺▽ Al cable ☺ ▽	1 × 16 – 95	1 × 6 – 3/0			**NZM1-XKA** 266730 **NZM1-4-XKA** 266731		1 off 1 off	Type contains parts for a terminal located at top or bottom for 3 or -pole circuit-breakers. A standard with control circuit terminal for 1 × 0.75 – 2.5 mm² (18 – 14 AWG) or 2 × 0.75 – 1.5 mm² (18 – 14 AWG) copper conductors. Fitted outside the switch housing Use with flexible and highly flexible conductors ferrules. Maximum specified cross-section can only be connected when stranded and without ferrules. Mounting of the cover NZM1(-4)-XKSA obligatory (supplied).
Connection on rear												
not UL/CSA approved												
	– –	NZM1(-4), PN1(-4), N(S)1(-4)	Three- and four-pole	Copper cable lugs	1 × 2.5 – 25 2 × 2.5 – 25 1 × 10 – 35 2 × 10 – 35			min. 12 × 5 max. 16 × 5	**NZM1-XKR** 266734 **NZM1-4-XKR** 266737		1 off 1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers.

Notes [1)] Up to 240 mm² can be connected depending on the cable manufacturer.

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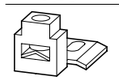
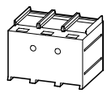
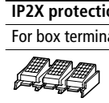
	Max. cable connection	For use with		Terminal capacities Type of conductor	Terminal capacities mm²	AWG/kcmil	Terminal capacities Cu strip (number of segments × width × segment thickness) mm	Copper busbar width × thickness mm	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
Control circuit terminal												
	–	NZM1(-4), PN1(-4), N(S)1(-4)	Three- and four-pole	Screw connection	1 × 0.75 – 2.5 2 × 0.75 – 1.5	1 × 18 – 14 2 × 18 – 16			**NZM1-XSTS** 260150		1 off	Type contains parts for two terminal locations located at top or bottom for 3 or 4-pole circuit-breakers. Included as standard with tunnel terminal Degree of protection IP1X NZM-XSTK cannot be combined with NZM1(-4)-XIPK IP2X protection against contact with a finger. Height or thickness of the control terminals: NZM-XSTK = 2 mm NZM-XSTS = 2 mm
	–			Box terminal					**NZM-XSTK** 266739		1 off	
Cover												
	–	NZM1(-4), PN1(-4), N(S)1(-4)	3 pole						**NZM1-XKSA** 260021		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Protection against direct contact where cable lugs, busbars or tunnel terminals are used Contained in kit with tunnel terminals or screw connection terminals. Degree of protection IP1X on the connection side when using insulated conductor material.
	–		4 pole						**NZM1-4-XKSA** 266741		1 off	
Connection cover, knockout												
For box terminals												
	–	NZM1, PN1, N1	3-pole						**NZM1-XKSFA** 100780		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Enhancement of the protection against direct contact (simplified protection against contact with a finger). Cannot be combined with NZM-XSTK control circuit terminal.
		NZM1(-4), PN1(-4), N1(-4)	4 pole						**NZM1-4-XKSFA** 100781		1 off	
IP2X protection against contact with a finger												
For box terminals												
	–	NZM1, PN1, N1	3 pole						**NZM1-XIPK** 266744		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Enhancement of the protection against direct contact to IP2X. Protection when reaching into the cable connection area with the connection of cables in the box terminal. Cannot be combined with NZM-XSTK control circuit terminal.
		NZM1(-4), PN1(-4), N1(-4)	4 pole						**NZM1-4-XIPK** 266745		1 off	
For cover NZM1(-4)-XKSA or NZM1...(C)NA, N(S)1...NA												
	–	NZM1, PN1, NS1	3 pole						**NZM1-XIPA** 266748		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Enhancement of the protection against direct contact to IP2X.
		NZM1(-4), PN1(-4), N1(-4)	4 pole						**NZM1-4-XIPA** 266749		1 off	

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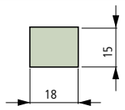
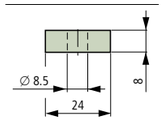
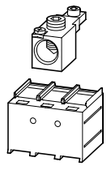
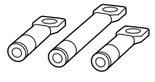
	Max. cable connection area	For use with		Terminal capacities Type of conductor	Terminal capacities mm²	AWG/kcmil	Terminal capacities Cu strip (number of segments × width × segment thickness) mm	Copper busbar width × thickness mm	Part no. Article no. when ordered with basic unit	Price see price list	Part no. Article no. when ordered separately	Price see price list	Std.	Notes
Box terminal														
		NZM2(-4), PN2(-4), N(S)2(-4)	Three- and four-pole	Copper conductors Cu cable	1 × 4 – 185 2 × 4 – 70	1 × 11 – 350	≧ 2 × 9 × 0.8		**+NZM2-160-XKCO** 262218		**NZM2-160-XKC** 262240		1 off	Type suffix and type contain parts for a circuit-breaker side at top or bottom for 3 or 4-pole circuit-breakers. Conversion kit for circuit-breaker with screw connection. Fitted within the switch housing O = for fitting at the top U = for fitting at the bottom U_e ≧ 525 V AC: • Use cover NZM2(-4)-XKSA.
									+NZM2-160-XKCU 262223					
									+NZM2-250-XKCO 262242		**NZM2-250-XKC** 262244			
									+NZM2-250-XKCU 262243					
									+NZM2-4-160-XKCO 266751		**NZM2-4-160-XKC** 266755			
									+NZM2-4-160-XKCU 266753					
									+NZM2-4-250-XKCO 266752		**NZM2-4-250-XKC** 266756			
									+NZM2-4-250-XKCU 266754					
Screw connection														
		NZM2(-4), PN2(-4), N(S)2(-4)	Three- and four-pole	Copper cable lugs Aluminium cable lugs	1 × 4 – 185 2 × 4 – 70 1 × 10 – 50 2 × 10 – 50	1 × 11 – 3/0	≧ 2 × 16 × 0.8	≧ 16 × 5			**NZM2-XKS** 260030		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Standard connection with all NZM2, PN2 and N2 circuit-breakers. Conversion kit for circuit-breaker with box terminal. Use special cable lug narrow version, → 101 Fitted within the switch housing If a busbar is used its insulation (400 mm) e.g. by heat-shrink and a shroud NZM2(-4)-XKSA are necessary. U_e ≧ 525 V AC: • On all other connection types a shroud NZM2(-4)-XKSA should be used.
											NZM2-4-XKS 266750		1 off	
Tunnel terminal														
	–	NZM2(-4), PN2(-4), N(S)2(-4)	Three- and four-pole	Copper cable⏀ Copper cable⏀	1 × 16 – 185[1)]	1 × 6 – 350 –					**NZM2-XKA** 271457		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. A standard with control circuit terminal for 1 × 0.75 – 2.5 mm² (18 – 14 AWG) or 2 × 0.75 – 1.5 mm² (18 – 16 AWG) copper conductors. Fitted outside the switch housing Use with flexible and highly flexible conductors ferrules. Maximum specified cross-section can only be connected when stranded and without ferrules. Mounting of the cover NZM2(-4)-XKSA obligatory (supplied).
	–										**NZM2-4-XKA** 271458		1 off	
Connection on rear														
not UL/CSA approved When using cable lugs **without** NZM3(-4)-XKSA cover, they must be insulated.														
	–	NZM2(-4), PN2(-4), N2(-4)	Three- and four-pole	Copper cable lugs Aluminium cable lugs	1 × 4 – 185 2 × 4 – 70 1 × 10 – 50 2 × 10 – 50		min. 2 × 16 × 0.8 max. 6 × 24 × 0.5	Min. 16 × 5 Max. 20 × 5	**+NZM2-XKRO** 266763		**NZM2-XKR** 266765		1 off	Type suffix and type contain parts for a circuit-breaker side at top or bottom for 3 or 4-pole circuit-breakers. O = for fitting at the top U = for fitting at the bottom
	–								**+NZM2-XKRU** 266764					
	–								**+NZM2-4-XKRO** 266766		**NZM2-4-XKR** 266768			
	–								**+NZM2-4-XKRU** 266767					

Notes [1)] Up to 240 mm² can be connected depending on the cable manufacturer.

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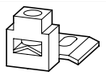
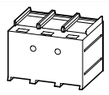
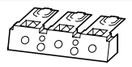
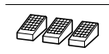
	Max. cable connection area		For use with		Terminal capacities Type of conductor	Terminal capacities mm²	AWG/kcmil	Terminal capacities Cu strip (number of segments × width × segment thickness) mm	Copper busbar width × thickness mm	**Part no.** Article no. when ordered with basic unit	**Price** see price list	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
Control circuit terminal															
	–	–	NZM2(-4), PN2(-4), N(S)2(-4)	Three- and four-pole	Screw connection	1 × 0.75 – 2.5 2 × 0.75 – 1.5	1 × 18 – 14 2 × 18 – 16					**NZM2-XSTS** 260156		1 off	Type contains parts for two terminal locations located at top or bottom for 3 or 4-pole circuit-breakers. Included as standard with tunnel terminal Degree of protection IP1X NZM-XSTK cannot be combined with NZM2(-4)-XIPK IP2X protection against contact with a finger. Height or thickness of the control circuit terminals: NZM-XSTK = 2 mm NZM-XSTS = 2 mm
	–	–	NZM2(-4), PN2(-4), N(S)2(-4)	Three- and four-pole	Box terminal	1 × 0.75 – 2.5 2 × 0.75 – 1.5	1 × 18 – 14 2 × 18 – 16					**NZM-XSTK** 266739		1 off	
Cover															
	–	–	NZM2, PN2, NS2	3 pole								**NZM2-XKSA** 260038		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Protection against direct contact where cable lugs, busbars or tunnel terminals are used Degree of protection IP1X on the connection side when using insulated conductor material.
	–	–	NZM2(-4), PN2(-4), N(S)2(-4)	4 pole								**NZM2-4-XKSA** 266770		1 off	
Connection cover, knockout															
	–	–	NZM2, PN2, N(S)2	3 pole								**NZM2-XKSFA** 104640		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Enhancement of the protection against direct contact (simplified protection against contact with a finger).
	–	–	NZM2(-4), PN2(-4), N(-4)	4 pole								**NZM2-4-XKSFA** 104641		1 off	
IP2X protection against															
For box terminals															
	–		NZM2, PN2, N(S)2	3 pole								**NZM2-XIPK** 266773		1 off	Type contains parts for a terminal located at top or bottom for3 or 4-pole circuit-breakers. Enhancement of the protection against direct contact to IP2X. Protection when reaching into the cable connection area with the connection of cables in the box terminal. With 2 conductors minimum cross-section 25 mm² or AWG4. Cannot be combined with NZM-XSTK control circuit terminal.
			NZM2(-4), PN2(-4), N2(-4)	4 pole								**NZM2-4-XIPK** 266774		1 off	
For covers NZM2(-4)-XKSA or NZM2(-4) or NZM2...(C)NA and N(S)2...NA															
	–		NZM2, PN2, N(S)2	3-pole								**NZM2-XIPA** 266777		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Enhancement of the protection against direct contact to IP2X. When mounting NZM2-..-(C)NA or NZM...-NA the following applies: With 2 conductors minimum cross-section 25 mm² or AWG4.
			NZM2(-4), PN2(-4), N2(-4)	4-pole								**NZM2-4-XIPA** 266778		1 off	
Copper cable lug															
not UL/CSA approved When using cable lugs **without** NZM3(-4)-XKSA cover, they must be insulated.															
	–	95 mm²	NZM2(-4), PN2(-4), N2(-4)	Three- and four-pole								**KS95-NZM7** 059775		3 off	Type contains a cable lug for 3-pole or 4-pole switches. Special cable lug, narrow style
	–	120 mm²										**KS120-NZM7** 059776			
	–	150 mm²										**KS150-NZM7** 059777			
	–	185 mm²										**NZM2-XKS185** 260032			

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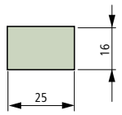
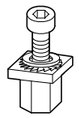
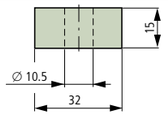
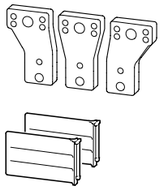
	Max. cable connection	Rated current[1] I_n A	For use with		Terminal capacities Type of conductor	Terminal capacities mm²	AWG/kcmil	Terminal capacities Cu strip (number of segments × width × segment thickness) mm	Copper busbar width × thickness mm	**Part no.** Article no. when ordered with basic unit	**Price** see price list	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
Box terminal															
		Max. 500 400 UL/CSA	NZM3(-4), PN3(-4), N(S)3(-4)	Three- and four-pole	Copper conductors Cu cable	1 × 35 – 240 2 × 16 – 120	1 × 2 – 500	min. 6 × 16 × 0.8 max. 20 × 24 × 0.5 max. 11 × 21 × 1		**+NZM3-XKCO** 262246		**NZM3-XKC** 260042		1 off	Type suffix and type contain parts for a circuit-breaker side at top or bottom for 3 or 4-pole circuit-breakers. Conversion kit for circuit-breaker with screw connection. Fitted within the switch housing O = for fitting at the top U = for fitting at the bottom $U_e \geqq$ 525 V AC: • Use NZM3(-4)-XKSA cover. Use with flexible and highly flexible conductors ferrules, note the max. terminal capacity when using ferrules.
		Max. 630						10 × 24 × 1.0 + 5 × 24 × 1.0 or (2 ×) 8 × 24 × 1.0		**+NZM3-XKCU** 262245					
										+NZM3-4-XKCO 266781		**NZM3-4-XKC** 266783			
										+NZM3-4-XKCU 266782					
Screw connection															
		Max. 630	NZM3(-4), PN3(-4), N(S)3(-4)	Three- and four-pole	Copper cable lugs	1 × 16 – 240 2 × 16 – 240	1 × 4 – 350	10 × 32 × 1.0 + 5 × 32 × 1.0	30 × 10 + 30 × 5			**NZM3-XKS** 260039		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Standard connection with all NZM3, PN3 and N3 circuit-breakers. Conversion kit for circuit-breaker with box terminal. Use special cable lugs narrow version, → 101 Fitted within the switch housing When a busbar is used insulation is required (400 mm) e.g. using heat shrink and a shroud NZM3(-4)-XKSA. $U_e \geqq$ 525 V AC: A shroud NZM3(-4)-XKSA must be used with all other connection types.
		Max. 400			Aluminium cable lugs	1 × 10 – 120 2 × 10 – 120						**NZM3-4-XKS** 266780		1 off	
Connection width extension															
		Max. 630	NZM3(-4), PN3(-4), N(S)3(-4)	Three- and four-pole	Copper cable lugs Aluminium cable lugs	2 × 300	2 × 500	(2 ×) 10 × 50 × 1.0	(2 ×) 10 × 50			**NZM3-XKV70** 100514		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Central holes, e.g. for up to 2 cable lugs per phase. Can be fitted to circuit-breaker with screw termination Phase isolator supplied. Distance between pole centres with NZM3(-4)-XKV70: 70 mm Drilled hole available for control cable. Terminals NZM3(-4)-XK300 and NZM3(-4)-XK22X21 can be mounted.
												NZM3-4-XKV70 100515		1 off	

Notes

[1] The following applies for the rated current: The values have been determined conform to IEC 60947 (switchgear standard) and generally relate to the max. defined cross-sections and are intended for the purpose of orientation.
The engineering standards which apply in each case must be observed.

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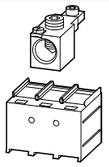
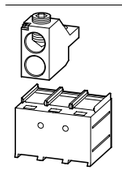
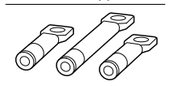
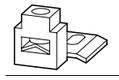
	Max. cable connection		Rated current[1] I_n A	For use with		Terminal capacities Type of conductor	Terminal capacities mm²	AWG/kcmil	Terminal capacities Cu strip (number of segments × width × segment thickness) mm	Terminal capacities Copper busbar width × mm	**Part no.** Article no. when ordered with basic unit	**Price** see price list	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
Terminals for connection width extension																
not UL/CSA approved																
			Max. 500	NZM3, PN3, N3	3-pole	Cu cable	1 × 120 – 300						**NZM3-XK300** 100782		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Only in conjunction with connection width extension NZM3(-4)-XKV70. Use with flexible and highly flexible conductors ferrules. Standard with control circuit terminal for 1 × 0.75 – 2.5 mm² or 2 × 0.75 – 1.5 mm² copper conductors.
				NZM3(-4), PN3(-4), N3(-4)	4-pole	Cu cable	1 × 120 – 300						**NZM3-4-XK300** 100783			
			Max. 630	NZM3, PN3, N3	3-pole				22 × 21 × 1.0				**NZM3-XK22X21** 100784			
				NZM3(-4), PN3(-4), N3(-4)	4-pole								**NZM3-4-XK22X21** 100785			
Tunnel terminal																
	–		Max. 350	NZM3(-4), PN3(-4), N(S)3(-4)	Three- and four-pole	Copper cable Al-Kabel	1 × 16 – 185[2]	1 × 6 – 350 –					**NZM3-XKA1** 271459		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. A standard with control circuit terminal for 1 × 0.75 – 2.5 mm² (18 – 14 AWG) or 2 × 0.75 – 1.5 mm² (18 – 16 AWG) copper conductors. Fitted outside the switch housing Use with flexible and highly flexible conductors ferrules. Maximum specified cross-section can only be connected when stranded and without ferrules. Mounting of the cover NZM3(-4)-XKSA obligatory (supplied).
	–												**NZM3-4-XKA1** 271460			
	–		Max. 630				1 × 50 – 240 2 × 50 – 240	1 × 0 – 500 2 × 0 – 500					**NZM3-XKA2** 271461			
	–												**NZM3-4-XKA2** 271462			
Connection on rear																
not UL/CSA approved																
	–		Max. 630	NZM3(-4), PN3(-4), N3(-4)	Three- and four-pole	Copper conductors Cu cable	1 × 16 – 240 2 × 16 – 240				**+NZM3-XKRO** 266790				1 off	Type suffix and type contain parts for a circuit-breaker side at top or bottom for 3 or 4-pole circuit-breakers. O = for fitting at the top U = for fitting at the bottom
	–												**NZM3-XKR** 266792			
	–										**+NZM3-XKRU** 266791					
	–		Max. 500			Al conductors Al cable	1 × 10 – 120 2 × 10 – 120		min.6 × 16 × 0.8 max. 10 × 32 × 1.0	Min. 20 × 5 Max. 30 – 10	**+NZM3-4-XKRO** 266793					
	–												**NZM3-4-XKR** 266795			
	–										**+NZM3-4-XKRU** 266794					
Control circuit terminal																
	–		–	NZM3(-4), PN3, N(S)3(-4)	Three- and four-pole	Box terminal	1 × 0.75 – 2.5 2 × 0.75 – 1.5	1 × 18 – 14 2 × 18 – 16					**NZM-XSTK** 266739		1 off	Type contains parts for two terminal locations located at top or bottom for 3 or 4-pole circuit-breakers. Included as standard with tunnel terminal Degree of protection IP1X NZM-XSTK cannot be combined with NZM1(-4)-XIPK IP2X protection against contact with a finger. Height or thickness of the control terminals: NZM-XSTK = 2 mm NZM-XSTS = 2 mm
	–		–	NZM3(-4), PN3, N(S)3(-4)		Screw connection							**NZM3/4-XSTS** 266797		1 off	

Notes

[1] The following applies for the rated current: The values have been determined conform to IEC 60947 (switchgear standard) and generally relate to the max. defined cross-sections and are intended for the purpose of orientation. The engineering standards which apply in each case must be observed.

[2] Up to 240 mm² can be connected depending on the cable manufacturer.

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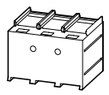
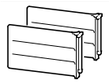
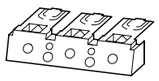
		Max. cable connection area	For use with		Terminal capacities Type of conductor	Terminal capacities mm²	AWG/kcmil	Terminal capacities Cu strip (number of segments × width × segment thickness) mm	Copper busbar width × thickness mm	**Part no.** Article no. when ordered with basic unit	**Price** see price list	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
Cover															
	–		NZM3(-4), PN3(-4), N(S)3(-4)	3 pole								**NZM3-XKSA** 260045		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Insulation/protection against direct contact where cable lugs, busbars or tunnel terminals are used. Included in set with tunnel terminals Degree of protection IP1X on the connection side when using insulated conductor material.
	–			4 pole								**NZM3-4-XKSA** 266801		1 off	
Phase isolator															
	–		NZM3(-4), PN3(-4), N(S)3(-4)	3 pole								**NZM3-XKP** 100512		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Included with the connection width extension. Cannot be combined with the NZM3(-4)-XKA tunnel terminal, NZM3-XKR connection on rear. Insulation protection where cable lugs, busbars or flat conductor.
	–			4 pole								**NZM3-4-XKP** 100513		1 off	
Connection cover, knockout															
	–		NZM3(-4), PN3(-4), N(S)3(-4)	3 pole								**NZM3-XKSFA** 104642		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Enhancement of the protection against direct contact to (simplified protection against contact with a finger).
	–			4 pole								**NZM3-4-XKSFA** 104643		1 off	
IP2X protection against contact with a finger															
For box terminals															
			NZM3(-4), PN3(-4), N3(-4)	3 pole								**NZM3-XIPK** 266804		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Enhancement of the protection against direct contact to IP2X. Protection when reaching into the cable connection area with the connection of cables in the box terminal. With 2 conductors minimum cross-section 70 mm² 00 or AW00. Cannot be combined with NZM-XSTK control circuit terminal.
				4 pole								**NZM3-4-XIPK** 266805		1 off	
For cover NZM3(-4)-XKSA or NZM3...(C)NA and N(S)3...NA															
			NZM3(-4), PN3(-4), N(S)3(-4)	3 pole								**NZM3-XIPA** 266808		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Enhancement of the protection against direct contact to IP2X. When mounting NZM3-..-(C)NA or N3...-NA the following applies: With 2 conductors minimum cross-section 70 mm² 00 or AW00.
				4 pole								**NZM3-4-XIPA** 266809		1 off	
Copper cable lug															
not UL/CSA approved When using cable lugs **without** NZM3(-4)-XKSA cover, they must be insulated.															
	240 mm²		NZM3(-4), PN3, N3(-4) NZM4(-4), N4(-4)	Three- and four-pole								**NZM3-XKS240** 260041		3 off	Type contains a cable lug for 3-pole or 4-pole switches. Special cable lug, narrow style
	185 mm²											**NZM3-XKS185** 260040		3 off	

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Circuit-breakers, switch-disconnectors up to 1600 A

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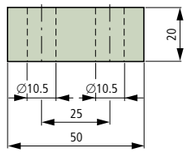
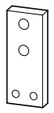
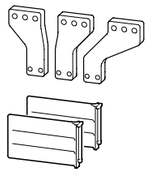
		Max. cable connection area	Rated current [1]	For use with		Terminal capacities			Terminal capacities		Part no. Article no. when ordered separately	Price see price list	Std. pack	Notes
						Type of conductor	Terminal capacities	AWG/kcmil	Cu strip (number of segments × width × segment thickness)	Copper busbar width × thickness				
			I_n A				mm²		mm	mm				
Screw connection														
Standard equipment														
	Double hole		Max. 1250 Max.	NZM4(-4) N4(-4) N(S)4	Three- and four-pole	Cu cable lugs	1 × 120 – 185 4 × 50 – 185	1 × 250 – 350 4 × 0 – 350	2 × (10 × 40 × 1.0)	(2 ×) 50 × 10			off	Double hole fitting for M10 screws with 25 mm clearance. Use special cable lug narrow version. $U_e \geqq$ 525 V or cross-section > 185 mm²: Use of shroud NZM4(-4)-XKSA required.
Module plate														
	Single hole		Max. 1250	NZM4, N(S)4	3 pole	Copper cable lugs	1 × 120 – 300 2 × 95 – 300	1 × 250 – 600 2 × 000 – 600	2 × (10 × 40 × 1.0) 2 × (10 × 50 × 1.0)	(2 ×) 40 × 10 (2 ×) 50 × 10	**NZM4-XKM1** 266814		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. For M10 screws. Can be enlarged for M12 screws. Use special cable lug narrow version. Can be fitted to circuit-breaker with screw termination Insulation through NZM4(-4)-XKSA cover or NZM4(-4)-XKP phase separator necessary
				NZM4-4, N4-4	4 pole						**NZM4-4-XKM1** 266815			
	Double hole		Max. 1400	NZM4, N(S)4	3 pole	Copper cable lugs	2 × 95 – 185 4 × 35 – 185 4 × 50	2 × 000 – 350 4 × 2 – 350 4 × 0			**NZM4-XKM2** 266820			
				NZM4-4, N4-4	4 pole						**NZM4-4-XKM2** 266821			
	Double hole		Max. 1250	NZM4, N(S)4	3 pole	Copper cable lugs	2 × 95 – 300	2 × 000 – 600			**NZM4-XKM2S-1250** 284471			Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Insulation through cover NZM4(-4)-XKSA or phase isolator NZM4(4)-XKP necessary.
				NZM4-4, N4-4	4 pole						**NZM4-4-XKM2S-1250** 284472			
			Max. 1600	NZM4, N(S)4	3 pole	Copper cable lugs Copper cable lugs					**NZM4-XKM2S-1600** 284473			
				NZM4-4, N4-4	4 pole						**NZM4-4-XKM2S-1600** 284474			
Connection width extension														
			Max. 1600	NZM4, N(S)4	3 pole	Cu cable lugs	4 × 300 6 × 95 – 240	4 × 600 6 × 000 – 500			**NZM4-XKV95** 281591		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Five way holes, e.g. for up to 9 cable lugs per phase. Can be fitted to circuit-breaker with screw termination Phase isolator supplied. Distance between pole centres with NZM4(-4)-XKV95: 95 mm Installation conditions for current transformer up to 130 mm width with 80 mm busbar width. Distance between pole centres with NZM4-XKV110: 107.5 mm Installation conditions for current transformer up to 135 mm width with 80 mm busbar width. Distance between pole centres with NZM4-4-XKV120: 122 mm Installation conditions for current transformer up to 164 mm width with 80 mm busbar width. 4 mm drilled holes for control circuit terminal available.
				NZM4-4, N4-4	4 pole						**NZM4-XKV110** 281593			
											NZM4-4-XKV95 281592			
											NZM4-4-XKV120 281594			

Notes

[1] The following applies for the rated current: The values have been determined conform to IEC/EN 60947 (switchgear standard) and generally relate to the max. defined cross-sections and are intended for the purpose of orientation.
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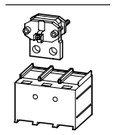
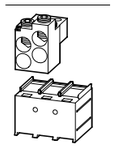
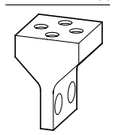
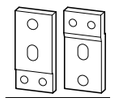
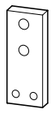
		Max. cable connection area	Rated current [1] I_n A	For use with		Terminal capacities Type of conductor	Terminal capacities mm²	AWG/kcmil	Terminal capacities Cu strip (number of segments × width × segment thickness) mm	Terminal capacities Copper busbar width × thickness mm	Part no. Article no. when ordered separately	Price see price list	Std. pack	Notes
Flat cable terminal														
	–		Max. 1100	NZM4, N(S)4	3 pole				Min. 6 × 16 × 0.8 Max. 20 × 32 × 0.5		**NZM4-XKB** 266829		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Conversion kit for circuit-breaker with screw connection. Insulation through cover NZM4(-4)-XKSA or phase isolator NZM4(4)-XKP necessary. With switch mpunting on conductive mounting plates use of the shroud NZM4(-4)-XKSA necessary (supplied item).
	–			NZM4-4, N(S)4-4	4 pole				Min. 6 × 16 × 0.8 Max. 20 × 32 × 0.5		**NZM4-4-XKB** 266831		1 off	
Tunnel terminal														
	–		Max. 1400	NZM4, N(S)4	3 pole	Copper cable ☺ ⚲ Al cable ☺ ⚲	1 × 50 – 240 4 × 50 – 240 1 × 50 – 240 4 × 50 – 240	1 × 0 – 500 4 × 0 – 500			**NZM4-XKA** 266836		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. A standard with control circuit terminal for 1 × 0.75 – 2.5 mm² (18 – 14 AWG) or 2 × 0.75 – 1.5 mm² (18 – 16 AWG) copper conductors. Can be fitted to circuit-breaker with screw termination Use with flexible and highly flexible conductors ferrules. Mounting of the cover NZM4 (-4)-XKSA obligatory (supplied).
	–			NZM4-4, N(S)4-4	4 pole						**NZM4-4-XKA** 266837		1 off	
Connection on rear														
not UL/CSA approved														
	–		Max. 1250	NZM4-4, N4-4	Three- and four-pole	Copper cable lugs Aluminium cable lugs	1 × 120 – 185 2 × 95 – 185 4 × 35 – 185 1 × 185 2 × 70 – 185 4 × 50 – 185				**NZM4-XKR** 266842		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Can also be retrofitted: NZM4...-XKM... module plate or NZM4-...-XKV... connection width extension
	–		Max. 1600						(2 ×) 10 × 50 × 1.0	(2 ×) 50 × 10	**NZM4-4-XKR** 266843		1 off	
NZM4/NZM14 adapter kit														
not UL/CSA approved														
	–		Max. 1250	NZM4, N4	3 pole						**NZM4-XAS14-1250** 283291		1 off	Conversion kit from NZM14 to NZM4. Same connection schematic as NZM14. Type contains parts for both switch sides. 3 connection extensions on outlet side. 3 connection extensions on trip block side. 1 long shroud for the outlet side Paper drilling template in the installation instructions (AWA) Cannot be combined with the module plate (NZM4-XKM...), flat cable terminal (NZM4-XKB), connection width extension (NZM4-XKV...), tunnel terminal (NZM4-XKA), connection on rear (NZM4-XKR) and withdrawable unit (NZM4-XAV...).
	–		Max. 1600	NZM4, N4	3 pole						**NZM4-XAS14-1600** 283292		1 off	

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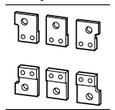
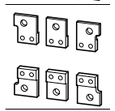
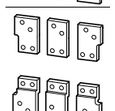
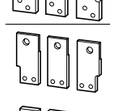
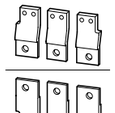
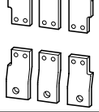
	Max. cable connection area	Rated current [1]	For use with		Terminal capacities			Terminal capacities		Part no. Article no. when ordered separately	Price see price list	Std. pack	Notes
					Type of conductor	Terminal capacities	AWG/kcmil	Cu strip (number of segments × width × segment thickness)	Copper busbar width × thickness				
		I_n A				mm²		mm	mm				
Adapter set N(ZM)4/N(ZM)12													
	–	Max. 1000	N4	3 pole						**N4-XAS12-1000** 285609		1 off	Kit for conversion of N(ZM)12 to N(ZM)4. Using the connection lugs of the exchange kit all 3-pole NZM12 or N12 can be adapted to the connection dimensions of the NZM4 or N4, which have been manufactured since 1983. Non-exchangable are 4-pole base units as well as devices with withdrawable units and remote operators. Scope of the exchange kits N(ZM)4-XAS12...: 3 connection extensions on outlet side 3 connection extensions on trip block side 2 mounting brackets 4 fixing screws 4 phase isolators 6 fixing screws, nuts and washers Paper drilling template in the assembly instructions (AWA) The exchange kits have identical dimensions to the types N(ZM)12..., which correspond to the types manufactured from 02/97 onwards. Special feature: The N(ZM)12-800 manufactured before 02/97 features 10 mm connection lugs instead of the 8 mm connections lugs currently used. With these types the customer must determine the year of manufacture of the device by measuring the thickness of the connection lugs and order the exchange kit N(ZM)4-XAS12-1250. Example: N(ZM)12-800...(1000) > N(ZM)4-XAS12-1000 N(ZM)12-800 before 02/97 > N(ZM)4-XAS12-1250 N(ZM)12-1250 > N(ZM)4-XAS12-1250 N(ZM)12-1600 > N(ZM)4-XAS12-1600 Expansion for devices manufactured before 1983! The exchange kit for switch-disconnector can be used completely here. The adapters will only fit on top on the circuit-breaker with the longer “ZM” version! The devices are about 65 mm longer at the bottom and the lower connection is about 26 mm lower. Accordingly, the adapters are too short for the bottom and the height does not correspond either.
	–	Max. 1250	N4	3 pole						**N4-XAS12-1250** 285610		1 off	
	–	Max. 1600	N4	3 pole						**N4-XAS12-1600** 285611		1 off	
	–	Max. 1000	NZM4	3 pole						**NZM4-XAS12-1000** 285612		1 off	
	–	Max. 1250	NZM4	3 pole						**NZM4-XAS12-1250** 285613		1 off	
	–	Max. 1600	NZM4	3 pole						**NZM4-XAS12-1600** 285614		1 off	

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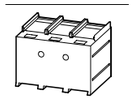
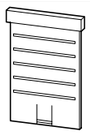
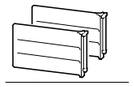
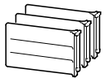
	Max. cable	For use with		Terminal capacities Type of conductor	Terminal capacities mm²	AWG/kcmil	Terminal capacities Cu strip (number of segments × width × segment thickness) mm	Copper busbar width × thickness mm	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
Control circuit terminal												
 –		NZM3(-4), PN3, N(S)3(-4) NZM4(-4), N(S)4(-4)	Three- and four-pole	Screw connection	1 × 0.75 – 2.5 2 × 0.75 – 1.5	1 × 18 – 14 2 × 18 – 16			**NZM3/4-XSTS** 266797		1 off	Type contains parts for two terminal locations located at top or bottom for 3 or 4-pole circuit-breakers. Included as standard with tunnel terminal Degree of protection IP1X NZM-XSTK cannot be combined with NZM3(-4)-XIPK or NZM4(-4)-XIPK IP2X protection against contact with a finger. Height or thickness of the control circuit terminals: NZM-XSTK = 2 mm NZM-XSTS = 2 mm
Cover												
 –		NZM4, N(S)4	3 pole						**NZM4-XKSA** 266846		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Protection against direct contact where cable lugs, busbars, flat conductor terminals or tunnel terminals are used. Contained in kit with module plates, flat conductor terminals and tunnel terminals. Degree of protection IP4X at front, side and rear, on the connection side when using insulated conductor material to IP1X.
–		NZM4-4, N4-4	4 pole						**NZM4-4-XKSA** 266847		1 off	
Terminal cover												
 –		NZM4, N4	3 pole						**NZM4-XKSFA** 292193		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Enhancement of the protection against direct contact to (simplified protection against contact with a finger).
–		NZM4-4, N4-4	4 pole						**NZM4-4-XKSFA** 292194		1 off	
Phase isolators												
 –		NZM4 N(S)4	3 pole						**NZM4-XKP** 281595		1 off	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit-breakers. Included with the connection width extension. Cannot be combined with the tunnel terminal NZM4(-4)-XKA, connection NZM4-XKR on rear. Insulation protection where cable lugs, busbars, module plates or flat cable terminals are used.
 –		NZM4-4 N4-4	4 pole						**NZM4-4-XKP** 281596		1 off	
Cable lug												
not UL/CSA approved												
 185 mm²		NZM3(-4), PN3, N3(-4) NZM4(-4), N4(-4)	3 and 4 pole						**NZM3-XKS185** 260040		3 off	Type contains a cable lug for 3-pole or 4-pole switches. Special cable lug, narrow style
240 mm²									**NZM3-XKS240** 260041		3 off	

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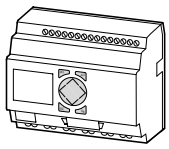
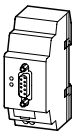
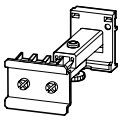
	Description	Part no. Article no.	Price see price list	Std. pack	Notes
Diagnostic and configurator software for NZM and DMI (at the machine)					
	PC software for direct connection to all new NZM circuit-breakers with electronic releases (IEC and UL/CSA devices) or for direct connection to the DMI module, including the connection cable. Protection parameters: Online display and characteristic representation, export option to "Moeller CurveSelect" characteristics program. Warning and trip messages: Read of the diagnostics memory even in a no-voltage state. Load currents: Display and trend representation. Recording and export feature to MS-Excel for load currents and diagnostic messages. Configuration of the DMI: motor starter, remote operator, assignment of the DMI inputs and outputs and displays.	**NZM-XPC-KIT** 265631		1 off	Only suitable for use in conjunction with circuit-breakers having electronic releases. Free-of-charge download of the manual AWB1230-1459 and a demo software at www.moeller.net.
Data Management Interface (DMI Module)					
	Query of diagnostics and operational data, display of currents, motor starter function, parameterization and control of the circuit-breaker with electronic release. Comprehensive remote diagnostic options and remote operation via fieldbus in combination with fieldbus connection. Inclusive NZM-XDMI-CAB connection cable between NZM and DMI (length: 2 m).	**NZM-XDMI612** 260217		1 off	Only suitable for use in conjunction with circuit-breakers having **electronic** releases. Free download of manual AWB1230-1441 at www.moeller.net.
Expansion unit, networking Connection to the DMI module for transfer of the phase currents, parameter-, status- and diagnostics data as well as the position of the circuit-breaker (wiring of the auxiliary contact to the DMI inputs). DMI configuration via field bus. Actuation of the DMI motor starter function and the NZM remote operator (via DMI output wiring). Detection of digital inputs and actuation of the outputs via the fieldbus.					
	Fieldbus interface: to PROFIBUS-DPV1 slave. Can be operated with class 1 and class 2 masters. Addresses available: 1 to 126	**NZM-XDMI-DPV1** 270333		1 off	Connected to the DMI module and has the same contour appearance. Replaces the DPV0 interface EASY204-DP.
	Fieldbus connection to CANopen Addresses available: 1 to 127	**EASY221-CO** 233539		1 off	
	Fieldbus connection to DeviceNet Addresses available: 0 to 63	**EASY222-DN** 233540		1 off	
Switched-mode power supply unit for DMI module					
	• Rated input voltage: 50/60 HZ: 115/230 V AC • Rated output voltage (residual ripple): 24 V DC (± 3 %) • Rated output current: 1.25 A	**EASY400-POW** 212319		1 off	–
Telescopic adapter for DMI module For equalization of the mounting depth when rear mounted in CI-K.. enclosures and cabinets.					
	With 35 mm top-hat rail IEC/EN 60715, adjustable from 75 – 115 mm. Screw-on and snap fitting.	**M22-TA** 226161		1 off	–

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Description	Part no. Article no.	Price see price list	Std. pack	Notes
FDT frame software for operating field devices				
PC software for integration of software modules (DTM's) according to the FDT standard V1.2 (e.g. NZM-XPC-DTM). • Operation of a temporary or stationary service station for engineering, remote diagnostics, remote operation and remote parameter definition of networked switchgear and field devices. • Engineering of the network topology of networked field devices. • Overview representation of the topology with online status information. • Access to the device specific DTM's for configuration, operation, parameterization and diagnostics of the devices. • Storage of all engineering information in a central database. Download and upload from/to the devices.	**FDT-NAVIGATOR** 281623		1 off	The connection of the field devices can be implemented via the PROFIBUS-DPV1 master or via gateways (e.g.: USB/PROFIBUS, Ethernet/ PROFIBUS). Communication interfacing for the PC and a communication DTM (driver) is necessary for this purpose. Please inquire.
DTM software module to FTD standard				
PC software module (Device Type Manager) to FDT/DTM standard V1.2 for integration in the FDT navigator or other FDT capable framework software packages (primary control system, PLC engineering systems). • Remote diagnostics, remote monitoring, remote parameter definition and remote operation of the new NZM2,3,4 circuit-breakers with electronic trip release via Profibus-DPV1. • Display of the circuit-breaker state (on/off/tripped), the phase currents, parameter data, status data and diagnostics data. • Definition of the trip parameters. • Display and setting of the DMI motor starter functions and assignment of the DMI inputs and outputs. • Control of the motor starter functions.	**NZM-XPC-DTM** 281624		1 off	For connection of the circuit-breaker to the PROFIBUS-DP fieldbus, the accessory device NZM-XDMI-612 and the fieldbus interface NZM-XDMI-DPV1 are required.

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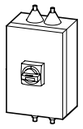
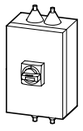
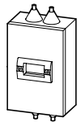
Circuit-breakers, switch-disconnectors up to 1600 A

Moeller SK1230-1157GB-INT

		Max. rated uninterrupted current I_u A	For use with	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack	Insulated enclosure description	Retrofit terminals with 3-pole switches: for 4th and 5th (if required) conductor (N, PE-conductor), with 4-pole switches: for 5th conductor (PE conductor)	**Notes**
Insulated enclosures									
With door coupling rotary handle Complete including all necessary functional parts Degree of protection IP65 Not UL/CSA approved.									
Standard, black/grey									
		≦ 63 A	PN1, N1	**NZM1-XCIK5-TD** 271516		1 off	CI-K5-160-M	K10/1, K25/1	Suitable for installation of circuit-breakers and switch-disconnectors Enclosure for separate mounting with top and bottom cable entry. Include fixing straps for wall mounting. Cannot be used in combination with NZM...-XR... remote operator..., NZM...-XSV plug-in unit or NZM...-XAV withdrawable unit. Insulated additional terminal for 4th or 5th pole should be ordered separately. CI-K5 enclosure with hard metric knock-outs CI23 enclosure with flanges CI43, CI45 and CI48 feature gland plates. **Only for switches with box terminal for direct connection of cables.**
		≦ 63 A	NZM1, PN1, N1	**NZM1-XCI23-TD** 271517			CI23-150	K10/1, K25/1	
		≦ 125 A	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XCI43-TD** 271518			CI43-150	K10/1, K25/1, K50/1, K95/1N/BR	
		≦ 160 A	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XCI43/2-TD** 104644			CI43-200	K10/1, K25/1, K50/1, K95/1N/BR	
		≦ 200 A	NZM2(-4), PN2(-4), N2(-4)	**NZM2-XCI43-TD** 271519			CI43-200	K10/1, K25/1, K50/1, K95/1N/BR, K150/1/BR, K240/1/BR	
		≦ 250 A	NZM2(-4), PN2(-4), N2(-4)	**NZM2-XCI45-TD** 279354			CI45-200	K10/1, K25/1, K50/1, K95/1N/BR, K150/1/BR, K240/1/BR	
		≦ 400 A	NZM3(-4), PN3(-4), N3(-4)	**NZM3-XCI48-TD** 271520			CI48-250	K95/1N/BR, K150/1/BR, K240/1/BR, K2X240/1/BR	
	Lockable in 0 position on handle. Additionally with cover interlock.	≦ 63 A	PN1, N1	**NZM1-XCIK5-TVD** 271521			CI-K5-160-M	K10/1, K25/1	
		≦ 63 A	NZM1, PN1, N1	**NZM1-XCI23-TVD** 271522			CI23-150	K10/1, K25/1	
		≦ 125 A	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XCI43-TVD** 271523			CI43-150	K10/1, K25/1, K50/1, K95/1N/BR	
		≦ 160 A	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XCI43/2-TVD** 104645			CI43-200	K10/1, K25/1, K50/1, K95/1N/BR	
		≦ 200 A	NZM2(-4), PN2(-4), N2(-4)	**NZM2-XCI43-TVD** 271524			CI43-200	K10/1, K25/1, K50/1, K95/1N/BR, K150/1/BR, K240/1/BR	
		≦ 250 A	NZM2(-4), PN2(-4), N2(-4)	**NZM2-XCI45-TVD** 280418			CI45-200	K10/1, K25/1, K50/1, K95/1N/BR, K150/1/BR, K240/1/BR	
		≦ 400 A	NZM3(-4), PN3(-4), N3(-4)	**NZM3-XCI48-TVD** 271525			CI48-250	K95/1N/BR, K150/1/BR, K240/1/BR, K2X240/1/BR	
Red-yellow for Emergency-Stop									
	Lockable on handle and switch. Lockable in 0 position on handle. Cover interlock as additional feature, locking facility on circuit-breaker in 0 position.	≦ 63 A	PN1, N1	**NZM1-XCIK5-TVDVR** 271526		1 off	CI-K5-160-M	K10/1, K25/1	
		≦ 63 A	NZM1, PN1, N1	**NZM1-XCI23-TVDVR** 271527			CI23-150	K10/1, K25/1	
		≦ 125 A	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XCI43-TVDVR** 271528			CI43-150	K10/1, K25/1, K50/1, K95/1N/BR	
		≦ 160 A	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XCI43/2-TVDVR** 104646			CI43-200	K10/1, K25/1, K50/1, K95/1N/BR	
		≦ 200 A	NZM2(-4), PN2(-4), N2(-4)	**NZM2-XCI43-TVDVR** 271529			CI43-200	K10/1, K25/1, K50/1, K95/1N/BR, K150/1/BR, K240/1/BR	
		≦ 250 A	NZM2(-4), PN2(-4), N2(-4)	**NZM2-XCI45-TVDVR** 279356			CI45-200	K10/1, K25/1, K50/1, K95/1N/BR, K150/1/BR, K240/1/BR	
		≦ 400 A	NZM3(-4), PN3(-4), N3(-4)	**NZM3-XCI48-TVDVR** 271530			CI48-250	K95/1N/BR, K150/1/BR, K240/1/BR, K2X240/1/BR	
With insulating surround for circuit-breaker with toggle lever Complete including all necessary functional parts Degree of protection IP40									
		≦ 63 A	PN1, N1	**NZM1-XCIK5-BR** 271531		1 off	CI-K5-160-M	K10/1, K25/1	
		≦ 63 A	NZM1, PN1, N1	**NZM1-XCI23-BR** 271532			CI23-125	K10/1, K25/1	
		≦ 125 A	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XCI43-BR** 271533			CI43-125	K10/1, K25/1, K50/1, K95/1N/BR	
		≦ 160 A	NZM1(-4), PN1(-4), N1(-4)	**NZM1-XCI43/2-BR** 104647			CI43-150	K10/1, K25/1, K50/1, K95/1N/BR	
		≦ 200 A	NZM2(-4), PN2(-4), N2(-4)	**NZM2-XCI43-BR** 271534			CI43-125	K10/1, K25/1, K50/1, K95/1N/BR, K150/1/BR, K240/1/BR	

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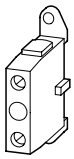
	Rated uninterrupted current I_u A	Terminal capacities mm²	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack
Additional insulated terminals					
For looping through the neutral and protective conductor 1 pole					
	32	Flexible, 1 × (1.5 – 6)	**K10/1** 093827		10 off
	63	Flexible, 1 × (6 – 16), stranded, 1 × (16 – 25)	**K25/1** 096200		
	100	Flexible, 1 × (10 – 35), stranded, 1 × (16 – 50)	**K50/1** 098573		
	160	Stranded, 1 × (16 – 95)	**K95/1N/BR** 012336		1 off
	250	Stranded, 1 × (35 – 150), 2 × (16 – 70)	**K150/1/BR** 014709		
	400	Stranded, 1 × (50 – 240), 2 × (25 – 120)	**K240/1/BR** 017082		
	630	Stranded, 1 × (240 – 300), 2 × (50 – 240)	**K2X240/1/BR** 019455		

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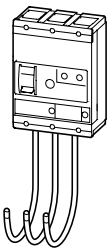
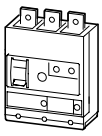
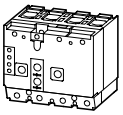
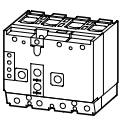
		For use with		Part no. Order number for separate orders	Price see price list	Std. pack	Notes
Earth-fault release							
not UL/CSA approved Suitability for use in three- and single-phase systems							
Pulse current sensitive acc. to core-balance principle							
For 3 and 4 pole circuit-breakers NZM1(-4) and switch-disconnectors N1(-4), dependant on mains power U_e = 200 – 415 V 50/60 Hz, lateral mounting on the right hand side up to 125 A							
	Rated fault current $I_{\Delta n}$ = 0.03 A	NZM1 N1	3 pole	**NZM1-XFI30R**[1] 104603		1 off	XFI30R suitable for personnel protection to IEC/EN 60947-2 Annex B and EN 61009-1 (VDE 0664-20). With $I_{\triangle n}$ = 0.03 A: delay time t_v always fixed setting at 10 ms. Alarm message > 30% $I_{\triangle n}$ via yellow LED. Trip indication max. 2 auxiliary contacts can be fitted by user: N/O = M22-K01, N/C = M22-K10 are reset via the reset toggle lever. Not in combination with insulated enclosure. NZM1-XFI...U not in combination with shunt or undervoltage release.
		NZM1-4 N1-4	4 pole	**NZM1-4-XFI30R** 104606			
	Rated fault current $I_{\Delta n}$ = 0.3 A	NZM1 N1	3 pole	**NZM1-XFI300R**[1] 104604			
		NZM1-4 N1-4	4 pole	**NZM1-4-XFI300R** 104607			
	Rated fault current $I_{\Delta n}$ = 0.03 – 0.1 – 0.3 – 0.5 – 1 – 3 A, delay time t_v = 10 – 60 – 150 – 300 – 450 ms.	NZM1 N1	3 pole	**NZM1-XFIR**[1] 104605			
		NZM1-4 N1-4	4 pole	**NZM1-4-XFIR** 104608			
Bottom mounting up to 100 A							
	Rated fault current $I_{\Delta n}$ = 0.03 A	NZM1 N1	3 pole	**NZM1-XFI30U** 104609			
		NZM1-4 N1-4	4 pole	**NZM1-4-XFI30U**[1] 104612			
	Rated fault current $I_{\Delta n}$ = 0.3 A	NZM1 N1	3 pole	**NZM1-XFI300U**[1] 104610			
		NZM1-4 N1-4	4 pole	**NZM1-4-XFI300U**[1] 104613			
	Rated fault current $I_{\Delta n}$ = 0.03 – 0.1 – 0.3 – 0.5 – 1 – 3 A, delay time t_v = 10 – 60 – 150 – 300 – 450 ms.	NZM1 N1	3 pole	**NZM1-XFIU** 104611			
		NZM1-4 N1-4	4 pole	**NZM1-4-XFIU** 104614			
Pulse current sensitive acc. to core-balance principle							
For 4 pole circuit-breakers NZM2-4 and switch-disconnectors N2-4, independent of mains voltage U_e = 280 – 690 V 50/60 Hz, bottom mounting up to 250 A							
	Rated fault current $I_{\Delta n}$ = 0.03 A	NZM2-4 N2-4	4 pole	**NZM2-4-XFI30** 292343		1 off	XFI30 suitable for personnel protection to IEC/EN 60947-2 Annex B and EN 61009-1 (VDE 0664-20). Auxiliary contacts (1 N/O, 1 N/C integrated) are reset via the reset button. Not in combination with plug-in
	Rated fault current $I_{\Delta n}$ 0.1 - 0.3 - 1 - 3 A, delay time t_v = 60 - 150 - 300 - 450 ms	NZM2-4 N2-4	4 pole	**NZM2-4-XFI** 292344		1 off	
Core-balance principle with AC/DC current sensitivity (in range 0 – 100 kHz)							
For 4 pole circuit-breakers NZM2-4 and switch-disconnectors N2-4, internal power supply U_e = 50 – 400 V, bottom mounting up to 250 A							
	Rated fault current $I_{\Delta n}$ = 0.03 A	NZM2-4 N2-4	4 pole	**NZM2-4-XFIA30** 292345		1 off	XFIA30 suitable for personnel protection to IEC/EN 60947-2 Annex B and EN 61009-1 (VDE 0664-20). Observe response threshold dependence on frequency! See "Frequency response" characteristic curve Auxiliary contacts (1 N/O, 1 N/C integrated) are reset via the reset button.
	Rated fault current $I_{\Delta n}$ 0.1 - 0.3 - 1 A, delay time t_v = 60 - 150 - 300 - 450 ms	NZM2-4 N2-4	4 pole	**NZM2-4-XFIA** 292346		1 off	

Notes [1] on request

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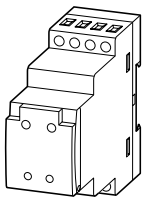
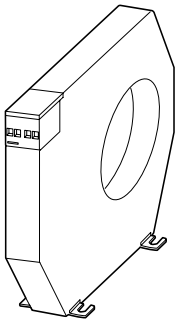
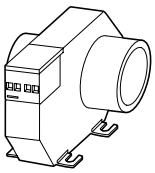
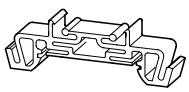
	For use with	Part no. Article no. when ordered with basic unit	Price see price list	Std. pack	Notes
Earth-fault release, 3-pole, 4-pole					
Not dependent on mains and control voltages I_g = 0.35 – 0.4 – 0.5 – 0.6 – 0.7 – 0.8 – 0.9 – 1.0 × I_n t_g = 0 – 20 – 60 – 100 – 200 – 300 – 500 – 750 – 1000 ms					
	NZM3	**+NZM3-XT** 260756		1 off	Only suitable for use in conjunction with circuit-breakers having electronic releases. Cannot be used in conjunction with NZM...-ME... remote operator. Display of the earth-fault in optional DMI communication module.
	NZM3-4	**+NZM3-4-XT** 260757			
	NZM4	**+NZM4-XT** 266721			
	NZM4-4	**+NZM4-4-XT** 266722			

	Description	Part no. Article no.	Price see price list	Std. pack	Notes
Residual current relay					
Pulse current sensitive Rated control voltage: U_s = 230 V AC (50/60Hz) Integrated auxiliary contact (1 C/O)					
	Rated fault current $I_{\triangle N}$ = 0.03 A	**PFR-003** 285555		1 off	–
	Rated fault current $I_{\triangle N}$ = 0.3 A	**PFR-03** 285556			–
	Rated fault current $I_{\triangle N}$ = 0.03 – 5 A Adjustable fault current and delay time Fault current early warning by flashing, red LED	**PFR-5** 285557			Adjustable fault current: 0.03, 0.1, 0.3, 0.5, 1, 3, 5 A Adjustable delay time: 0.02, 0.1, 0.3, 0.5, 1, 3, 5 A
Ring-type transformer					
Rated operational voltage: 690 V (50/60 Hz)					
	Internal diameter: 20 mm	**PFR-W-20** 285558		1 off	incl. fixing clip for DIN rail mounting
	Internal diameter: 30 mm	**PFR-W-30** 285559			
	Internal diameter: 35 mm	**PFR-W-35** 285600			incl. screw fixing Alternative: fixing clip for DIN mounting rail **Design note:** The current transformer diameter must be selected 1.5 times larger than the envelope diameter of the passed through conductor.
	Internal diameter: 70 mm	**PFR-W-70** 285601			
	Internal diameter: 105 mm	**PFR-W-105** 285602			
	Internal diameter: 140 mm	**PFR-W-140** 285603			
	Internal diameter: 210 mm	**PFR-W-210** 285604			
Magnetic shielding					
	PFR-W-35	**PFR-WMA-35** 286001		1 off	Necessary for a load circuit with high inrush currents > 4 × I_N, such as for example motors and capacitors
	PFR-W-70	**PFR-WMA-70** 286002			
	PFR-W-105	**PFR-WMA-105** 286003			
	PFR-W-140	**PFR-WMA-140** 286004			
	PFR-W-210	**PFR-WMA-210** 286005			
Fixing clip					
	for the DIN rail mounting of the PFR-W-35 current transformer and all larger	**PFR-WC** 286006		1 off	1 set = 2 pieces

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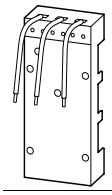
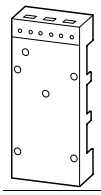
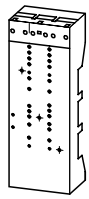
	Rated current	Supply cable/terminal	Adapter width	For surface mounting of (example)	Terminal compartment W × H	Tightening torque Fixing screw	Terminal screw	**Part no.** Article no.	**Price** see price list	Std. pack
	I_e									
	A		mm		mm	Nm	Nm			
Multi-function device adapter for busbar system 60 mm										
Component adapter for NZM1, (P)N1 circuit-breakers and switch-disconnectors For mounting on flat copper busbars 20/30 x 5 mm or 20/30 x 10 mm and 800 or 1600 A rigid copper busbars. Mounted by latching onto de-energized busbar Rated operational voltage U_e: 690 V AC Not UL/CSA approved										
	125	Connection cable 35 mm² included	90	NZM1 PN1, N1	–	4 – 6	–	**AD100/5** 272059		1 off
	125		90	NZM1 PN1, N1	–	4 – 6	–	**AD100/10** 272150		1 off
Component adapter for NZM2, (P)N2 circuit-breakers and switch-disconnectors For mounting on 30 × 10, 20 × 10, 20 × 5 mm flat copper busbars and 800/1600 A rigid copper busbars. Mounting using clamp and screw fixing. Rated operational voltage U_e: 690 V AC Connection cable not included as standard. not UL/CSA approved										
	200	Round conductor: 6 – 70 mm²; Cu-band (n × B × H): 9 × 9 × 0.8	110	NZM2 PN2, N2	13 × 10	4 – 6	2 – 3	**SV34381** 272058		1 off
	250	Round conductor: 50 – 120 mm²; Cu-band (n × B × H): 6 × 16 × 0.8	110	NZM2 PN2, N2	16 × 12	4 – 6	8 – 10	**SV34372** 272335		1 off

Notes When using adapter SV... to assemble an NZM with rotary handle a minimum distance of 18 mm must be maintained.
The busbars in the area between the adapters can be covered by the SV30921/SV35061

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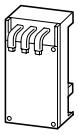
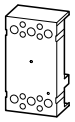
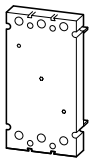
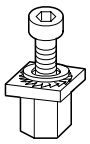
	For use with	Rated current I_e A	Part no. suffix Article no. when ordered with basic unit	Price see price list	Part no. Article no. when ordered separately	Price see price list	Std. pack	Notes
Component adapter for circuit-breakers and switch-disconnectors for busbar system 60 mm For mounting on flat copper busbars 12 – 30 × 5 – 10, Double T and triple T profile Mounting using clamp and screw fixing. Rated operational voltage U_e: 690 V • Silicone-free • Heat resistance 120 °C • Self-extinguishing to UL 94 • UL 508 conform								
	NZM1, PN1, N1, NS1	160[1]			**NZM1-XAD160**[2] 104554		1 off	For breakers with box terminal as standard connection Connection to system at top using the supplied connection cable In conjunction with IP2X protection against contact with a finger Enhancement of the protection against direct contact on the switch outgoer side possible
	NZM2, PN2, N2, NS2	250			**NZM2-XAD250**[2] 104555			Connection to system optionally at top or bottom via connection on rear (+)NZM2-XKR4...
	NZM3, PN3, N3	550			**NZM3-XAD550**[2] 104556			Connection to system at top by connection on rear (+)NZM3-XKR13...
Connection on rear for component adapters For component adapters NZM2-XAD250 and NZM2-XAD550								
	NZM2, PN2, N2, NS2	250	**+NZM2-XKR4O** 281664		**NZM2-XKR4** 281666		1 off	Type and part no. suffix contain parts for a switch at the top and bottom (on the NZM3 at the top only). Necessary with component adapters and switches with connection on rear, see the component adapter NZM1-XAD-160, NZM1-XAD-250 and NZM1-XAD-550 for an example. O = for fitting at the top U = for fitting at the bottom
	NZM2, PN2, N2, NS2	250	**+NZM2-XKR4U** 281665					
	NZM3, PN3, N3	550	**+NZM3-XKR13O** 281667		**NZM3-XKR13** 281668			

Notes
[1] Not yet UL508 listed at date of publish.
[2] on request

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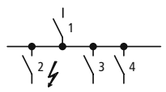

Incoming circuit-breaker

Outgoing circuit-breaker

Selectivity 415 V AC

between circuit-breakers enables separate shut-down of faulty system sections.
Incoming circuit-breaker 1 and outgoing circuit-breaker 2 operate selectively
if in the event of a short-circuit at position 2 **only** the outgoing circuit-breaker 2 trips out.
System sections 3 and 4 continue to operate.

			Incoming circuit-breaker (S1)																
			NZM...1-A...							**NZM...2-A...**									
	I_{cu} [kA]		25(50)(100)							25(50)(100)(150)									
	I_n [A]		20 ...	50	63	80	100	125	160	20 ...	50	63	80	100	125	160	200	250	
Outgoing circuit-breaker (S2)	I_n [A]	I_{cu} [kA]	Selectivity limit I_s [kA] for selectivity between S2 and S1, overload- and short-circuit release set to max. value																
FAZ–B(C)	0.5	15	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	1	15	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	2	15	2	T	T	T	T	T	T	3	T	T	T	T	T	T	T	T	
	3	15	1.2	2	3	3	10	T	T	1.5	1.5	3	5	T	T	T	T	T	
	4	15	1.2	2	3	3	8	T	T	1.2	1.5	3	4	T	T	T	T	T	
	6	15	1.2	2	2,5	3	5	10	10	1.2	1.5	2,5	3	T	T	T	T	T	
	10	15	1.2	1.5	2	2	4	10	10	1	1.5	2,5	3	10	10	10	10	10	
	13	15	1	1.5	2	2	4	10	10	1	1.2	2	3	10	10	10	10	10	
	16	15	1	1.2	1.5	2	3	8	8	1	1.2	1.5	2,5	10	10	10	10	10	
	20	15	0.8	1.2	1.5	1.5	3	8	8	1	1.2	1.5	2,5	10	10	10	10	10	
	25	15	0.7	1.2	1.5	1.5	3	7	7	0.8	1	1.5	2	10	10	10	10	10	
	32	15	–	1.2	1	1.5	2	6	6	–	1	1.5	2	8	8	8	8	10	
	40	15	–	–	1	1.5	2	5	5	–	–	1.2	1.5	7	7	7	7	10	
	50	15	–	–	–	1.2	1.5	4	4	–	–	–	1.5	6	6	6	6	10	
	63	15	–	–	–	–	1.5	3	3	–	–	–	–	6	6	6	6	10	
PKZM0-...	0.16	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	0.25	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	0.4	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	0.63	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	1	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	1.6	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	2.5	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	4	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	6.3	100	4	5	5	T	T	T	T	2	3	4	5	T	T	T	T	T	
	10	100	3	4	5	6	25	T	T	1.5	2.5	4	4	T	T	T	T	T	
	12	50	3	4	5	6	25	T	T	1.5	2.5	4	4	T	T	T	T	T	
	16	50	1.5	1.5	2	3	5	7	T	1	1.6	2	2.5	T	T	T	T	T	
	20	50	0.8	1.5	1.5	2	3	5	T	0.8	1.2	1.5	2	T	T	T	T	T	
	25	50	–	1	1.5	1.5	2.5	4	T	–	1	1.5	2	10	T	T	T	T	
	32	50	–	–	1	1	2	3.5	T	–	–	1	1.5	8	40	T	T	T	
PKZ2/ZM-...	0.6	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	1.0	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	1.6	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	2.4	100	1.2	2	2.5	10	T	T	T	1.2	2	2.5	10	T	T	T	T	T	
	4	100	1	1.5	2	2.5	2.5	4	10	1	1.5	2	2.5	2.5	10	10	10	T	
	6	100	0.6	0.8	1	1.2	2	3	8	0.6	0.8	1	1.2	2	8	8	8	10	
	10	100	0.5	0.7	0.8	1	1.2	2	4	0.5	0.7	0.8	1	1.2	4	4	4	5	
	16	100	0.5	0.6	0.7	0.8	1.2	1.5	3	0.5	0.6	0.7	0.8	1.2	3	3	3	4	
	25	30	–	0.6	0.7	0.7	1.2	1.5	2	–	0.6	0.7	0.7	1.2	2	2	2	3	
	32	30	–	–	0.6	0.7	1.2	1.5	2	–	–	0.6	0.7	1.2	2	2	2	3	
	40	30	–	–	0.6	0.7	1	1.5	2	–	–	0.6	0.7	1	2	2	2	2	
PKZM4	16	100	0.5	0.8	0.8	0.8	2	5	5	0.5	0.8	0.8	0.8	2	5	5	5	5	
	25	100	–	0.7	0.8	0.8	1.5	5	5	–	0.7	0.8	0.8	1.5	5	5	5	5	
	32	50	–	–	0.8	0.8	1.5	4	4	–	–	0.8	0.8	1.5	4	4	4	4	
	40	50	–	–	–	0.8	1.5	3	3	–	–	–	0.8	1.5	3	3	3	3	
	50	50	–	–	–	–	1	2.5	2.5	–	–	–	–	1	2.5	2.5	2.5	2.5	
	58	50	–	–	–	–	–	2.5	2.5	–	–	–	–	–	2.5	2.5	2.5	2.5	
	63	50	–	–	–	–	–	2	2	–	–	–	–	–	2	2	2	2	

			Incoming circuit-breaker (S1)																
			NZM...2-VE...			**NZM...3-AE...**			**NZM...3-VE...**			**NZM...4-AE...**					**NZM...4-VE...**				
	I_{cu} [kA]		50(100)(150)			50(100)(150)			50(100)(150)			50 (100)					50 (100)				
	I_n [A]		100	160	250	250	400	630	250	400	630	630	800	1000	1250	1600	630	800	1000	1250	1600
Outgoing circuit-breaker (S2)	I_n [A]	I_{cu} [kA]	Selectivity limit I_s [kA] for selectivity between S2 and S1, overload- and short-circuit release set to max. value																
FAZ–B(C)	0.5	15	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	1	15	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	15	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	3	15	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	15	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	6	15	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10	15	10	10	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	13	15	10	10	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	16	15	10	10	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	20	15	10	10	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	25	15	10	10	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	32	15	8	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	40	15	7	7	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	50	15	6	6	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	63	15	6	6	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
PKZM0-...	0.16	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	0.25	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	0.4	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	0.63	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	1	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	1.6	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2.5	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	6.3	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	12	50	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	16	50	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	20	50	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	25	50	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	32	50	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
PKZ2/ZM-...	0.6	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	1.0	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	1.6	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2.4	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	100	10	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	6	100	8	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10	100	4	4	5	5	13	T	5	13	T	T	T	T	T	T	T	T	T	T	T
	16	100	3	3	4	4	7	T	4	7	T	T	T	T	T	T	T	T	T	T	T
	25	30	2	2	3	3	5	20	3	5	20	T	T	T	T	T	T	T	T	T	T
	32	30	2	2	3	3	3.5	15	3	3.5	15	T	T	T	T	T	T	T	T	T	T
	40	30	2	2	2.5	2.5	3.5	15	2.5	3.5	15	T	T	T	T	T	T	T	T	T	T
PKZM4	16	100	5	5	6	6	16	45	6	16	45	45	T	T	T	T	45	T	T	T	T
	25	100	5	5	3.3	3.3	10	25	3.3	10	25	25	42	T	T	T	25	42	T	T	T
	32	50	4	4	3	3	8	18	3	8	18	18	30	45	T	T	18	30	45	T	T
	40	50	3	3	3	3	8	18	3	8	18	18	30	45	T	T	18	30	45	T	T
	50	50	2.5	2.5	3	3	8	18	3	8	18	18	30	45	T	T	18	30	45	T	T
	58	50	2.5	2.5	2.5	2.5	6.5	15	2.5	6.5	15	15	25	40	T	T	15	25	40	T	T
	63	50	2	2	2.5	2.5	6.5	15	2.5	6.5	15	15	25	40	T	T	15	25	40	T	T

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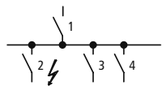

Incoming circuit-breaker

Outgoing circuit-breaker

Selectivity 415 V AC
between circuit-breakers enables separate shut-down of faulty system sections.
Incoming circuit-breaker 1 and outgoing circuit-breaker 2 operate selectively
if in the event of a short-circuit at position 2 **only** the outgoing circuit-breaker 2 trips out.
System sections 3 and 4 continue to operate.

			Incoming circuit-breaker																
			NZM...1-A...							**NZM...2-A...**								
	[kA]		25(50)(100)							25(50)(100)(150)								
	[A]		20...40	50	63	80	100	125	160	20...40	50	63	80	100	125	160	200	250
Outgoing circuit-breaker		$I_{cu(415V)}$ [kA]	Prospective short-circuit current (kA). Set the overload and short-circuit release of the incoming circuit-breaker to the max. value.															
NZM...1-A...	20 ... 40	25 ...	–	–	0.5	0.7	0.8	1.5	1.5	–	–	0.6	0.8	1.5	1.5	1.5	2	3
	50	25 ...	–	–	–	0.6	0.8	1.5	1.5	–	–	–	0.8	1.5	1.5	1.5	2	3
	63	25 ...	–	–	–	–	0.8	1.5	1.5	–	–	–	–	1.5	1.5	1.5	2	3
	80	25 ...	–	–	–	–	–	1.5	1.5	–	–	–	–	–	1.5	1.5	2	3
	100	25 ...	–	–	–	–	–	–	1.5	–	–	–	–	–	–	1.5	2	3
	125	25 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2	3
	160	25 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2	3
NZM...2-A...	20 ... 40	25 ...	–	–	0.5	0.6	0.8	1	1	–	–	0.5	0.6	0.8	1	1.2	1.6	2
	50	25 ...	–	–	–	0.6	0.8	1	1	–	–	–	0.6	0.8	1	1.2	1.6	2
	63	25 ...	–	–	–	–	0.8	1	1	–	–	–	–	0.8	1	1.2	1.6	2
	80	25 ...	–	–	–	–	–	1	1	–	–	–	–	–	1	1.2	1.6	2
	100	25 ...	–	–	–	–	–	–	1	–	–	–	–	–	–	1.2	1.6	2
	125	25 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1.6	2
	160	25 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2
	200	25 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	250	25 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
NZM...1-M...	20 ... 40	25 ... 50	–	–	–	–	0.8	1	1	–	–	–	–	0.8	1	1.2	1.6	2
	50	25 ... 50	–	–	–	–	–	–	1	–	–	–	–	–	–	1.2	1.6	2
	63	25 ... 50	–	–	–	–	–	–	1	–	–	–	–	–	–	1.2	1.6	2
	80	25 ... 50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1.6	2
	100	25 ... 50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2
NZM...2-M...	20 ...	25 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	160	25 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	200	25 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
NZM...2-VE...	100	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	1.2	1.6	2
	160	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	250	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
NZM...2-ME...	90	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	1.2	1.6	2
	140	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	220	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
NZM...3-AE...	250	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	400	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	630	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
NZM...3-VE...	250	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	400	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	630	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
NZM...3-ME...	220	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	350	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	450	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
NZM...4-AE...	630	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	800	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	1000	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	1250	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	1600	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
NZM...4-VE...	630	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	800	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	1000	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	1250	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	1600	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
NZM...4-ME...	550	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	875	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	1400	50 ...	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Notes T: total selectivity

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	Incoming circuit-breaker																			
	NZM...2-VE...			**NZM...3-AE...**			**NZM...3-VE...**			**NZM...4-AE...**					**NZM...4-VE...**				
	50(100)(150)			50(100)(150)			50(100)(150)			50 (100)					50 (100)				
	100	160	250	250	400	630	250	400	630	630	800	1000	1250	1600	630	800	1000	1250	1600
	Prospective short-circuit current (kA). Set the overload and short-circuit release of the incoming circuit-breaker to the max. value.																		
	2	5	7.5	7.5	20	20	12.5	25	25	T	T	T	T	T	T	T	T	T	T
	2	5	7.5	7.5	20	20	12.52	25	25	T	T	T	T	T	T	T	T	T	T
	2	5	6	6	15	15	11	20	20	T	T	T	T	T	T	T	T	T	T
	–	5	6	6	15	15	11	20	20	T	T	T	T	T	T	T	T	T	T
	–	5	6	6	15	15	11	20	20	T	T	T	T	T	T	T	T	T	T
	–	5	6	6	15	15	11	20	20	T	T	T	T	T	T	T	T	T	T
	–	5	6	6	15	15	11	20	20	T	T	T	T	T	T	T	T	T	T
	1	2	4	6	15	15	11	20	20	T	T	T	T	T	T	T	T	T	T
	1	2	4	6	15	15	11	20	20	T	T	T	T	T	T	T	T	T	T
	1	2	4	6	15	15	11	20	20	T	T	T	T	T	T	T	T	T	T
	–	2	4	6	15	15	11	20	20	T	T	T	T	T	T	T	T	T	T
	–	2	4	6	15	15	11	20	20	T	T	T	T	T	T	T	T	T	T
	–	–	4	6	15	15	11	20	20	T	T	T	T	T	T	T	T	T	T
	–	–	4	5	10	10	10	15	15	T	T	T	T	T	T	T	T	T	T
	–	–	–	–	10	10	–	15	15	T	T	T	T	T	T	T	T	T	T
	–	–	–	–	10	10	–	15	15	T	T	T	T	T	T	T	T	T	T
	1	2	4	6	15	15	11	20	20	T	T	T	T	T	T	T	T	T	T
	–	2	4	6	15	15	11	20	20	T	T	T	T	T	T	T	T	T	T
	–	2	4	6	15	15	11	20	20	T	T	T	T	T	T	T	T	T	T
	–	2	4	6	15	15	11	20	20	T	T	T	T	T	T	T	T	T	T
	–	–	4	6	15	15	11	20	20	T	T	T	T	T	T	T	T	T	T
	–	–	2	6	7	10	7	10	12	20	20	50	T	T	20	20	50	T	T
	–	–	–	6	7	10	7	10	12	20	20	50	T	T	20	20	50	T	T
	–	–	–	–	7	10	–	10	12	20	20	50	T	T	20	20	50	T	T
	–	1.2	2	6	7	10	7	8	11	20	20	50	T	T	20	20	50	T	T
	–	–	2	6	7	10	7	8	11	20	20	50	T	T	20	20	50	T	T
	–	–	–	–	7	10	–	8	11	20	20	50	T	T	20	20	50	T	T
	–	–	2	6	7	10	5	10	12	T	T	T	T	T	T	T	T	T	T
	–	–	–	6	7	10	5	10	12	T	T	T	T	T	T	T	T	T	T
	–	–	–	–	7	10	5	10	12	T	T	T	T	T	T	T	T	T	T
	–	–	–	–	5	7.5	–	10	12	T/80	T/80	T/80	T/80	T/80	T/80	T/80	T/80	T/80	T/80
	–	–	–	–	–	7.5	–	–	12	T/80	T/80	T/80	T/80	T/80	T/80	T/80	T/80	T/80	T/80
	–	–	–	–	–	–	–	–	–	–	T/80	T/80	T/80	T/80	–	T/80	T/80	T/80	T/80
	–	–	–	–	3.5	4	–	10	12	T/80	T/80	T/80	T/80	T/80	T/80	T/80	T/80	T/80	T/80
	–	–	–	–	–	4	–	–	12	T/80	T/80	T/80	T/80	T/80	T/80	T/80	T/80	T/80	T/80
	–	–	–	–	–	–	–	–	–	–	T/80	T/80	T/80	T/80	–	T/80	T/80	T/80	T/80
	–	–	–	–	3.5	4	–	10	12	T/80	T/80	T/80	T/80	T/80	T/80	T/80	T/80	T/80	T/80
	–	–	–	–	–	4	–	–	12	T/80	T/80	T/80	T/80	T/80	T/80	T/80	T/80	T/80	T/80
	–	–	–	–	–	–	–	–	–	–	T/80	T/80	T/80	T/80	–	T/80	T/80	T/80	T/80
	–	–	–	–	–	–	–	–	–	–	10	15	20	20	–	10	15	20	20
	–	–	–	–	–	–	–	–	–	–	–	–	20	20	–	–	–	20	20
	–	–	–	–	–	–	–	–	–	–	–	–	20	20	–	–	–	20	20
	–	–	–	–	–	–	–	–	–	–	–	–	–	20	–	–	–	–	20
	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	–	–	–	–	10	15	20	20	–	10	15	20	20
	–	–	–	–	–	–	–	–	–	–	–	–	20	20	–	–	–	20	20
	–	–	–	–	–	–	–	–	–	–	–	–	20	20	–	–	–	20	20
	–	–	–	–	–	–	–	–	–	–	–	–	–	20	–	–	–	–	20
	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	–	–	–	–	–	–	20	20	–	–	–	20	20
	–	–	–	–	–	–	–	–	–	–	–	–	–	20	–	–	–	–	20
	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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Protection of PVC insulated cables against thermal overload with short-circuits

In accordance to VDE 0100 part 430 the cables and conductors must be protected against overload and short-circuit. In circuit-breakers NZM, the overload protection is implemented via the adjustable, current-dependant time-delayed overload releases.

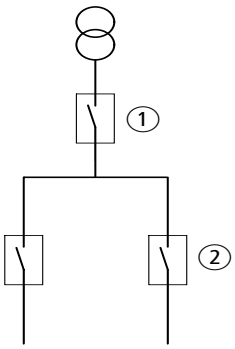
Short-circuit protection is provided by adjustable instantaneous releases, which open the main contacts in less than 25 ms.
The short-circuit total opening time restricts the temperature rise of the cable to a minimum.

The tables indicate the minimum conductor cross-section reliably protected by circuit-breakers during a short-circuit.
(Operating voltage U_n = 415 V)

	Minimum protected cross-section mm² copper
NZM...1(-4)-...20	6
NZM...1(4)-...25 – 160	10
NZM...2(-4)-...20 – 250	4
NZM...3(-4)-...250 – 630	16
NZM...4(-4)-...630 – 1600	95

Backup protection

Between NZM(N)(H)(L) incoming circuit-breaker and NZMB(N)(H)... outgoing circuit-breaker



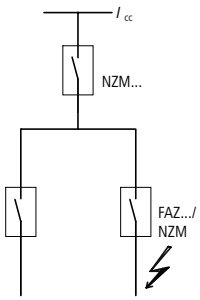
			Incoming circuit-breaker ①											
			NZM1				NZM2					NZM3		
	I_n		Up to 160 A				Up to 250 A					Up to 630kA		
	I_{cu}		25 kA		50 kA	100 kA	25 kA		50 kA	100 kA	150 kA	50 kA	100 kA	150 kA
Outgoing circuit-breaker ②														
	I_{cu}(415 V)	I_n												
NZMB1	25 kA	Up to 160 A	25		50	100	25		50	100	100	50	100	100
NZMN1	50 kA	Up to 160 A	–		50	100	–		50	100	100	50	100	100
NZMH1	100 kA	Up to 160 A	–		–	100	–		–	100	100	–	100	100
NZMB2	25 kA	Up to 250 A	25		50	100	25		50	100	150	50	100	150
NZMN2	50 kA	Up to 250 A	–		50	100	–		50	100	150	50	100	150
NZMH2	100 kA	Up to 250 A	–		–	100	–		–	100	150	–	100	150
NZMN3	50 kA	Up to 630 A	–		–	–	–		–	–	–	50	100	150
NZMH3	100 kA	Up to 630 A	–		–	–	–		–	–	–	–	100	150

Where the prospective fault current at the point of installation of circuit-breakers is very high, it is conventional to use NZMN(H)(L) current-limiting circuit-breakers. An attractively priced alternative is to fit a NZMN(H)(L) current-limiting circuit-breaker at the point in the network upstream of NZMB(N)(H) standard circuit-breakers, if the fault level is too high for NZMB(N)(H) switches.

The table indicates which current-limiting circuit-breakers NZMN(H)(L) in combination with NZM(B)(N)(H) are to be used to provide protection at the network locations with high short-circuit capacities.

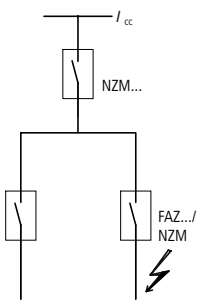
The selectivity limit is determined by the response current of the non-delayed short-circuit release in the upstream incoming circuit-breaker. In many applications this is sufficient.

between NZM...1-A... incoming circuit-breaker and FAZ-B(C)/PLSM-B(C)... outgoing circuit-breaker



Outgoing circuit-breaker	Incoming circuit-breaker	
	NZMB1-A...	NZMN1-A...
FAZ-(2)(3)(4)(N)-B(C)...		
0,5 – 16	25 kA	30 kA
20 – 40	20 kA	20 kA
50, 63	15 kA	15 kA
PLSM-B(C)...(/...)		
0,5 – 16	25 kA	30 kA
20 – 40	20 kA	20 kA
50, 63	15 kA	15 kA

between NZM...2-A... incoming circuit-breaker and FAZ-B(C)/PLSM-B(C)... outgoing circuit-breaker



Outgoing circuit-breaker	Incoming circuit-breaker		
	NZMB2-A...		NZMN(H)(L)2-A...
FAZ-(2)(3)(4)(N)-B(C)...			
0,5 – 10	25 kA		50 kA
13 – 32	25 kA		30 kA
40 – 63	20 kA		20 kA
PLSM-B(C)...(/...)			
0,5 – 10	25 kA		50 kA
13 – 32	25 kA		30 kA
40 – 63	20 kA		20 kA

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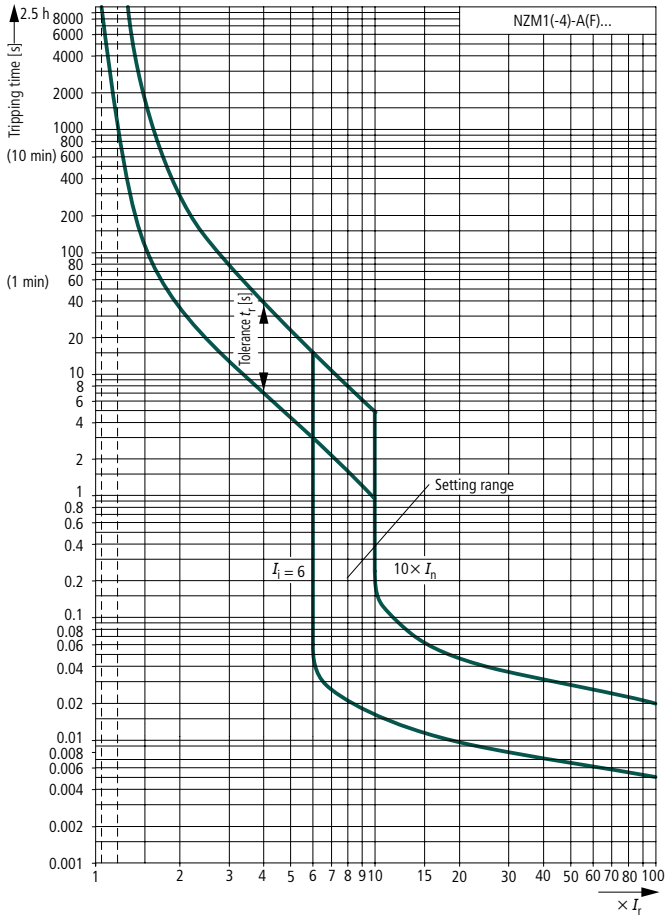
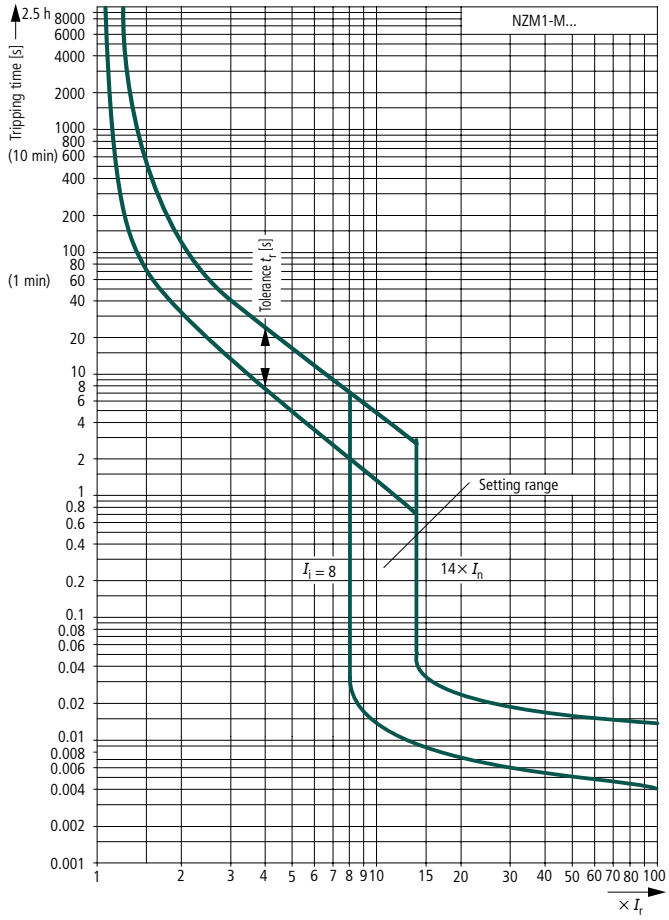
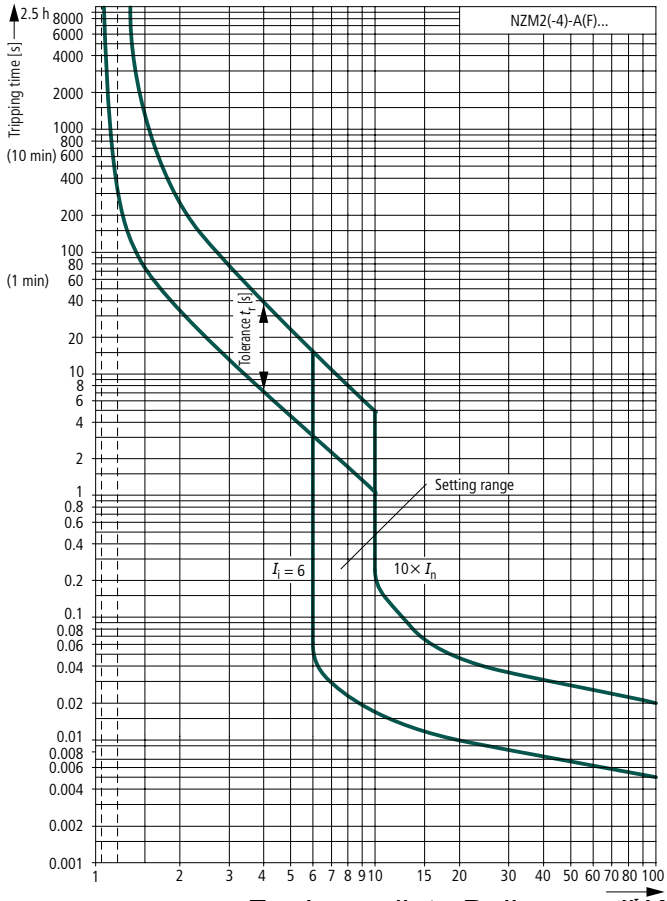
System and line protection with NZM1



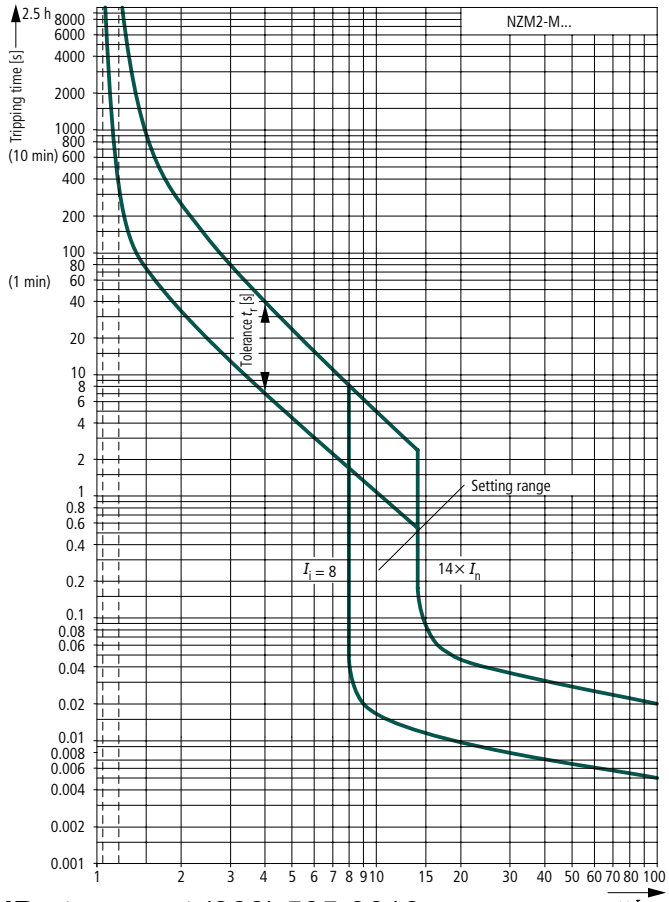
Motor protection with NZM1



System and line protection with NZM2



Motor protection with NZM2



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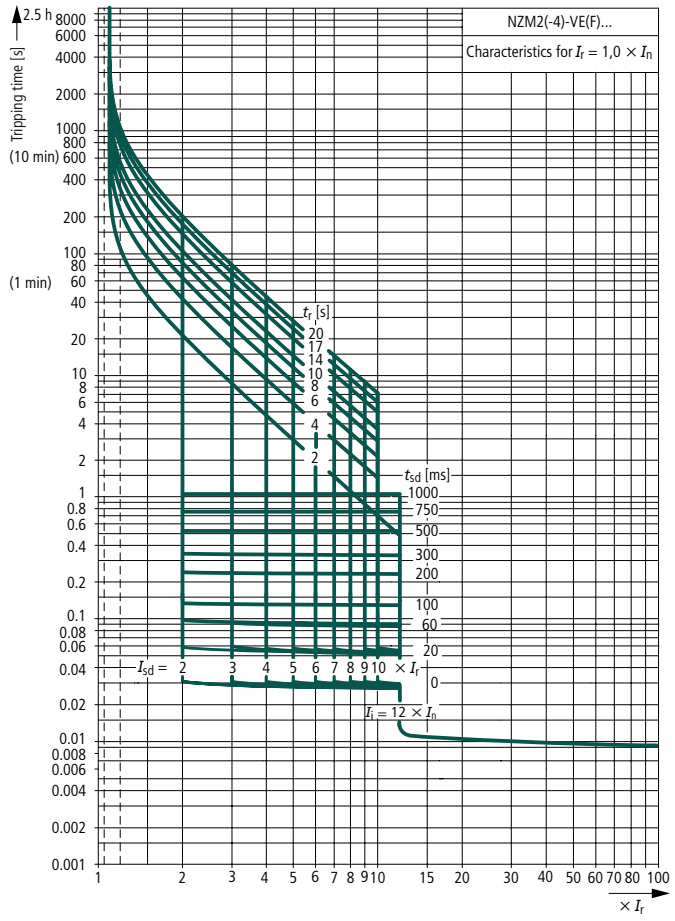
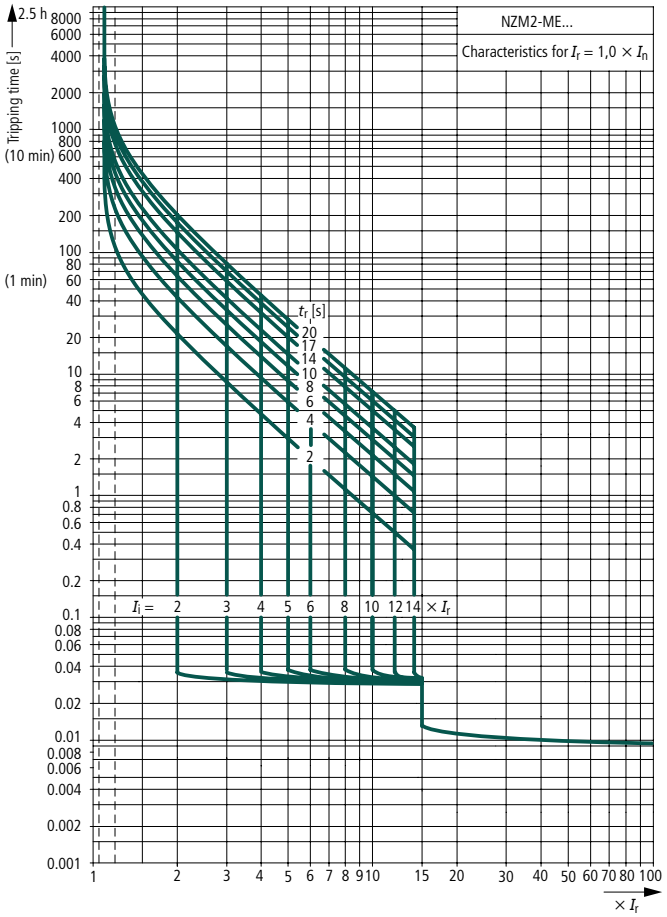
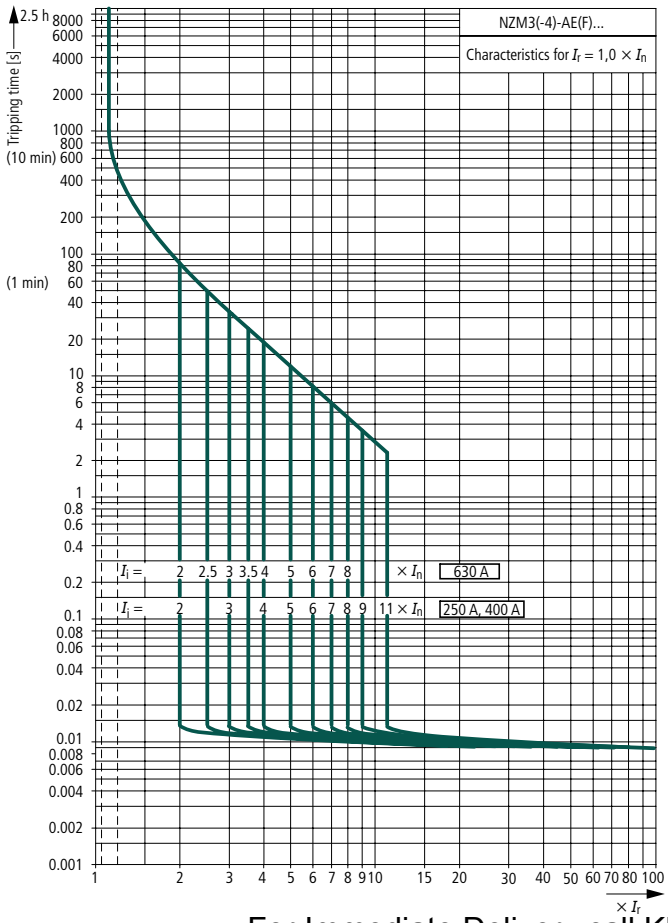
Systems, cable, selectivity and generator protection with NZM2



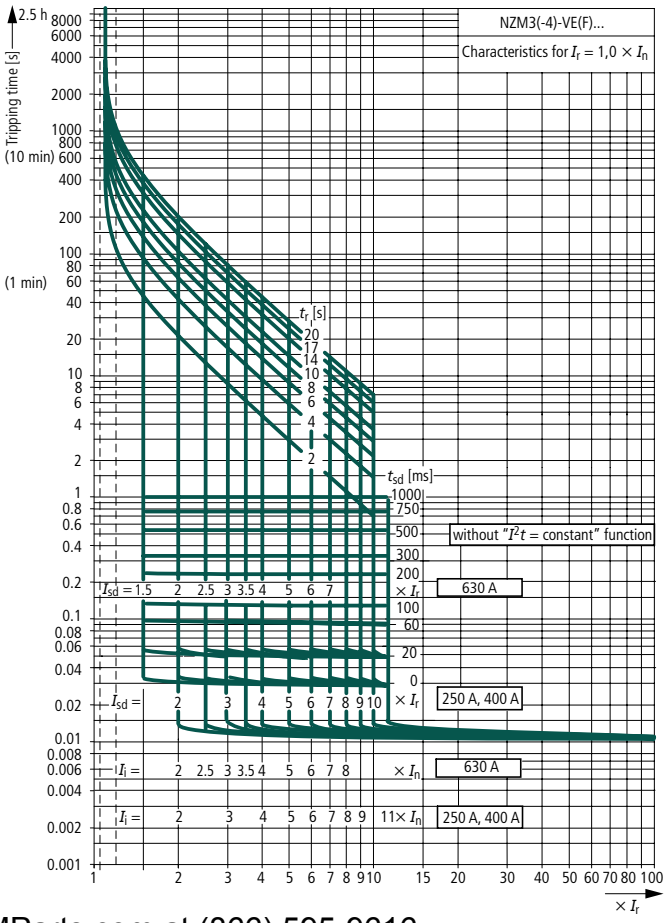
Motor protection with NZM2



System and line protection with NZM3



Systems, cable, selectivity and generator protection with NZM3



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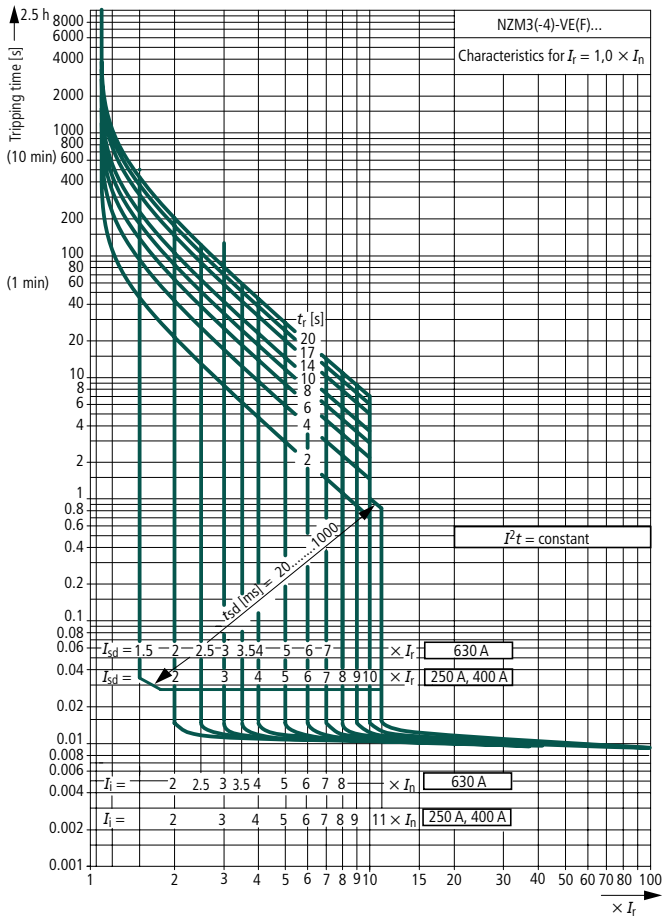
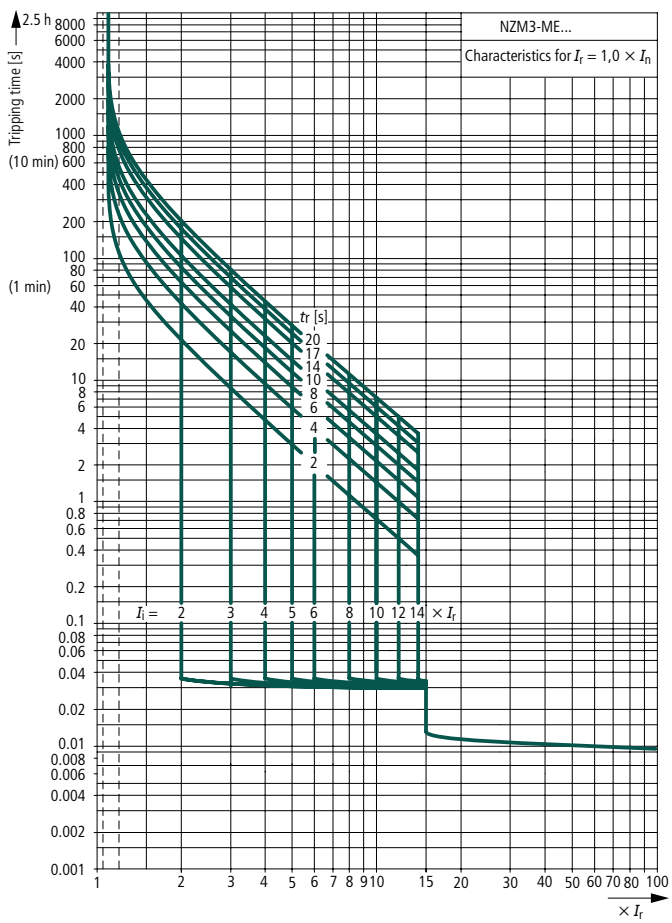
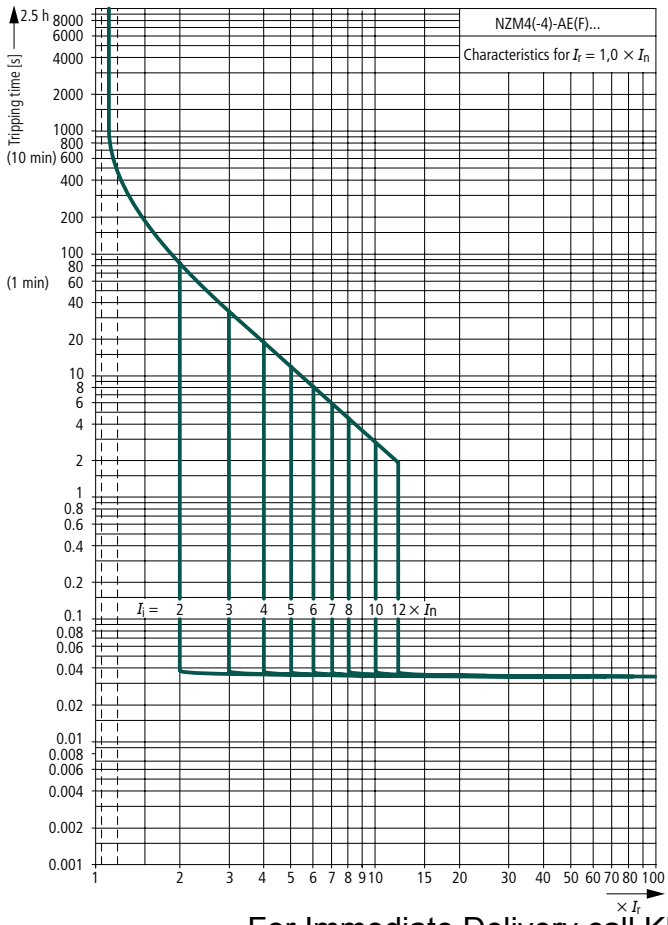
Systems, cable, selectivity and generator protection with NZM3



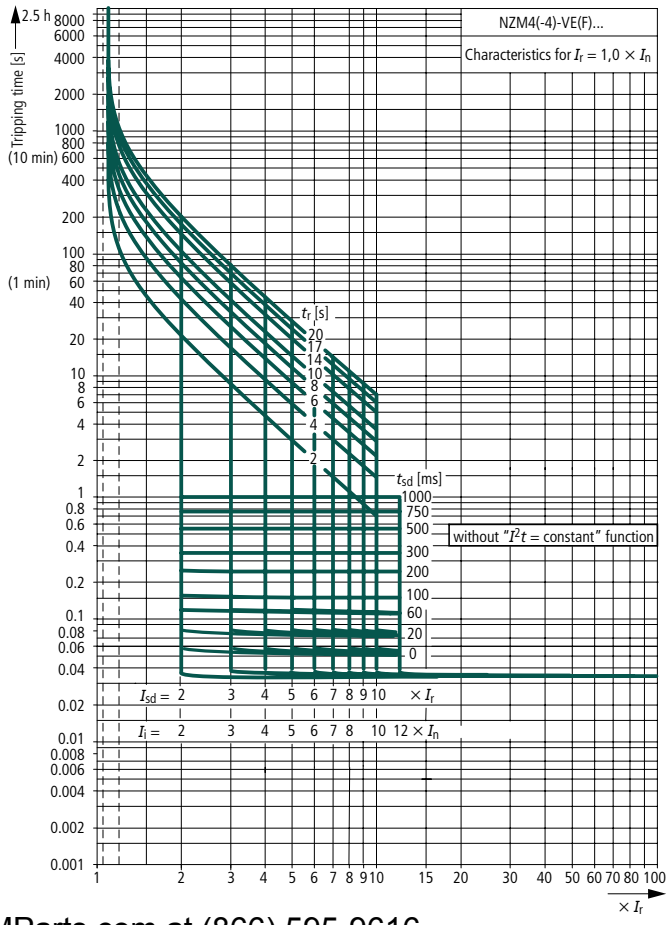
Motor protection with NZM3



System and line protection with NZM4



Systems, cable, selectivity and generator protection with NZM4



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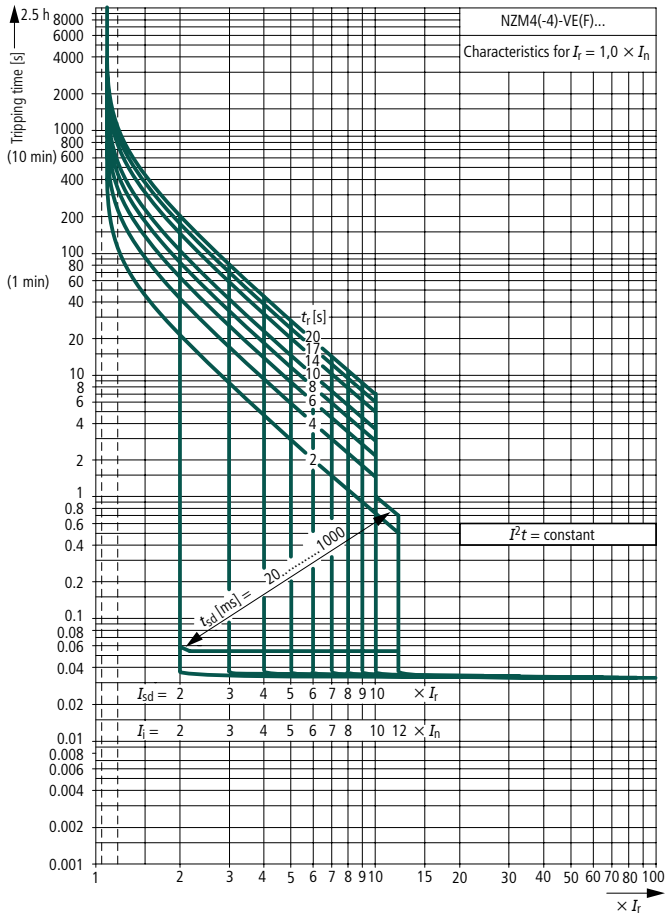
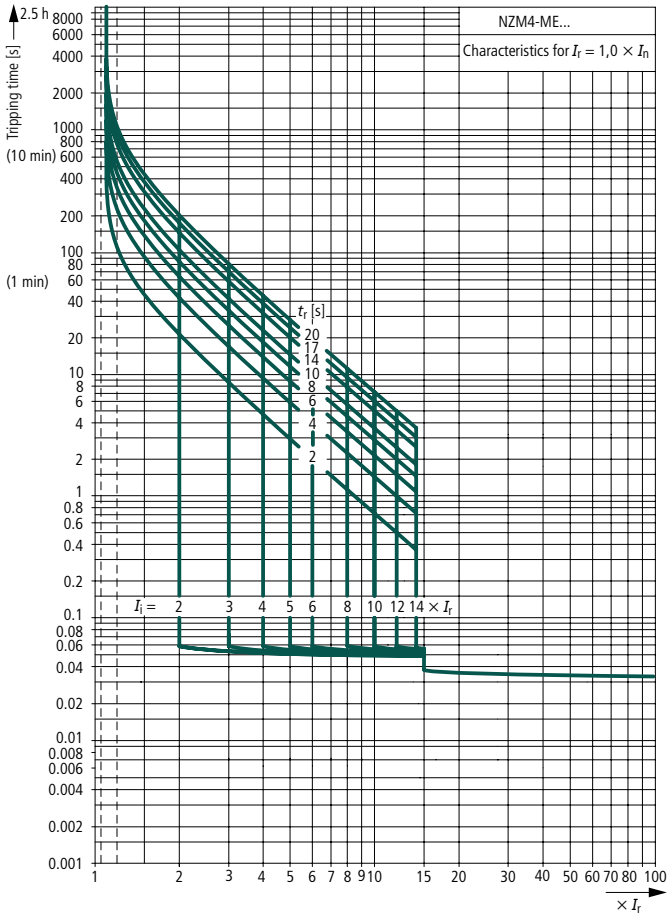
Systems, cable, selectivity and generator protection with NZM4



Motor protection with NZM4



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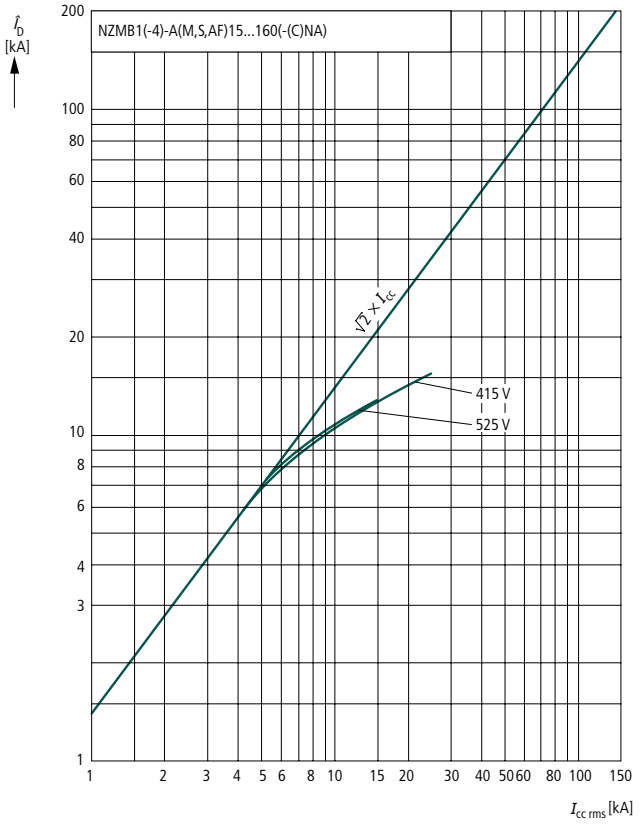
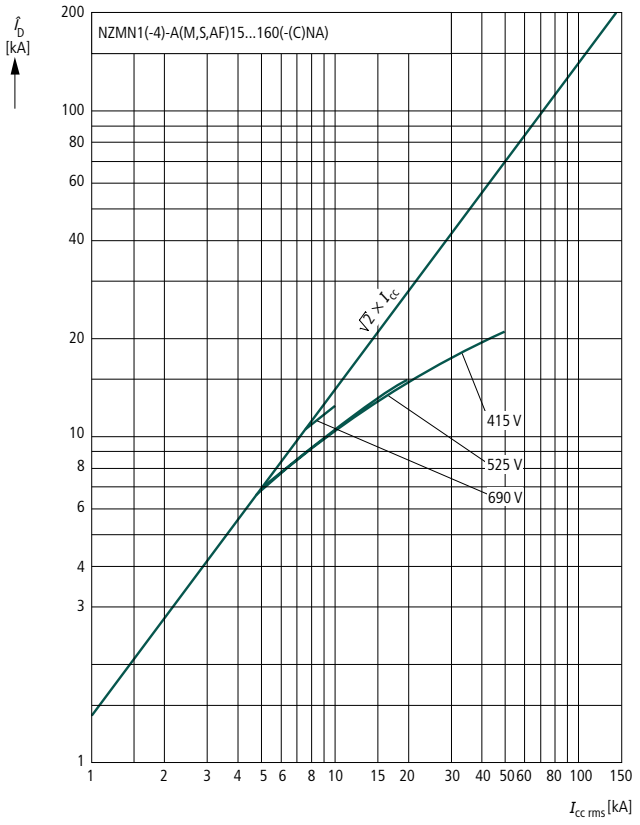
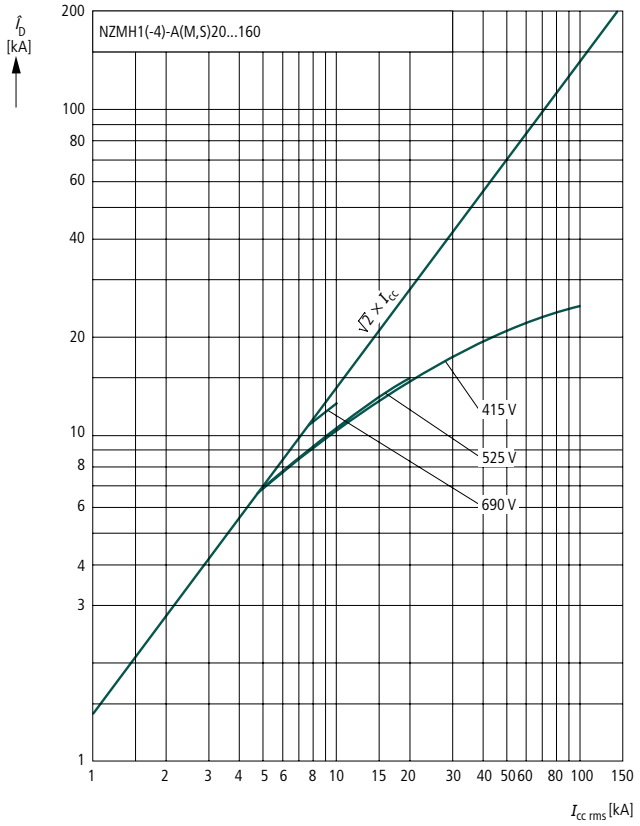
Let-through current $\hat{i}_D$







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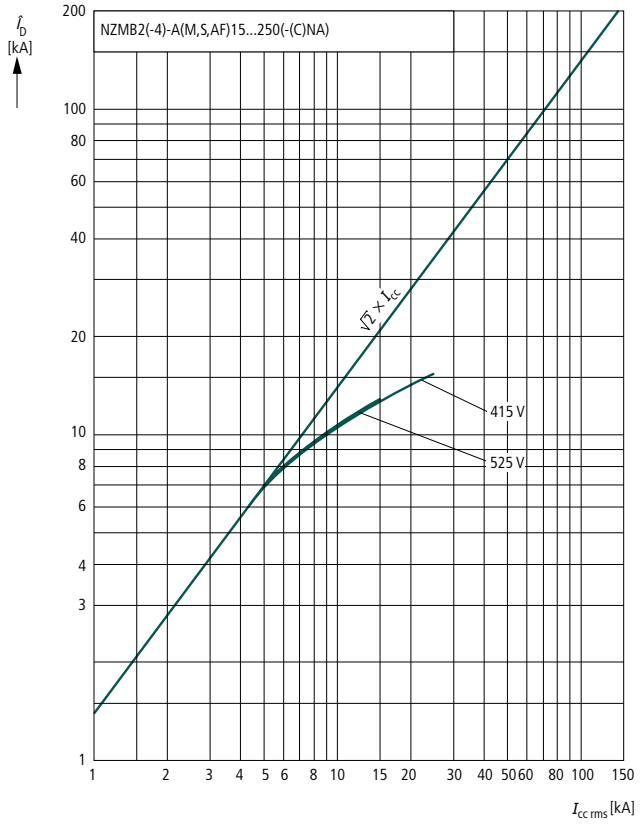
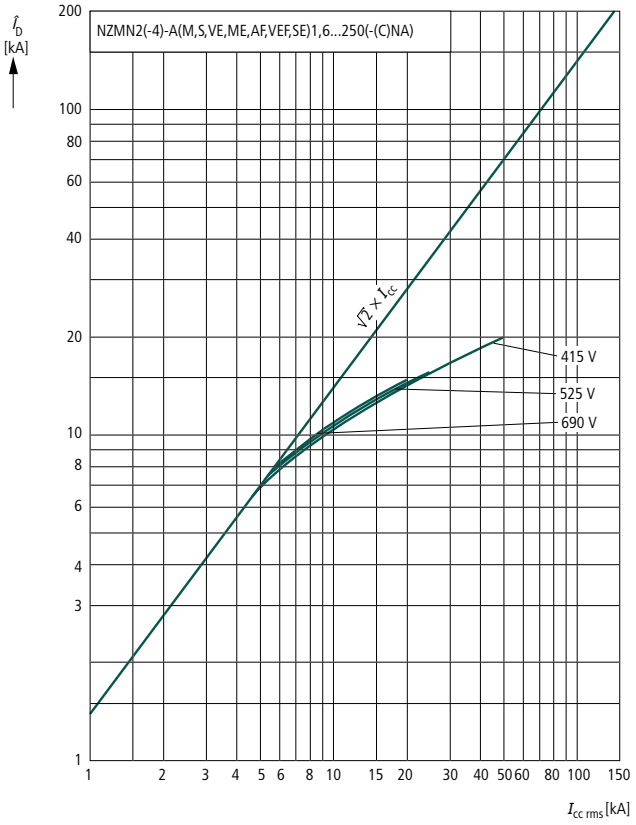
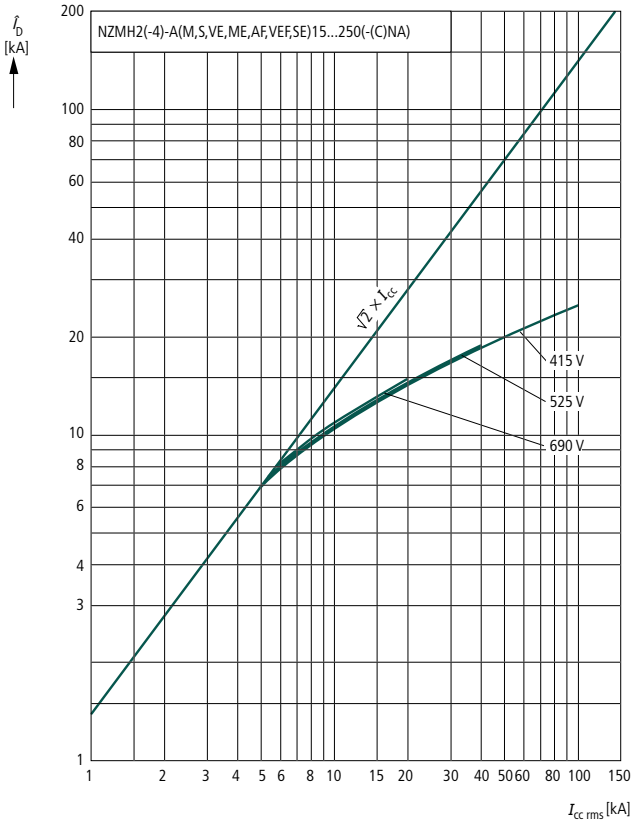
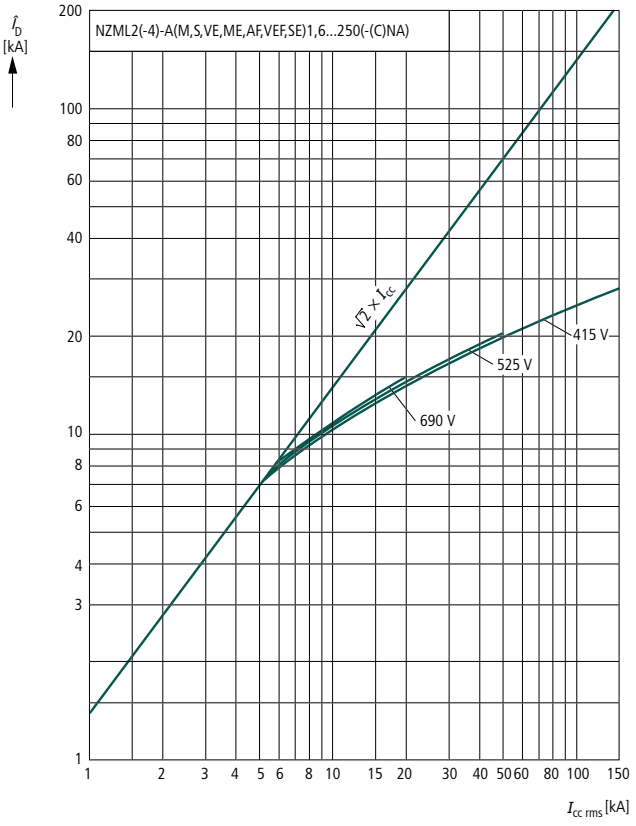
Let-through current $\hat{i}_D$









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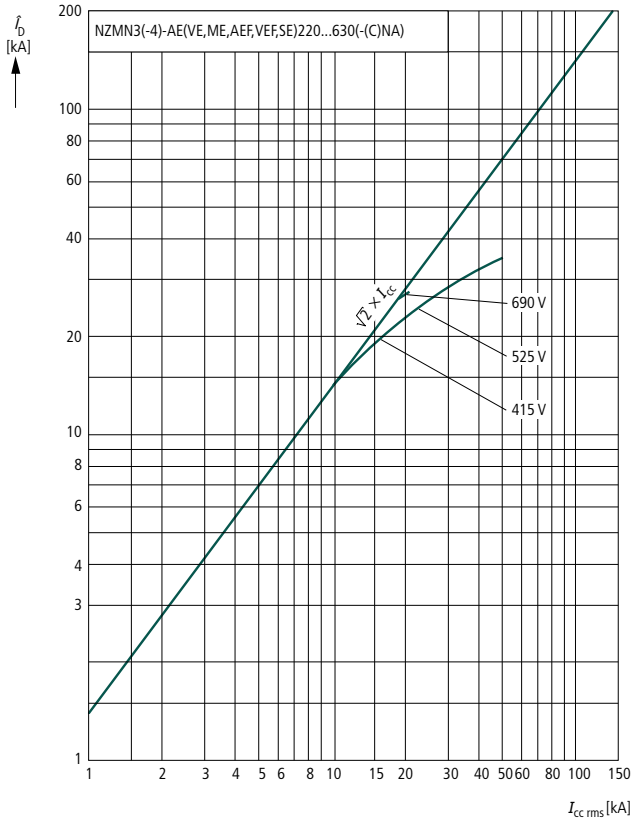
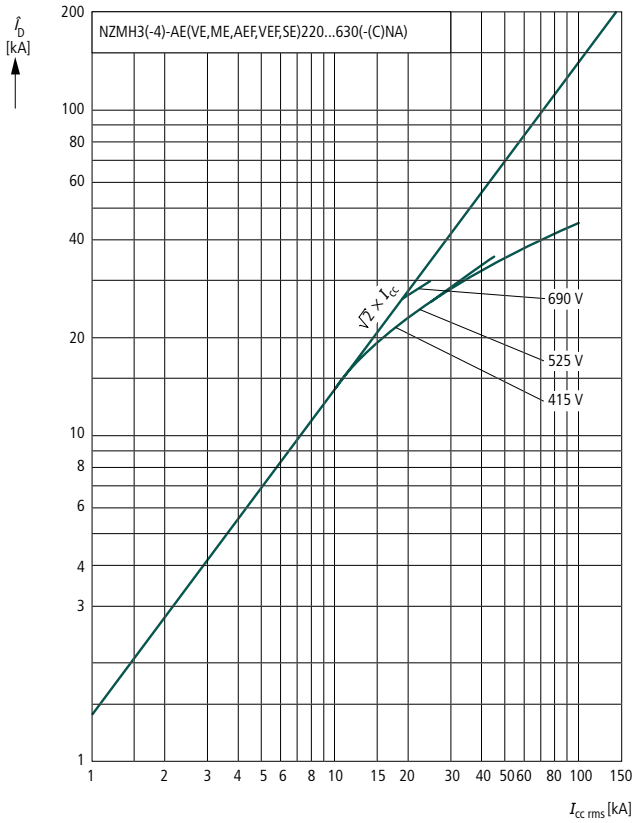
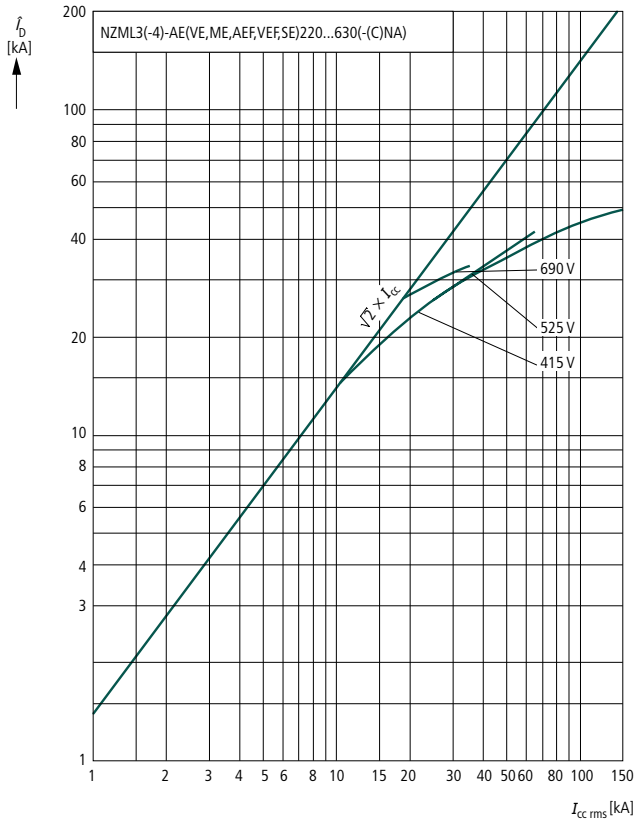
Let-through current $\hat{i}_D$







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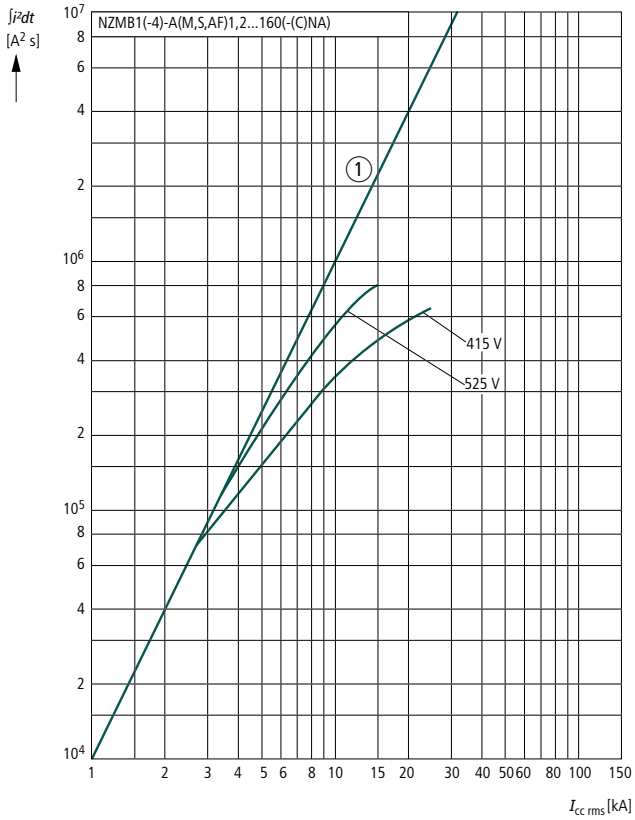
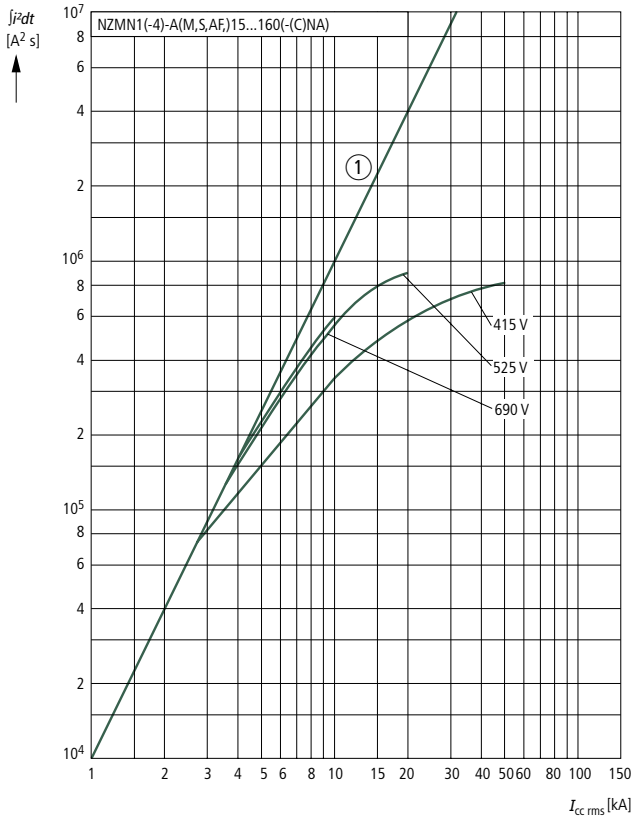
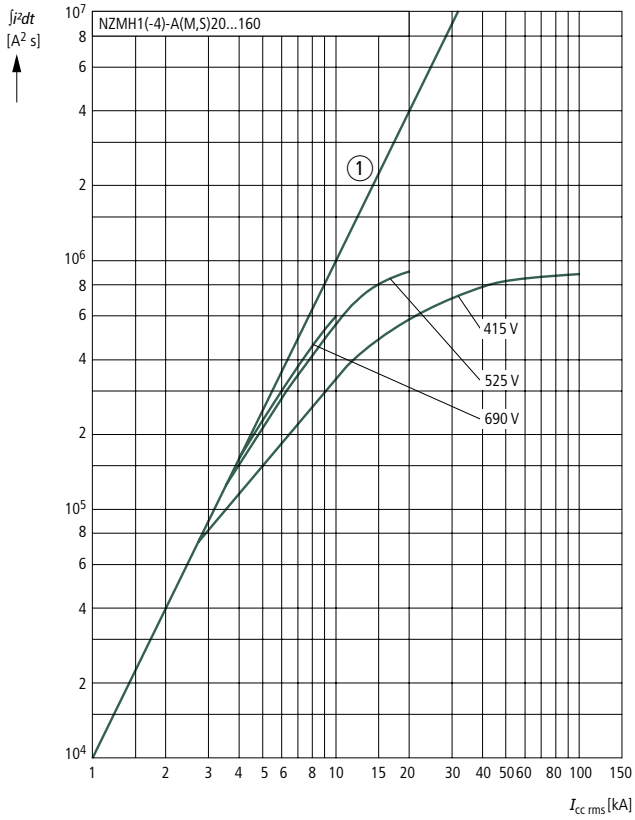
Let-through energy I^2t







① 1st half-wave

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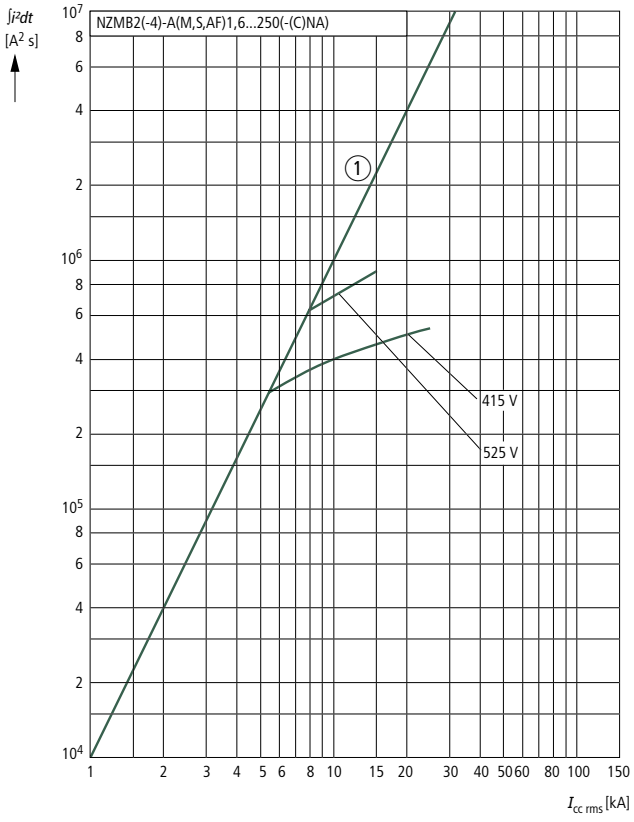
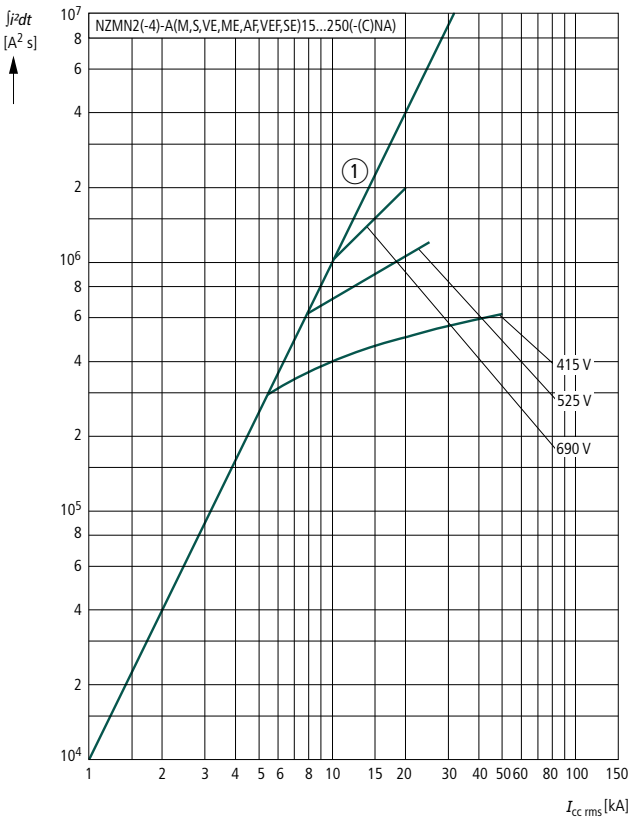
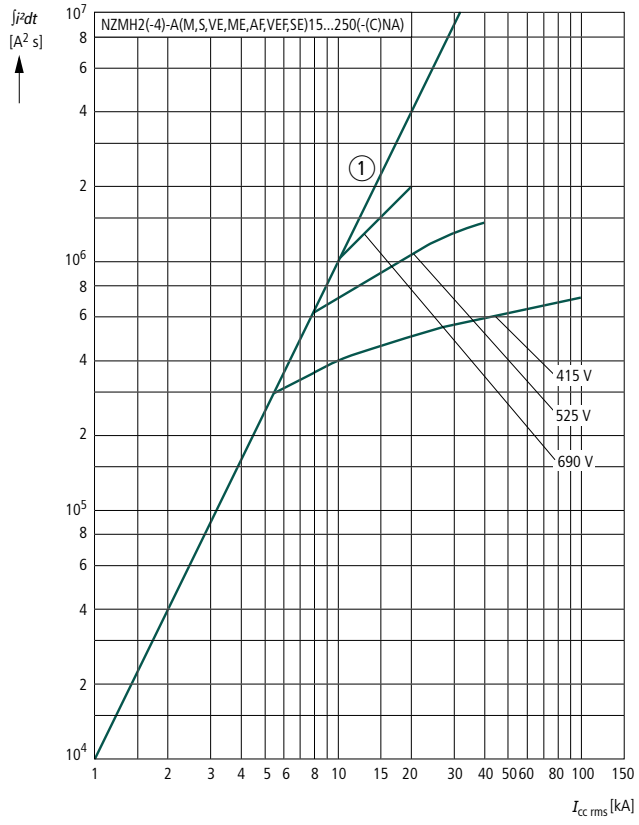
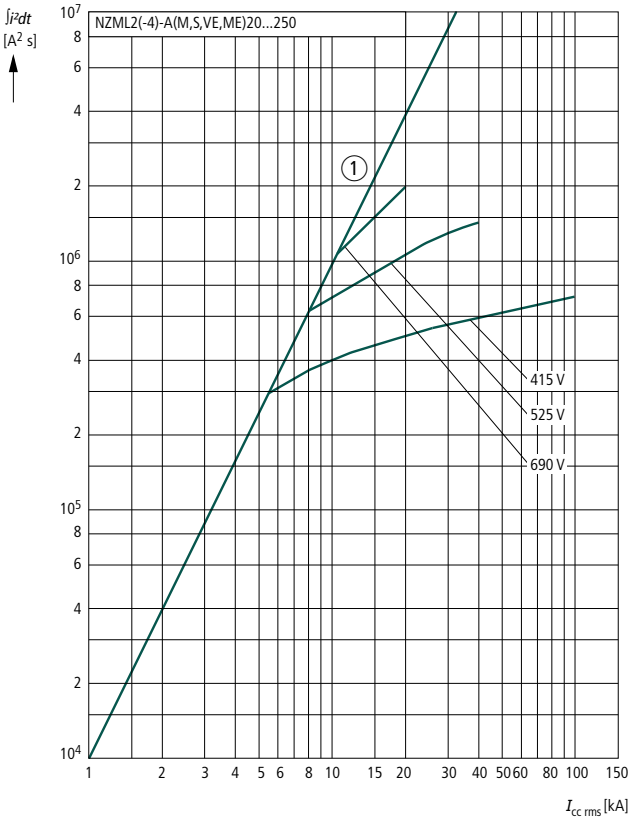
Let-through energy I^2t









① 1st half-wave

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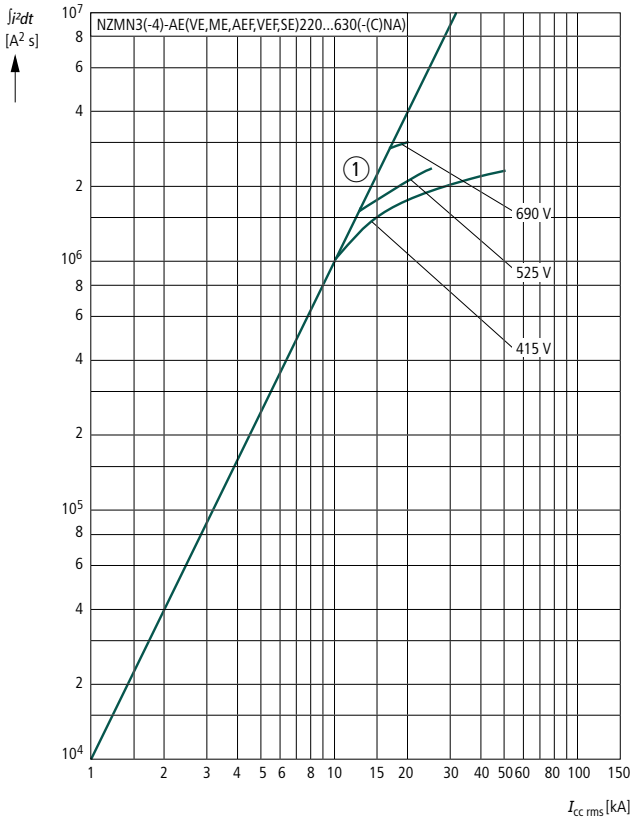
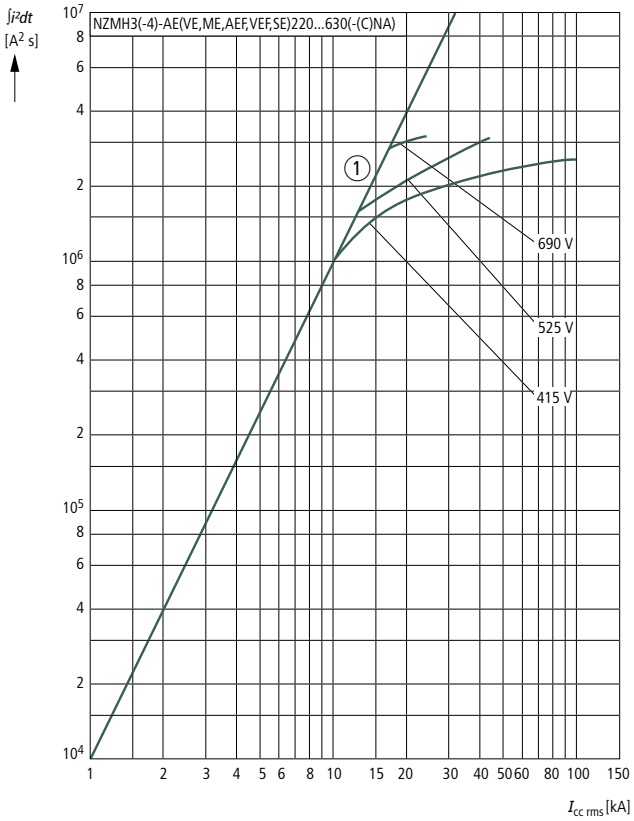
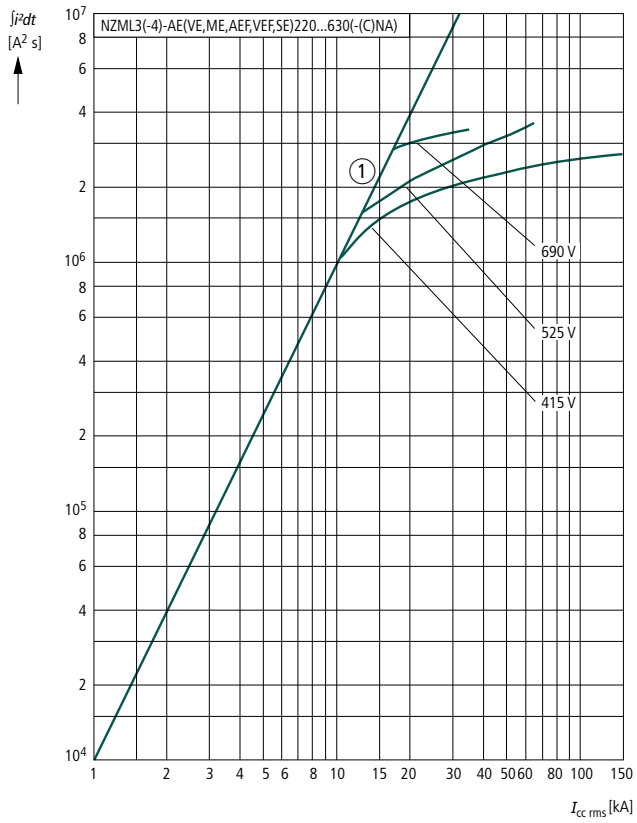
Let-through energy I^2t







① 1st half-wave

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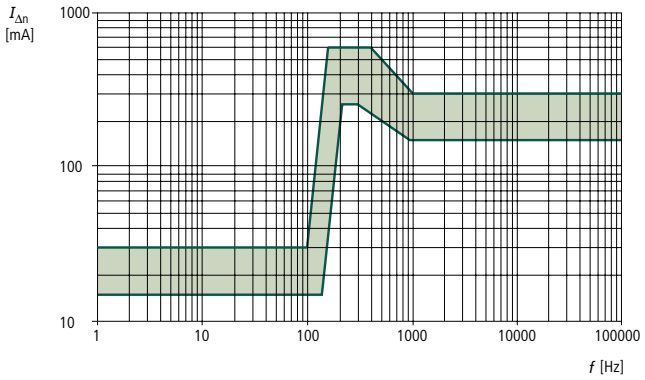
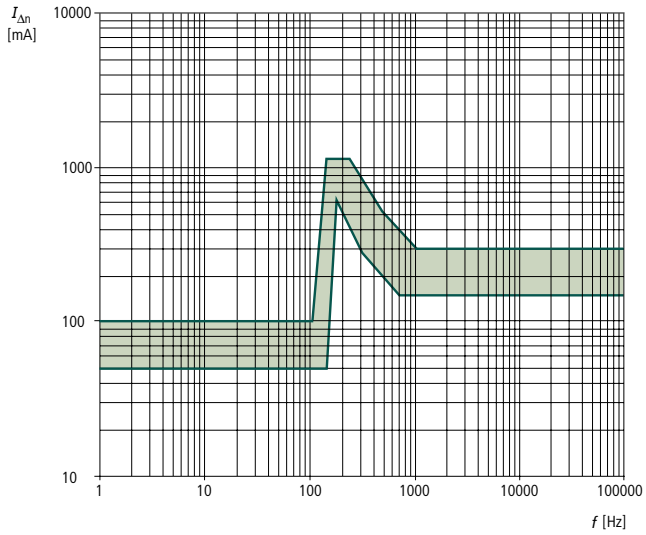
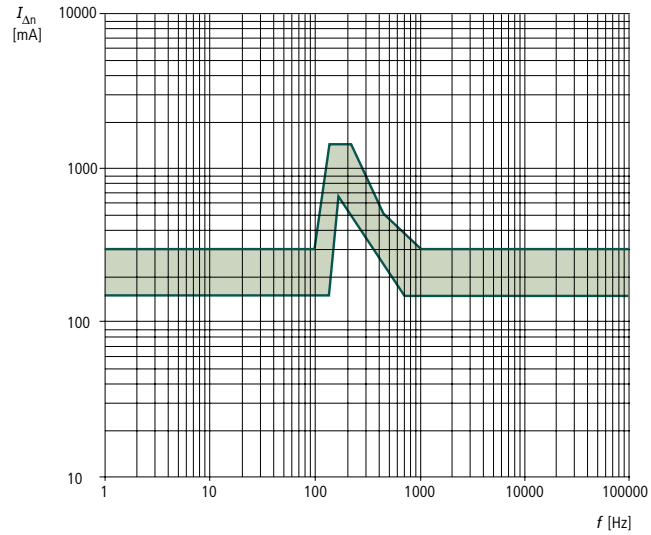
Frequency response NZM2-4-XFIA30
30 mA



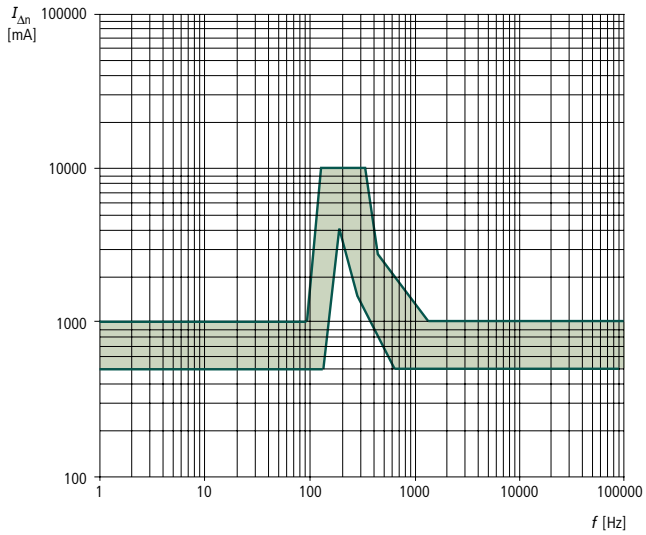
Frequency response NZM2-4-XFIA
100 mA



Frequency response NZM2-4-XFIA
300 mA



Frequency response NZM2-4-XFIA
1000 mA



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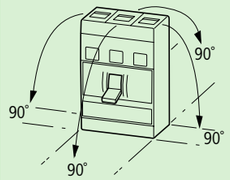
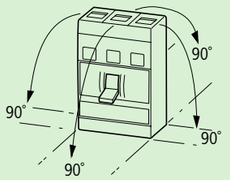
Circuit-breakers, switch-disconnectors up to 1600 A

Moeller SK1230-1157GB-INT

			Rated uninterrupted current: 160 A			Rated uninterrupted current: 250 A				Rated uninterrupted current: 630 A			Rated uninterrupted current: 1600 A		
			NZMB1	NZMN1	NZMH1	NZMB2	NZMN2	NZMH2	NZML2	NZMN3	NZMH3	NZML3	NZMN4	NZMH4	NZML4
General															
Standards			IEC/EN 60947			IEC/EN 60947									
Protection against direct contact			Finger and back of hand proof to VDE 0106 Part 100			Finger and back of hand proof to VDE 0106 Part 100									
Climatic proofing			Damp heat, constant, according to IEC 60068-2-78 Damp heat, cyclical to IEC 60068-2-30			Damp heat, constant, according to IEC 60068-2-78 Damp heat, cyclical to IEC 60068-2-30									
Ambient temperature															
Storage		°C	-25/+70			-25/+70									
Operation		°C	-25/+70			-25/+70									
Mechanical shock resistance (IEC/EN 60068-2-27)			20 (half-sinusoidal shock 20 ms)			20 (half-sinusoidal shock 20 ms)									
Safe isolation to VDE 0106 Part 101 and Part 101/A1															
Between auxiliary contacts and main contacts		V AC	500			500									
between the auxiliary contacts		V AC	300			300									
Mounting position			Vertical and 90° in all directions 			Vertical and 90° in all directions  With plug-in adapter NZM2: vertical, 90° right/left With withdrawable unit NZM3: vertical, 90° left NZM4: vertical with remote operator: NZM2, NZM3, NZM4: vertical and 90° in all directions								
Direction of incoming supply			As required			As required									
Degree of protection															
Device			In the operating controls area: IP20 (basic degree of protection)			In the operating controls area: IP20 (basic degree of protection)									
Enclosures			With insulating surround: IP40, with door coupling rotary handle: IP66			With insulating surround: IP40, with door coupling rotary handle: IP66									
Terminals			Tunnel terminal: IP10 Phase isolator and strip terminal: IP00			Tunnel terminal: IP10 Phase isolator and strip terminal: IP00									

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				Rated uninterrupted current: 160 A			
				NZMB1		NZMN1	NZMH1
Circuit-breakers							
Rated impulse withstand voltage U_{imp}							
Main contacts			V	6000		6000	6000
Auxiliary contacts			V	6000		6000	6000
Rated operational voltage		U_e	V AC	690		690	690
Overvoltage category/pollution degree				III/3		III/3	III/3
Rated insulation voltage		U_i	V	690		690	690
For use in IT electrical power networks			V	525		690	690
Switching capacity							
Rated short-circuit making capacity							
	240 V 50/60 Hz	I_{cm}	kA	63		187	220
	400/415 V 50/60 Hz	I_{cm}	kA	53		105	220
	440 V 50/60 Hz	I_{cm}	kA	53		74	74
	525 V 50/60 Hz	I_{cm}	kA	30		40	40
	690 V 50/60 Hz	I_{cm}	kA	–		17	17
Rated short-circuit breaking capacity I_{cn}							
I_{cu} to IEC/EN 60947 operating sequence O-t-CO	240 V 50/60 Hz	I_{cu}	kA	30		85	100
	400/415 V 50/60 Hz	I_{cu}	kA	25		50	100
	440 V 50/60 Hz	I_{cu}	kA	25		35	35
	525 V 50/60 Hz	I_{cu}	kA	15		20	20
	690 V 50/60 Hz	I_{cu}	kA	–		10	10
I_{cu} to IEC/EN 60947 operating sequence O-t-CO-t-CO	240 V 50/60 Hz	I_{cs}	kA	30		85	100
	400/415 V 50/60 Hz	I_{cs}	kA	25		50	50
	440 V 50/60 Hz	I_{cs}	kA	25		35	35
	525 V 50/60 Hz	I_{cs}	kA	7.5		10	10
	690 V 50/60 Hz	I_{cs}	kA	–		7.5	7.5
Utilization category to IEC/EN 60947-2				A		A	A
Rated short-time withstand current							
t = 0.3 s		I_{cw}	kA	–		–	–
t = 1 s		I_{cw}	kA	–		–	–
Rated making and breaking capacity							
Rated operational current							
AC-1	400/415 V 50/60 Hz	I_e	A	160		160	160
	690 V 50/60 Hz	I_e	A	160		160	160
AC–3	400/415 V 50/60 Hz	I_e	A	160		160	160
	690 V 50/60 Hz	I_e	A	160		160	160
Lifespan, mechanical (of which max. 50 % trip by shunt/undervoltage release)		Operations		20000		20000	20000
Maximum operating frequency			Ops/h	120		120	120
Lifespan, electrical to IEC/EN 60947-4-1 section B							
AC-1	400/415 V 50/60 Hz	Operations		10000		10000	10000
	690 V 50/60 Hz	Operations		7500		7500	7500
AC–3	400/415 V 50/60 Hz	Operations		7500		7500	7500
	690 V 50/60 Hz	Operations		5000		5000	5000
Current heat loss per pole at I_u			W	13		13	13
Overload releases							
Temperature compensation for NZM2 to IEC/EN 60947, residual error in the range -25 °C/+70 °C (reference temperature 40 °C)							
Thermomagnetic			%/K	0.7[5]		0.7[5]	0.7[5]
Electronic				–		–	–
Total opening delay at short-circuit			ms	< 10		< 10	< 10
Technical data, divergent from the products for the IEC market Switching capacity NA switches (UL489, CSA 22.2 No. 5.1)							
	240 V 60 Hz		kA	35		85	–
	480V 60Hz		kA	25[2]		35[2]	–
	600 V 60 Hz		kA	–		–	–

				Rated uninterrupted current: 250 A				Rated uninterrupted current: 630 A			Rated uninterrupted current: 1600 A		
				NZMB2		NZMN2	NZMH2	NZML2	NZMN3	NZMH3	NZML3	NZMN4	NZMH4	NZML4
Circuit-breakers														
Rated impulse withstand voltage U_{imp}														
Main contacts			V	8000		8000	8000	8000	8000	8000	8000	8000	8000	8000
Auxiliary contacts			V	6000		6000	6000	6000	6000	6000	6000	6000	6000	6000
Rated operational voltage		U_e	V AC	690		690	690	690	690	690	690	690	690	690
Overvoltage category/pollution degree				III/3		III/3	III/3	III/3	III/3	III/3	III/3	III/3	III/3	III/3
Rated insulation voltage		U_i	V	1000		1000	1000	1000	1000	1000	1000	1000	1000	1000
For use in IT electrical power networks			V	525		690	690	690	690	690	690	525	525	525
Switching capacity														
Rated short-circuit making capacity														
	240 V 50/60 Hz	I_{cm}	kA	63		187	220	330	187	220	330	105	220	275
	400/415 V 50/60 Hz	I_{cm}	kA	53		105	220	330	105	220	330	105	220	220
	440 V 50/60 Hz	I_{cm}	kA	53		74	143	286	74	143	286	74	143	187
	525 V 50/60 Hz	I_{cm}	kA	30		53	84	105	53	95	143	53	84	143
	690 V 50/60 Hz	I_{cm}	kA	–		40	40	40	40	53	74	40	74	105
Rated short-circuit breaking capacity I_{cn}														
I_{cu} to IEC/EN 60947 operating sequence O-t-CO	240 V 50/60 Hz	I_{cu}	kA	30		85	100	150	85	100	150	50	100	125
	400/415 V 50/60 Hz	I_{cu}	kA	25		50	100	150	50	100	150	50	100	100
	440 V 50/60 Hz	I_{cu}	kA	25		35	65	130	35	65	130	35	65	85
	525 V 50/60 Hz	I_{cu}	kA	15		25	40	50	25	45	65	25	40	65
	690 V 50/60 Hz	I_{cu}	kA	–		20	20	20	20	25	35	20	35	50
I_{cu} to IEC/EN 60947 operating sequence O-t-CO-t-CO	240 V 50/60 Hz	I_{cs}	kA	30		85	100	150	85	100	150	37	50	63
	400/415 V 50/60 Hz	I_{cs}	kA	25		50	100	150	50	100	150	37	50	50
	440 V 50/60 Hz	I_{cs}	kA	25		35	65	130	35	65	130	26	49	43
	525 V 50/60 Hz	I_{cs}	kA	15		25	30	38	13	22	33	19	30	49
	690 V 50/60 Hz	I_{cs}	kA	–		5	5	5	5	6	9	15	26	37
Utilization category to IEC/EN 60947-2				A		A	A	A	A	A	A	B	B	B
Rated short-time withstand current														
t = 0.3 s		I_{cw}	kA	–		1.9	1.9	1.9	3.3	3.3	3.3	19.2	19.2	–
t = 1 s		I_{cw}	kA	–		1.9	1.9	1.9	3.3	3.3	3.3	19.2	19.2	–
Rated making and breaking capacity														
Rated operational current														
AC-1	400/415 V 50/60 Hz	I_e	A	250		250	250	250	630	630	630	1600	1600	1600
	690 V 50/60 Hz	I_e	A	250		250	250	250	630	630	630	1600	1600	1600
AC–3	400/415 V 50/60 Hz	I_e	A	250		250	250	250	630	630	630	1600[3]	1600[3]	1600[3]
	690 V 50/60 Hz	I_e	A	250		250	250	250	630	630	630	1600[3]	1600[3]	1600[3]
Lifespan, mechanical (of which max. 50 % trip by shunt/undervoltage release)		Operations		20000		20000	20000	20000	15000	15000	15000	10000	10000	10000
Maximum operating frequency			Ops/h	120		120	120	120	60	60	60	60	60	60
Lifespan, electrical to IEC/EN 60947-4-1 section B														
AC-1	400/415 V 50/60 Hz	Operations		10000		10000	10000	10000	5000	5000	5000	3000	3000	3000
	690 V 50/60 Hz	Operations		7500		7500	7500	7500	3000	3000	3000	2000	2000	2000
AC–3	400/415 V 50/60 Hz	Operations		6500		6500	6500	6500	2000	2000	2000	2000	2000	2000
	690 V 50/60 Hz	Operations		5000		5000	5000	5000	2000	2000	2000	1000	1000	1000
Current heat loss per pole at I_u			W	19		19	19	19	40	40	40	97	97	97
Overload releases														
Temperature compensation for NZM2 to IEC/EN 60947, residual error in the range -25 °C/+70 °C (reference temperature 40 °C)														
Thermomagnetic			%/K	0		0	0	0	–	–	–	–	–	–
Electronic				0		0	0	0	0	0	0	0	0	0
Total opening delay at short-circuit			ms	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 25 ≦ 415 V; < 35 > 415 V	< 25 ≦ 415 V; < 35 > 415 V	< 25 ≦ 415 V; < 35 > 415 V
Technical data, divergent from the products for the IEC market Switching capacity NA switches (UL489, CSA 22.2 No. 5.1)														
	240 V 60 Hz		kA	35		85	100	150[4]	85	100	150[4]	85	100	125[6]
	480V 60Hz		kA	25		35	65	100[4]	42	65	100[4]	42	65	85
	600 V 60 Hz		kA	18		25	35	50[4]	35	42	50[4]	35	42	50

Notes

[1] For rated operational voltage the following applies: DC voltage values on request
[2] For switching capacity of NA switches with NZM...1-...NA the following applies: 480Y/277 V from 60 A
[3] For rated operational current AC-3 at NZMB2, NZMN2, NZMH2, NZM4 the following applies: 400 V: max. 650 kW; 600 V: max. 600 kW
[4] For switching capacity of NA switches with NZML2 and NZML3 the following applies: current limiting switch to UL489
[5] For overload release temperature compensation NZM2 thermomagnetic the following applies: with NZM1...1-...160: 0.4
[6] For switching capacity of NA switches with NZML4 at 240 V 60 Hz the following applies: please enquire
[7] The current heat loss per pole ratings refer to the maximum current rating of the frame size.

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Current limiting specifications: NZML2... and NZML3...

Circuit-breakers		Voltage	Threshold current			Intermediate current			High interrupting capacity		
Type	max. frame size			Maximum			Maximum			Maximum	
		At 60 Hz	sym. rms	Peak	I^2dt	sym. rms	Peak	I^2dt	sym. rms	Peak	I^2dt
	[A]	[V]	[kA]	[kA]	[kA²s]	[kA]	[kA]	[kA²s]	[kA]	[kA]	[kA²s]
NZML2-	250 A	240	16,25	12,80	0,36	100	20,23	0,40	150	20,00	0,38
A...		480	16,25	13,20	0,50	65	23,63	0,85	100	26,55	0,78
AF...		600	16,25	12,98	0,60	30	19,40	0,67	50	24,40	0,84
NZML2-	250 A	240	16,25	11,40	0,31	100	18,23	0,27	150	20,40	0,32
VE...		480	16,25	14,23	0,48	65	23,63	0,58	100	26,43	0,62
VEF...		600	16,25	14,33	0,48	30	19,60	0,60	50	24,63	0,79
NZML3	600 A	240	39	41,20	3,30	100	31,00	1,01	150	36,80	1,34
		480	39	29,50	1,60	65	36,40	2,34	100	43,10	1,92
		600	30	29,50	2,24	42	33,80	2,04	50	39,15	2,42

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				PN1/N1 160 A max.	PN2/N2 250 A max.	PN3/N3 630 A max.	N4 1600 A max.
Switch-disconnectors							
Rated impulse withstand voltage U_{imp}							
Main contacts			V	6000	8000	8000	8000
Auxiliary contacts			V	6000	6000	6000	6000
Rated operational voltage		U_e	V AC	690	690	690	690
Rated uninterrupted current max.							
IEC/EN 61131-3		I_u	A	160	250	630	1600
Technical data, divergent from the products for the IEC market UL489, CSA 22.2 No. 5.1		I_u	A	125	160	550	1200
Overvoltage category/pollution degree				III/3	III/3	III/3	III/3
Rated insulation voltage		U_e	V AC	690	1000	1000	1000
Switching capacity							
Rated short-circuit making capacity		I_{cm}	kA	2.8	5.5	25	53
Rated short-time withstand current							
	t = 0.3 s	I_{cw}	kA	2	3.5[1]	12	25
	t = 1 s	I_{cw}	kA	2	3.5[1]	12	25
Rated conditional short-circuit current							
with back-up fuse			A gG/gL	125 PN1(N1) - 160: 160	250	630	2 x 800
	400/415 V		kA	100	100	100	100
	690 V		kA	100	100	80	80
With downstream fuse			A gG/gL	125 PN1(N1) - 160: 160	250	630	2 x 800
	400/415 V		kA	100	100	100	100
	690 V		kA	10	100	100	80
Rated making and breaking capacity							
Rated operational current, AC-22/23A							
	415 V	I_e	A	160	250	630	1600
	690 V	I_e	A	160	250	630	1600
Lifespan, mechanical		Operations		20000	20000	15000	10000
Maximum operating frequency			Ops/h	120	120	60	60
Lifespan, electrical to IEC/EN 60947-4-1 section B							
AC-1	400/415 V	Operations		10000	10000	5000	3000
	690 V	Operations		7500	7500	3000	2000
AC-3	400/415 V	Operations		7500	7500	3000	2000
	690 V	Operations		5000	5000[3]	2000	1000
Current heat loss per pole at I_u[2]			W	8	16	40	97

Notes

[1] The rated short-time withstand current with PN2/N2 in conjunction with residual-current releases NZM2-4-XFI... I_{cw} = 1.5 kA
[2] The current heat loss per pole ratings refer to the maximum current rating of the frame size.
[3] 690 V: max. 160 kW

			NZM1, PN1, N1, NS1		NZM2, PN2, N2, NS2 250 A			NZM3, PN3, N3, NS3 630 A		NZM4, N4, NS4 1600 A	
			125 A	160 A	without	with XSV TM	with XSV E	without	with XAV	without	with XAV
Permissible loading at different ambient temperatures (derating)											
open	20°C	%	100	100	100	100	100	100	96	100	100
	30°C	%	100	100	100	97	100	100	92	100	98
	40°C	%	100	100	100	92	100	100	87	100	93
	50°C	%	100	95	100	87	94	100	83	100	89
	60°C	%	86	90	90	81	88	90	78	87	85
	65°C	%	83	85	85	78	84	85	75	85	83
	70°C	%	79	80	80	75	81	80	73	82	80

Notes

XSV = plug-in unit
XAV = withdrawable unit
TM = thermomagnetic
E = electronic

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				NS1-...-NA max. 125A	NS2-...-NA max. 250A
Molded Case Switch					
Rated impulse withstand voltage			U_{imp}		
Main contacts				6000	8000
Auxiliary contacts				6000	6000
Rated operational voltage			U_e	690	690
Rated uninterrupted current max.					
IEC/EN 60947-2 Annex L			I_u	125	250
UL489/CSA 22.2 No. 5.1			I_u	125	250
Overvoltage category/pollution degree				III/3	III/3
Rated insulation voltage			U_i	690	1000
Switching capacity to UL 489, CSA 22.2 No. 5.1					
		240 V		85	150
		480 V		35	100
		600 V		–	50
Switching capacity, divergent from the products for the NA market					
Rated short-circuit making capacity		240 V	I_{cm}	187	330
		400/415 V	I_{cm}	105	330
		440 V	I_{cm}	74	286
		525 V	I_{cm}	53	105
		690 V	I_{cm}	17	53
Rated short-circuit breaking capacity $I_{cc} = I_{cu}$ to IEC/EN 60947-2 Annex L	I_{cu} to IEC/EN 60947 test cycle O-t-CO	240 V	I_{cu}	85	150
		400/415 V	I_{cu}	50	150
		440 V	I_{cu}	35	130
		525 V	I_{cu}	20	50
		690 V	I_{cu}	10	20
	I_{cs} to IEC/EN 60947 test cycle O-t-CO-t-CO	240 V	I_{cs}	85	150
		400/415 V	I_{cs}	50	150
		440 V	I_{cs}	35	130
		525 V	I_{cs}	10	37.5
		690 V	I_{cs}	7.5	5
Lifespan, mechanical			Operations	20000	20000
Maximum operating frequency				120	120
Lifespan, electrical	AC-1	400/415 V	Operations	10000	10000
		690 V	Operations	7500	7500
	AC–-3	400/415 V	Operations	7500	6500
		690 V	Operations	5000	5000
Current heat loss per pole at I_u [1]				13	19
Total opening delay on short-circuit				< 10	< 10

Notes [1] Details relate to the maximum nominal current of the frame size

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				NZMH2, N2	NZMN3, N3	NZMH4, N4
General						
Utilization category				A	A	A/B
Maximum operating frequency			Ops/h	120	60	60
Lifespan						
mechanical (of which max. 50 % trip by shunt/undervoltage release)				20000	15000	10000
Electrical			Operations	3000	1000	500
Rated operational voltage		U_e	V AC	1000	1000	1000
Circuit-breakers						
Rated uninterrupted current		I_u	A	max. 250	max. 630	max. 1600
Rated short-circuit making capacity						
	1000 V 50/60 Hz	I_{cm}	kA	17	17	40
Rated short-circuit breaking capacity I_{cn}						
I_{cu} to IEC/EN 60947 operating sequence O-t-CO	1000 V 50/60 Hz	I_{cu}	kA	10	10	20
I_{cu} to IEC/EN 60947 operating sequence O-t-CO-t-CO	1000 V 50/60 Hz	I_{cs}	kA	3	10	15
Rated making and breaking capacity						
Rated operational current						
AC-1	1000 V 50/60 Hz	I_e		250	630	1600
Switch-disconnectors						
Rated uninterrupted current		I_u	A	max. 250	max. 630	max. 1600
Rated short-time withstand current		I_{cw}	kA	3.5	12	25
Rated making and breaking capacity						
Rated operational current						
AC-22/23A	1000 V 50/60 Hz	I_e		250	630	1600

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NZM up to 250A with thermomagnetic release (3 and 4 pole)

	Fixed mounted											
	NZM1-								NS1-		N1-, PN1-	
	A...(-NA)		M...		AF...-NA		S...(-CNA)		...-NA		...(-NA)	
I_n [A]	P [W]	R [µOhm]	P [W]	R [µOhm]	P [W]	R [µOhm]	P [W]	R [µOhm]	P [W]	R [µOhm]	P [W]	R [µOhm]
1.2	–	–	–	–	–	–	1.2	413000	–	–	–	–
1.6	–	–	–	–	–	–	–	–	–	–	–	–
2	–	–	–	–	–	–	0.5	66000	–	–	–	–
2.4	–	–	–	–	–	–	–	–	–	–	–	–
3	–	–	–	–	–	–	1.1	66000	–	–	–	–
5	–	–	–	–	–	–	0.4	9180	–	–	–	–
8	–	–	–	–	–	–	1	9180	–	–	–	–
12	–	–	–	–	–	–	0.5	1670	–	–	–	–
15	–	–	–	–	5.5	8180	–	–	–	–	–	–
18	–	–	–	–	–	–	1.3	1670	–	–	–	–
20	9.8	8180	k.A.	k.A.	9.8	8180	–	–	–	–	–	–
25	8.8	4680	k.A.	k.A.	8.8	4680	–	–	–	–	–	–
26	–	–	–	–	–	–	2	1050	–	–	–	–
30	–	–	–	–	8.2	3030	–	–	–	–	–	–
32	9.1	3030	k.A.	k.A.	–	–	–	–	–	–	–	–
33	–	–	–	–	–	–	3.2	1050	–	–	–	–
35	–	–	–	–	8.2	2220	–	–	–	–	–	–
40	11	2220	13.5	2810	11	2220	2.7	562	–	–	–	–
45	–	–	–	–	10.7	1760	–	–	–	–	–	–
50	13.5	1760	15	1880	13.5	1760	4.2	562	–	–	–	–
60	–	–	–	–	12.9	1190	–	–	–	–	–	–
63	14	1190	16.7	1250	–	–	6.7	562	6.7	562	6	380
70	–	–	–	–	12.5	850	–	–	–	–	–	–
80	15.5	850	21.1	1085	15.5	850	10.8	562	–	–	–	–
90	–	–	–	–	17.7	730	–	–	–	–	–	–
100	24	730	25	795	24	730	16.9	562	16.9	562	15	380
110	–	–	–	–	20.7	570	–	–	–	–	–	–
125	38	570	–	–	38	570	–	–	26.3	562	24	380
150	–	–	–	–	–	–	–	–	–	–	–	–
160	50	460	–	–	–	–	–	–	–	–	38	380
175	–	–	–	–	–	–	–	–	–	–	–	–
200	–	–	–	–	–	–	–	–	–	–	–	–
225	–	–	–	–	–	–	–	–	–	–	–	–
250	–	–	–	–	–	–	–	–	–	–	–	–

Note: The values stated in the table apply for fixed mounted 3 and 4 pole devices which are loaded uniformly.
On 4 pole devices the current on the N conductor is equal to zero.
The entire resistive load is for the measured three-pole or four-pole value.
The total heat dissipation is the measured value for I_n at 50/60 Hz for a 3-pole or 4-pole switch.
The heat dissipation can be calculated using the fromula: $P = 3 \times R \times I^2$

NZM up to 1600 A with electronic release (3 and 4 pole)

Fixed mounted		Additional	Fixed mounted		Additional	Fixed mounted		Additional
NZM2-	N2, PN2	Plug-in units	NZM3-	N3-, PN3-	Withdrawable	NZM4-	N4-	Withdrawable
R [µOhm]	R [µOhm]	R [µOhm]	R [µOhm]	R [µOhm]	R [µOhm]	R [µOhm]	R [µOhm]	R [µOhm]
275	256	100	100	90	70	37	37	10

Note: The values stated in the table apply for 3 and 4 pole devices which are loaded uniformly.
On 4 pole devices the current on the N conductor is equal to zero.
The total resistive load is the measured value for a 3 pole or 4 pole switch
(independent of I_n and the type of release).
The total resistive load for a switch in fixed or withdrawable design results from:
the resistive value for fixed mounting + resistive value for plug-in or withdrawable design.
The heat dissipation can be calculated using the fromula: $P = 3 \times R \times I^2$

	Fixed mounted											
	NZM2-								NS2-		N2-, PN2-	
	A...(-NA)		M...		AF...-NA		S...(-CNA)		...-NA		...(-NA)	
	P [W]	R [µOhm]	P [W]	R [µOhm]	P [W]	R [µOhm]	P [W]	R [µOhm]	P [W]	R [µOhm]	P [W]	R [µOhm]
	–	–	–	–	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	6.2	750000	–	–	–	–
	–	–	–	–	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	8.4	450000	–	–	–	–
	–	–	–	–	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	0.2	4600	–	–	–	–
	–	–	–	–	–	–	0.5	4600	–	–	–	–
	–	–	–	–	–	–	0.4	1200	–	–	–	–
	–	–	–	–	3	4250	–	–	–	–	–	–
	–	–	–	–	–	–	1	1200	–	–	–	–
	5.1	4250	5.1	4250	5.1	4250	–	–	–	–	–	–
	8	4250	8	4250	6	3140	–	–	–	–	–	–
	–	–	–	–	–	–	0.5	780	–	–	–	–
	–	–	–	–	9	3140	–	–	–	–	–	–
	10	3140	10	3140	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	0.9	780	–	–	–	–
	–	–	–	–	11	2800	–	–	–	–	–	–
	13	2800	13	2800	13	2800	1.5	317	–	–	–	–
	–	–	–	–	15	2270	–	–	–	–	–	–
	18	2270	18	2270	18	2270	2.5	317	–	–	–	–
	–	–	–	–	19	1700	–	–	–	–	–	–
	20	1700	20	1700	–	–	4	317	–	–	–	–
	–	–	–	–	17	1070	–	–	–	–	–	–
	22	1070	22	1070	22	1070	6	317	–	–	–	–
	–	–	–	–	23	855	–	–	–	–	–	–
	28	855	28	855	28	855	10	317	–	–	–	–
	–	–	–	–	22	589	–	–	–	–	–	–
	29	589	29	589	29	589	15	317	–	–	–	–
	–	–	–	–	35	427	–	–	–	–	–	–
	40	427	40	427	–	–	25	317	25	317	19.7	256
	–	–	–	–	37	332	–	–	–	–	–	–
	48	332	48	332	48	332	40	317	40	317	30.7	256
	–	–	–	–	46	310	–	–	–	–	–	–
	57	310	–	–	57	310	59.4	317	59.4	317	48	256

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Circuit-breakers, switch-disconnectors up to 1600 A

Moeller SK1230-1157GB-INT

					NZM1, PN1, N1, NS1 160 A	I_n[1] A	NZM2, PN2, N2, NS2 250 A	I_n[1] A	NZM3, PN3, N3, NS3 630 A	I_n[1] A	NZM4, N4, NS4 1600 A	I_n[1] A		NZM...1...NA, N1...NA, NS1...NA	NZM...2...NA, N2...NA, NS2...NA	NZM...3...NA, N3...NA, NS3...NA	NZM...4...NA, N4...NA, NS4...NA
Terminal capacities																	
Standard equipment					Box terminal	–	Screw terminal	–	Screw terminal	–	Screw terminal	–	–	Box terminal	Screw terminal	Screw terminal	Screw terminal
Accessories					Screw connection Tunnel terminal Connection on rear		Box terminal Tunnel terminal Connection on rear		Box terminal Tunnel terminal Connection on rear		Tunnel terminal Connection on rear Strip terminal		–	Screw connection Tunnel terminal Connection on rear	Box terminal Tunnel terminal Connection on rear	Box terminal Tunnel terminal Connection on rear	Tunnel terminal Connection on rear Strip terminal
Cu conductors, Cu cable																	
Box terminal	Solid			mm²	1 × (10 – 16) 2 × (6 – 16)	160	1 × (4 – 16) 2 × (4 – 16)	250	2 × 16	500	–	–	AWG	1 × (12 – 6)	1 × (12 – 6)	–	–
	Stranded			mm²	1 × (25 – 70)[3] 2 × 25		1 × (25 – 185) 2 × (25 – 70)	250	1 × (35 – 240) 2 × (25 – 120)		–	–	AWG/kcmil	1 × (4 – 2/0)	1 × (4 – 350)	1 × (2 – 500)	–
Tunnel terminal	Solid Stranded			mm²	1 × 16	160	1 × (16 – 185)	250	–	–	–	–	AWG	1 × 6	1 × 6	1 × 6	–
		Single hole		mm²	1 × (25 – 95)		1 × (25 – 185)		1 × (25 – 185)	350	–	–	AWG/kcmil	1 × (4 – 3/0)	1 × (4 – 350)	1 × (4 – 350)	–
		Double hole fitting		mm²	–	–	–	–	1 × (50 – 240) 2 × (50 – 240)	630	–	–	AWG/kcmil	–	–	1 × (0 – 500) 2 × (0 – 500)	–
		4-hole		mm²	–	–	–	–	–	–	4 × (50 – 240)	1400	AWG/kcmil	–	–	–	4 × (0 – 500)
Bolt terminal and rear-side connection																	
Direct on the switch	Solid			mm²	1 × (10 – 16) 2 × (6 – 16)	160	1 × (4 – 16) 2 × (4 – 16)	250	1 × 16 2 × 16	630 2 × 185	–	–	AWG	1 × (12 – 6) 2 × (9 – 6)	1 × (12 – 6)	–	–
	Stranded			mm²	1 × (25 – 70)[3] 2 × 25		1 × (25 – 185) 2 × (25 – 70)		1 × (25 – 240) 2 × (25 – 240)		1 × (120 – 185) 4 × (50 – 185)	1250	AWG/kcmil	1 × (4 – 2/0)	1 × (4 – 3/0)	1 × (4 – 350)	1 × (250 – 350) 4 × (0 – 350)
Module plate	Single hole	min.		mm²	–	–	–	–	–	–	1 × (120 – 300)	1000	kcmil	–	–	–	1 × (250 – 600)
		max.		mm²	–	–	–	–	–	–	2 × (95 – 300)		AWG/kcmil	–	–	–	2 × (3/0 – 600)
Module plate	Double hole	min.		mm²	–	–	–	–	–	–	2 × (95 – 185)	1400	AWG/kcmil	–	–	–	2 × (3/0 – 350)
		max.		mm²	–	–	–	–	–	–	4 × (35 – 185)		AWG/kcmil	–	–	–	4 × (2 – 350)
Connection width extension				mm²					2 × 300	630 2 × 185	4 × 300 6 × (95 – 240)	1600 4 × 240	AWG/kcmil			2 × 500	4 × 600 6 × (3/0 – 500)
Al conductors, Al cable																	
Tunnel terminal	Solid Stranded			mm²	1 × 16	160	1 × 16	250	1 × 16	350	–	–	AWG	–	–	–	–
		Single hole		mm²	1 × (25 – 95)		1 × (25 – 185)		1 × (25 – 185)[2]		–	–	AWG/kcmil	–	–	–	–
		Double hole fitting		mm²	–	–	–	–	1 × (50 – 240) 2 × (50 – 240)	630	–	–	AWG/kcmil	–	–	–	–
		4-hole		mm²	–	–	–	–	–	–	4 × (50 – 240)	1400	AWG/kcmil	–	–	–	–
Bolt terminal and rear-side connection																	
Direct on the switch	Solid			mm²	1 × (10 – 16) 2 × (10 – 16)	160	1 × (10 – 16) 2 × (10 – 16)	250	1 × 16 2 × (10 – 16)	400	–	–	AWG	–	–	–	–
	Stranded			mm²	1 × (25 – 35) 2 × (25 – 35)		1 × (25 – 50) 2 × (25 – 50)		1 × (25 – 120) 2 × (25 – 120)		–	–	AWG/kcmil	–	–	–	–
Module plate	Single hole	min.		mm²	–	–	–	–	–	–	1 × (185 – 240)	on request	kcmil	–	–	–	–
	Single hole	max.		mm²	–	–	–	–	–	–	2 × (70 – 185)	on request	AWG/kcmil	–	–	–	–
Module plate	Double hole			mm²	–	–	–	–	–	–	4 × 50	–	AWG	–	–	–	–
Connection width extension				mm²							2 × 240 6 × (70 – 240)	on request	AWG/kcmil				–
Cu strip (number of segments × width × segment thickness)																	
Box terminal		min.		mm²	2 × 9 × 0.8	160	2 × 9 × 0.8	250	6 × 16 × 0.8	630	–	–	mm	2 × 9 × 0.8	2 × 9 × 0.8	6 × 16 × 0.8	–
		max.		mm²	9 × 9 × 0.8		10 × 16 × 0.8		10 × 24 × 1.0 + 5 × 24 × 1.0 (2 ×) 8 × 24 × 1.0		–	–	mm	9 × 9 × 0.8	10 × 16 × 0.8	10 × 24 × 1.0 + 5 × 24 × 1.0 (2 ×) 8 × 24 × 1.0	–
Flat conductor terminal		min.		mm	–	–	–	–	–	–	6 × 16 × 0.8	1100	mm	–	–	–	6 × 16 × 0.8
		max.		mm	–	–	–	–	–	–	(2 ×) 10 × 32 × 1.0		mm	–	–	–	(2 ×) 10 × 32 × 1.0
Module plate	Single hole			mm²	–	–	–	–	–	–	(2 ×) 10 × 50 × 1.0	1250 (2 ×) 10 × 40 × 1.0	mm	–	–	–	(2 ×) 10 × 50 × 1.0
Bolt terminal and rear-side connection																	
Flat copper strip, with holes		min.		mm	–	–	2 × 16 × 0.8	250	6 × 16 × 0.8	630	(2 ×) 10 × 50 × 1.0	1600	mm	–	2 × 16 × 0.8	6 × 16 × 0.8	(2 ×) 10 × 50 × 1.0
Flat copper strip, with holes		max.		mm	–	–	10 × 16 × 0.8		10 × 32 × 1.0 + 5 × 32 × 1.0		(2 ×) 10 × 50 × 1.0		mm	–	10 × 16 × 0.8	10 × 32 × 1.0 + 5 × 32 × 1.0	(2 ×) 10 × 50 × 1.0
Connection width extension				mm²	–	–	–	–	(2 ×) 10 × 50 × 1.0		(2 ×) 10 × 80 × 1.0	1600 2 × (10 × 50 × 1.0)	mm	–	–	(2 ×) 10 × 50 × 1.0	(2 ×) 10 × 80 × 1.0
Copper busbar (width × thickness)																	
Bolt terminal and rear-side connection																	
Screw connection					M6	–	M8	–	M10	–	M10	–	–	M6	M8	M10	M10
Direct on the switch		min.		mm²	12 × 5	160	16 × 5	250	20 × 5	630	25 × 5	1600	mm	12 × 5	16 × 5	20 × 5	25 × 5
		max.		mm²	16 × 5	–	20 × 5	–	30 × 10 +30 × 5		2 × (50 × 10)		mm	16 × 5	20 × 5	30 × 10 +30 × 5	2 × (50 × 10)
Module plate	Single hole	min.		mm²	–	–	–	–	–	–	25 × 5	1250 2 × (40 × 10)	mm	–	–	–	25 × 5
		max.		mm²	–	–	–	–	–	–	2 × (50 × 10)		mm	–	–	–	2 × (50 × 10)
Module plate	Double hole			mm²	–	–	–	–	–	–	2 × (50 × 10)	1500	mm	–	–	–	2 × (50 × 10)
Connection width extension		min.		mm²	–	–	–	–	–	630	60 × 10	1600 2 × (50 × 10)	mm	–	–	–	60 × 10
		max.		mm²	–	–	–	–	2 × (10 × 50)	10 × 40	2 × (80 × 10)		mm	–	–	2 × (10 × 50)	2 × (80 × 10)

Notes

[1] The rated currents I_n have been determined conform to IEC/EN 60947 (switchgear standard) and generally relate to the max. defined cross-sections and are intended for the purpose of orientation. The engineering standards which apply in each case must be observed.

[2] depending on the cable manufacturer up to 240 mm² can be connected.

[3] depending on the cable manufacturer up to 95 mm² can be connected.

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		at AC = 50/60 Hz		M22-K...	XHIV	XHI
Auxiliary contacts						
Rated operational voltage						
AC		U_e	V AC	500	500	500
DC		U_e	V DC	220	220	220
Conventional thermal current		$I_{th} = I_e$	A	4	4	4
Rated operational current						
AC–15	115 V	I_e	A	4	4	4
	230 V	I_e	A	4	4	4
	400 V	I_e	A	2	2	2
	500 V	I_e	A	1	1	1
DC-13	24 V	I_e	A	3	3	3
	42 V	I_e	A	1.7	1.5	–
	60 V	I_e	A	1.2	0.8	1.2
	110 V	I_e	A	0.8	0.5	0.5
	220 V	I_e	A	0.3	0.2	0.2
Short-circuit protection						
max. fuse			A gG/gL	10	10	10
Max. miniature circuit-breaker			A	PKZM0-10/FAZ-B6	FAZ-B6	FAZ-B6
Early-make time compared to the main contacts during switch on and off (switching times with manual operation)			ms	–	NZM1, PN1, N1: approx. 20 NZM2, PN2, N2: approx. 20 NZM3, PN3, N3: approx. 20 NZM4, N4: ca. 90 With NZM4/N4 the HIV does **not** feature early break.	–
Terminal capacities						
Solid or flexible conductor with ferrule			mm^2	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)
			AWG	1 × (18 – 14) 2 × (18 – 14)	1 × (18 – 14) 2 × (18 – 14)	1 × (18 – 14) 2 × (18 – 14)
UL/CSA						
Rated operational current		I_e	A	10 A – 600 V AC 1 A – 250 V DC	2.5 A – 240 V AC 1 A – 250 V DC	2.5 A – 240 V AC 1 A – 250 V DC
Heavy Pilot Duty				A600/P300 above 300 V AC same polarity	C300/R300	C300/R300

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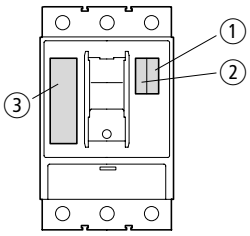
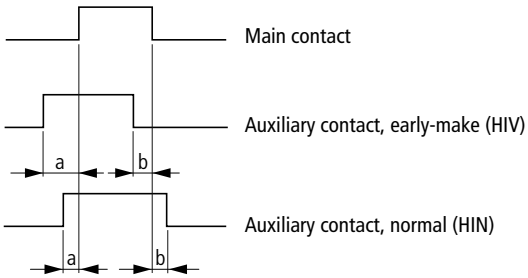
Maximum component installation and position of the internal accessories



	③ -XHIV or -XA or -XU	② HIA	① HIN
NZM1	1	1	1
NZM2	1	1	2
NZM3	1	1	3
NZM4	1	2	3

Time differences ON-OFF



	Time difference a (ms)						Time difference b (ms)					
	Manual operation			Motor operators			Manual operation			Motor operators		
	HIV	HIN		HIV	HIN		HIV	HIN		HIV	HIN	
		K10	K01		K10	K01		K10	K01		K10	K01
NZM1	20[2)]	0	2,5	–	–	–	20[2)]	0	2.5	–	–	–
NZM2	20[2)]	3,5	6,5	Not permissible	2,5	4,5	20[2)]	3	4.5	Not permissible	3	4
NZM3	20[2)]	4	8	Not permissible	2	4	20[2)]	3.5	8	Not permissible	3	6,5
NZM4	90[2)]	7	11	Not permissible	on request	on request	0[1)2)]	12	15	Not permissible	on request	on request

Notes
[1)] With NZM4/N4 the HIV does **not** feature early break.
[2)] Minimum value, as it is dependent on the switching speed

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			NZM1(2/3)-XU...	NZM4-XU...
Undervoltage release				
Rated control voltage				
Alternating voltage at 50/60 Hz	U_s	V AC	24 – 600	24 – 600
DC	U_s	V DC	12 – 250	12 – 250
Operating range				
Drop-out voltage		× U_s	0.35 – 0.7	0.35 – 0.7
Pick-up voltage		× U_s	0.85 – 1.1	0.85 – 1.1
Power consumption				
AC				
Sealing AC		VA	1.5	3.6
DC				
Sealing DC		W	0.8	2.5
Max. opening delay (response time until the main circuits open)		ms	19	23
Minimum command time		ms	10 – 15	10 – 15
Terminal capacities				
Solid or flexible conductor with ferrule		mm²	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)
		AWG	1 × (18 – 14) 2 × (18 – 14)	1 × (18 – 14) 2 × (18 – 14)

			UVU-NZM
Undervoltage releases, off-delayed			
Rated operational voltage			
Alternating voltage at 50/60 Hz	U_e	V AC	24, 220 – 550
DC	U_e	V DC	24
Inrush current (peak value)	I_e	mA	< 500
Power consumption		VA	50
Delay time	t_{sd}	ms	70 – 4000
With additional external capacitor, 90.000 µF ≧ 35 V		s	To 16
With additional external capacitor, 30.000 µF ≧ 35 V		s	To 8
Terminal capacities			
Solid or flexible conductor with ferrule		mm²	1 × (0.5 – 2.5) 2 × (0.5 – 1.5)

			NZM1(2/3)-XA...	NZM4-XA...	NZM2/3-XA...-MNS	NZM4-XA...-MNS
Shunt release						
Rated control voltage						
AC	U_s	V AC	12 – 600	12 – 600	230	230
DC	U_s	V DC	12 – 600	12 – 600	–	–
Frequency range		Hz	0 – 400	0 – 400	50/60	50/60
Operating range						
AC		× U_s	0.7 – 1.1	0.7 – 1.1	0.1 – 1.1	0.1 – 1.1
DC		× U_s	0.7 – 1.1	0.7 – 1.1	–	–
Power consumption						
Sealing AC/DC		VA/W	2.5	2.5	–	–
Maximum current consumption at 110% U_s (230 V 50 Hz)		A	–	–	0.5	1
Maximum opening delay (response time until opening of the main contacts)		ms	20	22	20	22
Maximum duty factor		ms	∞	∞	1000	1000
Minimum command time		ms	10 – 15	10 – 15	10 – 15	10 – 15
Terminal capacities						
Solid or flexible conductor with ferrule		mm²	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)
		AWG	1 × (18 – 14) 2 × (18 – 14)	1 × (18 – 14) 2 × (18 – 14)	1 × (18 – 14) 2 × (18 – 14)	1 × (18 – 14) 2 × (18 – 14)

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				NZM-XCM
Capacitor unit for shunt release				
Rated operational voltage		U_e	V AC	230
Rated operational current		I_e	mA	< 10
Inrush current (peak value)		I_e	A	3
Terminal capacities				
Solid or flexible conductor with ferrule			mm^2	1 × (0.5 – 2.5) 2 × (0.5 – 1.5)
			AWG	1 × (20 – 14) 2 × (20 – 16)

				NZM2-XR...	NZM3-XR...	NZM4-XR...
Remote operator						
Rated control voltage						
AC		U_s	V AC	48 – 440	48 – 440	48 – 440
DC		U_s	V DC	24 – 250	24 – 250	24 – 250
Operating range						
AC		U_s		0.85 – 1.1	0.85 – 1.1	0.85 – 1.1
DC		U_s		0.85 – 1.1	0.85 – 1.1	0.85 – 1.1
Motor rating						
AC	48 V – 60 V AC		VA	350	350	350
	110 V – 130 V AC		VA	350	350	350
	208 V – 240 V AC		VA	350	350	350
	380 V – 440 V AC		VA	350	350	350
DC	24 V – 30 V DC		W	250	250	250
	48 V – 60 V DC		W	250	250	250
	110 V – 130 V DC		W	250	250	250
	220 V – 250 V DC		W	250	250	250
Total make time			ms	60	80	100
Total opening delay			ms	300	1000	3000
Minimum signal duration						
with switch on			ms	30	30	30
with switch off			ms	150	250	500
Lifespan, mechanical		Operations		20000	15000	10000
Maximum operating frequency			Ops./h	120	60	20
Terminal capacities						
Solid or flexible conductor with ferrule			mm^2	0.75 – 2.5	0.75 – 2.5	0.75 – 2.5
			AWG	18 – 14	18 – 14	18 – 14

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			DMI
General			
Dimensions (W × H × D)		mm	107.5 × 90 × 53
Modular spacing (space units)			6 space units wide
Weight		kg	0.3
Mounting			Top-hat rail IEC/EN 60715, 35 mm
Climatic environmental conditions			
Operating ambient temperature		°C	0 to +55
Mounting position			horizontal, vertical
Condensation			Prevent condensation by means of suitable measures
LCD display (clearly legible)		°C	0 to +55
Storage/Transport		°C	-40 to +70
Relative humidity, non-condensing (IEC/EN 60068-2-30)		%	5 – 95
Air pressure (operation)		hPa	795 – 1080
Corrosion resistance			
IEC/EN 60068-2-42	4 days SO_2	cm^3/m^3	10
IEC/EN 60068-2-43	4 days H_2S	cm^3/m^3	1
Ambient conditions, mechanical			
Pollution degree			2
Degree of protection (IEC/EN 60529)			IP20
Vibrations (IEC/EN 60068-2-6)			
Constant amplitude 0.15 mm		Hz	10 – 57
Constant acceleration 2 g		Hz	57 – 150
Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms		Impacts	18
Drop to IEC/EN 60068-2-31	Drop height	mm	50
Free fall, packaged (IEC/EN 60068-2-32)		m	1
Power supply			
Rated operational voltage	U_e	V	24
Admissible range		V DC	20.4 – 28.8
Residual ripple		%	≦ 5
Input current at 24 V DC		mA	210
Voltage dips (IEC/EN 61131-2)		ms	10
Heat dissipation at 24 V DC		W	5

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Moeller SK1230-1157GB-INT

			EASY221-CO	EASY222-DN	NZM-XDMI-DPV1
General					
Standards			EN 55011, EN 55022, EN 61000-4, IEC 60068-2-6, IEC 60068-2-27		
Dimensions (W × H × D)		mm	35.5 × 90 × 58 (2 TE)	35.5 × 90 × 58 (2 TE)	35.5 × 90 × 58 (2 TE)
Weight		kg	0.15	0.15	0.15
Mounting			Top-hat rail IEC/EN 60715, 35 mm or screw fixing using fixing brackets ZB4-101-GF1 (accessories)		
Terminal capacity					
Solid		mm^2	0.2 / 4 (AWG 22 – 12)	0.2 / 4 (AWG 22 – 12)	0.2 / 4 (AWG 22 – 12)
Flexible with ferrule		mm^2	0.2 / 2.5 (AWG 22 – 12)	0.2 / 2.5 (AWG 22 – 12)	0.2 / 2.5 (AWG 22 – 12)
Flat-bladed screwdriver		mm	3.5 × 0.8	3.5 × 0.8	3.5 × 0.8
Max. tightening torque		Nm	0.6	0.6	0.6
Climatic environmental conditions					
Operating ambient temperature		°C	-25 to 55, cold as per IEC 60068-2-1, heat as per IEC 60068-2-2		
Condensation			Prevent condensation by means of suitable measures		
Storage		°C	40 – 70	40 – 70	40 – 70
Relative humidity, non-condensing (IEC/EN 60068-2-30)		%	5 – 95	5 – 95	5 – 95
Atmospheric pressure (operation)		hPa	795 – 1080	795 – 1080	795 – 1080
Corrosion resistance					
IEC/EN 60947-2-42	4 days SO_2	cm^3/m^3	10	10	10
IEC/EN 60068-2-43	4 days H_2S	cm^3/m^3	1	1	1
Mechanical environmental conditions					
Pollution degree			2	2	2
Degree of protection (IEC/EN 60529)			IP20	IP20	IP20
Vibrations (IEC/EN 60068-2-6)					
Constant amplitude 0.15 mm		Hz	10 – 57	10 – 57	10 – 57
Constant acceleration, 2 g		Hz	57 – 150	57 – 150	57 – 150
Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms		Impacts	18	18	18
Drop to IEC/EN 60068-2-31	Drop height	mm	50	50	50
Free fall, packaged (IEC/EN 60068-2-32)		m	1	1	1
Mounting position			Horizontal / vertical	Horizontal / vertical	Horizontal / vertical
Electromagnetic compatibility (EMC)					
Electrostatic discharge (IEC/EN 61000-4-2, Level 3, ESD)					
Air discharge		kV	8	8	8
Contact discharge		kV	6	6	6
electromagnetic fields (IEC/EN 61000-4-3, RFI)		V/m	10	10	10
Radio interference suppression (EN 55011)			EN 55011 class B, EN 55022 class B		EN 55011 class A, EN 55022 class A
Burst impulses (IEC/EN 61000-4-4, level 3)					
Power lines		kV	2	2	2
Signal cables		kV	2	2	2
		kV	0.5 (power line symmetry)		
Immunity to line-conducted interference (IEC/EN 61000-4-6)		V	10	10	10

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			EASY221-CO	EASY222-DN	NZM-XDMI-DPV1
Dielectric strength					
Rating of the air and creepage distance			EN 50178, UL 508, CSA C22.2, No. 142		
Dielectric strength			EN 50178		
Power supply					
Rated operational voltage	U_e	V	24 (-15/+20 %)	24 (-15/+20 %)	24 (-15/+20 %)
Admissible range		V DC	20.4 – 28.8	20.4 – 28.8	20.4 – 28.8
Residual ripple		%	< 5	< 5	< 5
At 24 V DC		mA	Averaged 200	Averaged 200	Averaged 200
Voltage dips (IEC/EN 61131-2)		ms	10	10	10
Heat dissipation at 24 V DC		W	4.8	4.8	4.8
Protection against polarity reversal					
Power supply			Yes	Yes	Yes
LED displays					
Power supply			LED RUN (RUN): green	LED module status (MS): green	LED power (POW): green
LED display			LED ERROR (ERR): red	LED network status (NS): red/green	LED-PROFIBUS-DP (BUS): red
Network					
Connection types			RJ45	5-pole, twin-level terminal block	–
Potential isolation			Bus to power supply (simple, bus and power supply to EASY base unit (safe isolation)	Bus to power supply (simple, bus and power supply to EASY base unit (safe isolation)	–
Function			CANopen slave	DeviceNet slave	–
Interface			CAN	CAN	–
Bus protocol			CANopen	DeviceNet	–
Baud rates			Automatic detection up to 1 MBit / s	Automatic detection up to 500 kBit / s	–
Bus termination resistors			Separate, external bus connection necessary (120 Ω)	Separate, external bus connection necessary (120 Ω)	–
Bus addresses			1 – 127 via EASY base unit with display or EASY-SOFT addressable	0 – 63 via EASY base unit with display or EASY-SOFT addressable	–
Services					–
Cyclic			All data R1 – R16, S1 – S8	All data R1 – R16, S1 – S8	–
Acyclic			Read / write, time, day, summer- / winter time, all parameters of the EASY function	Read / write, time, day, summer- / winter time, all parameters of the EASY function	–
PROFIBUS-DP					
Connection types			–	–	Sub-D 9 pole, socket
Potential isolation			–	–	Bus to power supply (simple), bus and power supply to DMI base unit (safe isolation)
Function			–	–	PROFIBUS-DP slave
Interface			–	–	RS 485
Bus protocol			–	–	PROFIBUS-DP
Baud rates			–	–	Automatic detection up to 12 MBit / s
Bus termination resistors			–	–	Switch-in via connector
Bus addresses			–	–	1 – 126 via DMI

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			PFR-003	PFR-03	PFR-5
Electrical					
Standards			IEC/EN 60947-2, IEC 755, IEC 1008, IEC 1009		
Sensitivity			Pulse current sensitive, type A		
Rated control voltage	U_s	V AC	230 ±20 % (50/60 Hz)		
Motor rating	P_e	W	3	3	3
Rated fault currents	$I_{\Delta n}$	mA	0.03	0.3	0.03, 0.1, 0.3, 0.5, 1, 3, 5
Delay time	t_v	s	0.02 (non-delayed)	0.02 (non-delayed)	0.02, 0.1, 0.3, 0.5, 1, 3, 5
Relay contacts			1 integrated changeover	1 integrated changeover	1 integrated changeover
Rated voltage of the relay contact		V AC/DC	250/100	250/100	250/100
Rated current of the relay contact		A	6	6	6
Fault current warning		Hz	–	–	0.5 = 25% – 50% $I_{\Delta n}$ 1 = 50% – 75% $I_{\Delta n}$ 2 = 75% – 100% $I_{\Delta n}$
Mechanical					
Standard front dimension		mm	45	45	45
Device height		mm	85	85	85
Device width		mm	45	45	45
Mounting			Snap fixing, top-hat rail DIN 46277, IEC/EN 60715		
Terminals top and bottom			Box terminals		
Terminal protection			Finger/back-of-hand proof to BGV A2, VDE 106 part 100		
Terminal capacities		mm^2	2 × 0.75 – 2.5 solid, 2 × 0.75 – 1.5 flexible/with ferrules		
Sealability			–	–	Setting buttons

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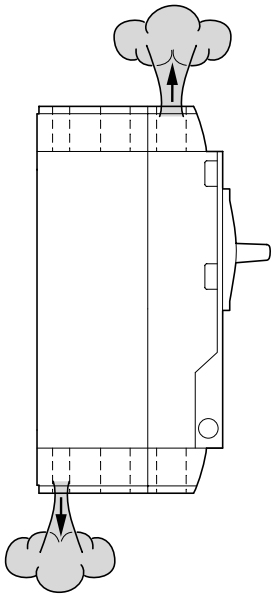
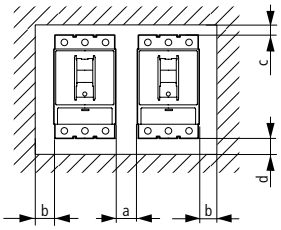
Direction of blow-out



	Top Front	Bottom Rear
NZM1	X	–
NZM2	X	X
NZM3	X	X
NZM4	X	–

Minimum clearance



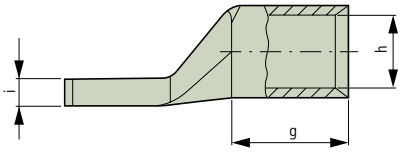
Between two switches mounted side-by-side
Minimum clearance a in mm

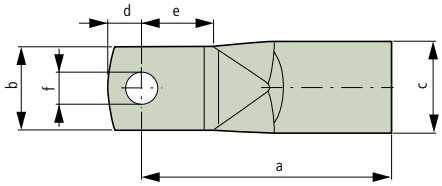
	NZM1	**NZM2**	**NZM3**	**NZM4**
NZM1	0	5	5	15
NZM2	5	5	5	15
NZM3	5	5	5	15
NZM4	15	15	15	15

Between switch and other components
Minimum clearance in mm

	b		c		d	
	≦ 690 V	1000 V	≦ 690 V	1000 V	≦ 690 V	1000 V
NZM1	0	–	60	–	0	–
NZM2	5	5	35	35	35	35
NZM3	5	5	60	60	60	60
NZM4	15	15	100	200	0	0

Dimensions





Cable lug	For use with	Nominal cross-section	Terminal bolts	Dimensions in mm								
		mm²	∅	a	b	c	d	e	f	g	h	i
KS95-NZM7	NZM2	95	M8	53_{+2}	$23_{\pm0.5}$	$18_{\pm0.2}$	$10_{\pm1}$	19	8,5	25	13,5	4,4
KS120-NZM7	NZM2	120	M8	56_{+2}	$23_{\pm0.5}$	$19.5_{\pm0.2}$	$10_{\pm1}$	19	8,5	26	15	4,4
KS150-NZM7	NZM2	150	M8	61_{+2}	$23_{\pm0.5}$	$21_{\pm0.2}$	$10_{\pm1}$	19	8,5	30	16,5	4,4
NZM2-XKS185	NZM2	185	M8	$65_{\pm1.5}$	$22_{\pm1}$	$24_{\pm0.3}$	$9^{+1}_{-0,5}$	$19^{+2,5}_{-0,5}$	$8,5^{+0,05}_{-0,1}$	$30_{\pm2}$	$19_{\pm0.4}$	7
NZM3-XKS185	NZM3, NZM4	185	M10	65	24,5	24	11,5	18	10,5	30	19	$7.0_{\pm0.8}$
NZM3-XKS240	NZM3, NZM4	240	M10	72	31	26	11,5	19	10,5	35	21	$5.0_{\pm0.8}$

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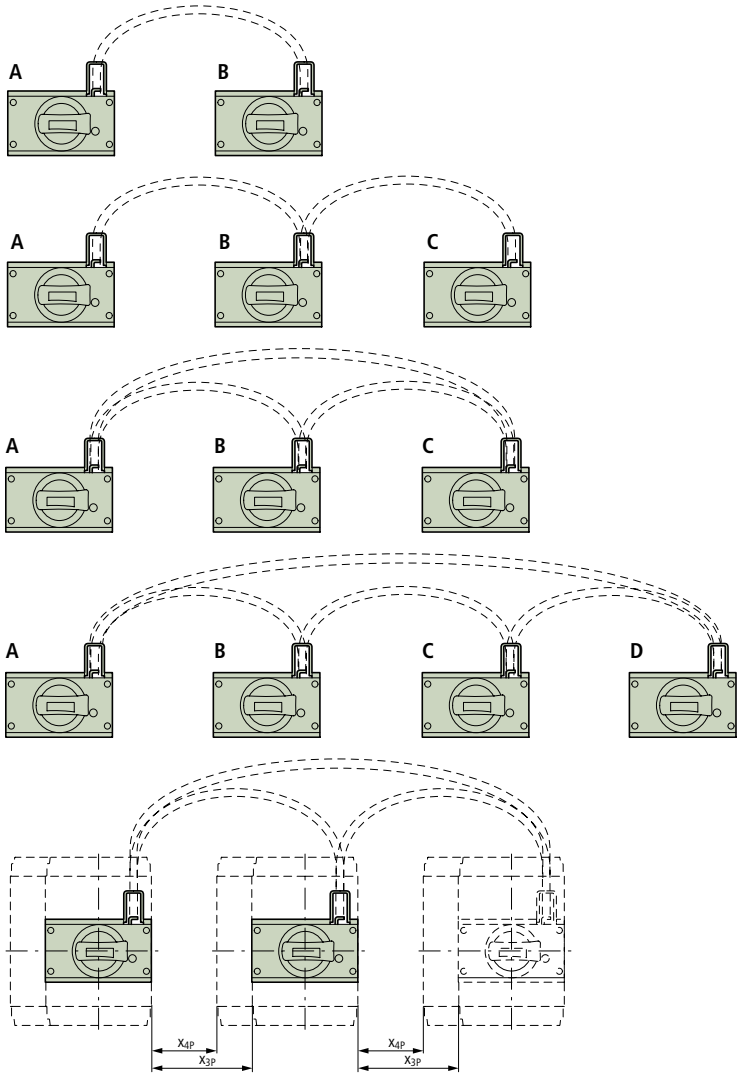
Interlocking variants combination options



A	B
OFF	OFF
ON/TRIP	~~ON~~
~~ON~~	ON/TRIP

A	B	C
OFF	OFF	OFF
~~ON~~	ON/TRIP	~~ON~~
ON/TRIP	~~ON~~	ON/TRIP

A	B	C
OFF	OFF	OFF
ON/TRIP	~~ON~~	~~ON~~
~~ON~~	ON/TRIP	~~ON~~
~~ON~~	~~ON~~	ON/TRIP

A	B	C	D
OFF	OFF	OFF	OFF
ON/TRIP	~~ON~~	ON/TRIP	~~ON~~
~~ON~~	ON/TRIP	~~ON~~	ON/TRIP

X_{3p} = 3 pole switch clearance
X_{4p} = 4 pole switch clearance

NZM-XBZ225									
Max. switch clearance		NZM1		NZM2		NZM3		NZM4	
		X_{3P}	X_{4P}	X_{3P}	X_{4P}	X_{3P}	X_{4P}	X_{3P}	X_{4P}
		mm	mm	mm	mm	mm	mm	mm	mm
NZM1	3/4 pole	135	105	120	85	135	90	125	80
NZM2	3/4 pole	135	105	120	85	135	90	125	80
NZM3	3/4 pole	90	75	75	35	85	40	80	45
NZM4	3/4 pole	50	35	40	15	25	–	15	–

NZM-XBZ600									
Max. switch clearance		NZM1		NZM2		NZM3		NZM4	
		X_{3P}	X_{4P}	X_{3P}	X_{4P}	X_{3P}	X_{4P}	X_{3P}	X_{4P}
		mm	mm	mm	mm	mm	mm	mm	mm
NZM1	3/4 pole	510	480	495	460	510	465	475	405
NZM2	3/4 pole	510	480	495	460	510	465	475	405
NZM3	3/4 pole	460	430	450	410	460	415	460	390
NZM4	3/4 pole	400	370	380	340	400	375	390	320

NZM-XBZ1000									
Max. switch clearance		NZM1		NZM2		NZM3		NZM4	
		X_{3P}	X_{4P}	X_{3P}	X_{4P}	X_{3P}	X_{4P}	X_{3P}	X_{4P}
		mm	mm	mm	mm	mm	mm	mm	mm
NZM1	3/4 pole	910	880	895	860	910	865	865	795
NZM2	3/4 pole	910	880	895	860	910	865	865	795
NZM3	3/4 pole	820	790	850	810	860	815	860	790
NZM4	3/4 pole	750	720	730	700	800	775	790	720

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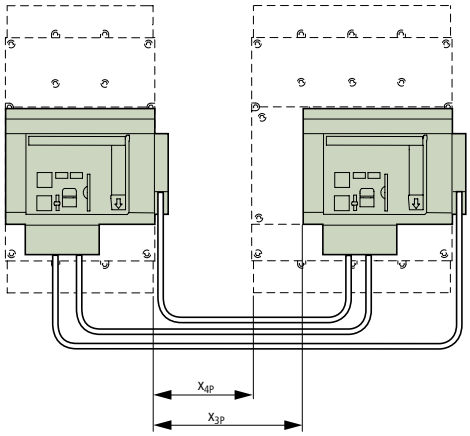

Mechanical interlock, XMVR (mounting side-by-side)

NZM...-XMVR

Max. switch clearance		NZM2		NZM3		NZM4	
		3 pole	4 pole	3 pole	4 pole	3 pole	4 pole
NZM2	3/4 pole	130	96	–	–	–	–
NZM3	3/4 pole	95	50	135	90	200	130
NZM4	3/4 pole	–	–	–	–	160	90

Mechanical interlock, XMVRL (mounting in adjacent control panel sections)

NZM...-XMVRL

Max. switch clearance		NZM2		NZM3		NZM4	
		3 pole	4 pole	3 pole	4 pole	3 pole	4 pole
NZM2	3/4 pole	on request	on request	–	–	–	–
NZM3	3/4 pole	on request	on request	on request	on request	on request	on request
NZM4	3/4 pole	–	–	–	–	on request	on request

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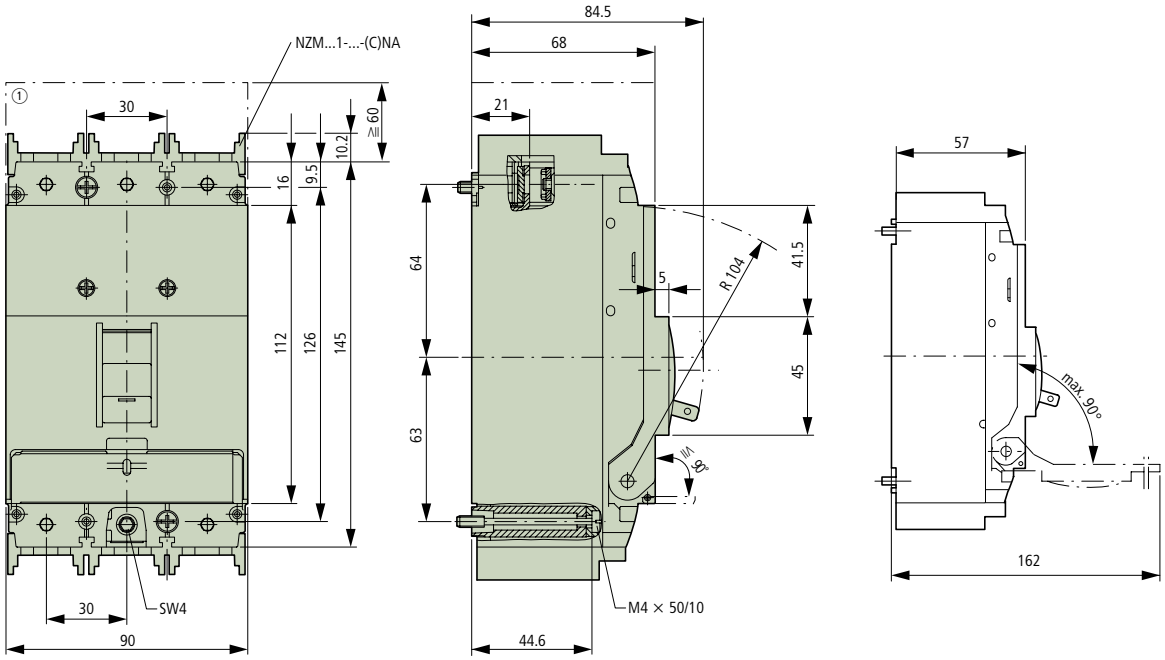
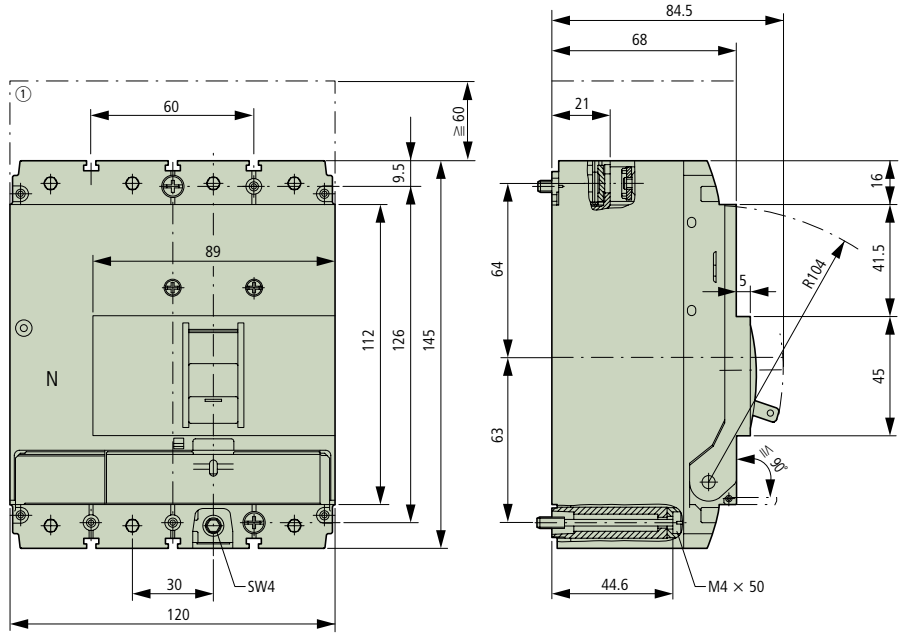
Circuit-breaker, switch-disconnector, 3-pole
NZMB1, NZMN1, NZMH1, PN1, N1, NS1



① Blow out area, minimum clearance to other parts≧ 60 mm

Circuit-breaker, switch-disconnector, 4-pole
NZMB1-4, NZMN1-4, NZMH1-4, PN1-4, N1-4



① Blow out area, minimum clearance to other parts≧ 60 mm

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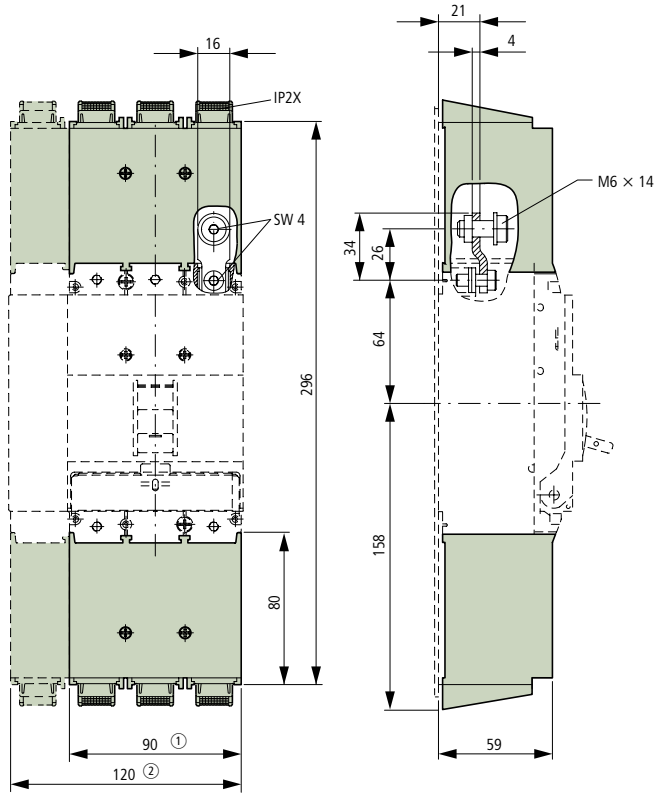
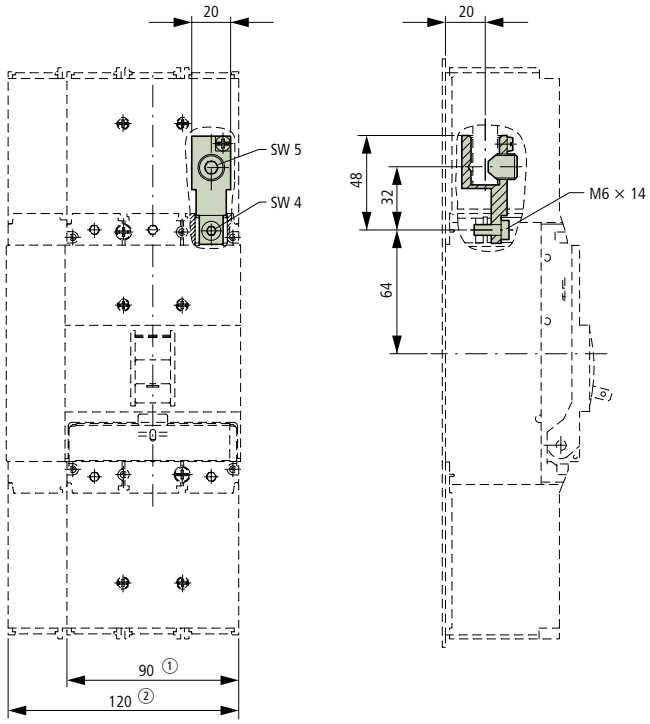
Cover for screw terminals
NZM1(-4)-XKSA
Screw connection
NZM1(-4)-XKS
IP2X protection against contact with a finger
NZM1(-4)-XIPA



① 3-pole
② 4-pole

NZM1 tunnel terminal
NZM1(-4)-XKA



① 3-pole
② 4-pole

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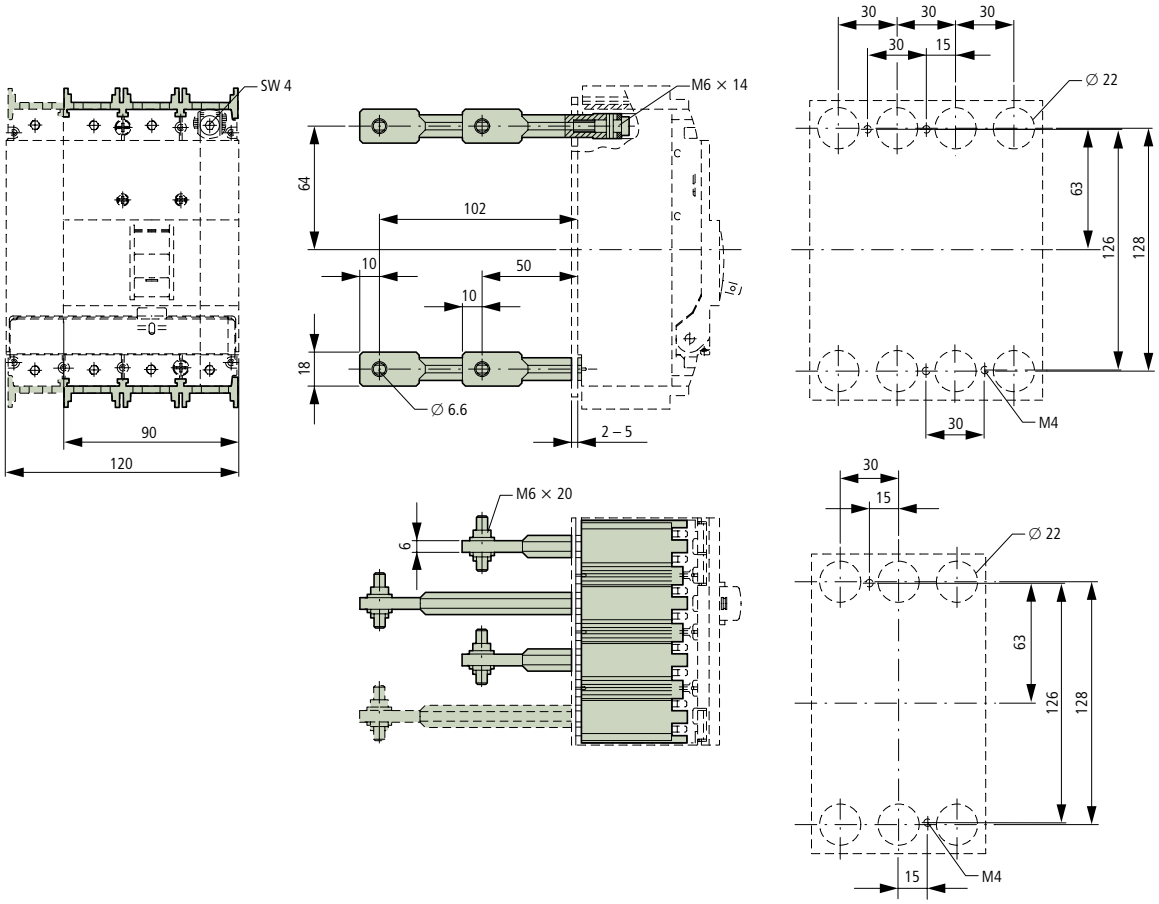
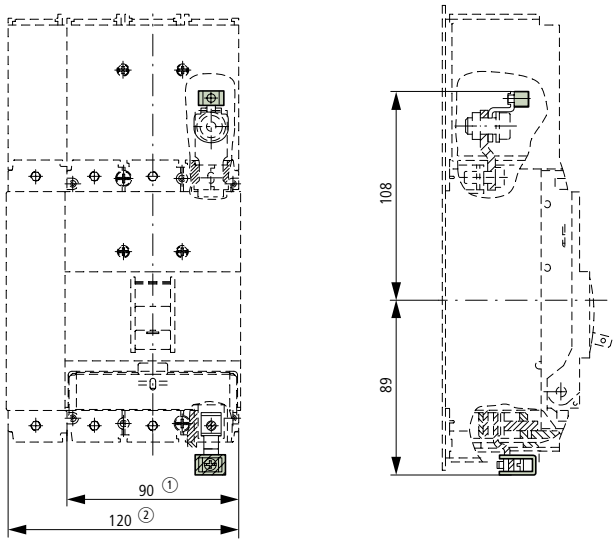
Connection on rear

NZM1(-4)-XKR



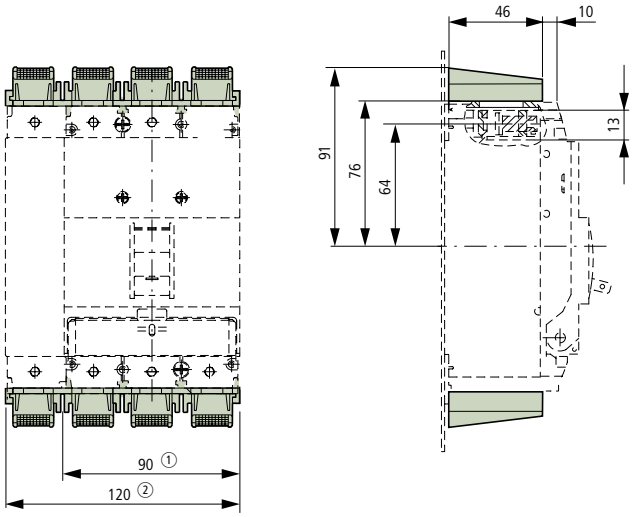
Control circuit terminal

NZM-XSTK, NZM1-XSTS



IP2X protection against contact with a finger

NZM1(-4)-XIPK



① 3-pole
② 4-pole

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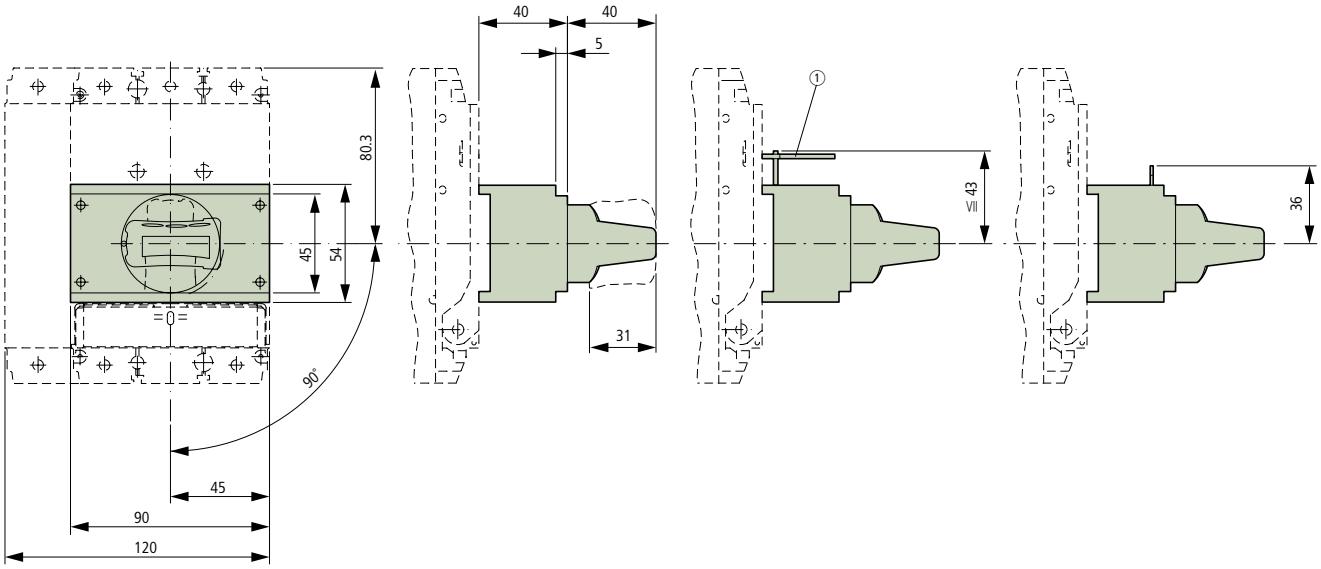
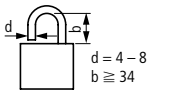
Rotary handle for circuit-breaker

NZM1-XD NZM1-XDV(R) NZM1-XDTV

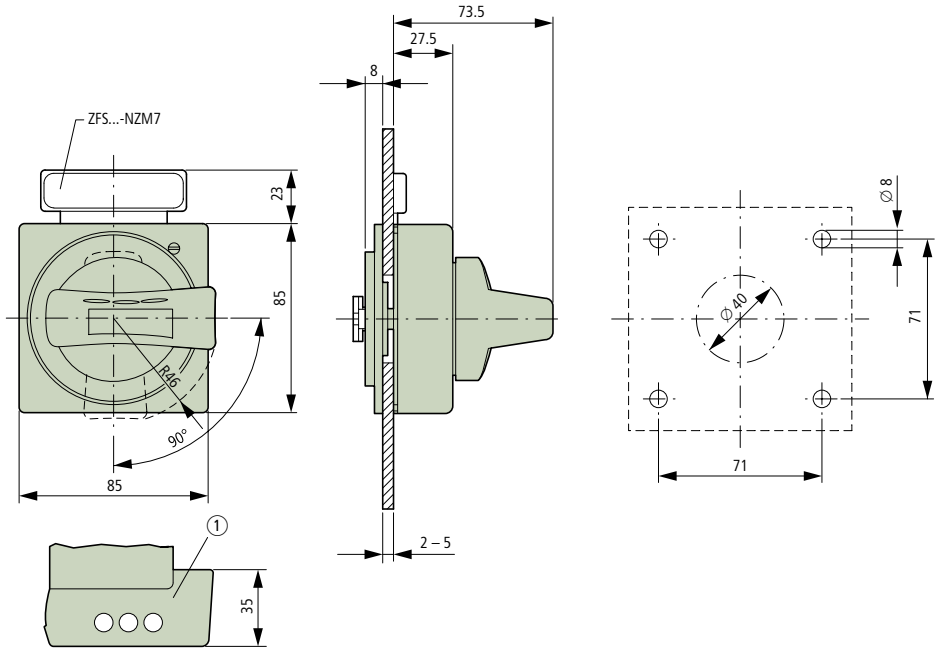


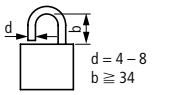


① Up to 3 padlocks

Door coupling rotary handle

NZM1-XT(V)D(V)(R)





① Up to 3 padlocks

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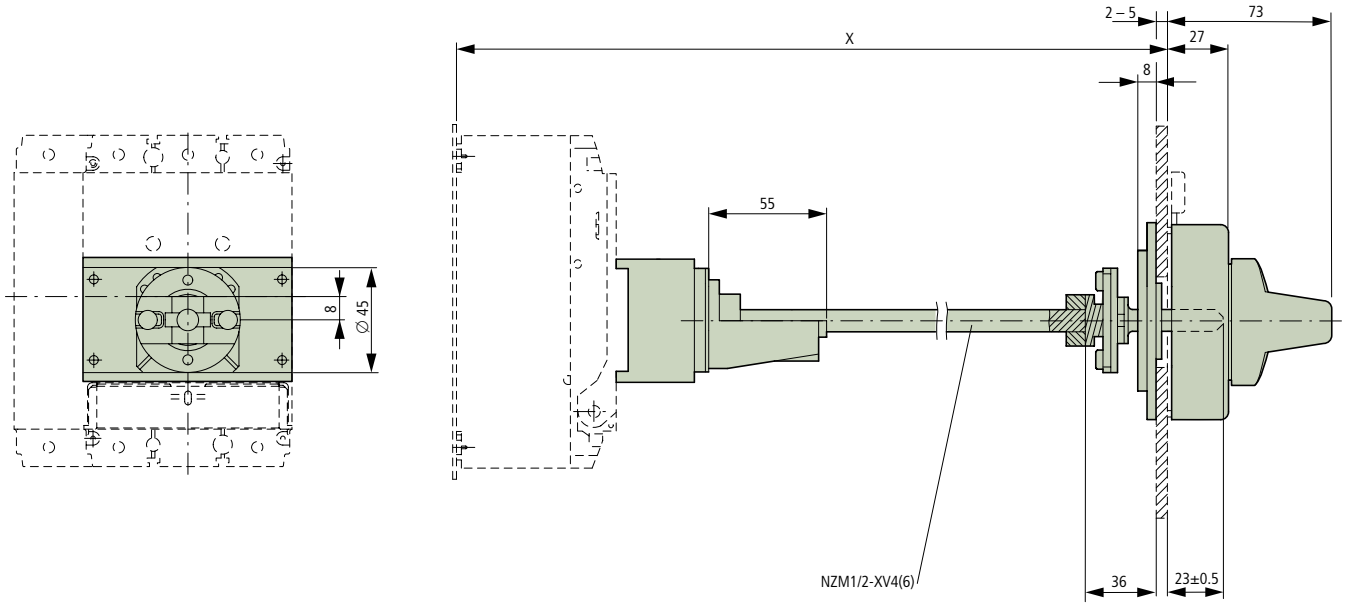
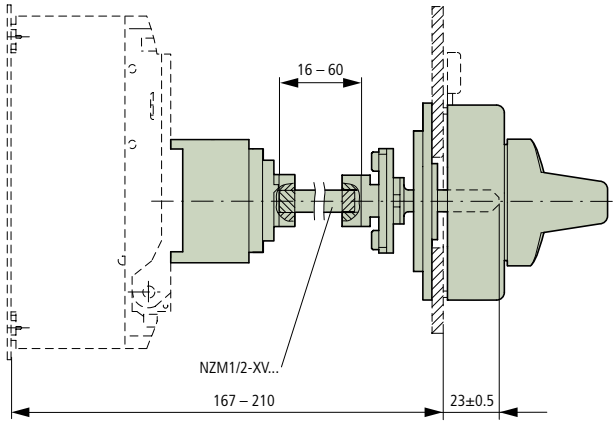
Door coupling rotary handle with extension shaft

NZM1-XT(V)D(V)(R)(-NA)
NZM1/2-XV4(6)

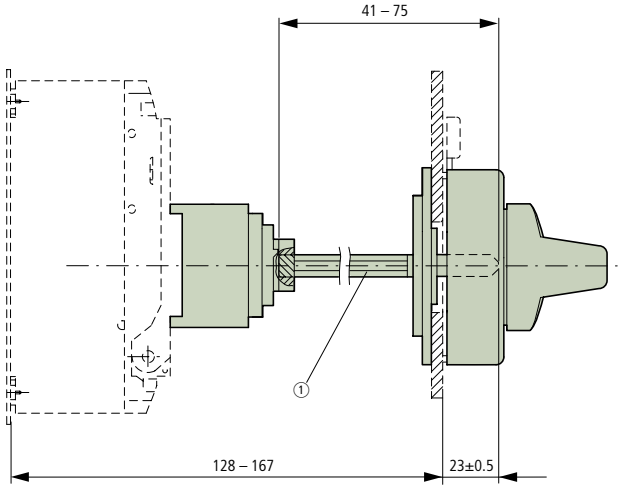


	x
NZM1/2-XV4	210 – 400
NZM1/2-XV6	400 – 600

NZM1-XT(V)D(V)(R)-60(-NA)

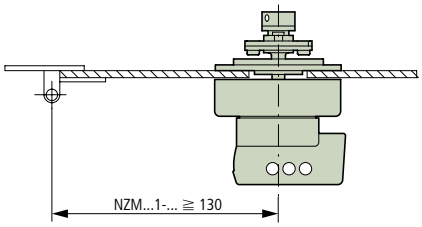


NZM1-XT(V)D(V)(R)-0(-NA)



① Special tip

Minimum door coupling rotary handle clearance from door pivot point



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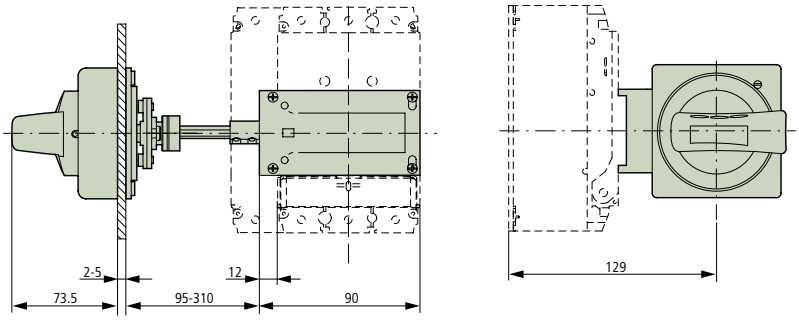
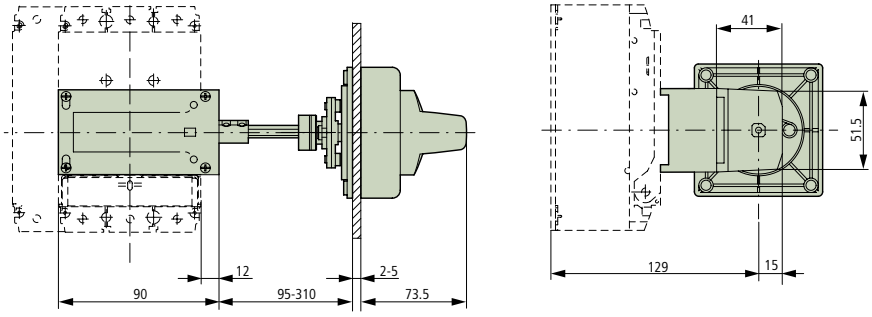
Main switch assembly kit for side wall installation

NZM1-XS(R)(F)-L

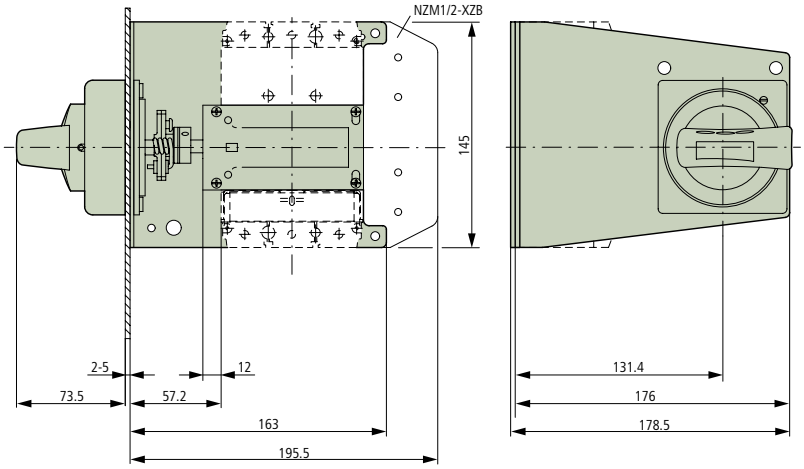


NZM1-XS(R)(F)-R

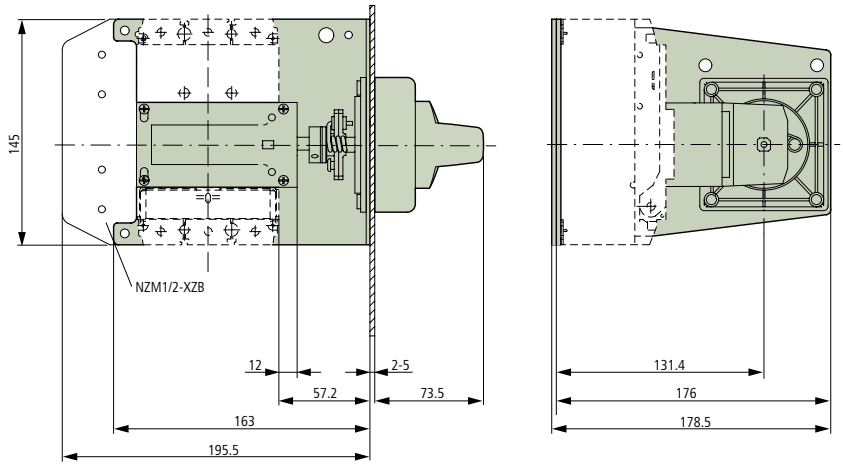


Main switch assembly kit for side panel mounting with mounting bracket

NZM1-XS(R)M-L



NZM1-XS(R)M-R



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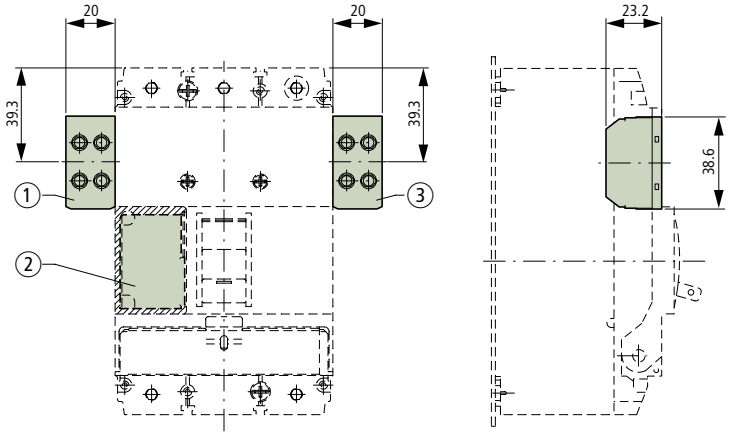
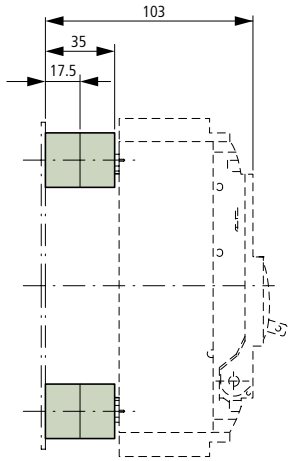
Undervoltage release, shunt release, early-make auxiliary contact



① NZM1-XA(HIV)(C)
NZM1-XU(HIV)(C)(20)
NZM1-XHIV(C)
② NZM1-XA(HIV)(L)(C)
NZM1-XU(V)(HIV)(L)(C)(20)
NZM1-XHIV(L)(C)
③ NZM1-XHIVR

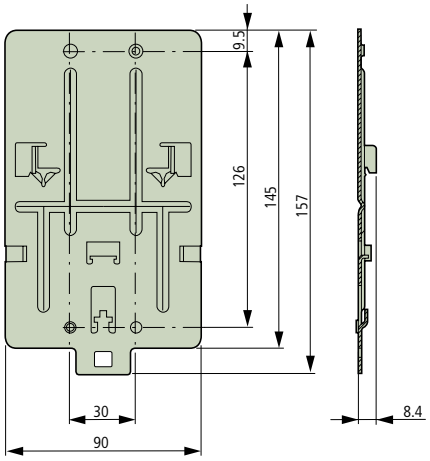
Spacers

NZM1/2-XAB



Clip plates

NZM1-XC35



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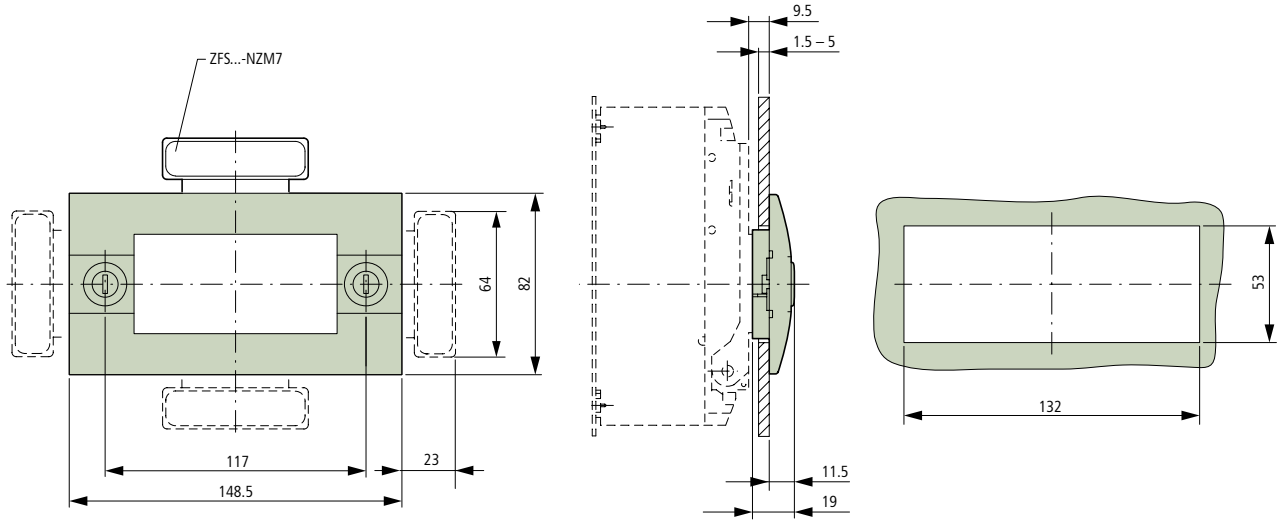
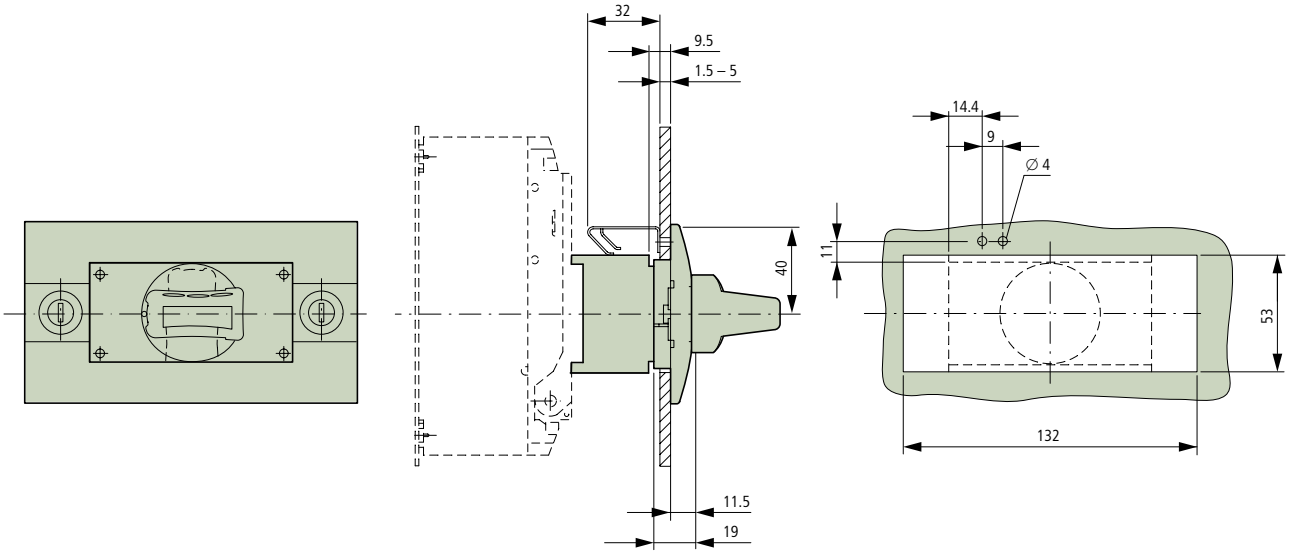
Insulating surround

NZM1-XBR



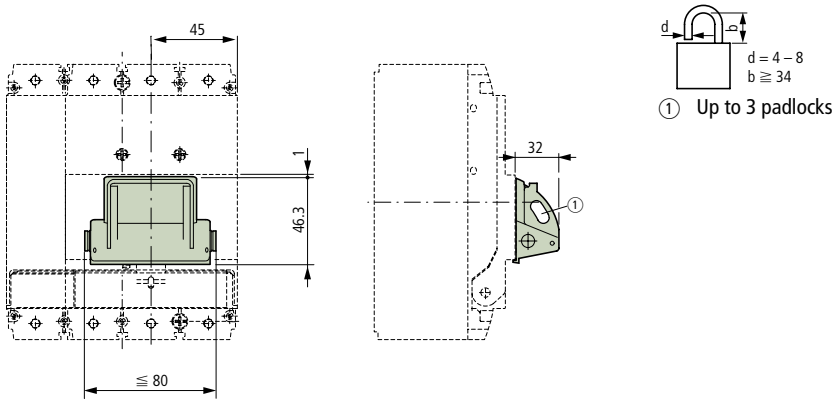
Rotary handle on switch with door interlock

NZM1-XDTV(R)



Toggle lever interlock device

NZM1-XKAV



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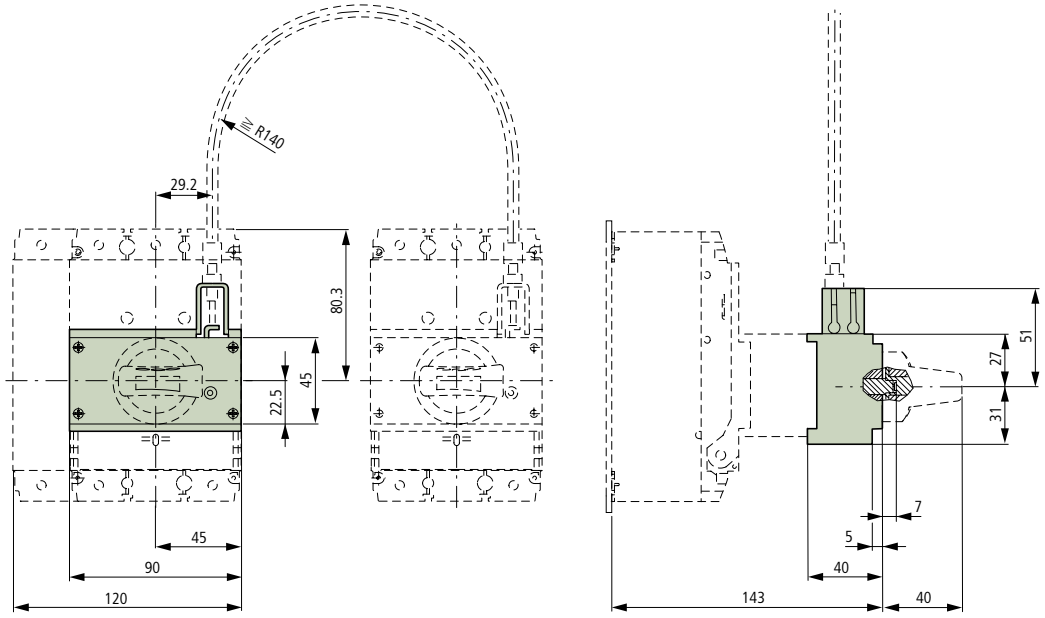
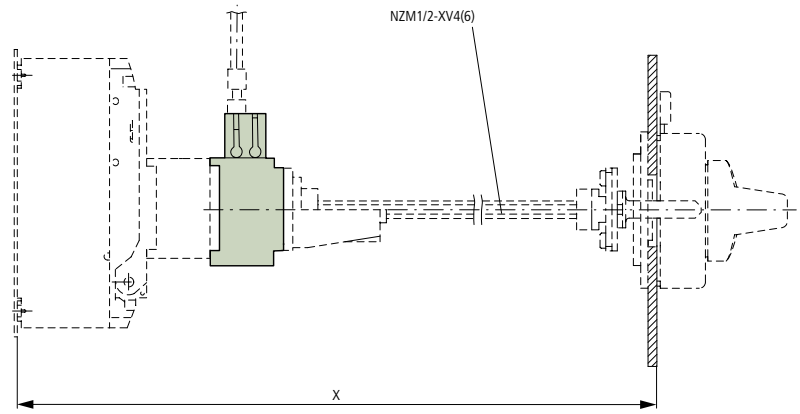
Mechanical interlock

NZM1-XMV with NZM1-XD

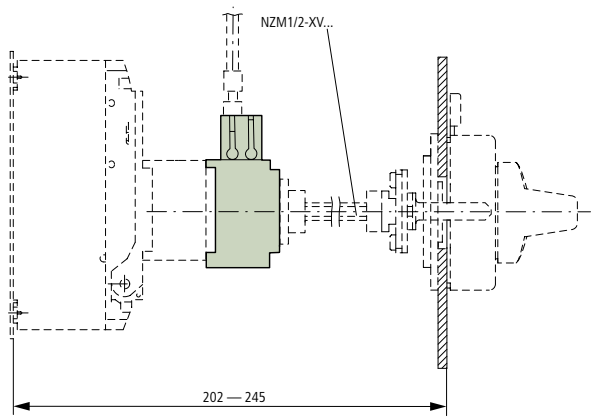


NZM1-XMV with NZM1-XT(V)D(V)(R)

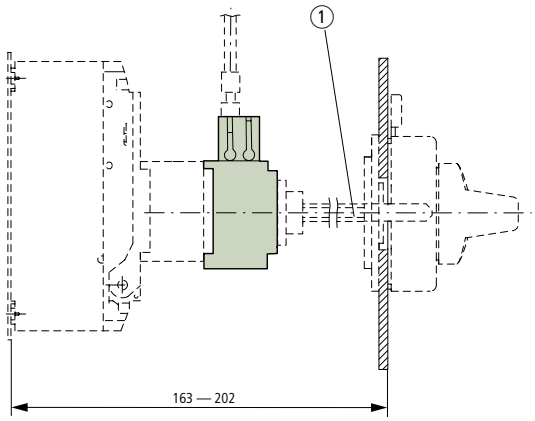


	x
NZM1/2-XV4	245 – 400
NZM1/2-XV6	400 – 600

NZM1-XMV with NZM1-XT(V)D(V)(R)-60



NZM1-XMV with NZM1-XT(V)D(V)(R)-0



① Special tip

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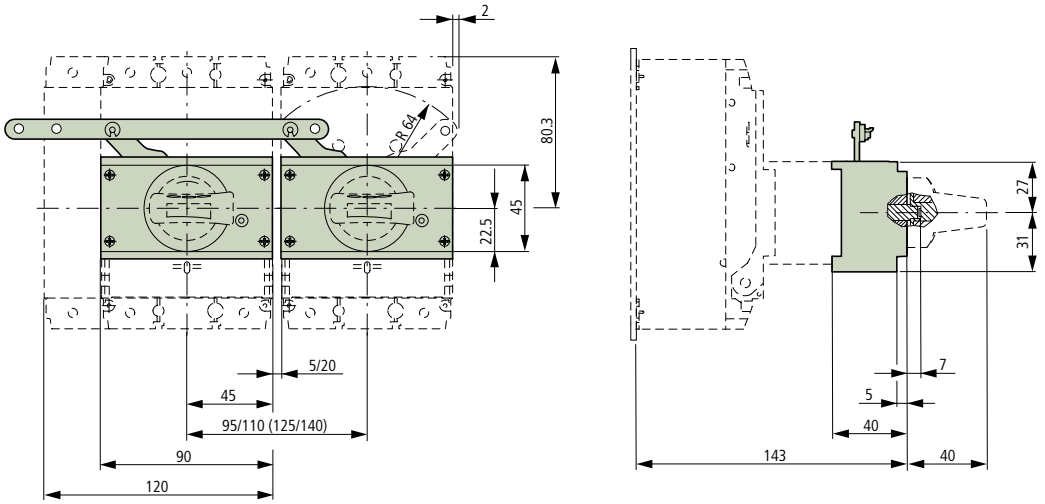
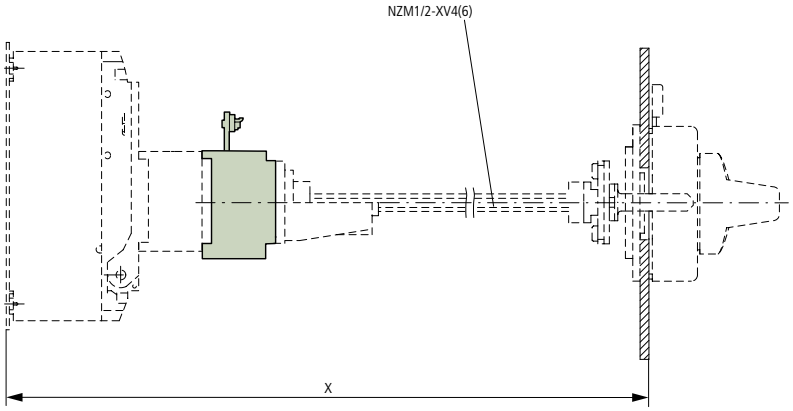
Paralleling mechanism

PN1-XPA with NZM1-XD

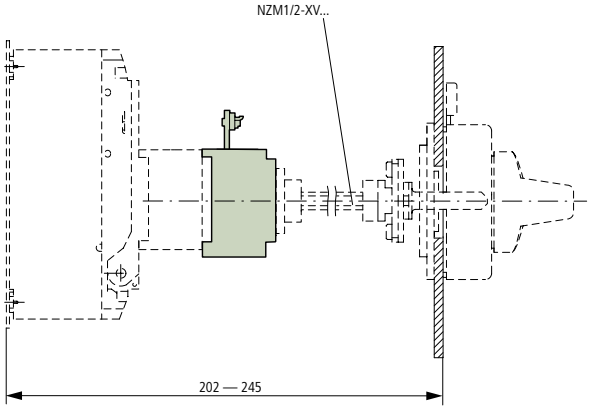


PN1-XPA with NZM1-XTD

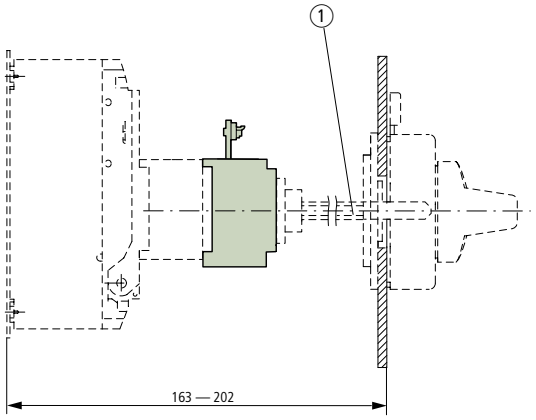


	x
NZM1/2-XV4	245 – 400
NZM1/2-XV6	400 – 600

PN1-XPA with NZM1-XTD-60



PN1-XPA with NZM1-XTD-0



① Special tip

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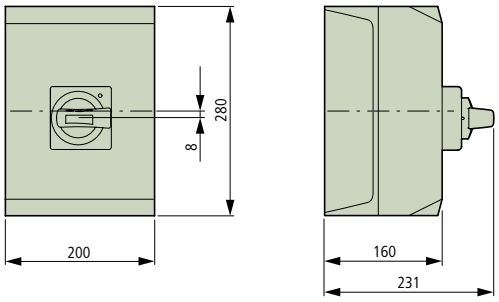
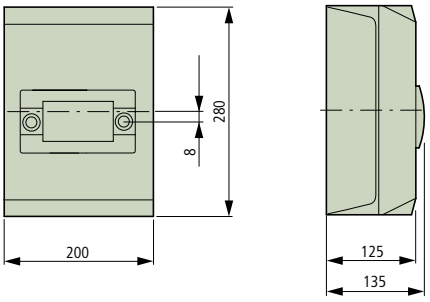
Insulated enclosures

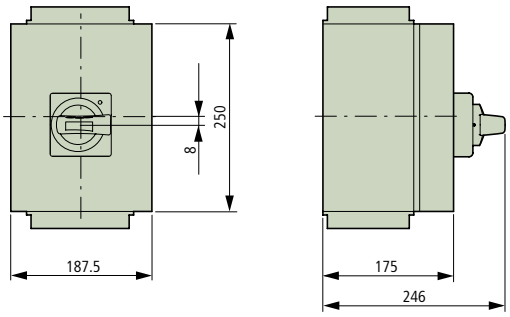
NZM1-XCIK5-T...



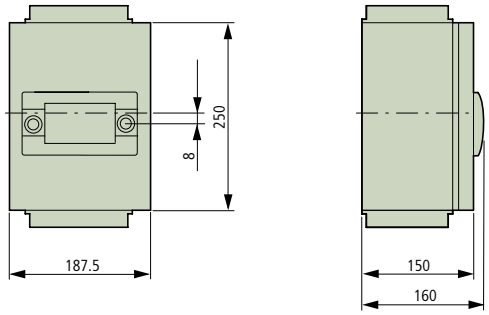
NZM1-XCIK5-BR



NZM1-XCI23-T...



NZM1-XCI23-BR



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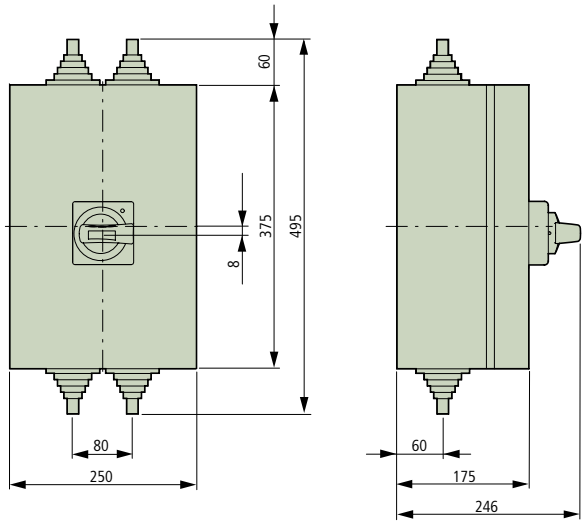
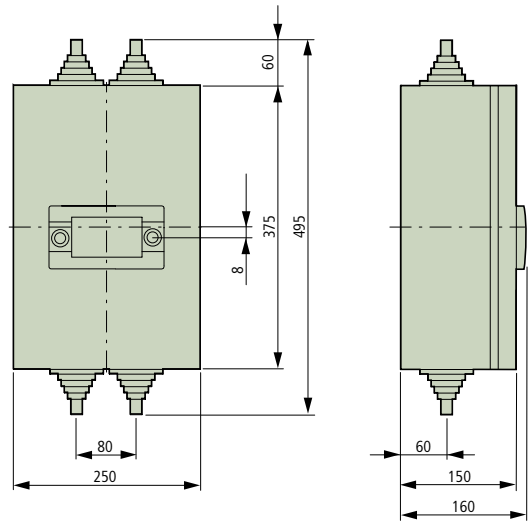
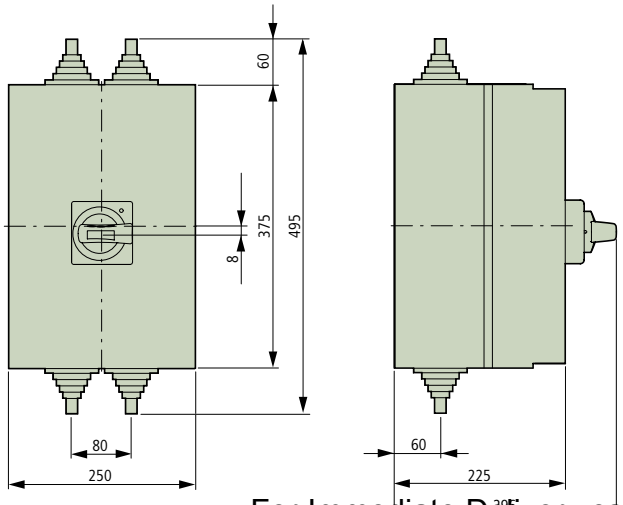


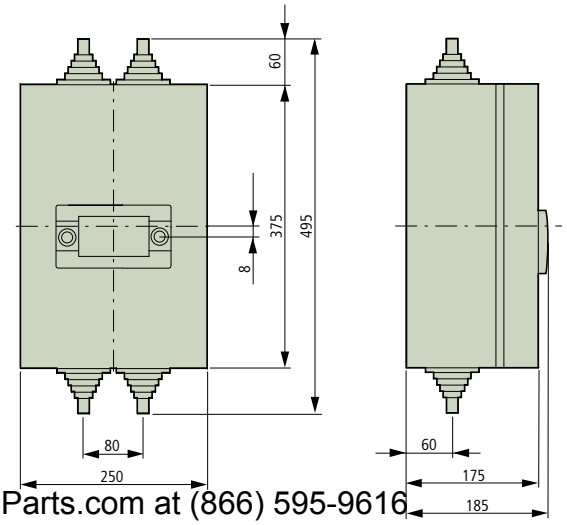
NZM1-XCI43-BR



NZM1-XCI43/2-T...



NZM1-XCI43/2-BR



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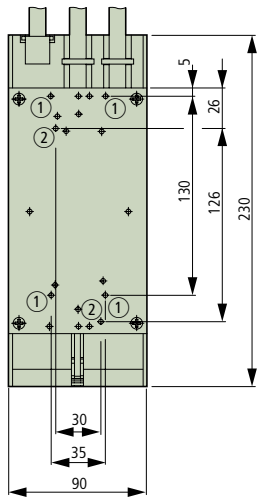
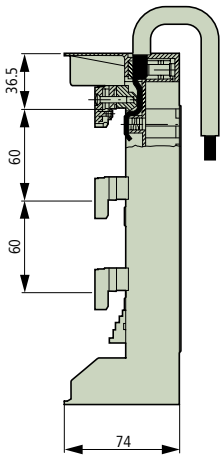
Component adapter

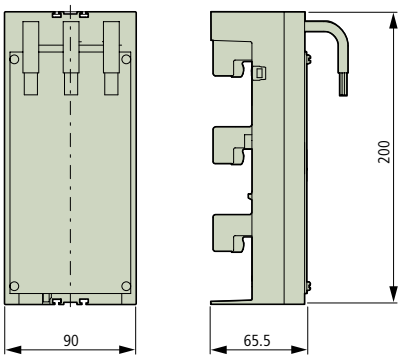
AD100/5(10)



② NZM1

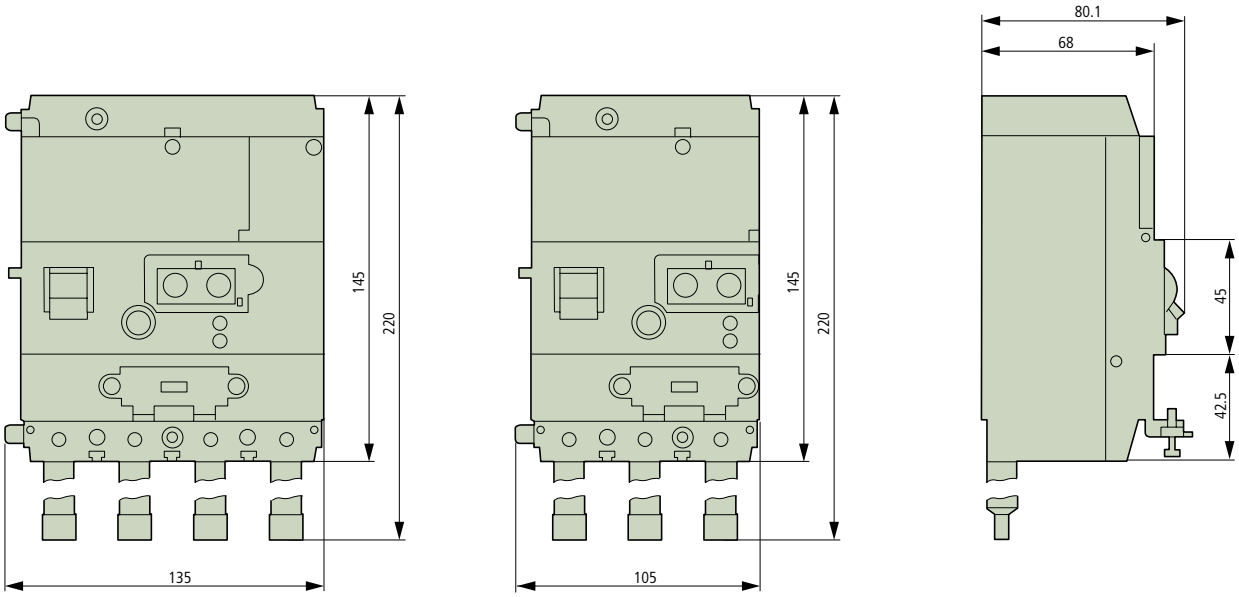


NZM1-XAD160

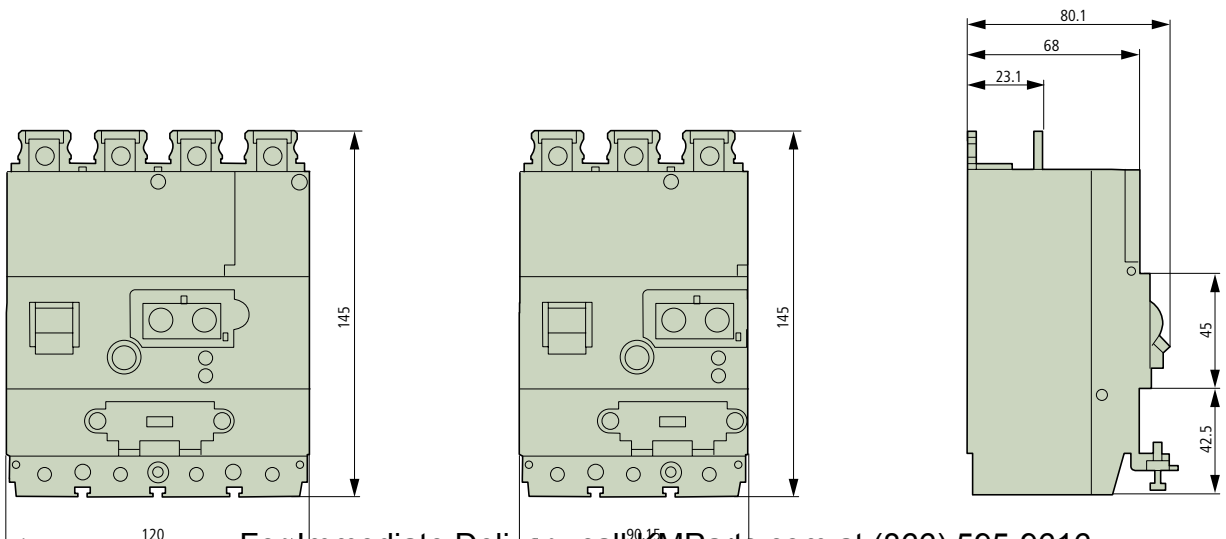


Earth-fault release

NZM1(-4)-XFI...R



NZM1(-4)-XFI...U



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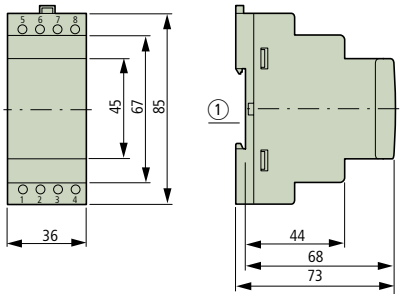
Residual current relay

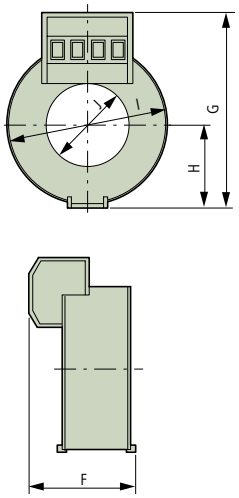
PFR-003, PFR-03, PFR-5



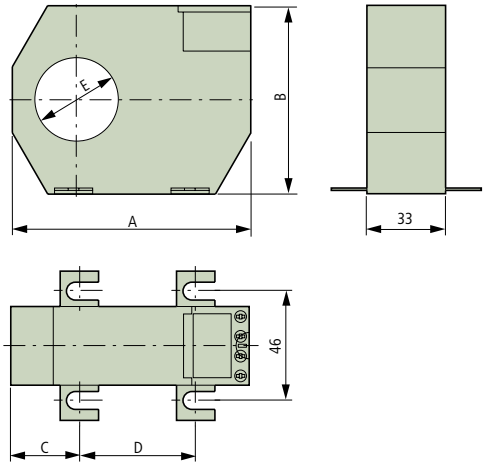
① Mounting on top-hat rail TH35 to IEC/EN 60715

Ring-type transformer

PFR-W-20, PFR-W-30



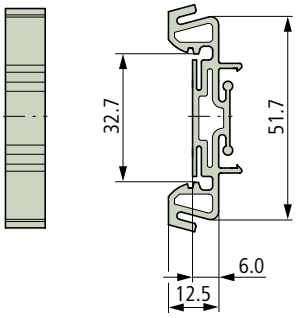
PFR-W-35(-70, -105, -140, -210)



	A	B	C	D	E
PFR-W-35	100	79	26	48,5	35
PFR-W-70	130	110	32	66	70
PFR-W-105	170	146	38	94	105
PFR-W-140	220	196	48,5	123	140
PFR-W-210	299	284	69	161	210
	F	G	H	I	J
PFR-W-20	32	60	24	46	21
PFR-W-30	32	70	30	59	30

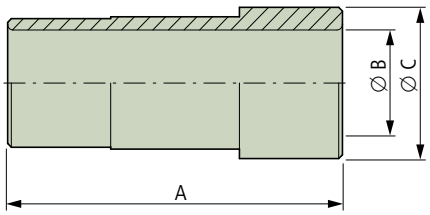
Fixing clip

PFR-WC



Magnetic shielding

PFR-WMA



	A	Ø B	Ø C
PFR-WMA-35	91	28	40
PFR-WMA-70	105	62	75
PFR-WMA-105	153	98	110
PFR-WMA-140	153	133	145
PFR-WMA-210	153	203	215

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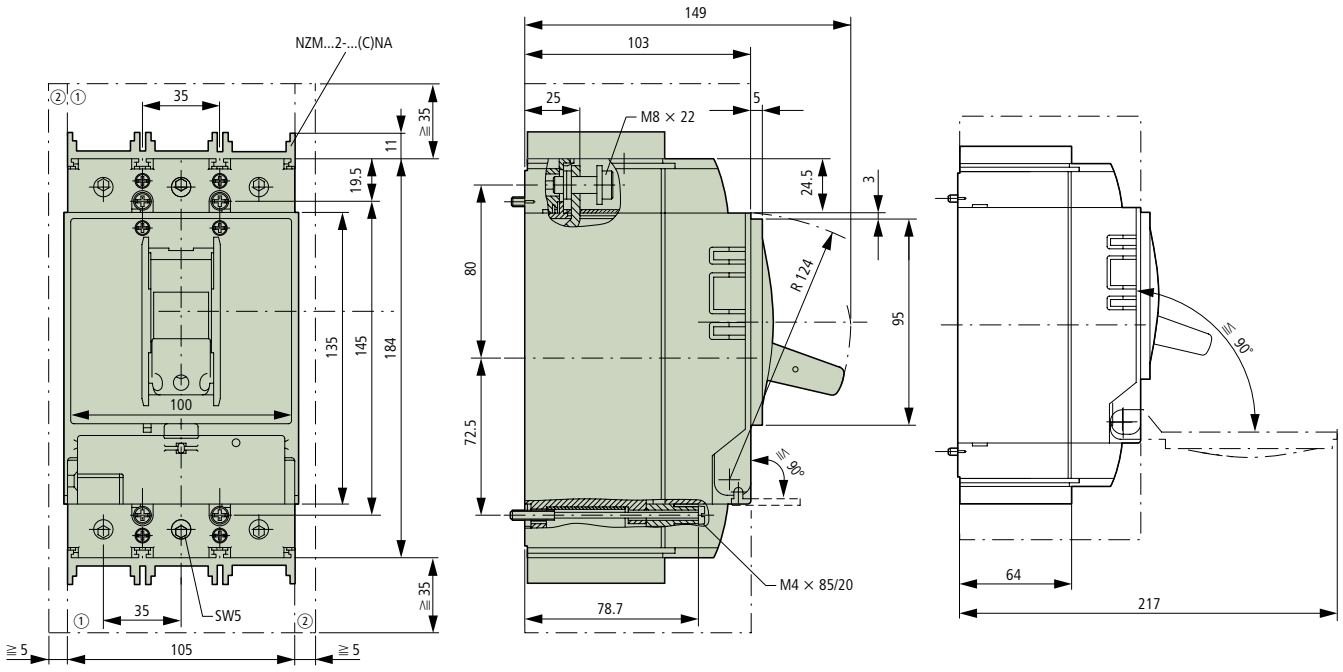
Circuit-breaker, switch-disconnector, 3-pole

NZMB2, NZMN2, NZMH2, NZML2, PN2, N2, NS2

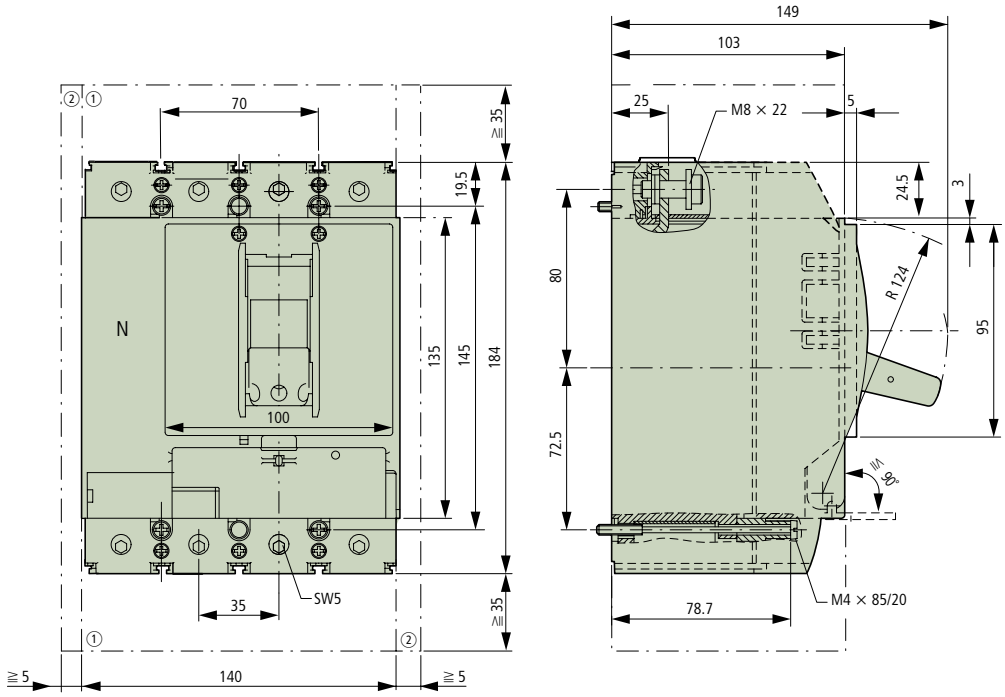


① Blow out area, minimum clearance to other parts≧ 35 mm

② Minimum clearance from adjacent parts ≧ 5 mm

Circuit-breaker, switch-disconnector, 4-pole

NZMB2-4, NZMN2-4, NZMH2-4, NZML2-4, PN2-4, N2-4



① Blow out area, minimum clearance to other parts≧ 35 mm

② Minimum clearance from adjacent parts ≧ 5 mm

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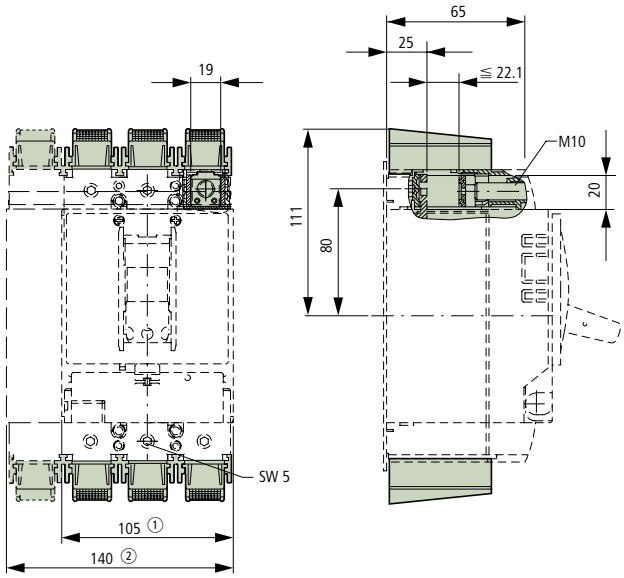
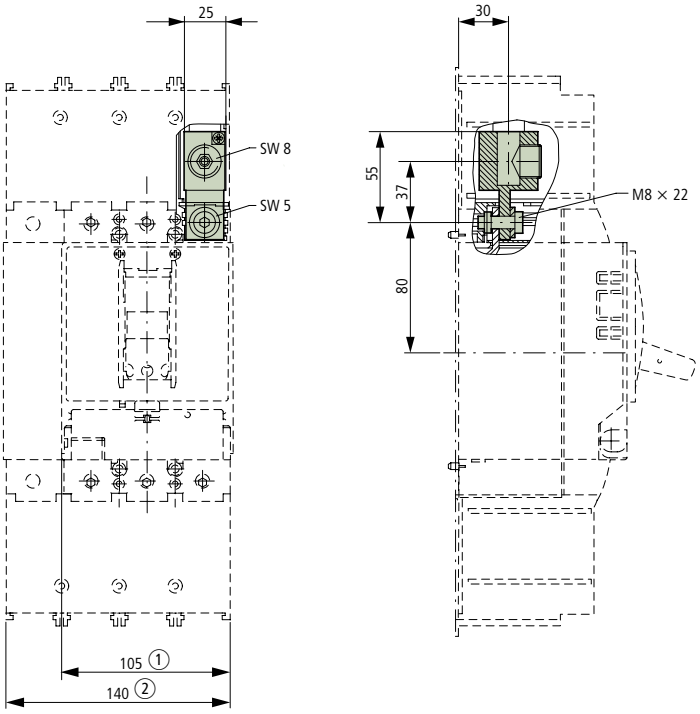
Moeller SK1230-1157GB-INT

Box terminal
NZM2(-4)-...-XKC(O)(U)
IP2X protection against contact with a finger
NZM2(-4)-XIPK

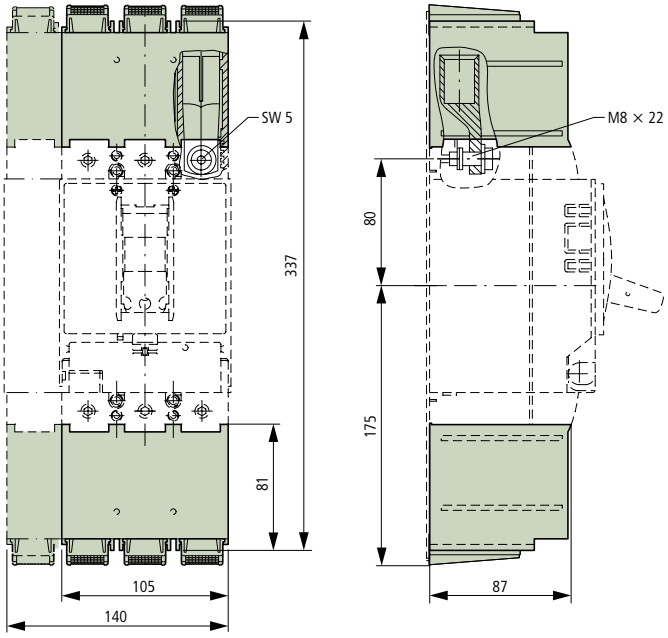


Tunnel terminal
NZM2(-4)-XKA



① 3-pole
② 4-pole

Cover for screw terminals
NZM2(-4)-XKSA
Cable lug
NZM2-XKS185
IP2X protection against contact with a finger for shroud
NZM2(-4)-XIPA



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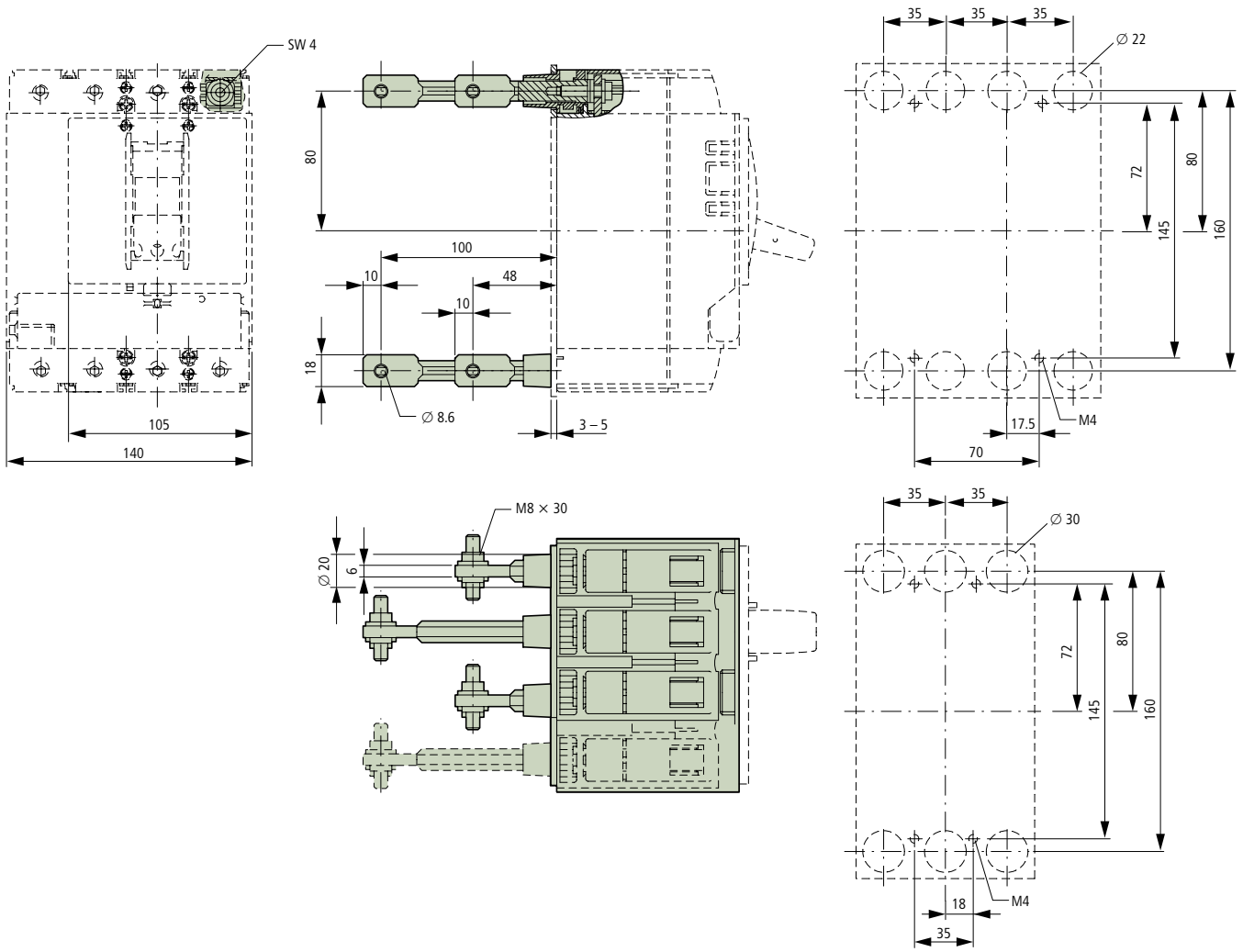
Connection on rear

(+)NZM2(-4)-XKR(O)(U)



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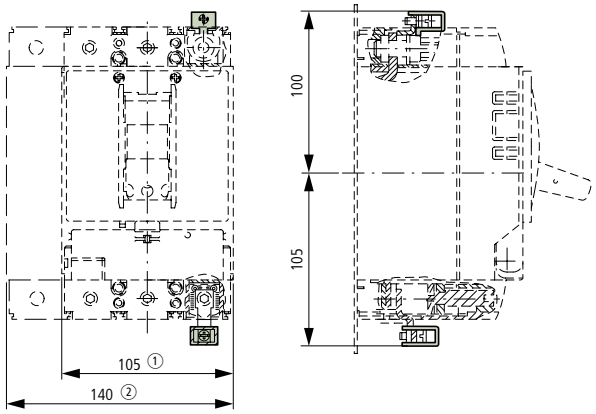
Control circuit terminal

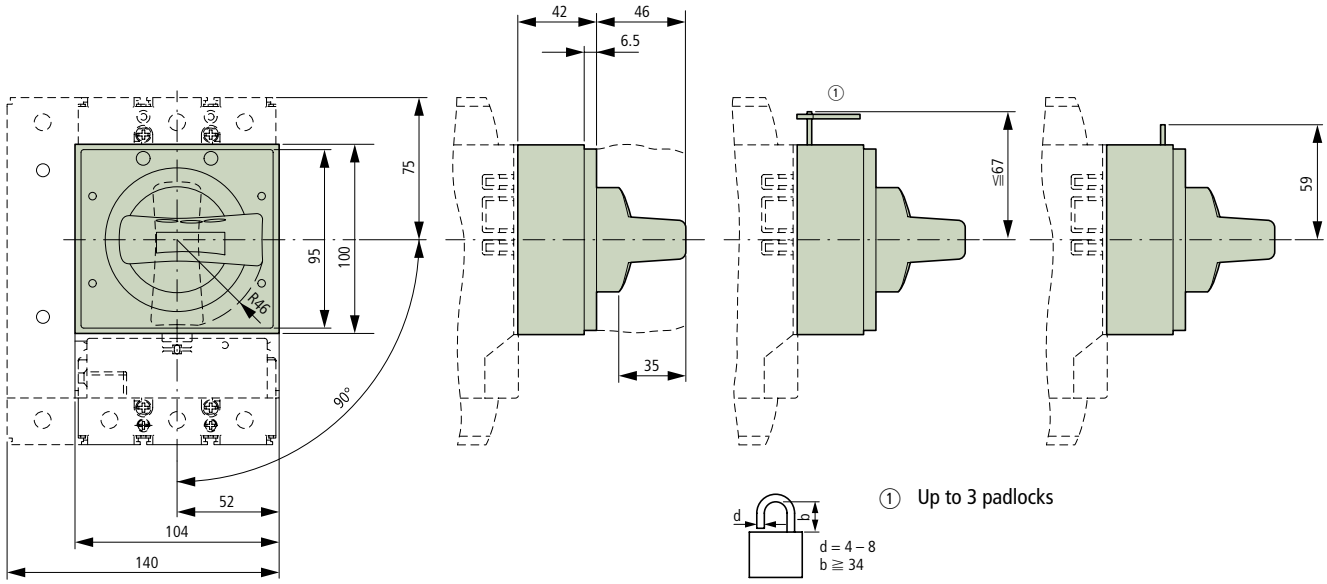
NZM2-XSTS, NZM2-XSTK



① 3-pole
② 4-pole

Rotary handle for circuit-breaker

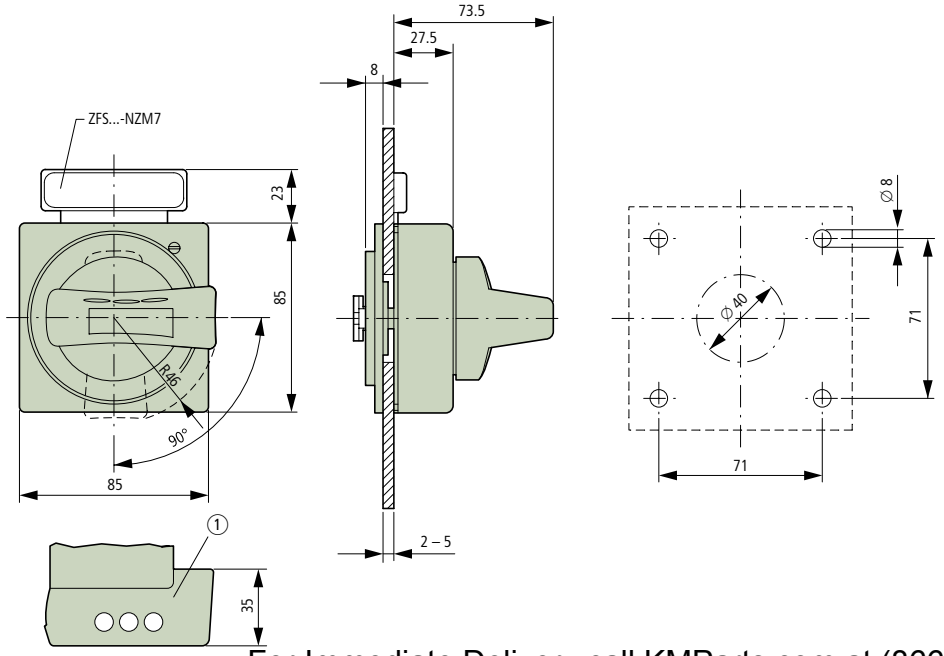
NZM2-XD NZM2-XDV(R) NZM2-XDTV(R)

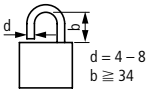


① Up to 3 padlocks

Door coupling rotary handle

NZM2-XT(V)D(V)(R)





① Up to 3 padlocks

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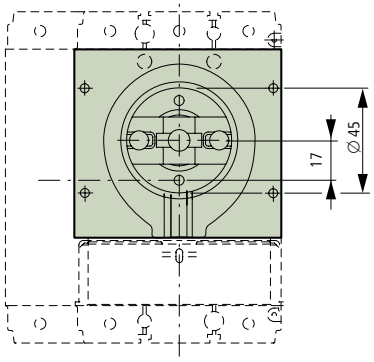
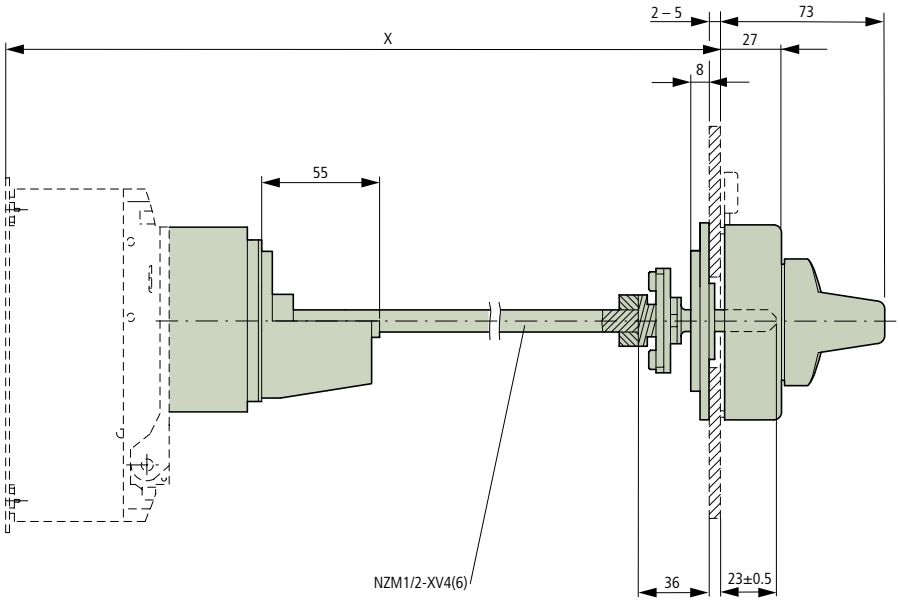
Door coupling rotary handle with extension shaft

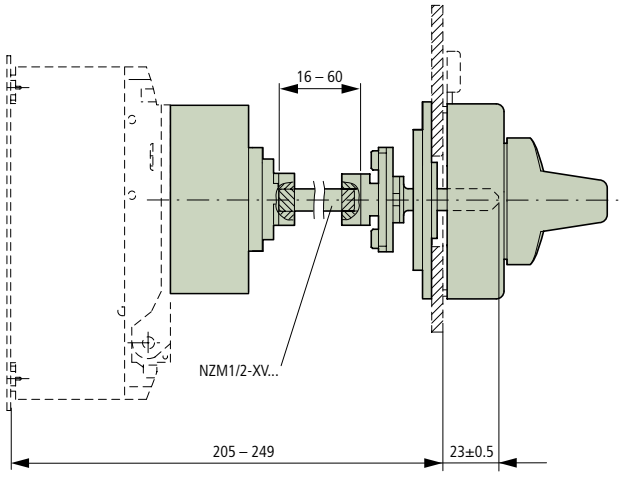
NZM2-XT(V)D(V)(R)(-NA)
NZM1/2-XV4(6)

	x
NZM1/2-XV4	245 – 400
NZM1/2-XV6	400 – 600

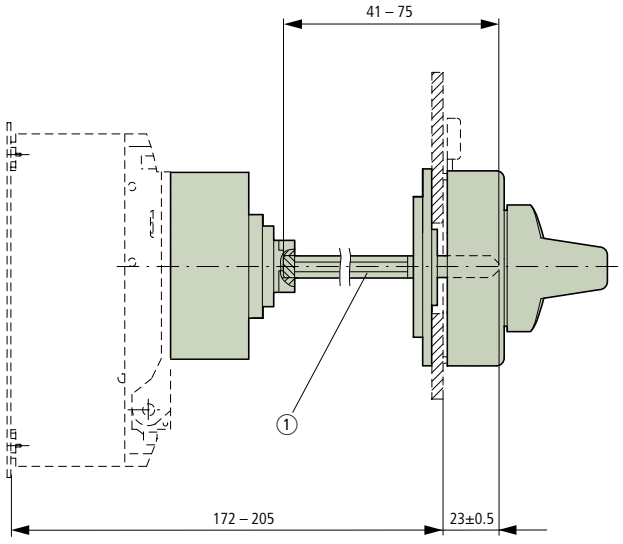




NZM2-XT(V)D(V)(R)-60(-NA)

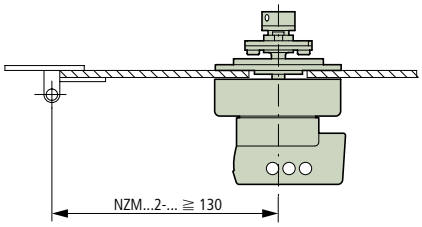


NZM2-XT(V)D(V)(R)-0(-NA)



① Special tip

Minimum door coupling rotary handle clearance from door pivot point



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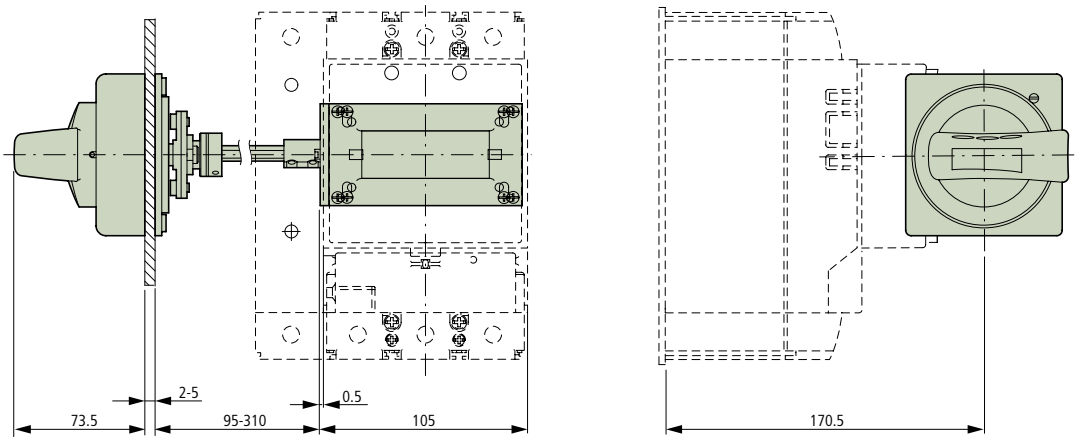
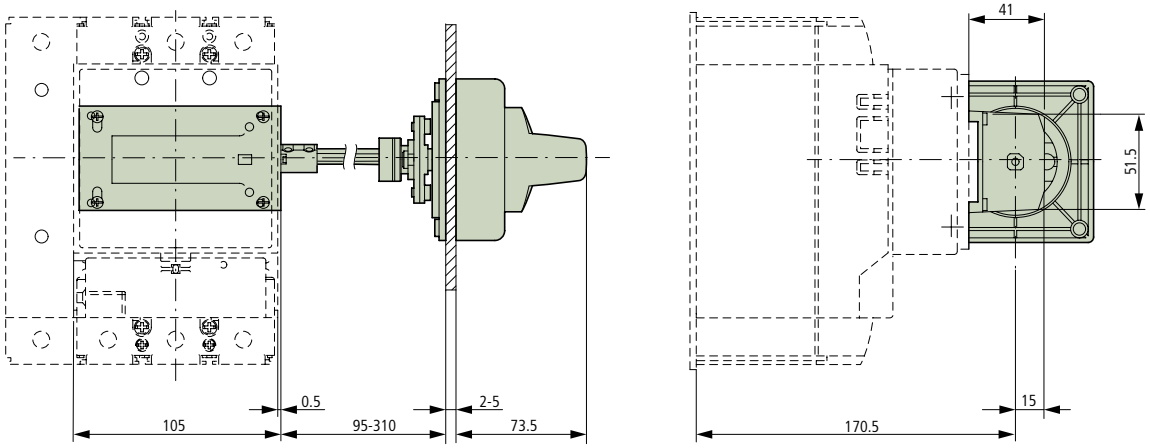
Main switch assembly kit for side wall installation

NZM2-XS(R)(F)-L



NZM2-XS(R)(F)-R



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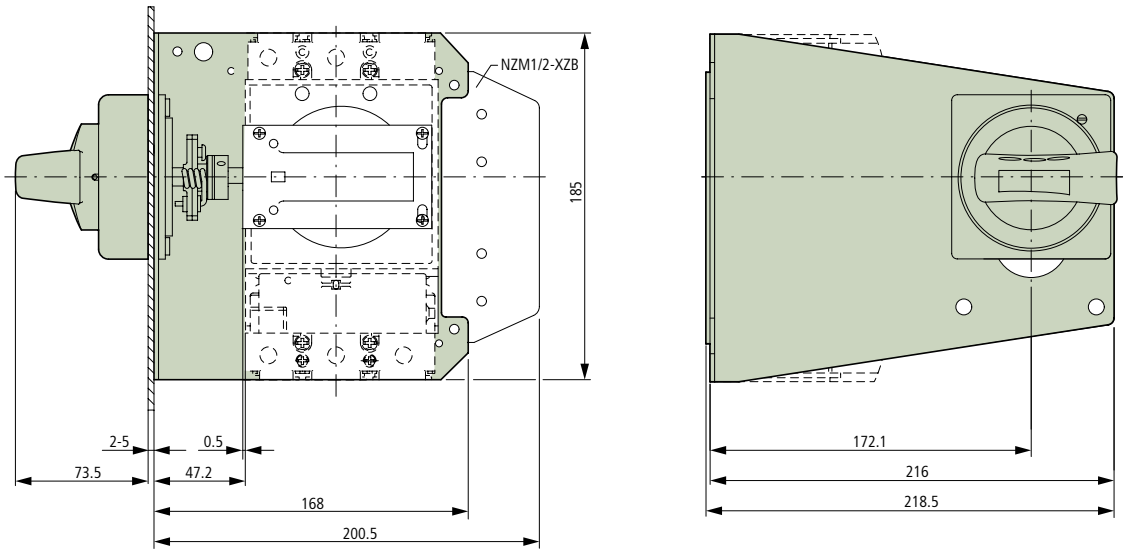
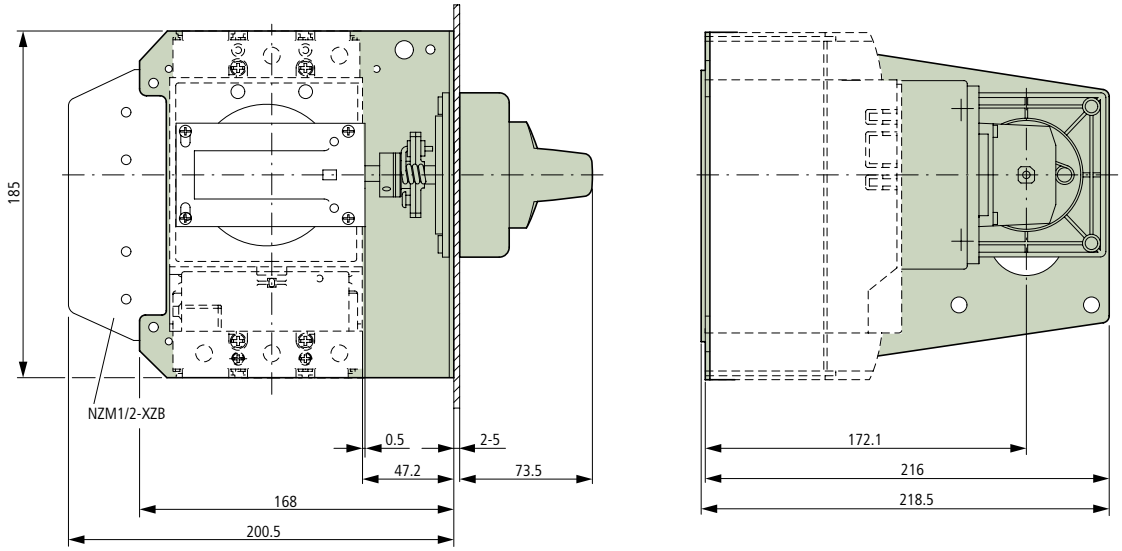
Main switch assembly kit for side panel mounting with mounting bracket

NZM2-XS(R)M-L



NZM2-XS(R)M-R



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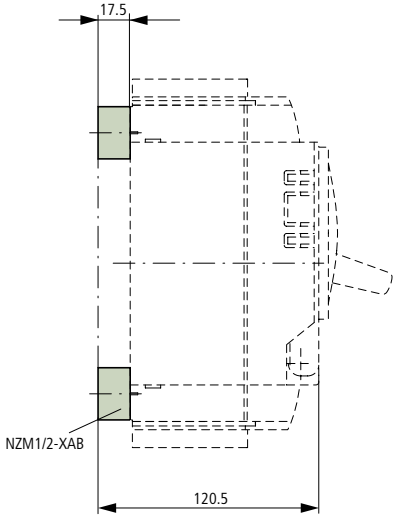
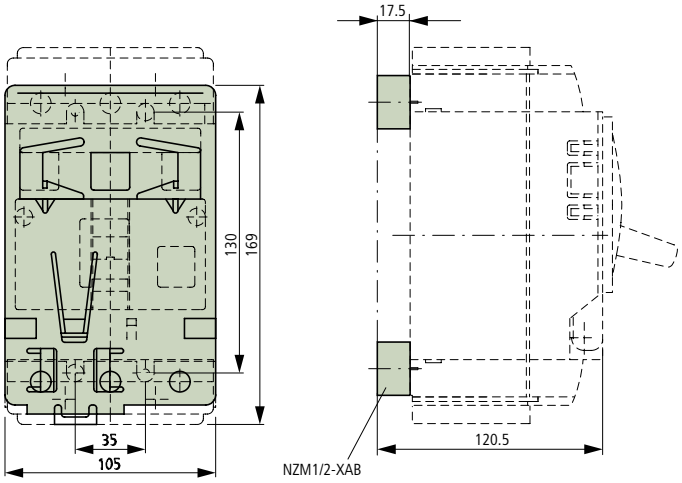
Spacers

NZM1/2-XAB



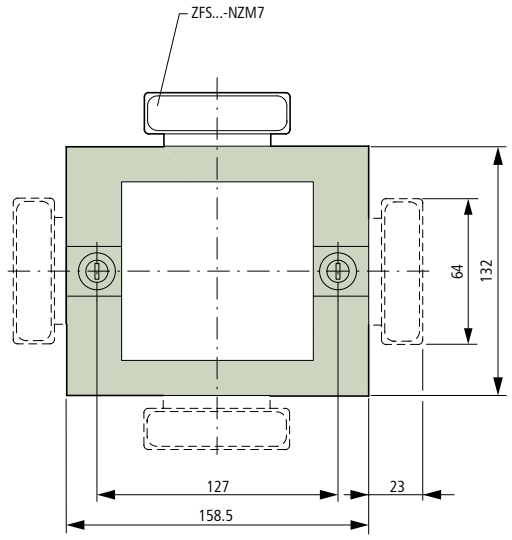
Clip plates

NZM2-XC75

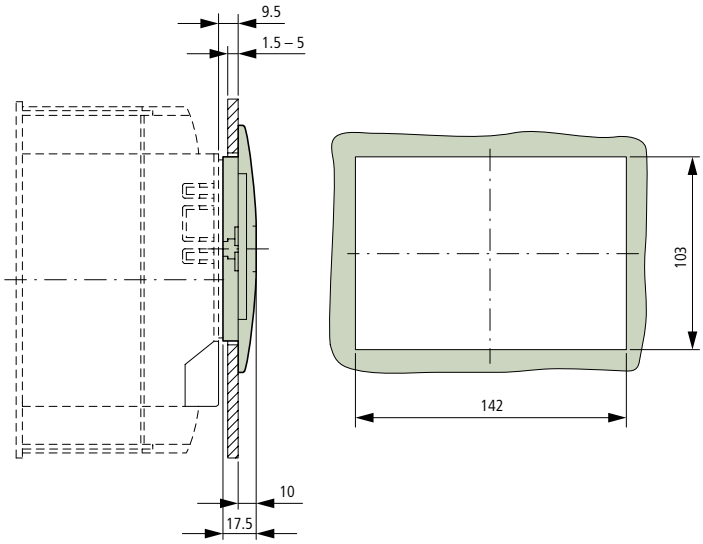


Insulating surround

NZM2-XBR

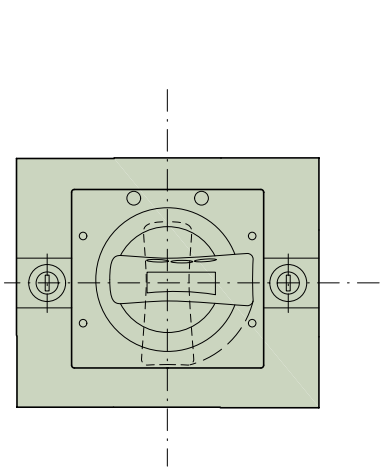


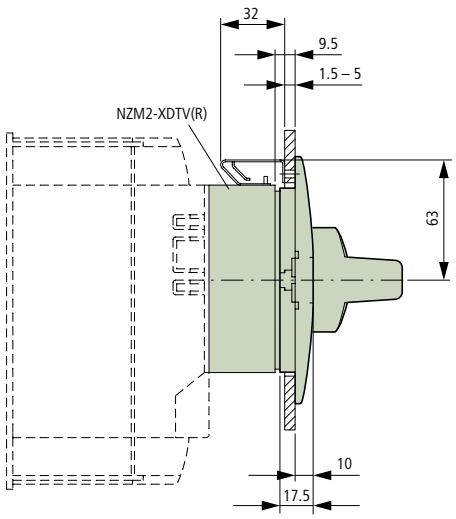
Mounting aperture



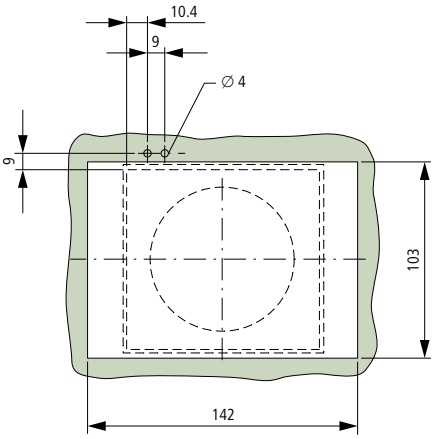
Rotary handle on switch with door interlock

NZM2-XDTV(R)





Mounting aperture



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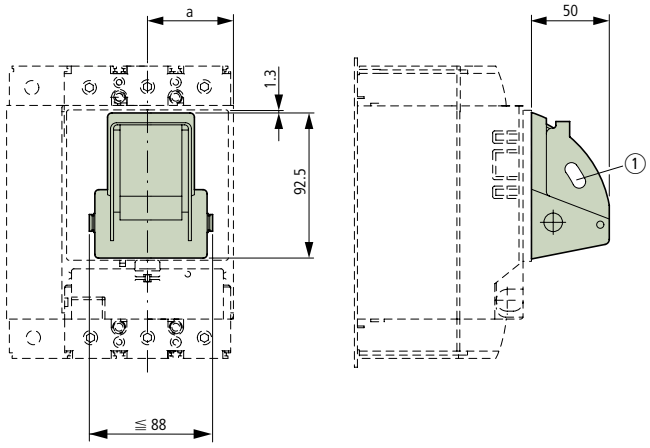
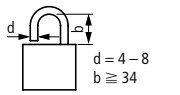
Toggle lever interlock device

NZM2/3-XKAV



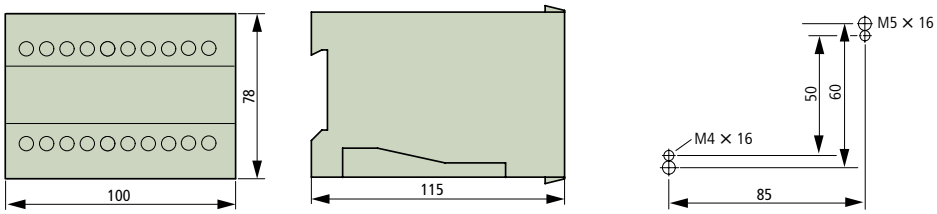


① Up to 3 padlocks

	a
NZM2, PN2, N2	52,5
NZM3, PN3, N3	70

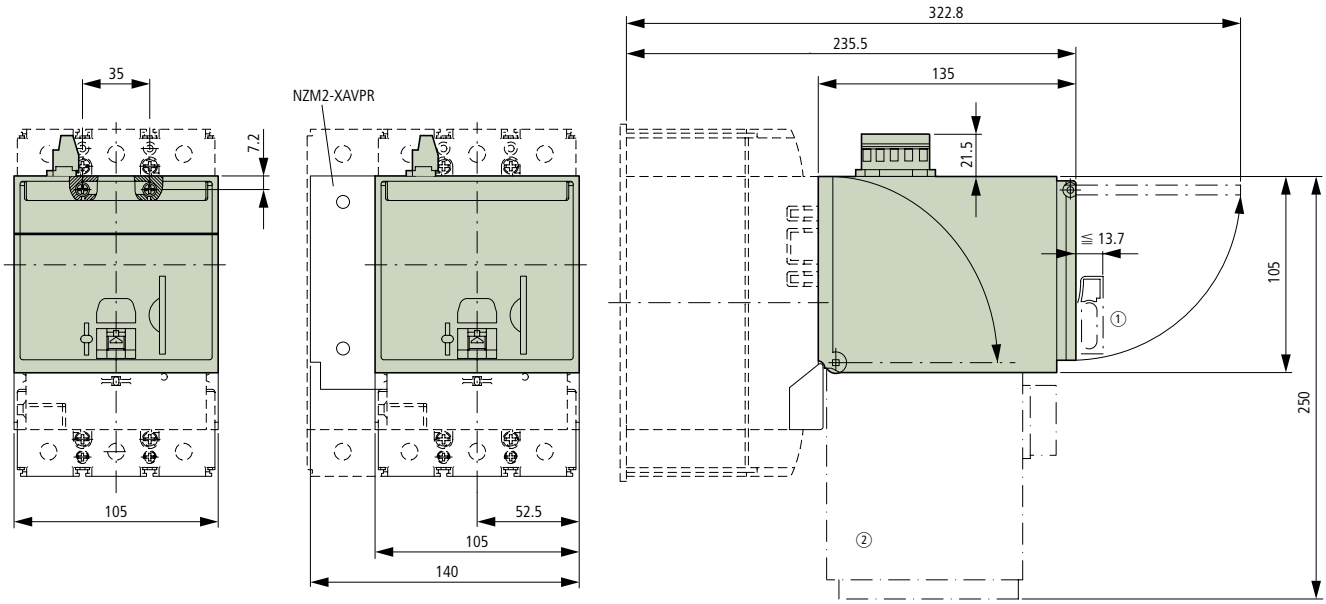
Capacitor unit

NZM-XCM



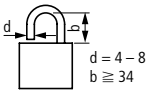
Remote operator

NZM2-XR...



① Up to 3 padlocks

② Remote operator folded



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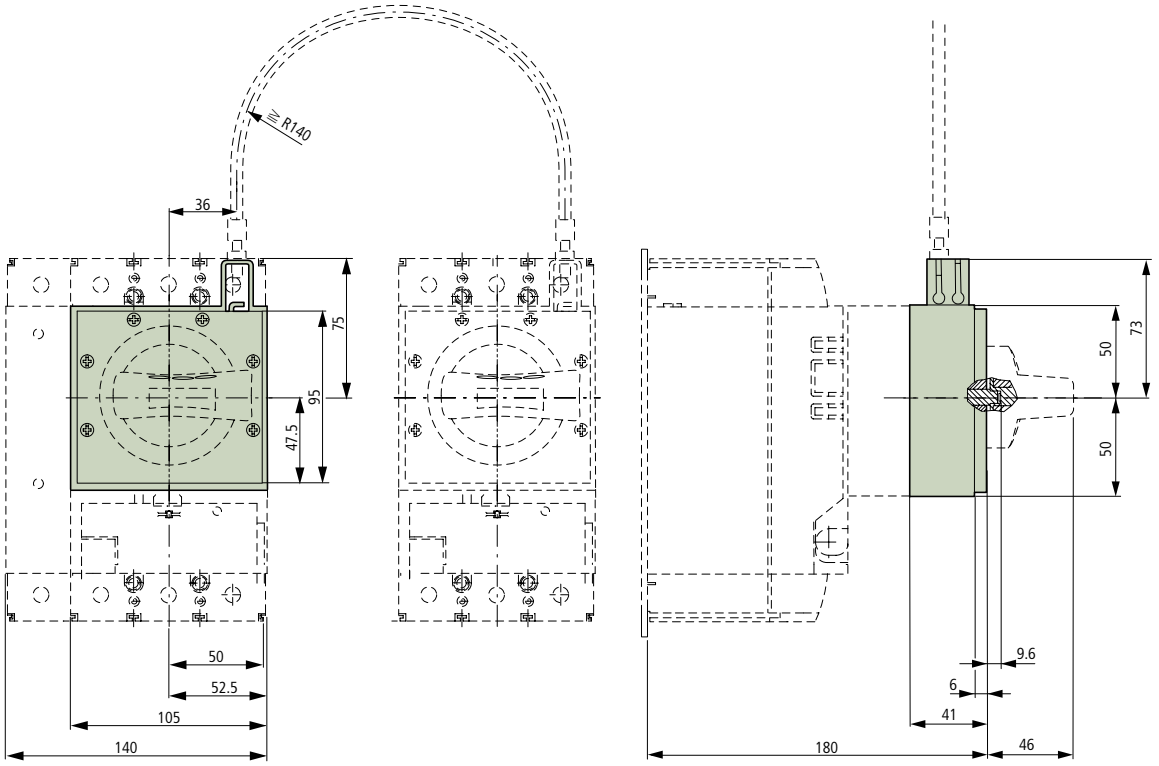
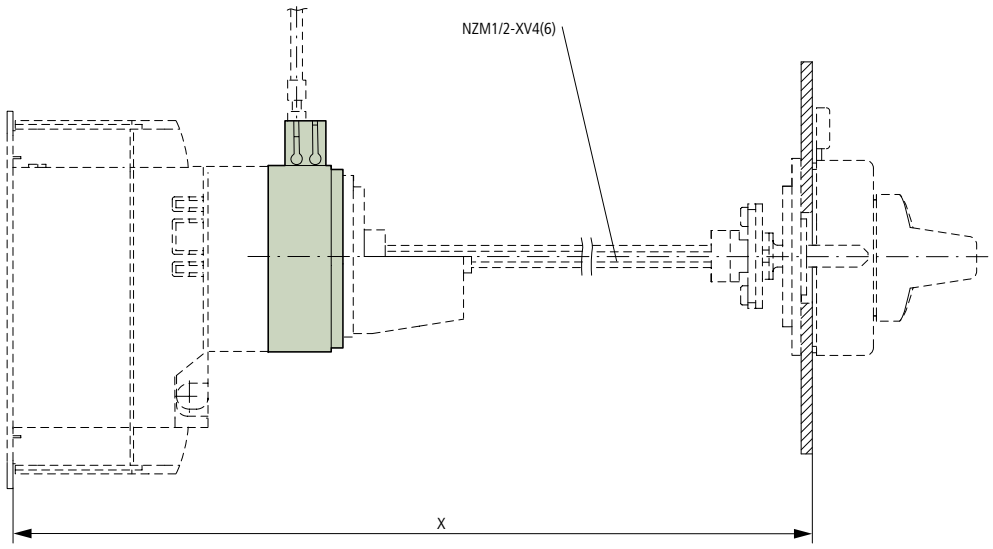
Mechanical interlock

NZM2-XMV with NZM2-XD



NZM2-XMV with NZM2-XT(V)D(V)(R)



	x
NZM1/2-XV4	280 – 400
NZM1/2-XV6	400 – 600

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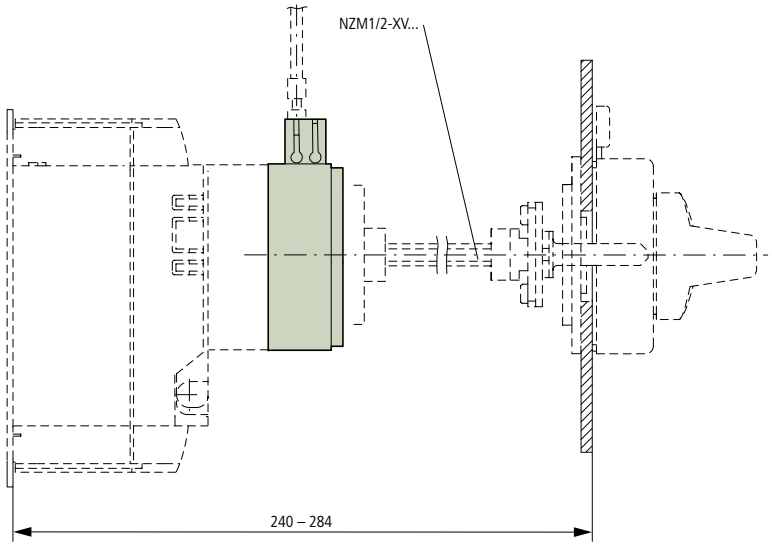
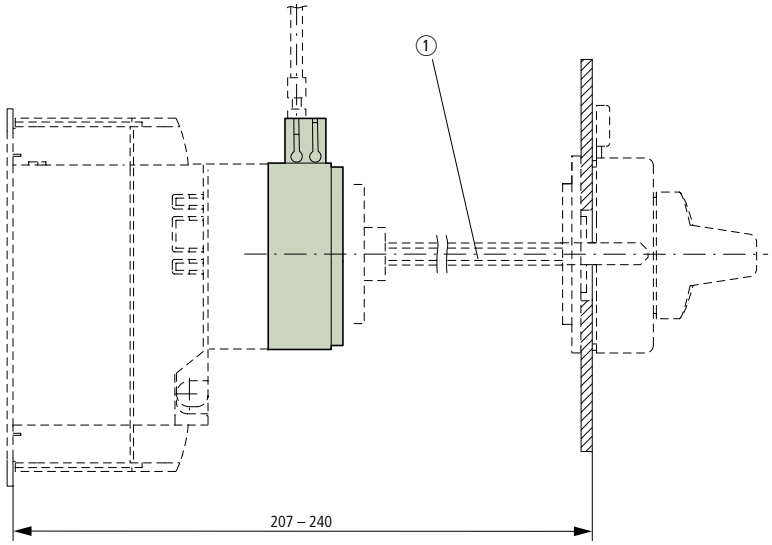
NZM2-XMV with NZM2-XT(V)D(V)(R)-60



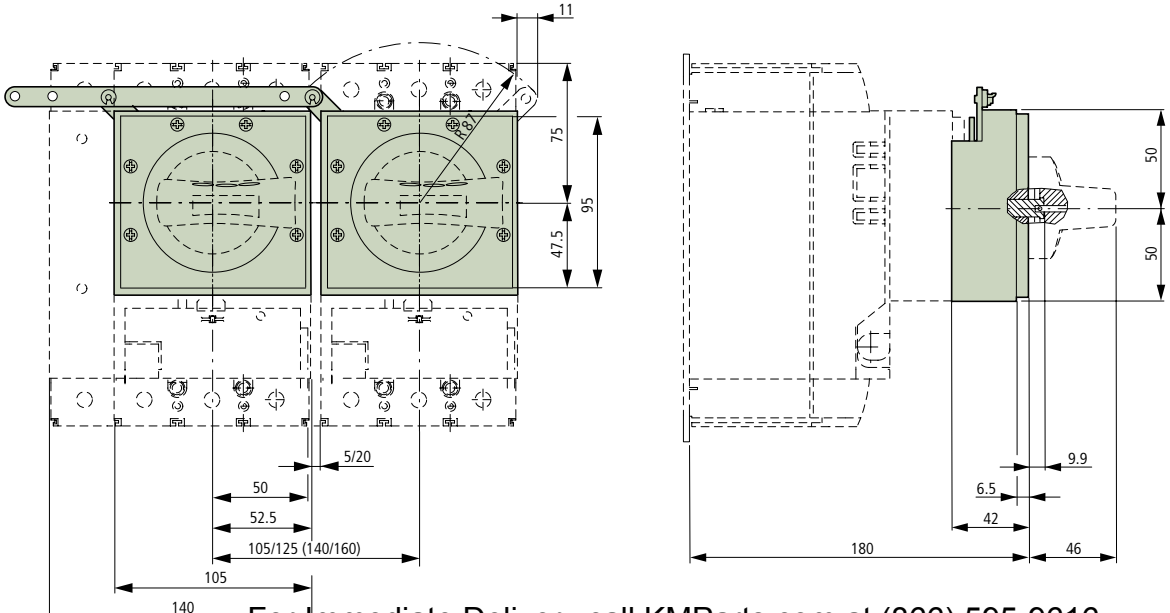
NZM2-XMV with NZM2-XT(V)D(V)(R)-0



① Special tip

Paralleling mechanism

PN2-XPA with NZM2-XD



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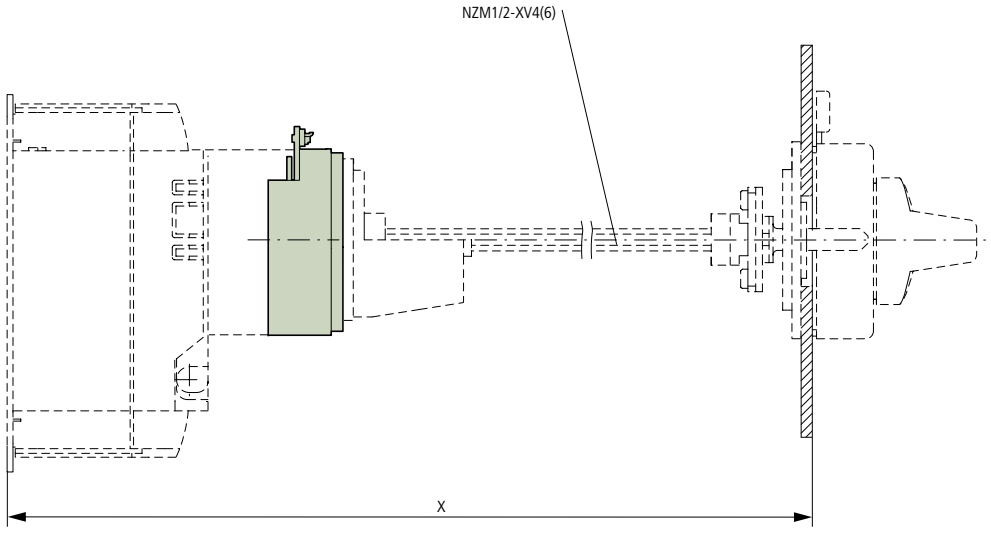
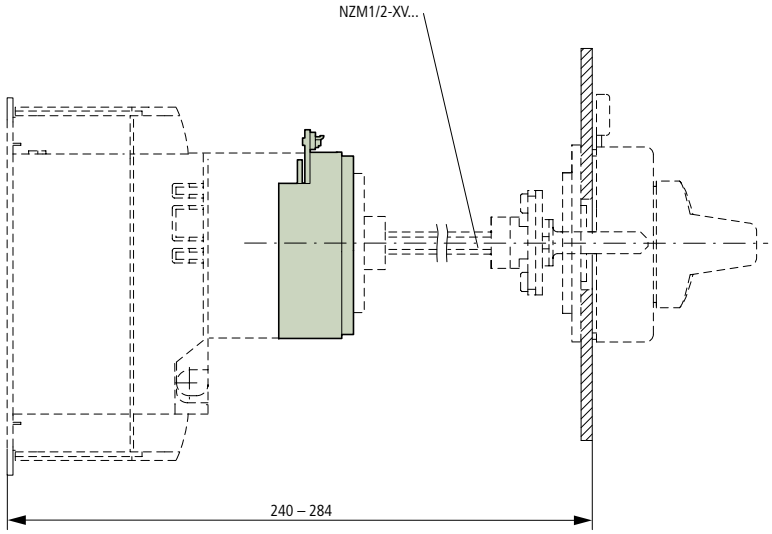
PN2-XPA with NZM2-XTD

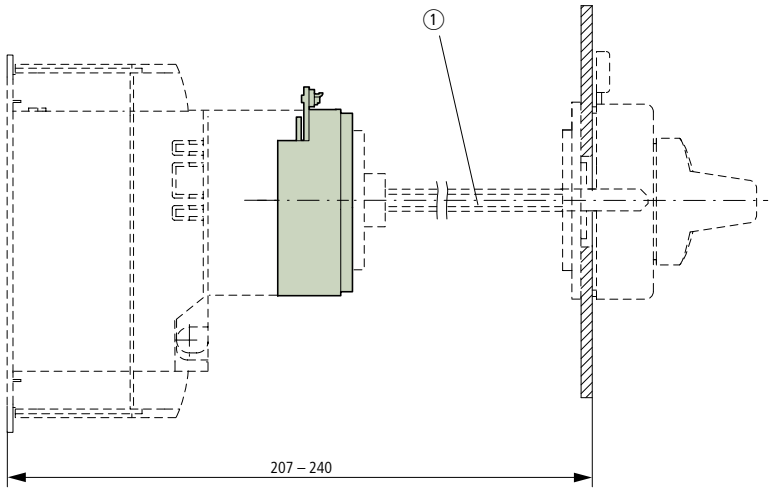


	x
NZM1/2-XV4	280 – 400
NZM1/2-XV6	400 – 600

PN2-XPA with NZM2-XTD-60



PN2-XPA with NZM2-XTD-0



① Special tip

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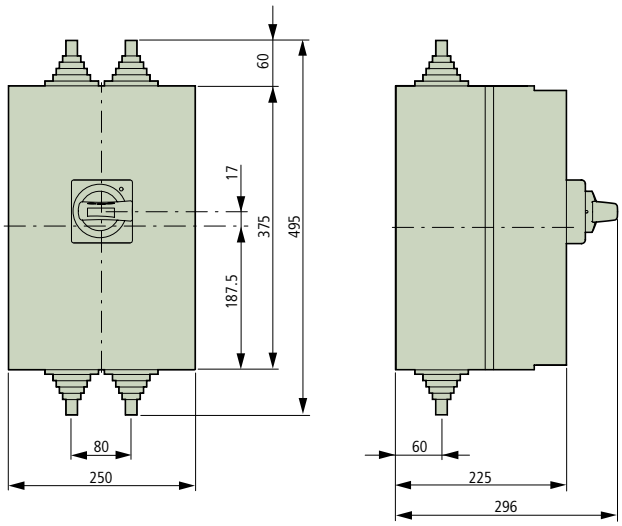
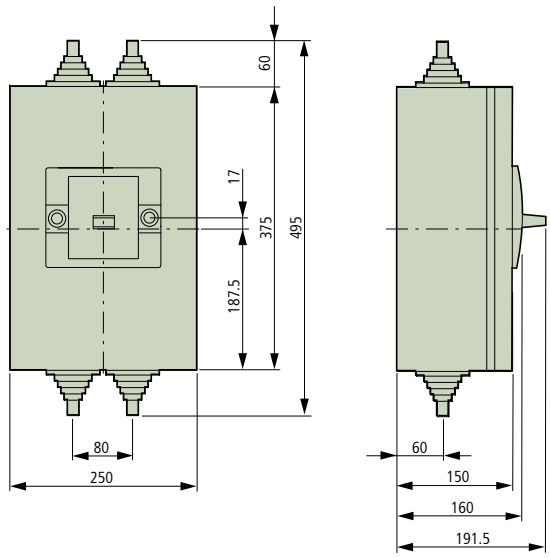
Insulated enclosures

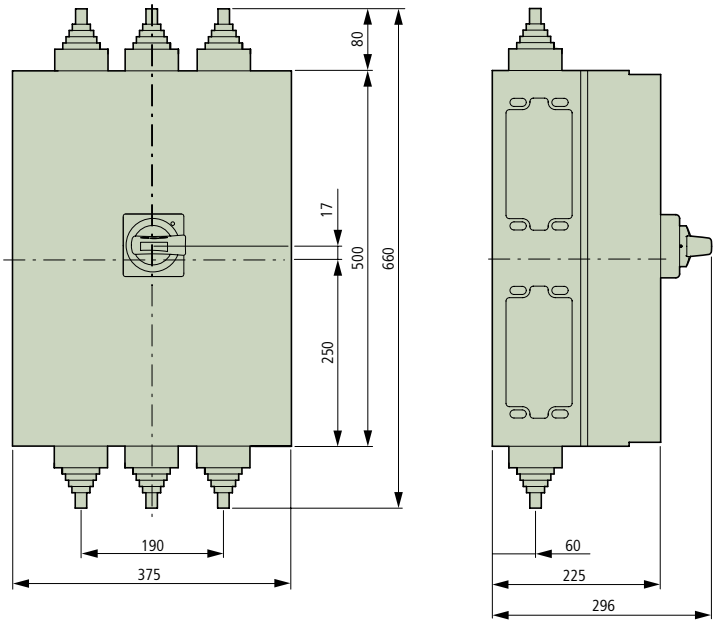
NZM2-XCI43-T...



NZM2-XCI43-BR



NZM2-XCI45-T...



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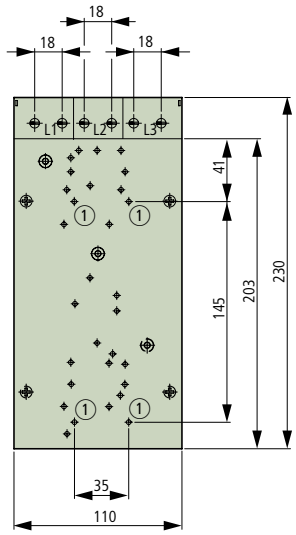
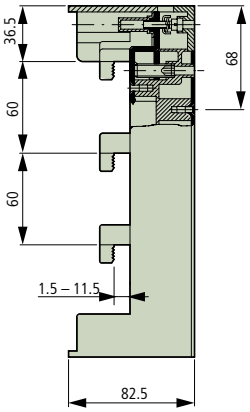
Component adapter

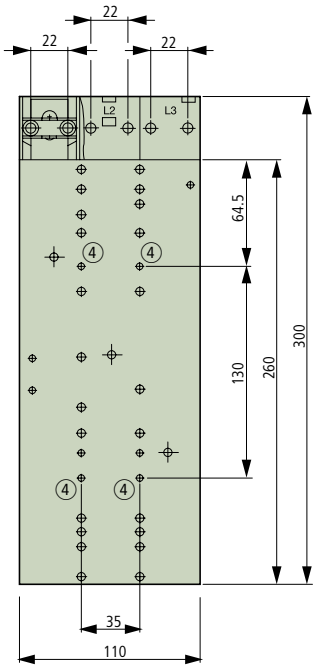
SV34381



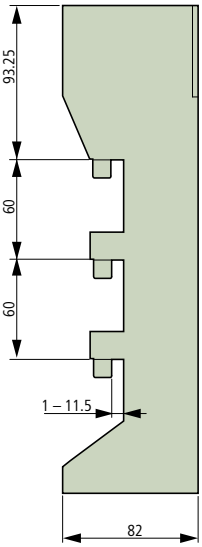
① NZM2



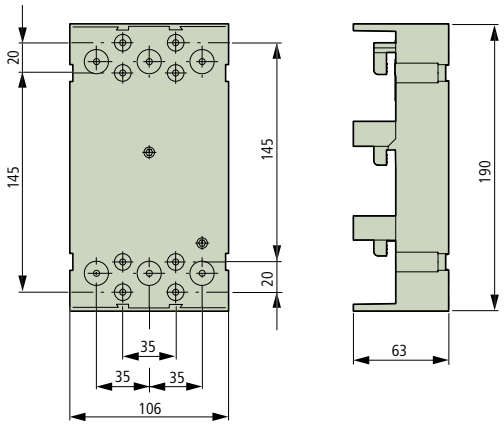
SV34372



④ NZM2



NZM2-XAD250



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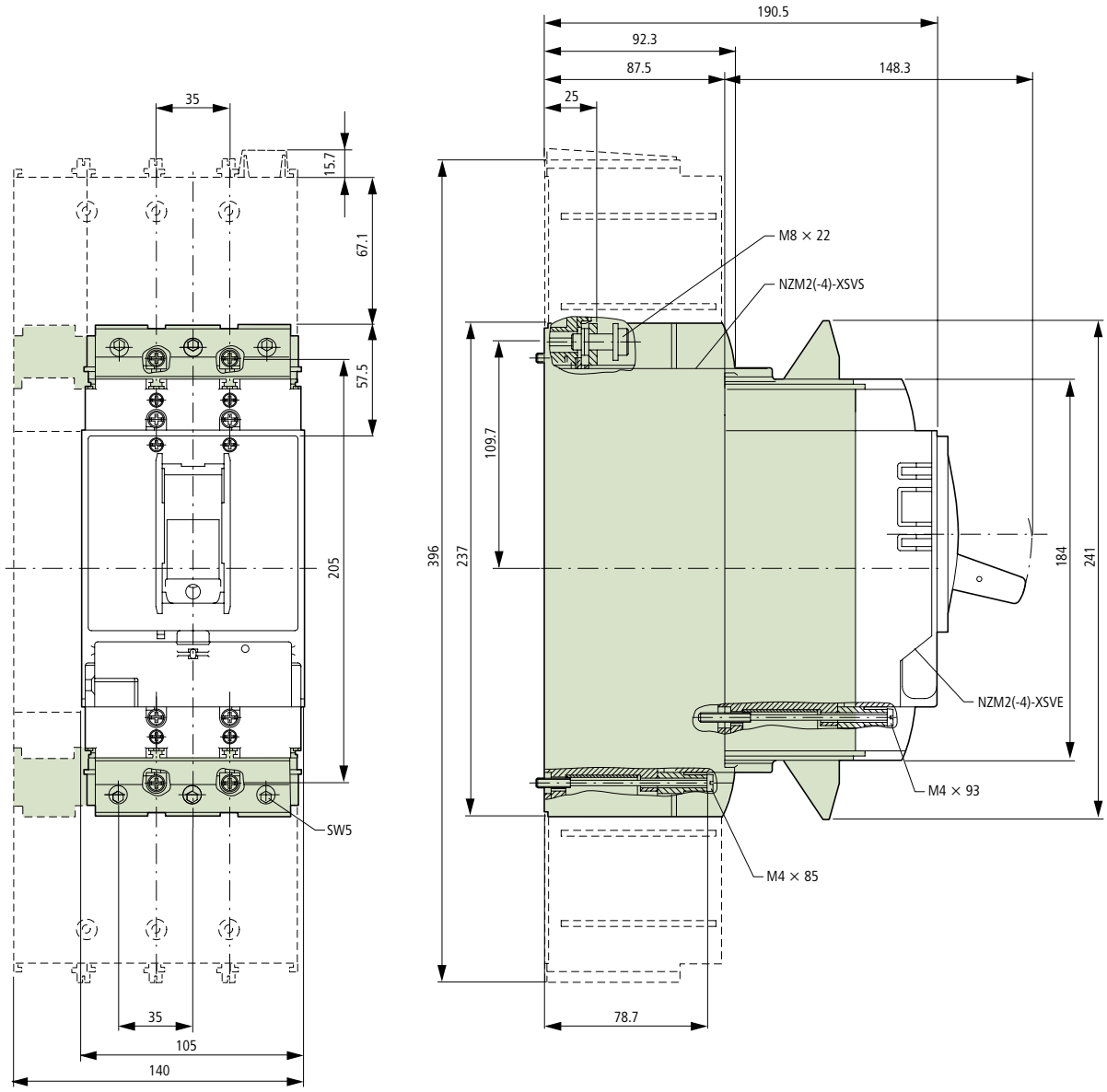
Plug-in adapter elements

+NZM2(-4)-XSV



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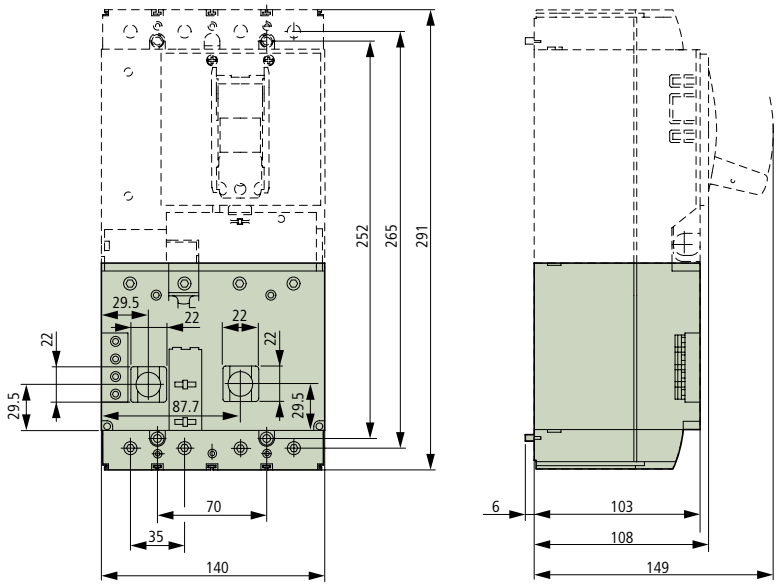
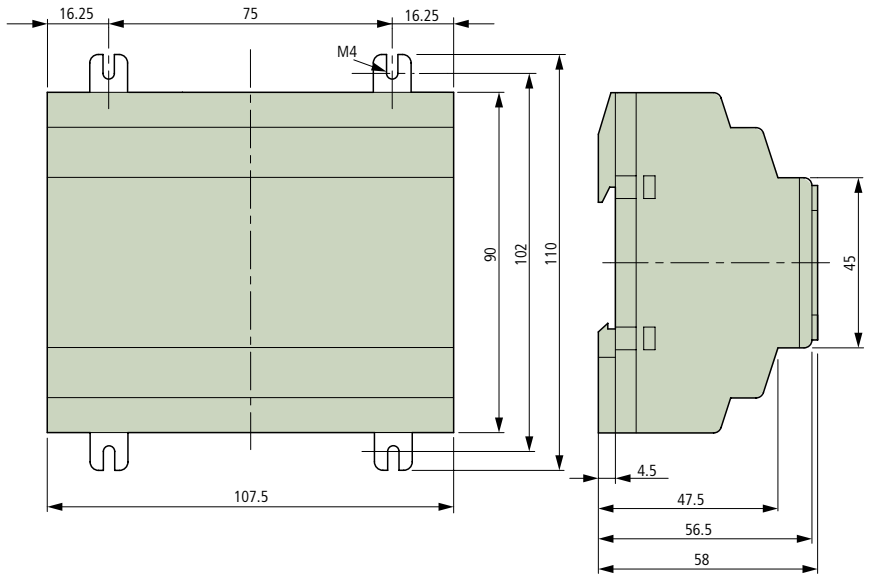
Residual current release

NZM2-4-XFI30, NZM2-4-XFI, NZM2-4-XFIA30, NZM2-4-XFIA



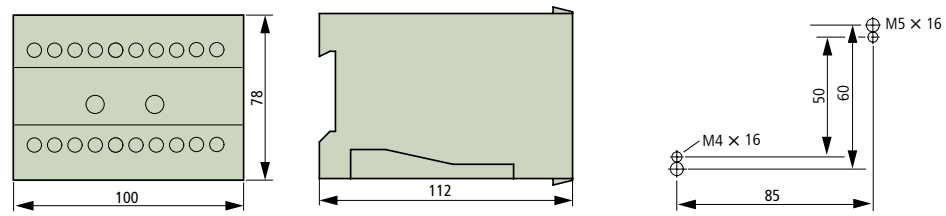
Data Management Interface (DMI Module)

NZM-XDMI612



Undervoltage release, delayed

UVU-NZM



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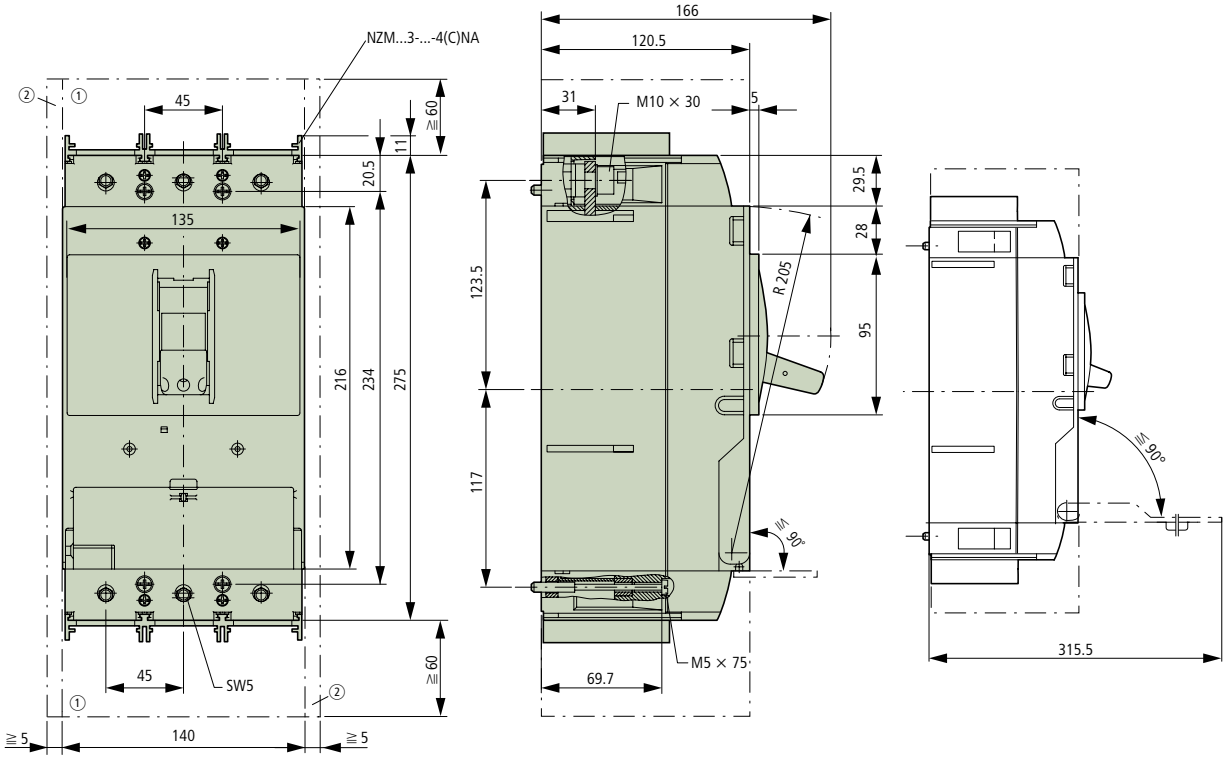
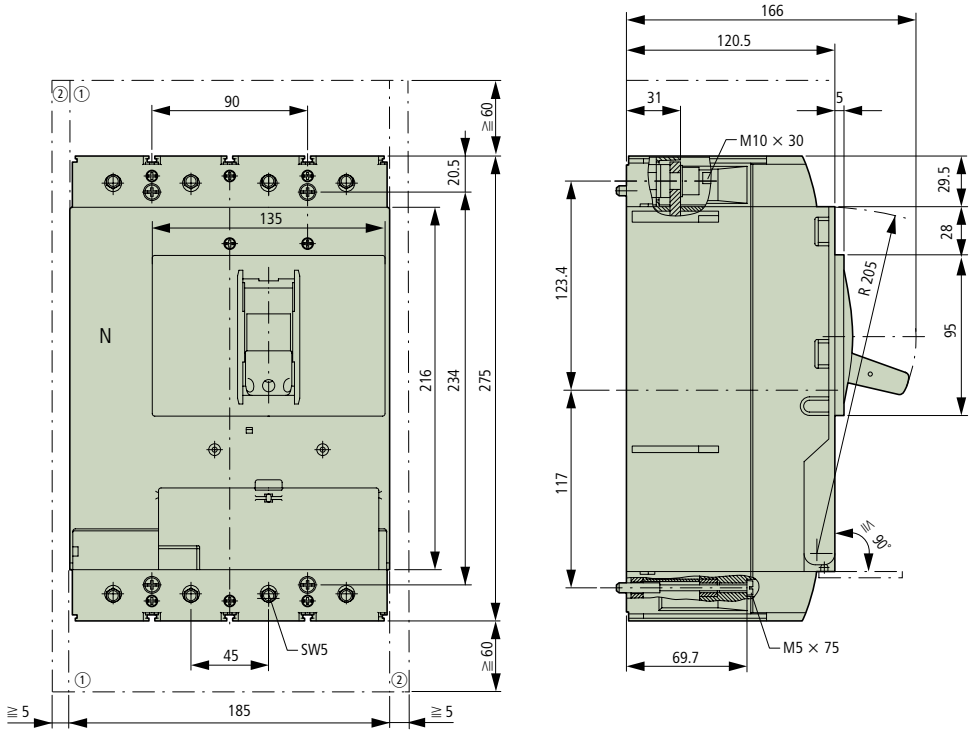
Circuit-breaker, switch-disconnector, 3-pole
NZMN3, NZMH3, NZML3, PN3, N3, NS3



① Blow out area, minimum clearance to other parts≧ 60 mm
② Minimum clearance from adjacent parts ≧ 5 mm

Circuit-breaker, switch-disconnector, 4-pole
NZMN3-4, NZMH3-4, NZML3-4, PN3-4, N3-4



① Blow out area, minimum clearance to other parts≧ 60 mm
② Minimum clearance from adjacent parts ≧ 5 mm

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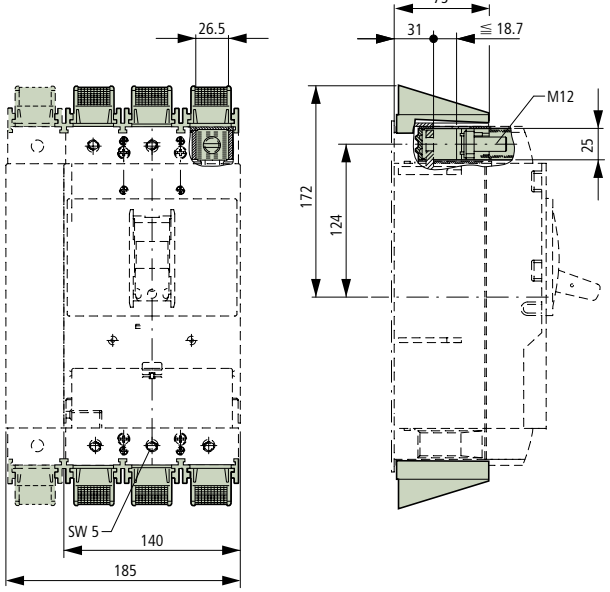
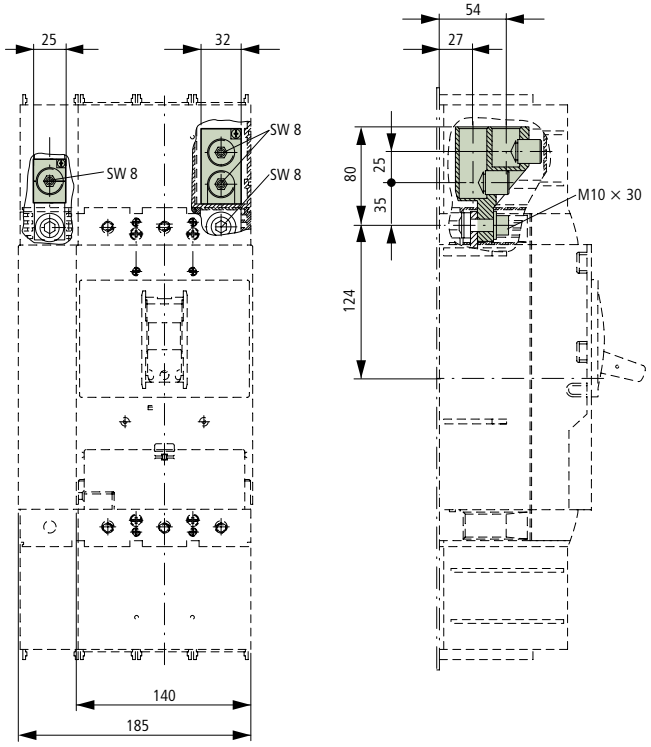
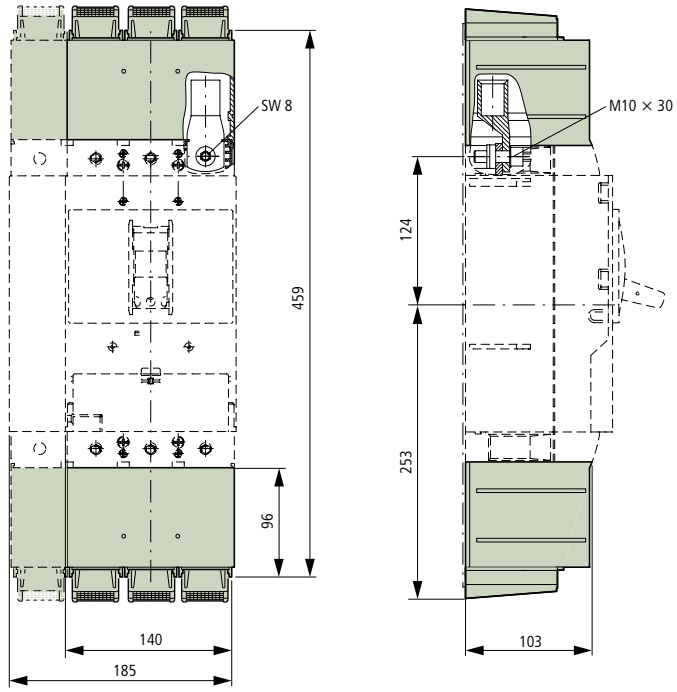
Box terminal
NZM3(-4)-XKC(O)(U)
IP2X protection against contact with
NZM3(-4)-XIPK



Tunnel terminal
NZM3(-4)-XKA1(2)



Cover for screw terminals
NZM3(-4)-XKSA
Cable lug
NZM3-XKS185
IP2X protection against contact with
NZM3(-4)-XIPA



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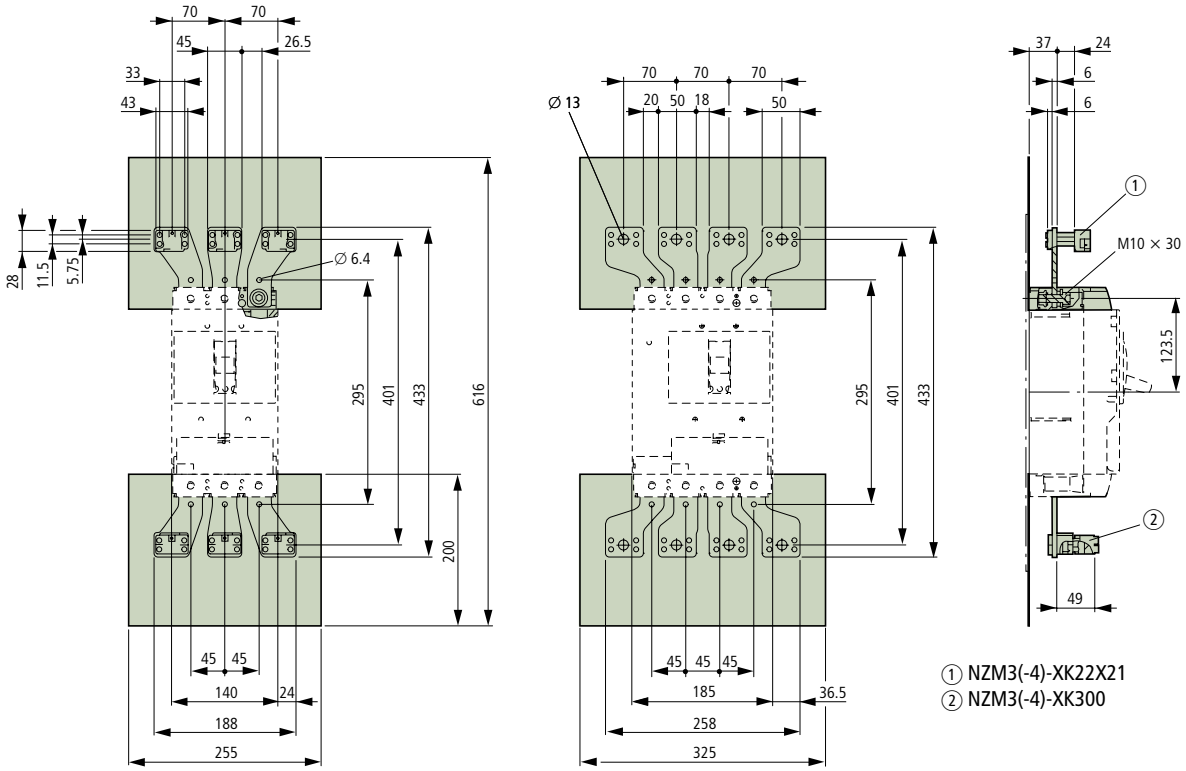
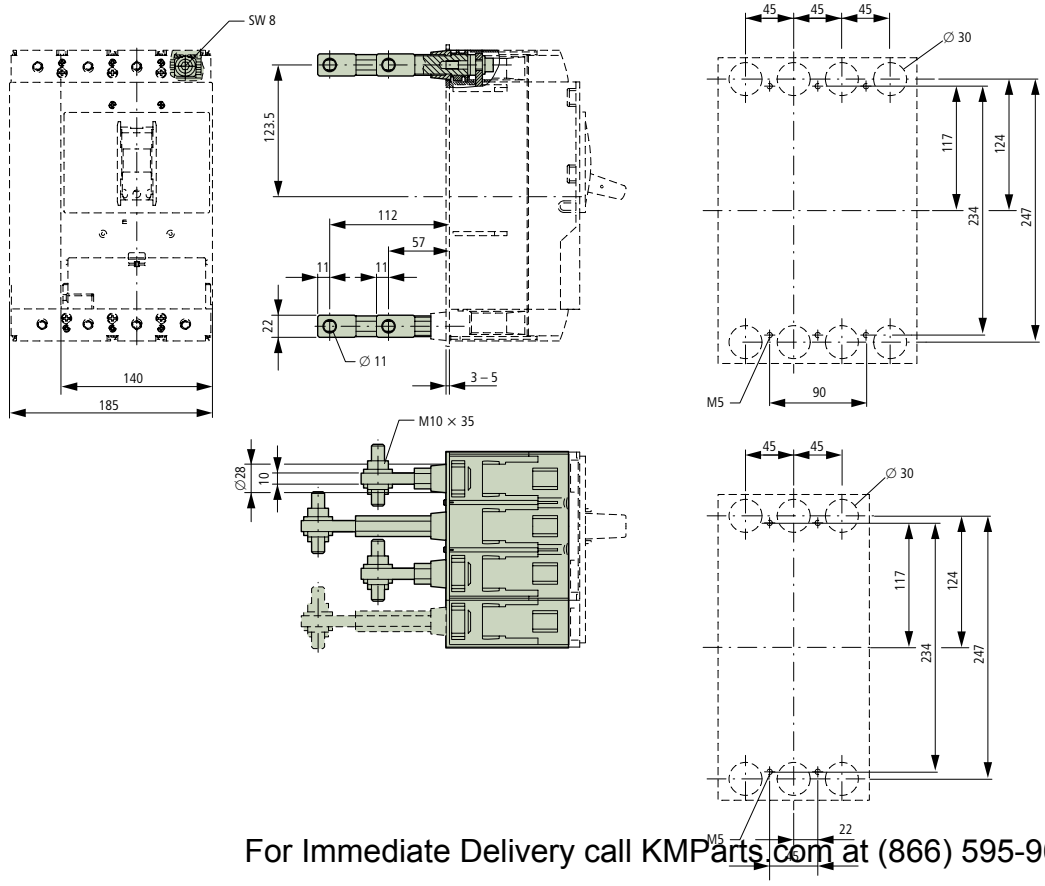
Connection width extension
NZM3(-4)-XKV70
Terminals
NZM3(-4)-XK22X21
NZM3(-4)-XK300



Note: Length with phase isolators approx. 599 mm

Connection on rear
(+)NZM3(-4)-XKR(O)(U)



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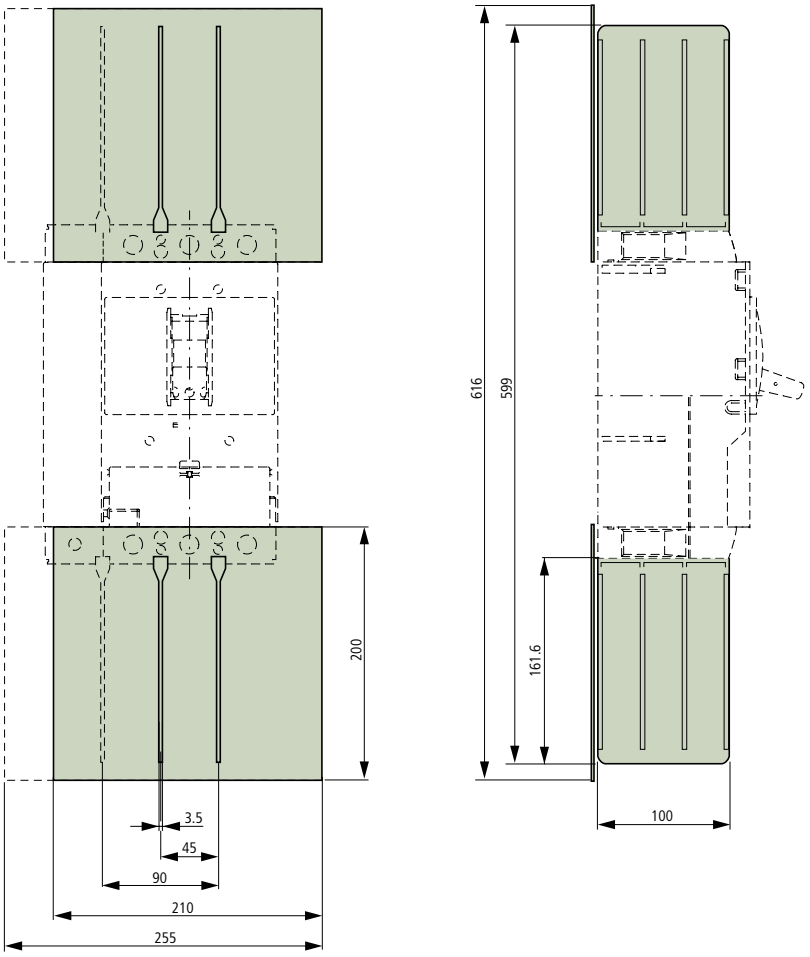
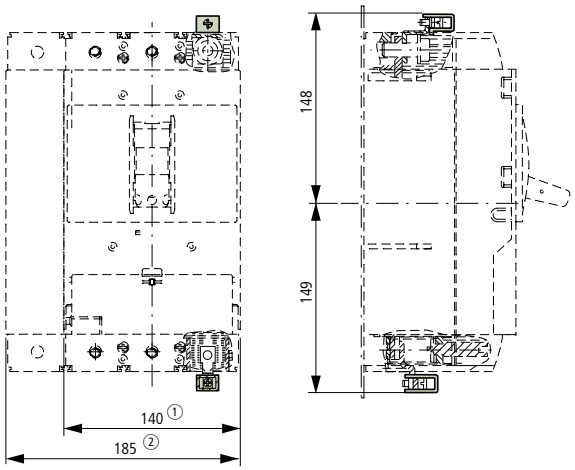
Phase isolator

NZM3(-4)-XKP



Control circuit terminal

NZM3/4-XSTS
NZM-XSTK



① 3-pole
② 4-pole

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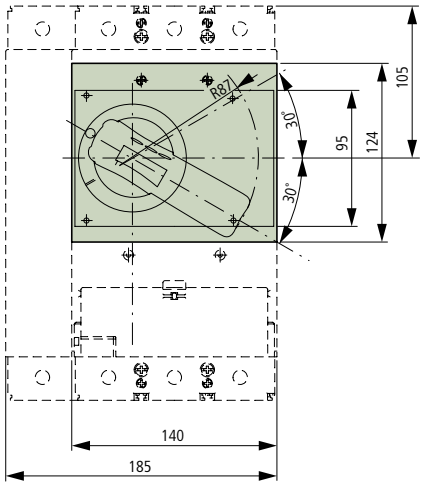
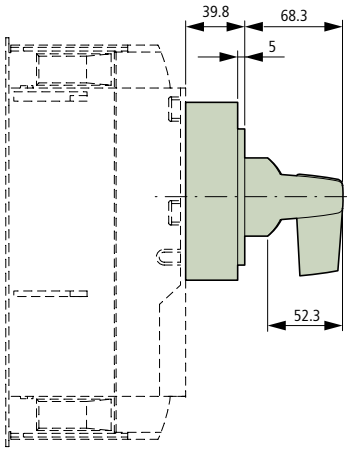
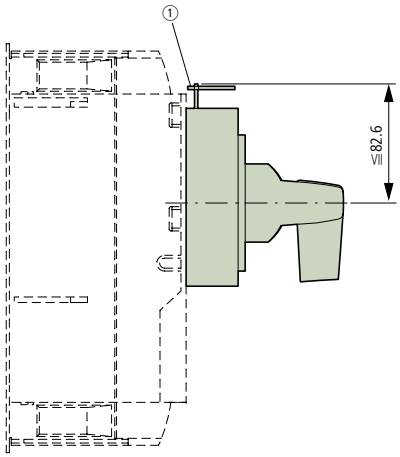
Rotary handle on circuit-breaker

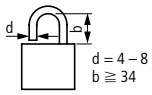
NZM3-XD





NZM3-XDV(R)

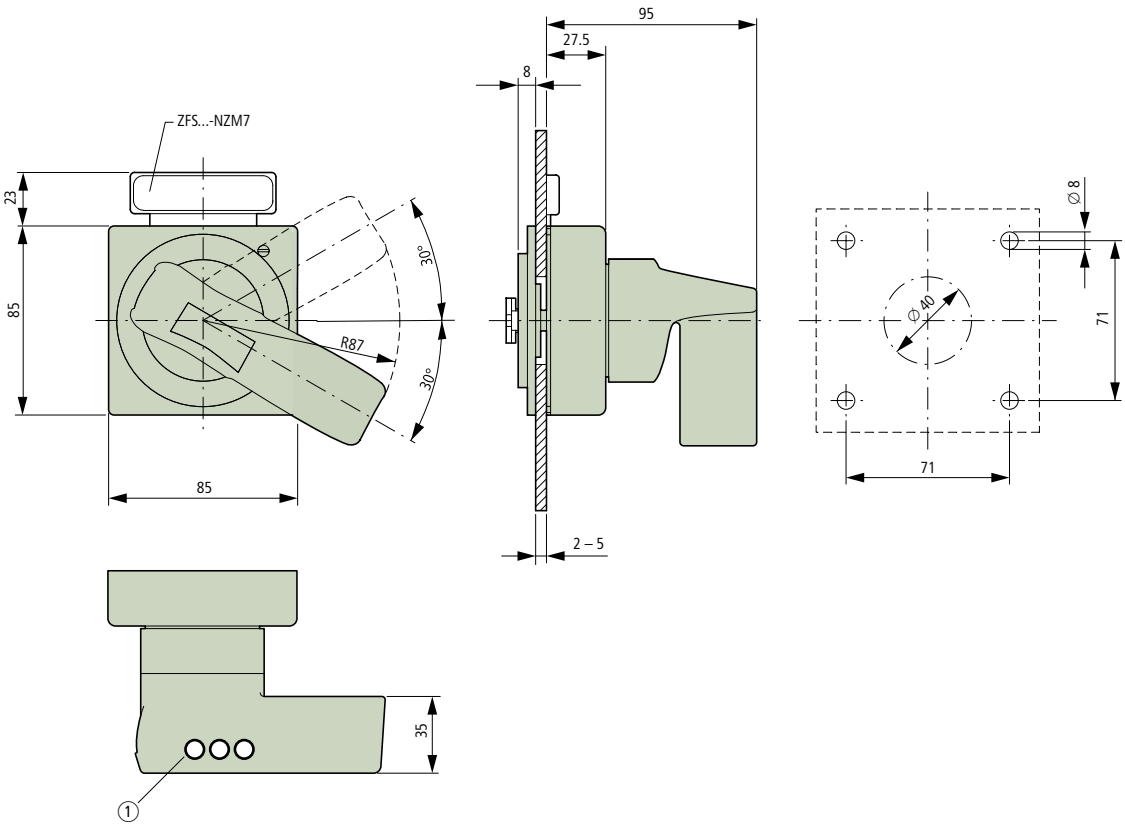


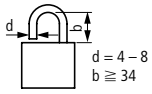


① Up to 3 padlocks

Door coupling rotary handle

NZM3-XT(V)D(V)(R)





① Up to 3 padlocks

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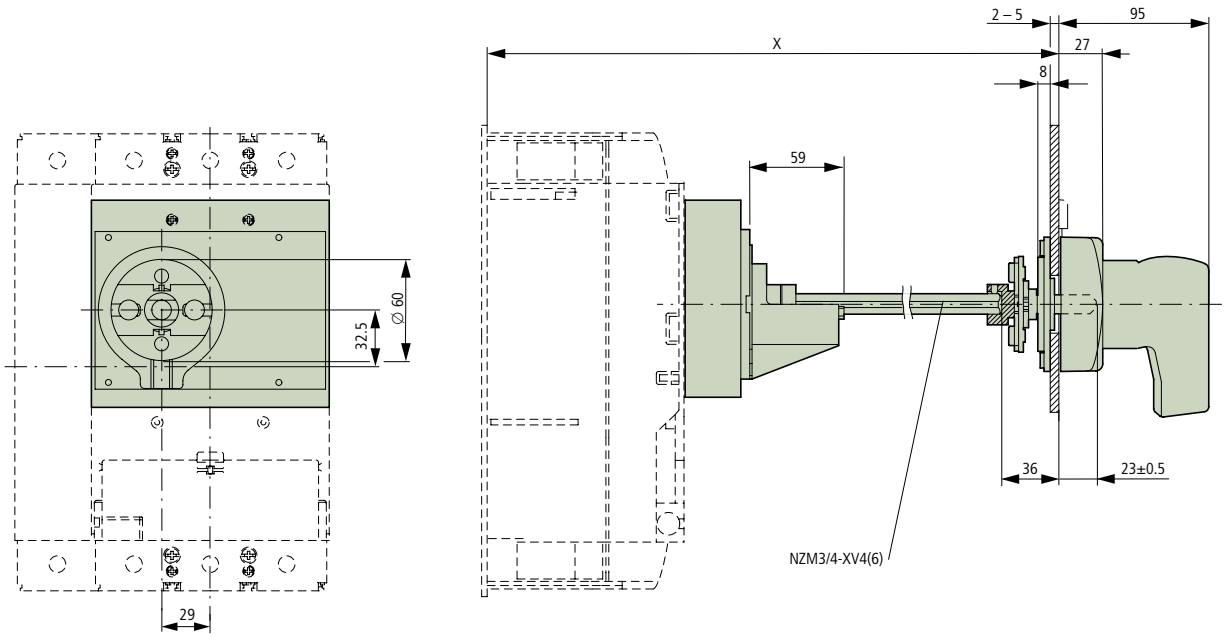
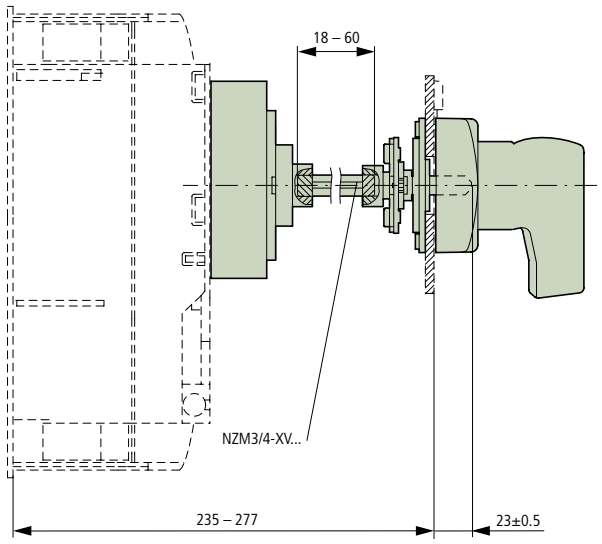
Door coupling rotary handle with extension shaft

NZM3-XT(V)D(V)(R)(-NA)
NZM3/4-XV4(6)

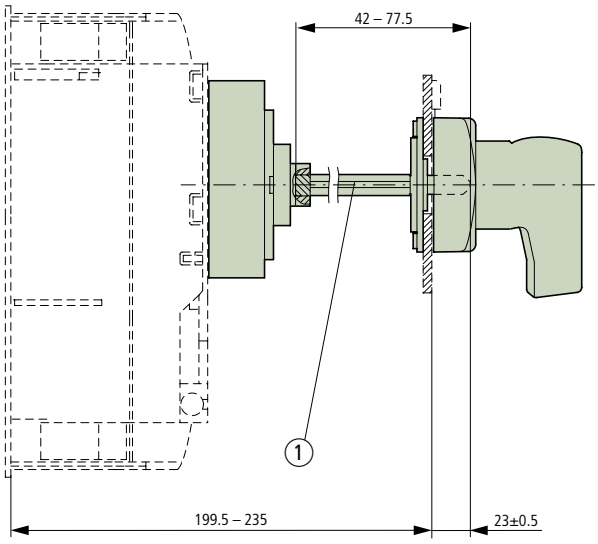


	x
NZM3/4-XV4	270 – 400
NZM3/4-XV6	400 – 600

NZM3-XT(V)D(V)(R)-60(-NA)

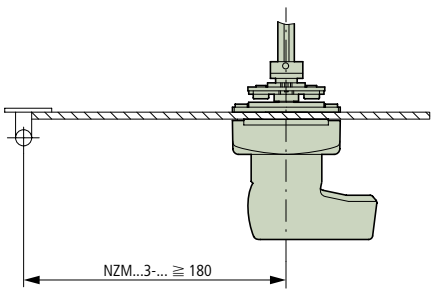


NZM3-XT(V)D(V)(R)-0(-NA)



① Special tip

Minimum door coupling rotary handle clearance from door pivot point



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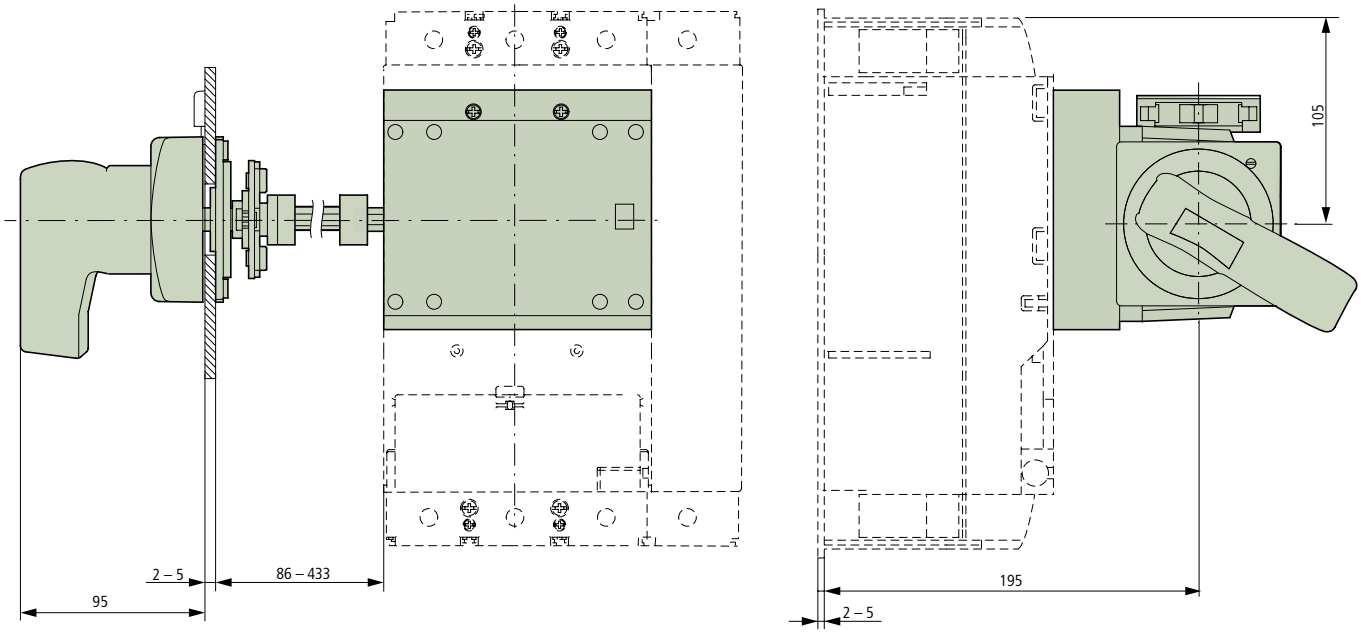
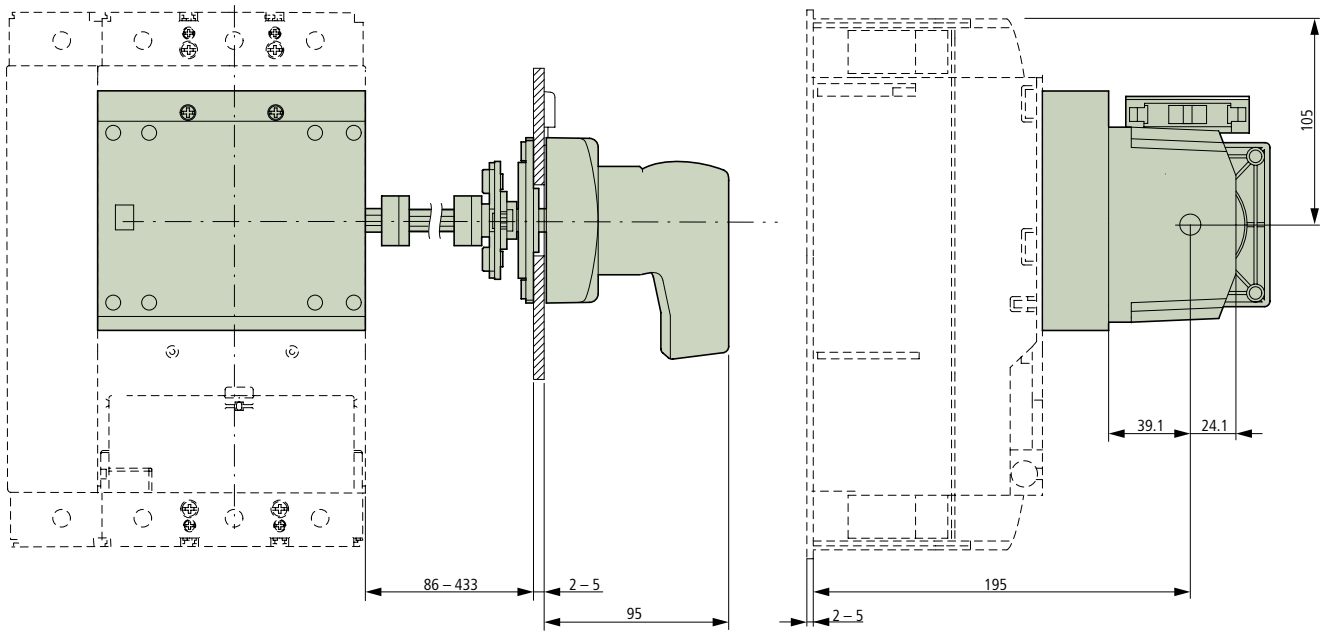
Main switch assembly kit for side wall installation

NZM3-XS(R)(F)-L

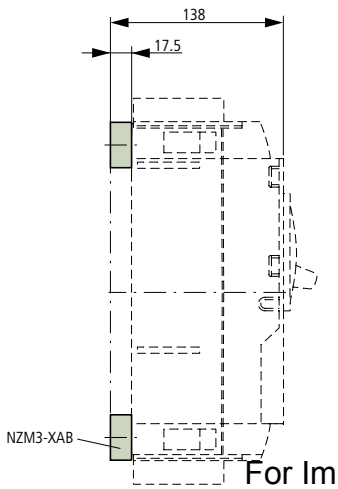


NZM3-XS(R)(F)-R



Spacers

NZM3-XAB



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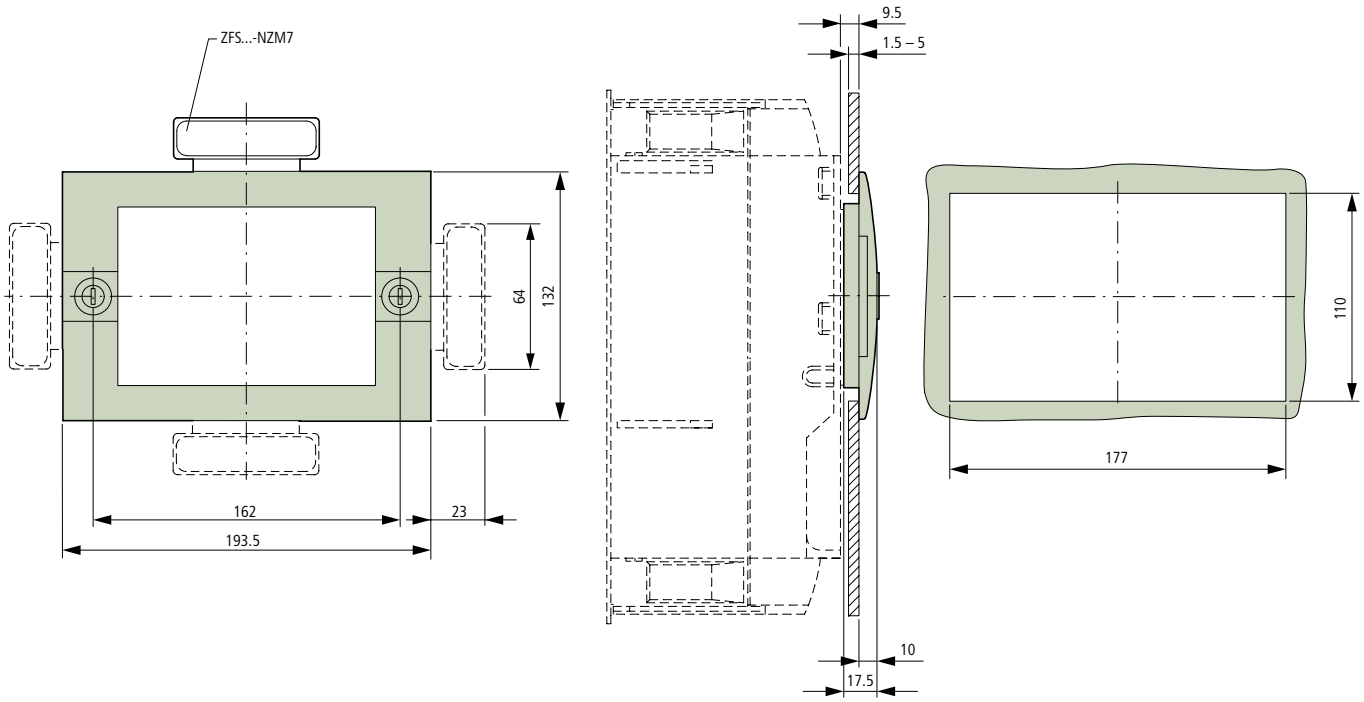
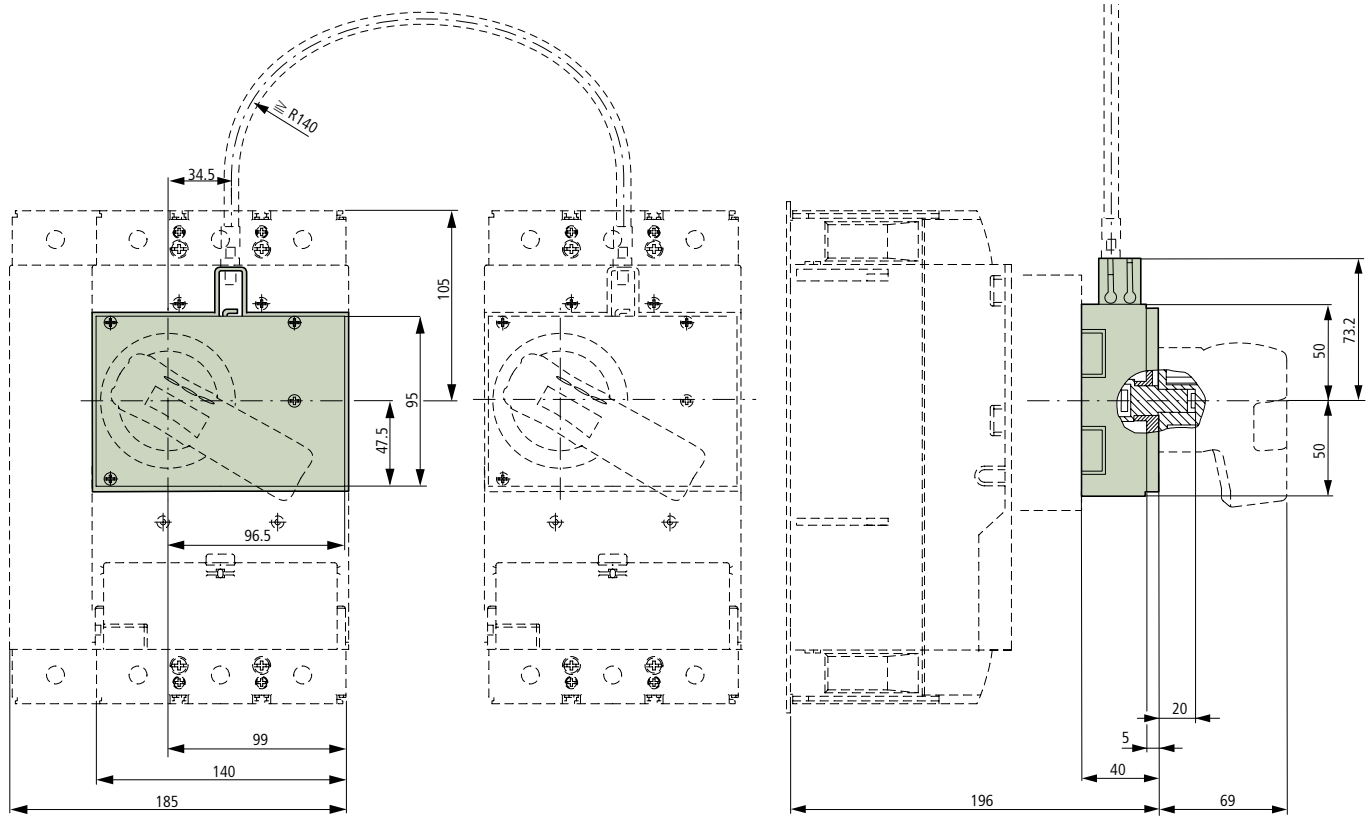
Insulating surround

NZM3-XBR



Mechanical interlock

NZM3-XMV with NZM3-XD



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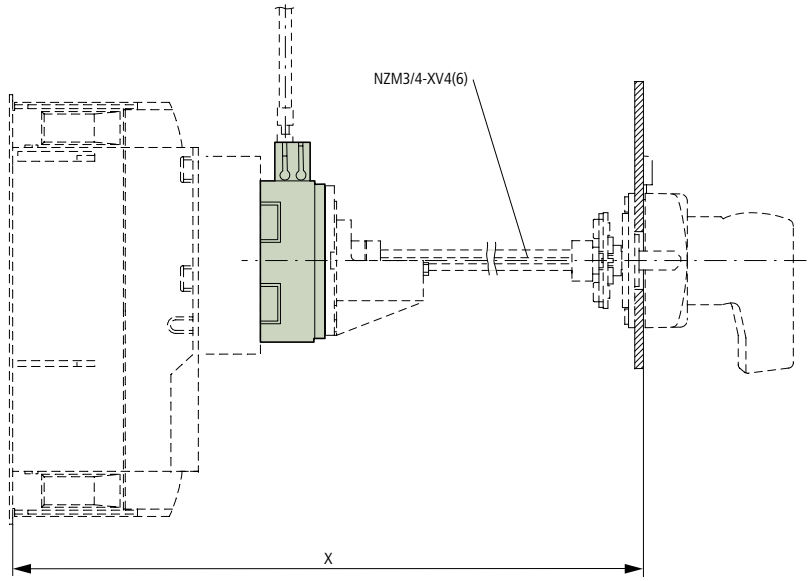
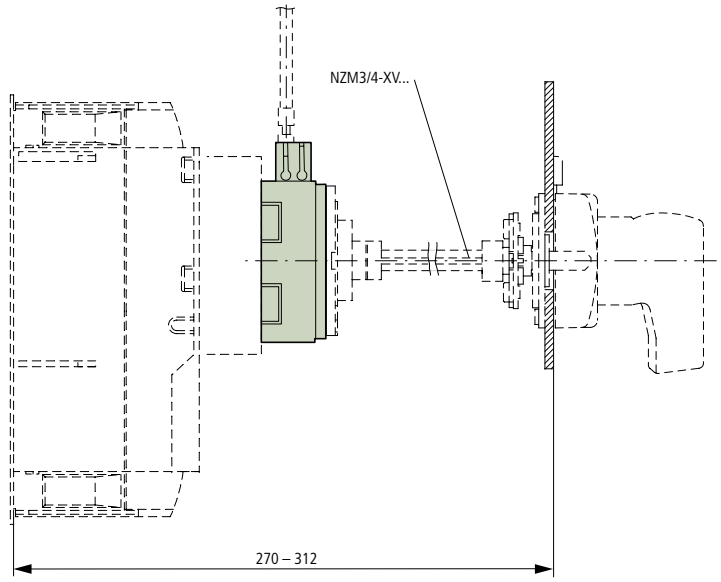
NZM3-XMV with NZM3-XT(V)D(V)(R)

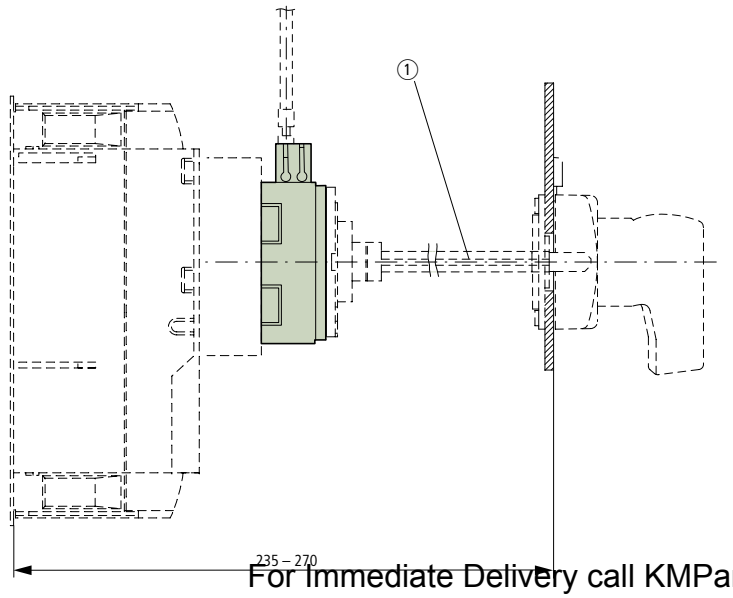


	x
NZM3/4-XV4	305 – 400
NZM3/4-XV6	400 – 600

NZM3-XMV with NZM3-XT(V)D(V)(R)-60



NZM3-XMV with NZM3-XT(V)D(V)(R)-0



① Special tip

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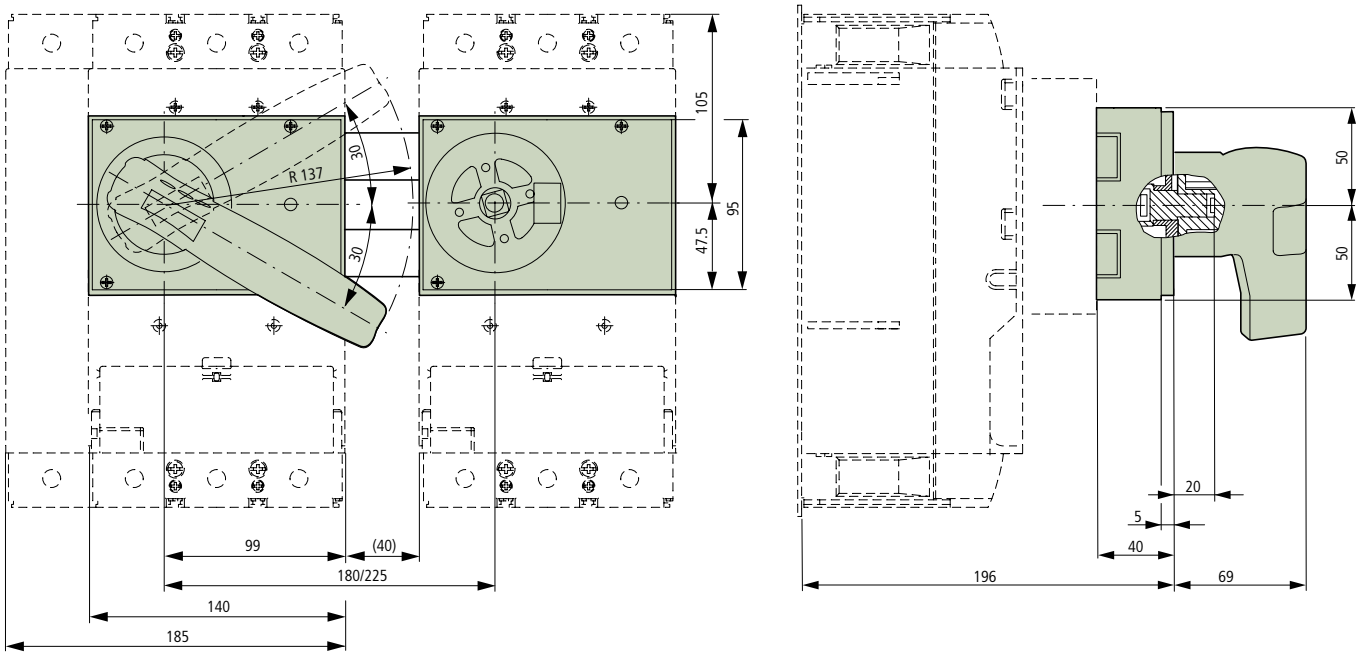
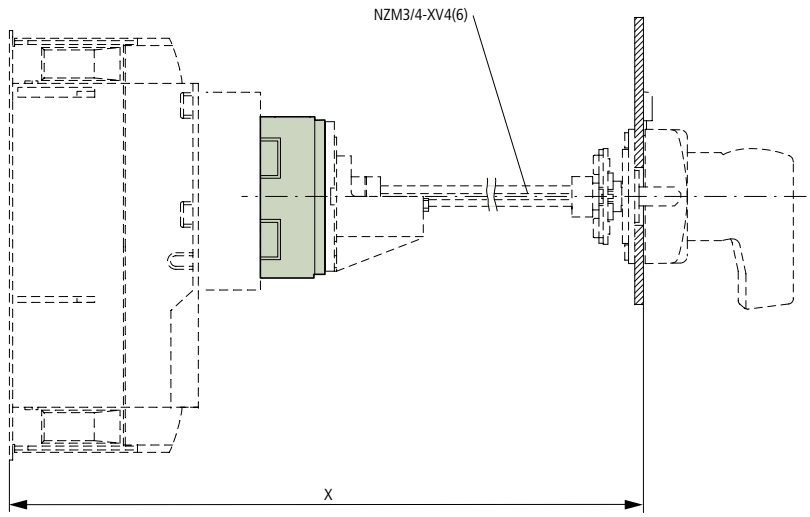
Paralleling mechanism

PN3-XPA with NZM3-XD

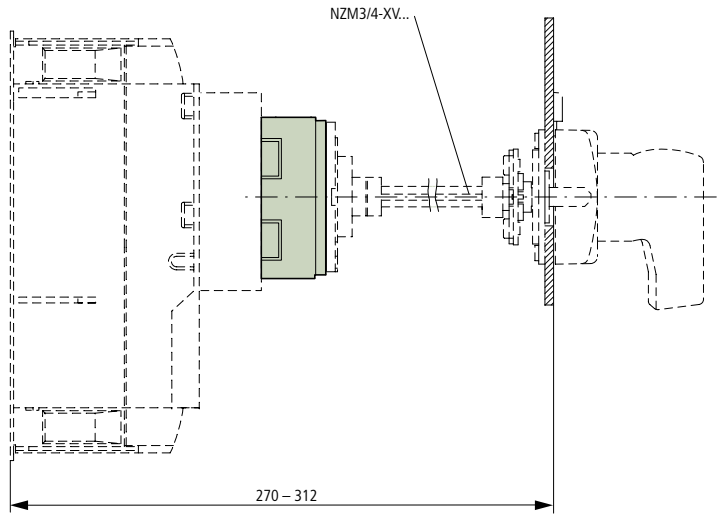


PN3-XPA with NZM3-XTD



	x
NZM3/4-XV4	305 – 400
NZM3/4-XV6	400 – 600

PN3-XPA with NZM3-XTD-60



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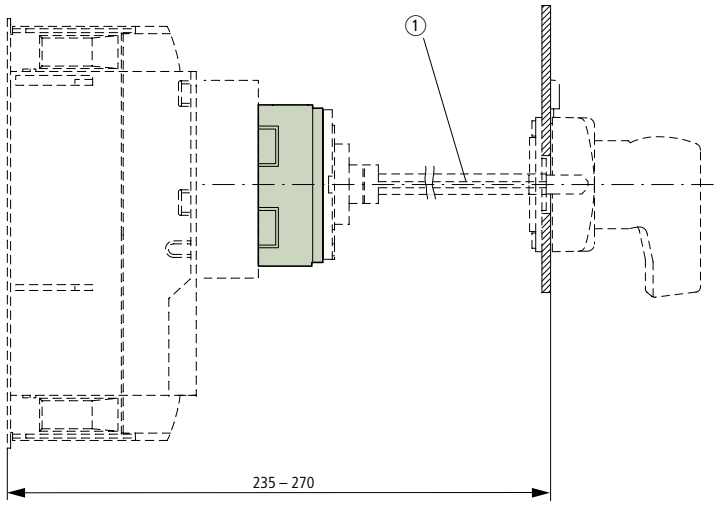
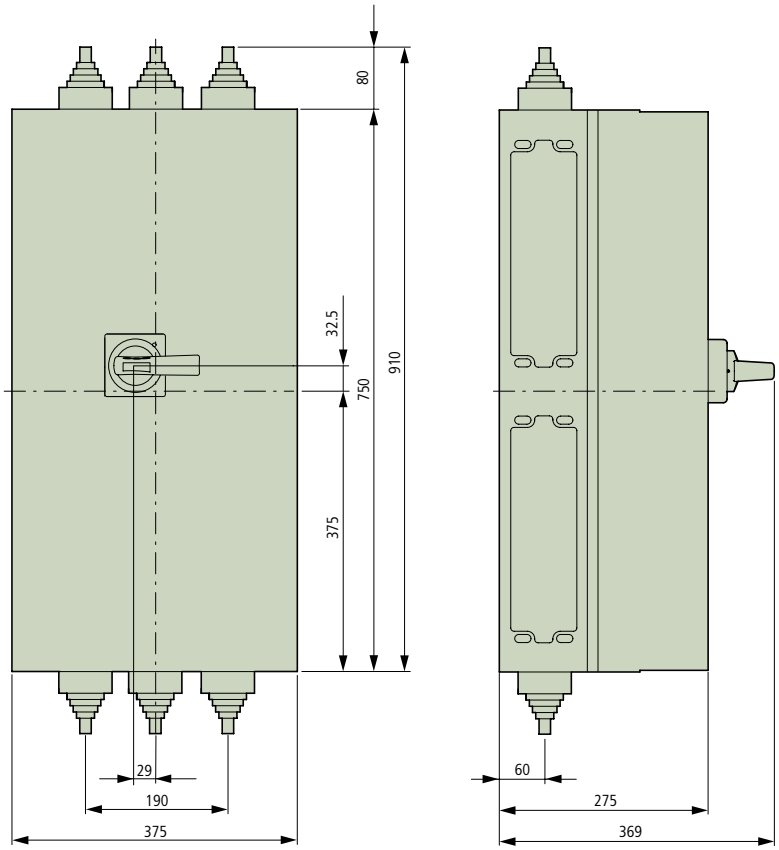
PN3-XPA with NZM3-XTD-0

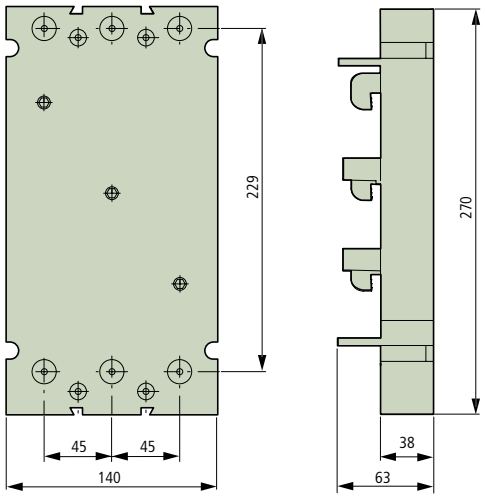


① Special tip

Insulated enclosures
NZM3-XCI48-T...



Component adapter
NZM3-XAD550



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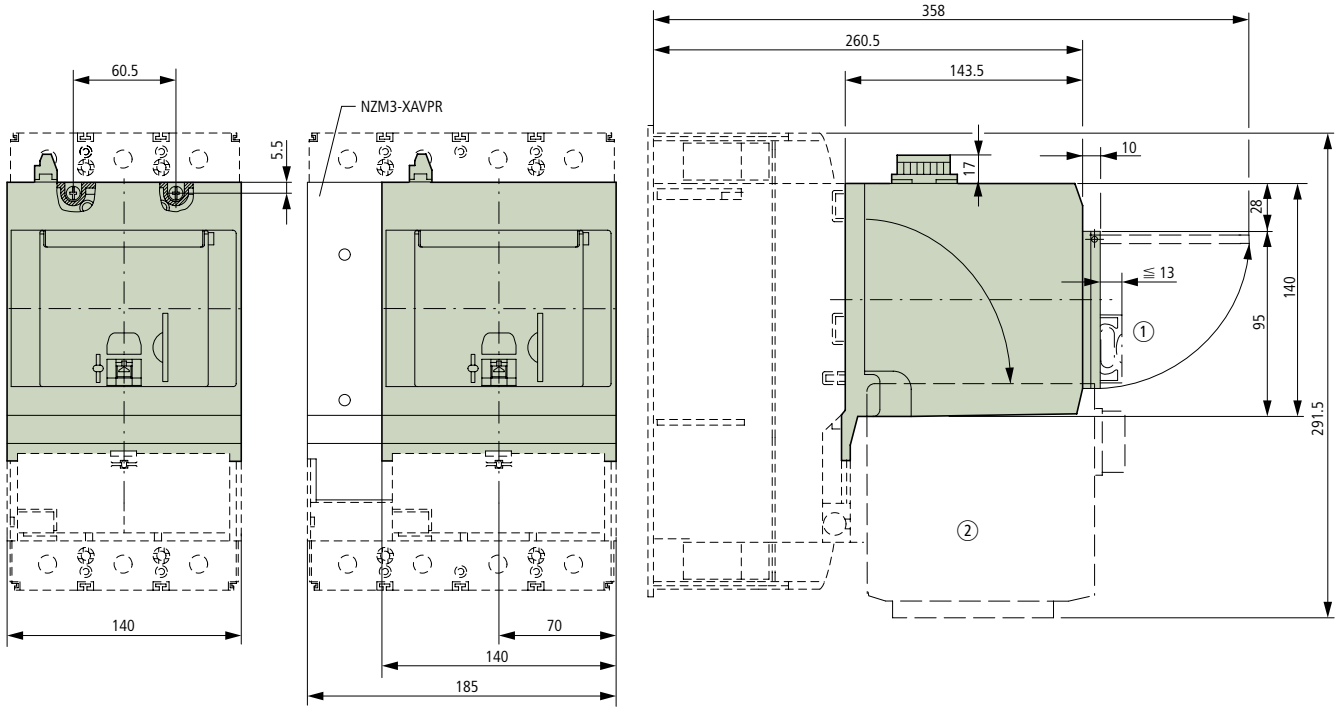
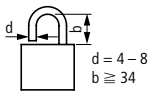
Remote operator

NZM3-XR...

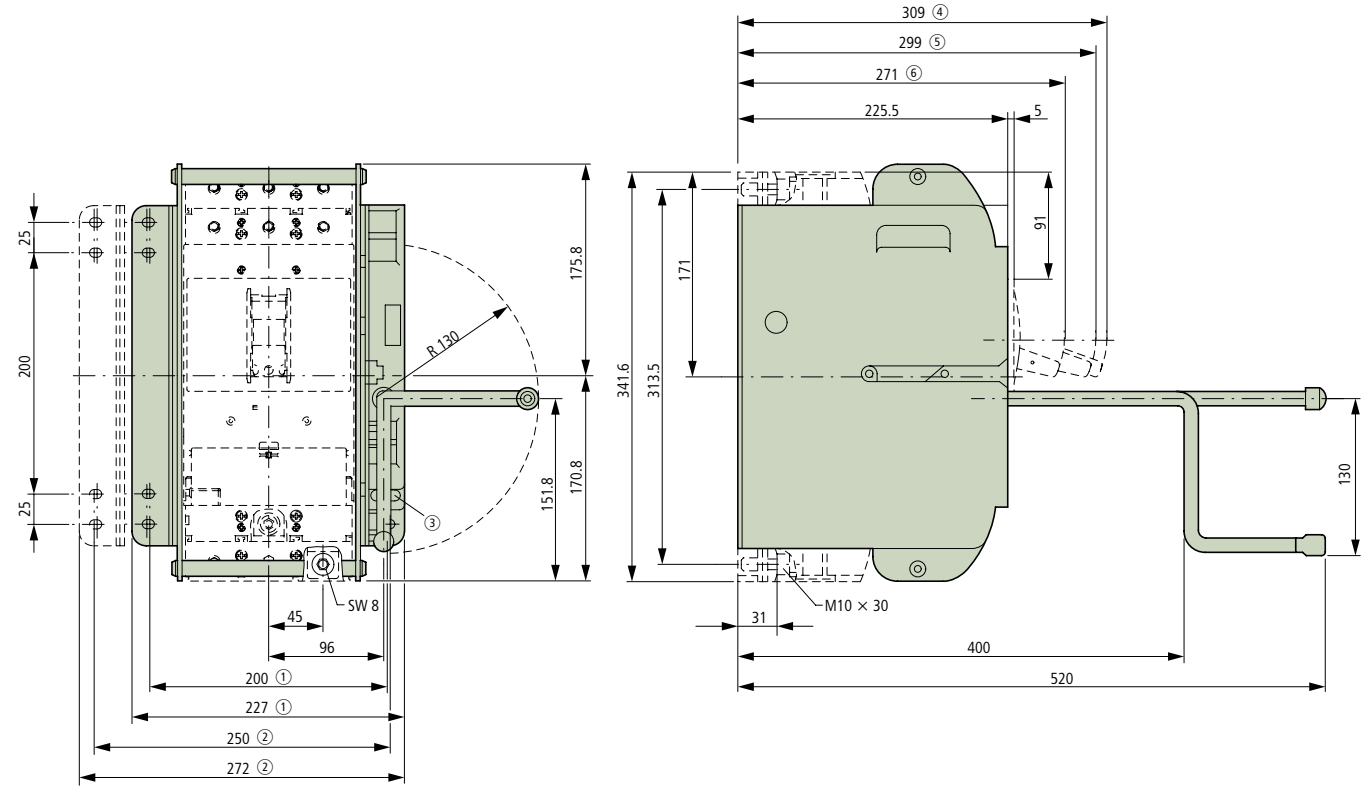




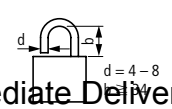
① Up to 3 padlocks
② Remote operator folded

Withdrawable unit

+NZM3(-4)-XAV



① 3-pole
② 4-pole
③ Up to 3 padlocks
④ disconnected
⑤ test
⑥ connected



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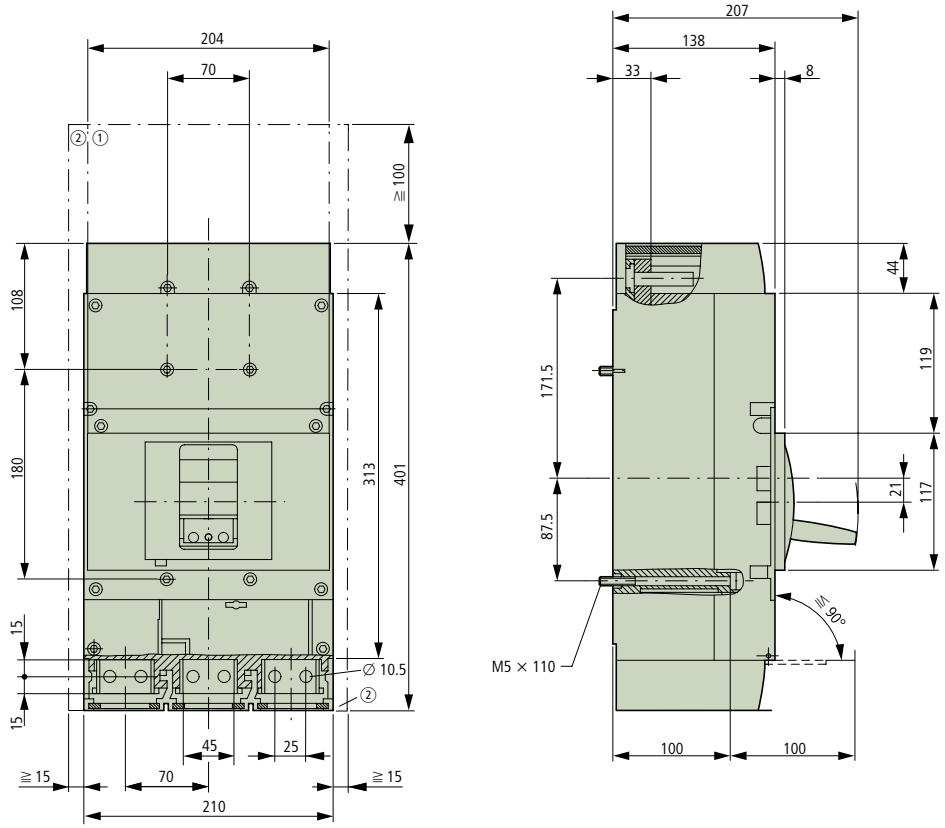
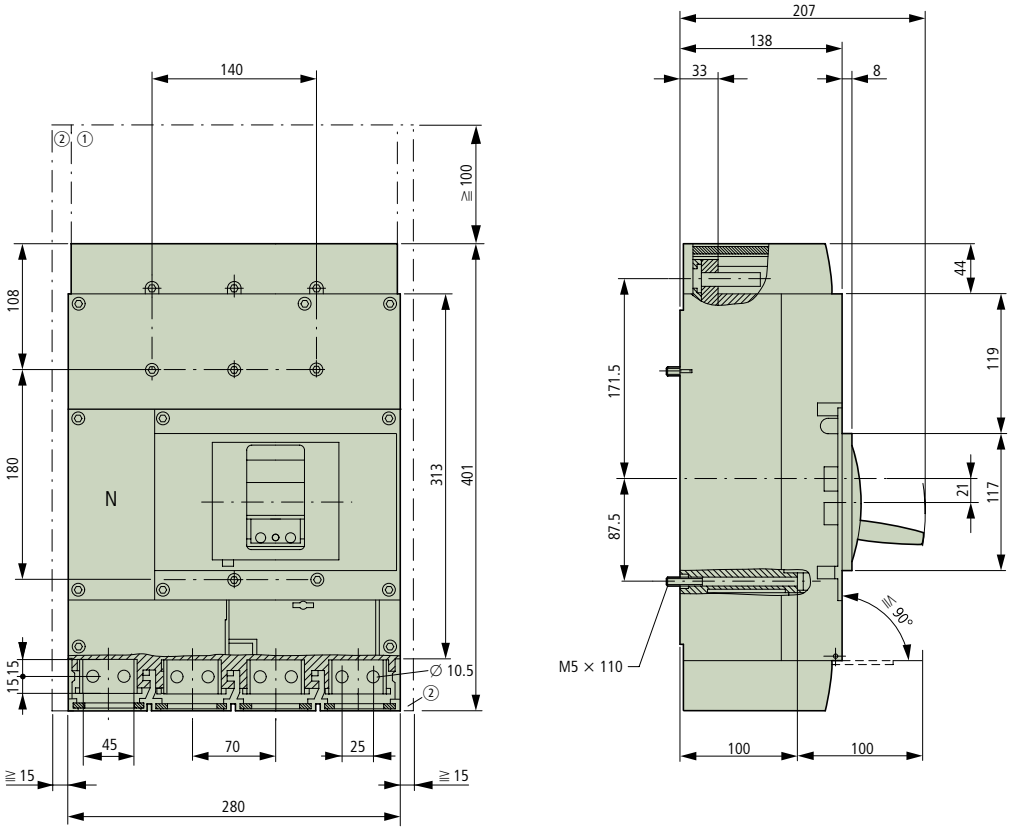
Circuit-breaker, switch-disconnector, 3-pole
NZMN4, NZMH4, NZML4, N4, NS4



① Blow out area, minimum clearance to other parts≧ 100 mm up to 690 V; ≧ 200 mm up to 1000 V
② Minimum clearance from adjacent parts ≧ 15 mm

Circuit-breaker, switch-disconnector, 4-pole
NZMN4-4, NZMH4-4, NZML4-4, N4-4



① Blow out area, minimum clearance to other parts≧ 100 mm
② Minimum clearance from adjacent parts ≧ 15 mm

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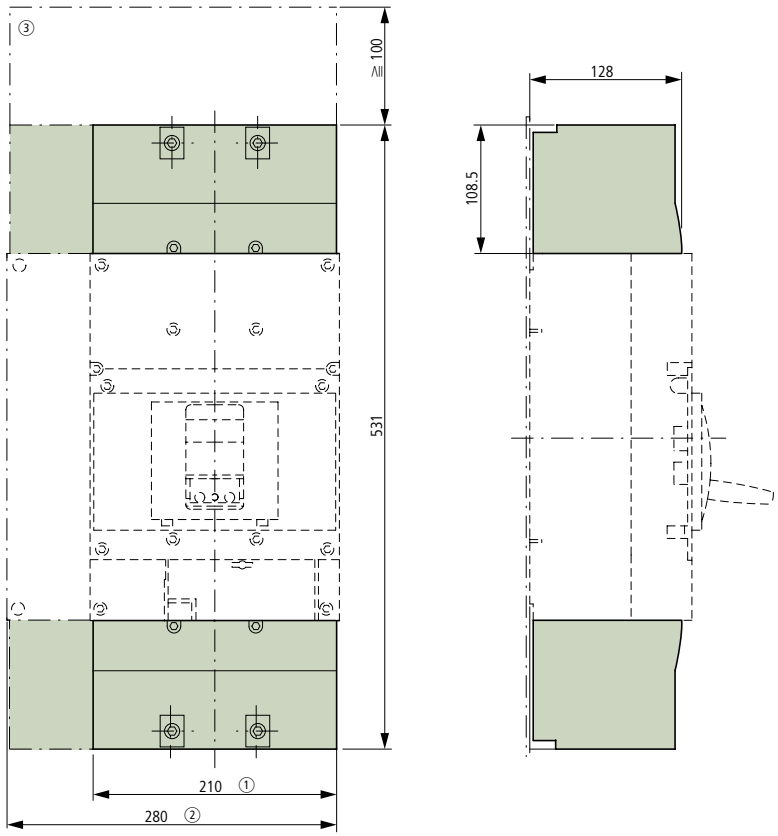
Cover

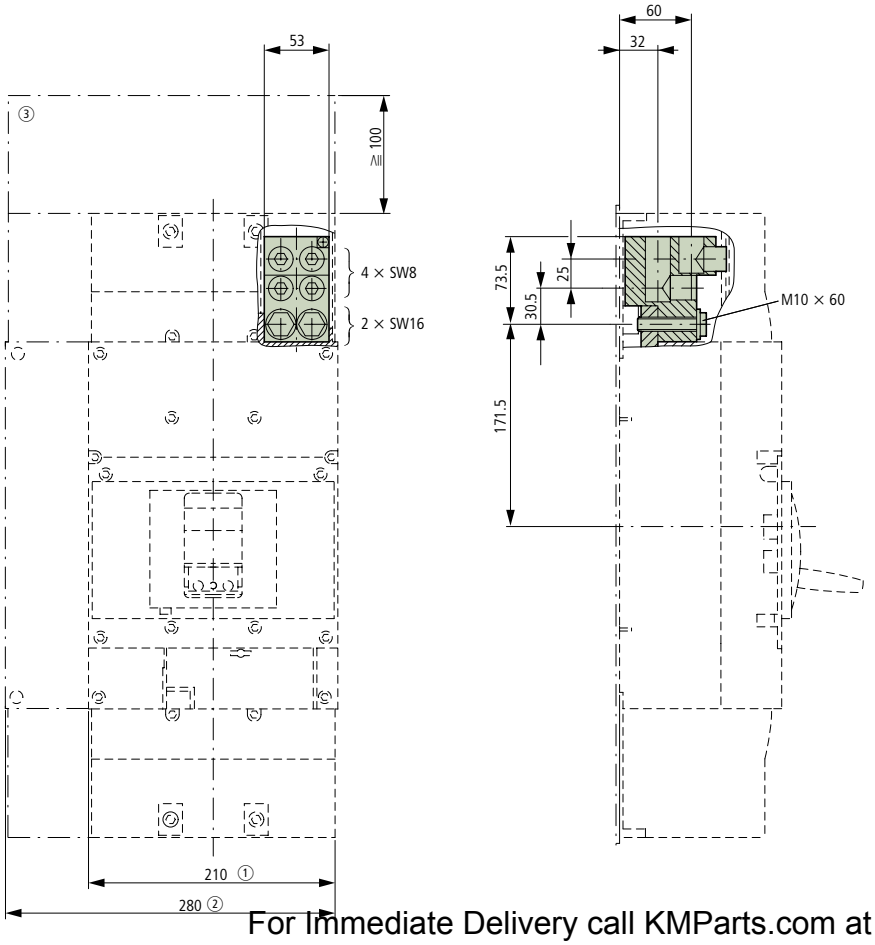
NZM4(-4)-XKSA



① 3-pole
② 4-pole
③ Clearance from conductive parts ≧ 100 mm up to 690 V;≧ 200 mm up to 1000 V

Tunnel terminal

NZM4(-4)-XKA



① 3-pole
② 4-pole
③ Clearance from conductive parts ≧ 100 mm up to 690 V;≧ 200 mm up to 1000 V

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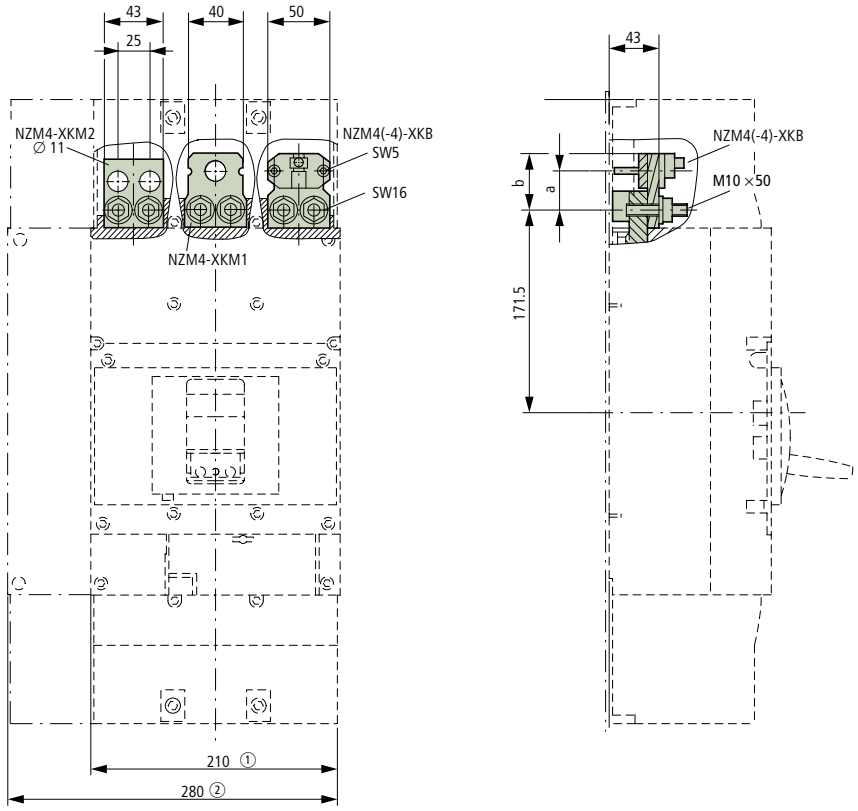
Screw connection

Module plate 1-hole
NZM4(-4)-XKM1

Module plate 2-hole
NZM4(-4)-XKM2

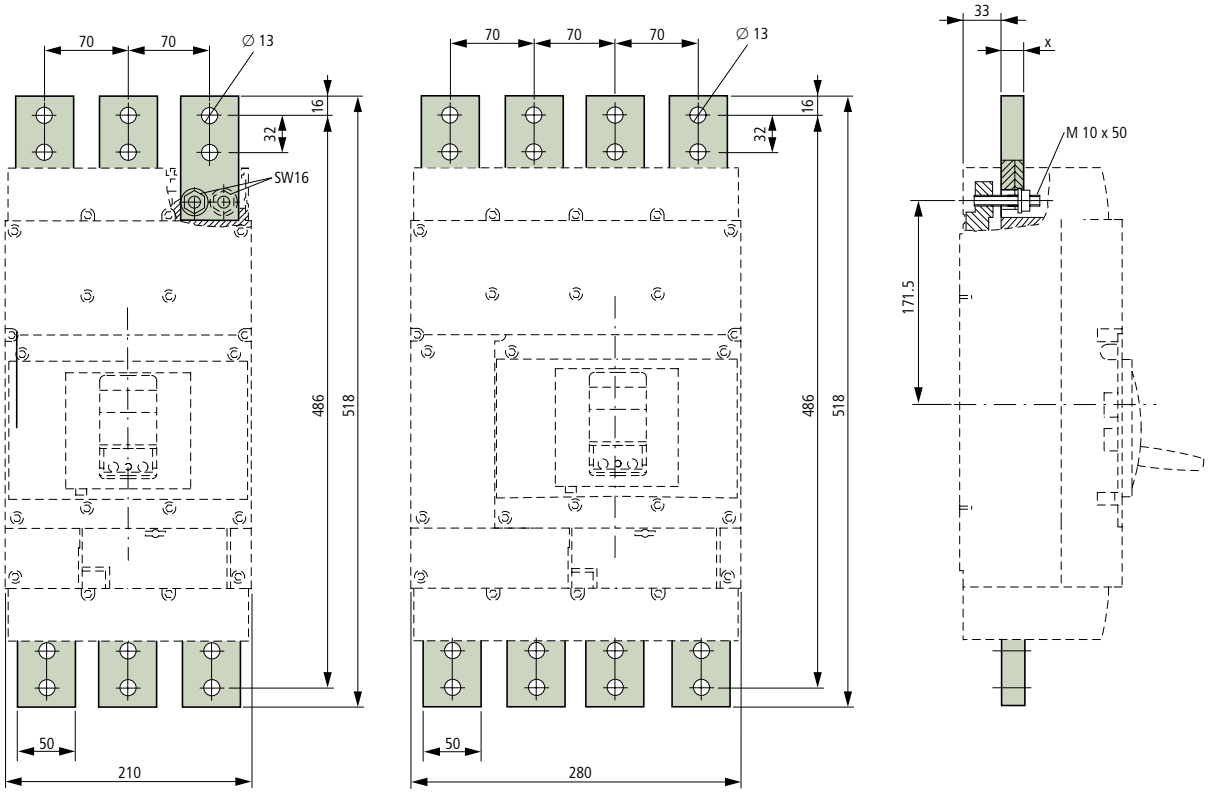
Flat cable terminal
NZM4(-4)-XKB



① 3-pole
② 4-pole
③ Clearance from conductive parts ≧ 100 mm up to 690 V; ≧ 200 mm up to 1000 V

	a	b
NZM4(-4)-XKM1	36	47
NZM4(-4)-XKM2	32	40
NZM4(-4)-XKB	–	47

Module plate 2-hole vertical
NZM4(-4)-XKM2S



	x
NZM4(-4)-XKM2S-1250	12
NZM4(-4)-XKM2S-1600	20

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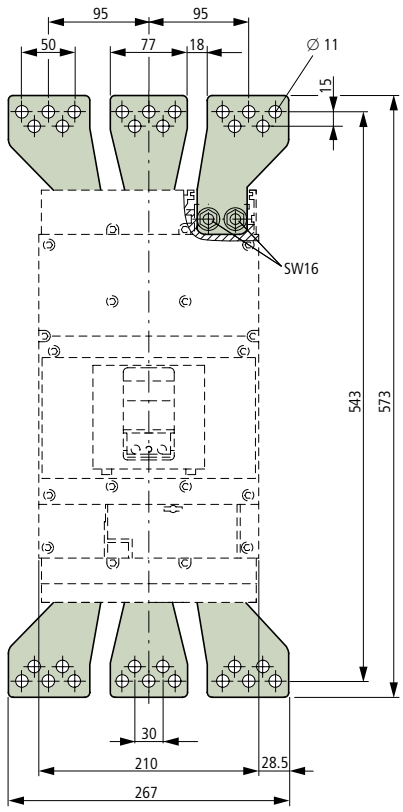
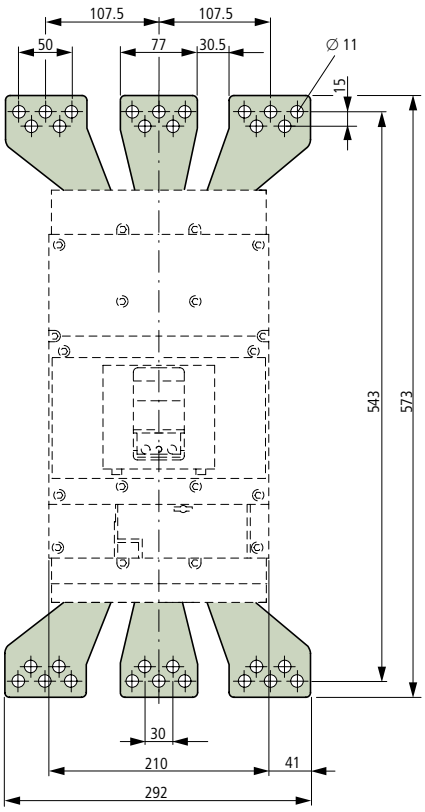
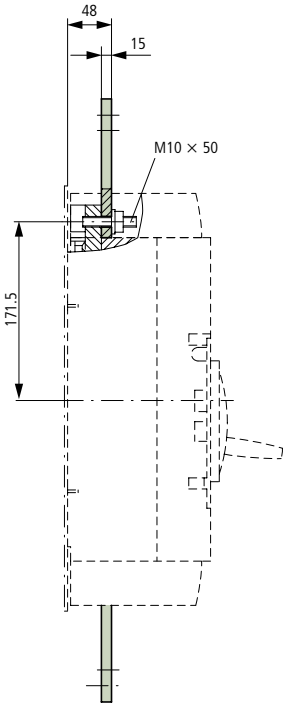
Connection width extension

NZM4-XKV95

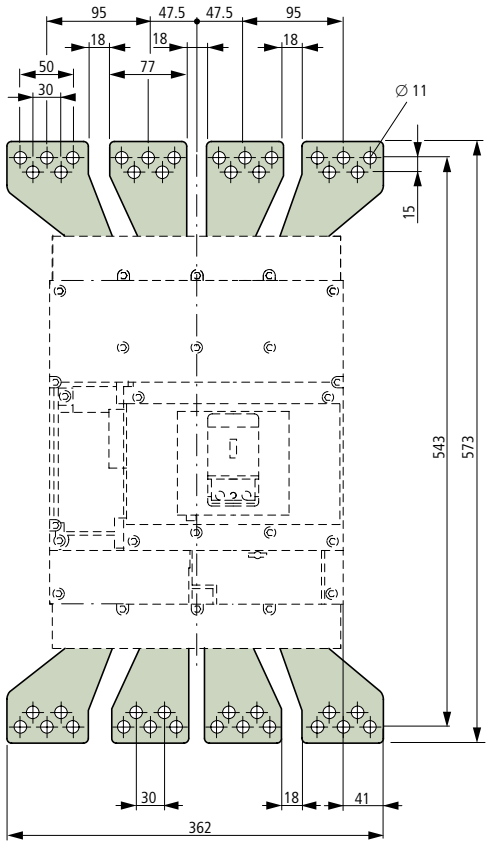


NZM4-XKV110

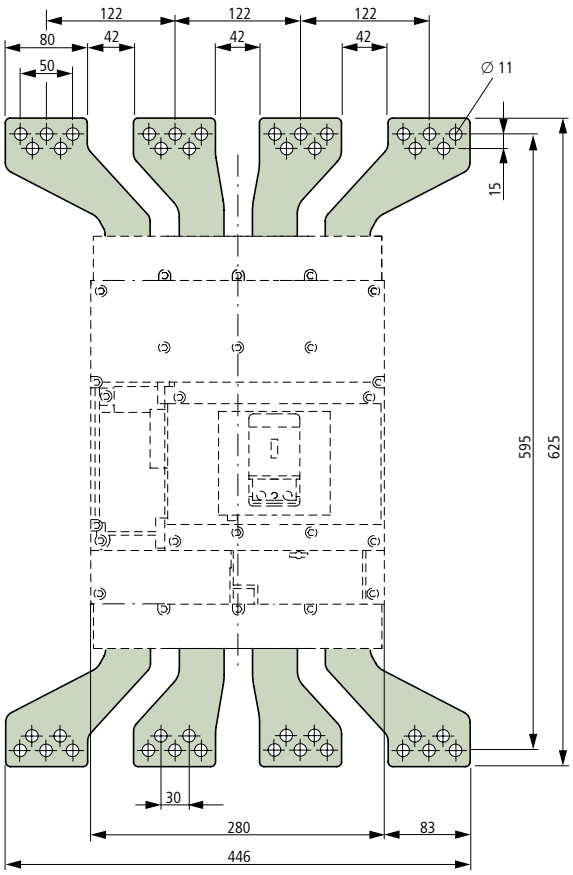


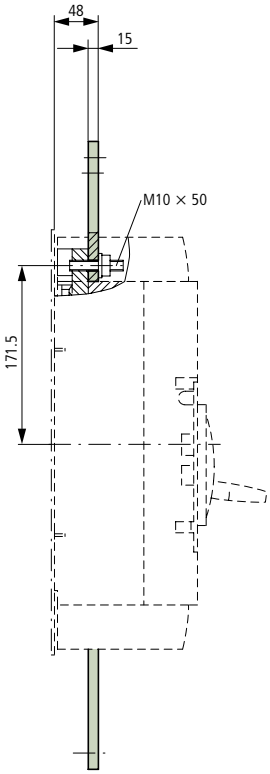


NZM4-4-XKV95



NZM4-4-XKV120





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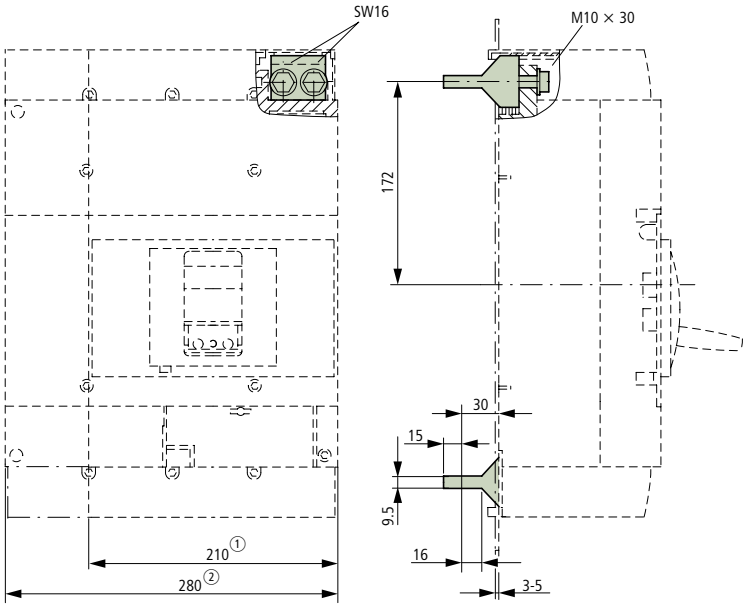
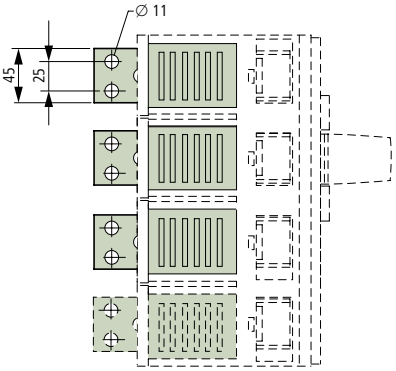
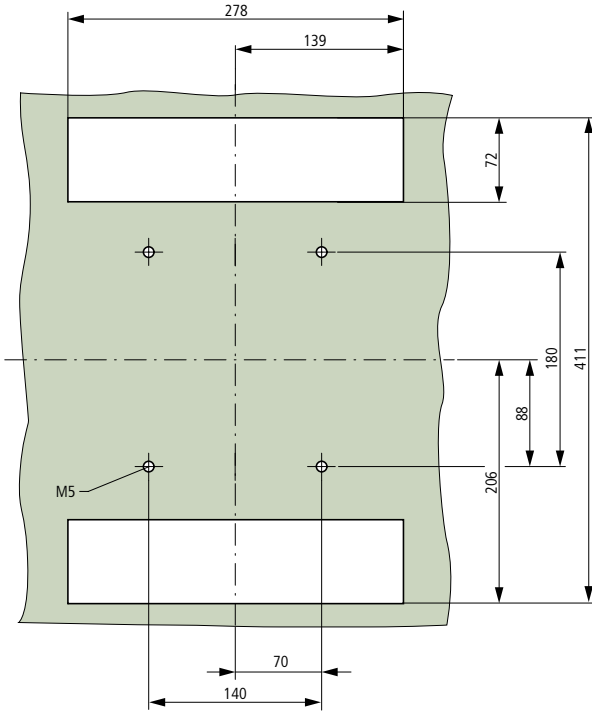
Connection on rear

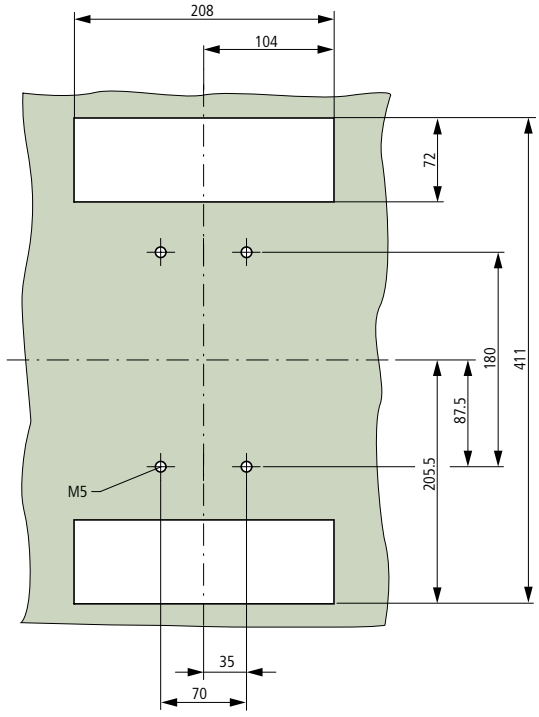
NZM4(-4)-XKR





Fitting on mounting plate





Rear connection possible also with rotation by 90°.

① 3-pole
② 4-pole

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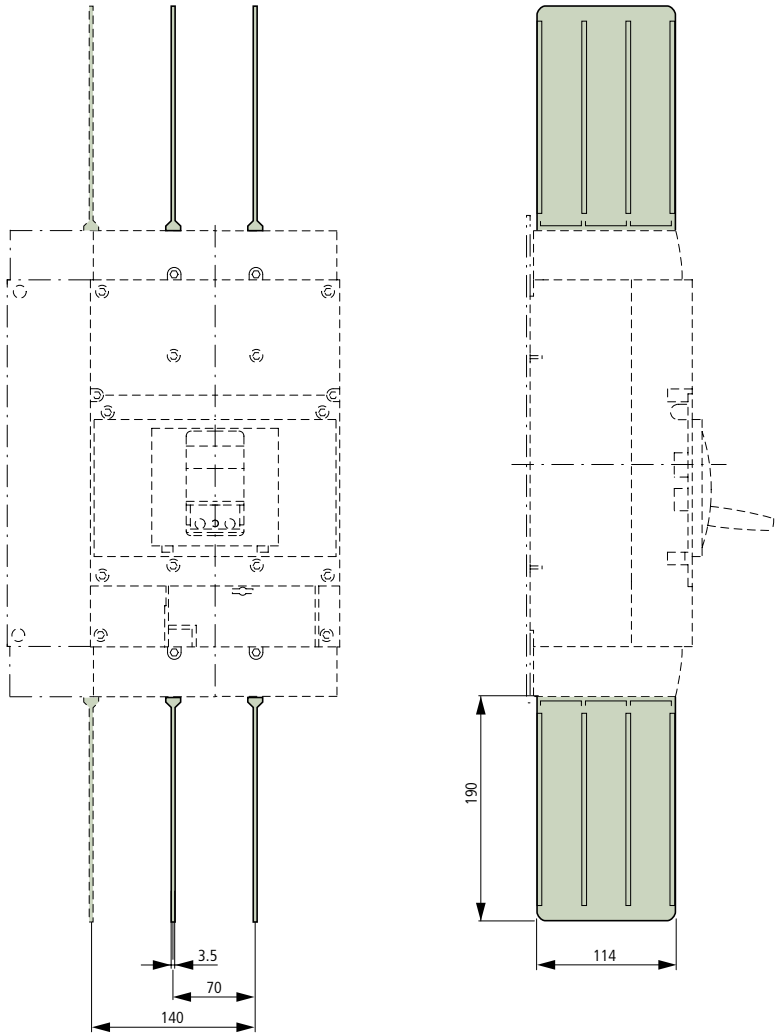
Phase isolator

NZM4(-4)-XKP



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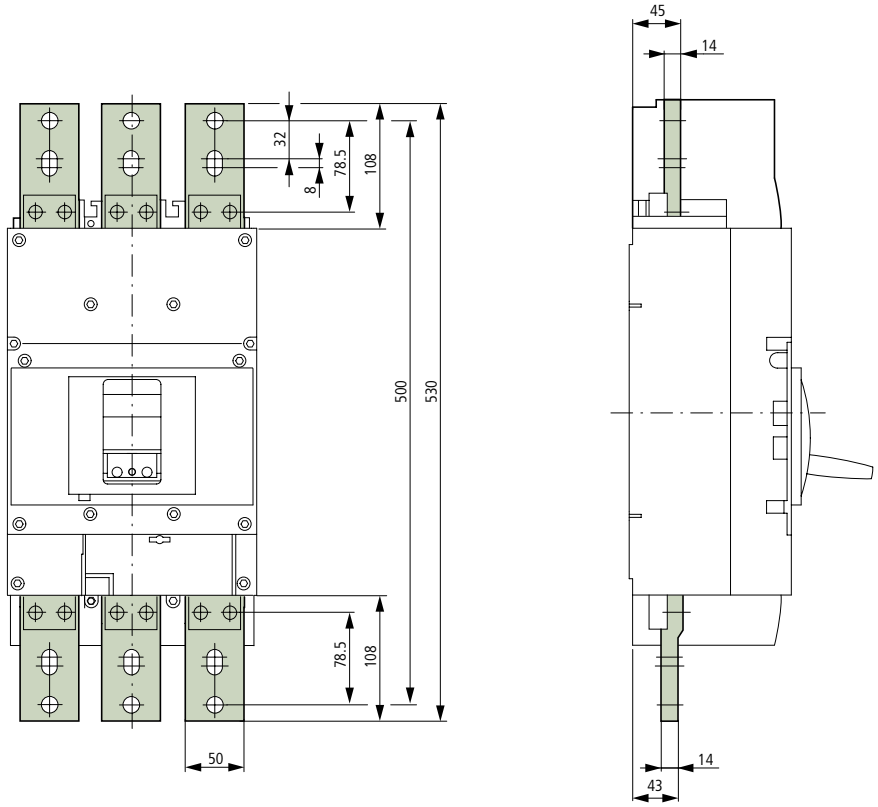
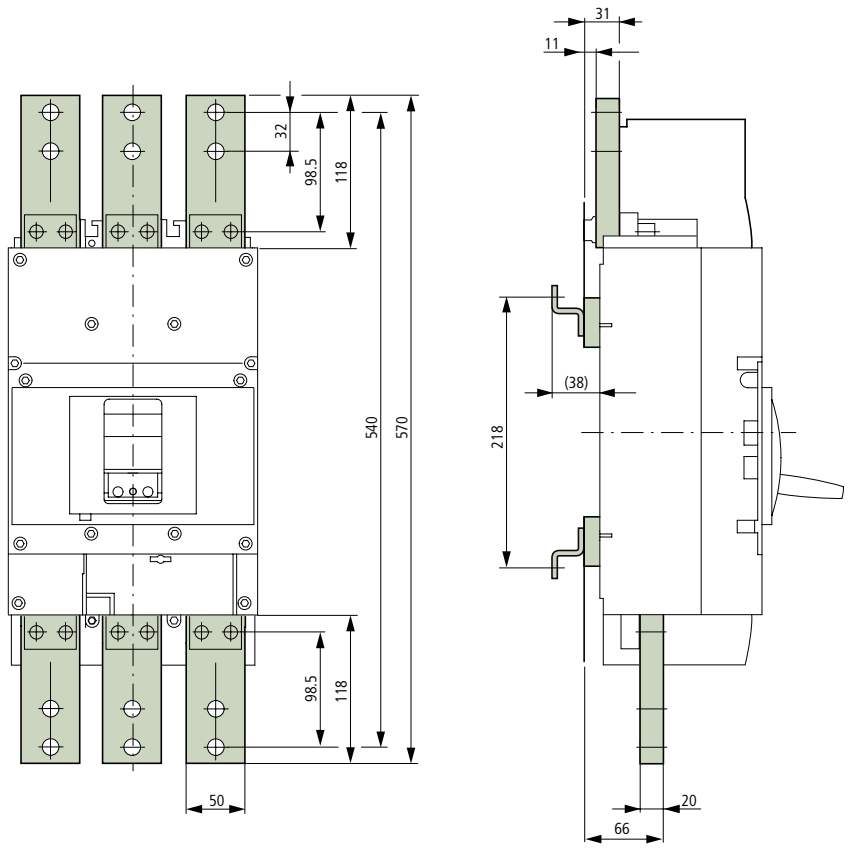
Set of adapters

NZM4-XAS14-1250



NZM4-XAS14-1600



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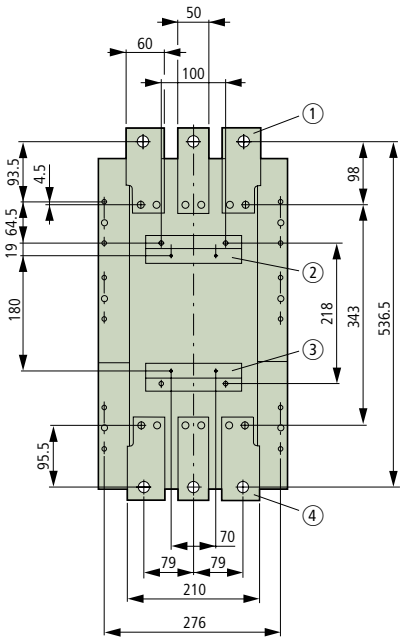
Drilling template NZM12-1000 (1250) conversion to NZM4



① Module plate NZM4-XAS12-1000(1250)
② Drilling dimensions for mounting bracket NZM4-XAS12(M5)
③ Mounting bracket NZM4-XAS12
④ DIN rail NZM12

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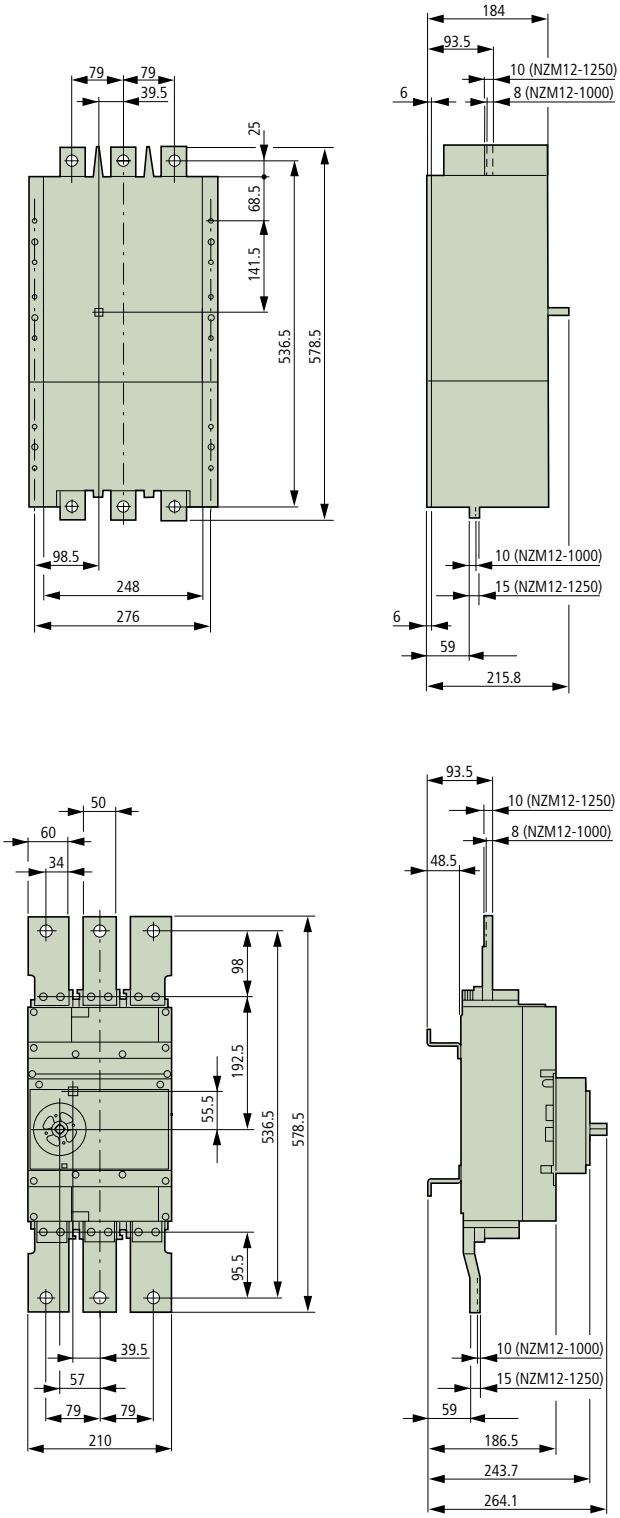
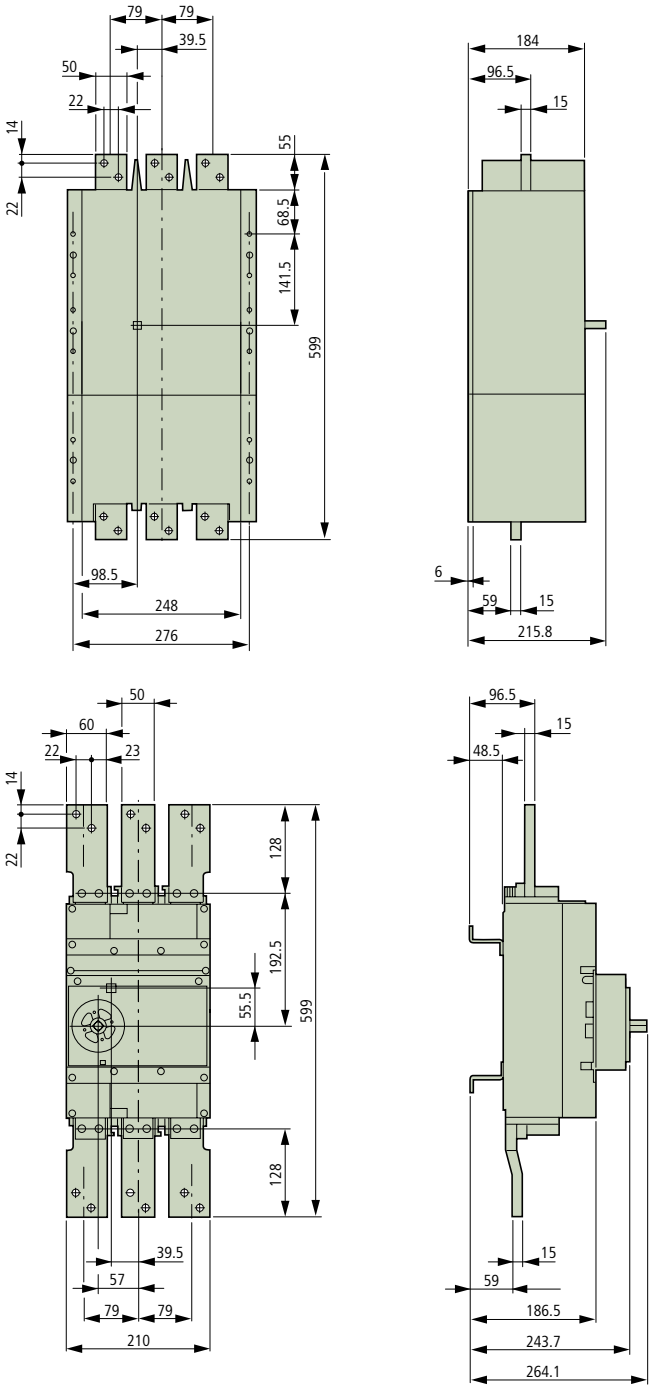
Exchange of NZM12-1000(1250) by NZM4 with module plate, fixed mounted on mounting plate

NZM4-XAS12-1000(1250)



Exchange of NZM12-1600() by NZM4 with module plate, fixed mounted on mounting plate

NZM4-XAS12-1600



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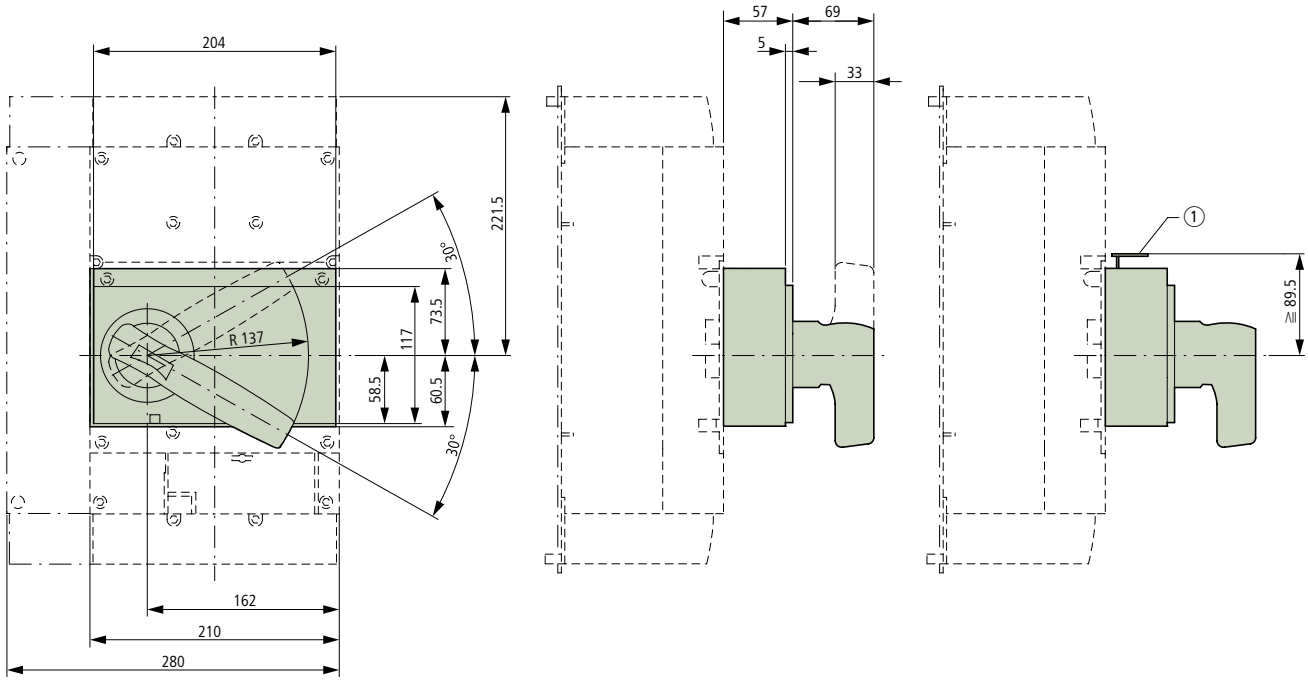
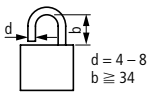
Rotary handle on circuit-breaker

NZM4-XD(V)(R)

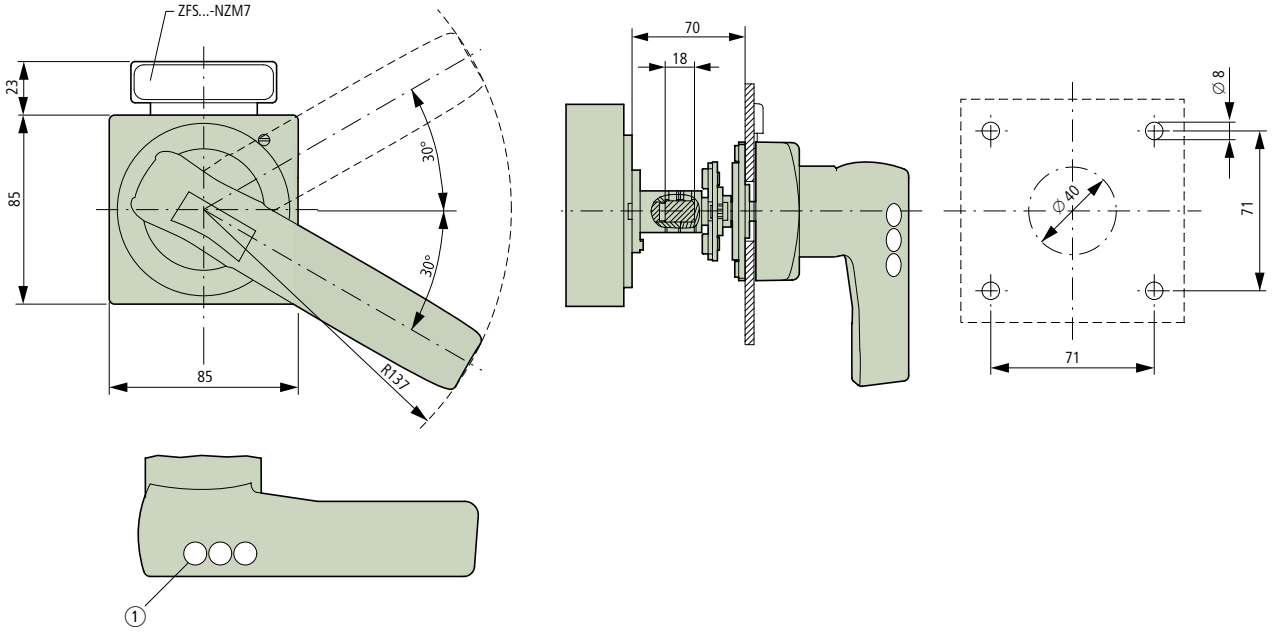


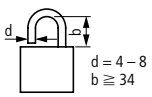


① Up to 3 padlocks

Door coupling rotary handle

NZM4-XT(V)D(V)(R)





① Up to 3 padlocks

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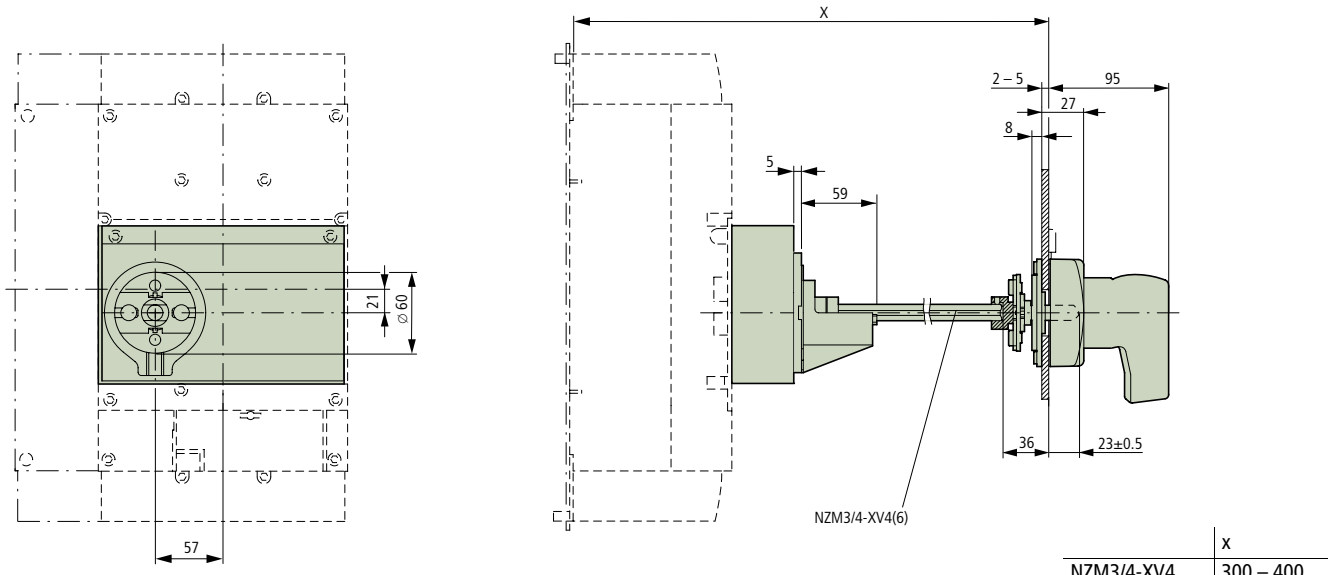
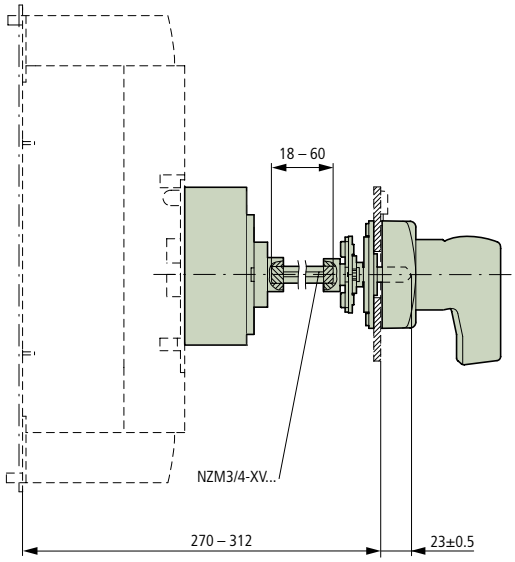
Door coupling rotary handle with extension shaft

NZM4-XT(V)D(V)(R)(-NA)
NZM3/4-XV4(6)

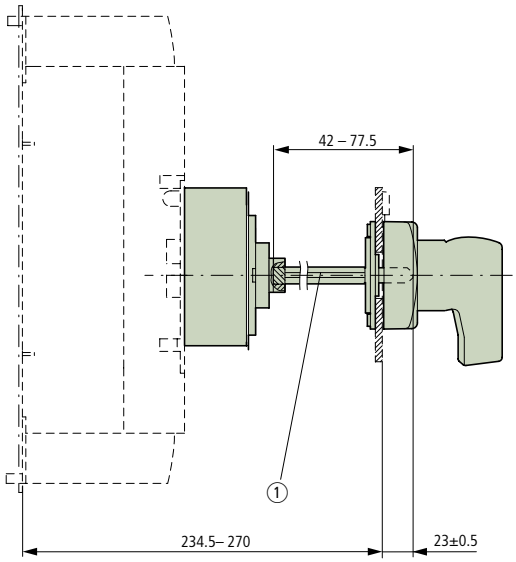


	x
NZM3/4-XV4	300 – 400
NZM3/4-XV6	400 – 600

NZM4-XT(V)D(V)(R)-60(-NA)

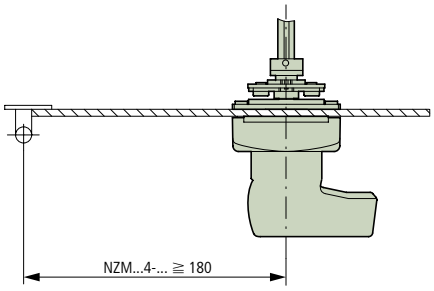


NZM4-XT(V)D(V)(R)-0(-NA)



① Special tip

Minimum door coupling rotary handle clearance from door pivot point



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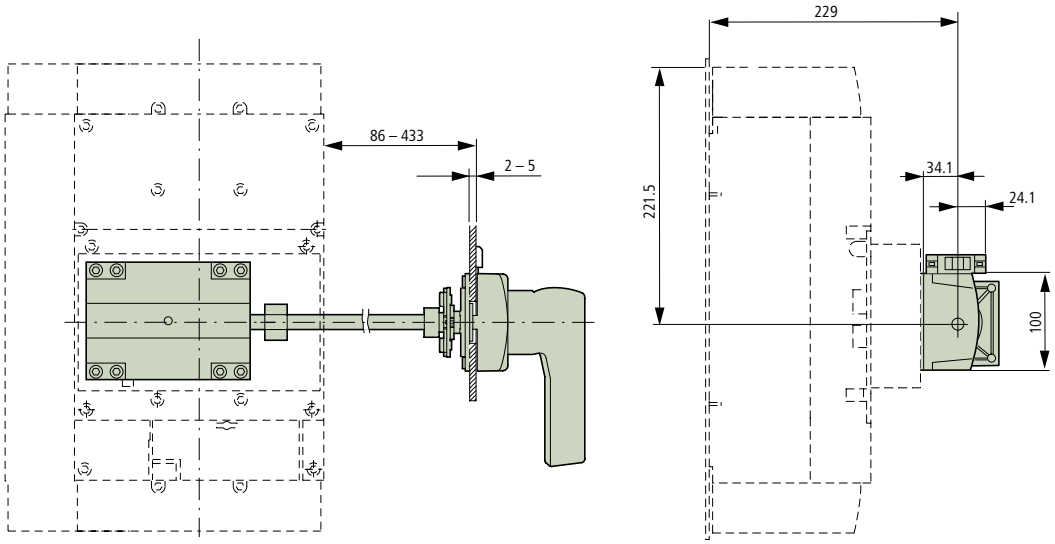
Main switch assembly kit for side wall installation

NZM4-XS(R)(F)-L
NZM4-XS(R)(F)-R



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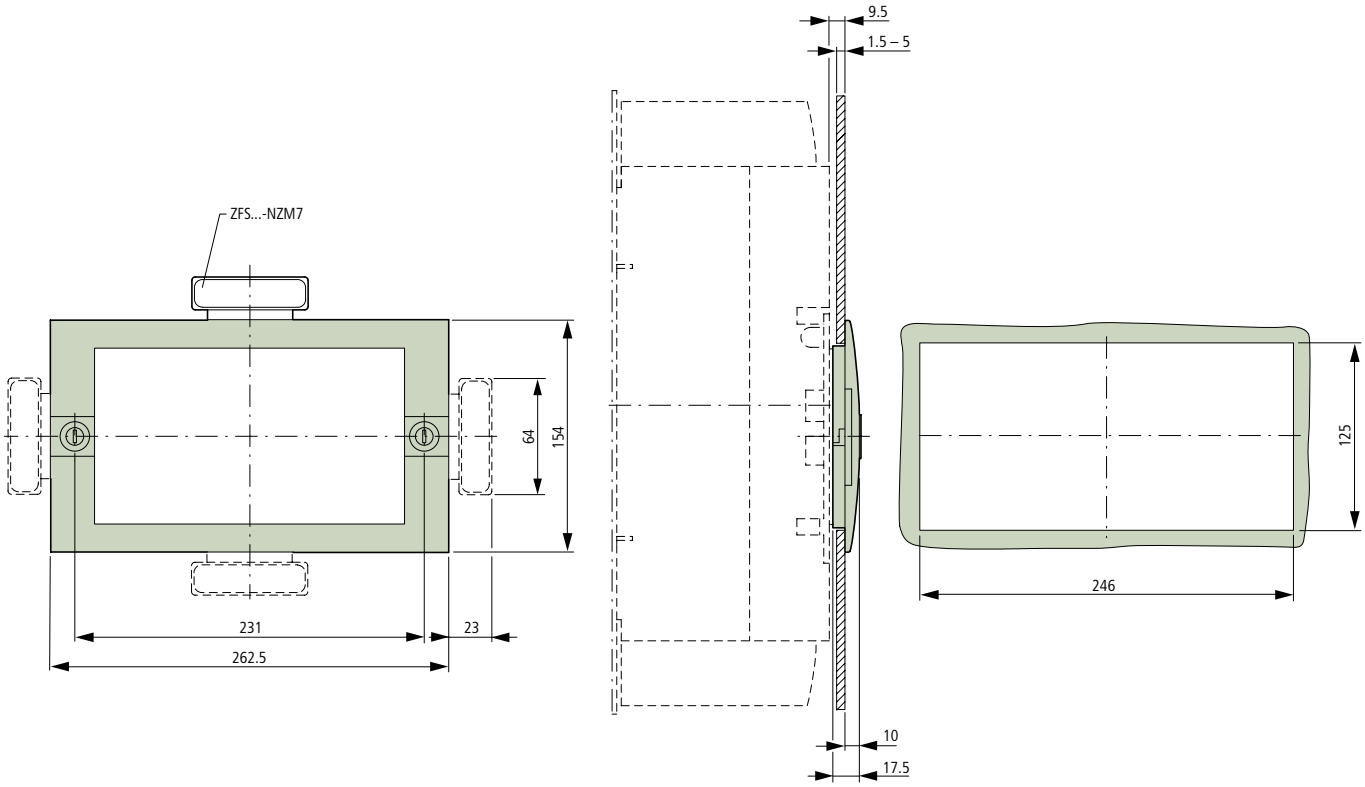
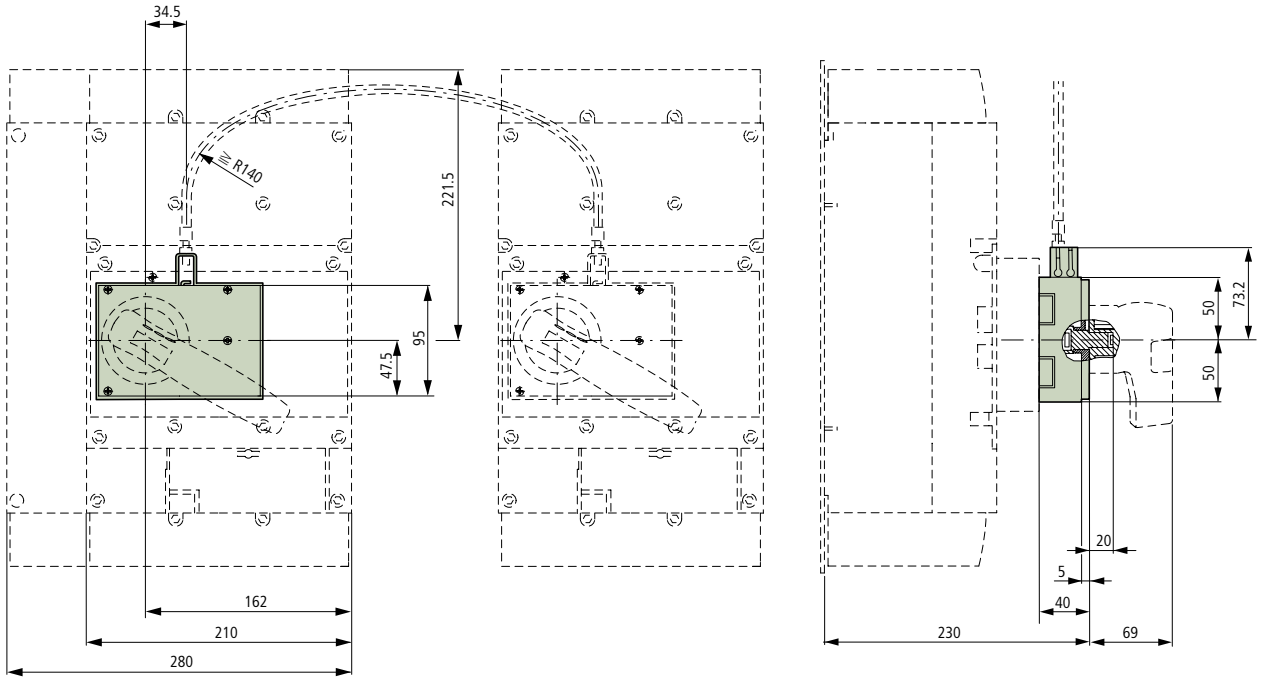
Insulating surround

NZM4-XBR



Mechanical interlock

NZM4-XMV with NZM4-XD



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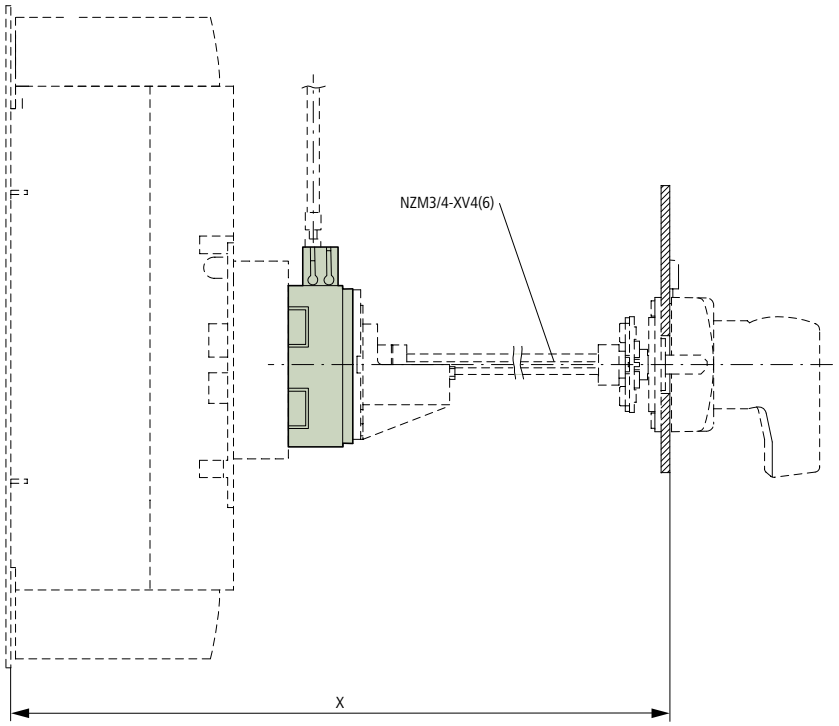
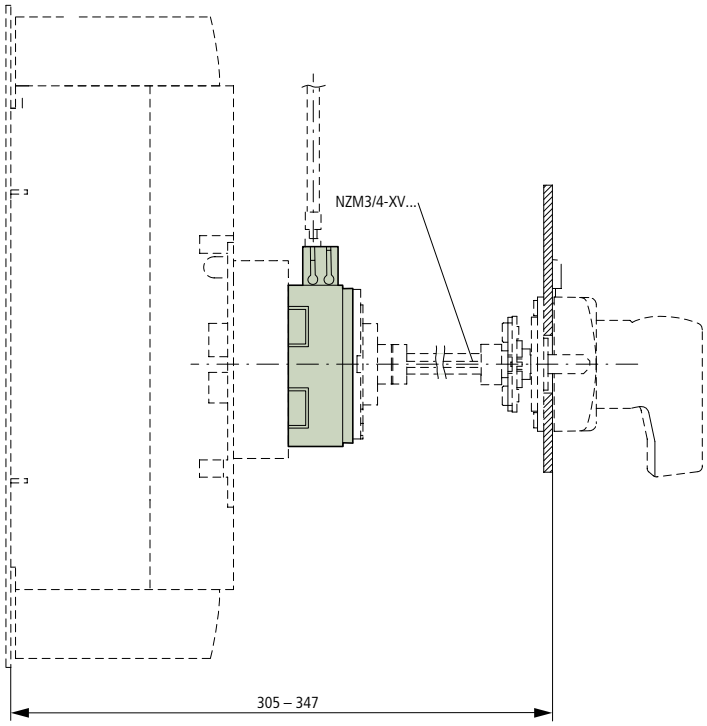
NZM4-XMV with NZM4-XT(V)D(V)(R)



	x
NZM3/4-XV4	335 – 400
NZM3/4-XV6	400 – 600

NZM4-XMV with NZM4-XT(V)D(V)(R)-60



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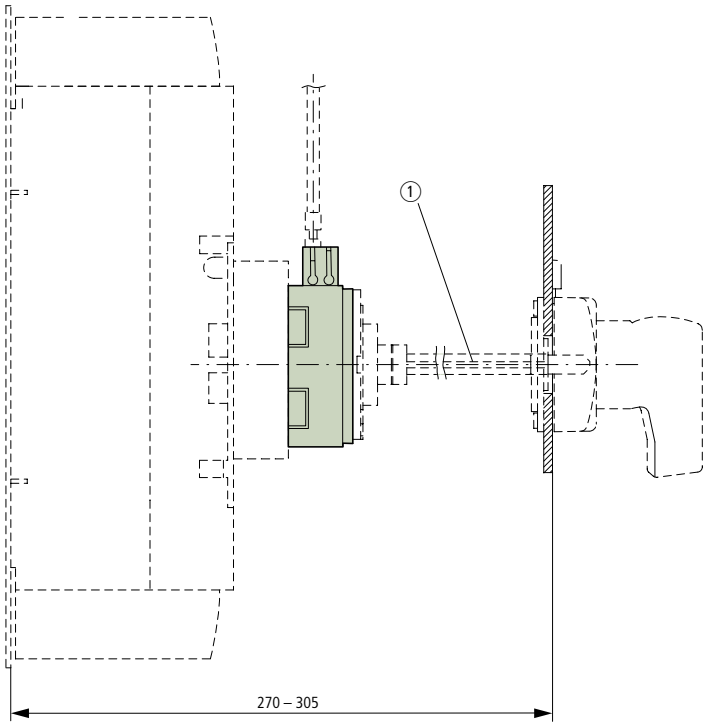
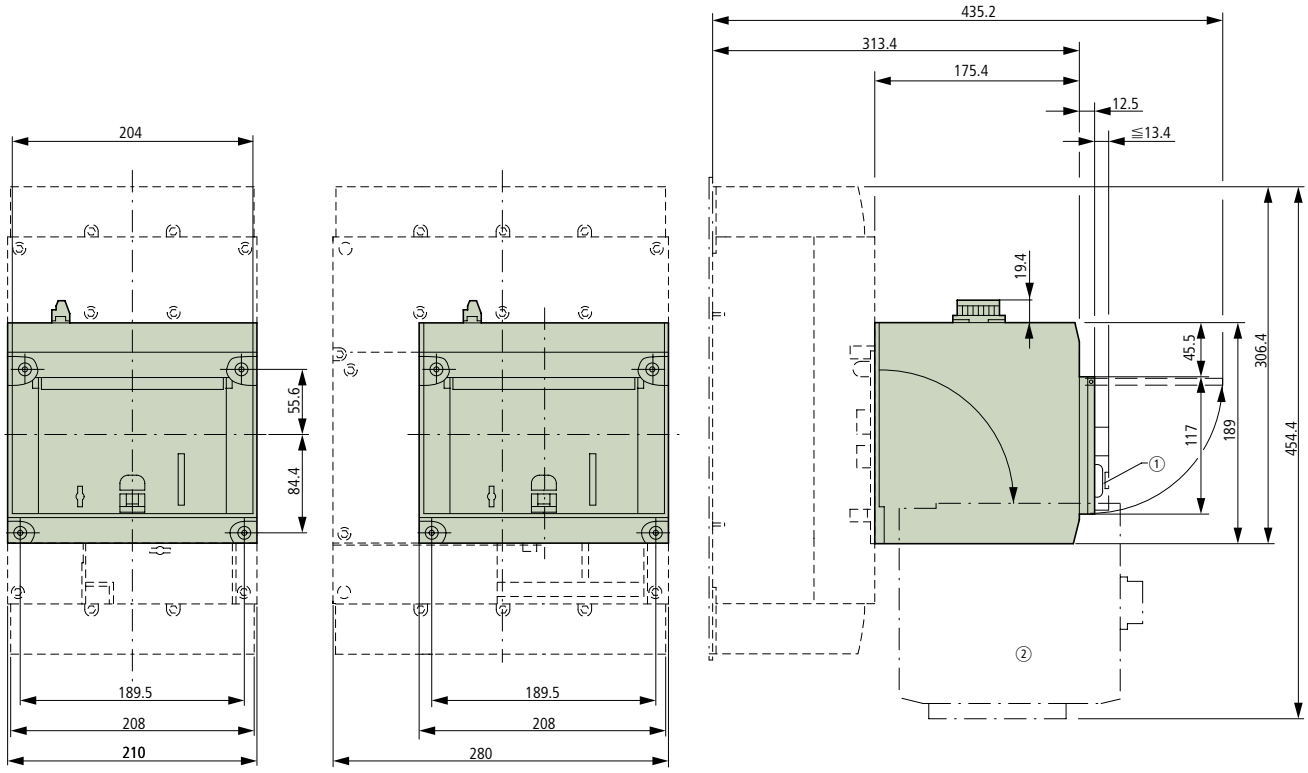
NZM4-XMV with NZM4-XT(V)D(V)(R)-0

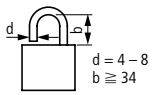


① Special tip

Remote operator

NZM4-XR...





① Up to 3 padlocks
② Remote operator folded

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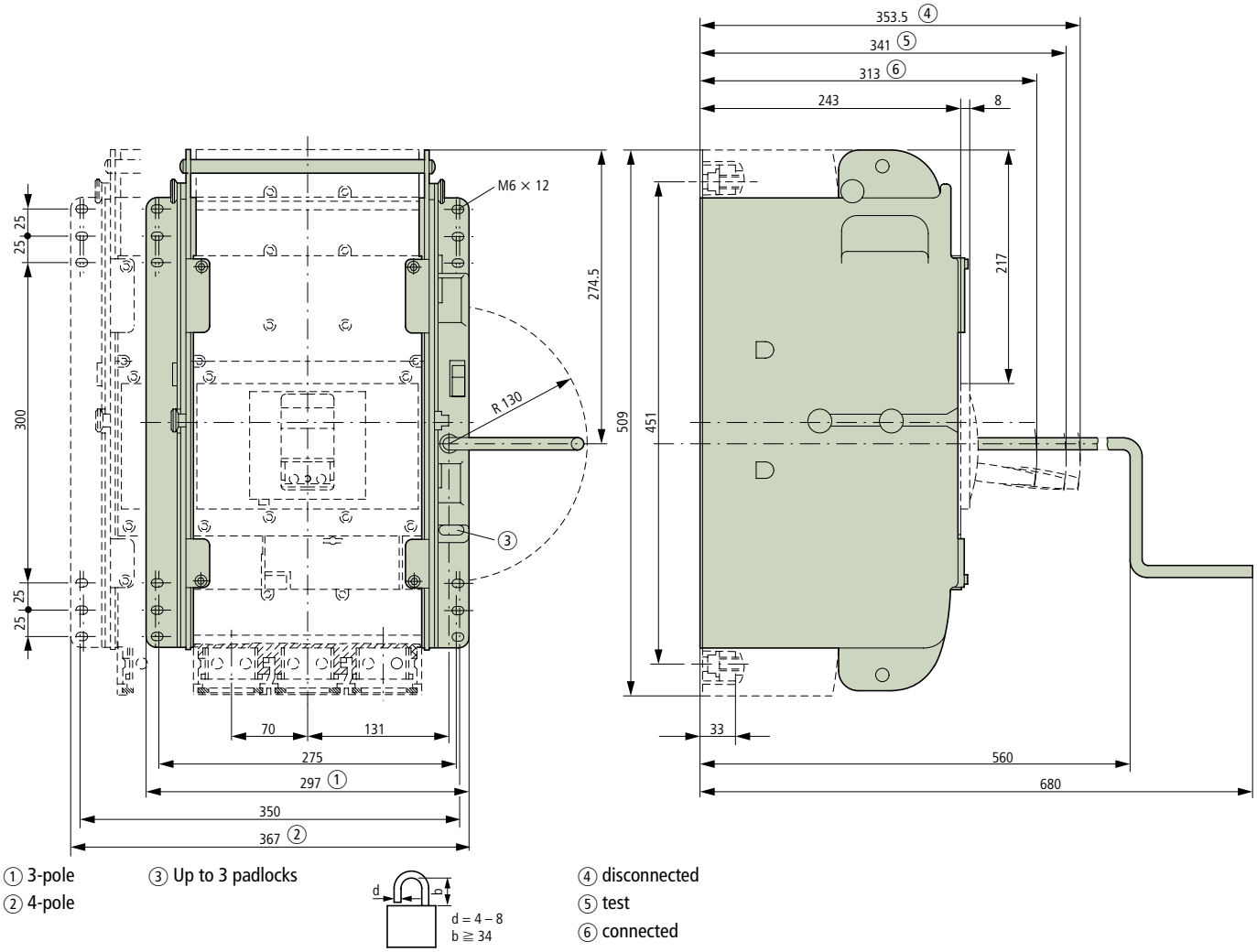
Withdrawable unit

+NZM4(-4)-XAV



① 3-pole
② 4-pole
③ Up to 3 padlocks
④ disconnected
⑤ test
⑥ connected

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