Product Range Catalogue | 2006

Switching, protection, communication – the new NZM1-4 circuit-breaker series up to 1200 A

xEnergy

Reliable and safely controlling, switching and managing power. In industry, in buildings and in machine construction. Innovative protection concepts. With built-in diagnostics and communication functions.

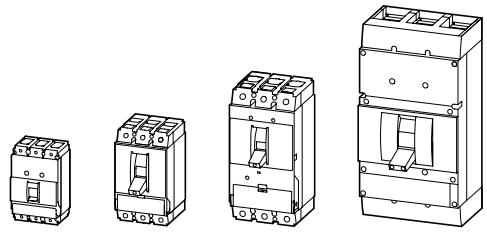
Circuit-breaker NZM

RoHS compliant 2002/95/EC

MOELLER

Think future. Switch to green.

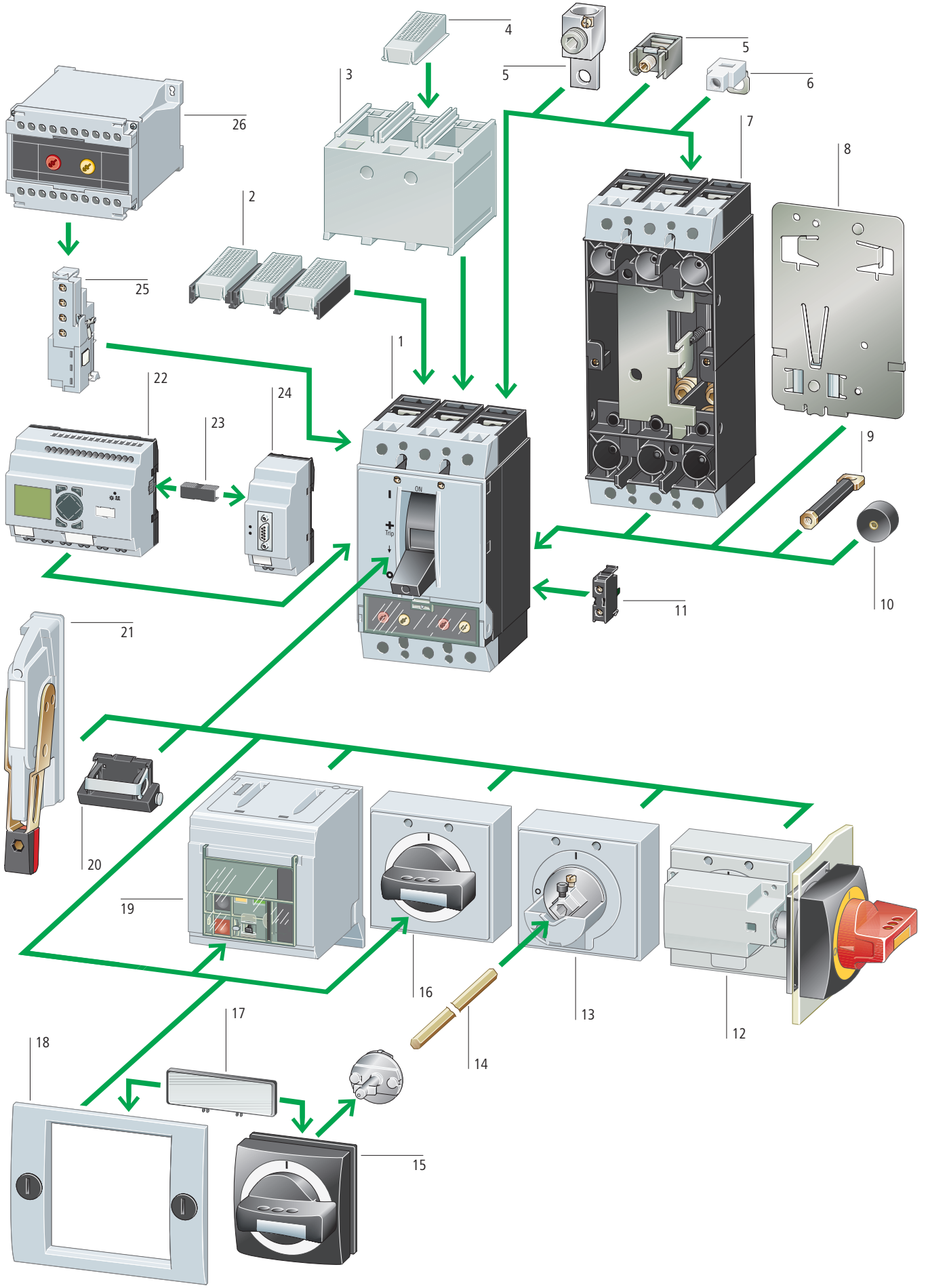
For Immediate Delivery call KMParts.com at (866) 595-9616



	Page
System overview	
Circuit-breakers, disconnect switches	2
Overview	
Circuit-breakers, Disconnect switches for North America, 3 pole	4
Circuit-breakers for North America	
Thermomagnetic release, 3 pole	6
Magnetic 3 pole short-circuit release	10
Electronic release, 3 pole	14
Molded case switches for North America	
3 pole	20
Disconnect switches for North America	
3 pole	21
Engineering	
Auxiliary contacts, trip indicating auxiliary contacts	22
Circuit-breakers, disconnect switches	
Auxiliary contacts with screw terminal	24
Undervoltage releases with screw terminal	26
Undervoltage release, off-delayed	37
Shunt release with screw terminal	38
Door coupling rotary handles	50
Rotary handles with door interlock for UL/CSA approved NA switches	52
Rotary handles	54
Rotary handles with door interlock	55
Main switch assembly kit	56

	Page
Circuit-breakers, disconnect switches	
Accessories	59
Mechanical interlock	61
Remote operators	62
Plug-in units	64
NZM1 terminals	66
NZM2 terminals	70
NZM3 terminals	74
NZM4 terminals	80
Accessories	88
Insulated terminals	90
Tripping characteristics	
Tripping characteristics for circuit-breakers	91
Let-through characteristics for circuit-breakers	95
Technical data	
Circuit-breakers	102
Disconnect switches	107
Molded Case Switches	108
Effective power loss	110
Terminal capacities	112
Remote operator, capacitor unit, auxiliary contact	114
Fitted with auxiliary contacts, timer differences	115
Undervoltage release, shunt release	116
Remote operator, capacitor unit	117
Data Management Interface (DMI Module)	118
Fieldbus connection	119
Direction of blow-out, minimum clearances, pipe cable lugs	121
Engineering	
Mechanical interlock	122
Mechanical interlock for remote operator	123
Dimensions	
Circuit-breakers, disconnect switches	125
Part number list	173
Alphabetical index	174

For Immediate Delivery call KMParts.com at (866) 595-9616



For Immediate Delivery call KMParts.com at (866) 595-9616

→ 24

Circuit-breakers for North America 1
Rated uninterrupted current up to 1200 A
Switching capacity 25, 35, 42, 85,100 kA at 480 V
Adjustable releases for overload and short-circuit
Adjustable time selectivity
Earth-fault protection
Protection of systems, cables, motors, generators
3 pole version, UL489/CSA5, IEC 60947
→ 6

Circuit-breakers without overcurrent protection for North America 1
Rated uninterrupted current up to 1200 A
Remotely tripped, with undervoltage or shunt release
3 pole version, UL489/CSA5
→ 20

Disconnect switches for North America 1
Rated uninterrupted current up to 1200 A
Remotely tripped disconnect switches with undervoltage or shunt release
3 pole version, UL489/CSA5, IEC 60947
→ 21

Add-on functions

Standard auxiliary contact 11
Switching with the main contacts
Used for indication and interlocking tasks

Trip-indicating auxiliary contact 11
General indication of tripping with trip due to overload or short-circuit as well as voltage release

Early-make auxiliary contacts 25
For interlocking and load shedding circuits, as well as for early make of the undervoltage release in main switch/ Emergency-stop applications
→ 24

Voltage releases 25
Undervoltage release
• Non-delayed
• OFF-delayed
Shunt release
→ 26

Spacers 10
→ 60

Delay unit for undervoltage releases 26
→ 50

Door coupling rotary handle 13, 15
• Lockable
• With door interlock
→ 50

Main switch rotary handle for side panel mounting 12
→ 56

Extension shaft 14
Can be cut to required length.
→ 50

Rotary handle 16
Lockable
→ 54

Remote operator 19
For ON and OFF switching and resetting by means of 2-wire or 3-wire control.
→ 62

Toggle lever interlock device 20
→ 60

Flange Operator 21
In preparation

Data Management Interface (DMI Module) 22
Access to diagnostics and operational data
Recording of current values
Parameterization and control of the circuit-breakers with electronic releases
→ 88

EASY-LINK-DS data plug 23
→ see main Moeller catalogue for industrial switchgear

PROFIBUS-DP interface 24
→ 88

Mounting accessories

Control circuit terminal 6
For two terminals at top or bottom
NZM1 → 68
NZM2 → 72
NZM3 → 76
NZM4 → 86

Tunnel terminals for Al and Cu cable 5
Standard with control circuit terminal
NZM1 → 66
NZM2 → 70
NZM3 → 76
NZM4 → 82

Box terminals 5
Standard equipment of frame size 1
Fitted within the switch housing
NZM1 → 66
NZM2 → 70
NZM3 → 74

Terminal cover 3
Protection against direct contact where cable lugs, busbars or tunnel terminals are used.
NZM1 → 68
NZM2 → 72
NZM3 → 78
NZM4 → 86

Clip plates 8
NZM1-XC35 for 35 mm top-hat rail
NZM1-XC75 for 75 mm top-hat rail
→ 60

Rear connection 9
NZM1 → 66
NZM2 → 70
NZM3 → 76
NZM4 → 82

Plug-in and withdrawable unit 7
→ 92

Insulating surround 18
For use with toggle levers, rotary drives and remote operators protruding from the enclosure
NZM1 → 60

External warning plate/designation label 17
NZM1 → 59

IP2X protection against contact with a finger 2
For box terminals
NZM1 → 68
NZM2 → 72
NZM3 → 78

IP2X protection against contact with a finger 4
For barrier
NZM1 → 68
NZM2 → 72
NZM3 → 78

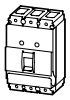
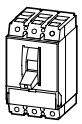
For Immediate Delivery call KMParts.com at (866) 595-9616

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 × I_n	1.2 – **100**	1.6 – **250**
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			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				

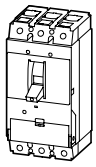
Notes

[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

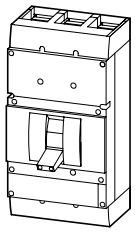
Disconnect switches: UL/CSA approved to UL 489, CSA 22.2 No. 5.1 and to IEC/EN 60947

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 $I_u = I_n$

400
550



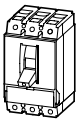
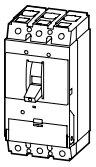
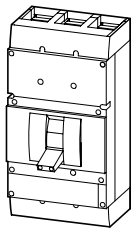
600
800
1000
1200



		N3-...-NA	N4-...-NA
Rated short-circuit making capacity I_{cm}	kA	25	53
Rated short-time withstand current I_{cw} (1s current$_{rms}$)	kA	12	25

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

Electronic releases

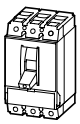
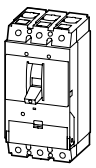
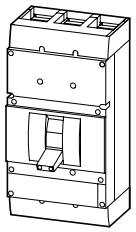
Overload releases												Short-circuit releases		
Fixed	Adjustable		Without	Fixed	Adjustable		Without	Fixed	Adjustable		System protection		Motor protection
I_u	I_u	I_r	I_u	I_u	I_u	I_r	I_u	I_u	I_u	I_r	I_{sd}	I_i	I_i
A	A	A	A	A	A	A	A	A	A	A	A	A	A
150 – **250**	100 – **250**	0.5 – 1 × I_n	90 – **220**	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**						
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

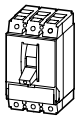
With main switch characteristics to IEC/EN 60204 and VDE 0113
Isolating characteristics to IEC/EN 60947
without overcurrent protection
Rated uninterrupted current $I_u = I_n$
Values printed in grey available on request

63		160		400		800	
100		200		**600**		1000	
125		**250**				**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

For Immediate Delivery call KMParts.com at (866) 595-9616

	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
	$I_n = I_u$	I_r	I_i				
	A	A	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	
	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	
Line and load Box Lugs installed							
	15	15	350	**NZMB2-AF15-BT-NA** 107611		**NZMN2-AF15-BT-NA** 107631	
	20	20	350	**NZMB2-AF20-BT-NA** 107612		**NZMN2-AF20-BT-NA** 107632	
	25	25	350	**NZMB2-AF25-BT-NA** 107613		**NZMN2-AF25-BT-NA** 107633	
	30	30	350	**NZMB2-AF30-BT-NA** 107614		**NZMN2-AF30-BT-NA** 107634	
	35	35	320 – 400	**NZMB2-AF35-BT-NA** 107615		**NZMN2-AF35-BT-NA** 107635	
	40	40	320 – 400	**NZMB2-AF40-BT-NA** 107616		**NZMN2-AF40-BT-NA** 107636	
	45	45	300 – 500	**NZMB2-AF45-BT-NA** 107617		**NZMN2-AF45-BT-NA** 107637	
	50	50	300 – 500	**NZMB2-AF50-BT-NA** 107618		**NZMN2-AF50-BT-NA** 107638	
	60	60	380 – 630	**NZMB2-AF60-BT-NA** 107619		**NZMN2-AF60-BT-NA** 107639	
	70	70	480 – 800	**NZMB2-AF70-BT-NA** 107620		**NZMN2-AF70-BT-NA** 107640	
	80	80	480 – 800	**NZMB2-AF80-BT-NA** 107621		**NZMN2-AF80-BT-NA** 107641	
	90	90	600 – 1000	**NZMB2-AF90-BT-NA** 107622		**NZMN2-AF90-BT-NA** 107642	
	100	100	600 – 1000	**NZMB2-AF100-BT-NA** 107623		**NZMN2-AF100-BT-NA** 107643	

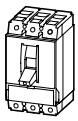
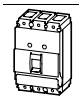
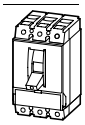
Notes Notes for terminals → 67

For Immediate Delivery call KMParts.com at (866) 595-9616

High switching capacity
100 kA 240 V
65 kA 480 V
35 kA 600 V

Part no. Article no.	**Price** see price list	Std. pack	**Notes**
		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.
NZMH2-AF15-BT-NA 107809		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.
NZMH2-AF20-BT-NA 107810			
NZMH2-AF25-BT-NA 107811			
NZMH2-AF30-BT-NA 107812			
NZMH2-AF35-BT-NA 107813			
NZMH2-AF40-BT-NA 107814			
NZMH2-AF45-BT-NA 107815			
NZMH2-AF50-BT-NA 107816			
NZMH2-AF60-BT-NA 107817			
NZMH2-AF70-BT-NA 107818			
NZMH2-AF80-BT-NA 107819			
NZMH2-AF90-BT-NA 107820			
NZMH2-AF100-BT-NA 107821			

For Immediate Delivery call KMParts.com at (866) 595-9616

	Rated current = rated uninterrupted current $I_n = I_u$ A	Setting range Overload releases I_r A	Short-circuit releases I_i A	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
Protection of systems and cables							
3-pole							
Fixed overload release Line and load Box Lugs installed							
	110	110	750 – 1250	**NZMB2-AF110-BT-NA** 107624		**NZMN2-AF110-BT-NA** 107644	
	125	125	750 – 1250	**NZMB2-AF125-BT-NA** 107625		**NZMN2-AF125-BT-NA** 107645	
	150	150	960 – 1600	**NZMB2-AF150-BT-NA** 107626		**NZMN2-AF150-BT-NA** 107646	
	175	175	1200 – 2000	**NZMB2-AF175-BT-NA** 107627		**NZMN2-AF175-BT-NA** 107647	
	200	200	1200 – 2000	**NZMB2-AF200-BT-NA** 107628		**NZMN2-AF200-BT-NA** 107648	
	225	225	1500 – 2500	**NZMB2-AF225-BT-NA** 107629		**NZMN2-AF225-BT-NA** 107649	
	250	250	1500 – 2500	**NZMB2-AF250-BT-NA** 107630		**NZMN2-AF250-BT-NA** 107650	
Adjustable overload release Line and load Box Lugs installed							
	20	15 – 20	350	**NZMB1-A20-NA** 281559		**NZMN1-A20-NA** 281570	
	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 Line and load Box Lugs installed							
	20	15 – 20	350	**NZMB2-A20-BT-NA** 107773		**NZMN2-A20-BT-NA** 107785	
	25	20 – 25	350	**NZMB2-A25-BT-NA** 107774		**NZMN2-A25-BT-NA** 107786	
	32	25 – 32	350	**NZMB2-A32-BT-NA** 107775		**NZMN2-A32-BT-NA** 107787	
	40	32 – 40	320 – 400	**NZMB2-A40-BT-NA** 107776		**NZMN2-A40-BT-NA** 107788	
	50	40 – 50	300 – 500	**NZMB2-A50-BT-NA** 107777		**NZMN2-A50-BT-NA** 107789	
	63	50 – 63	380 – 630	**NZMB2-A63-BT-NA** 107778		**NZMN2-A63-BT-NA** 107790	
	80	63 – 80	480 – 800	**NZMB2-A80-BT-NA** 107779		**NZMN2-A80-BT-NA** 107791	
	100	80 – 100	600 – 1000	**NZMB2-A100-BT-NA** 107780		**NZMN2-A100-BT-NA** 107792	
	125	100 – 125	750 – 1250	**NZMB2-A125-BT-NA** 107781		**NZMN2-A125-BT-NA** 107793	
	160	125 – 160	960 – 1600	**NZMB2-A160-BT-NA** 107782		**NZMN2-A160-BT-NA** 107794	
	200	160 – 200	1200 – 2000	**NZMB2-A200-BT-NA** 107783		**NZMN2-A200-BT-NA** 107795	
	250	200 – 250	1500 – 2500	**NZMB2-A250-BT-NA** 107784		**NZMN2-A250-BT-NA** 107796	

Notes Notes for terminals → 71

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

High switching capacity
100 kA 240 V
65 kA 480 V
35 kA 600 V

Part no. Article no.	**Price** see price list	Std. pack	**Notes**
NZMH2-AF110-BT-NA 107822 **NZMH2-AF125-BT-NA** 107823 **NZMH2-AF150-BT-NA** 107824 **NZMH2-AF175-BT-NA** 107825 **NZMH2-AF200-BT-NA** 107826 **NZMH2-AF225-BT-NA** 107827 **NZMH2-AF250-BT-NA** 107828		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.
		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 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.
NZMH2-A20-BT-NA 107797 **NZMH2-A25-BT-NA** 107798 **NZMH2-A32-BT-NA** 107799 **NZMH2-A40-BT-NA** 107800 **NZMH2-A50-BT-NA** 107801 **NZMH2-A63-BT-NA** 107802 **NZMH2-A80-BT-NA** 107803 **NZMH2-A100-BT-NA** 107804 **NZMH2-A125-BT-NA** 107805 **NZMH2-A160-BT-NA** 107806 **NZMH2-A200-BT-NA** 107807 **NZMH2-A250-BT-NA** 107808		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 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 switching capacity 25 kA 600 V the following applies: for NZM2.

For Immediate Delivery call KMParts.com at (866) 595-9616

	Rated current = rated uninterrupted current $I_n = I_u$ A	**Setting range** Short-circuit releases I_i A $I>$	Basic switching capacity **480 V**[1] **Part no.** Article no.	**Price** see price list	Std. pack
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		1 off
	2	12.8 – 22.4	**NZMB1-S2-CNA** 102907		
	3	19.2 – 33.6	**NZMB1-S3-CNA** 102908		
	5	32 – 56	**NZMB1-S5-CNA** 102909		
	8	48 – 84	**NZMB1-S8-CNA** 103020		
	12	80 – 140	**NZMB1-S12-CNA** 103021		
	18	128 – 224	**NZMB1-S18-CNA** 103022		
	26	200 – 350	**NZMB1-S26-CNA** 103023		
	33	256 – 448	**NZMB1-S33-CNA** 103024		
	40	320 – 560	**NZMB1-S40-CNA** 281263		
	50	400 – 700	**NZMB1-S50-CNA** 281264		
	63	504 – 882	**NZMB1-S63-CNA** 281265		
	80	640 – 1120	**NZMB1-S80-CNA** 281266		
	100	800 – 1250	**NZMB1-S100-CNA** 281267		
Notes	Notes for terminals → 67				

For Immediate Delivery call KMParts.com at (866) 595-9616

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

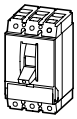
Adjustable short-circuit release I_i
- 8 – 14 × I_n (ex-factory 12 × I_n)
  – NZM...1-S1,2 – 33-CNA: approx. 8 – 14 × I_n
  – NZM...1-S100-CNA: 8 – 12.5 × I_n (ex-factory 12 × I_n)

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.

For Immediate Delivery call KMParts.com at (866) 595-9616

	Rated current = rated uninterrupted current $I_n = I_u$ A	**Setting range** Short-circuit releases I_i A $I>$	Basic switching capacity **480 V** **600 V** **Part no.** Article no.	**Price** see price list
Short-circuit protection				
Motor protection in conjunction with contactor and overload relay • With short-circuit release • Without overload release				
3 pole				
Line and load Box Lugs installed				
	1.6	12.8 – 22.4	**NZMB2-S1,6-BT-CNA** 107651	
	2.4	19.2 – 33.6	**NZMB2-S2,4-BT-CNA** 107652	
	5	32 – 56	**NZMB2-S5-BT-CNA** 107653	
	8	48 – 84	**NZMB2-S8-BT-CNA** 107654	
	12	80 – 140	**NZMB2-S12-BT-CNA** 107655	
	18	128 – 224	**NZMB2-S18-BT-CNA** 107656	
	26	200 – 350	**NZMB2-S26-BT-CNA** 107657	
	33	256 – 448	**NZMB2-S33-BT-CNA** 107658	
	40	320 – 560	**NZMB2-S40-BT-CNA** 107659	
	50	400 – 700	**NZMB2-S50-BT-CNA** 107660	
	63	504 – 882	**NZMB2-S63-BT-CNA** 107661	
	80	640 – 1120	**NZMB2-S80-BT-CNA** 107662	
	100	800 – 1400	**NZMB2-S100-BT-CNA** 107663	
	125	1000 – 1750	**NZMB2-S125-BT-CNA** 107664	
	160	1280 – 2240	**NZMB2-S160-BT-CNA** 107665	
	200	1600 – 2500	**NZMB2-S200-BT-CNA** 107666	
	250	2000 – 2500	**NZMB2-S250-BT-CNA** 107667	

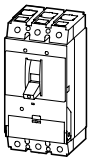
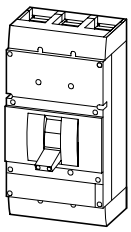
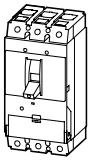
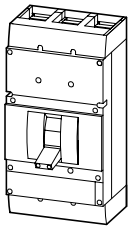
Notes Notes for terminals → 71

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

Std. pack	**Notes**
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.

For Immediate Delivery call KMParts.com at (866) 595-9616

	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** **Part no.** Article no.	**Price** see price list
	$I_n = I_u$ A	I_r A	Non-delayed 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	
	300	300	600 – 3300	**NZMN3-AEF300-NA** 269276	
	350	350	700 – 3850	**NZMN3-AEF350-NA** 269277	
	400	400	800 – 4400	**NZMN3-AEF400-NA** 269278	
	450	450	900 – 3600	**NZMN3-AEF450-NA** 269279	
	500	500	1000 – 4000	**NZMN3-AEF500-NA** 269280	
	550	550	1100 – 4400	**NZMN3-AEF550-NA** 269281	
	600	600	1200 – 4800	**NZMN3-AEF600-NA** 269282	
	600	600	1200 – 7200	**NZMN4-AEF600-NA** 271108	
	700	700	1400 – 8400	**NZMN4-AEF700-NA** 271109	
	800	800	1600 – 9600	**NZMN4-AEF800-NA** 271110	
	900	900	1800 – 10800	**NZMN4-AEF900-NA** 271111	
	1000	1000	2000 – 12000	**NZMN4-AEF1000-NA** 271112	
	1200	1200	2400 – 14400	**NZMN4-AEF1200-NA** 271113	
3 pole					
Adjustable overload releases Terminal screws standard terminals as accessories					
	250	125 – 250	500 – 2750	**NZMN3-AE250-NA** 269299	
	400	200 – 400	800 – 4400	**NZMN3-AE400-NA** 269300	
	600	300 – 600	1200 – 4800	**NZMN3-AE600-NA** 269301	
	800	400 – 800	1600 – 9600	**NZMN4-AE800-NA** 271120	
	1000	500 – 1000	2000 – 12000	**NZMN4-AE1000-NA** 271121	
	1200	600 – 1200	2400 – 14400	**NZMN4-AE1200-NA** 271122	

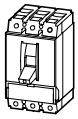
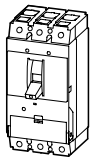
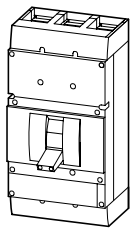
Notes Notes for terminals → 71

For Immediate Delivery call KMParts.com at (866) 595-9616

High switching capacity
100 kA 240 V
65 kA 480 V
35 kA 600 V

Part no. Article no.	**Price** see price list	Std. pack	**Notes**
NZMH3-AEF250-NA 269283		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 high switching capacity with NZMH4, the following applies: 85 kA/480 V
NZMH3-AEF300-NA 269284			
NZMH3-AEF350-NA 269285			
NZMH3-AEF400-NA 269286			
NZMH3-AEF450-NA 269287			
NZMH3-AEF500-NA 269288			
NZMH3-AEF550-NA 269289			
NZMH3-AEF600-NA 269290			
NZMH4-AEF600-NA 271114			
NZMH4-AEF700-NA 271115			
NZMH4-AEF800-NA 271116			
NZMH4-AEF900-NA 271117			
NZMH4-AEF1000-NA 271118			
NZMH4-AEF1200-NA 271119			
NZMH3-AE250-NA 269302		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 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 high switching capacity with NZMH4, the following applies: 85 kA/480 V
NZMH3-AE400-NA 269303			
NZMH3-AE600-NA 269304			
NZMH4-AE800-NA 271123			
NZMH4-AE1000-NA 271124			
NZMH4-AE1200-NA 271125			

For Immediate Delivery call KMParts.com at (866) 595-9616

	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] Part no. Article no.	Price see price list
			Non-delayed	Delayed		
	$I_n = I_u$ A	I_r A	I_i A	I_{sd} A		
Systems, cable, transformer and generator protection						
3 pole						
Line and load terminals standard Terminal screws standard terminals as accessories						
	150	150	1800	300 – 1500	**NZMN2-VEF150-BT-NA** 107593	
	175	175	2100	350 – 1750	**NZMN2-VEF175-BT-NA** 107594	
	200	200	2400	400 – 2000	**NZMN2-VEF200-BT-NA** 107595	
	225	225	2700	450 – 2250	**NZMN2-VEF225-BT-NA** 107596	
	250	250	3000	500 – 2500	**NZMN2-VEF250-BT-NA** 107597	
Terminal screws standard terminals as accessories						
	250	250	500 – 2750	500 – 2500	**NZMN3-VEF250-NA** 269308	
	300	300	600 – 3300	600 – 3000	**NZMN3-VEF300-NA** 269309	
	350	350	700 – 3850	700 – 3500	**NZMN3-VEF350-NA** 269310	
	400	400	800 – 4400	800 – 4000	**NZMN3-VEF400-NA** 269311	
	450	450	900 – 3600	675 – 3150	**NZMN3-VEF450-NA** 269312	
	500	500	1000 – 4000	750 – 3500	**NZMN3-VEF500-NA** 269313	
	550	550	1100 – 4400	825 – 3850	**NZMN3-VEF550-NA** 269314	
	600	600	1200 – 4800	900 – 4200	**NZMN3-VEF600-NA** 269315	
	600	600	1200 – 7200	1200 – 6000	**NZMN4-VEF600-NA** 271136	
	700	700	1400 – 8400	1400 – 7000	**NZMN4-VEF700-NA** 271137	
	800	800	1600 – 9600	1600 – 8000	**NZMN4-VEF800-NA** 271138	
	900	900	1800 – 10800	1800 – 9000	**NZMN4-VEF900-NA** 271139	
	1000	1000	2000 – 12000	2000 – 10000	**NZMN4-VEF1000-NA** 271140	
	1200	1200	2400 – 14400	2400 – 12000	**NZMN4-VEF1200-NA** 271141	

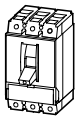
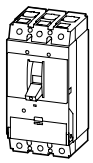
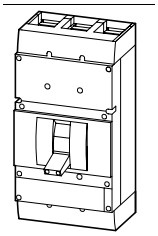
Notes Notes for terminals → 71

For Immediate Delivery call KMParts.com at (866) 595-9616

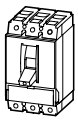
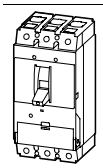
Moeller SK1230-1157EN-NA

High switching capacity **65 kA 480 V** **35 kA 600 V**[3] **Part no.** Article no.	**Price** see price list	Std. pack	**Notes**
NZMH2-VEF150-BT-NA 107598		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 limiter high switching capacity with NZMH4-...-NA, the following applies: 85 kA/480 V
NZMH2-VEF175-BT-NA 107599			
NZMH2-VEF200-BT-NA 107840			
NZMH2-VEF225-BT-NA 107841			
NZMH2-VEF250-BT-NA 107842			
NZMH3-VEF250-NA 269316			
NZMH3-VEF300-NA 269317			
NZMH3-VEF350-NA 269318			
NZMH3-VEF400-NA 269319			
NZMH3-VEF450-NA 269320			
NZMH3-VEF500-NA 269321			
NZMH3-VEF550-NA 269322			
NZMH3-VEF600-NA 269323			
NZMH4-VEF600-NA 271142			
NZMH4-VEF700-NA 271143			
NZMH4-VEF800-NA 271144			
NZMH4-VEF900-NA 271145			
NZMH4-VEF1000-NA 271146			
NZMH4-VEF1200-NA 271147			

For Immediate Delivery call KMParts.com at (866) 595-9616

	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] Part no. Article no.	Price see price list
			Non-delayed	Delayed		
	$I_n = I_u$ A	I_r A	I_i A	I_{sd} A		
Systems, cable, transformer and generator protection						
3 pole						
Adjustable overload release Line and load Box Lugs installed						
	100	50 – 100	1200	100 – 1000	**NZMN2-VE100-BT-NA** 107843	
	160	80 – 160	1920	160 – 1600	**NZMN2-VE160-BT-NA** 107844	
	250	125 – 250	3000	250 – 2500	**NZMN2-VE250-BT-NA** 107845	
Terminal screws standard terminals as accessories						
	250	125 – 250	500 – 2750	250 – 2500	**NZMN3-VE250-NA** 269332	
	400	200 – 400	800 – 4400	400 – 4000	**NZMN3-VE400-NA** 269333	
	600	300 – 600	1200 – 4800	450 – 4200	**NZMN3-VE600-NA** 269334	
	800	400 – 800	1600 – 9600	800 – 8000	**NZMN4-VE800-NA** 271154	
	1000	500 – 1000	2000 – 12000	1000 – 10000	**NZMN4-VE1000-NA** 271155	
	1200	630 – 1200	2400 – 14400	1260 – 12000	**NZMN4-VE1200-NA** 271156	

Notes Notes for terminals → 71

	Rated current = rated uninterrupted current	Setting range Short-circuit releases	Normal switching capacity 480 V 600 V 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				
Line and load Box Lugs installed				
	90	180 – 1260	**NZMN2-SE90-BT-CNA** 107849	
	140	280 – 1960	**NZMN2-SE140-BT-CNA** 107850	
	220	440 – 3080	**NZMN2-SE220-BT-CNA** 107851	
Terminal screws standard terminals as accessories				
	220	440 – 3080	**NZMN3-SE220-CNA** 269341	
	350	700 – 4900	**NZMN3-SE350-CNA** 269342	
	450	900 – 6300	**NZMN3-SE450-CNA** 284465	

Notes Notes for terminals → 71

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

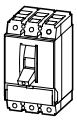
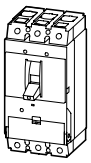
High switching capacity
65 kA 480 V
35 kA 600 V[3)]

Part no. Article no.	**Price** see price list	Std. pack	**Notes**
NZMH2-VE100-BT-NA 107846		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 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) i^2t 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 limiter high switching capacity with NZMH4-...-NA: 85 kA/480 V
NZMH2-VE160-BT-NA 107847			
NZMH2-VE250-BT-NA 107848			
NZMH3-VE250-NA 269335			
NZMH3-VE400-NA 269336			
NZMH3-VE600-NA 269337			
NZMH4-VE800-NA 271157			
NZMH4-VE1000-NA 271158			
NZMH4-VE1200-NA 271159			

Std. pack **Notes**

Std. pack	**Notes**
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 and IEC/EN 60947-4 Adjustable short-circuit release I_i • 2 – 14 × 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.

For Immediate Delivery call KMParts.com at (866) 595-9616

	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			
Line and load Box Lugs installed								
	160	100	50	2500	**NS2-160-BT-NA** 107578		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-BT-NA** 107579			
	250	100	50	2500	**NS2-250-BT-NA** 107610			
Terminal screws standard terminals as accessories								
	400	100	50	4800	**NS3-400-NA** 102687			**NS3 and NS4 currently under development. Contact your Moeller representative.**
	600	100	50	4800	**NS3-600-NA** 102688			
	800	100	50	14400	**NS4-800-NA** 102689			
	1000	100	50	14400	**NS4-1000-NA** 102690			
	1200	100	50	14400	**NS4-1200-NA** 102691			

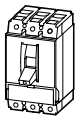
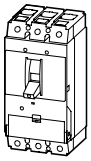
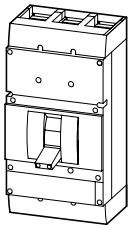
Notes

Notes for terminals → 67

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

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

	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	–			1 off
	100	125	150	10	–			
	125	125	150	10	–			
Line and load Box Lugs installed								
	160	250	225	10	10			1 off
Terminal screws standard terminals as accessories								
	400	630	–[2]	14	14	**N3-400-NA** 271169		1 off
	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 to N disconnect switches.
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.

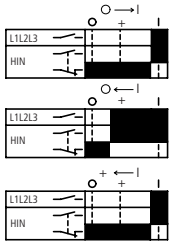
Notes for terminals → 67

[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.

For Immediate Delivery call KMParts.com at (866) 595-9616

Contact sequence of the auxiliary contacts

Standard auxiliary contact (HIN)



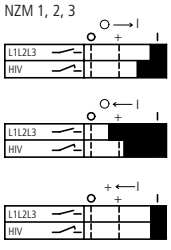
0 → I Switch-on ■ Contact closed
□ Contact open

0 ← I Switch-off

+ ← I Trip

Early-make auxiliary contact (HIV)

NZM 1, 2, 3

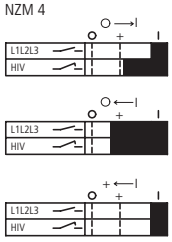


0 → I Switch-on ■ Contact closed
□ Contact open

0 ← I Switch-off

+ ← I Trip

NZM 4

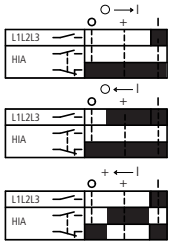


0 → I Switch-on ■ Contact closed
□ Contact open

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

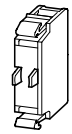
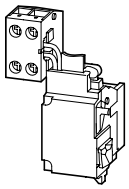
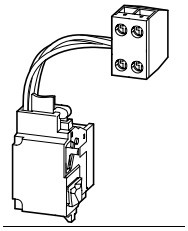
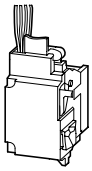
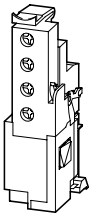
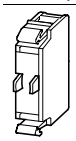
Maximum component fitting		NZM1	NZM2	NZM3	NZM4
HIN	1 N/O or 1 N/C	1	2	3	3
HIA	1 N/O or 1 N/C	1	1	1	2
HIV	2 N/O	1	1	1	1

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

For Immediate Delivery call KMParts.com at (866) 595-9616

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

		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
Auxiliary contacts							
Standard auxiliary contact Switching with the main contacts Used for indicating and interlocking tasks							
		NZM1, 2, 3, 4 N1, 2, 3, 4	1 N/O	–		**M22-K10** 216376	
			–	1 N/C ⊖		**M22-K01** 216378	
Early-make auxiliary contact For interlock and load-shedding circuits							
	With clamp terminal on the left-hand switch side.	NZM1 N1	2 N/O	–		**NZM1-XHIV** 259426	
	With clamp terminal on the right-hand switch side.		2 N/O	–		**NZM1-XHIVR** 292195	
	With 3 m connection cable instead of screw termination.		2 N/O	–		**NZM1-XHIVL** 259432	
		NZM2, 3 N2, 3	2 N/O	–		**NZM2/3-XHIV** 259430	
		NZM4 N4	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, 2, 3, 4 N1, 2, 3, 4	1 N/O	–		**M22-K10** 216376	
			–	1 N/C ⊖		**M22-K01** 216378	

For Immediate Delivery call KMParts.com at (866) 595-9616

Notes

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

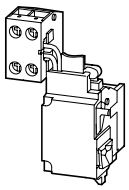
Not in conjunction with undervoltage release NZM...-XU(C)... or shunt release NZM...-XA(C)...
Early-make with on and off switching (manual operation): approx. 20 ms

Not in conjunction with undervoltage release NZM...-XU(C)..., shunt release NZM...-XA(C)... or remote operator NZM...-XR...
Early-make with switch on (manual operation): approx. 90 ms

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

For Immediate Delivery call KMParts.com at (866) 595-9616

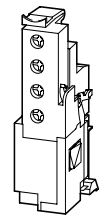
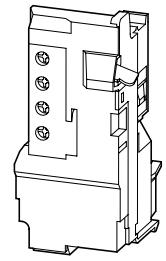
		For use with	Rated control voltage U_s V	**Part no.** Article no. when ordered separately
Undervoltage releases				
Without auxiliary contact Non-delayed disconnection of NZM circuit-breakers or N disconnect switches when the control voltage sinks below 35 – 70% U_S. For use with Emergency-Stop devices in conjunction with Emergency-Stop button.				
		With clamp terminal on the left-hand switch side.	NZM1, N1	24 V 50/60 Hz	**NZM1-XU24AC** 259434
				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
				110 V – 130 V DC	**NZM1-XU110-130DC** 259458
				220 V – 250 V DC	**NZM1-XU220-250DC** 259460

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

Std. pack	**Notes**
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.

For Immediate Delivery call KMParts.com at (866) 595-9616

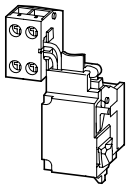
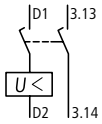
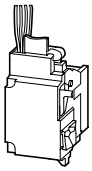
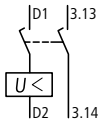
			For use with	Rated control voltage U_s V	**Part no.** Article no. when ordered separately
Undervoltage releases					
Without auxiliary contact Non-delayed disconnection of NZM circuit-breakers or N disconnect switches when the control voltage sinks below 35 – 70% U_S. For use with Emergency-Stop devices in conjunction with Emergency-Stop button.					
		–	NZM2, N2 NZM3, N3	24 V 50/60 Hz	**NZM2/3-XU24AC** 259491
				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
				110 V 130 V DC	**NZM2/3-XU110-130DC** 259515
				220 V – 250 V DC	**NZM2/3-XU220-250DC** 259517
		–	NZM4, N4	24 V 50/60 Hz	**NZM4-XU24AC** 266189
				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
				110 V – 130 V DC	**NZM4-XU110-130DC** 266207
				220 V – 250 V DC	**NZM4-XU220-250DC** 266208

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

Std. pack	Notes
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.
1 off	

For Immediate Delivery call KMParts.com at (866) 595-9616

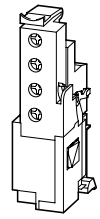
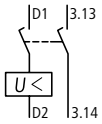
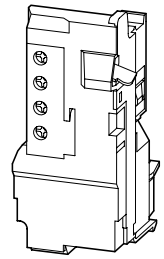
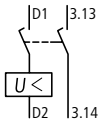
			For use with	Rated control voltage U_s V	**Part no.** Article no. when ordered separately
Undervoltage releases					
With two early-make auxiliary contacts For interlocking and load-shedding circuits, as well as for early-make of the undervoltage release in main-switch applications.					
		With clamp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

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

Std. pack	**Notes**
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.
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.

For Immediate Delivery call KMParts.com at (866) 595-9616

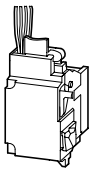
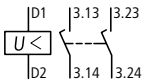
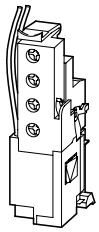
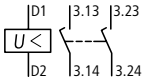
		For use with	Rated control voltage U_s V	**Part no.** Article no. when ordered separately
Undervoltage releases				
With two early-make auxiliary contacts For interlocking and load-shedding circuits, as well as for early-make of the undervoltage release in main-switch applications.				
		NZM2, N2 NZM3, N3	24 V 50/60 Hz	**NZM2/3-XUHIV24AC** 259583
			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
			110 V 130 V DC	**NZM2/3-XUHIV110-130DC** 259608
			220 V – 250 V DC	**NZM2/3-XUHIV220-250DC** 259610
		NZM4, N4	24 V 50/60 Hz	**NZM4-XUHIV24AC** 266217
			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
			110 V – 130 V DC	**NZM4-XUHIV110-130DC** 266235
			220 V – 250 V DC	**NZM4-XUHIV220-250DC** 266236

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

Std. pack	**Notes**
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.
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 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.

For Immediate Delivery call KMParts.com at (866) 595-9616

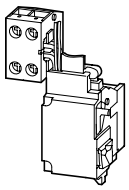
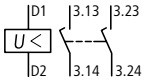
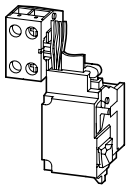
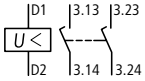
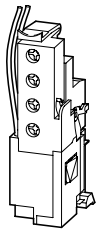
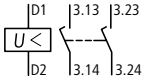
		For use with	Rated control voltage U_s V	Part no. Article no. when ordered separately	Price see price list	Std. pack
Undervoltage releases						
With two separate early-make auxiliary contacts						
With 3 m connection cable instead of screw termination.						
		NZM1, N1	24 V 50/60 Hz	**NZM1-XUHIV20L24AC** 259612		1 off
			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		
Contacts 3.23 and 3.24 with separate 3 m connection cables.						
		NZM2, N2 NZM3, N3	24 V 50/60 Hz	**NZM2/3-XUHIV2024AC** 259640		1 off
			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		

Notes

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.

For Immediate Delivery call KMParts.com at (866) 595-9616

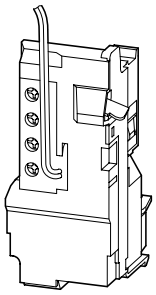
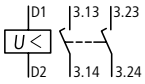
Moeller SK1230-1157EN-NA

		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, N1	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, N1	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, N2 NZM3, N3	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 contacts of the switch during attempts to turn on the switch 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.

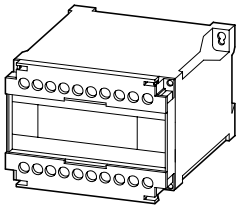
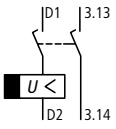
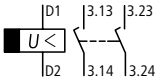
For Immediate Delivery call KMParts.com at (866) 595-9616

		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, N4	24 V 50/60 Hz	**NZM4-XUHIV2024AC** 266244		1 off
			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		
			24 V DC	**NZM4-XUHIV2024DC** 266258		

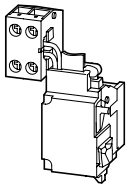
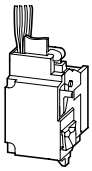
Notes

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 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.

For Immediate Delivery call KMParts.com at (866) 595-9616

	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.					
Not UL/CSA approved					
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, 2, 3, 4 N1, 2, 3, 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 N1	**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, N2 NZM3, N3	**NZM2/3-XUV** 259527			
	NZM4 N4	**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 N1	**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, N2 NZM3, N3	**NZM2/3-XUVHIV** 259684			
	NZM4 N4	**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 N1	**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, N2 NZM3, N3	**NZM2/3-XUVHIV20** 259688			
	NZM4 N4	**NZM4-XUVHIV20** 266604			

For Immediate Delivery call KMParts.com at (866) 595-9616

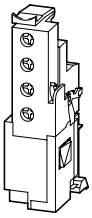
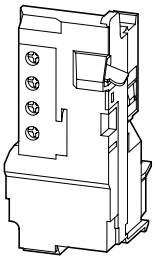
			For use with	Rated control voltage U_s V	**Part no.** Article no. when ordered separately
Shunt releases					
Without auxiliary contact Switches are tripped by a voltage pulse or by the application of uninterrupted voltage.					
		With clamp terminal on the left-hand switch side.	NZM1, N1	12 V AC/DC	**NZM1-XA12AC/DC** 259706
				24 V AC/DC	**NZM1-XA24AC/DC** 259708
				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
		With 3 m connection cable instead of screw termination.	NZM1, N1	12 V AC/DC	**NZM1-XAL12AC/DC** 259734
				24 V AC/DC	**NZM1-XAL24AC/DC** 259736
				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

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

Std. pack	**Notes**
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.
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.

For Immediate Delivery call KMParts.com at (866) 595-9616

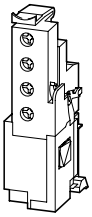
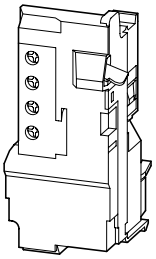
			For use with	Rated control voltage U_s V	**Part no.** Article no. when ordered separately
Shunt releases					
Without auxiliary contact Switches are tripped by a voltage pulse or by the application of uninterrupted voltage.					
		–	NZM2, N2 NZM3, N3	12 V AC/DC	**NZM2/3-XA12AC/DC** 259752
				24 V AC/DC	**NZM2/3-XA24AC/DC** 259754
				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
		–	NZM4, N4	12 V AC/DC	**NZM4-XA12AC/DC** 266446
				24 V AC/DC	**NZM4-XA24AC/DC** 266447
				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

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

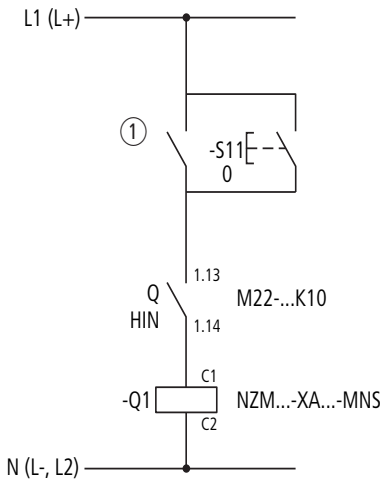
Std. pack	**Notes**
1 off	When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on, is safely prevented. Shunt release cannot be installed simultaneously with NZM...-XHIV... early-make auxiliary contact or NZM...-XU... undervoltage release.
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.

For Immediate Delivery call KMParts.com at (866) 595-9616

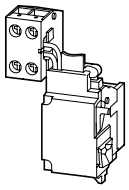
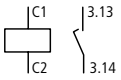
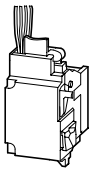
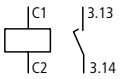
		For use with	Rated control voltage U_s V	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack
Shunt releases						
Without auxiliary contacts For mesh-network circuit-breakers For intermittent operation Maximum on time = 1 s Operating range 10 – 110 % U_s not UL/CSA approved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

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

Std. pack	Notes
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.
1 off	 ① Reverse-power relay contact -S11 Remote off Q Standard auxiliary contact -Q1 Shunt release

For Immediate Delivery call KMParts.com at (866) 595-9616

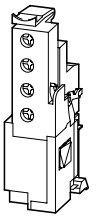
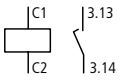
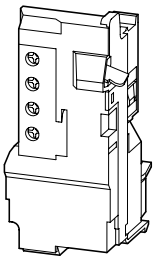
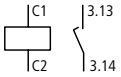
			For use with	Rated control voltage U_s V	**Part no.** Article no. when ordered separately
Shunt releases					
With early-make auxiliary contact					
		With clamp terminal on the left-hand switch side.	NZM1, N1	12 V AC/DC	**NZM1-XAHIV12AC/DC** 259772
				24 V AC/DC	**NZM1-XAHIV24AC/DC** 259774
				110 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, N1	12 V AC/DC	**NZM1-XAHIVL12AC/DC** 259790
				24 V AC/DC	**NZM1-XAHIVL24AC/DC** 259792
				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

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

Std. pack	**Notes**
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.
1 off	

For Immediate Delivery call KMParts.com at (866) 595-9616

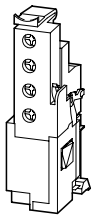
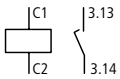
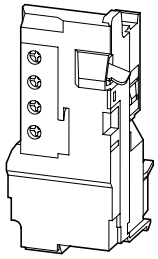
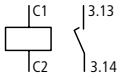
			For use with	Rated control voltage U_s V	**Part no.** Article no. when ordered separately
Shunt releases					
With early-make auxiliary contact					
		–	NZM2, N2 NZM3, N3	12 V AC/DC	**NZM2/3-XAHIV12AC/DC** 259808
				24 V AC/DC	**NZM2/3-XAHIV24AC/DC** 259810
				110 V – 130 V AC/DC	**NZM2/3-XAHIV110-130AC/DC** 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, N4	12 V AC/DC	**NZM4-XAHIV12AC/DC** 266470
				24 V AC/DC	**NZM4-XAHIV24AC/DC** 266471
				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

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

Std. pack	**Notes**
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.
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.

For Immediate Delivery call KMParts.com at (866) 595-9616

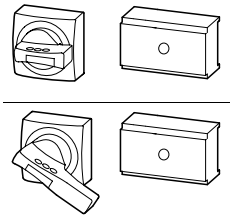
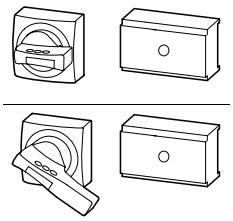
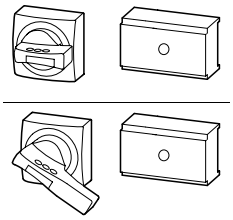
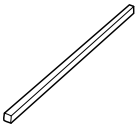
		For use with	Rated control voltage U_s V	**Part no.** Article no. when ordered separately
Shunt releases				
With early-make auxiliary contact For mesh-network circuit-breakers For intermittent operation Maximum on time = 1 s Operating range 10 – 110 % U_s not UL/CSA approved				
		NZM3, N3	230 V AC	**NZM3-XAHIV-230AC-MNS** 274141
		NZM4, N4	230 V AC	**NZM4-XAHIV-230AC-MNS** 274143

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

Std. pack	Notes
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.
1 off	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.

For Immediate Delivery call KMParts.com at (866) 595-9616

		For use with	Part no. Article no. when ordered separately	Price see price list	Std. pack	Notes
CSA only						
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						
	Lockable in 0 position on handle. With door interlock	NZM1, N1	**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
		NZM2, N2	**NZM2-XTVD** 260168			
		NZM3, N3	**NZM3-XTVD** 260170			
		NZM4, N4	**NZM4-XTVD** 266614			
	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, N1	**NZM1-XTVDV** 260172			
		NZM2, N2	**NZM2-XTVDV** 260174			
		NZM3, N3	**NZM3-XTVDV** 260176			
		NZM4, N4	**NZM4-XTVDV** 266616			
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, N1	**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
		NZM2, N2	**NZM2-XTVDVR** 260180			
		NZM3, N3	**NZM3-XTVDVR** 260182			
		NZM4, N4	**NZM4-XTVDVR** 266618			
Extension shaft						
	Max. mounting depth: 400 mm	NZM1, N1 NZM2, N2	**NZM1/2-XV4** 261232		1 off	Can be cut to required length
		NZM3, N3 NZM4, N4	**NZM3/4-XV4** 261234			
	Max. mounting depth: 600 mm	NZM1, N1 NZM2, N2	**NZM1/2-XV6** 260191			
		NZM3, N3 NZM4, N4	**NZM3/4-XV6** 260193			

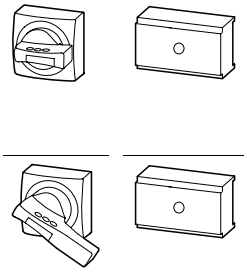
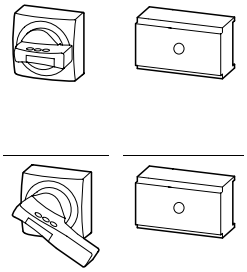
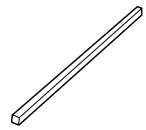
Notes Circuit-breaker can also be installed in a lying position 90° left/right, with the handle still in the same position.

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

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**
NZM1-XTVDV-60 271508			Door interlock • 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-XTVDV-0** 279396			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...-XTVDV-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-XTVDV-60 271509				**NZM2-XTVDV-0** 279397			
NZM3-XTVDV-60 271510				**NZM3-XTVDV-0** 279398			
NZM4-XTVDV-60 271511				**NZM4-XTVDV-0** 279399			
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-XTVDVR-60 271513				**NZM2-XTVDVR-0** 279401			
NZM3-XTVDVR-60 271514				**NZM3-XTVDVR-0** 279402			
NZM4-XTVDVR-60 271515				**NZM4-XTVDVR-0** 279403			

For Immediate Delivery call KMParts.com at (866) 595-9616

		For use with	Standard **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 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
		NZM2, N2	**NZM2-XTVDV-NA** 100684			
		NZM3, N3	**NZM3-XTVDV-NA** 100685			
		NZM4, N4	**NZM4-XTVDV-NA** 100686			
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
		NZM2, N2	**NZM2-XTVDVR-NA** 271450			
		NZM3, N3	**NZM3-XTVDVR-NA** 271451			
		NZM4, N4	**NZM4-XTVDVR-NA** 271452			
Extension shaft						
	Max. mounting depth: 400 mm	NZM1, N1 NZM2, N2	**NZM1/2-XV4** 261232		1 off	Can be cut to required length
		NZM3, N3 NZM4, N4	**NZM3/4-XV4** 261234			
	Max. mounting depth: 600 mm	NZM1, N1 NZM2, PN2, N2	**NZM1/2-XV6** 260191			
		NZM3, N3 NZM4, N4	**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.

For Immediate Delivery call KMParts.com at (866) 595-9616

For a max. shaft length of 60 mm			Extremely narrow fittings			
Part no. Article no. when ordered separately	**Price** see price list	**Notes**	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
NZM1-XTVDV-60-NA 100667 **NZM2-XTVDV-60-NA** 100668 **NZM3-XTVDV-60-NA** 100669 **NZM4-XTVDV-60-NA** 100670		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/ designation label can be clipped on	**NZM1-XTVDV-0-NA** 100675 **NZM2-XTVDV-0-NA** 100676 **NZM3-XTVDV-0-NA** 100677 **NZM4-XTVDV-0-NA** 100678		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 on
NZM1-XTVDVR-60-NA 100671 **NZM2-XTVDVR-60-NA** 100672 **NZM3-XTVDVR-60-NA** 100673 **NZM4-XTVDVR-60-NA** 100674		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/ designation label can be clipped on	**NZM1-XTVDVR-0-NA** 100679 **NZM2-XTVDVR-0-NA** 100680 **NZM3-XTVDVR-0-NA** 100681 **NZM4-XTVDVR-0-NA** 100682		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 on

For Immediate Delivery call KMParts.com at (866) 595-9616

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

For Immediate Delivery call KMParts.com at (866) 595-9616

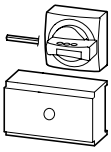
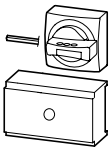
For Immediate Delivery call KMParts.com at (866) 595-9616

CSA only

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

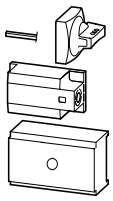
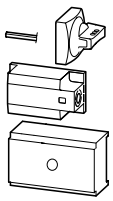
For enhanced protection against direct contact on the incomer side, IP2X protection against contact with a finger can be ordered → 68
Other external warning plates/designation labels can be clipped on.

			For use with	Part no. Article no. when ordered separately	Price see price list	Std. pack
With black door coupling rotary handle						
	Lockable in 0 position on handle. With door interlock	–	NZM1 N1	**NZM1-XHB** 266626		1 off
			NZM2 N2	**NZM2-XHB** 266627		
			NZM3 N3	**NZM3-XHB** 266628		
			NZM4 N4	**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 N1	**NZM1-XHBR** 266632		
			NZM2 N2	**NZM2-XHBR** 266633		
			NZM3 N3	**NZM3-XHBR** 266634		
			NZM4 N4	**NZM4-XHBR** 271842		

Main switch assembly kit for side panel mounting

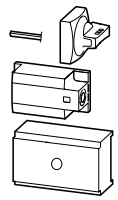
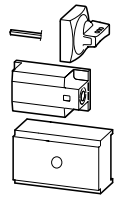
Actuation of the switch on the control panel side wall
Switch mounting on mounting plate
Equipment supplied:
- Door coupling rotary handle
- NZM...-XV4 extension shaft
- External warning plate/designation label in German/English
- Black and yellow flash

For enhanced protection against direct contact on the incomer side, IP2X protection against contact with a finger can be ordered → 68
Other external warning plates/designation labels can be clipped on.

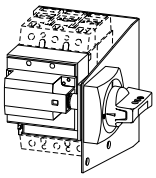
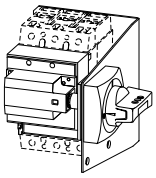
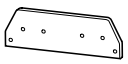
			For use with	Part no. Article no. when ordered separately	Price see price list	Std. pack
Standard, black/grey						
	Can be locked in 0 position, with adequate modification also in I position.	For operation on the left	NZM1 N1	**NZM1-XS-L** 266641		1 off
			NZM2 N2	**NZM2-XS-L** 266642		
			NZM3 N3	**NZM3-XS-L** 266643		
			NZM4 N4	**NZM4-XS-L** 289806		
		For operation on the right	NZM1 N1	**NZM1-XS-R** 266644		
			NZM2 PN2, N2	**NZM2-XS-R** 266645		
			NZM3 N3	**NZM3-XS-R** 266646		
			NZM4 N4	**NZM4-XS-R** 289807		
Red-yellow for Emergency-Stop						
	Lockable in 0 position on handle.	For operation on the left	NZM1 N1	**NZM1-XSR-L** 266653		
			NZM2 N2	**NZM2-XSR-L** 266654		
			NZM3 N3	**NZM3-XSR-L** 266655		
			NZM4 N4	**NZM4-XSR-L** 289808		
		For operation on the right	NZM1 N1	**NZM1-XSR-R** 266656		
			NZM2 N2	**NZM2-XSR-R** 266657		
			NZM3 N3	**NZM3-XSR-R** 266658		
			NZM4 N4	**NZM4-XSR-R** 289809		

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

			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 → 68 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, N1	**NZM1-XSF-L** 289810		1 off
			NZM2, N2	**NZM2-XSF-L** 289811		
			NZM3, N3	**NZM3-XSF-L** 289812		
			NZM4, N4	**NZM4-XSF-L** 289813		
		For operation on the right	NZM1, N1	**NZM1-XSF-R** 289814		
			NZM2, N2	**NZM2-XSF-R** 289815		
			NZM3, N3	**NZM3-XSF-R** 289816		
			NZM4, N4	**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, N1	**NZM1-XSRF-L** 289818		1 off
			NZM2, N2	**NZM2-XSRF-L** 289819		
			NZM3, N3	**NZM3-XSRF-L** 289820		
			NZM4, N4	**NZM4-XSRF-L** 289821		
		For operation on the right	NZM1, N1	**NZM1-XSRF-R** 289822		
			NZM2, N2	**NZM2-XSRF-R** 289823		
			NZM3, N3	**NZM3-XSRF-R** 289824		
			NZM4, N4	**NZM4-XSRF-R** 289825		

For Immediate Delivery call KMParts.com at (866) 595-9616

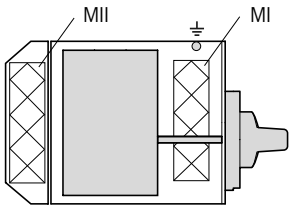
		For use with		Part no. Article no. when ordered separately	Price see price list	Std. pack
CSA only						
Main switch assembly kit for side panel mounting with mounting bracket						
For direct mounting of circuit-breaker and handle in the side wall of the control cabinet Equipment supplied: • Door coupling 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 → 68 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 N1	**NZM1-XSM-L** 266663		1 off
		For operation on the left	NZM2 N2	**NZM2-XSM-L** 266664		
		For operation on the right	NZM1 N1	**NZM1-XSM-R** 266665		
		For operation on the right	NZM2 N2	**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 N1	**NZM1-XSRM-L** 266671		1 off
		For operation on the left	NZM2 N2	**NZM2-XSRM-L** 266672		
		For operation on the right	NZM1 N1	**NZM1-XSRM-R** 266673		
		For operation on the right	NZM2 N2	**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, N1 NZM2, N2	**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

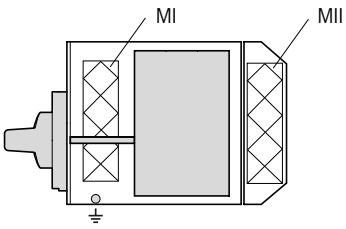
Actuation:

3-pole

For operation on the right



For operation on the left



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 ×

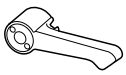
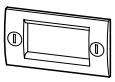
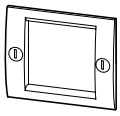
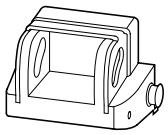
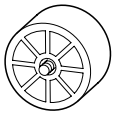
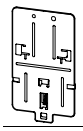
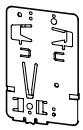
Example: In mounting area MI, variation option 1 allows the K25 additional terminal to be mounted twice.

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

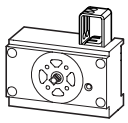
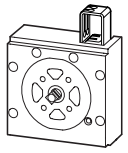
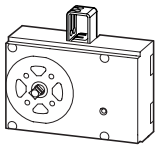
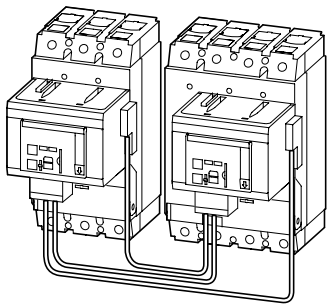
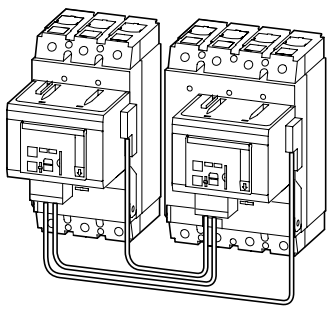
		For use with	Part no. Article no. when ordered separately	Price see price list	Std. pack	Notes
External warning/marking plate						
"Main switch – open in 0 position"						
German/English		NZM1, N1 NZM2, N2 NZM3, N3 NZM4, N4	**ZFS61/62-NZM7** 272525		10 off	A bilingual external warning plate/ designation 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, N1 NZM2, N2	**BPF-NZM7** 217294		10 off	Included as standard in main switch assembly kit
large		NZM3, N3 NZM4, N4	**BPF-NZM10** 231363		10 off	

For Immediate Delivery call KMParts.com at (866) 595-9616

	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, N1 NZM2, N2	**NZM1/2-XDZ** 266621		1 off	Push-fits on to the extension shaft 100 mm free extension shaft required.
	NZM3, N3 NZM4, N4	**NZM3/4-XDZ** 266622		1 off	
Insulating surrounds					
For toggle lever, rotary handle with rotary drive and remote operator.					
	NZM1 N1	**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 N2	**NZM2-XBR** 260197			
	NZM3 N3	**NZM3-XBR** 284645			
	NZM4 N4	**NZM4-XBR** 284646			
Toggle lever locking device					
Off position lockable using up to 3 padlocks (hasp thickness 4 – 8 mm)					
	NZM1 N1	**NZM1-XKAV** 260199		1 off	Cannot be combined with insulating surround.
	NZM2, N2 NZM3, N3	**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, N1 NZM2, N2	**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 N3 NZM4 N4	**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 N1	**NZM1-XC35** 260213		1 off	For top-hat rail 35 mm
	NZM2 N2	**NZM2-XC75** 260215		1 off	For top-hat rail 75 mm Not suitable for circuit-breakers with remote operator.

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

	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 N1	**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 N2	**NZM2-XMV** 281582			
	NZM3 N3	**NZM3-XMV** 281583			
	NZM4 N4	**NZM4-XMV** 281584			
Bowden cables					
For mechanical interlocking of (door coupling) rotary handles					
	NZM1, N1 NZM2, N2 NZM3, N3 NZM4, N4	**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

For Immediate Delivery call KMParts.com at (866) 595-9616

	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 disconnect switches. 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 N2	110 – 130 V 50/60 Hz	**NZM2-XR110-130AC** 259830		1 off
		208 – 240 V 50/60 Hz	**NZM2-XR208-240AC** 259832		
		380 – 440 V 50/60 Hz	**NZM2-XR380-440AC**[1] 259834		
		24 – 30 V DC	**NZM2-XR24-30DC** 259836		
		110 – 130 V DC	**NZM2-XR110-130DC** 259840		
		220 – 250 V DC	**NZM2-XR220-250DC** 259842		
	NZM3 N3	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**[1] 259852		
		24 – 30 V DC	**NZM3-XR24-30DC** 259854		
		110 – 130 V DC	**NZM3-XR110-130DC** 259858		
		220 – 250 V DC	**NZM3-XR220-250DC** 259860		
	NZM4 N4	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		
Clamp terminal springloaded clamp Control circuit terminal springloaded terminals					
	NZM...-XR...	–	**NZM-XRC** 266696		1 off

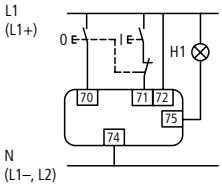
Notes [1] Not UL/CSA approved.

For Immediate Delivery call KMParts.com at (866) 595-9616

Notes

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

3-wire control



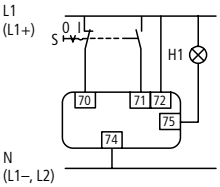
Terminal 70/71:

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



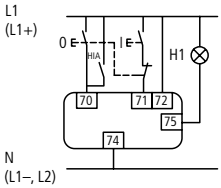
Terminal 75:

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

AC-15: 400 V; 2 A

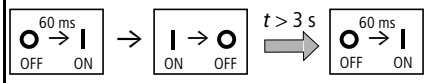
DC-13: 220 V; 0.2 A

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

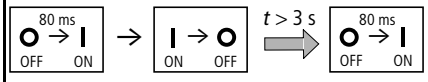


Switching cycle:

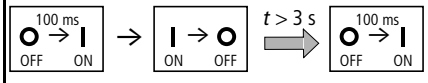
NZM2-XR



NZM3-XR



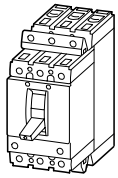
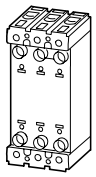
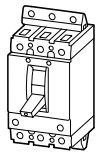
NZM4-XR



The time interval between OFF and ON is 3 seconds.

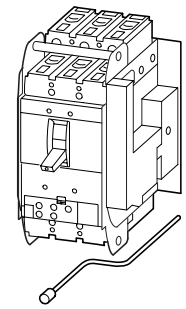
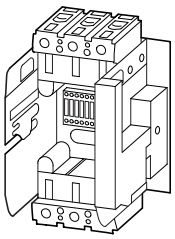
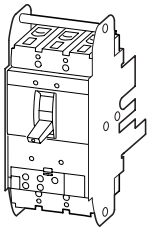
On commands received during the time interval are ignored within the first 3 seconds after switch off.

For Immediate Delivery call KMParts.com at (866) 595-9616

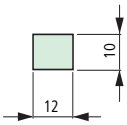
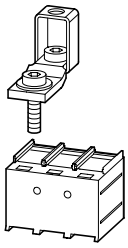
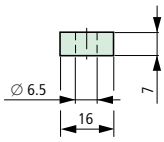
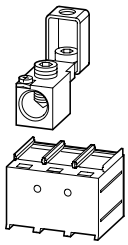
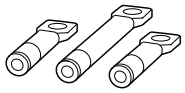
	For use with	Number of poles	**Part no.** Article no. when ordered with basic unit	**Price** see price list	**Part no.** Article no. when ordered separately	**Price** see price list	Std. pack	**Notes**
Plug-in units								
For circuit-breakers NZM and disconnect switches N not UL/CSA approved								
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!
Sockets e.g. for reserved slots Retrofit of circuit-breaker with plug-in module.								
	NZM2 N2	3 pole			**NZM2-XSVS** 266699		1 off	
Removable module Fits socket base Only in combination with circuit-breaker								
	NZM2 N2	3 pole	**+NZM2-XSVE** 266701				1 off	
Control circuit plug unit								
	NZM2 N2	for auxiliary contact, shunt/undervoltage			**NZM2-XSVHI** 266705		1 off	–
	NZM2 N2	for remote operator			**NZM2-XSVR** 266706		1 off	–

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

	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 disconnect switches 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.
	NZM4 N4	3 pole	**+NZM4-XAV** 266709					
Socket base e.g. for reserved slots Retrofit of circuit-breaker with withdrawable carrier.								
	NZM3 N3	3 pole			**NZM3-XAVS** 266711		1 off	
	NZM4 N4	3 pole			**NZM4-XAVS** 266713			
Withdrawable carrier Not UL/CSA approved.								
	NZM3 N3	3 pole	**+NZM3-XAVE** 266715				1 off	
	NZM4 N4	3 pole	**+NZM4-XAVE** 266717					

For Immediate Delivery call KMParts.com at (866) 595-9616

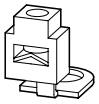
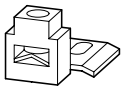
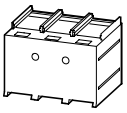
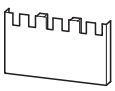
	Max. cable connection	For use with		Terminal capacities Type of conductor	Terminal capacities mm²	AWG/kcmil
Box terminal Standard equipment						
		NZM1, N(S)1	Three pole	Cu cable	1 × 10 – 70[1)] 2 × 6 – 25	1 × 8 – 2/0
Screw connection						
		NZM1, N(S)1	Three pole	Copper cable lugs Aluminium cable lugs	1 × 10 – 70 2 × 6 – 25 1 × 10 – 35 2 × 10 – 35	1 × 8 – 2/0
Tunnel terminal						
	– –	NZM1, N(S)1	Three pole	Copper cable Al cable	1 × 16 – 95	1 × 6 – 3/0
Connection on rear not UL/CSA approved						
	– –	NZM1, N(S)1	Three pole	Copper cable lugs	1 × 2.5 – 25 2 × 2.5 – 25 1 × 10 – 35 2 × 10 – 35	

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

For Immediate Delivery call KMParts.com at (866) 595-9616

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**
2 × 9 × 0.8		**NZM1-XKC** 260015		1 off	Standard connection with all switches NZM1, and N(S)1. Conversion kit for circuit-breaker with screw connection. Type contains parts for a 3 pole switch side. Fitted within the switch housing
	min. 12 × 5	**NZM1-XKS** 260019		1 off	Type contains parts for a terminal located at top or bottom for 3 pole circuit-breakers. Fitted outside the switch housing Mounting of the cover NZM1-XKSA obligatory (supplied).
		NZM1-XKA 266730		1 off	Type contains parts for a terminal located at top or bottom for 3 pole circuit-breakers. A standard with control circuit terminal for 1 × 0.75 – 2.5 mm^2 (18 – 14 AWG) or 2 × 0.75 – 1.5 mm^2 (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-XKSA obligatory (supplied).
	min. 12 × 5 max. 16 × 5	**NZM1-XKR** 266734		1 off	Type contains parts for a terminal located at top or bottom for 3 pole circuit-breakers.

For Immediate Delivery call KMParts.com at (866) 595-9616

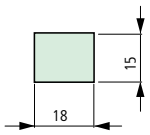
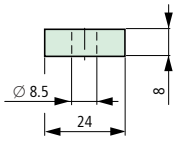
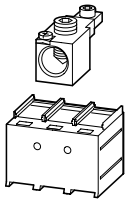
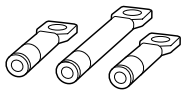
	Max. cable connection	For use with		Terminal capacities Type of conductor	Terminal capacities mm²	AWG/kcmil
Control circuit terminal						
	–	NZM1, N(S)1	Three- and four-pole	Screw connection	1 × 0.75 – 2.5 2 × 0.75 – 1.5	1 × 18 – 14 2 × 18 – 16
	–			Box terminal		
Cover						
	–	NZM1, N(S)1	3 pole			
	–					
Connection cover, knockout						
For box terminals						
	–	NZM1, N1	3 pole			
		NZM1, N1				
IP2X protection against contact with a finger						
For box terminals						
	–	NZM1, N1	3 pole			
		NZM1, N1				
For cover NZM1-XKSA or NZM1...(C)NA, N(S)1...NA						
	–	NZM1, NS1	3 pole			

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

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**
		NZM1-XSTS 260150		1 off	Type contains parts for two terminal locations located at top or bottom for 3 pole circuit-breakers. Included as standard with tunnel terminal Degree of protection IP1X NZM-XSTK cannot be combined with NZM1-XIPK IP2X protection against contact with a finger. Height or thickness of the control terminals: NZM-XSTK = 2 mm NZM-XSTS = 2 mm
		NZM-XSTK 266739		1 off	
		NZM1-XKSA 260021		1 off	Type contains parts for a terminal located at top or bottom for 3 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.
		NZM1-XKSFA 100780		1 off	Type contains parts for a terminal located at top or bottom for 3 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-XIPK 266744		1 off	Type contains parts for a terminal located at top or bottom for 3 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-XIPA 266748		1 off	Type contains parts for a terminal located at top or bottom for 3 pole circuit-breakers. Enhancement of the protection against direct contact to IP2X.

For Immediate Delivery call KMParts.com at (866) 595-9616

	Max. cable connection area	For use with		Terminal capacities Type of conductor	Terminal capacities Terminal capacities mm²	AWG/kcmil	Terminal capacities Cu strip (number of segments × width × segment thickness) mm
Box terminal							
		NZM2, N(S)2	Three pole	Copper conductors Cu cable	1 × 4 – 185 2 × 4 – 70	1 × 11 – 350	≧ 2 × 9 × 0.8
Screw connection							
		NZM2, N(S)2	Three 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
Tunnel terminal							
	–	NZM2, N(S)2	Three pole	Copper cable Copper cable	1 × 16 – 185[1)] –	1 × 6 – 350 –	
Connection on rear							
not UL/CSA approved When using cable lugs **without** NZM3-XKSA cover, they must be insulated.							
	– – – –	NZM2, N2	Three 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

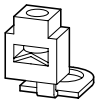
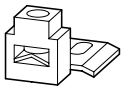
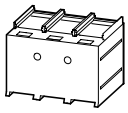
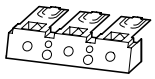
Notes [1)] Up to 240 mm² can be connected depending on the cable manufacturer.

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

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**
	+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 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-XKSA.
	+NZM2-160-XKCU 262223					
	+NZM2-250-XKCO 262242		**NZM2-250-XKC** 262244			
	+NZM2-250-XKCU 262243					
≧ 16 × 5			**NZM2-XKS** 260030		1 off	Type contains parts for a terminal located at top or bottom for 3 pole circuit-breakers. Standard connection with all NZM2 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-XKSA are necessary. U_e ≧ 525 V AC: • On all other connection types a shroud NZM2-XKSA should be used.
			NZM2-XKA 271457		1 off	Type contains parts for a terminal located at top or bottom for 3 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-XKSA obligatory (supplied).
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 pole circuit-breakers. O = for fitting at the top U = for fitting at the bottom
	+NZM2-XKRU 266764					

For Immediate Delivery call KMParts.com at (866) 595-9616

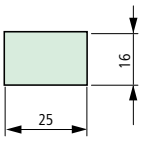
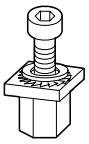
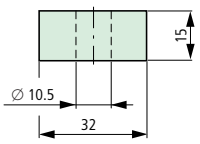
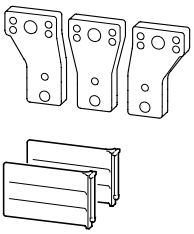
	Max. cable connection area		For use with		Terminal capacities Type of conductor	Terminal capacities mm²	AWG/kcmil
Control circuit terminal							
	–	–	NZM2, N(S)2	Three pole	Screw connection	1 × 0.75 – 2.5 2 × 0.75 – 1.5	1 × 18 – 14 2 × 18 – 16
	–	–	NZM2, N(S)2	Three pole	Box terminal	1 × 0.75 – 2.5 2 × 0.75 – 1.5	1 × 18 – 14 2 × 18 – 16
Cover							
	–	–	NZM2, NS2	3 pole			
Connection cover, knockout							
	–	–	NZM2, N(S)2	3 pole			
IP2X protection against							
For box terminals							
	–		NZM2, N(S)2	3 pole			
For covers NZM2-XKSA or NZM2 or NZM2...(C)NA and N(S)2...NA							
	–		NZM2, N(S)2	3-pole			
Copper cable lug							
not UL/CSA approved When using cable lugs **without** NZM2-XKSA cover, they must be insulated.							
	–	95 mm²	NZM2, N2	Three pole			
	–	120 mm²					
	–	150 mm²					
	–	185 mm²					

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

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**
				NZM2-XSTS 260156		1 off	Type contains parts for two terminal locations located at top or bottom for 3 pole circuit-breakers. Included as standard with tunnel terminal Degree of protection IP1X NZM-XSTK cannot be combined with NZM2-XIPK IP2X protection against contact with a finger. Height or thickness of the control circuit terminals: NZM-XSTK = 2 mm NZM-XSTS = 2 mm
				NZM-XSTK 266739		1 off	
				NZM2-XKSA 260038		1 off	Type contains parts for a terminal located at top or bottom for 3 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-XKSFA 104640		1 off	Type contains parts for a terminal located at top or bottom for 3 pole circuit-breakers. Enhancement of the protection against direct contact (simplified protection against contact with a finger).
				NZM2-XIPK 266773		1 off	Type contains parts for a terminal located at top or bottom for 3 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-XIPA 266777		1 off	Type contains parts for a terminal located at top or bottom for 3 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.
				KS95-NZM7 059775		3 off	Type contains a cable lug for 3 pole switches. Special cable lug, narrow style
				KS120-NZM7 059776			
				KS150-NZM7 059777			
				NZM2-XKS185 260032			

For Immediate Delivery call KMParts.com at (866) 595-9616

	Max. cable connection	Rated current[1] I_n A	For use with		Terminal capacities Type of conductor	Terminal capacities mm²	AWG/kcmil
Box terminal							
		Max. 500 400 UL/CSA Max. 630	NZM3, N(S)3	Three pole	Copper conductors Cu cable	1 × 35 – 240 2 × 16 – 120	1 × 2 – 500
Screw connection							
		Max. 630 Max. 400	NZM3, N(S)3	Three pole	Copper cable lugs Aluminium cable lugs	1 × 16 – 240 2 × 16 – 240 1 × 10 – 120 2 × 10 – 120	1 × 4 – 350
Connection width extension							
		Max. 630	NZM3, N(S)3	Three pole	Copper cable lugs Aluminium cable lugs	2 × 300	2 × 500

Notes

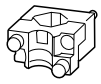
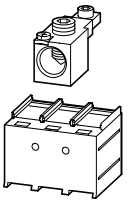
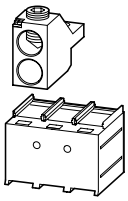
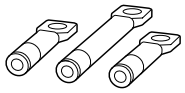
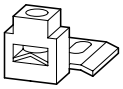
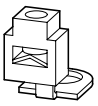
[1] The following applies for the rated current: The values have been determined conform to IEC 60947 (switchgear standard) and generally relate to the max. defined cross-sections and are intended for the purpose of orientation.
The engineering standards which apply in each case must be observed.

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

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**
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 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 NZM3-XKSA cover. Use with flexible and highly flexible conductors ferrules, note the max. terminal capacity when using ferrules.
10 × 24 × 1.0 + 5 × 24 × 1.0 or (2 ×) 8 × 24 × 1.0		**+NZM3-XKCU** 262245					
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 pole circuit-breakers. Standard connection with all NZM3, and N3 circuit-breakers. Conversion kit for circuit-breaker with box terminal. Use special cable lugs narrow version, → 73 Fitted within the switch housing When a busbar is used insulation is required (400 mm) e.g. using heat shrink and a shroud NZM3-XKSA. U_e ≧ 525 V AC: A shroud NZM3-XKSA must be used with all other connection types.
(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 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-XKV70: 70 mm Drilled hole available for control cable. Terminals NZM3-XK300 and NZM3-XK22X21 can be mounted.

For Immediate Delivery call KMParts.com at (866) 595-9616

			Max. cable connection	Rated current[1] I_n A	For use with		Terminal capacities Type of conductor	Terminal capacities mm²	AWG/kcmil
Terminals for connection width extension									
not UL/CSA approved									
				Max. 500	NZM3, N3	3-pole	Cu cable	1 × 120 – 300	
					NZM3, N3				
				Max. 630	NZM3, N3	3-pole			
Tunnel terminal									
	–			Max. 350	NZM3, N(S)3	Three pole	Copper cable ⏲ ⏳ Al cable ⏲ ⏳	1 × 16 – 185[2]	1 × 6 – 350
	–								–
	–			Max. 630				1 × 50 – 240 2 × 50 – 240	1 × 0 – 500 2 × 0 – 500
	–								
Connection on rear									
not UL/CSA approved									
	–			Max. 630	NZM3, N3	Three pole	Copper conductors Cu cable	1 × 16 – 240 2 × 16 – 240	
	–								
	–								
	–			Max. 500			Al conductors Al cable	1 × 10 – 120 2 × 10 – 120	
	–								
	–								
Control circuit terminal									
	–			–	NZM3, N(S)3	Three pole	Box terminal	1 × 0.75 – 2.5 2 × 0.75 – 1.5	1 × 18 – 14 2 × 18 – 16
	–			–	NZM3, N(S)3		Screw connection		

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.

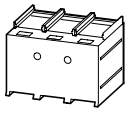
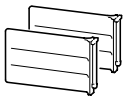
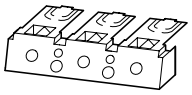
[2] Up to 240 mm² can be connected depending on the cable manufacturer.

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

Terminal capacities Cu strip (number of segments × width × segment thickness) mm	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**
				NZM3-XK300 100782		1 off	Type contains parts for a terminal located at top or bottom for 3 pole circuit-breakers. Only in conjunction with connection width extension NZM3-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.
22 × 21 × 1.0				**NZM3-XK22X21** 100784			
				NZM3-XKA1 271459		1 off	Type contains parts for a terminal located at top or bottom for 3 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-XKSA obligatory (supplied).
				NZM3-XKA2 271461			
		+NZM3-XKRO 266790		**NZM3-XKR** 266792		1 off	Type suffix and type contain parts for a circuit-breaker side at top or bottom for 3 pole circuit-breakers. O = for fitting at the top U = for fitting at the bottom
		+NZM3-XKRU 266791					
min.6 × 16 × 0.8 max. 10 × 32 × 1.0	Min. 20 × 5 Max. 30 – 10						
				NZM-XSTK 266739		1 off	Type contains parts for two terminal locations located at top or bottom for 3 pole circuit-breakers. Included as standard with tunnel terminal Degree of protection IP1X NZM-XSTK cannot be combined with NZM1-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-XSTS 266797		1 off	

For Immediate Delivery call KMParts.com at (866) 595-9616

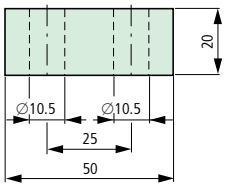
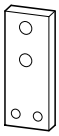
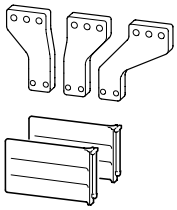
		Max. cable connection area	For use with		Terminal capacities Type of conductor	Terminal capacities mm²	AWG/kcmil	Terminal capacities Cu strip (number of segments × width × segment thickness) mm	Copper busbar width × thickness mm
Cover									
	– –		NZM3, N(S)3	3 pole					
Phase isolator									
	– –		NZM3, N(S)3	3 pole					
Connection cover, knockout									
	– –		NZM3, N(S)3	3 pole					
IP2X protection against contact with a finger									
For box terminals									
			NZM3, N3	3 pole					
For cover NZM3-XKSA or NZM3...(C)NA and N(S)3...NA									
			NZM3, N(S)3	3 pole					
Copper cable lug									
not UL/CSA approved When using cable lugs **without** NZM3-XKSA cover, they must be insulated.									
	185 mm² 240 mm²		NZM3, N3 NZM4, N4	Three pole					

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

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**
		NZM3-XKSA 260045		1 off	Type contains parts for a terminal located at top or bottom for 3 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.
		NZM3-XKP 100512		1 off	Type contains parts for a terminal located at top or bottom for 3 pole circuit-breakers. Included with the connection width extension. Cannot be combined with the NZM3-XKA tunnel terminal, NZM3-XKR connection on rear. Insulation protection where cable lugs, busbars or flat conductor.
		NZM3-XKSFA 104642		1 off	Type contains parts for a terminal located at top or bottom for 3 pole circuit-breakers. Enhancement of the protection against direct contact to (simplified protection against contact with a finger).
		NZM3-XIPK 266804		1 off	Type contains parts for a terminal located at top or bottom for 3 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 mm^2 00 or AW00. Cannot be combined with NZM-XSTK control circuit terminal.
		NZM3-XIPA 266808		1 off	Type contains parts for a terminal located at top or bottom for 3 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 mm^2 00 or AW00.
		NZM3-XKS240 260041		3 off	Type contains a cable lug for 3 pole switches. Special cable lug, narrow style
		NZM3-XKS185 260040		3 off	

For Immediate Delivery call KMParts.com at (866) 595-9616

		Max. cable connection area	Rated current [1]	For use with		Terminal capacities		
						Type of conductor	Terminal capacities	AWG/kcmil
			I_n					
Not UL/CSA approved			A				mm²	
Screw connection								
Standard equipment								
	Double hole		Max. 1250 Max.	NZM4 N4 N(S)4	Three pole	Cu cable lugs	1 × 120 – 185 4 × 50 – 185	1 × 250 – 350 4 × 0 – 350
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
	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
	Double hole		Max. 1250	NZM4, N(S)4	3 pole	Copper cable lugs	2 × 95 – 300	2 × 000 – 600
			Max. 1600	NZM4, N(S)4	3 pole	Copper cable lugs Copper cable lugs		
Connection width extension								
			Max. 1600	NZM4, N(S)4	3 pole	Cu cable lugs	4 × 300 6 × 95 – 240	4 × 600 6 × 000 – 500

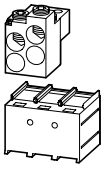
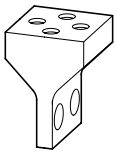
Notes [1] The following applies for the rated current: The values have been determined conform to IEC/EN 60947 (switchgear standard) and generally relate to the max. defined cross-sections and are intended for the purpose of orientation.
The engineering standards which apply in each case must be observed.

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

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**
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 ≧ 525 V or cross-section > 185 mm²: Use of shroud NZM4-XKSA required.
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 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-XKSA cover or NZM4-XKP phase separator necessary
		NZM4-XKM2 266820			
		NZM4-XKM2S-1250 284471			Type contains parts for a terminal located at top or bottom for 3 pole circuit-breakers. Insulation through cover NZM4-XKSA or phase isolator NZM4-XKP necessary.
		NZM4-XKM2S-1600 284473			
		NZM4-XKV95 281591		1 off	Type contains parts for a terminal located at top or bottom for 3 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-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-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-XKV110 281593			

For Immediate Delivery call KMParts.com at (866) 595-9616

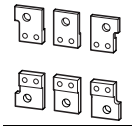
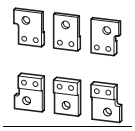
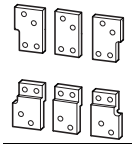
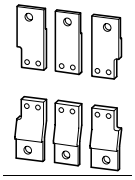
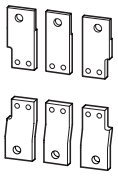
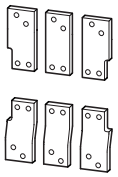
		Max. cable connection area	Rated current [1]	For use with		Terminal capacities		
						Type of conductor	Terminal capacities	AWG/kcmil
			I_n					
			A				mm²	
Tunnel terminal								
	–		Max. 1400	NZM4, N(S)4	3 pole	Copper cable Al cable	1 × 50 – 240 4 × 50 – 240 1 × 50 – 240 4 × 50 – 240	1 × 0 – 500 4 × 0 – 500
Connection on rear								
not UL/CSA approved								
	–		Max. 1250	NZM4, N4	Three pole	Copper cable lugs Aluminium cable lugs	1 × 120 – 185 2 × 95 – 185 4 × 35 – 185 1 × 185 2 × 70 – 185 4 × 50 – 185	

Notes [1] See page 80

For Immediate Delivery call KMParts.com at (866) 595-9616

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**
		NZM4-XKA		1 off	Type contains parts for a terminal located at top or bottom for 3 pole circuit-breakers. A standard with control circuit terminal for $1 \times 0.75 – 2.5\ mm^2$ (18 – 14 AWG) or $2 \times 0.75 – 1.5\ mm^2$ (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 -XKSA obligatory (supplied).
		NZM4-XKR 266842		1 off	Type contains parts for a terminal located at top or bottom for 3 pole circuit-breakers. Can also be retrofitted: NZM4...-XKM... module plate or NZM4-...-XKV... connection width extension

For Immediate Delivery call KMParts.com at (866) 595-9616

		Max. cable connection area	Rated current [1]	For use with		Terminal capacities		
						Type of conductor	Terminal capacities	AWG/kcmil
			I_n					
Not UL/CSA approved			A				mm²	
Adapter set N(ZM)4/N(ZM)12								
	–		Max. 1000	N4	3 pole			
	–		Max. 1250	N4	3 pole			
	–		Max. 1600	N4	3 pole			
	–		Max. 1000	NZM4	3 pole			
	–		Max. 1250	NZM4	3 pole			
	–		Max. 1600	NZM4	3 pole			

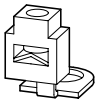
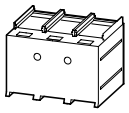
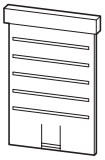
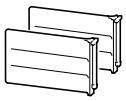
Notes [1] The following applies for the rated current: The values have been determined conform to IEC/EN 60947 (switchgear standard) and generally relate to the max. defined cross-sections and are intended for the purpose of orientation.
The engineering standards which apply in each case must be observed.

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

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**
		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.
		N4-XAS12-1250 285610		1 off	
		N4-XAS12-1600 285611		1 off	
		NZM4-XAS12-1000 285612		1 off	
		NZM4-XAS12-1250 285613		1 off	
		NZM4-XAS12-1600 285614		1 off	

For Immediate Delivery call KMParts.com at (866) 595-9616

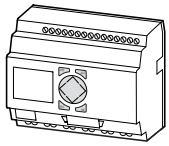
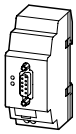
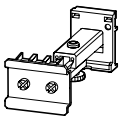
		Max. cable	For use with		Terminal capacities Type of conductor	Terminal capacities mm²	AWG/kcmil
Control circuit terminal							
	–		NZM3, N(S)3 NZM4, N(S)4	Three- and four-pole	Screw connection	1 × 0.75 – 2.5 2 × 0.75 – 1.5	1 × 18 – 14 2 × 18 – 16
Cover							
	–		NZM4, N(S)4	3 pole			
	–						
Terminal cover							
	–		NZM4, N4	3 pole			
	–						
Phase isolators							
	–		NZM4 N(S)4	3 pole			
Cable lug							
not UL/CSA approved							
	185 mm²		NZM3, N3 NZM4, N4	3 pole			
	240 mm²						

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

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**
		NZM3/4-XSTS 266797		1 off	Type contains parts for two terminal locations located at top or bottom for 3 pole circuit-breakers. Included as standard with tunnel terminal Degree of protection IP1X NZM-XSTK cannot be combined with NZM3-XIPK or NZM4-XIPK IP2X protection against contact with a finger. Height or thickness of the control circuit terminals: NZM-XSTK = 2 mm NZM-XSTS = 2 mm
		NZM4-XKSA 266846		1 off	Type contains parts for a terminal located at top or bottom for 3 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-XKSFA 292193		1 off	Type contains parts for a terminal located at top or bottom for 3 pole circuit-breakers. Enhancement of the protection against direct contact to (simplified protection against contact with a finger).
		NZM4-XKP 281595		1 off	Type contains parts for a terminal located at top or bottom for 3 pole circuit-breakers. Included with the connection width extension. Cannot be combined with the tunnel terminal NZM4-XKA, connection NZM4-XKR on rear. Insulation protection where cable lugs, busbars, module plates or flat cable terminals are used.
		NZM3-XKS185 260040		3 off	Type contains a cable lug for 3 pole switches. Special cable lug, narrow style
		NZM3-XKS240 260041		3 off	

For Immediate Delivery call KMParts.com at (866) 595-9616

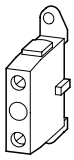
	Description	Part no. Article no.	Price	Std. pack	Notes
Diagnostic and configurator software for NZM and DMI (at the machine)					
	PC software for direct connection to all new NZM circuit-breakers with electronic releases (IEC and UL/CSA devices) or for direct connection to the DMI module, including 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**			**electronic**
Expansion unit, networking					
	Fieldbus interface: to PROFIBUS-DPV1 slave. Can be operated with class 1 and class 2 masters. Addresses available: 1 to 126	**NZM-XDMI-DPV1**			EASY204-DP.
	Fieldbus connection to CANopen Addresses available: 1 to 127	**EASY221-CO**			
	Fieldbus connection to DeviceNet Addresses available: 0 to 63	233540		1 off	
Switched-mode power supply unit					
	• 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**			–
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.	226161		1 off	–

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

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.

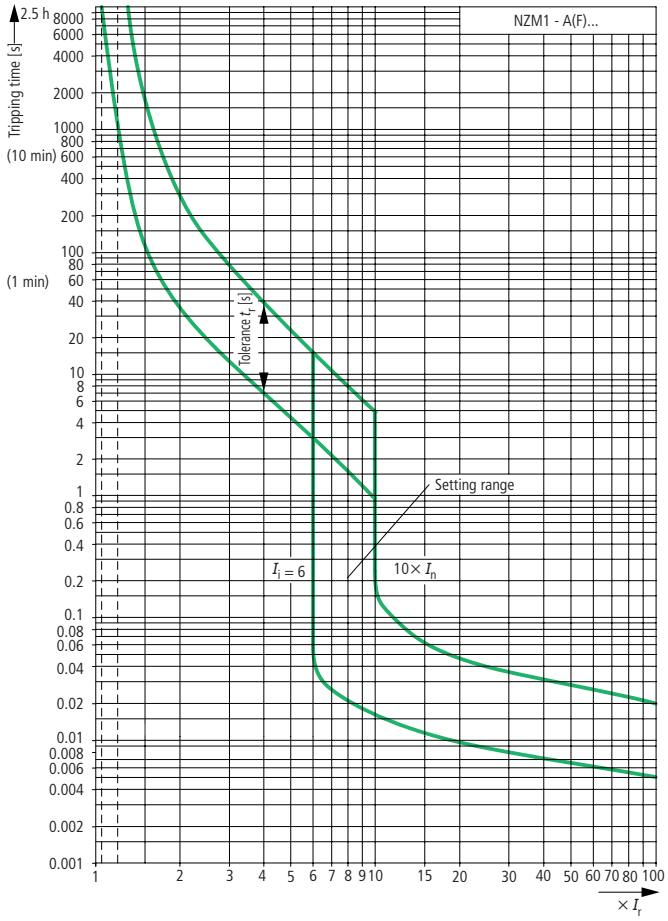
For Immediate Delivery call KMParts.com at (866) 595-9616

	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		

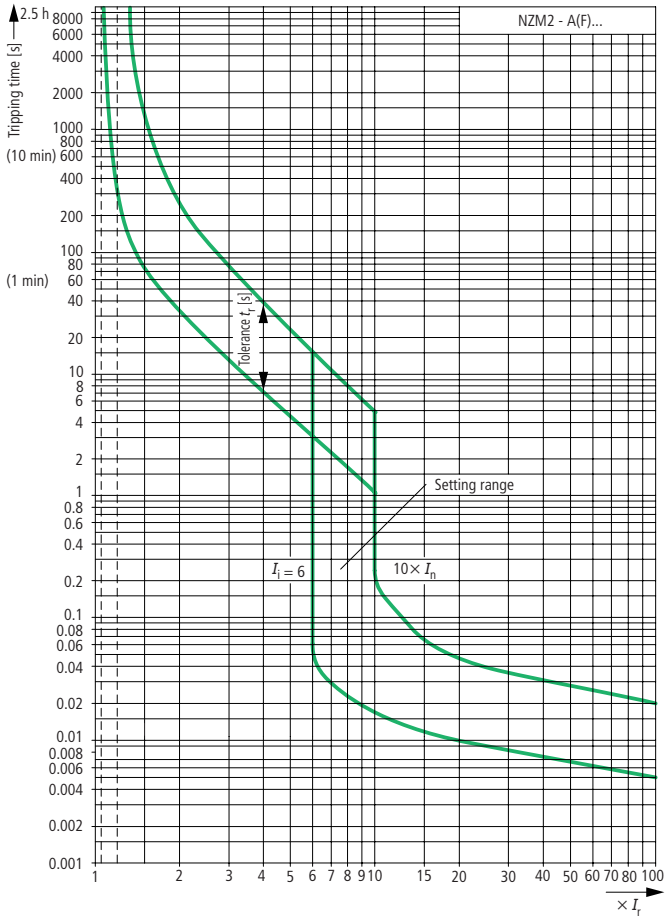
For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

System and line protection with NZM1

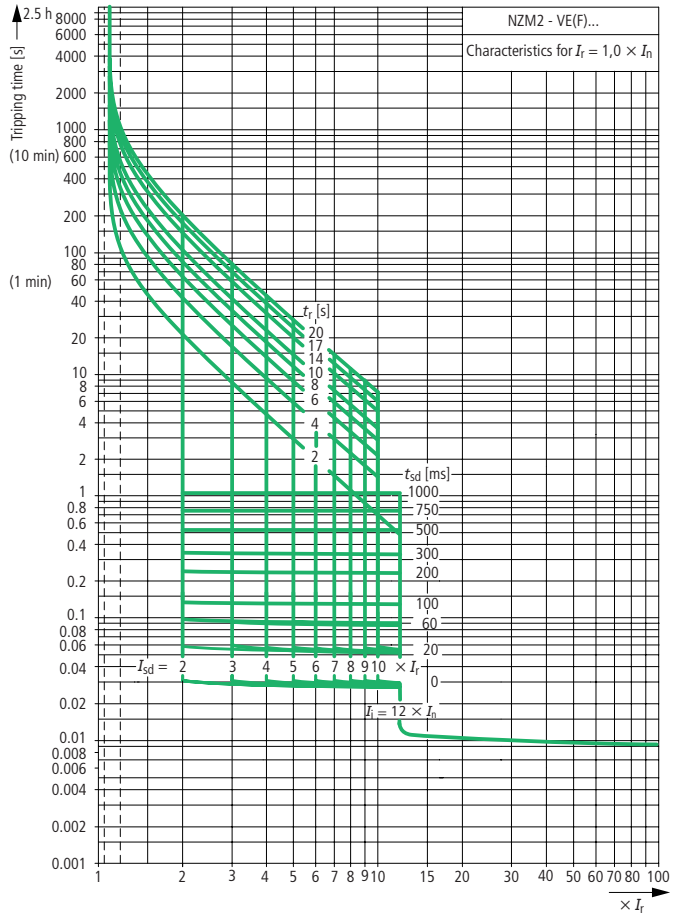


System and line protection with NZM2

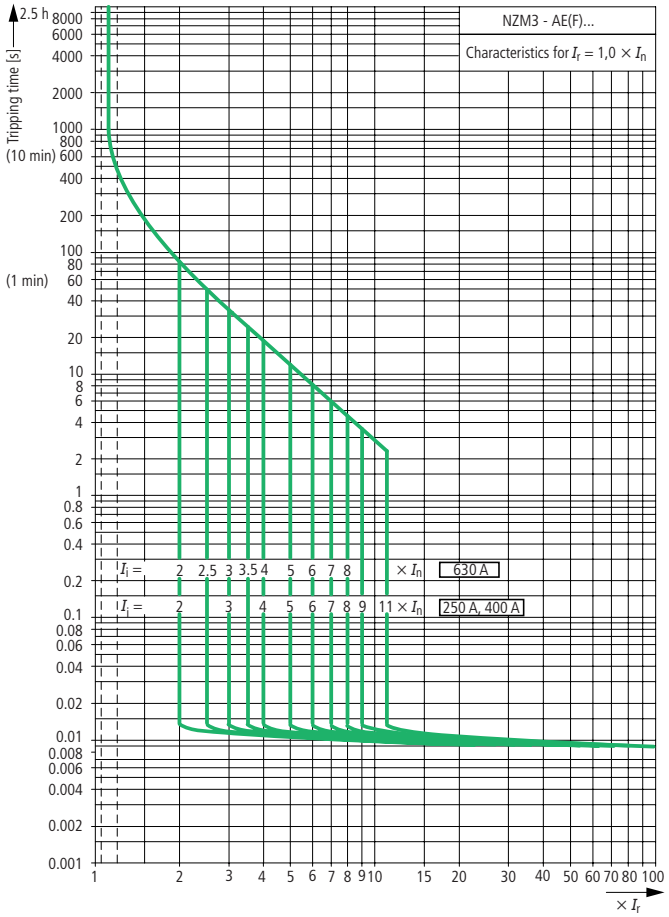


For Immediate Delivery call KMParts.com at (866) 595-9616

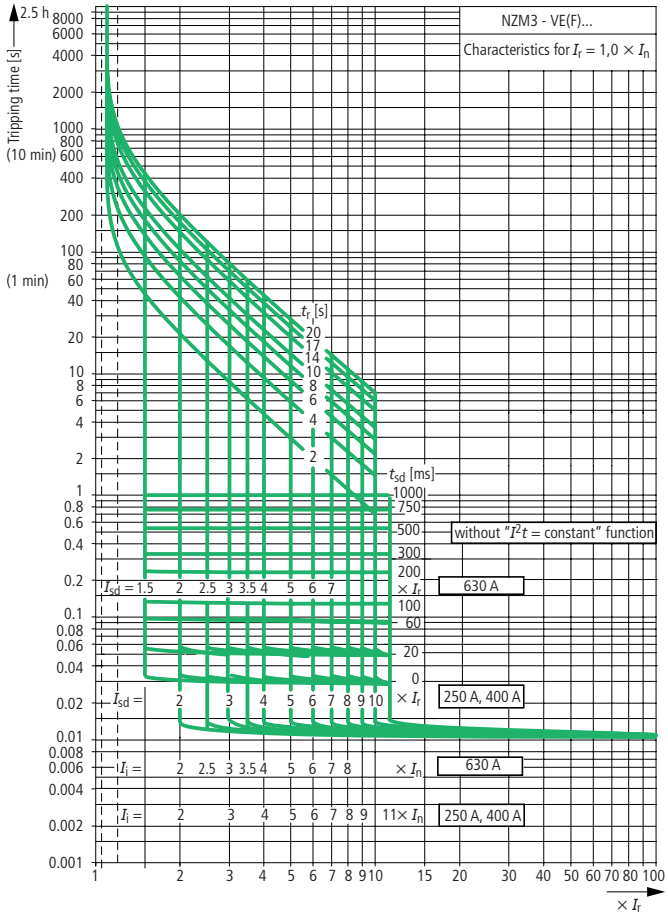
Systems, cable, selectivity and generator protection with NZM2



System and line protection with NZM3



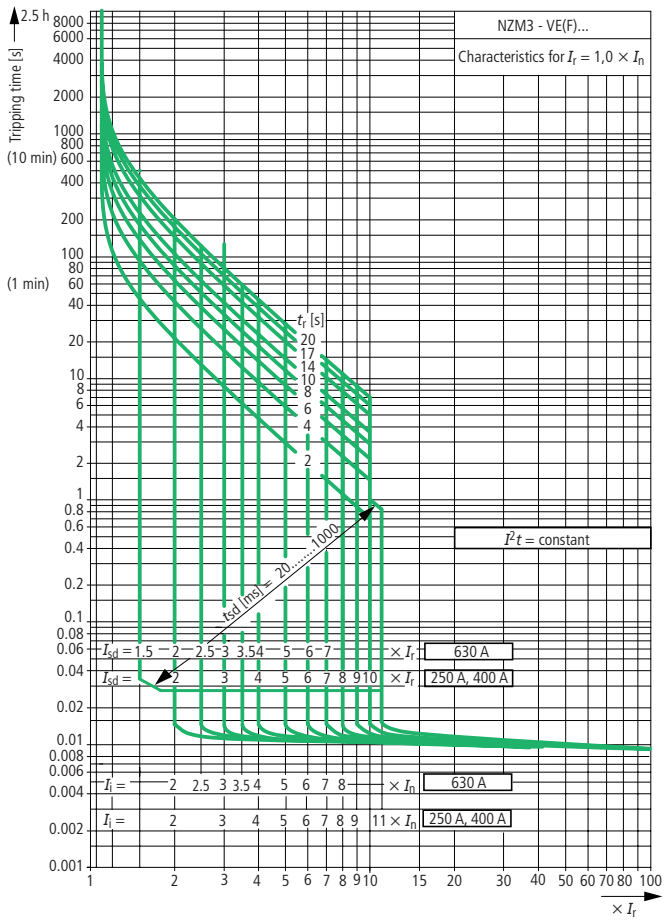
Systems, cable, selectivity and generator protection with NZM3



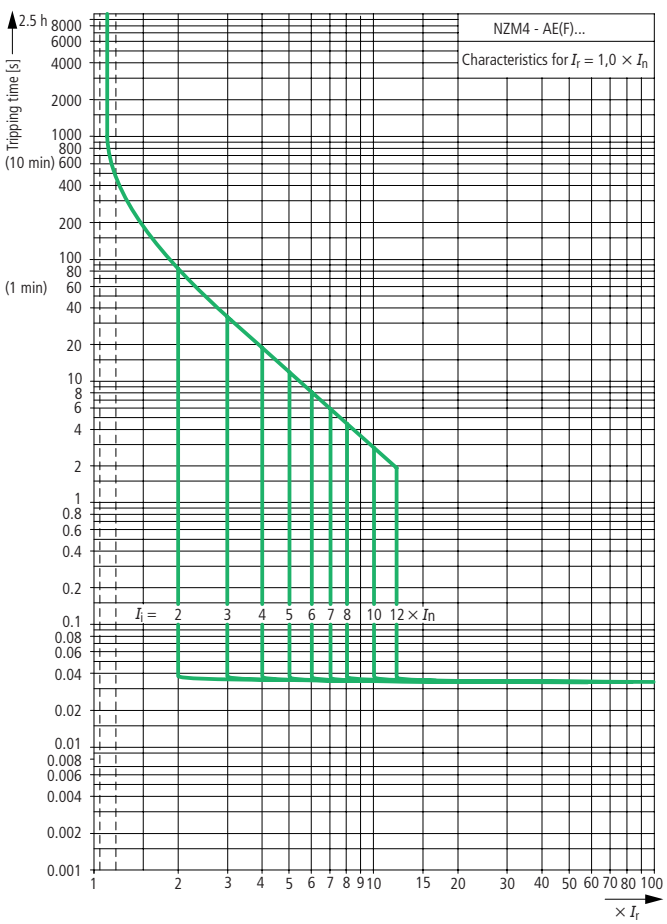
For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

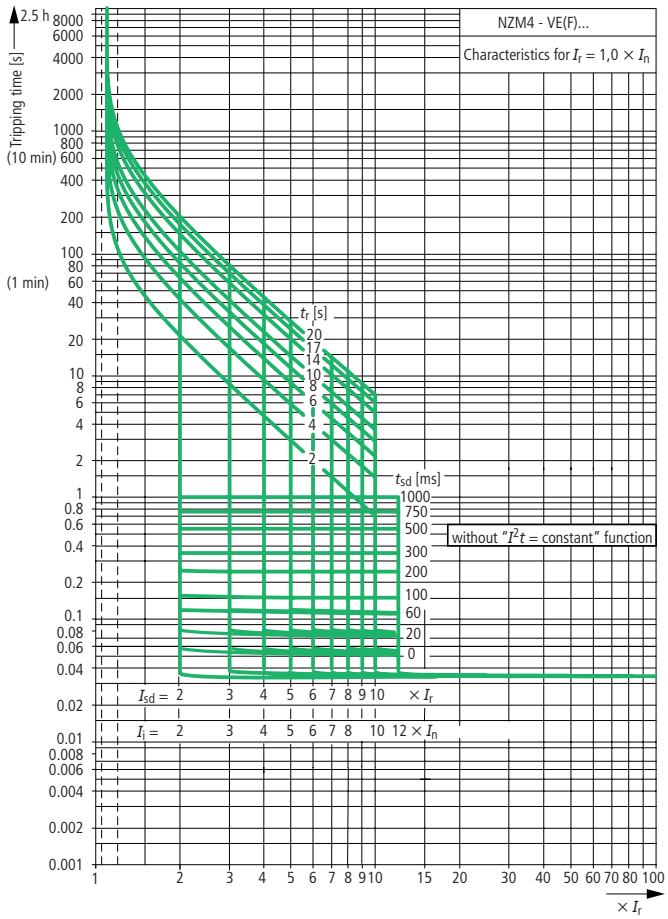
Systems, cable, selectivity and generator protection with NZM3



System and line protection with NZM4

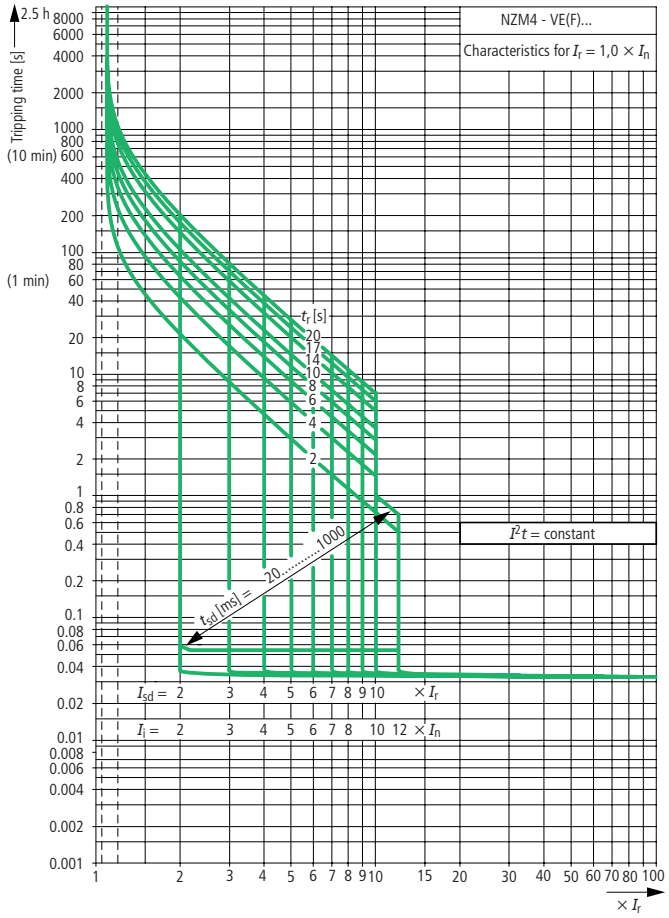


Systems, cable, selectivity and generator protection with NZM4



For Immediate Delivery call KMParts.com at (866) 595-9616

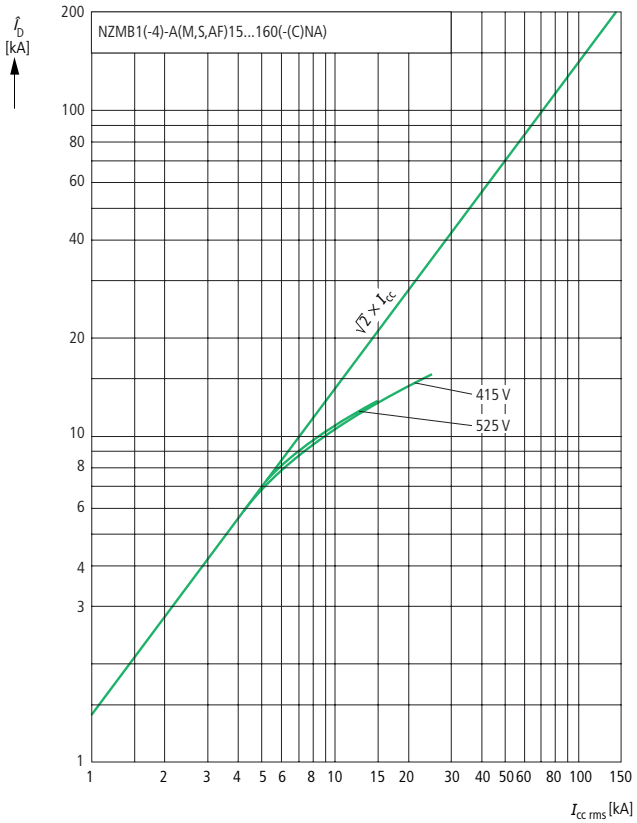
Systems, cable, selectivity and generator protection with NZM4

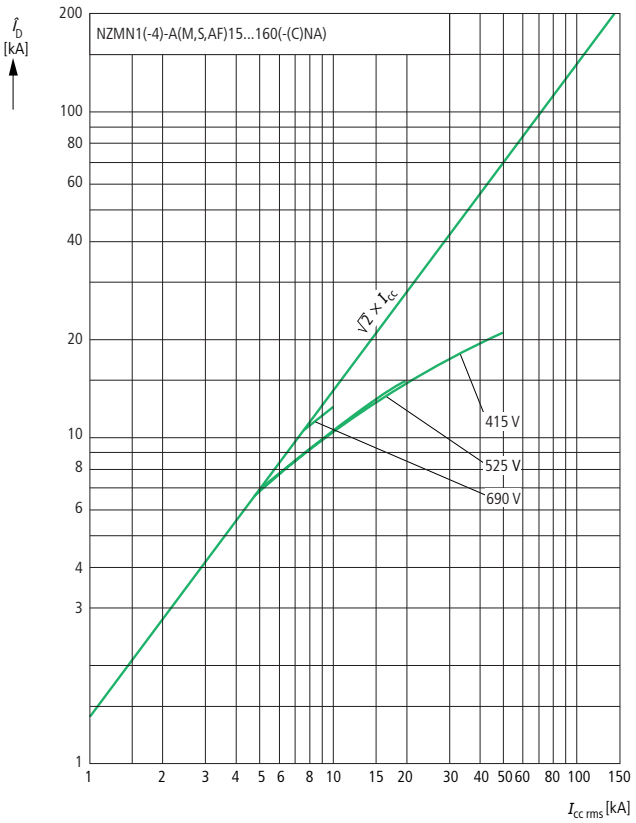


For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

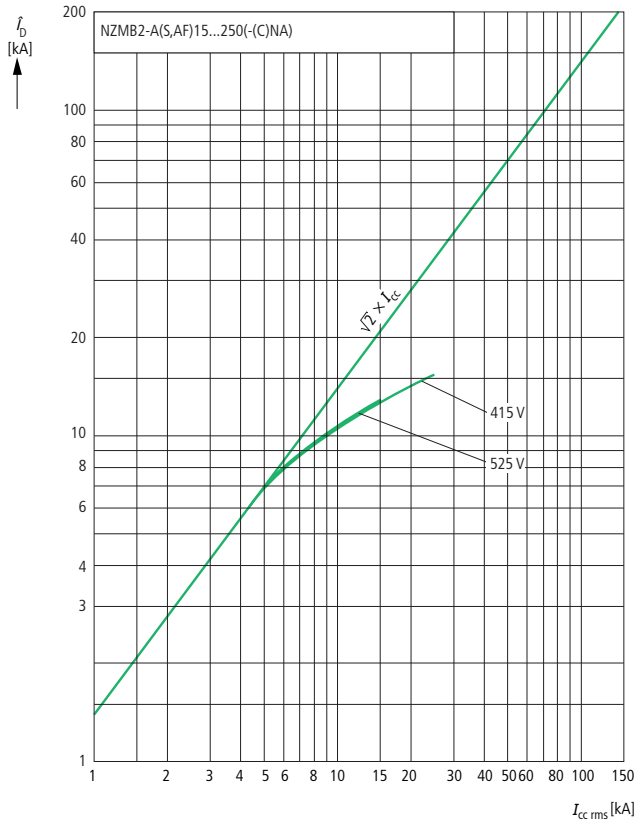
Let-through current $\hat{\imath}_D$

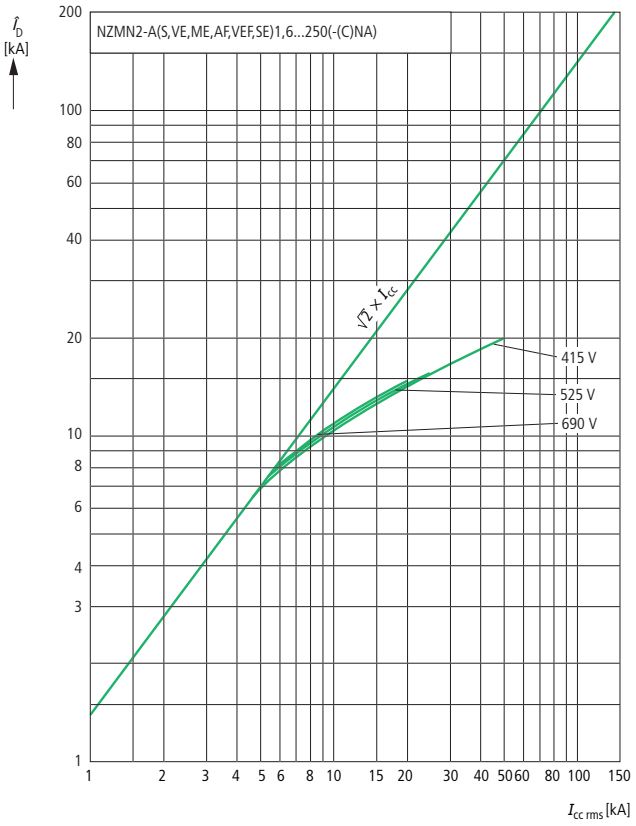


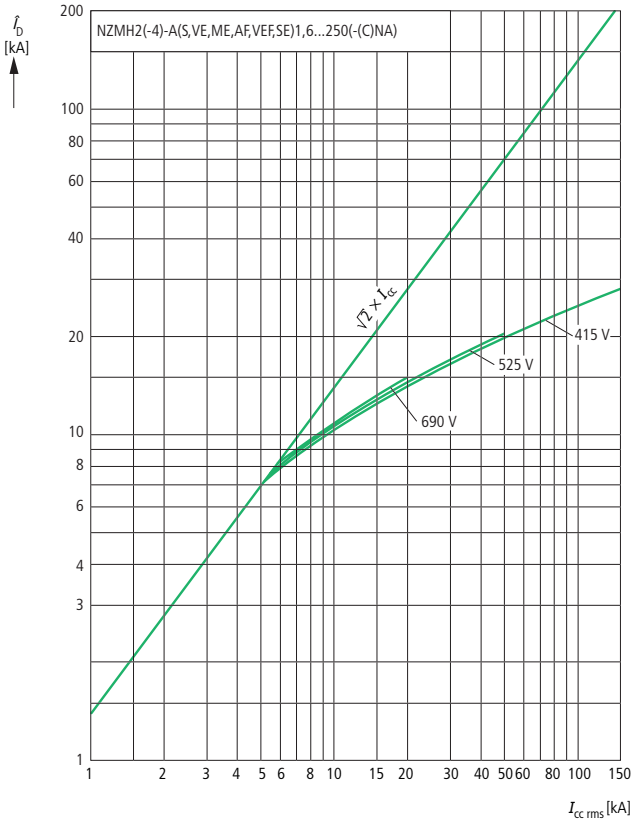


For Immediate Delivery call KMParts.com at (866) 595-9616

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



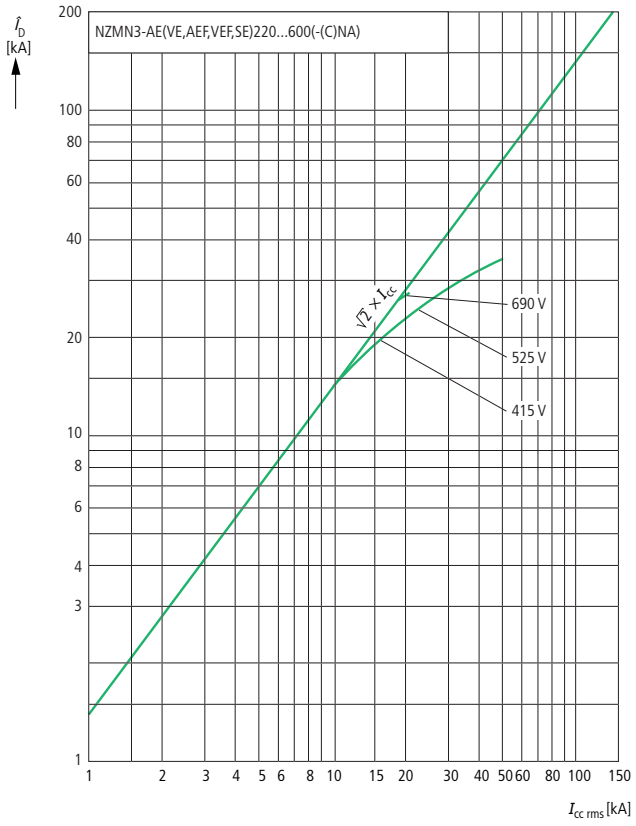


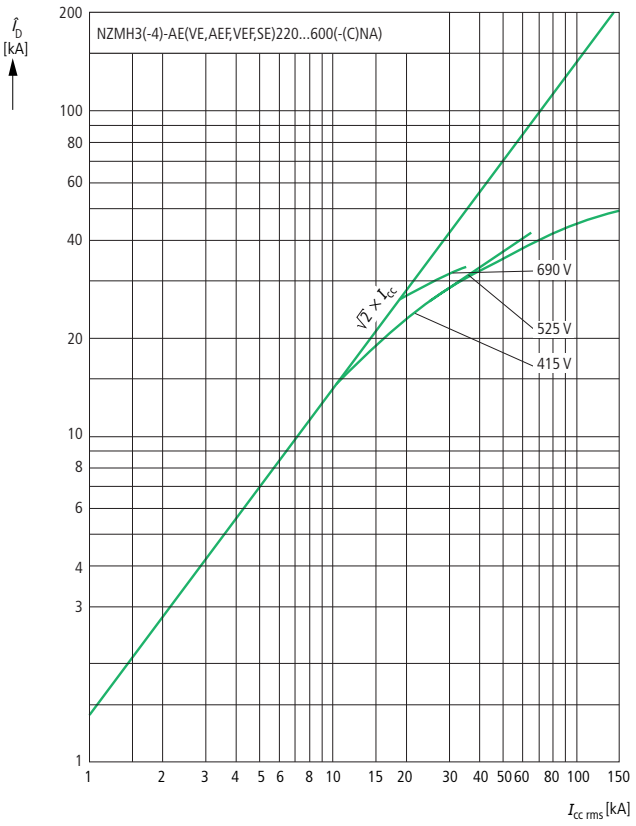


For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

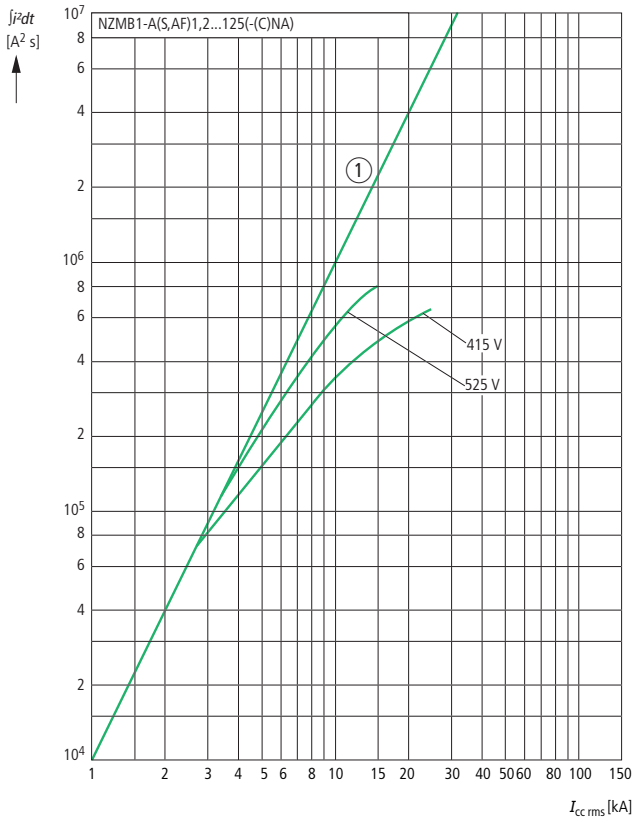
Let-through current $\hat{\imath}_D$

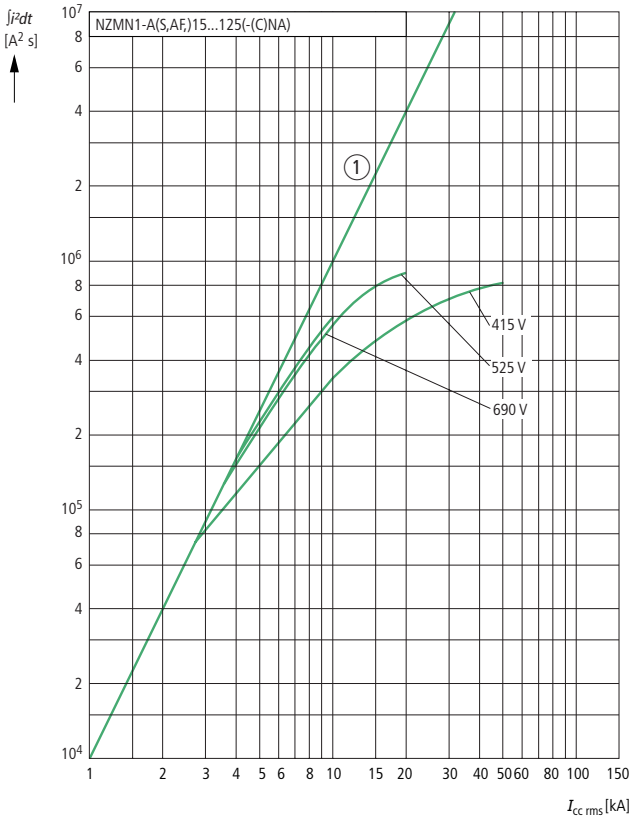




For Immediate Delivery call KMParts.com at (866) 595-9616

Let-through energy I^2t

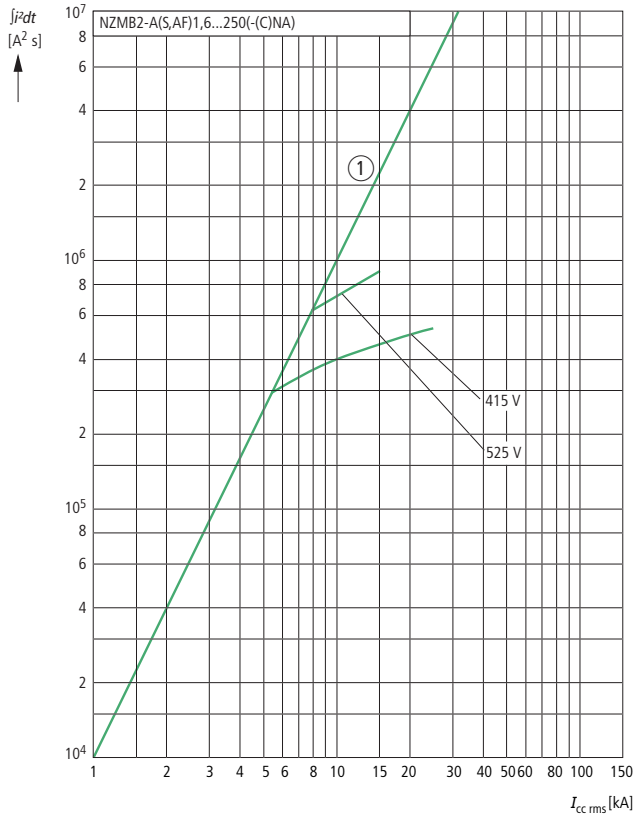


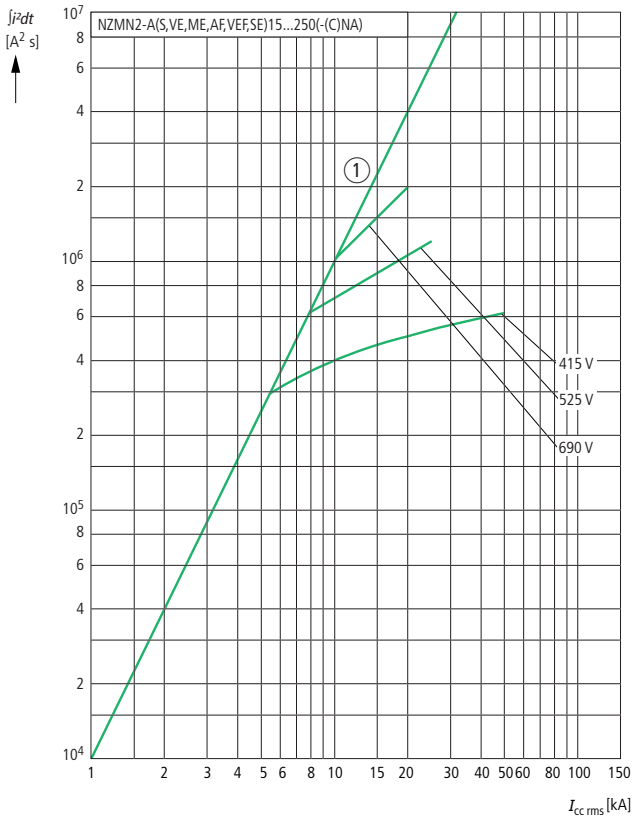


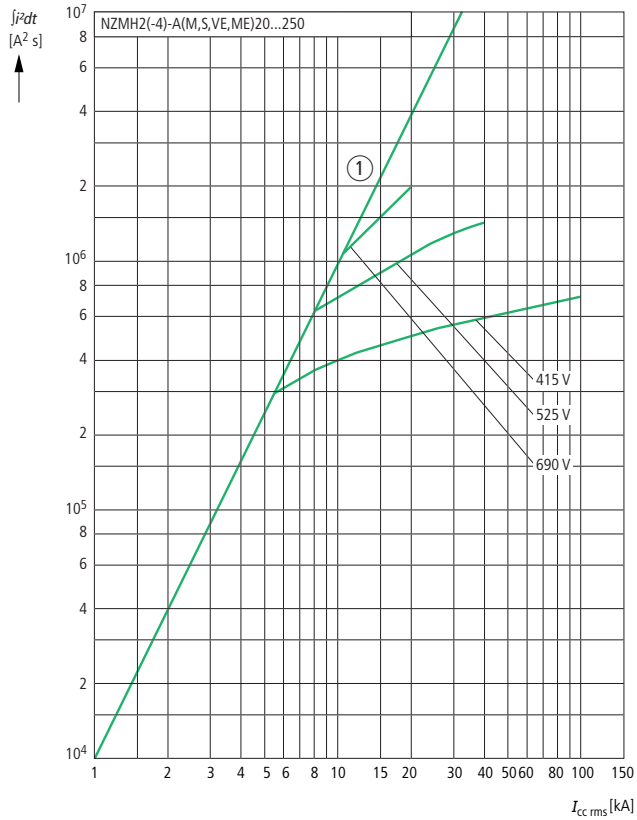
For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

Let-through energy I^2t



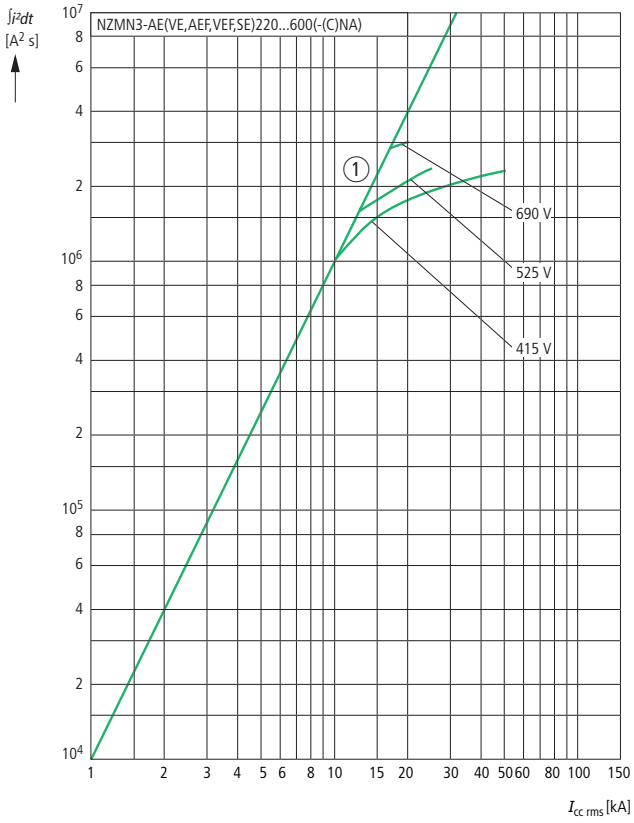


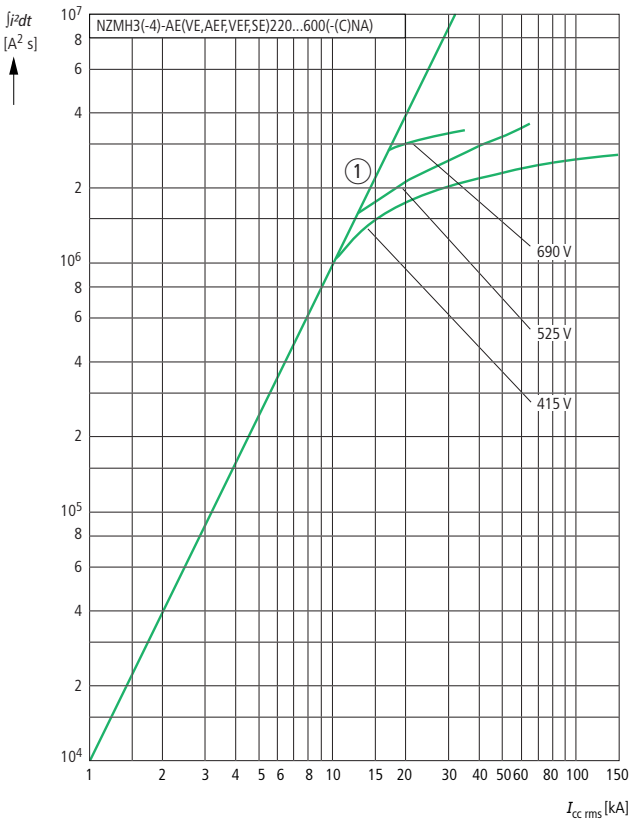


① 1st half-wave

For Immediate Delivery call KMParts.com at (866) 595-9616

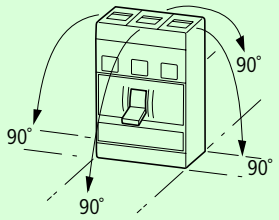
Let-through energy I^2t



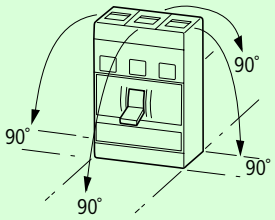


For Immediate Delivery call KMParts.com at (866) 595-9616

For Immediate Delivery call KMParts.com at (866) 595-9616

			Rated uninterrupted current: 125 A NZMB1 NZMN1
General			
Standards			IEC/EN 60947: UL 489, CSA 22.2 No. 5.1
Protection against direct contact			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
Ambient temperature			
Storage		°C	-25/+70
Operation		°C	-25/+70
Mechanical shock resistance (IEC/EN 60068-2-27)			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
between the auxiliary contacts		V AC	300
Mounting position			Vertical and 90° in all directions 
Direction of incoming supply			As required
Degree of protection			
Device			In the operating controls area: IP20 (basic degree of protection)
Enclosures			With insulating surround: IP40, with door coupling rotary handle: IP66
Terminals			Tunnel terminal: IP10 Phase isolator and strip terminal: IP00

For Immediate Delivery call KMParts.com at (866) 595-9616

Rated uninterrupted current: 250 A NZMB2 NZMN2 NZMH2	Rated uninterrupted current: 600 A NZMN3 NZMH3	Rated uninterrupted current: 1200 A NZMN4 NZMH4
IEC/EN 60947: UL 489, CSA 22.2 No. 5.1		
Finger and back of hand proof to VDE 0106 Part 100		
Damp heat, constant, according to IEC 60068-2-78 Damp heat, cyclical to IEC 60068-2-30		
-25/+70		
-25/+70		
20 (half-sinusoidal shock 20 ms)		
500		
300		
	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	
As required		
In the operating controls area: IP20 (basic degree of protection)		
With insulating surround: IP40, with door coupling rotary handle: IP66		
Tunnel terminal: IP10 Phase isolator and strip terminal: IP00		

For Immediate Delivery call KMParts.com at (866) 595-9616

					Rated uninterrupted current: 160 A NZMB1		NZMN1
Circuit-breakers							
Rated impulse withstand voltage U_{imp}							
Main contacts			V		6000		6000
Auxiliary contacts			V		6000		6000
Rated operational voltage		U_e	V AC		690		690
Overvoltage category/pollution degree					III/3		III/3
Rated insulation voltage		U_i	V		690		690
For use in IT electrical power networks			V		525		690
Switching capacity							
Rated short-circuit making capacity							
	240 V 50/60 Hz	I_{cm}	kA		63		187
	400/415 V 50/60 Hz	I_{cm}	kA		53		105
	440 V 50/60 Hz	I_{cm}	kA		53		74
	525 V 50/60 Hz	I_{cm}	kA		30		40
	690 V 50/60 Hz	I_{cm}	kA		–		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
	400/415 V 50/60 Hz	I_{cu}	kA		25		50
	440 V 50/60 Hz	I_{cu}	kA		25		35
	525 V 50/60 Hz	I_{cu}	kA		15		20
	690 V 50/60 Hz	I_{cu}	kA		–		10
I_{cu} to IEC/EN 60947 operating sequence O-t-CO-t-CO	240 V 50/60 Hz	I_{cs}	kA		30		85
	400/415 V 50/60 Hz	I_{cs}	kA		25		50
	440 V 50/60 Hz	I_{cs}	kA		25		35
	525 V 50/60 Hz	I_{cs}	kA		7.5		10
	690 V 50/60 Hz	I_{cs}	kA		–		7.5
Utilization category to IEC/EN 60947-2					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
	690 V 50/60 Hz	I_e	A		160		160
AC-3	400/415 V 50/60 Hz	I_e	A		160		160
	690 V 50/60 Hz	I_e	A		160		160
Lifespan, mechanical (of which max. 50 % trip by shunt/undervoltage release)		Operations			20000		20000
Maximum operating frequency			Ops/h		120		120
Lifespan, electrical to IEC/EN 60947-4-1 section B							
AC-1	400/415 V 50/60 Hz	Operations			10000		10000
	690 V 50/60 Hz	Operations			7500		7500
AC-3	400/415 V 50/60 Hz	Operations			7500		7500
	690 V 50/60 Hz	Operations			5000		5000
Current heat loss per pole at I_u			W		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		0.7
Electronic					–		–
Total opening delay at short-circuit			ms		< 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		–		–

Notes

[1)] For switching capacity of NA switches with NZM...1-...NA the following applies: 480Y/277 V from 60 A
[2)] For rated operational current AC-3 at NZM4 the following applies: 400 V: max. 650 kW; 600 V: max. 600 kW
[3)] For switching capacity of NA switches with NZMH2 and NZMH3 the following applies: current limiting switch to UL489
[4)] For switching capacity of NA switches with NZMH4 at 240 V 60 Hz the following applies: please enquire

For Immediate Delivery call KMParts.com at (866) 595-9616

Rated uninterrupted current: 250 A				Rated uninterrupted current: 600 A		Rated uninterrupted current: 1200 A	
NZMB2		NZMN2	NZMH2	NZMN3	NZMH3	NZMN4	NZMH4
8000		8000	8000	8000	8000	8000	8000
6000		6000	6000	6000	6000	6000	6000
690		690	690	690	690	690	690
III/3		III/3	III/3	III/3	III/3	III/3	III/3
1000		1000	1000	1000	1000	1000	1000
525		690	690	690	690	525	525
63		187	330	187	330	105	275
53		105	330	105	330	105	220
53		74	286	74	286	74	187
30		53	105	53	143	53	143
–		40	40	40	74	40	105
30		85	150	85	150	50	125
25		50	150	50	150	50	100
25		35	130	35	130	35	85
15		25	50	25	65	25	65
–		20	20	20	35	20	50
30		85	150	85	150	37	63
25		50	150	50	150	37	50
25		35	130	35	130	26	43
15		25	38	13	33	19	49
–		5	5	5	9	15	37
A		A	A	A	A	B	B
–		1.9	1.9	3.3	3.3	19.2	–
–		1.9	1.9	3.3	3.3	19.2	–
250		250	250	600	600	1200	1200
250		250	250	600	600	1200	1200
250		250	250	600	600	1200[3)]	1200[3)]
250		250	250	600	600	1200[3)]	1200[3)]
20000		20000	20000	15000	15000	10000	10000
120		120	120	60	60	60	60
10000		10000	10000	5000	5000	3000	3000
7500		7500	7500	3000	3000	2000	2000
6500		6500	6500	2000	2000	2000	2000
5000		5000	5000	2000	2000	1000	1000
19		19	19	40	40	97	97
0		0	0	–	–	–	–
0		0	0	0	0	0	0
< 10		< 10	< 10	< 10	< 10	< 25 ≦ 415 V; < 35 > 415 V	< 25 ≦ 415 V; < 35 > 415 V
35		85	150[4)]	85	150[4)]	85	125[6)]
25		35	100[4)]	42	100[4)]	42	85
18		25	50[4)]	35	50[4)]	35	50

For Immediate Delivery call KMParts.com at (866) 595-9616

Current limiting specifications: NZMH2... and NZMH3...

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]
NZMH2-	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
NZMH2-	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
NZMH3	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

For Immediate Delivery call KMParts.com at (866) 595-9616

					N3 550 A max.	N4 1200 A max.
Disconnect switches						
Rated impulse withstand voltage U_{imp}						
Main contacts				V	8000	8000
Auxiliary contacts				V	6000	6000
Rated operational voltage			U_e	V AC	690	690
Rated uninterrupted current max.						
IEC/EN 61131-3			I_u	A	630	1600
Technical data, divergent from the products for the IEC market UL489, CSA 22.2 No. 5.1			I_u	A	550	1200
Overvoltage category/pollution degree					III/3	III/3
Rated insulation voltage			U_e	V AC	1000	1000
Switching capacity						
Rated short-circuit making capacity			I_{cm}	kA	25	53
Rated short-time withstand current						
	t = 0.3 s		I_{cw}	kA	12	25
	t = 1 s		I_{cw}	kA	12	25
Rated conditional short-circuit current						
with back-up fuse				A gG/gL	550	2 x 600
	400/415 V			kA	100	100
	690 V			kA	80	80
With downstream fuse				A gG/gL	630	2 x 600
	400/415 V			kA	100	100
	690 V			kA	100	80
Rated making and breaking capacity						
Rated operational current, AC-22/23A						
	415 V		I_e	A	550	1200
	690 V		I_e	A	550	1200
Lifespan, mechanical			Operations		15000	10000
Maximum operating frequency				Ops/h	60	60
Lifespan, electrical to IEC/EN 60947-4-1 section B						
AC-1	400/415 V		Operations		5000	3000
	690 V		Operations		3000	2000
AC-3	400/415 V		Operations		3000	2000
	690 V		Operations		2000	1000
Current heat loss per pole at I_u [1]				W	40	97

Notes

[1] The current heat loss per pole ratings refer to the maximum current rating of the frame size.
[3] 690 V: max. 160 kW

			NZM1, NS1 125 A	NZM2, NS2 250 A			NZM3, N3, NS3 600 A		NZM4, N4, NS4 1200 A	
				without	with XSV		without	with XAV	without	with XAV
					TM	E				
Permissible loading at different ambient temperatures (derating)										
open	20°C	%	100	100	100	100	100	96	100	100
	30°C	%	100	100	97	100	100	92	100	98
	40°C	%	100	100	92	100	100	87	100	93
	50°C	%	100	100	87	94	100	83	100	89
	60°C	%	86	90	81	88	90	78	87	85
	65°C	%	83	85	78	84	85	75	85	83
	70°C	%	79	80	75	81	80	73	82	80

Notes

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

For Immediate Delivery call KMParts.com at (866) 595-9616

				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

For Immediate Delivery call KMParts.com at (866) 595-9616

For Immediate Delivery call KMParts.com at (866) 595-9616

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

	Fixed mounted							
	NZM1-						NS1-	
	A...-NA		AF...-NA		S...-CNA		...-NA	
I_n [A]	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	9.8	8180	–	–	–	–
25	8.8	4680	8.8	4680	–	–	–	–
26	–	–	–	–	2	1050	–	–
30	–	–	8.2	3030	–	–	–	–
32	9.1	3030	–	–	–	–	–	–
33	–	–	–	–	3.2	1050	–	–
35	–	–	8.2	2220	–	–	–	–
40	11	2220	11	2220	2.7	562	–	–
45	–	–	10.7	1760	–	–	–	–
50	13.5	1760	13.5	1760	4.2	562	–	–
60	–	–	12.9	1190	–	–	–	–
63	14	1190	–	–	6.7	562	6.7	562
70	–	–	12.5	850	–	–	–	–
80	15.5	850	15.5	850	10.8	562	–	–
90	–	–	17.7	730	–	–	–	–
100	24	730	24	730	16.9	562	16.9	562
110	–	–	20.7	570	–	–	–	–
125	38	570	38	570	–	–	26.3	562
150	–	–	–	–	–	–	–	–
160	50	460	–	–	–	–	–	–
175	–	–	–	–	–	–	–	–
200	–	–	–	–	–	–	–	–
225	–	–	–	–	–	–	–	–
250	–	–	–	–	–	–	–	–

Note: The values stated in the table apply for fixed mounted 3 pole devices which are loaded uniformly.
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 switch.
The heat dissipation can be calculated using the fromula: $P = 3 \times R \times I^2$

NZM up to 1200 A with electronic release (3 pole)

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

Note: The values stated in the table apply for 3 pole devices which are loaded uniformly.
The total resistive load is the measured value for a 3 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: $P = 3 \times R \times I^2$

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

Fixed mounted

NZM2-A...-NA		AF...-NA		S...-CNA		NS2-...-NA	
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	–	–	–	–
8	4250	6	3140	–	–	–	–
–	–	–	–	0.5	780	–	–
–	–	9	3140	–	–	–	–
10	3140	–	–	–	–	–	–
–	–	–	–	0.9	780	–	–
–	–	11	2800	–	–	–	–
13	2800	13	2800	1.5	317	–	–
–	–	15	2270	–	–	–	–
18	2270	18	2270	2.5	317	–	–
–	–	19	1700	–	–	–	–
20	1700	–	–	4	317	–	–
–	–	17	1070	–	–	–	–
22	1070	22	1070	6	317	–	–
–	–	23	855	–	–	–	–
28	855	28	855	10	317	–	–
–	–	22	589	–	–	–	–
29	589	29	589	15	317	–	–
–	–	35	427	–	–	–	–
40	427	–	–	25	317	25	317
–	–	37	332	–	–	–	–
48	332	48	332	40	317	40	317
–	–	46	310	–	–	–	–
57	310	57	310	59.4	317	59.4	317

For Immediate Delivery call KMParts.com at (866) 595-9616

					NZM1, NS1 125 A	I_n[1] A	NZM2, NS2 250 A	I_n[1] A	NZM3, N3, NS3 600 A	I_n[1] A
Terminal capacities										
Standard equipment					Box 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	
Cu conductors, Cu cable										
Box terminal	Solid			mm²	1 × (10 – 16) 2 × (6 – 16)	125	1 × (4 – 16) 2 × (4 – 16)	250	2 × 16	500
	Stranded			mm²	1 × (25 – 70)[3] 2 × 25		1 × (25 – 185) 2 × (25 – 70)	250	1 × (35 – 240) 2 × (25 – 120)	
Tunnel terminal	Solid Stranded			mm²	1 × 16	125	1 × (16 – 185)	250	–	–
		Single hole		mm²	1 × (25 – 95)		1 × (25 – 185)		1 × (25 – 185)	350
		Double hole fitting		mm²	–	–	–	–	1 × (50 – 240) 2 × (50 – 240)	600
		4-hole		mm²	–	–	–	–	–	–
Bolt terminal and rear-side connection										
Direct on the switch	Solid			mm²	1 × (10 – 16) 2 × (6 – 16)	125	1 × (4 – 16) 2 × (4 – 16)	250	1 × 16 2 × 16	600
	Stranded			mm²	1 × (25 – 70)[3] 2 × 25		1 × (25 – 185) 2 × (25 – 70)		1 × (25 – 240) 2 × (25 – 240)	
Module plate	Single hole		min.	mm²	–	–	–	–	–	–
			max.	mm²	–	–	–	–	–	–
Module plate	Double hole		min.	mm²	–	–	–	–	–	–
			max.	mm²	–	–	–	–	–	–
Connection width extension				mm²					2 × 300	600
Al conductors, Al cable										
Tunnel terminal	Solid Stranded			mm²	1 × 16	125	1 × 16	250	1 × 16	350
		Single hole		mm²	1 × (25 – 95)		1 × (25 – 185)		1 × (25 – 185)[2]	
		Double hole fitting		mm²	–	–	–	–	1 × (50 – 240) 2 × (50 – 240)	600
		4-hole		mm²	–	–	–	–	–	–
Bolt terminal and rear-side connection										
Direct on the switch	Solid			mm²	1 × (10 – 16) 2 × (10 – 16)	125	1 × (10 – 16) 2 × (10 – 16)	250	1 × 16 2 × (10 – 16)	400
	Stranded			mm²	1 × (25 – 35) 2 × (25 – 35)		1 × (25 – 50) 2 × (25 – 50)		1 × (25 – 120) 2 × (25 – 120)	
Module plate	Single hole		min.	mm²	–	–	–	–	–	–
	Single hole		max.	mm²	–	–	–	–	–	–
Module plate	Double hole			mm²	–	–	–	–	–	–
Connection width extension				mm²						
Cu strip (number of segments × width × segment thickness)										
Box terminal			min.	mm²	2 × 9 × 0.8	125	2 × 9 × 0.8	250	6 × 16 × 0.8	600
			max.	mm²	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	–	–	–	–	–	–
			max.	mm	–	–	–	–	–	–
Module plate	Single hole			mm²	–	–	–	–	–	–
Bolt terminal and rear-side connection										
Flat copper strip, with holes			min.	mm	–	–	2 × 16 × 0.8	250	6 × 16 × 0.8	600
Flat copper strip, with holes			max.	mm	–	–	10 × 16 × 0.8		10 × 32 × 1.0 + 5 × 32 × 1.0	
Connection width extension				mm²	–	–	–	–	(2 ×) 10 × 50 × 1.0	
Copper busbar (width × thickness)										
Bolt terminal and rear-side connection										
Screw connection					M6	–	M8	–	M10	–
Direct on the switch			min.	mm²	12 × 5	125	16 × 5	250	20 × 5	600
			max.	mm²	16 × 5	–	20 × 5	–	30 × 10 +30 × 5	
Module plate	Single hole		min.	mm²	–	–	–	–	–	–
			max.	mm²	–	–	–	–	–	–
Module plate	Double hole			mm²	–	–	–	–	–	–
Connection width extension			min.	mm²	–	–	–	–	–	600
			max.	mm²	–	–	–	–	2 × (10 × 50)	

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.

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

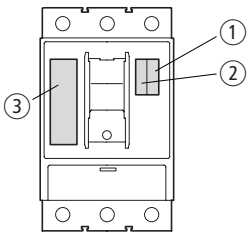
NZM4, N4, NS4 1200 A	I_n[1] A		NZM...1...NA, NS1...NA	NZM...2...NA, NS2...NA	NZM...3...NA, N3...NA, NS3...NA	NZM...4...NA, N4...NA, NS4...NA
Screw terminal	–	–	Box terminal	Screw terminal	Screw terminal	Screw terminal
Tunnel terminal Connection on rear Strip terminal		–	Screw connection Tunnel terminal Connection on rear	Box terminal Tunnel terminal Connection on rear	Box terminal Tunnel terminal Connection on rear	Tunnel terminal Connection on rear Strip terminal
–	–	AWG	1 × (12 – 6)	1 × (12 – 6)	–	–
–	–	AWG/kcmil	1 × (4 – 2/0)	1 × (4 – 350)	1 × (2 – 500)	–
–	–	AWG	1 × 6	1 × 6	1 × 6	–
–	–	AWG/kcmil	1 × (4 – 3/0)	1 × (4 – 350)	1 × (4 – 350)	–
–	–	AWG/kcmil	–	–	1 × (0 – 500) 2 × (0 – 500)	–
4 × (50 – 240)	1200	AWG/kcmil	–	–	–	4 × (0 – 500)
–	–	AWG	1 × (12 – 6) 2 × (9 – 6)	1 × (12 – 6)	–	–
1 × (120 – 185) 4 × (50 – 185)	1200	AWG/kcmil	1 × (4 – 2/0)	1 × (4 – 3/0)	1 × (4 – 350)	1 × (250 – 350) 4 × (0 – 350)
1 × (120 – 300)	1000	kcmil	–	–	–	1 × (250 – 600)
2 × (95 – 300)		AWG/kcmil	–	–	–	2 × (3/0 – 600)
2 × (95 – 185)	1200	AWG/kcmil	–	–	–	2 × (3/0 – 350)
4 × (35 – 185)		AWG/kcmil	–	–	–	4 × (2 – 350)
4 × 300 6 × (95 – 240)	1200	AWG/kcmil			2 × 500	4 × 600 6 × (3/0 – 500)
–	–	AWG	–	–	–	–
–	–	AWG/kcmil	–	–	–	–
–	–	AWG/kcmil	–	–	–	–
4 × (50 – 240)	1200	AWG/kcmil	–	–	–	–
–	–	AWG	–	–	–	–
–	–	AWG/kcmil	–	–	–	–
1 × (185 – 240)	on request	kcmil	–	–	–	–
2 × (70 – 185)	on request	AWG/kcmil	–	–	–	–
4 × 50	–	AWG	–	–	–	–
2 × 240 6 × (70 – 240)	on request	AWG/kcmil				–
–	–	mm	2 × 9 × 0.8	2 × 9 × 0.8	6 × 16 × 0.8	–
–	–	mm	9 × 9 × 0.8	10 × 16 × 0.8	10 × 24 × 1.0 + 5 × 24 × 1.0 (2 ×) 8 × 24 × 1.0	–
6 × 16 × 0.8	1100	mm	–	–	–	6 × 16 × 0.8
(2 ×) 10 × 32 × 1.0		mm	–	–	–	(2 ×) 10 × 32 × 1.0
(2 ×) 10 × 50 × 1.0	1200	mm	–	–	–	(2 ×) 10 × 50 × 1.0
(2 ×) 10 × 50 × 1.0	1200	mm	–	2 × 16 × 0.8	6 × 16 × 0.8	(2 ×) 10 × 50 × 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
(2 ×) 10 × 80 × 1.0	1200	mm	–	–	(2 ×) 10 × 50 × 1.0	(2 ×) 10 × 80 × 1.0
M10	–	–	M6	M8	M10	M10
25 × 5	1200	mm	12 × 5	16 × 5	20 × 5	25 × 5
2 × (50 × 10)		mm	16 × 5	20 × 5	30 × 10 +30 × 5	2 × (50 × 10)
25 × 5	1200	mm	–	–	–	25 × 5
2 × (50 × 10)		mm	–	–	–	2 × (50 × 10)
2 × (50 × 10)	1200	mm	–	–	–	2 × (50 × 10)
60 × 10	1200	mm	–	–	–	60 × 10
2 × (80 × 10)		mm	–	–	2 × (10 × 50)	2 × (80 × 10)

For Immediate Delivery call KMParts.com at (866) 595-9616

		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

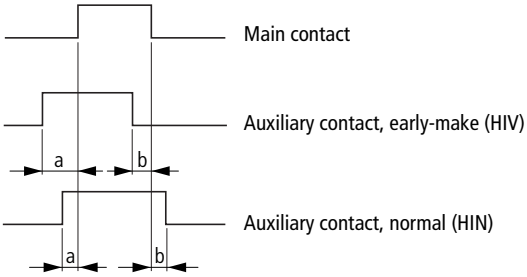
For Immediate Delivery call KMParts.com at (866) 595-9616

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

For Immediate Delivery call KMParts.com at (866) 595-9616

			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		mm^2	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		mm^2	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 – 525	12 – 600	230	230
DC	U_s	V DC	12 – 525	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		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)	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)

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

				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	110 – 440	110 – 440	110 – 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	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
	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

For Immediate Delivery call KMParts.com at (866) 595-9616

			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

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

			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 SU)	35.5 × 90 × 58 (2 SU)	35.5 × 90 × 58 (2 SU)
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

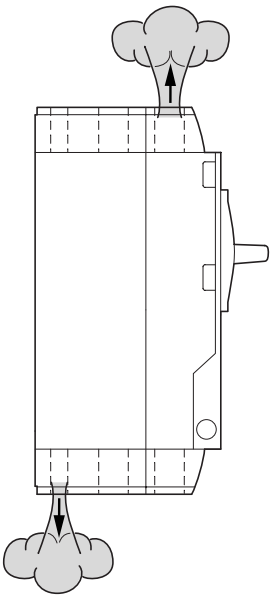
For Immediate Delivery call KMParts.com at (866) 595-9616

			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

For Immediate Delivery call KMParts.com at (866) 595-9616

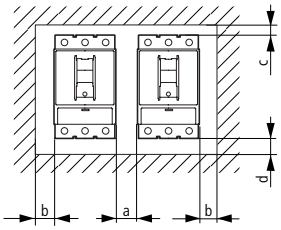
Moeller SK1230-1157EN-NA

Direction of blow-out



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

Minimum clearance



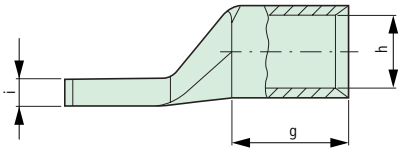
Between two switches mounted side-by-side
Minimum clearance a in mm

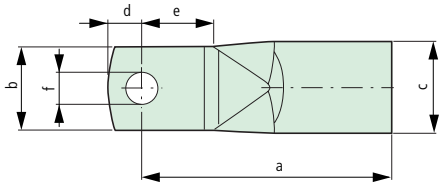
	NZM1	NZM2	NZM3	NZM4
NZM1	0	5	5	15
NZM2	5	5	5	15
NZM3	5	5	5	15
NZM4	15	15	15	15

Between switch and other components
Minimum clearance in mm

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

Dimensions

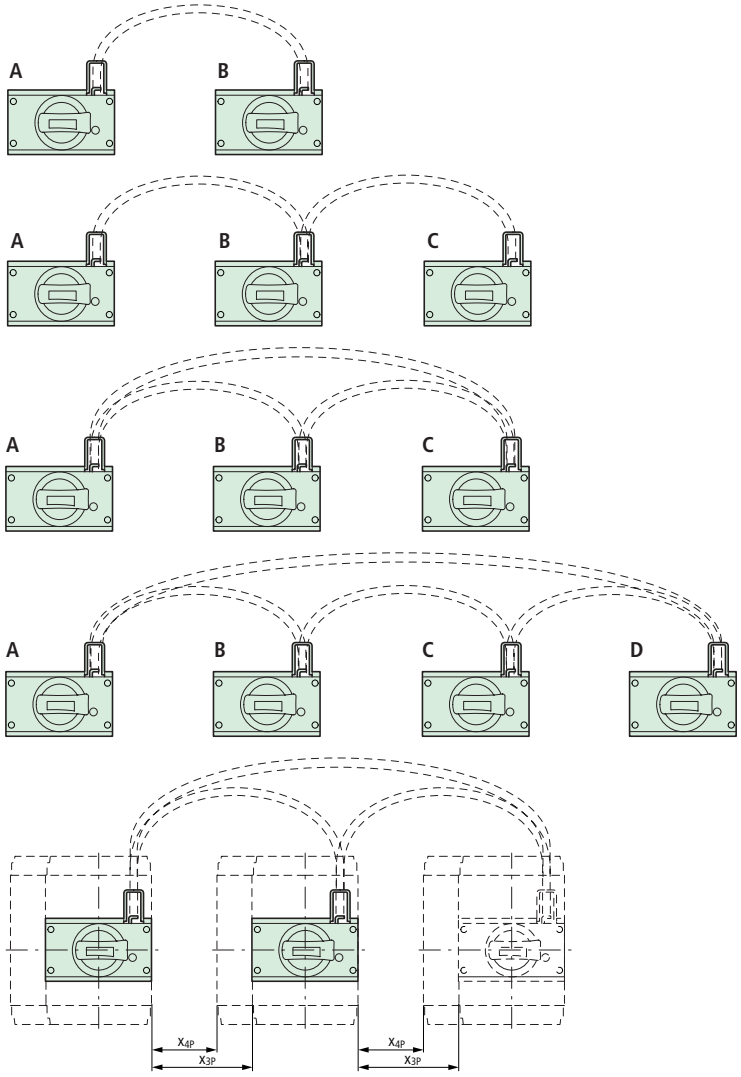




Cable lug	For use with	Nominal cross-section	Terminal bolts	Dimensions in mm								
		mm²	∅	a	b	c	d	e	f	g	h	i
KS95-NZM7	NZM2	95	M8	53^{+2}	$23^{\pm0.5}$	$18^{\pm0.2}$	$10^{\pm1}$	19	8,5	25	13,5	4,4
KS120-NZM7	NZM2	120	M8	56^{+2}	$23^{\pm0.5}$	$19.5^{\pm0.2}$	$10^{\pm1}$	19	8,5	26	15	4,4
KS150-NZM7	NZM2	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	$5.0^{\pm0.8}$

For Immediate Delivery call KMParts.com at (866) 595-9616

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

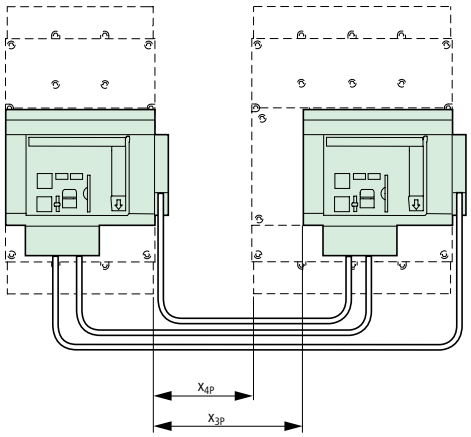
NZM-XBZ225					
Max. switch clearance		NZM1	NZM2	NZM3	NZM4
		X_{3P}	X_{3P}	X_{3P}	X_{3P}
		mm	mm	mm	mm
NZM1	3 pole	135	120	135	125
NZM2	3 pole	135	120	135	125
NZM3	3 pole	90	75	85	80
NZM4	3 pole	50	40	25	15

NZM-XBZ600					
Max. switch clearance		NZM1	NZM2	NZM3	NZM4
		X_{3P}	X_{3P}	X_{3P}	X_{3P}
		mm	mm	mm	mm
NZM1	3 pole	510	495	510	475
NZM2	3 pole	510	495	510	475
NZM3	3 pole	460	450	460	460
NZM4	3 pole	400	380	400	390

NZM-XBZ1000					
Max. switch clearance		NZM1	NZM2	NZM3	NZM4
		X_{3P}	X_{3P}	X_{3P}	X_{3P}
		mm	mm	mm	mm
NZM1	3 pole	910	895	910	865
NZM2	3 pole	910	895	910	865
NZM3	3 pole	820	850	860	860
NZM4	3 pole	750	730	800	790

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA



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

NZM...-XMVR

Max. switch clearance		NZM2 3 pole	NZM3 3 pole	NZM3 3 pole	NZM4 3 pole	NZM4 3 pole
NZM2	3 pole	130	–	–	–	–
NZM3	3 pole	95	135	135	200	200
NZM4	3 pole	–	–	–	160	160

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

NZM...-XMVRL

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

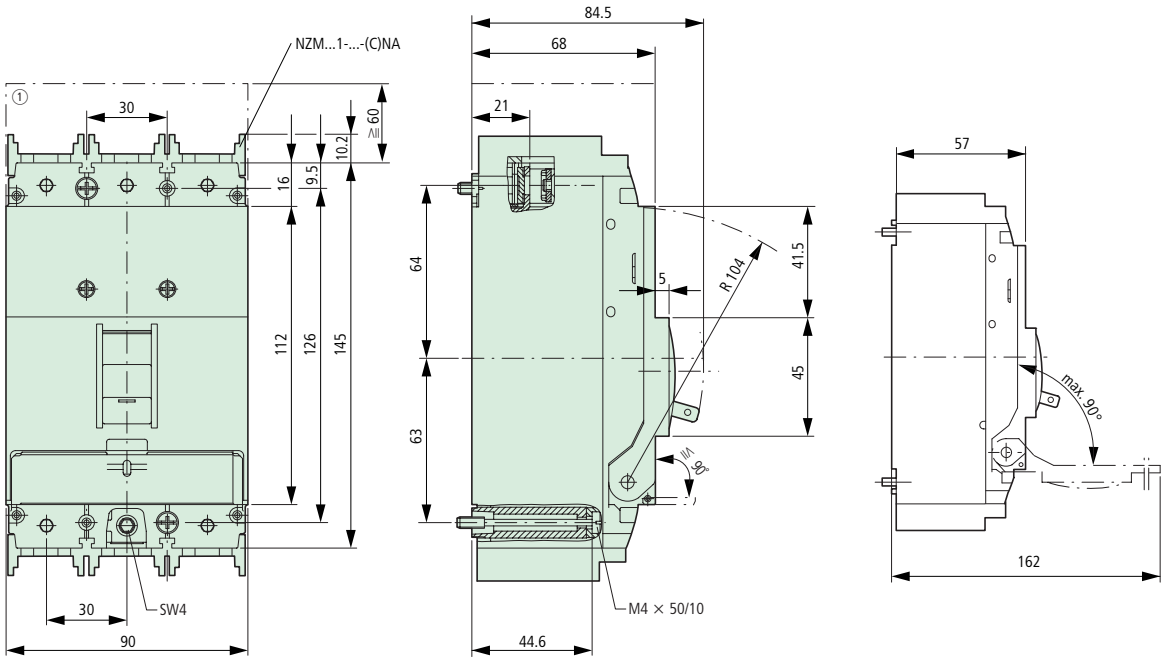
For Immediate Delivery call KMParts.com at (866) 595-9616

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

Circuit-breaker, disconnect switch, 3-pole

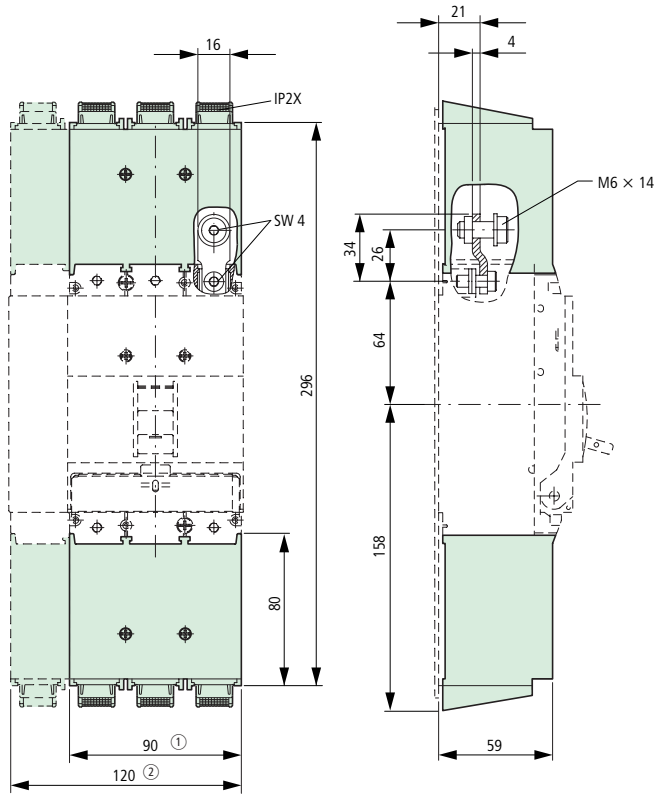
NZMB1, NZMN1, NZMH1, N1, NS1



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

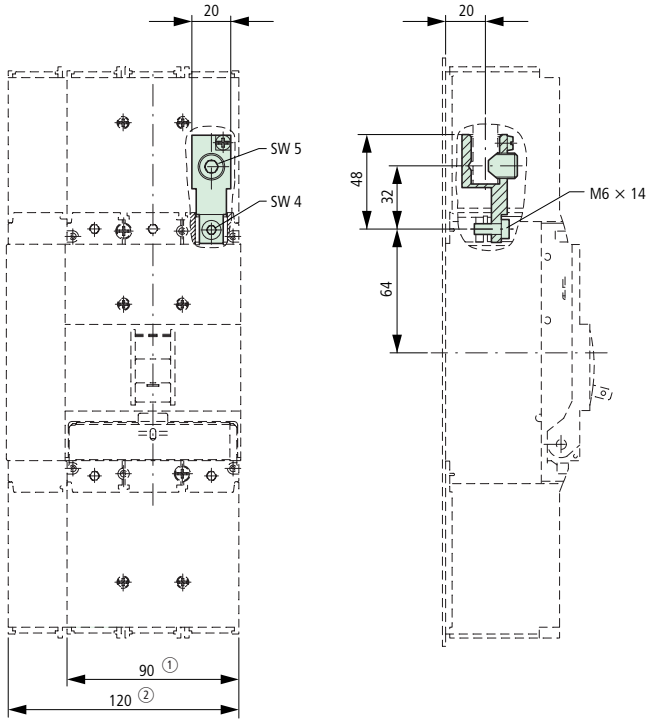
For Immediate Delivery call KMParts.com at (866) 595-9616

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



① 3-pole
② 4-pole

NZM1 tunnel terminal
NZM1-XKA



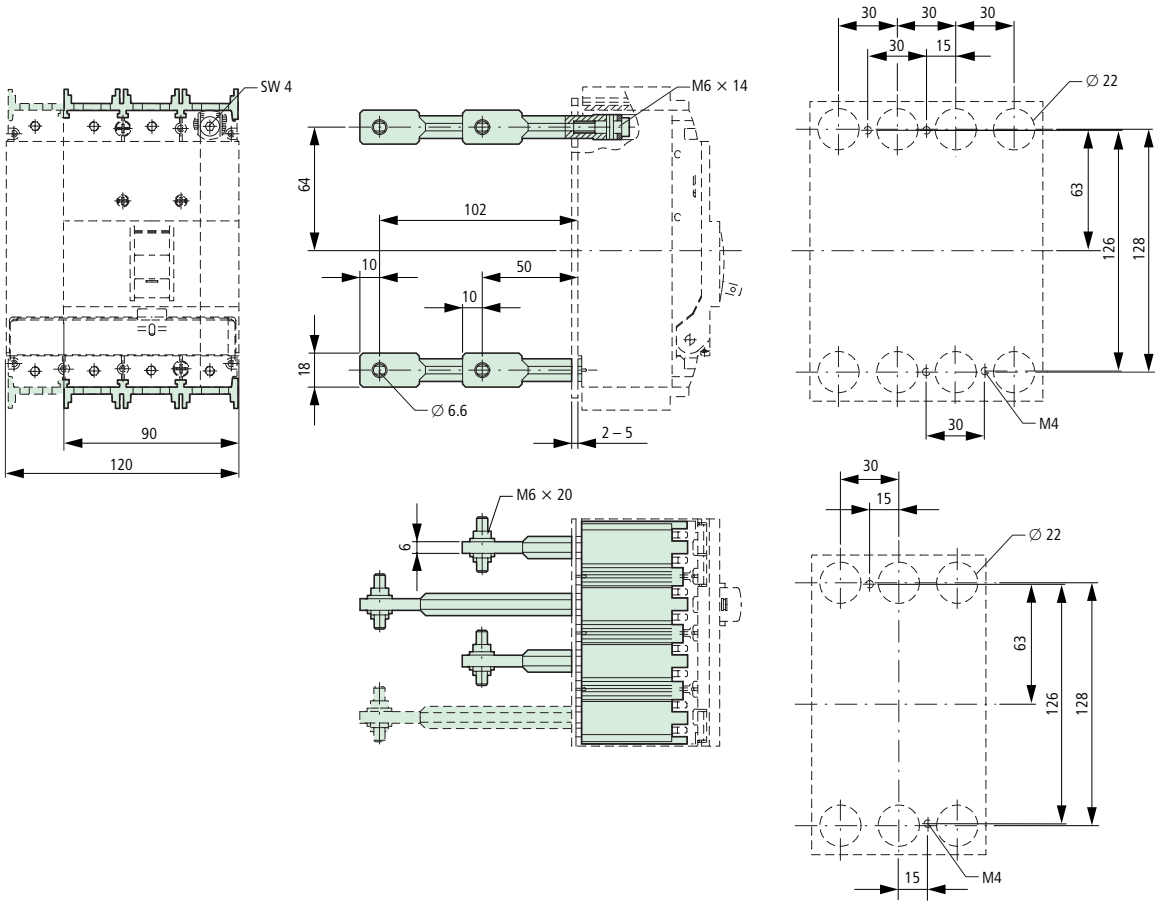
① 3-pole
② 4-pole

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

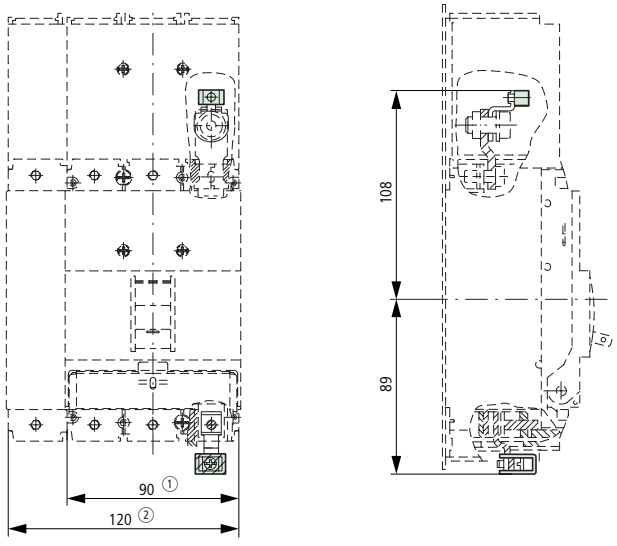
Connection on rear

NZM1-XKR



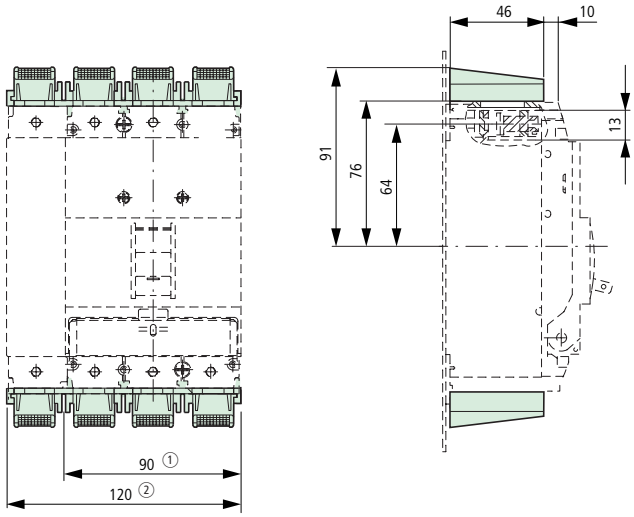
Control circuit terminal

NZM-XSTK, NZM1-XSTS



IP2X protection against contact with a finger

NZM1-XIPK

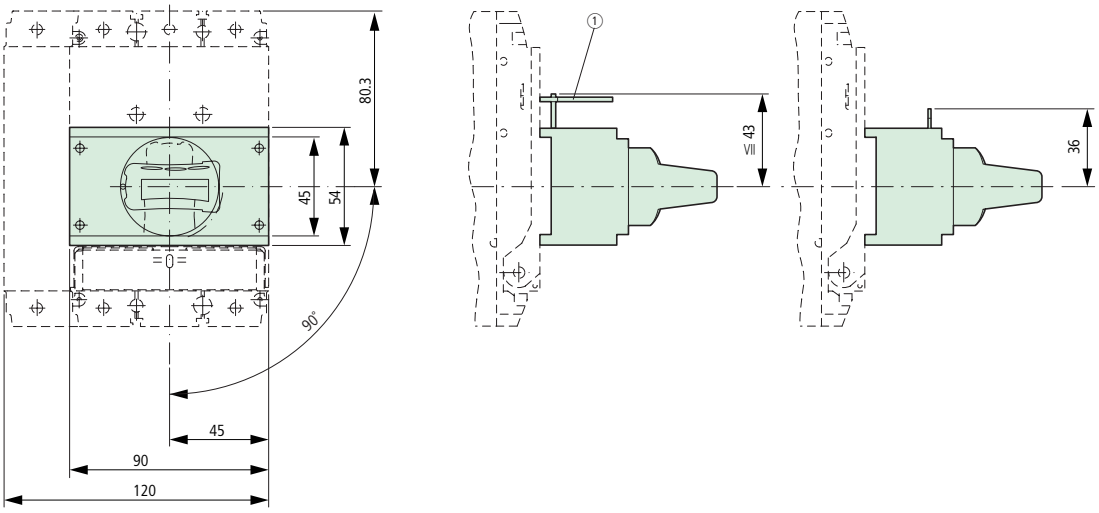


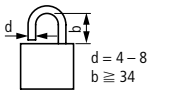
① 3-pole
② 4-pole

For Immediate Delivery call KMParts.com at (866) 595-9616

Rotary handle for circuit-breaker

NZM1-XDV(R) NZM1-XDTV

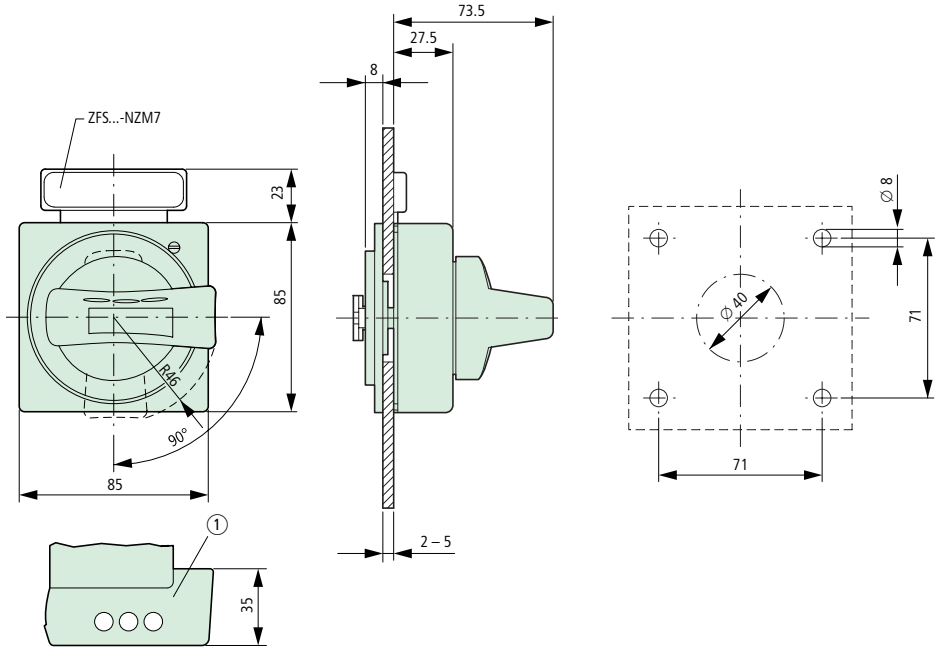


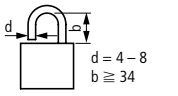


① Up to 3 padlocks

Door coupling rotary handle

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





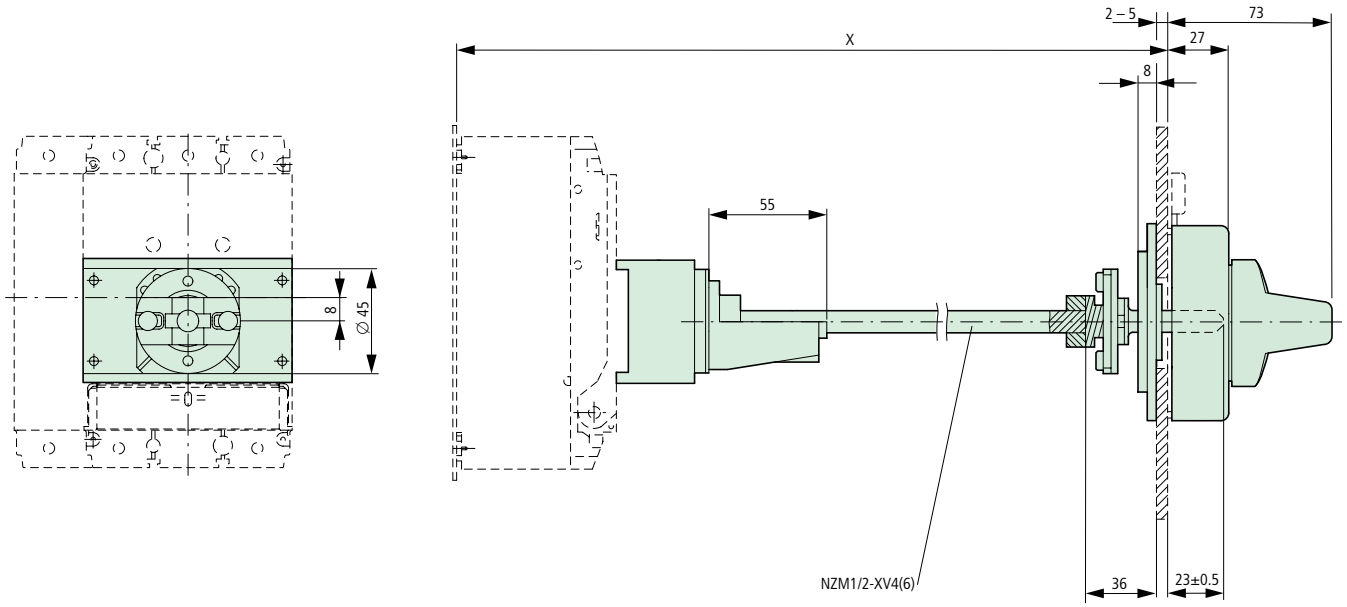
① Up to 3 padlocks

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

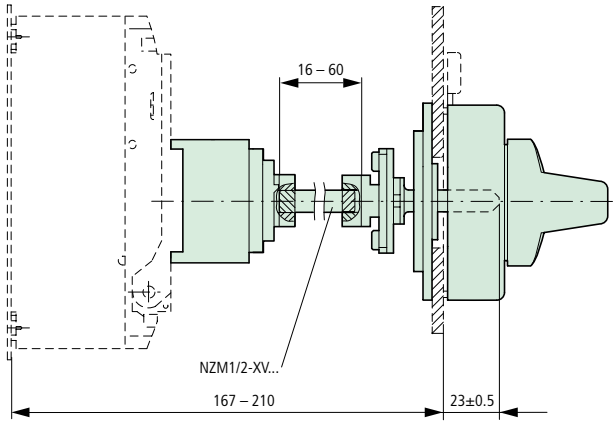
Door coupling rotary handle with extension shaft

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

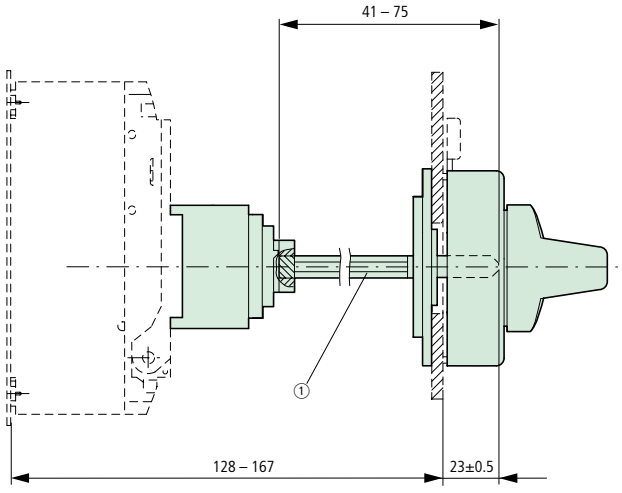


	x
NZM1/2-XV4	210 – 400
NZM1/2-XV6	400 – 600

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

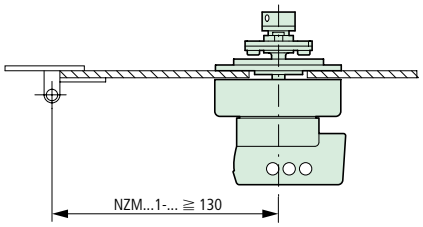


NZM1-XT(V)D(V)(R)-0(-NA)



① Special tip

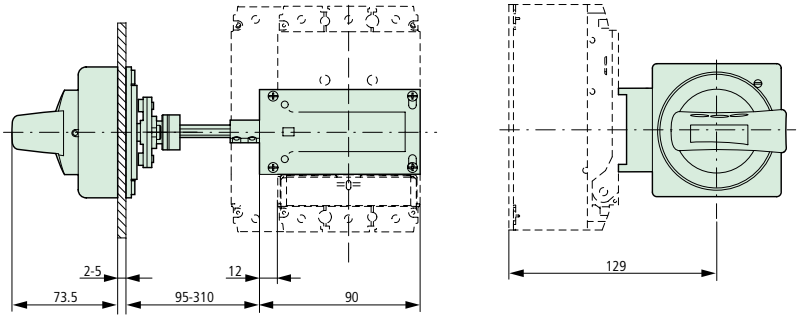
Minimum door coupling rotary handle clearance from door pivot point



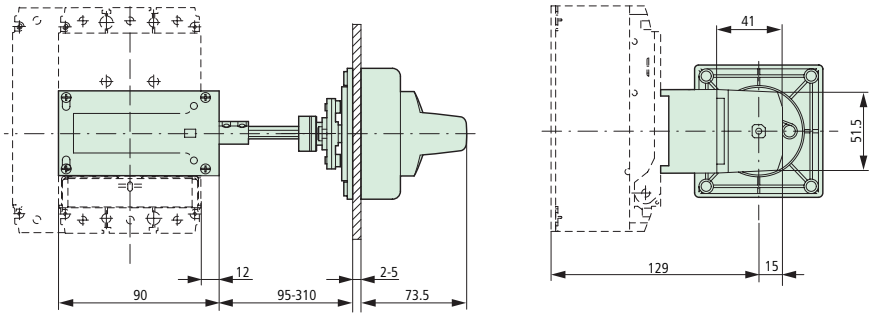
For Immediate Delivery call KMParts.com at (866) 595-9616

Main switch assembly kit for side wall installation

NZM1-XS(R)-L

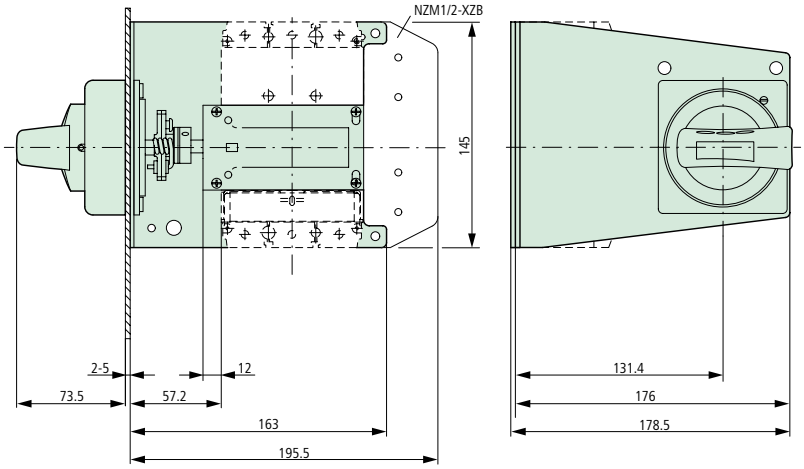


NZM1-XS(R)-R

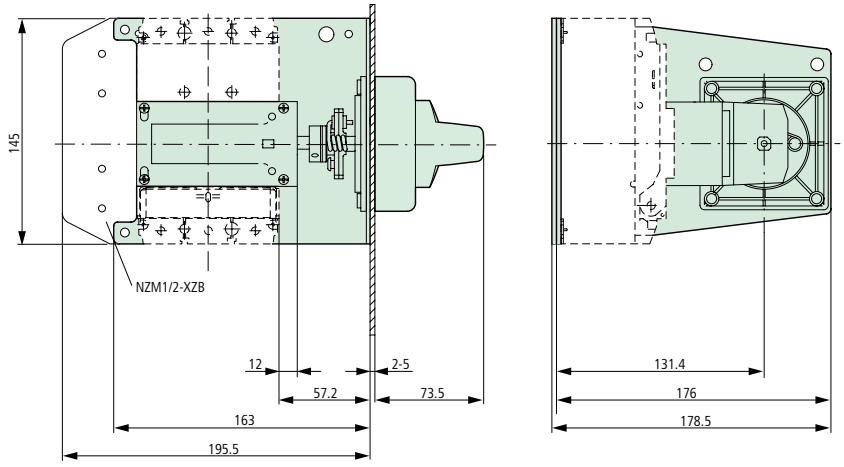


Main switch assembly kit for side panel mounting with mounting bracket

NZM1-XS(R)M-L



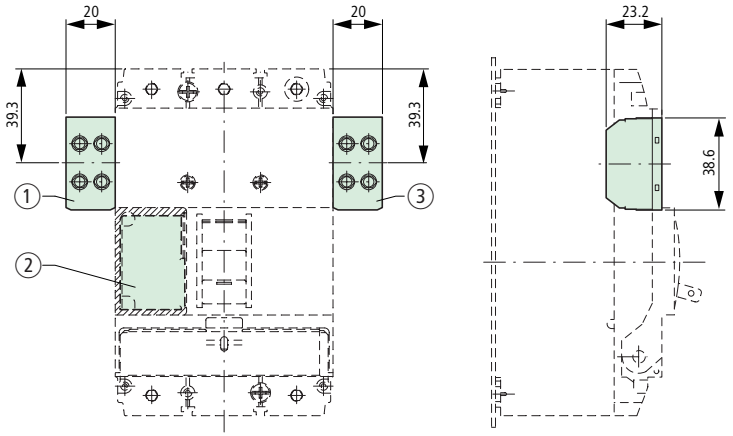
NZM1-XS(R)M-R



For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

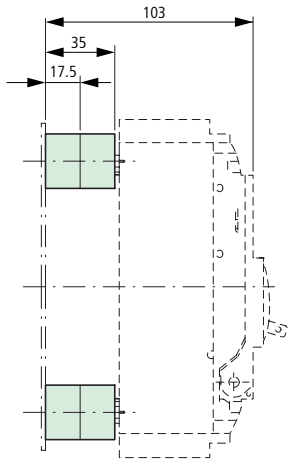
Undervoltage release, shunt release, early-make auxiliary contact



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

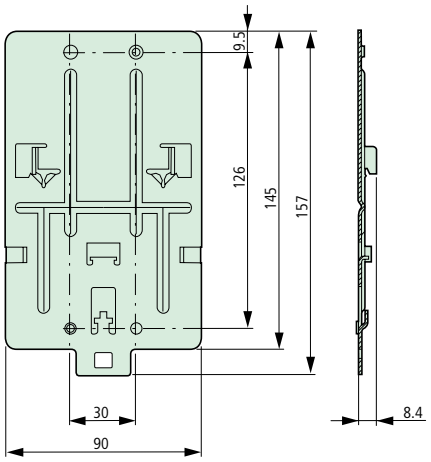
Spacers

NZM1/2-XAB



Clip plates

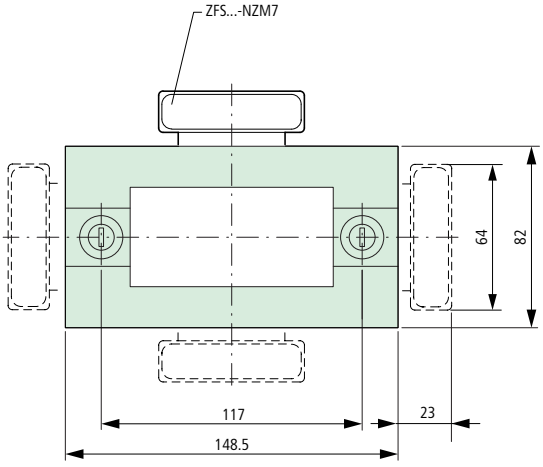
NZM1-XC35



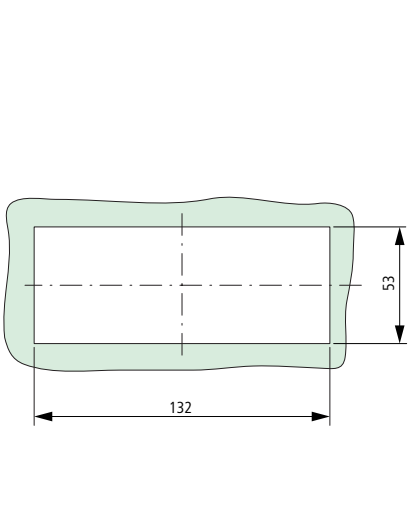
For Immediate Delivery call KMParts.com at (866) 595-9616

Insulating surround

NZM1-XBR

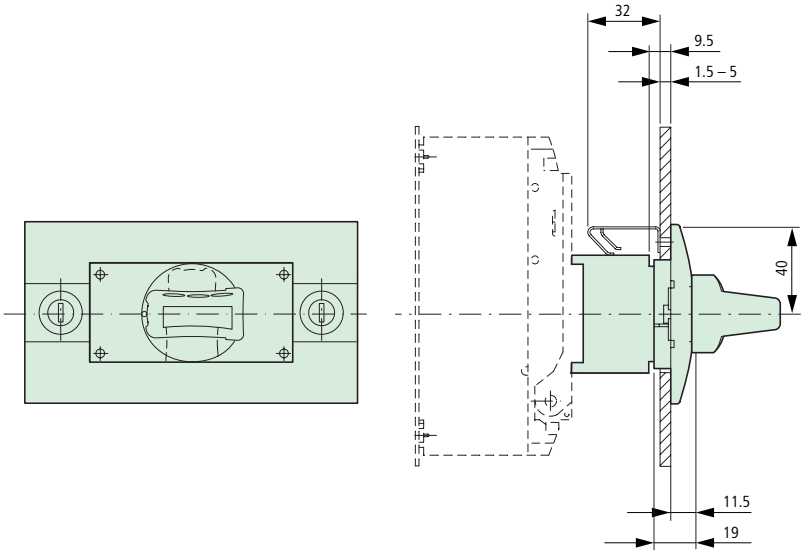


Mounting aperture

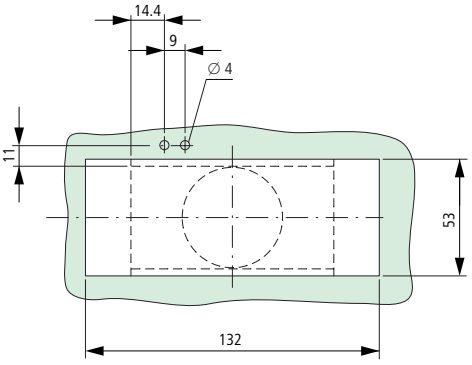


Rotary handle on switch with door interlock

NZM1-XDTV(R)

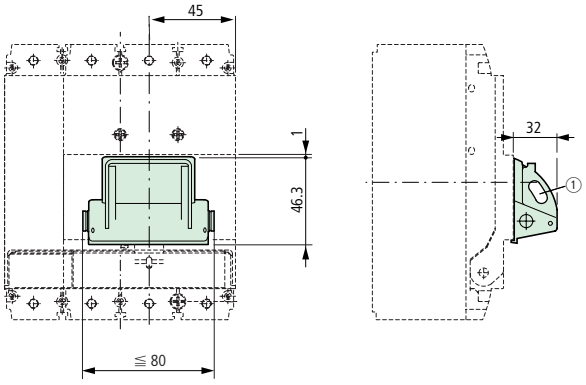


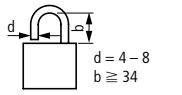
Mounting aperture



Toggle lever interlock device

NZM1-XKAV





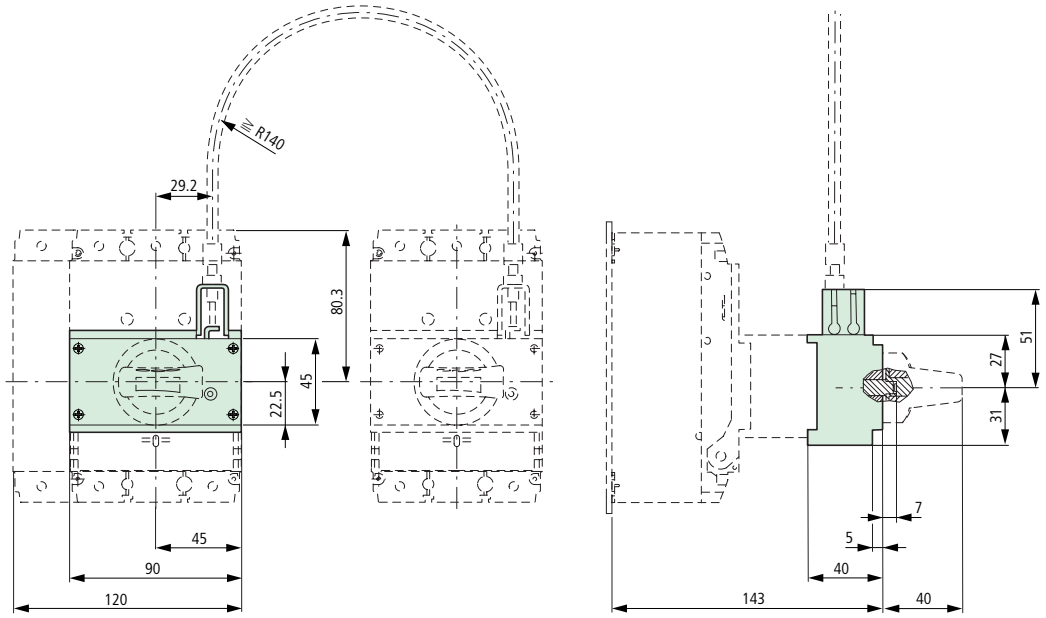
① Up to 3 padlocks

For Immediate Delivery call KMParts.com at (866) 595-9616

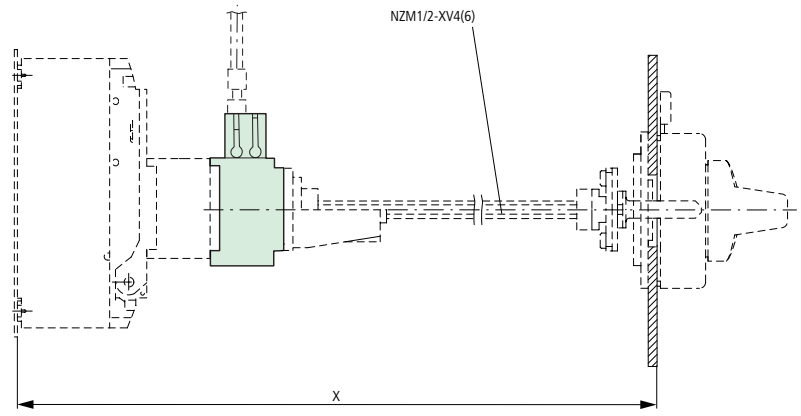
Moeller SK1230-1157EN-NA

Mechanical interlock

NZM1-XMV with NZM1-XDV(R)

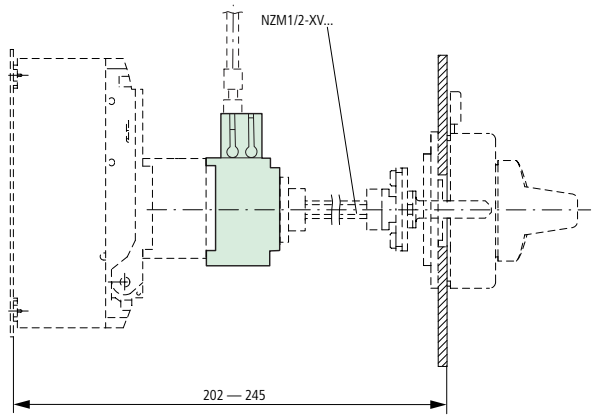


NZM1-XMV with NZM1-XT(V)D(V)(R)

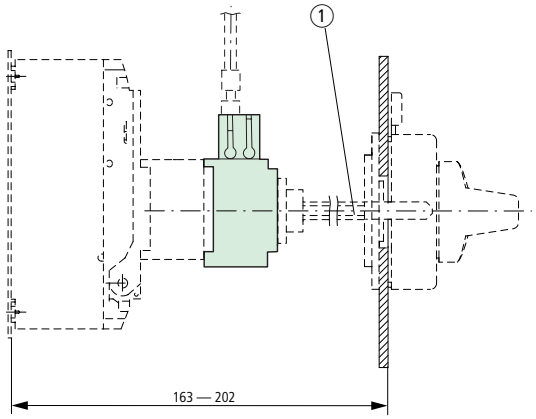


	x
NZM1/2-XV4	245 – 400
NZM1/2-XV6	400 – 600

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



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

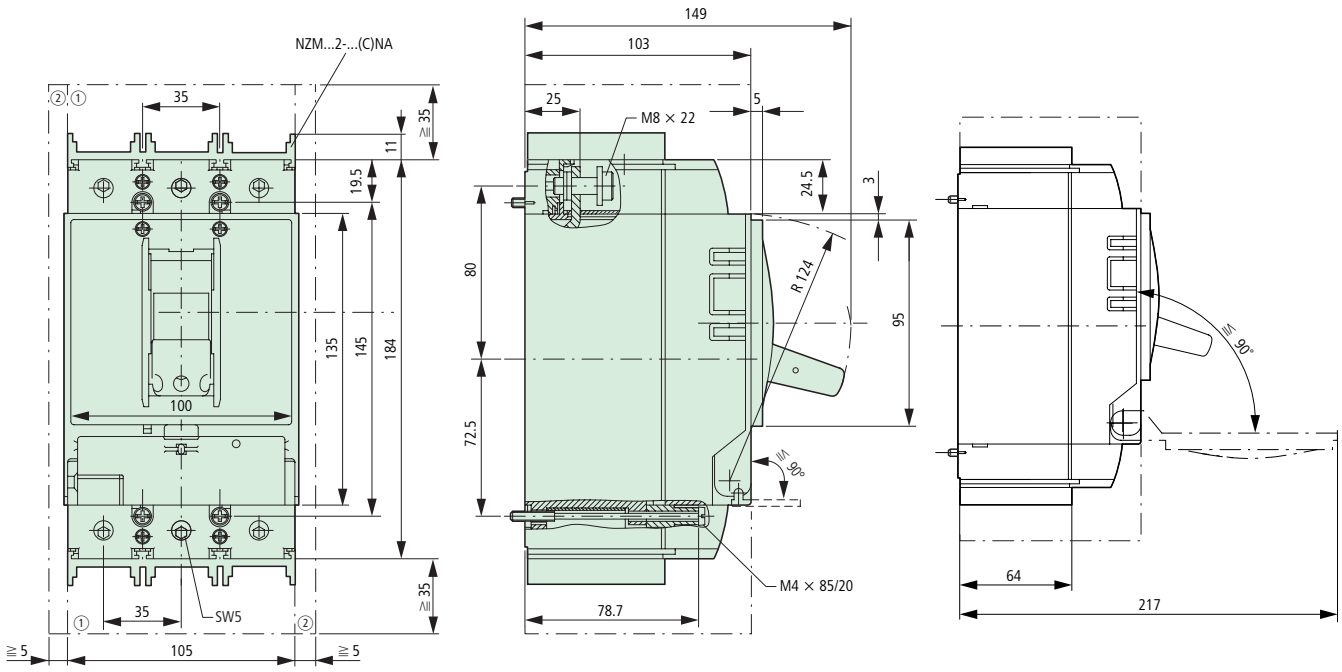


① Special tip

For Immediate Delivery call KMParts.com at (866) 595-9616

Circuit-breaker, disconnect switch, 3-pole

NZMB2, NZMN2, NZMH2, NS2



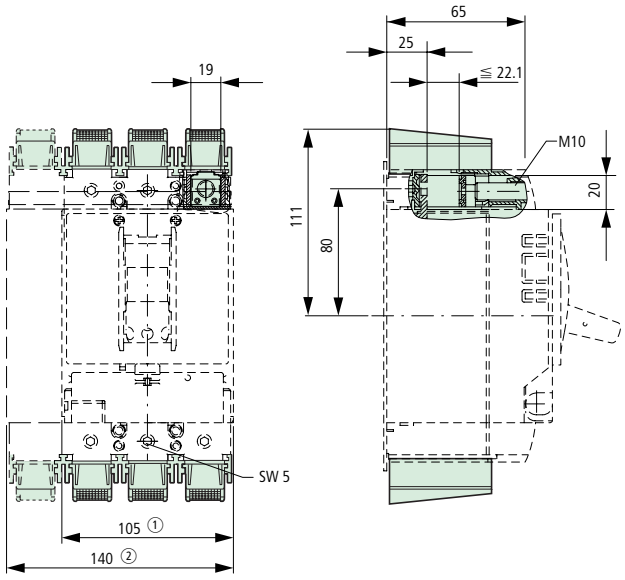
① Blow out area, minimum clearance to other parts≧ 35 mm

② Minimum clearance from adjacent parts ≧ 5 mm

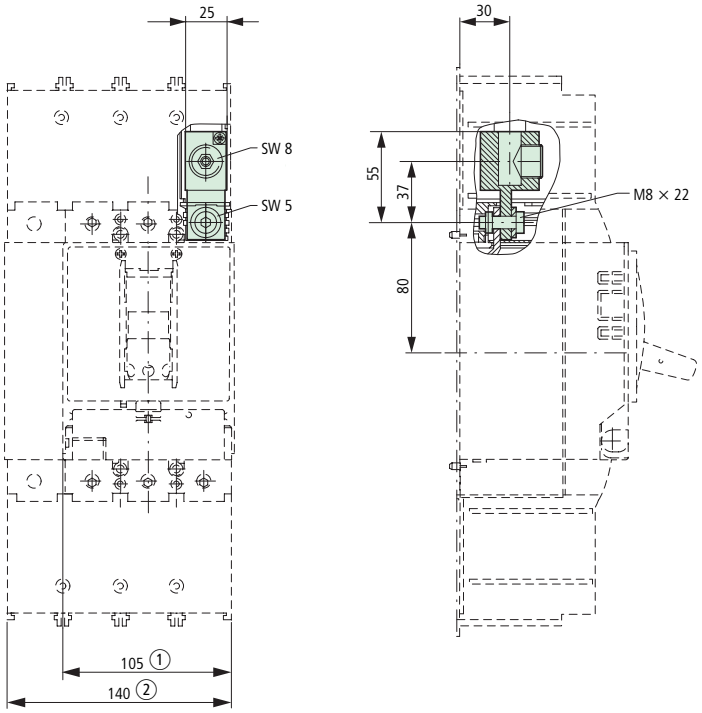
For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

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

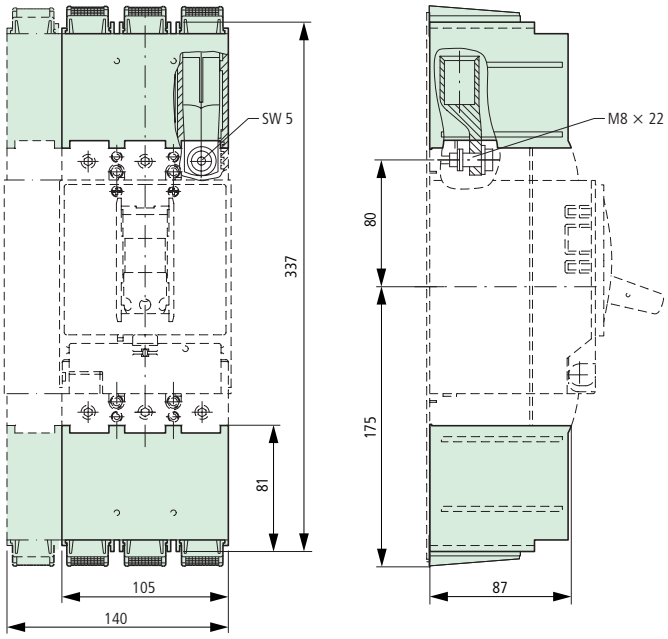


Tunnel terminal
NZM2-XKA



① 3-pole
② 4-pole

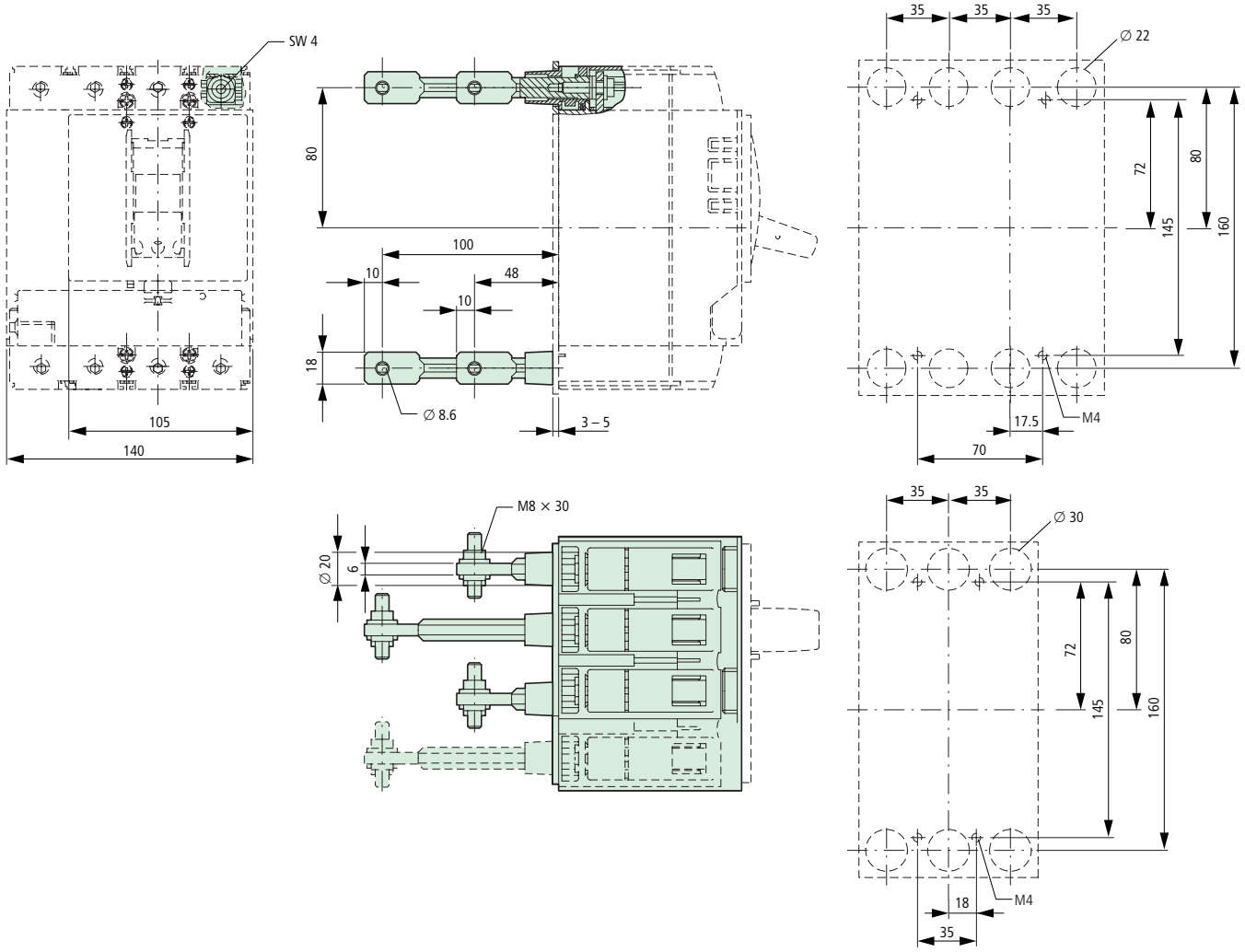
Cover for screw terminals
NZM2-XKSA
Cable lug
NZM2-XKS185
IP2X protection against contact with a finger for shroud
NZM2-XIPA



For Immediate Delivery call KMParts.com at (866) 595-9616

Connection on rear

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

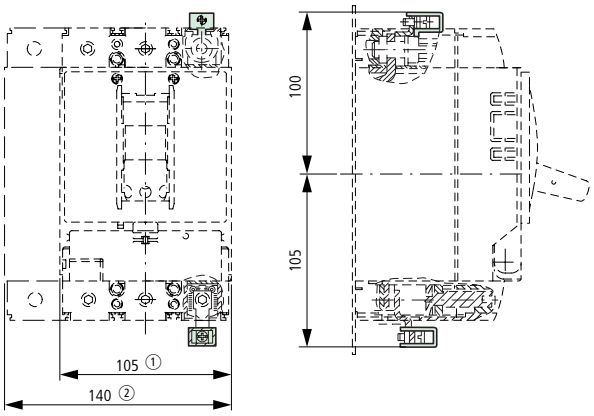


For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

Control circuit terminal

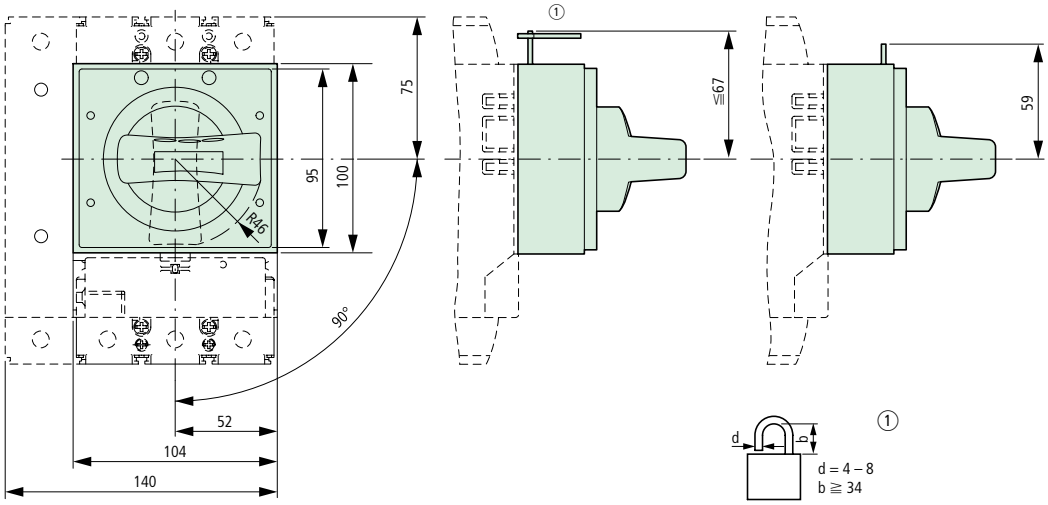
NZM2-XSTS, NZM-XSTK



① 3-pole
② 4-pole

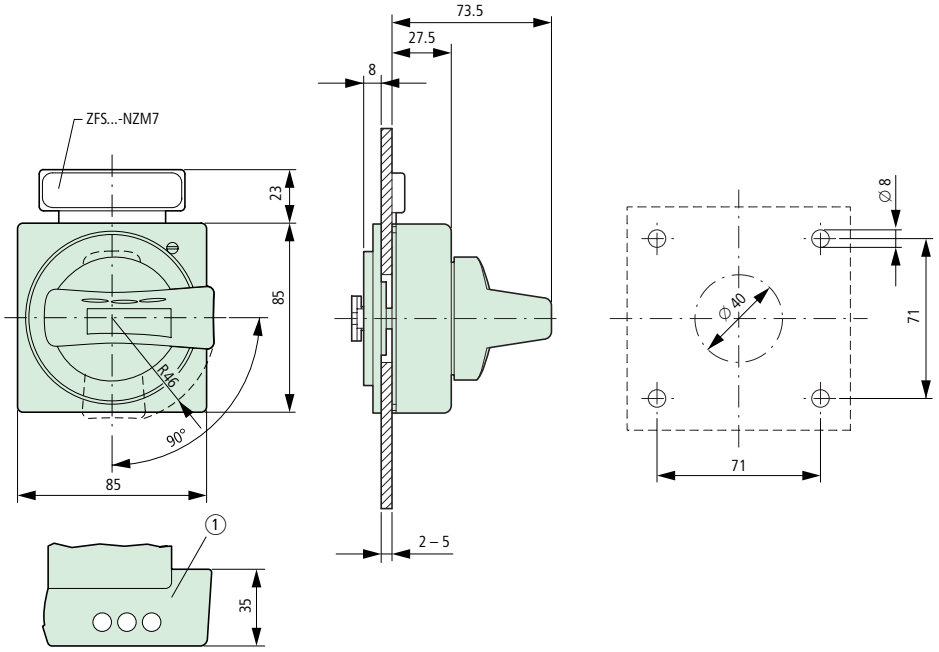
Rotary handle for circuit-breaker

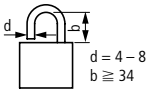
NZM2-XDV(R) NZM2-XDTV(R)



Door coupling rotary handle

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





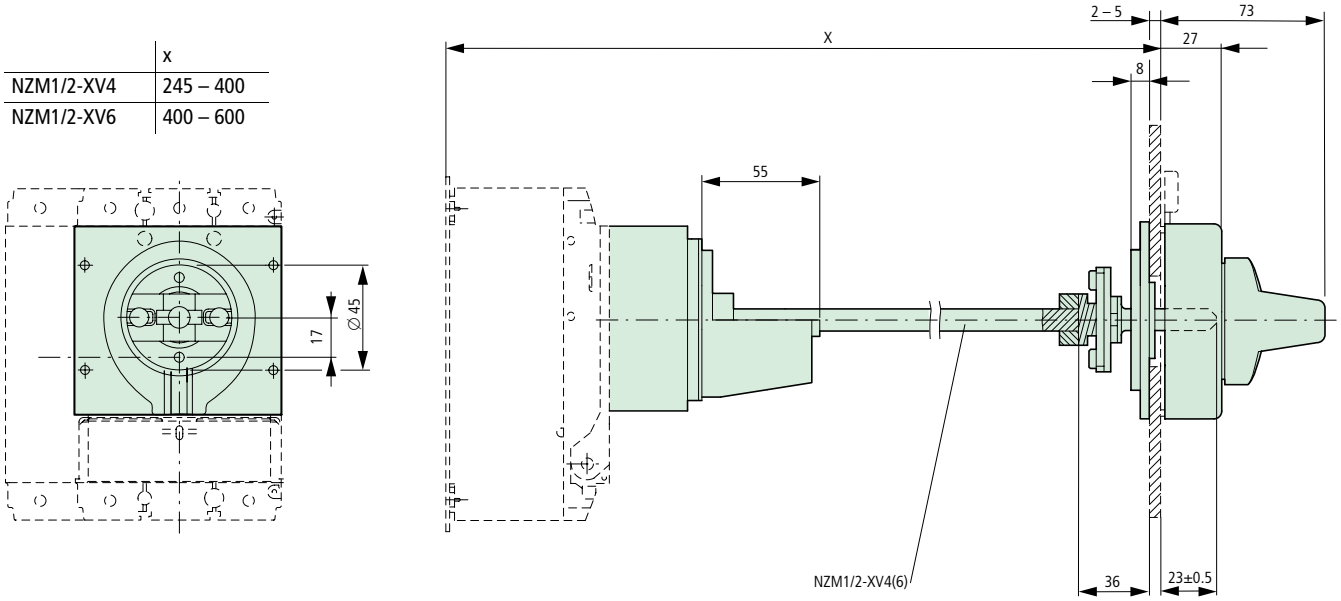
① Up to 3 padlocks

For Immediate Delivery call KMParts.com at (866) 595-9616

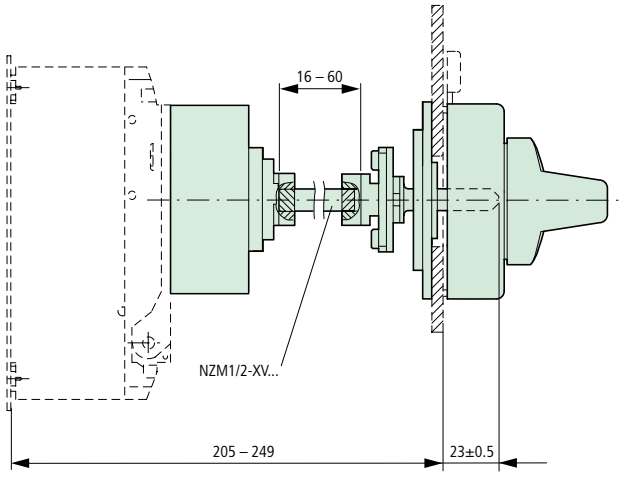
Door coupling rotary handle with extension shaft

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

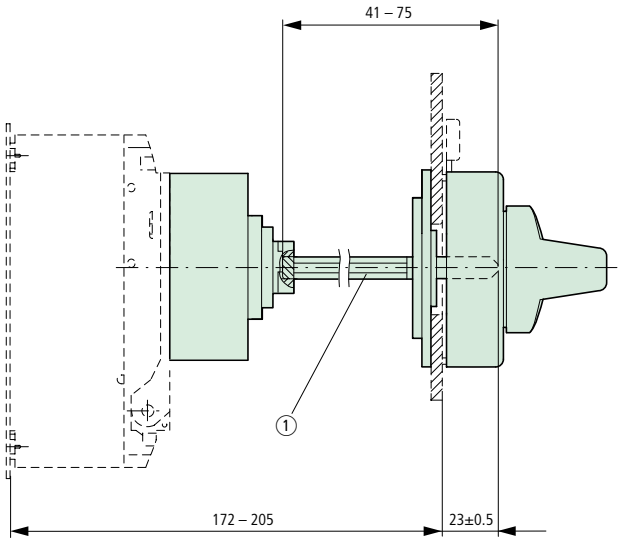
	x
NZM1/2-XV4	245 – 400
NZM1/2-XV6	400 – 600



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

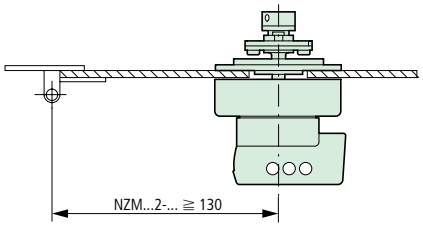


NZM2-XT(V)D(V)(R)-0(-NA)



① Special tip

Minimum door coupling rotary handle clearance from door pivot point

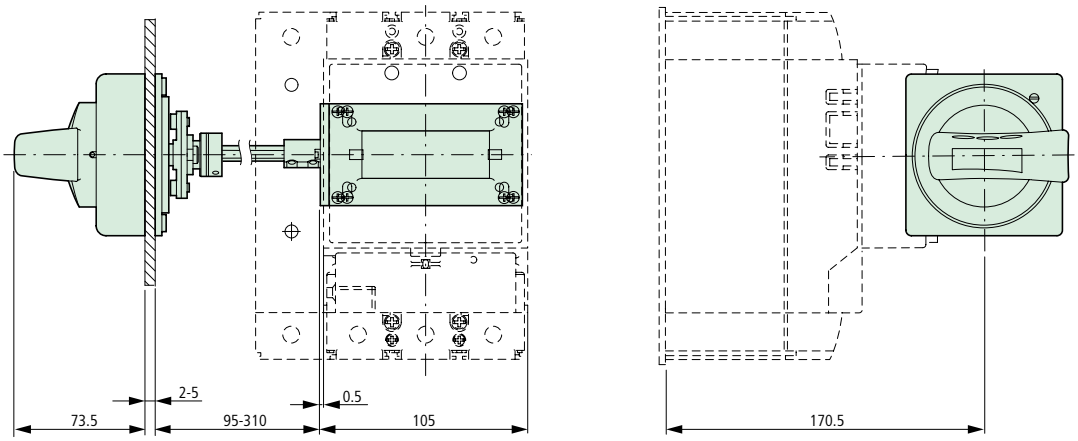


For Immediate Delivery call KMParts.com at (866) 595-9616

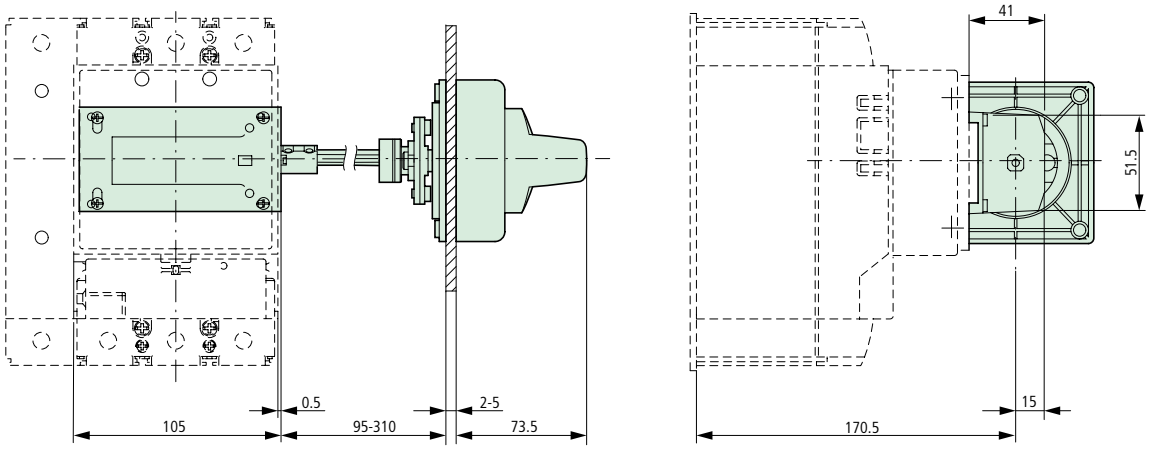
Moeller SK1230-1157EN-NA

Main switch assembly kit for side wall installation

NZM2-XS(R)-L



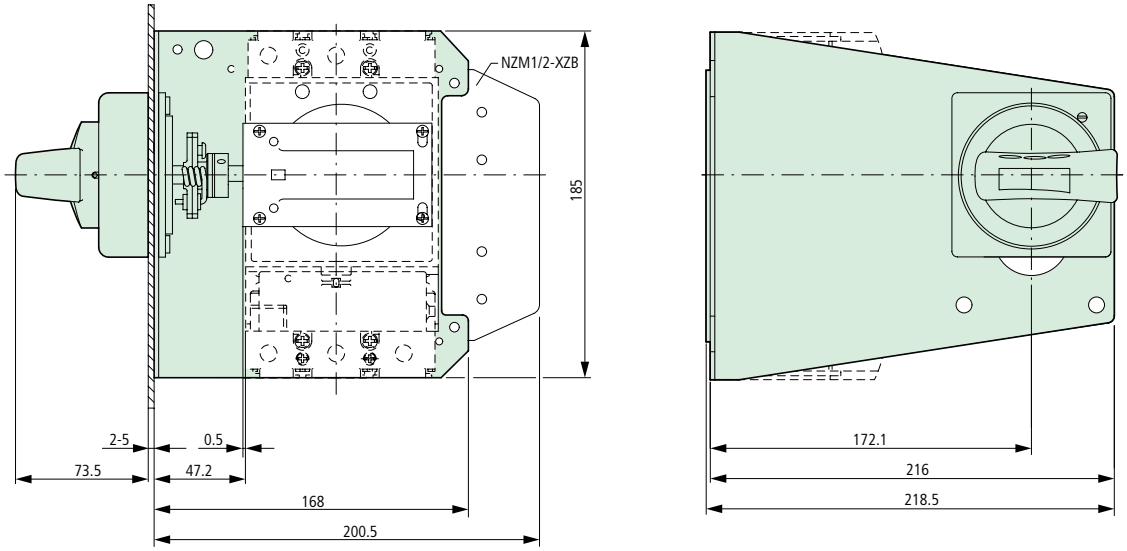
NZM2-XS(R)-R



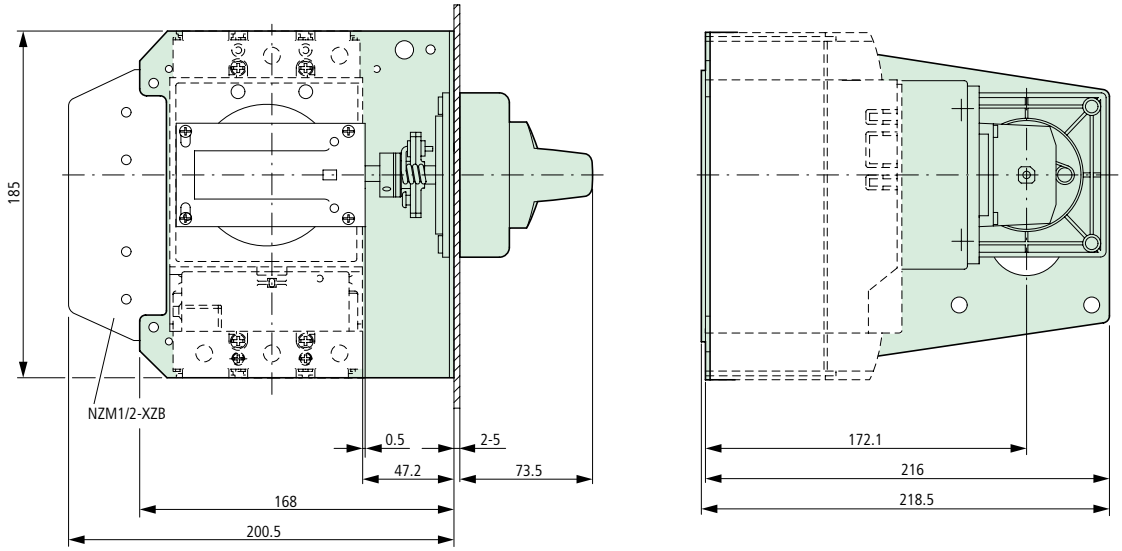
For Immediate Delivery call KMParts.com at (866) 595-9616

Main switch assembly kit for side panel mounting with mounting bracket

NZM2-XS(R)M-L



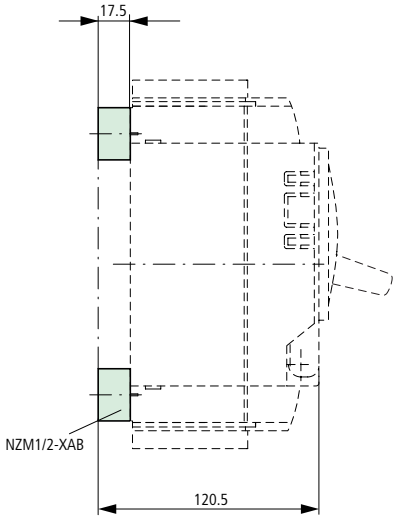
NZM2-XS(R)M-R



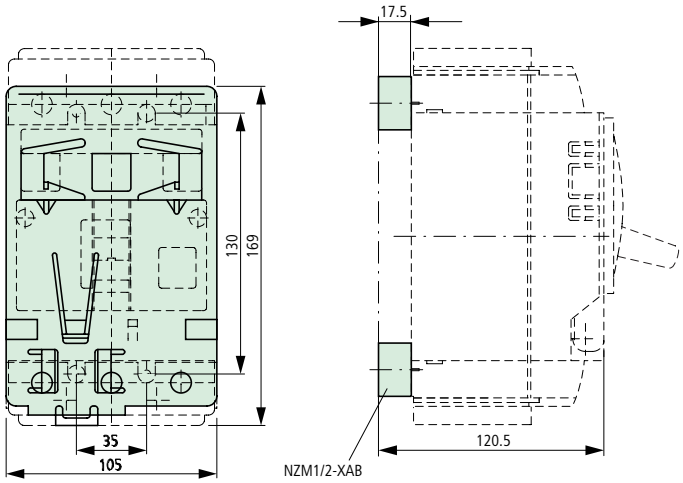
For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

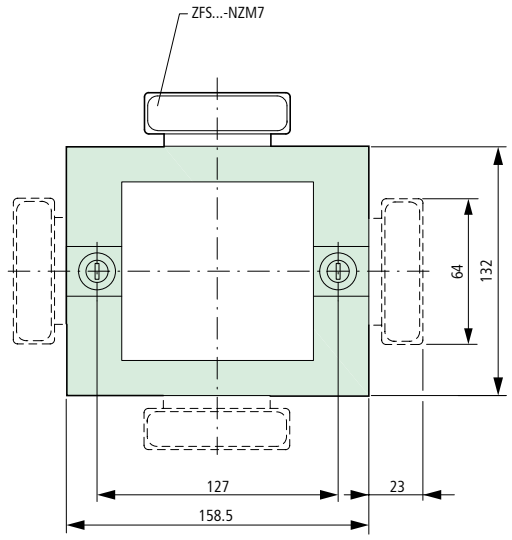
Spacers
NZM1/2-XAB

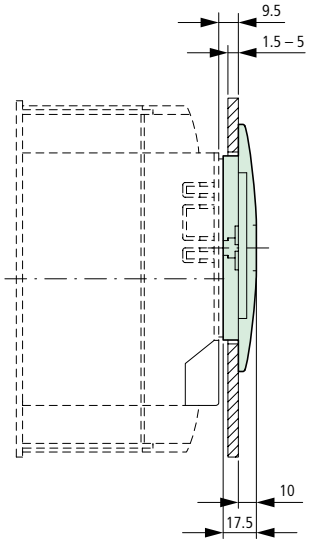


Clip plates
NZM2-XC75

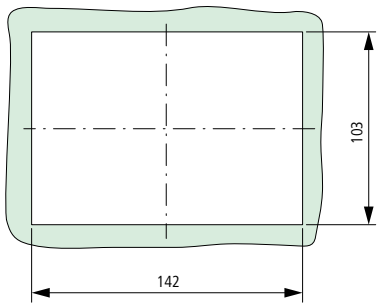


Insulating surround
NZM2-XBR

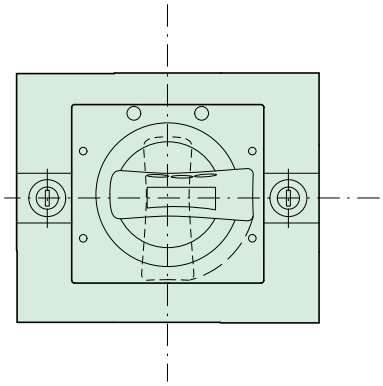


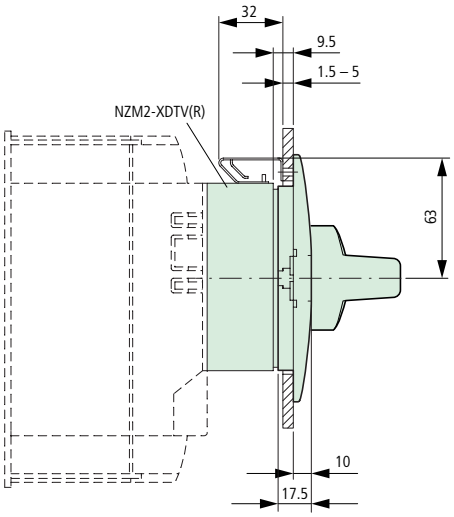


Mounting aperture

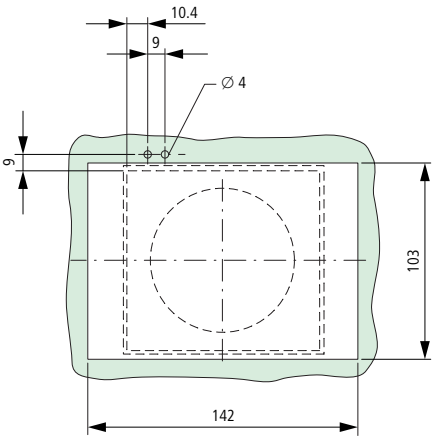


Rotary handle on switch with door interlock
NZM2-XDTV(R)





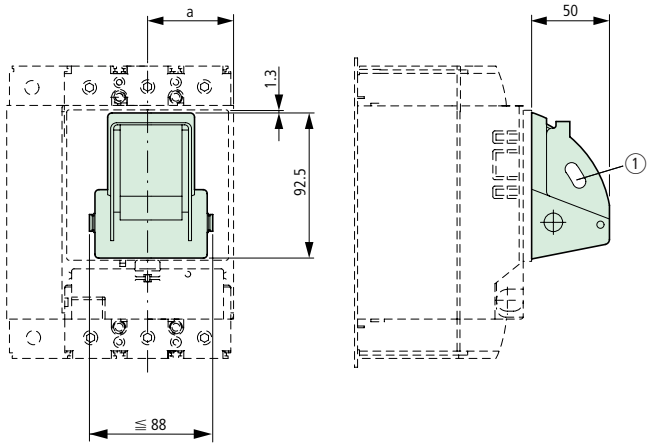
Mounting aperture

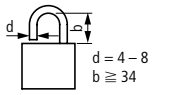


For Immediate Delivery call KMParts.com at (866) 595-9616

Toggle lever interlock device

NZM2/3-XKAV



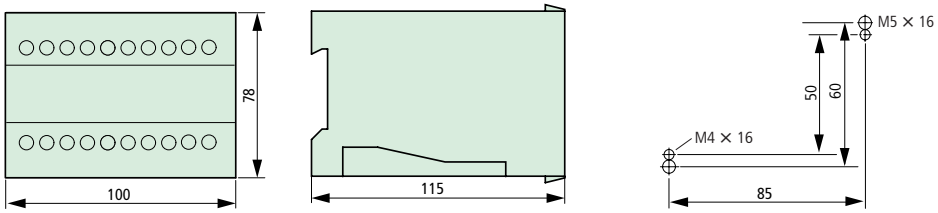


① Up to 3 padlocks

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

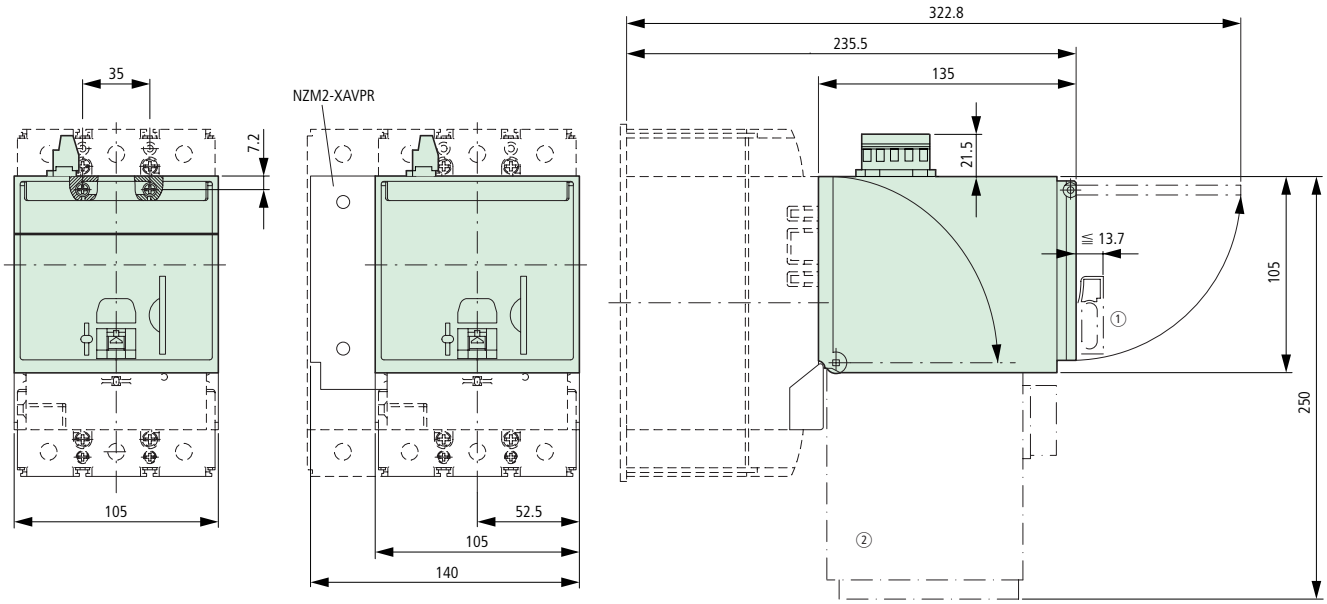
Capacitor unit

NZM-XCM



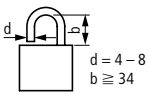
Remote operator

NZM2-XR...



① Up to 3 padlocks

② Remote operator folded

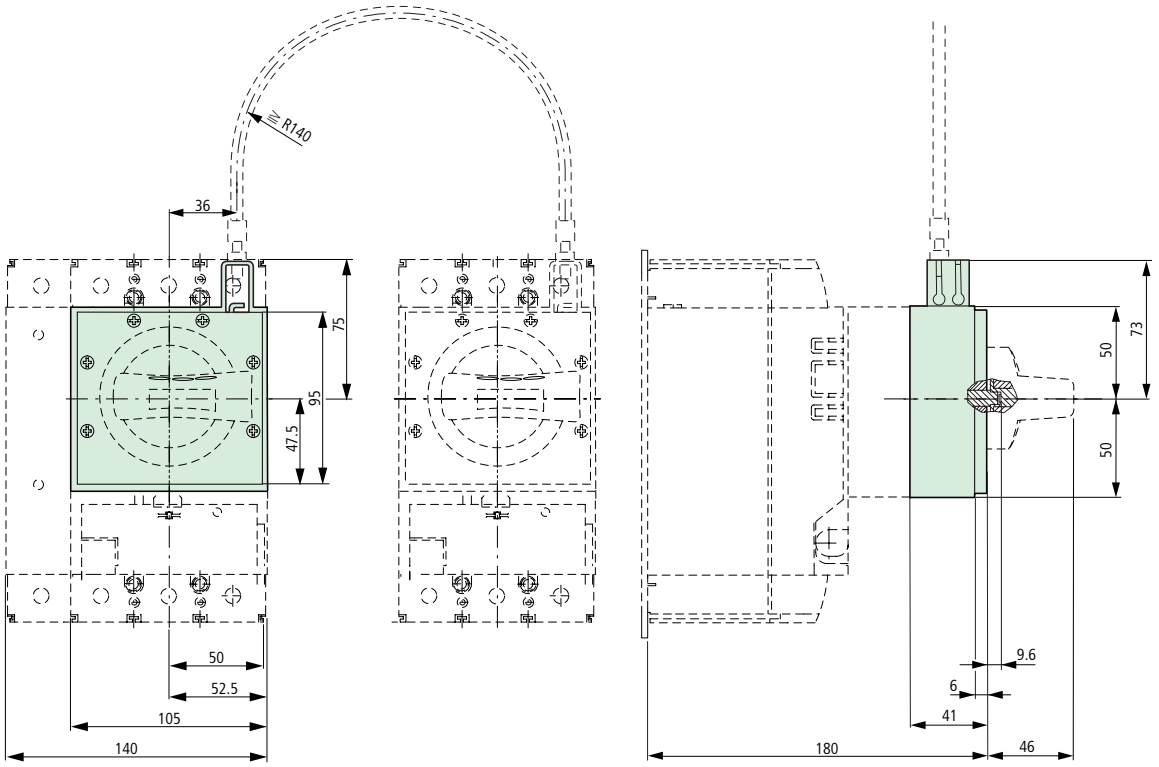


For Immediate Delivery call KMParts.com at (866) 595-9616

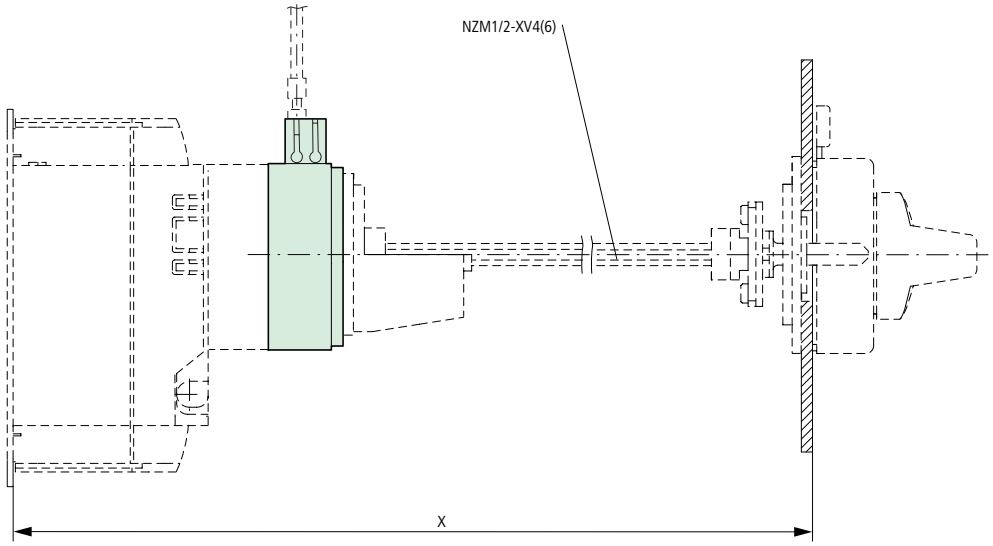
Moeller SK1230-1157EN-NA

Mechanical interlock

NZM2-XMV with NZM2-XDV(R)



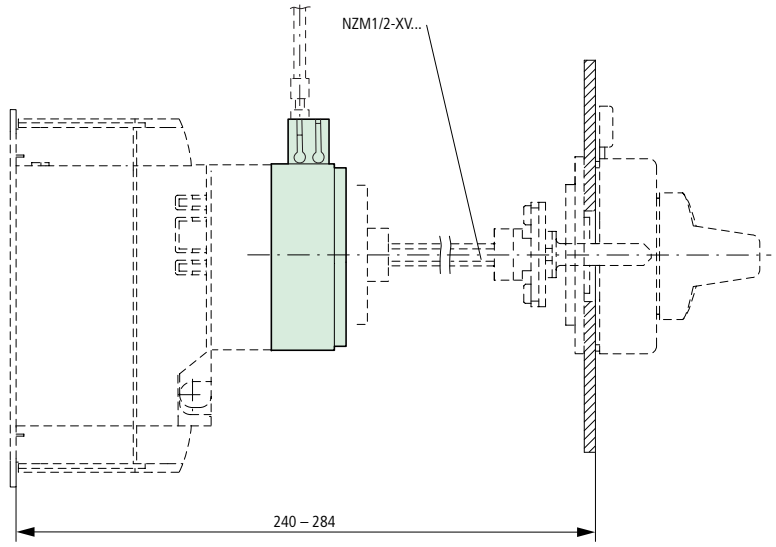
NZM2-XMV with NZM2-XT(V)D(V)(R)



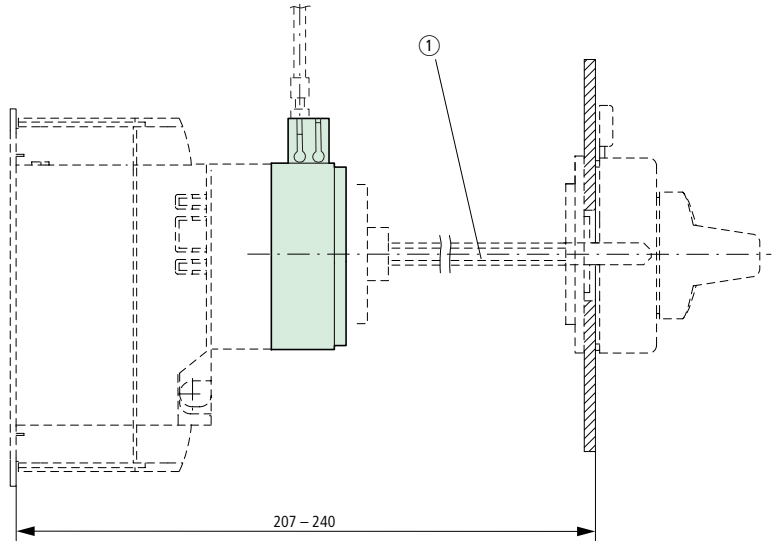
	x
NZM1/2-XV4	280 – 400
NZM1/2-XV6	400 – 600

For Immediate Delivery call KMParts.com at (866) 595-9616

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



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

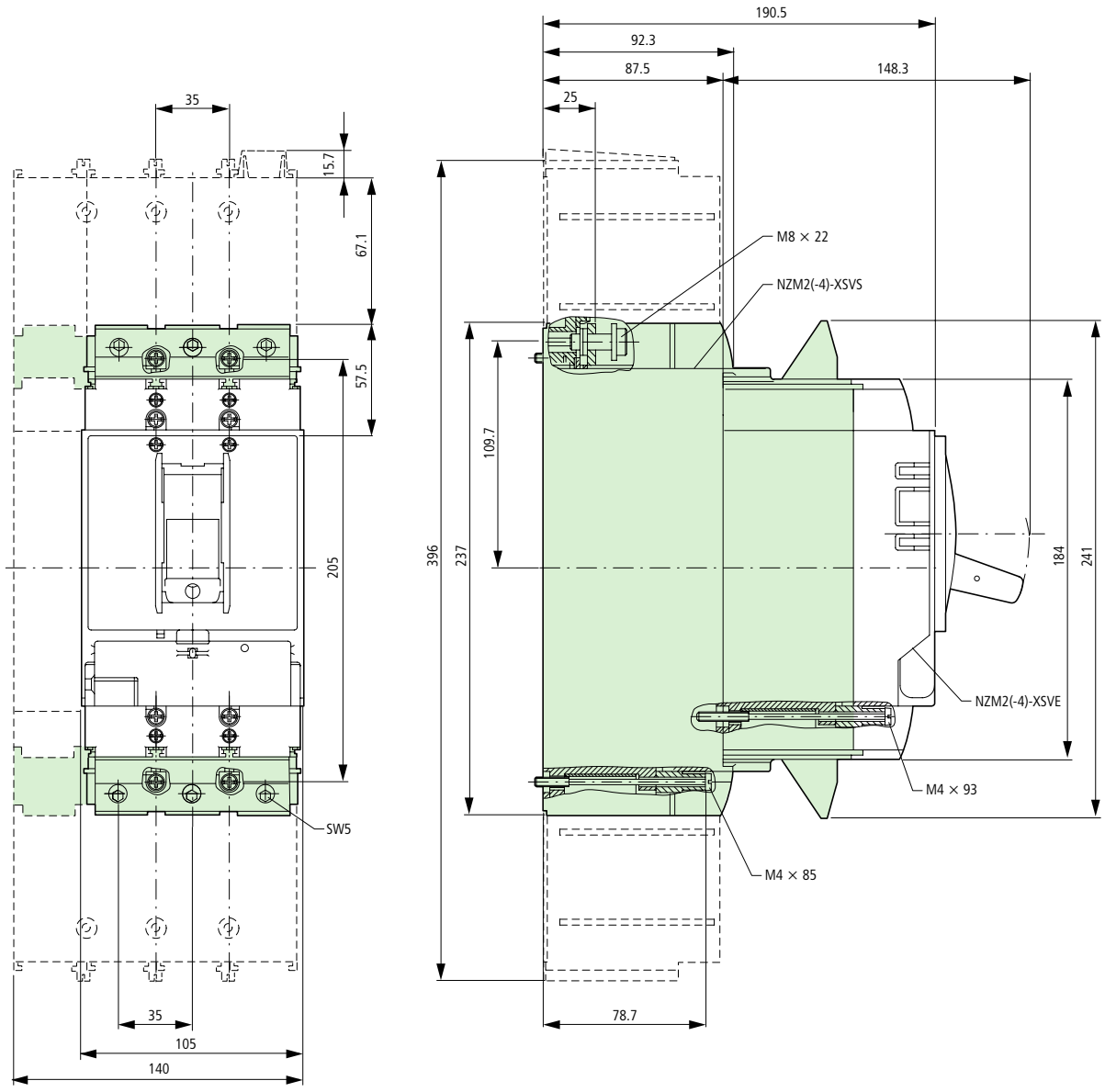


① Special tip

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

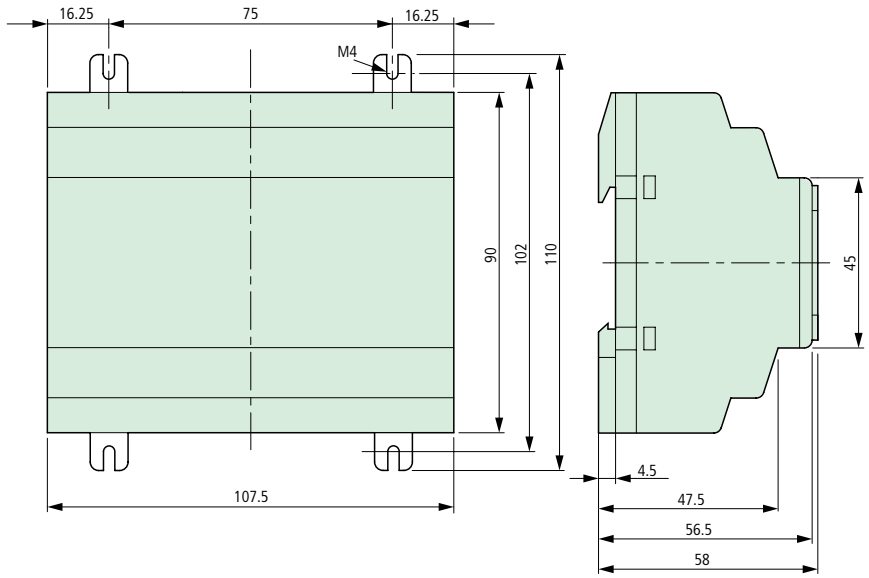
Plug-in adapter elements
+NZM2-XSV



For Immediate Delivery call KMParts.com at (866) 595-9616

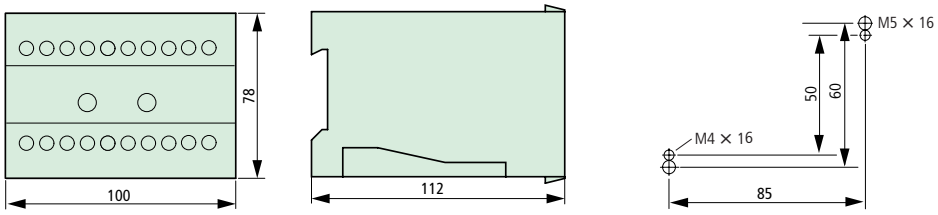
Data Management Interface (DMI Module)

NZM-XDMI612



Undervoltage release, delayed

UVU-NZM

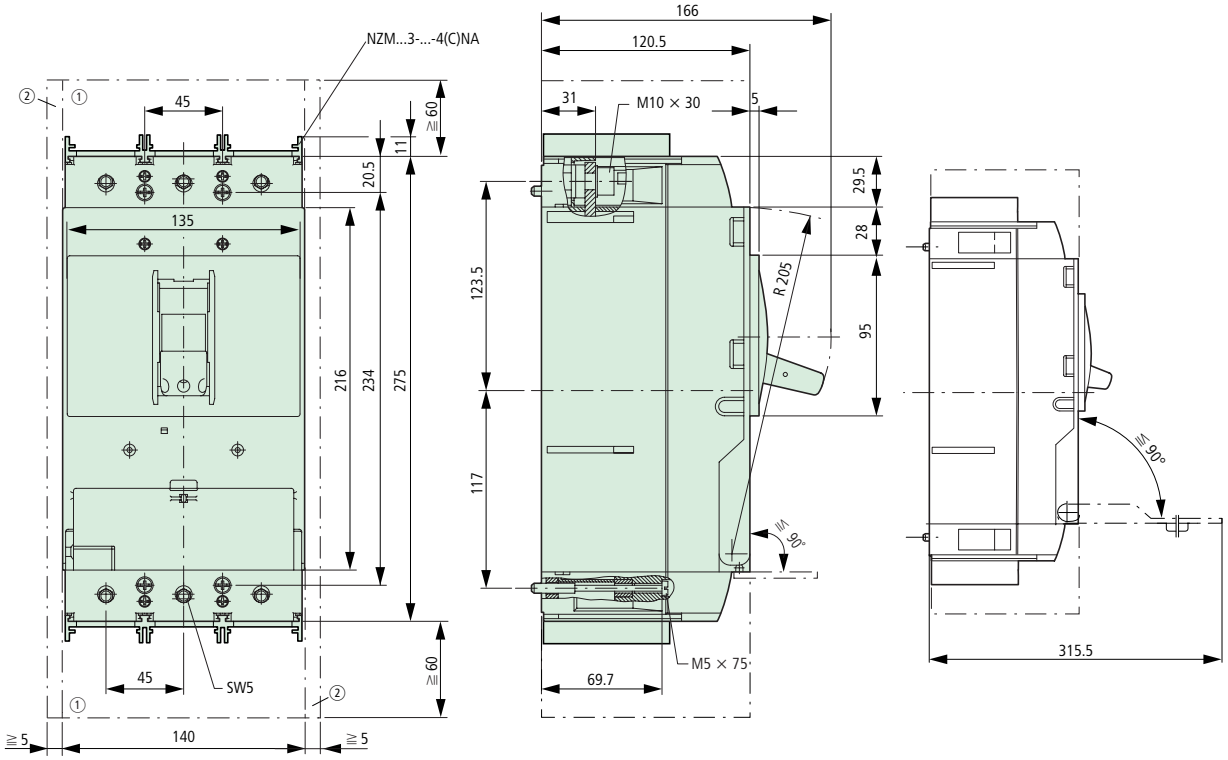


For Immediate Delivery call KMParts.com at (866) 595-9616

For Immediate Delivery call KMParts.com at (866) 595-9616

Circuit-breaker, disconnect switches, 3-pole

NZMN3, NZMH3, N3, NS3



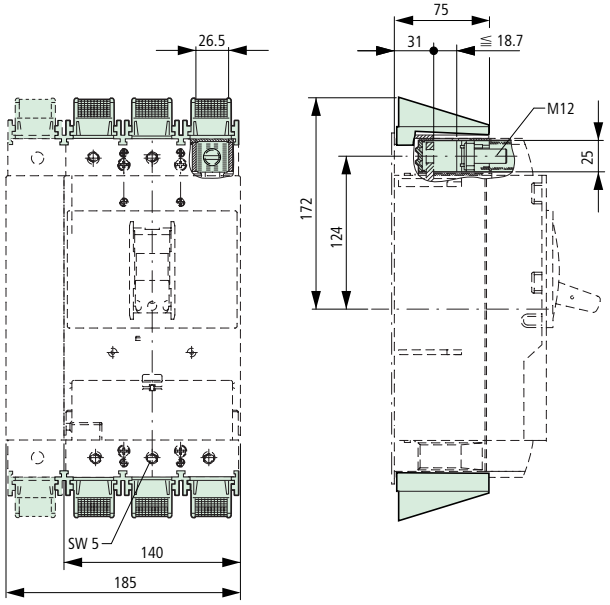
① Blow out area, minimum clearance to other parts≧ 60 mm

② Minimum clearance from adjacent parts ≧ 5 mm

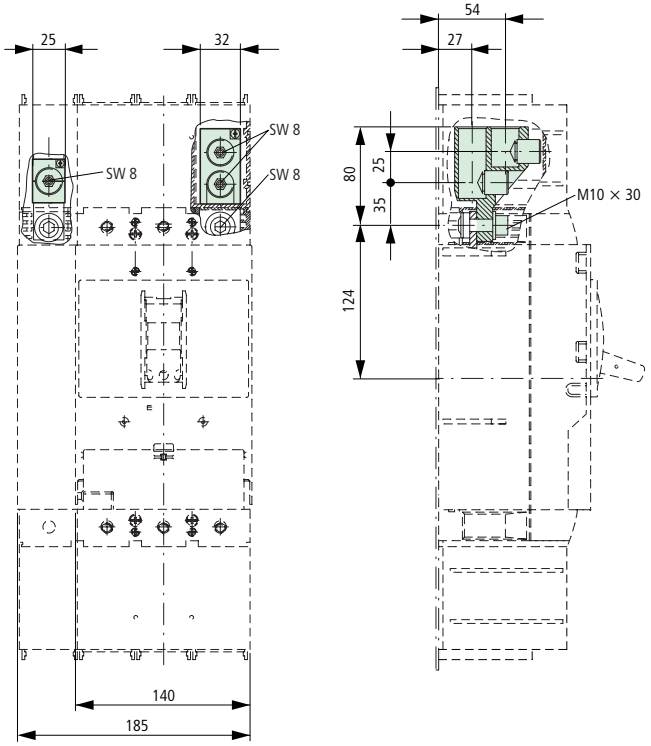
For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

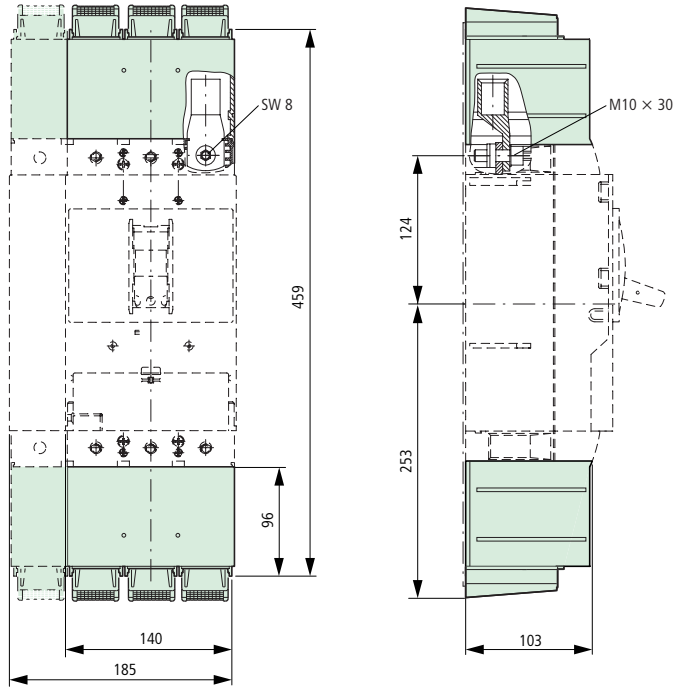
Box terminal
(+)NZM3-XKC(O)(U)
IP2X protection against contact with
NZM3-XIPK



Tunnel terminal
NZM3-XKA1(2)

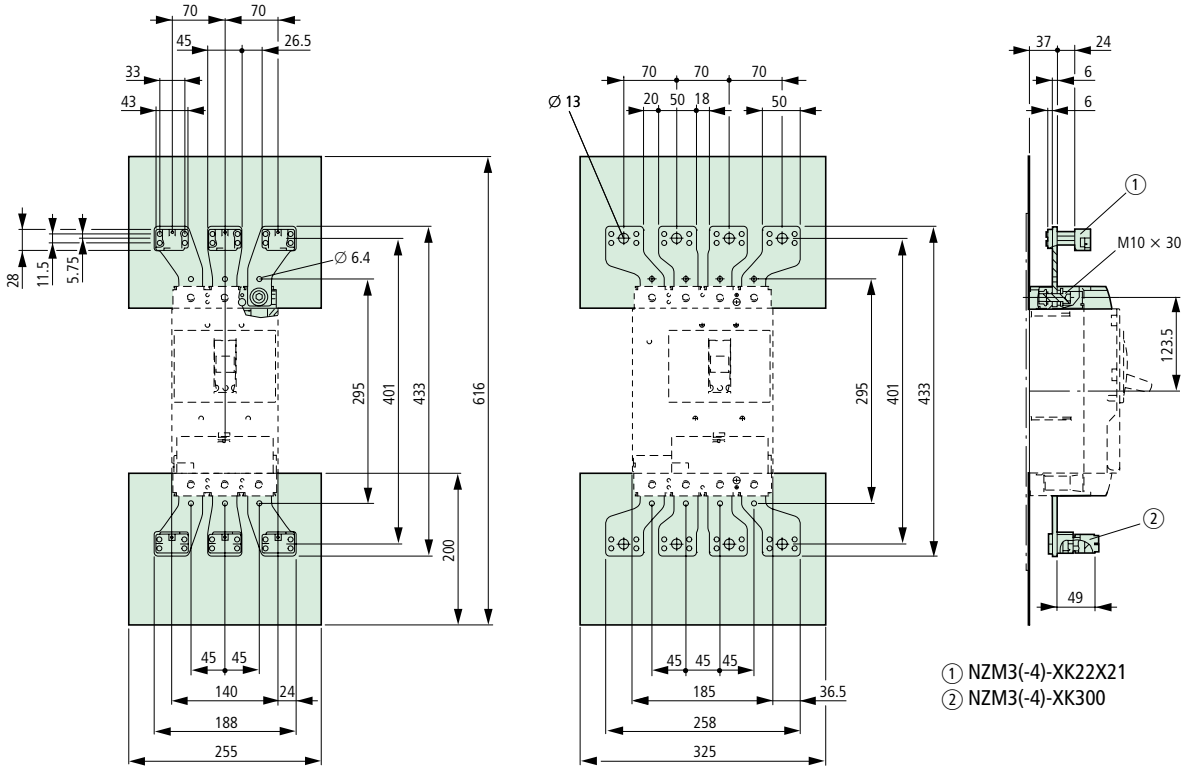


Cover for screw terminals
NZM3-XKSA
Cable lug
NZM3-XKS185
IP2X protection against contact with
NZM3-XIPA



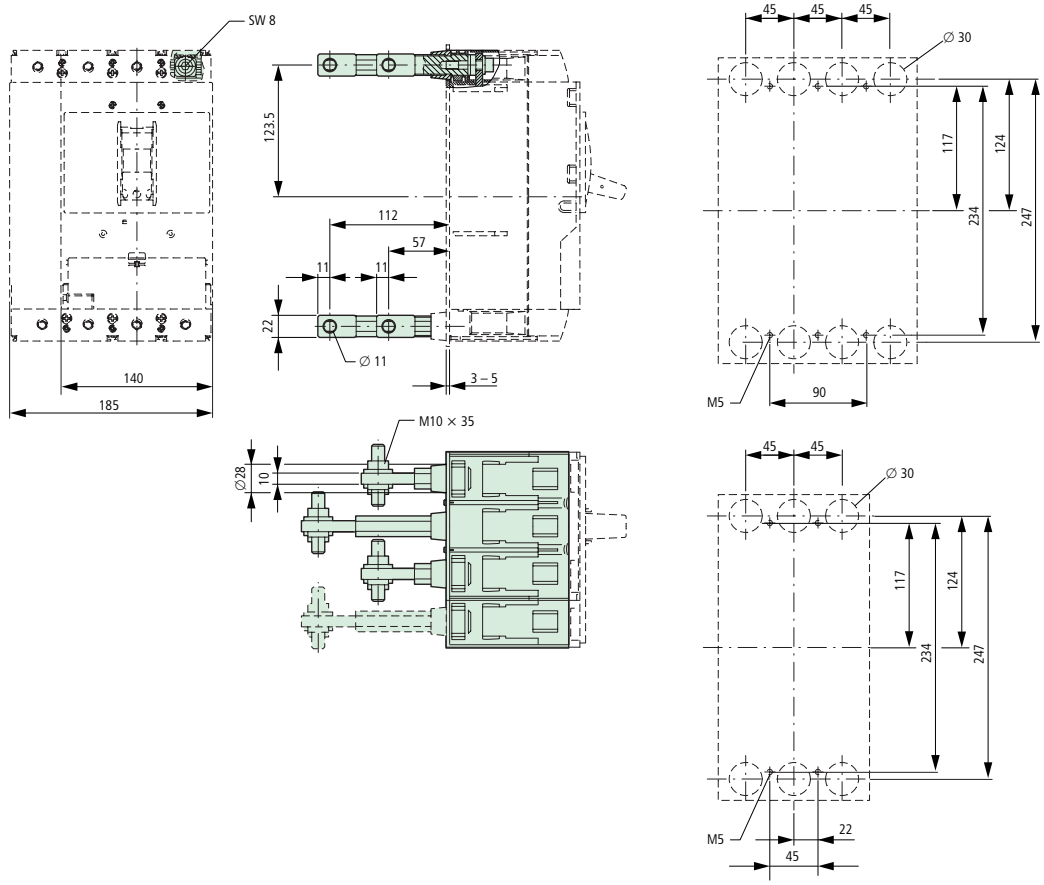
For Immediate Delivery call KMParts.com at (866) 595-9616

Connection width extension
NZM3-XKV70
Terminals
NZM3-XK22X21
NZM3-XK300



Note: Length with phase isolators approx. 599 mm

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

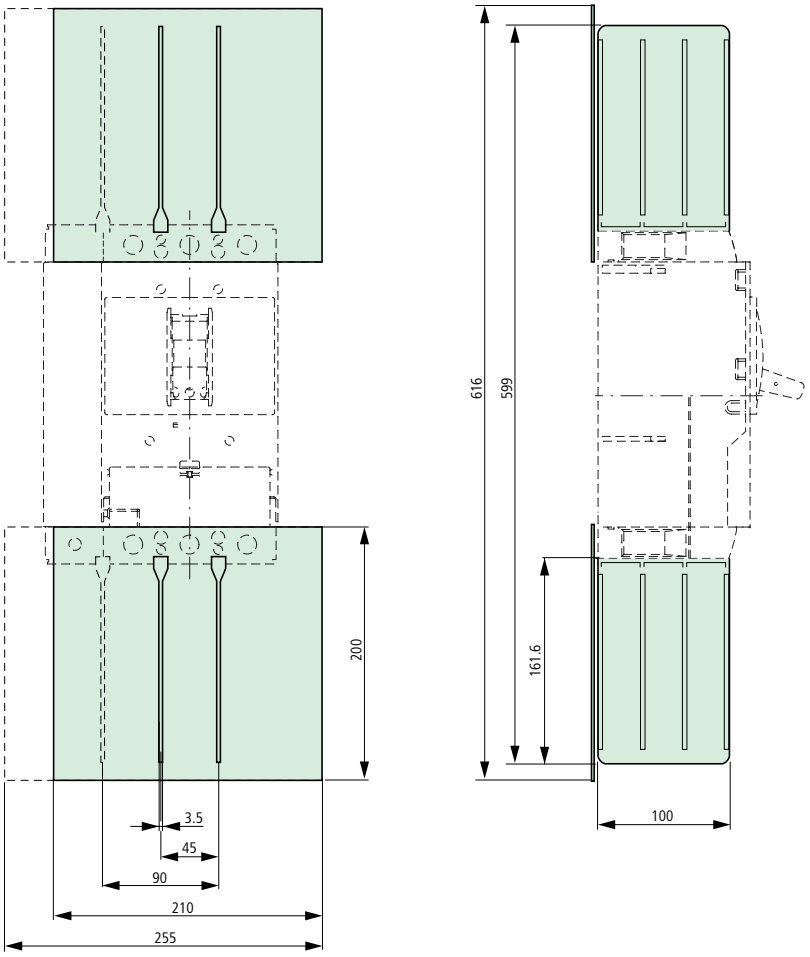


For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

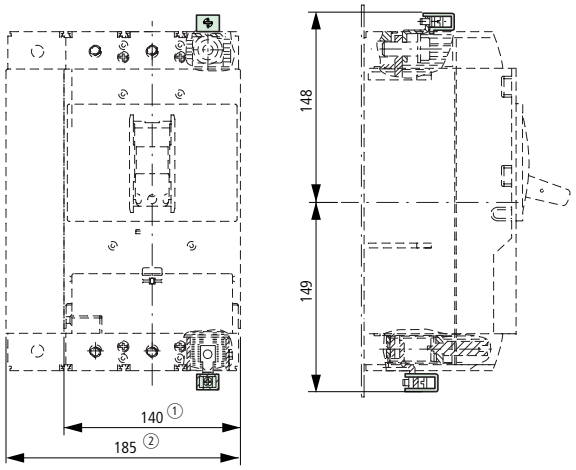
Phase isolator

NZM3-XKP



Control circuit terminal

NZM3/4-XSTS
NZM-XSTK

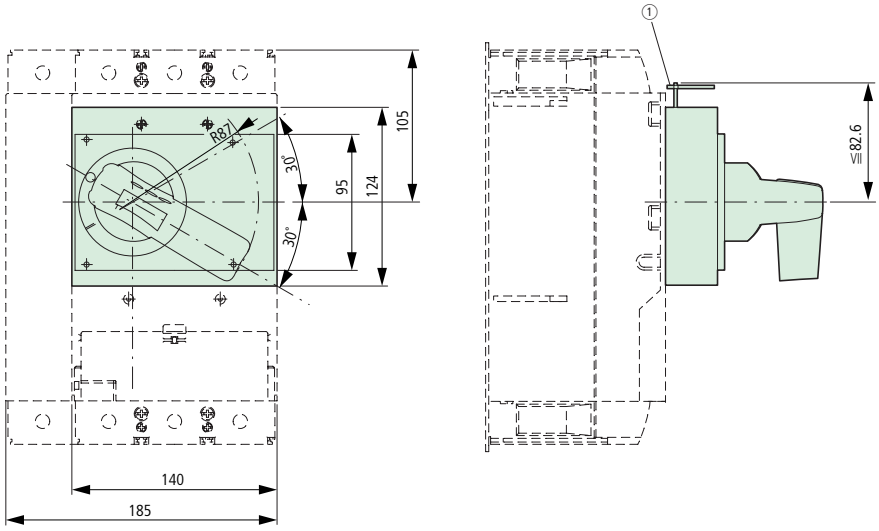


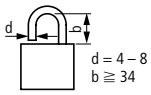
① 3-pole
② 4-pole

For Immediate Delivery call KMParts.com at (866) 595-9616

Rotary handle on circuit-breaker

NZM3-XDV(R)

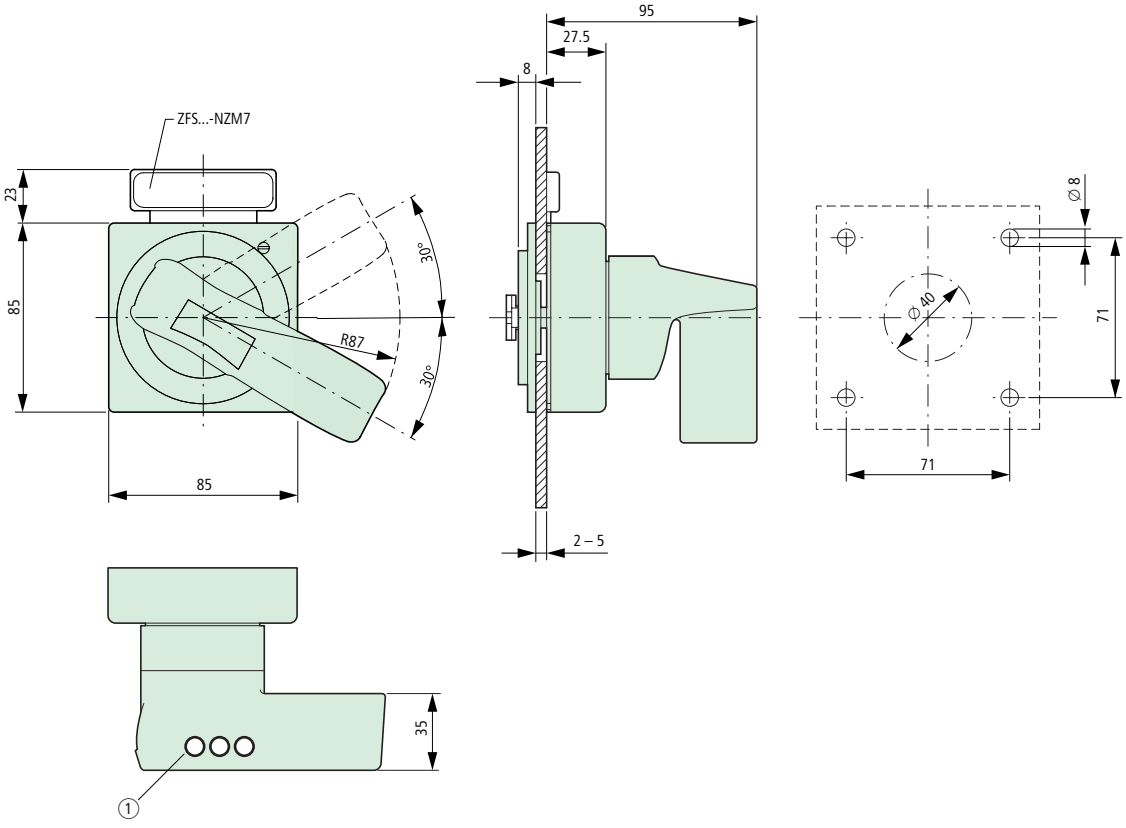


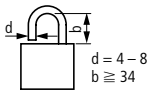


① Up to 3 padlocks

Door coupling rotary handle

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





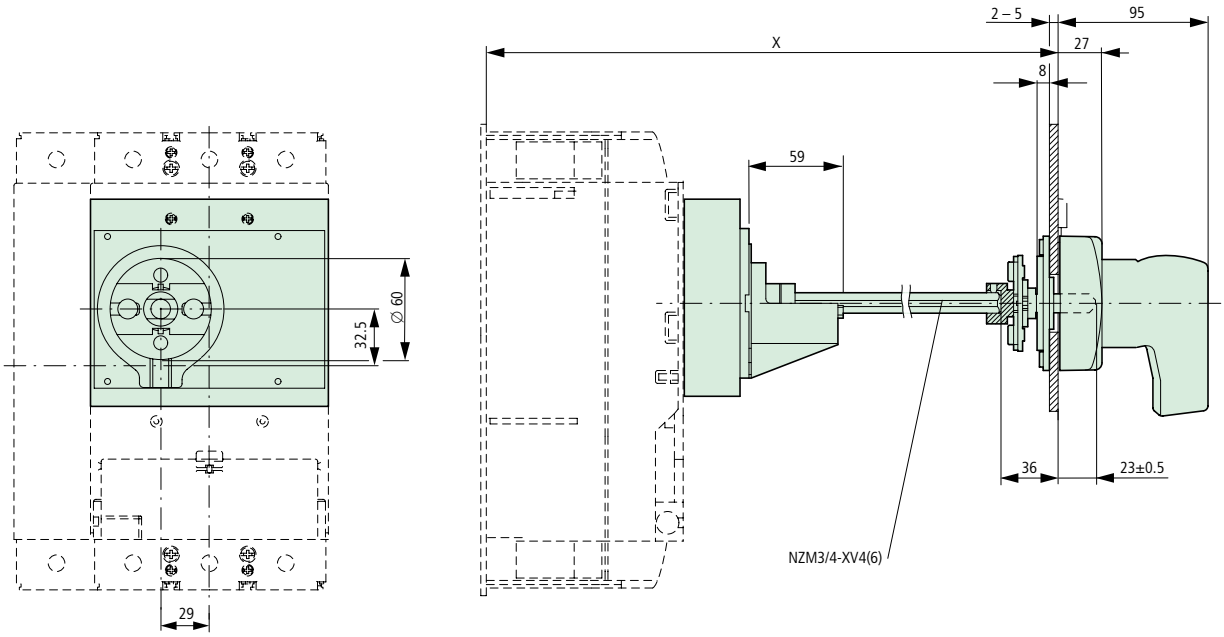
① Up to 3 padlocks

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

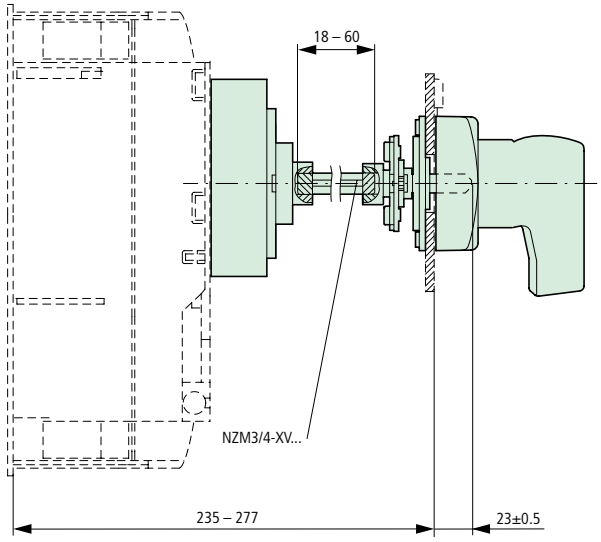
Door coupling rotary handle with extension shaft

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

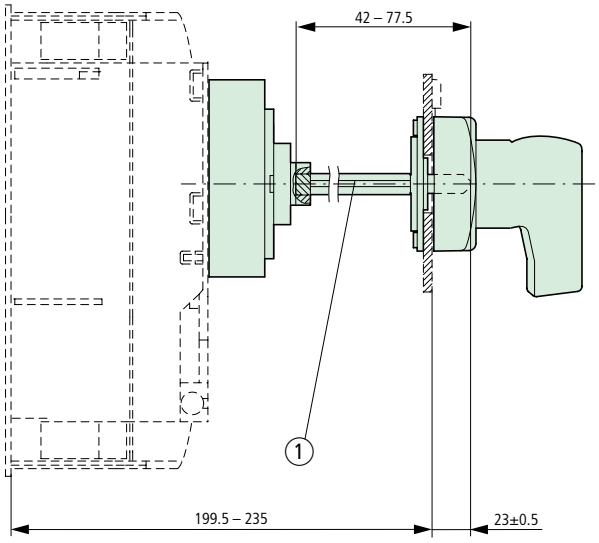


	x
NZM3/4-XV4	270 – 400
NZM3/4-XV6	400 – 600

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

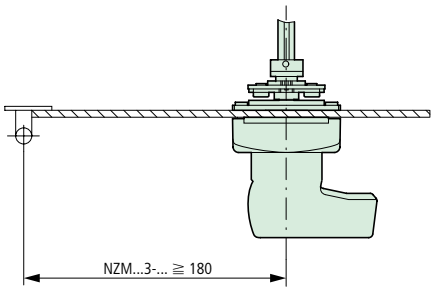


NZM3-XT(V)D(V)(R)-0(-NA)



① Special tip

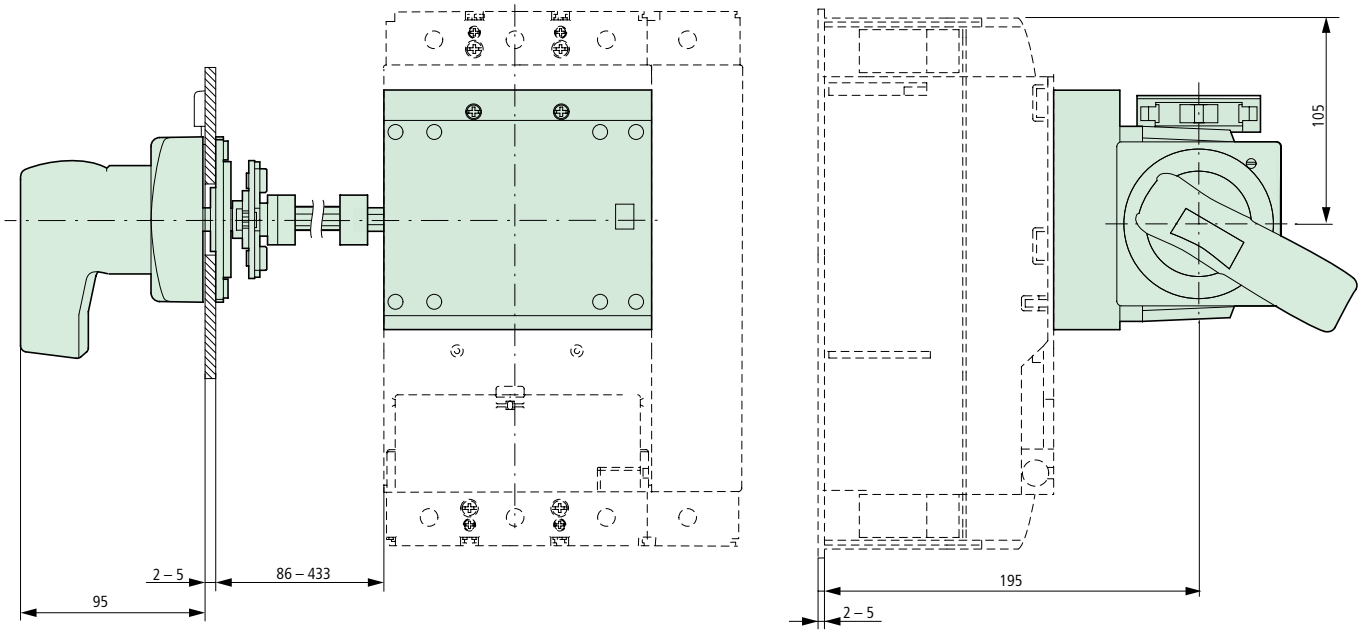
Minimum door coupling rotary handle clearance from door pivot point



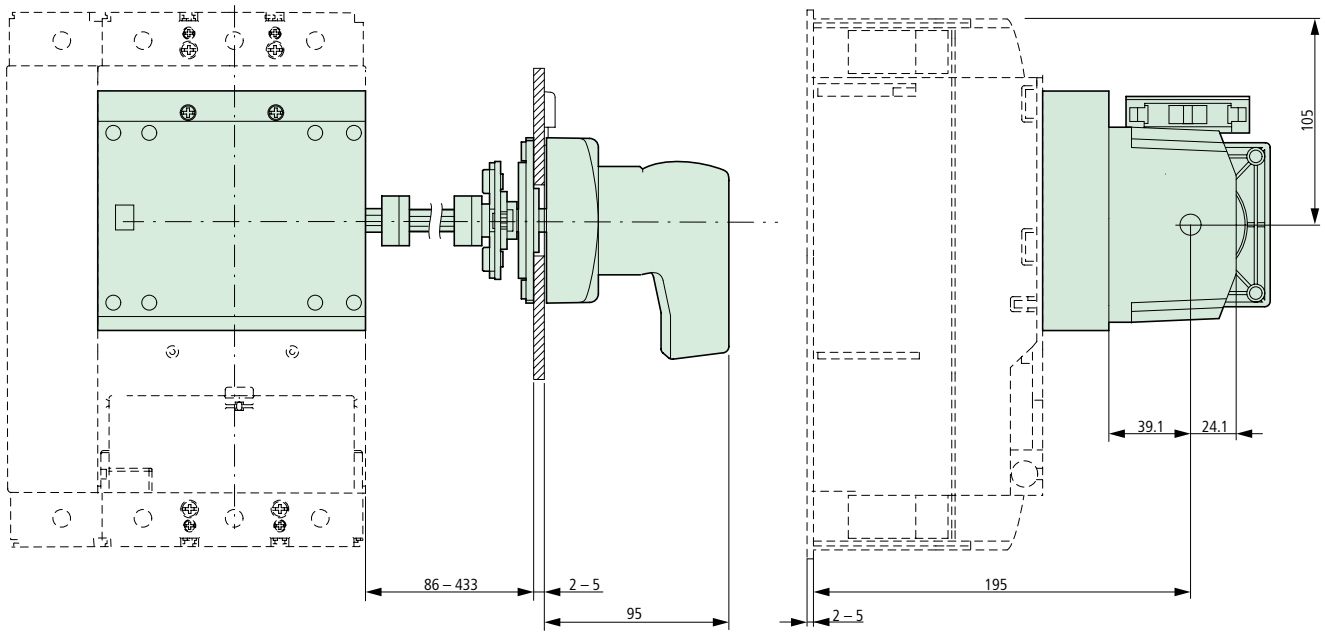
For Immediate Delivery call KMParts.com at (866) 595-9616

Main switch assembly kit for side wall installation

NZM3-XS(R)-L

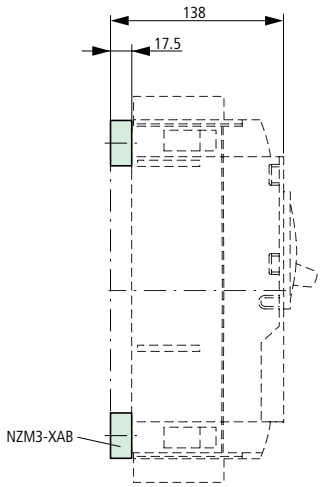


NZM3-XS(R)-R



Spacers

NZM3-XAB

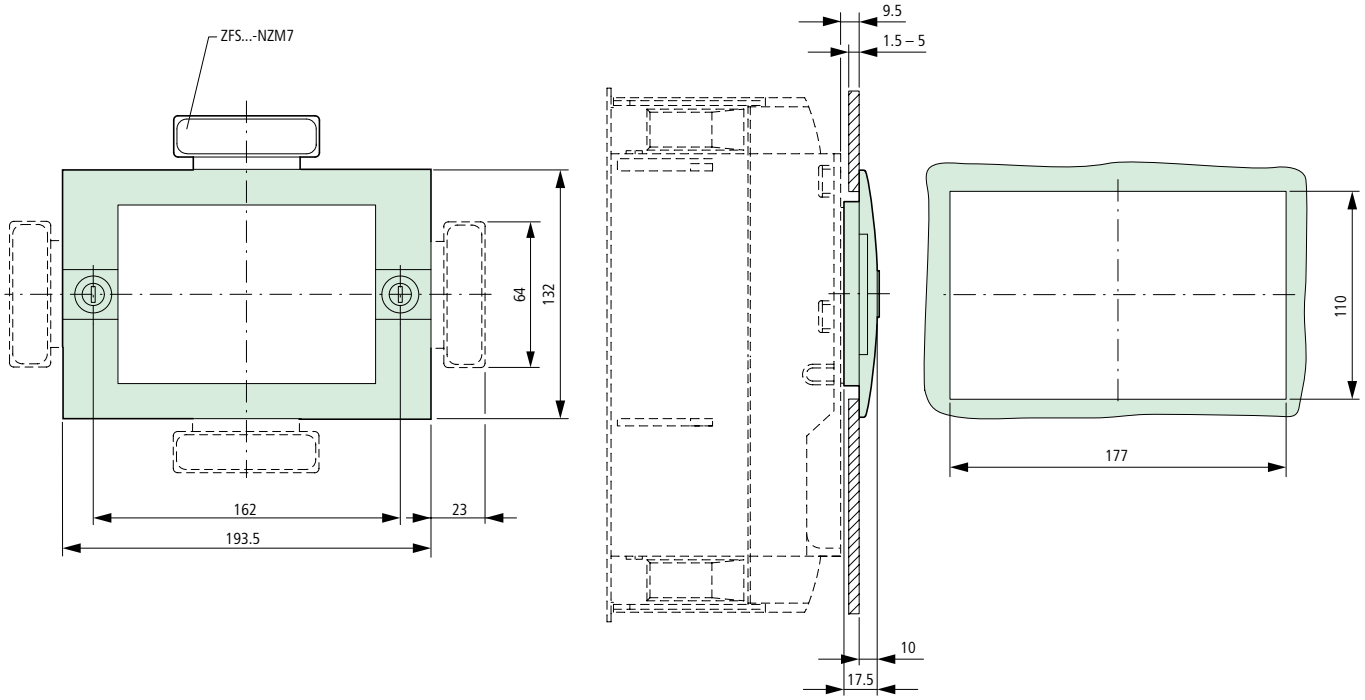


For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

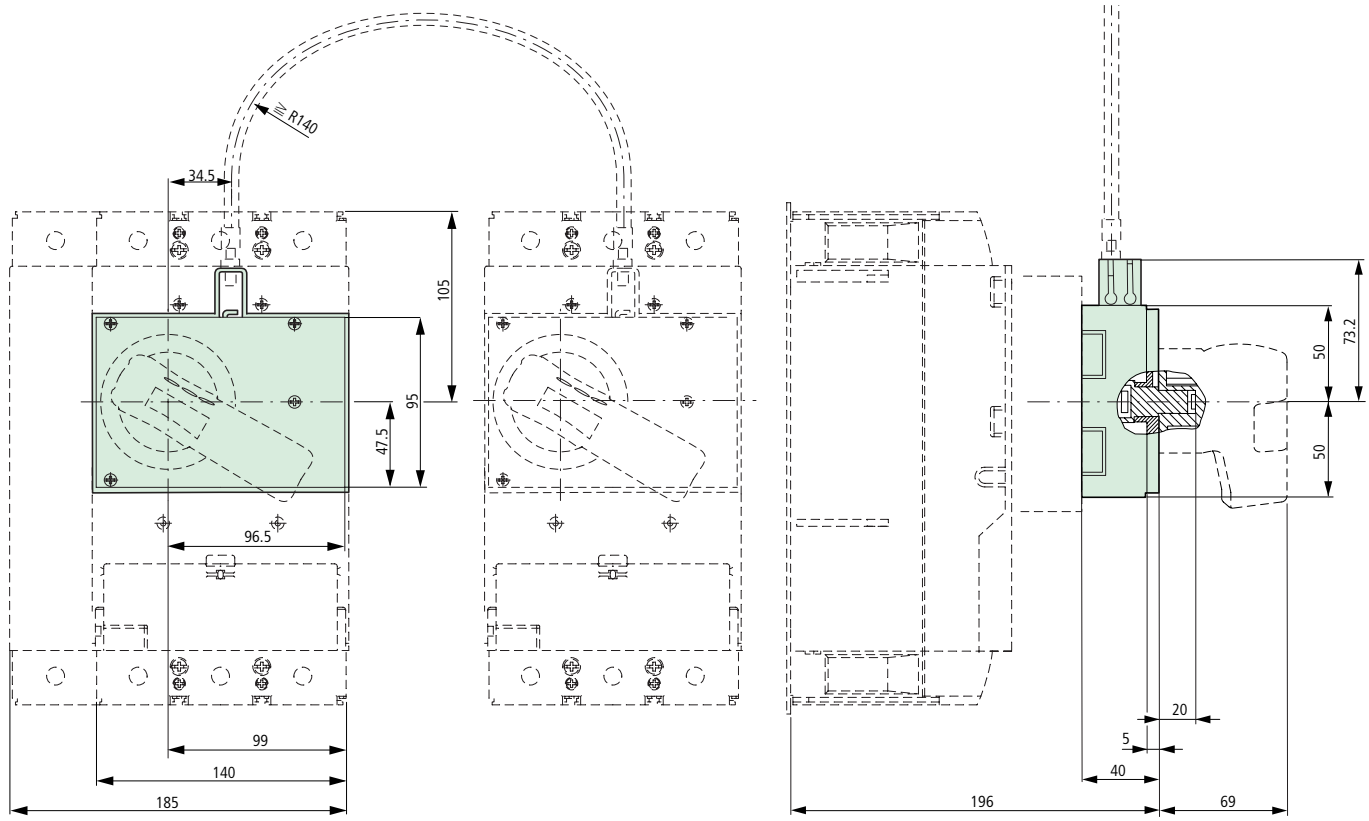
Insulating surround

NZM3-XBR



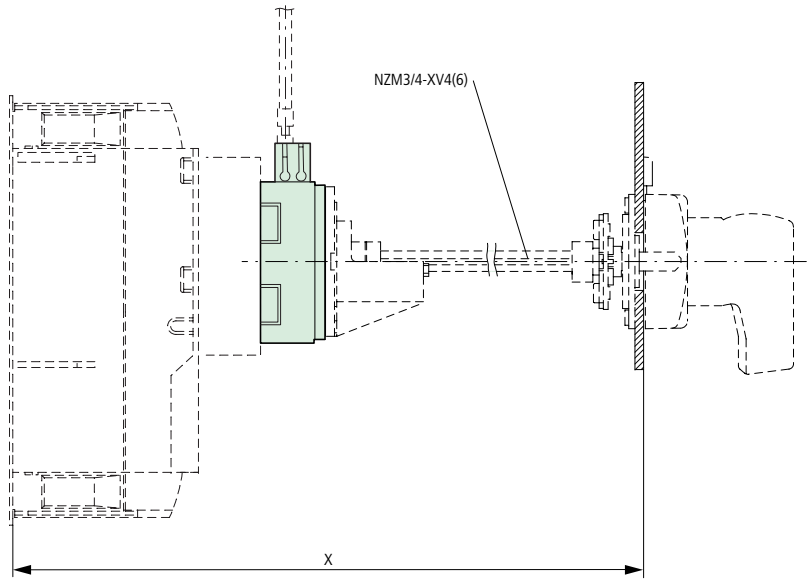
Mechanical interlock

NZM3-XMV with NZM3-XDV(R)



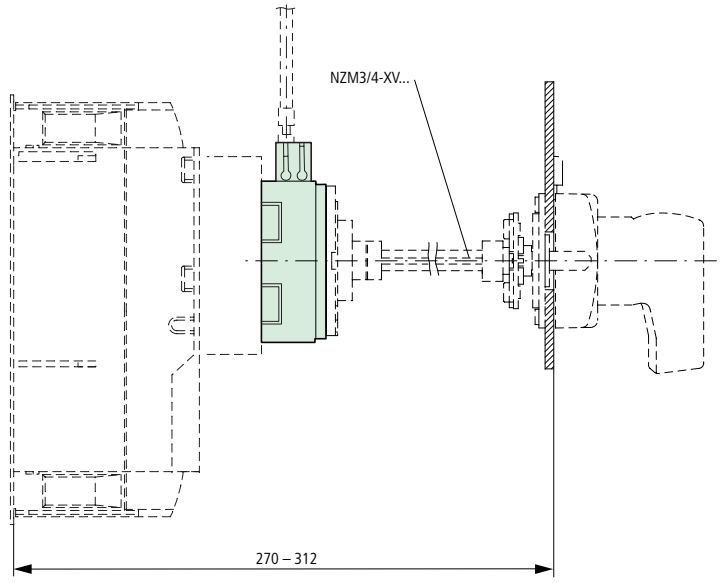
For Immediate Delivery call KMParts.com at (866) 595-9616

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

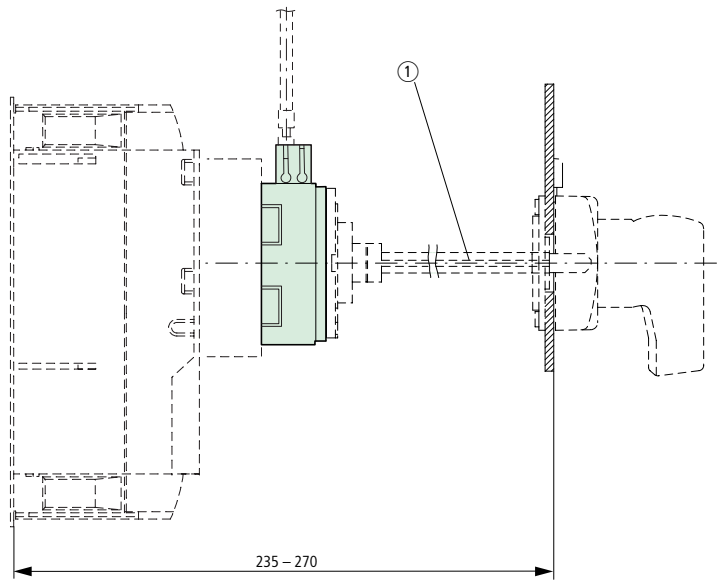


	x
NZM3/4-XV4	305 – 400
NZM3/4-XV6	400 – 600

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



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



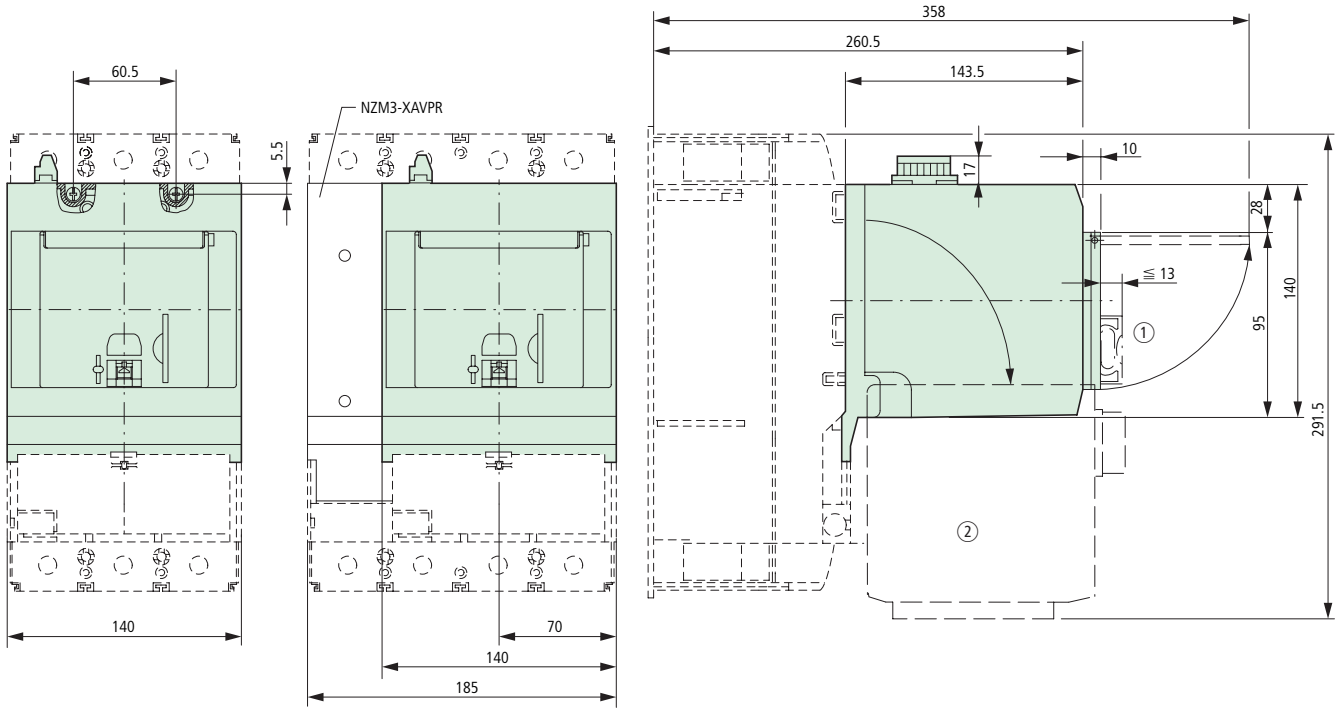
① Special tip

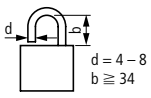
For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

Remote operator

NZM3-XR...

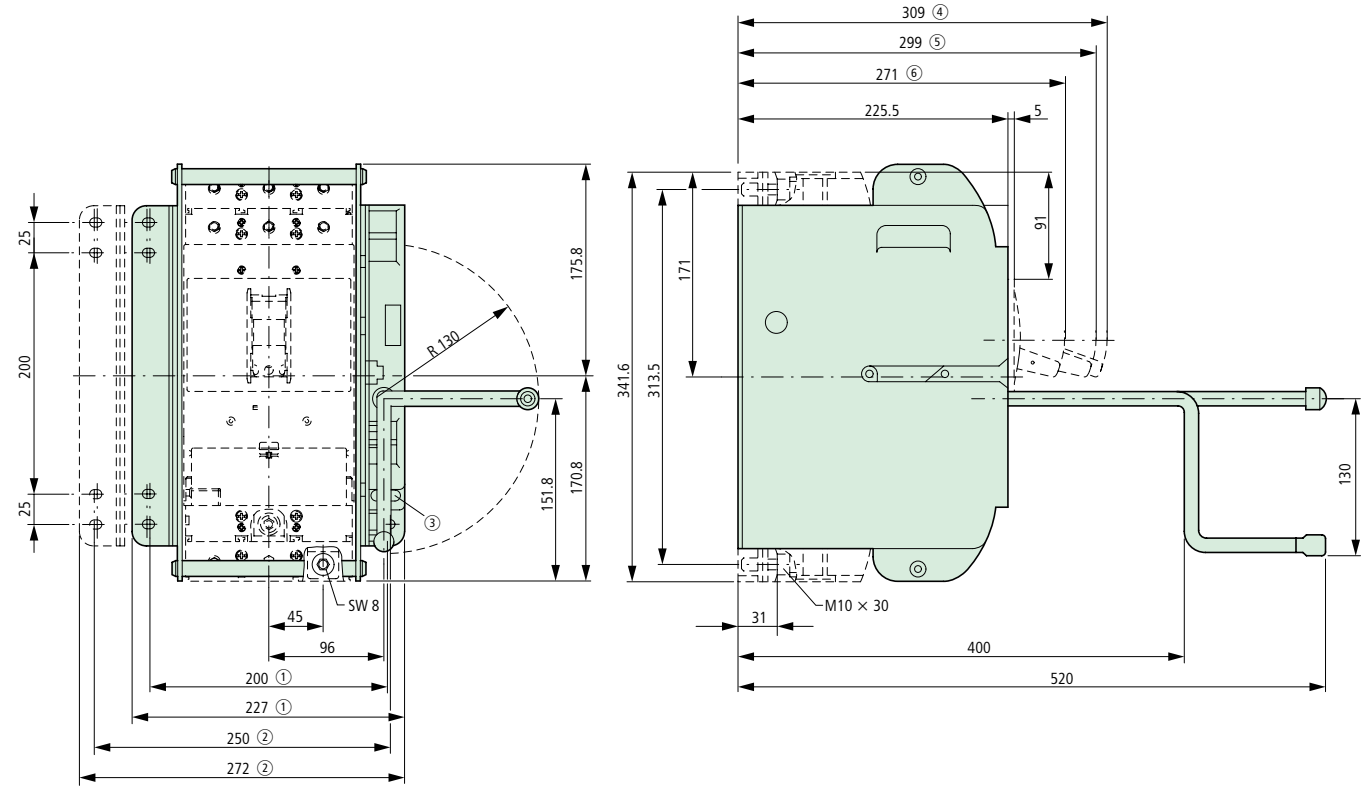




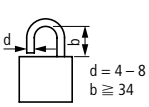
① Up to 3 padlocks
② Remote operator folded

Withdrawable unit

+NZM3-XAV



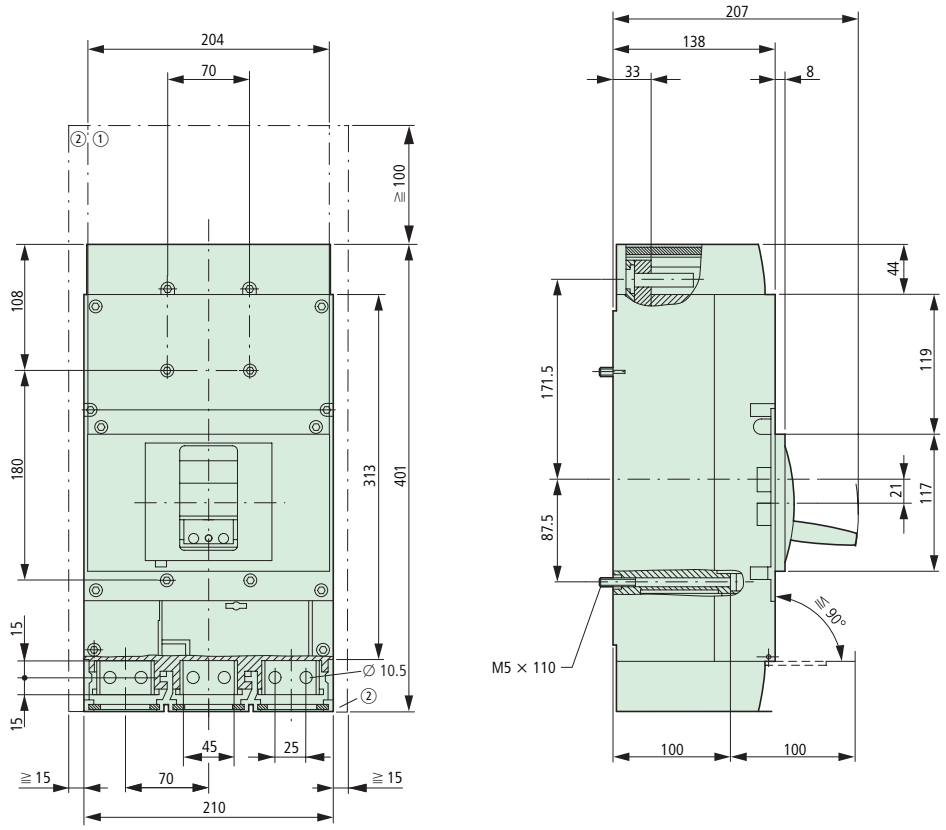
① 3-pole
② 4-pole
③ Up to 3 padlocks



④ disconnected
⑤ test
⑥ connected

For Immediate Delivery call KMParts.com at (866) 595-9616

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



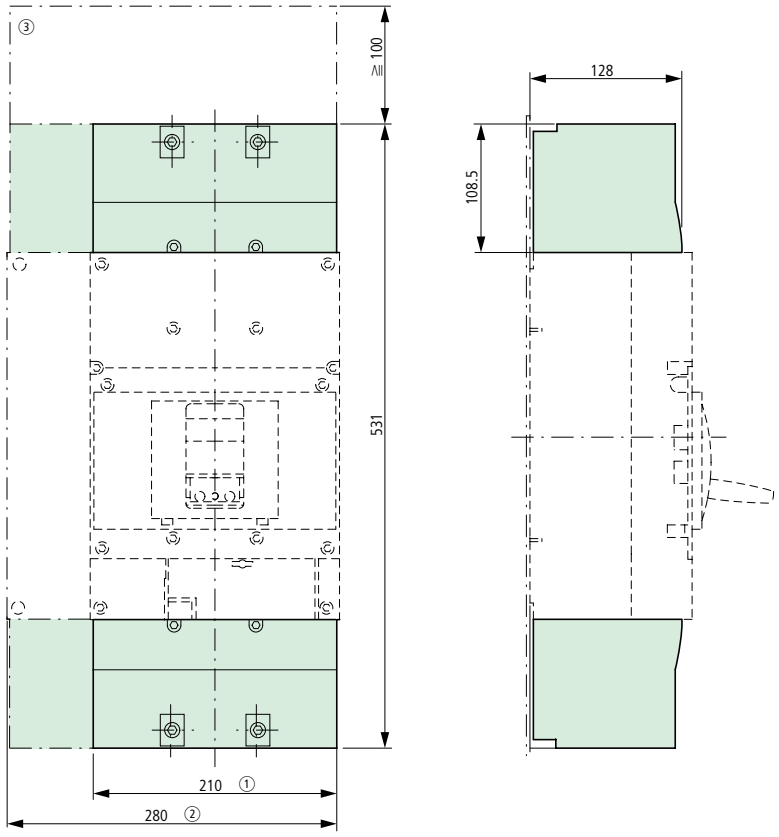
① Blow out area, minimum clearance to other parts ≧ 100 mm up to 690 V; ≧ 200 mm up to 1000 V
② Minimum clearance from adjacent parts ≧ 15 mm

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

Cover

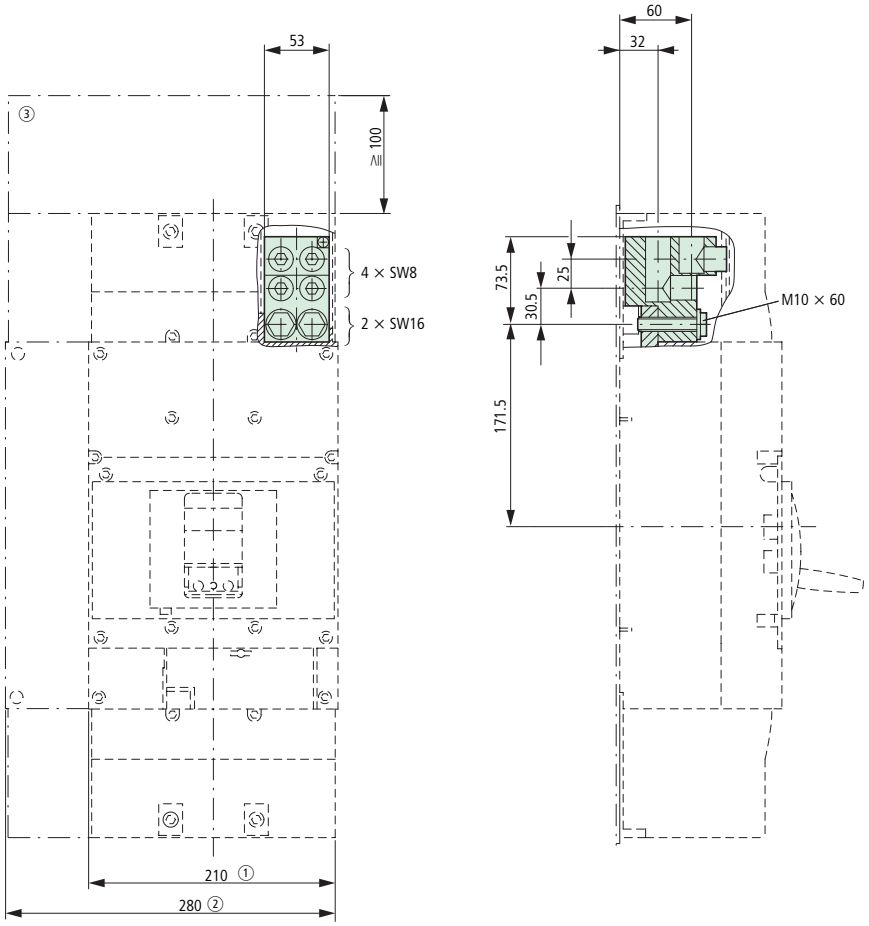
NZM4-XKSA



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-XKA



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

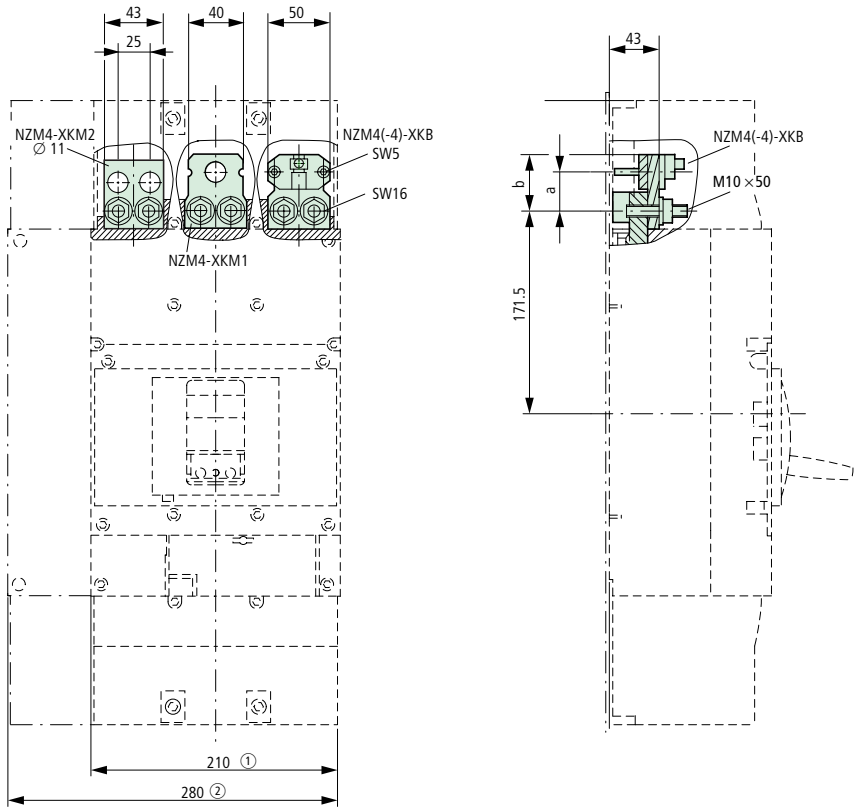
For Immediate Delivery call KMParts.com at (866) 595-9616

Screw connection

Module plate 1-hole
NZM4-XKM1

Module plate 2-hole
NZM4-XKM2

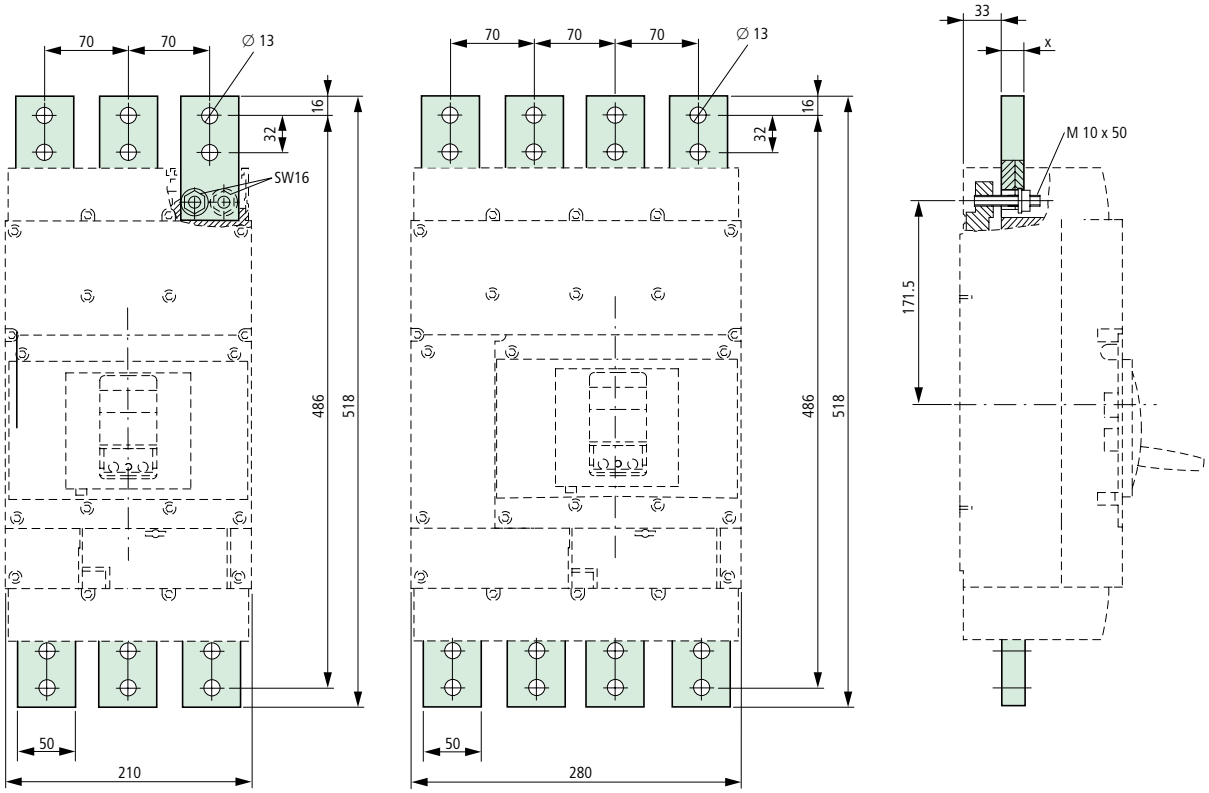
Flat cable terminal
NZM4-XKB



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

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

Module plate 2-hole vertical
NZM4-XKM2S



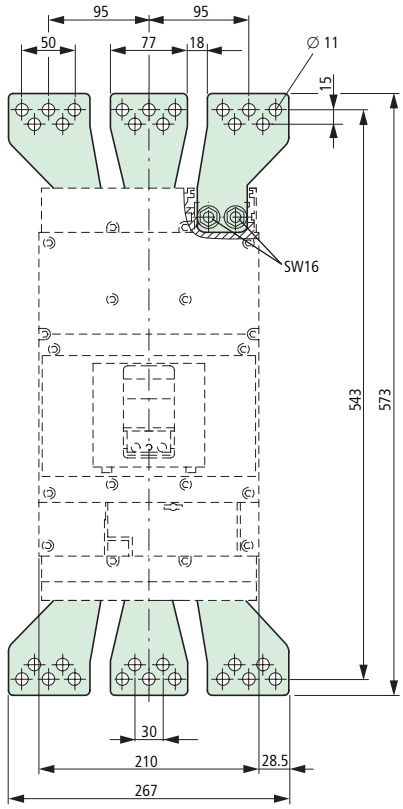
	x
NZM4-XKM2S-1250	12
NZM4-XKM2S-1600	20

For Immediate Delivery call KMParts.com at (866) 595-9616

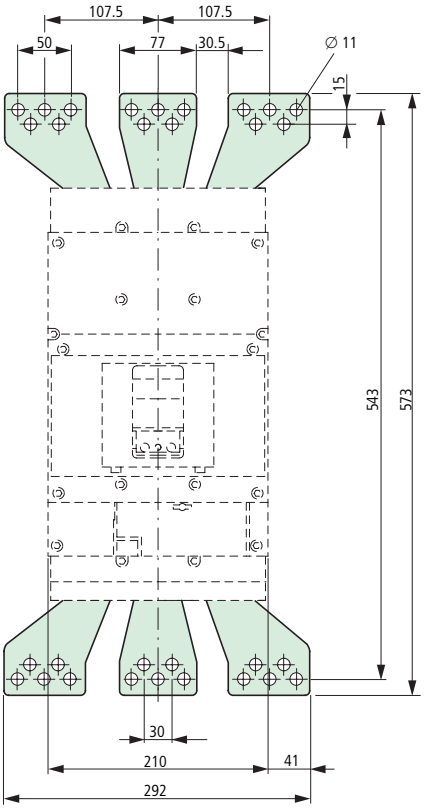
Moeller SK1230-1157EN-NA

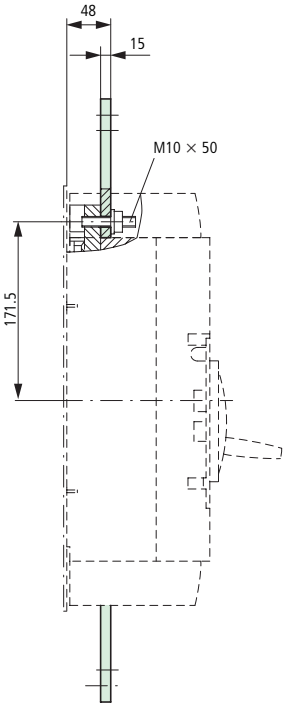
Connection width extension

NZM4-XKV95

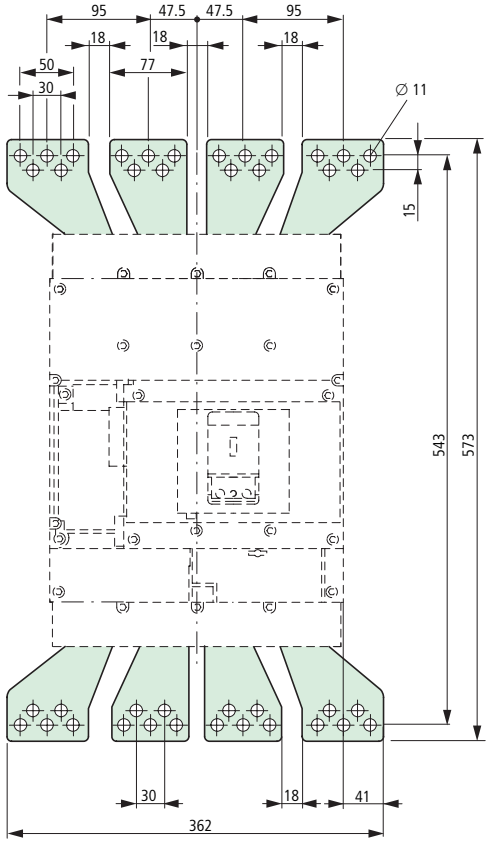


NZM4-XKV110

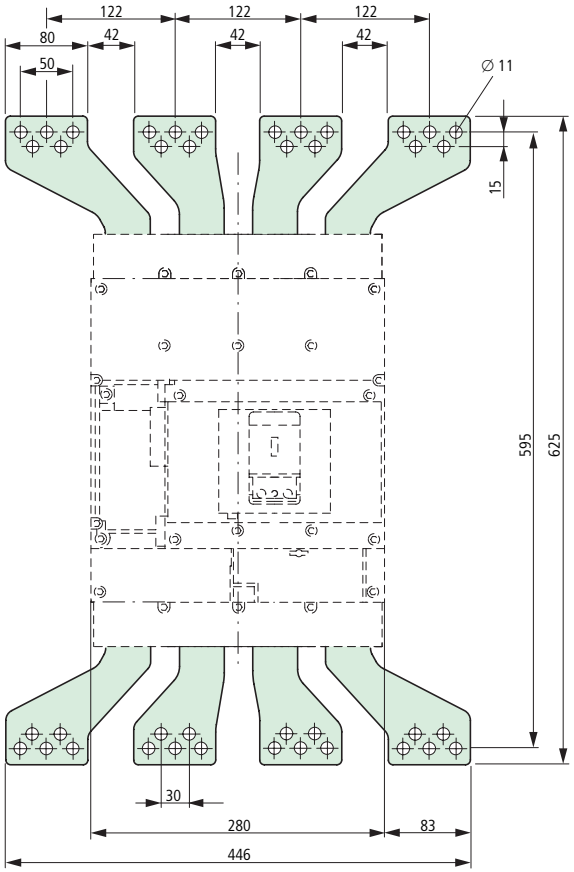


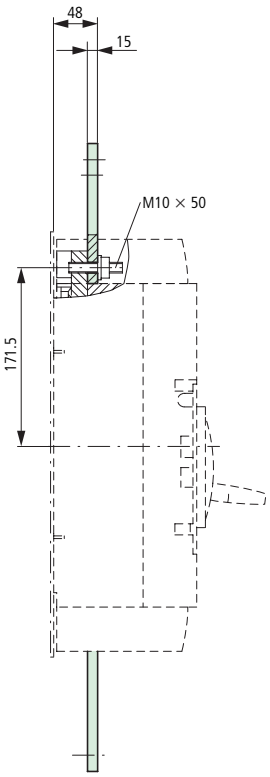


NZM4-4-XKV95



NZM4-4-XKV120

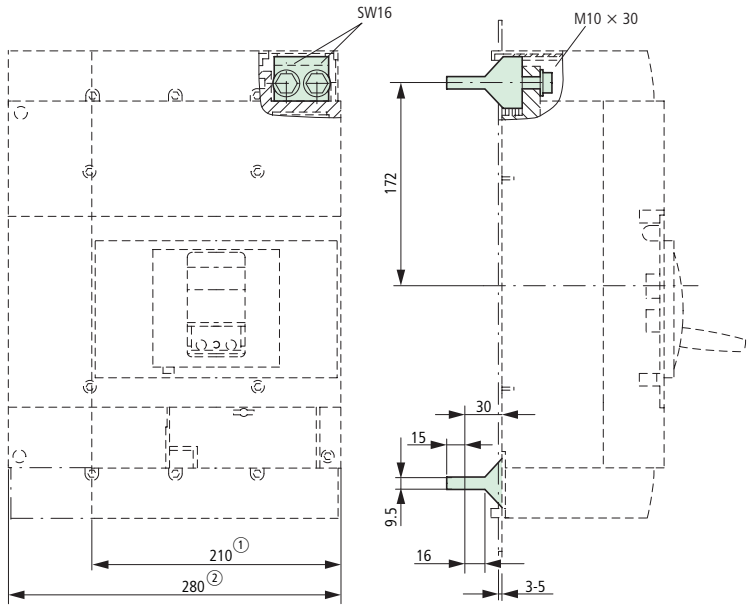




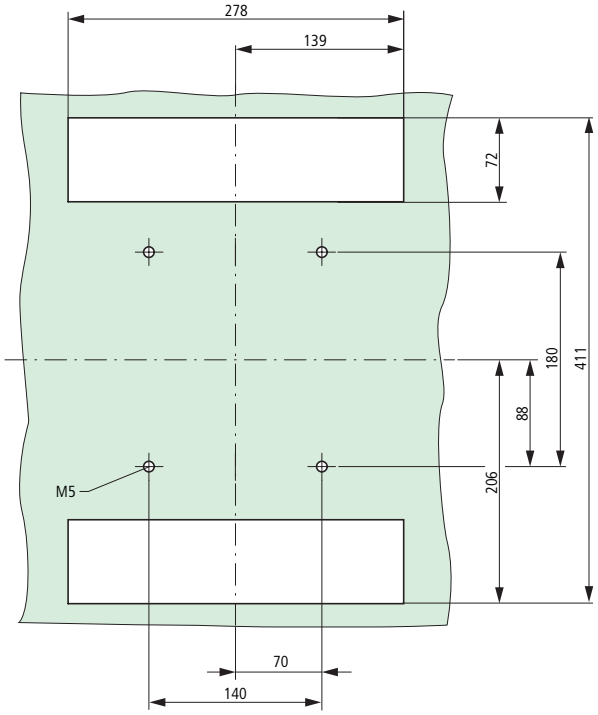
For Immediate Delivery call KMParts.com at (866) 595-9616

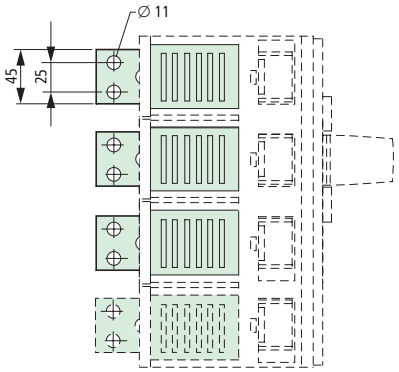
Connection on rear

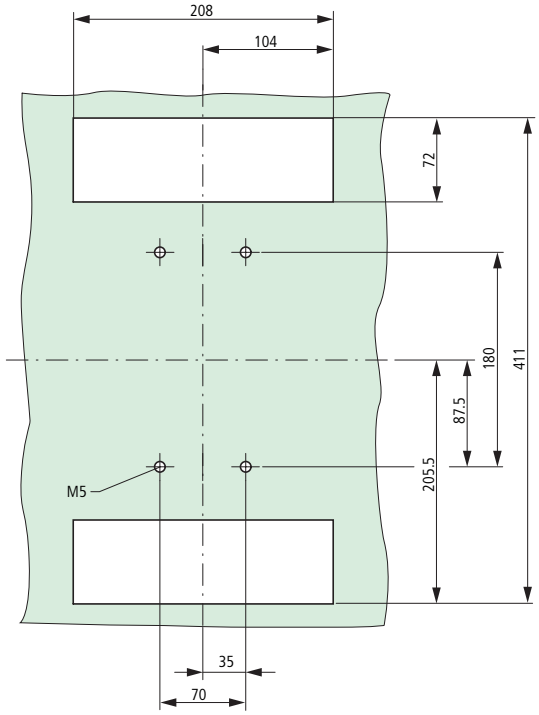
NZM4-XKR



Fitting on mounting plate







Rear connection possible also with rotation by 90°.

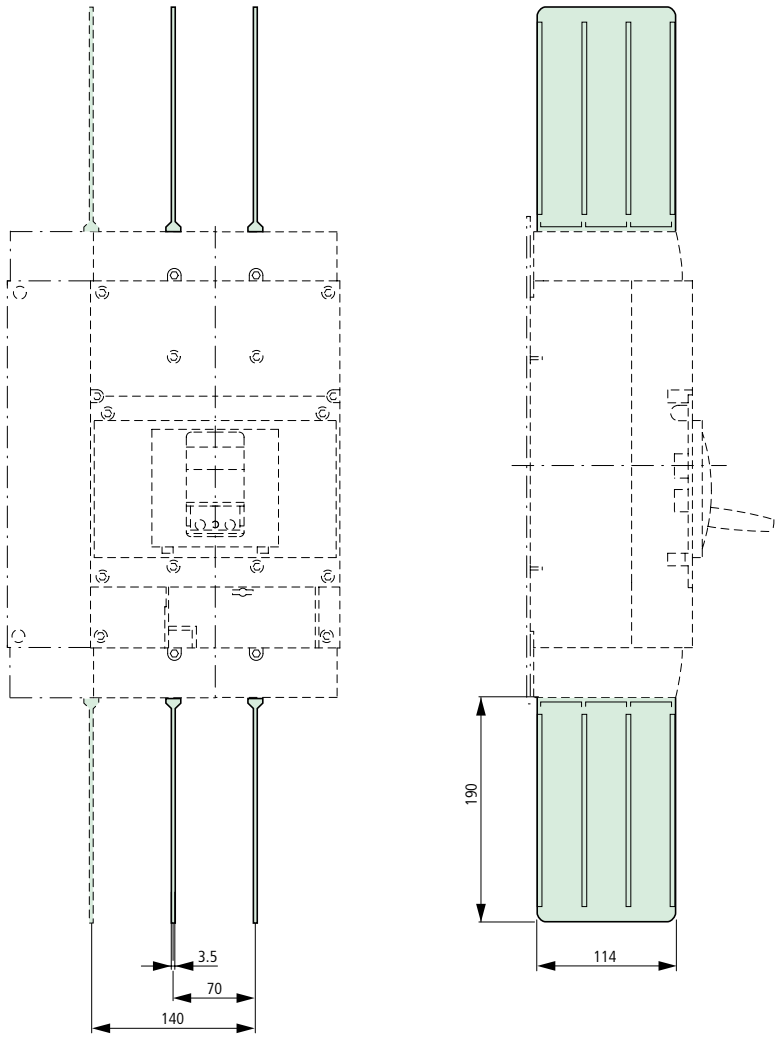
① 3-pole
② 4-pole

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

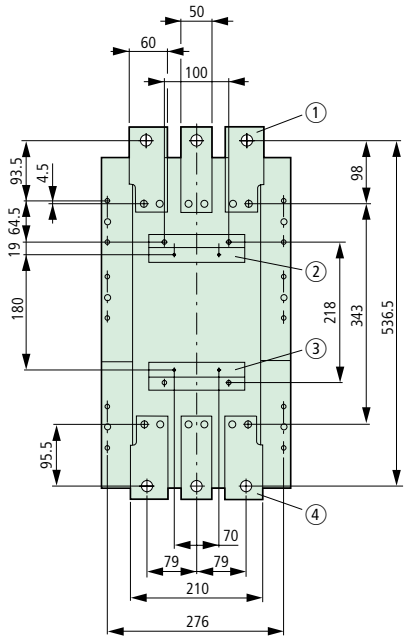
Phase isolator

NZM4-XKP



For Immediate Delivery call KMParts.com at (866) 595-9616

Drilling template NZM12-1000 (1250) conversion to NZM4



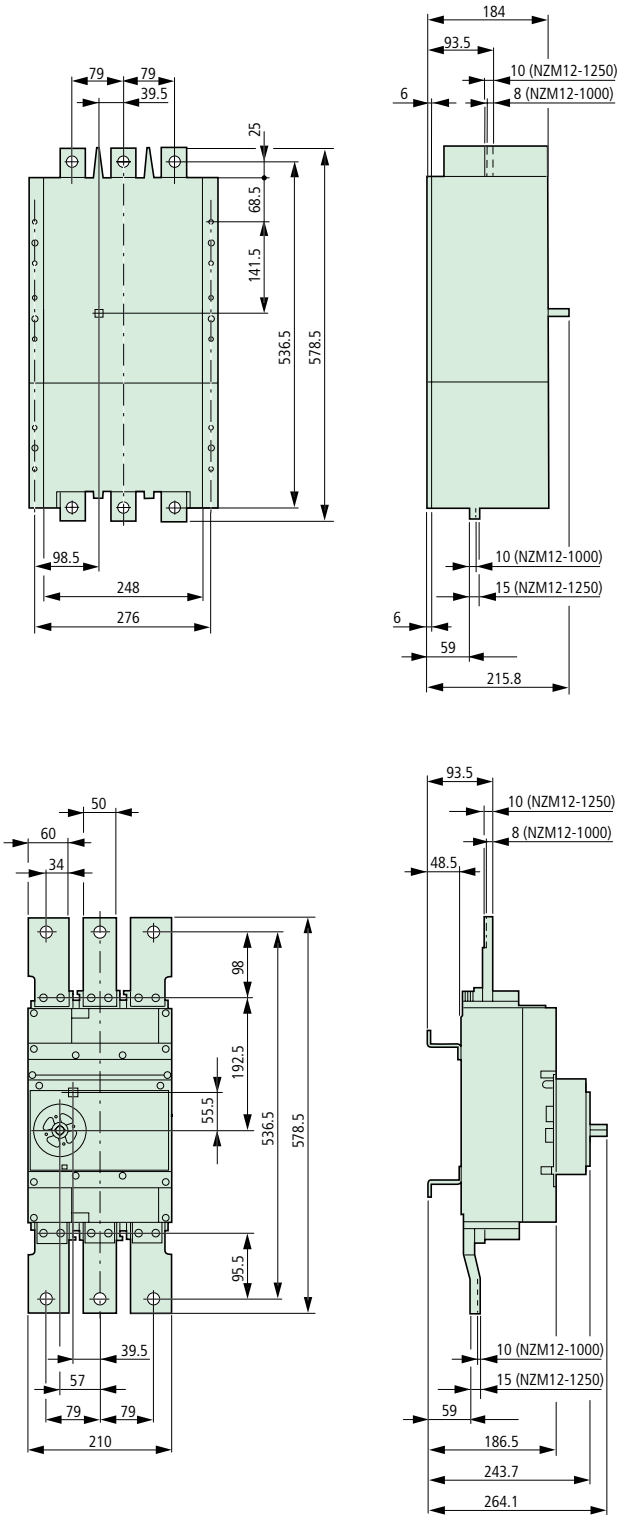
① Module plate NZM4-XAS12-1000(1250)
② Drilling dimensions for mounting bracket NZM4-XAS12(M5)
③ Mounting bracket NZM4-XAS12
④ DIN rail NZM12

For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

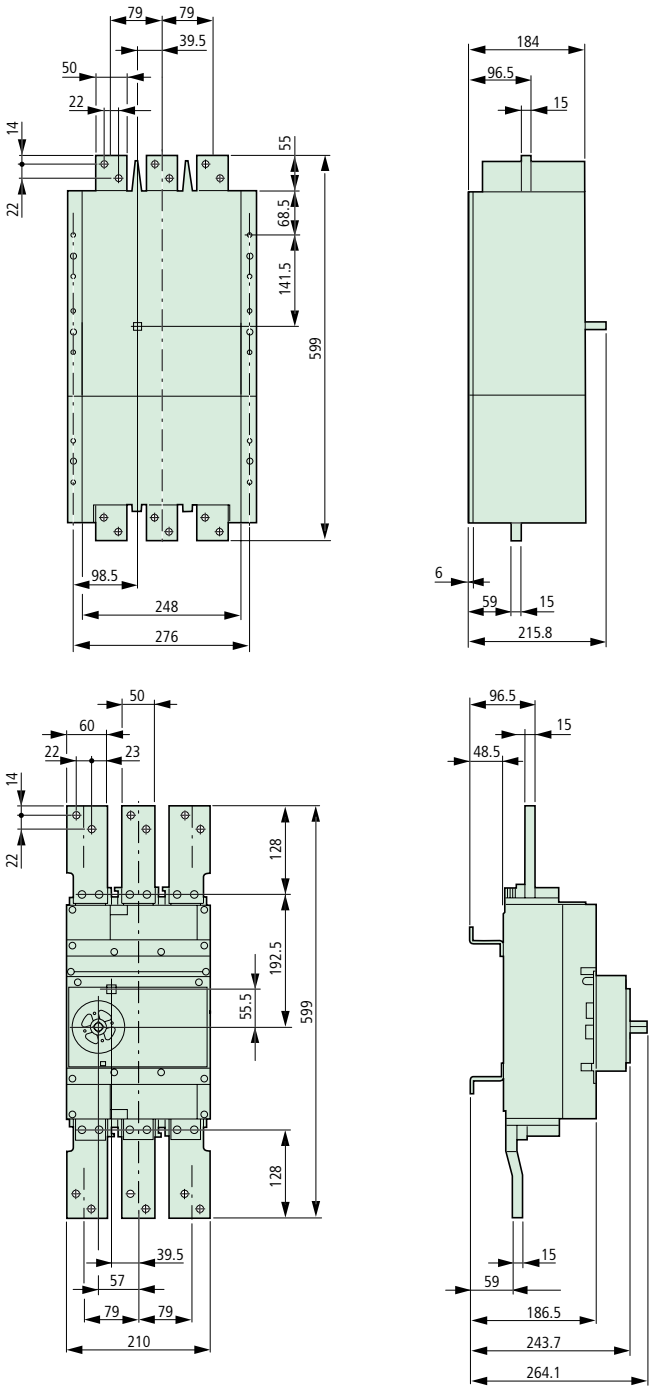
Exchange of NZM12-1000(1250) by NZM4 with module plate, fixed mounted on mounting plate

NZM4-XAS12-1000(1250)



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

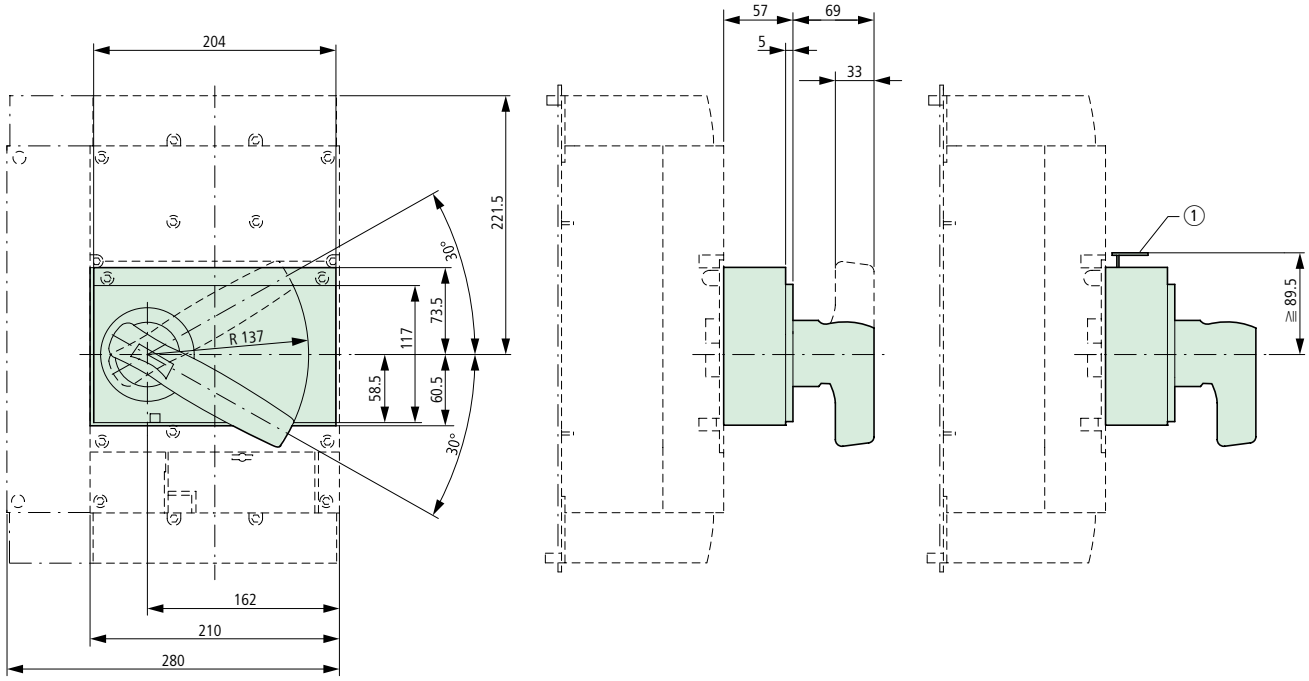
NZM4-XAS12-1600

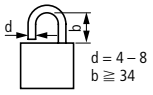


For Immediate Delivery call KMParts.com at (866) 595-9616

Rotary handle on circuit-breaker

NZM4-XDV(R)

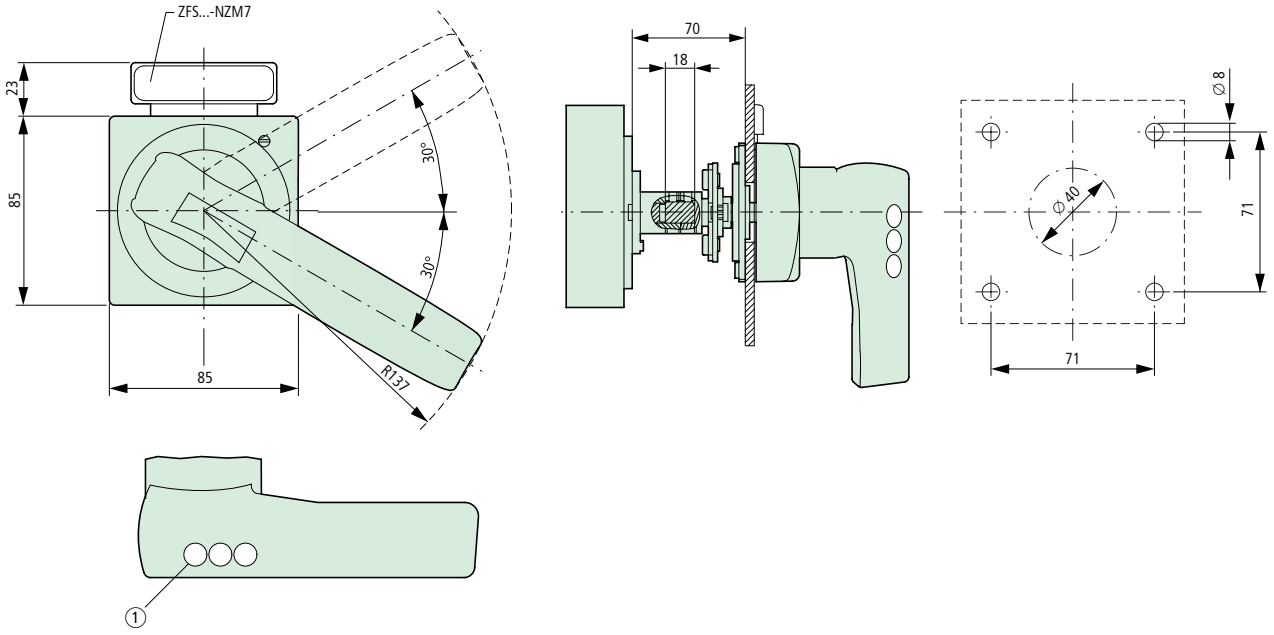


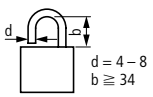


① Up to 3 padlocks

Door coupling rotary handle

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





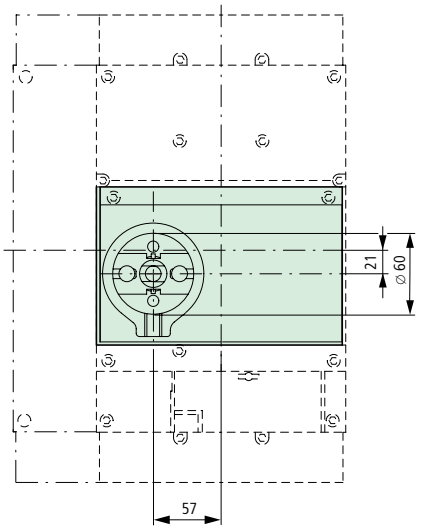
① Up to 3 padlocks

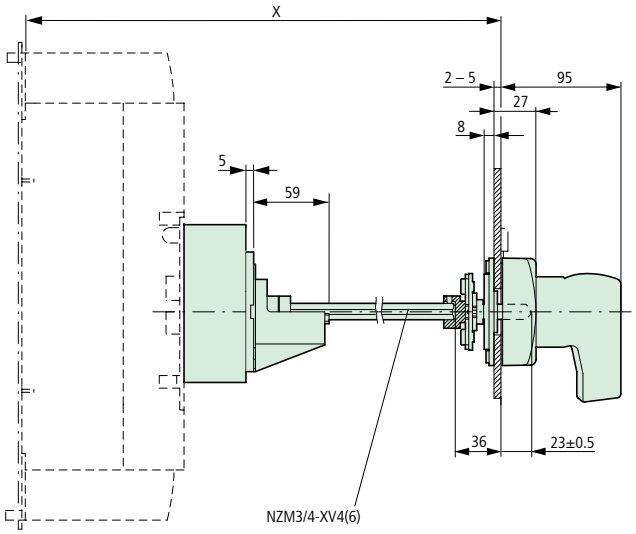
For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

Door coupling rotary handle with extension shaft

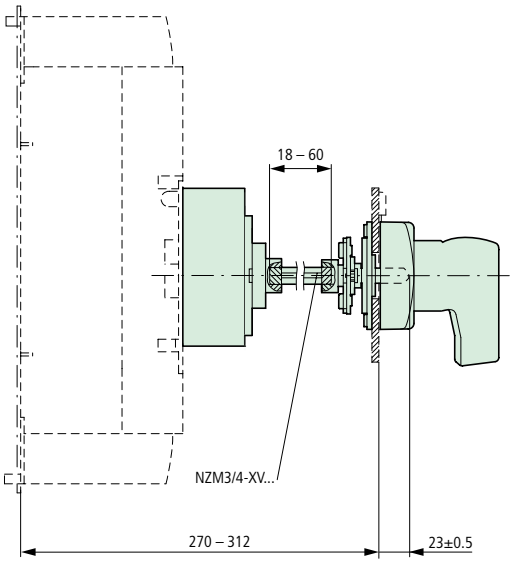
NZM4-XT(V)D(V)(R)(-NA)
NZM3/4-XV4(6)



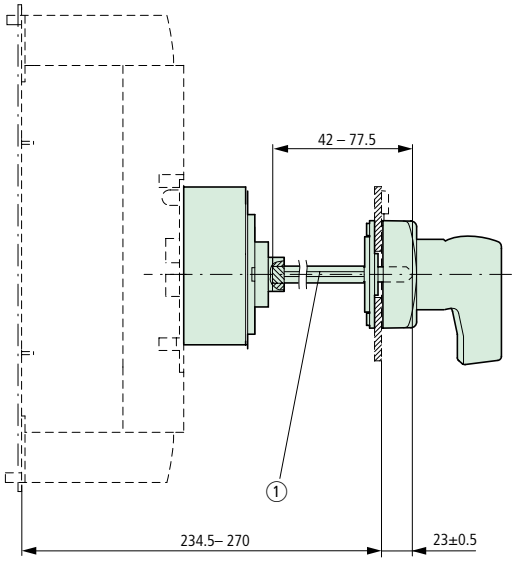


	x
NZM3/4-XV4	300 – 400
NZM3/4-XV6	400 – 600

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

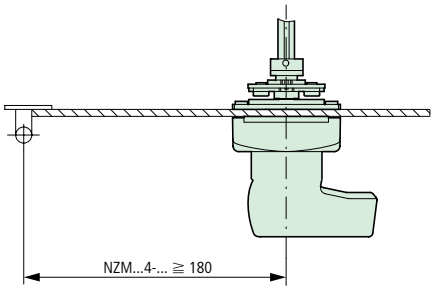


NZM4-XT(V)D(V)(R)-0(-NA)



① Special tip

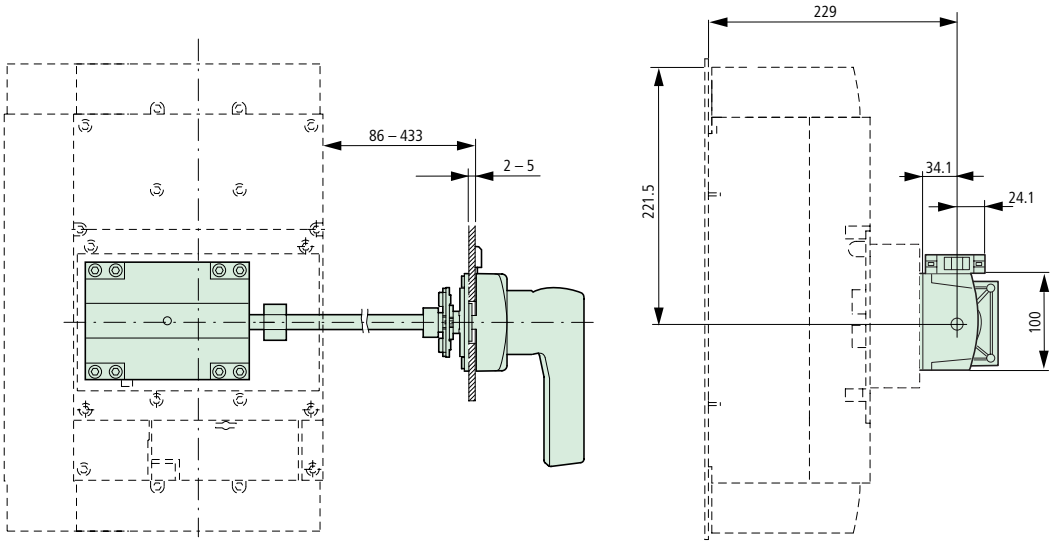
Minimum door coupling rotary handle clearance from door pivot point



For Immediate Delivery call KMParts.com at (866) 595-9616

Main switch assembly kit for side wall installation

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

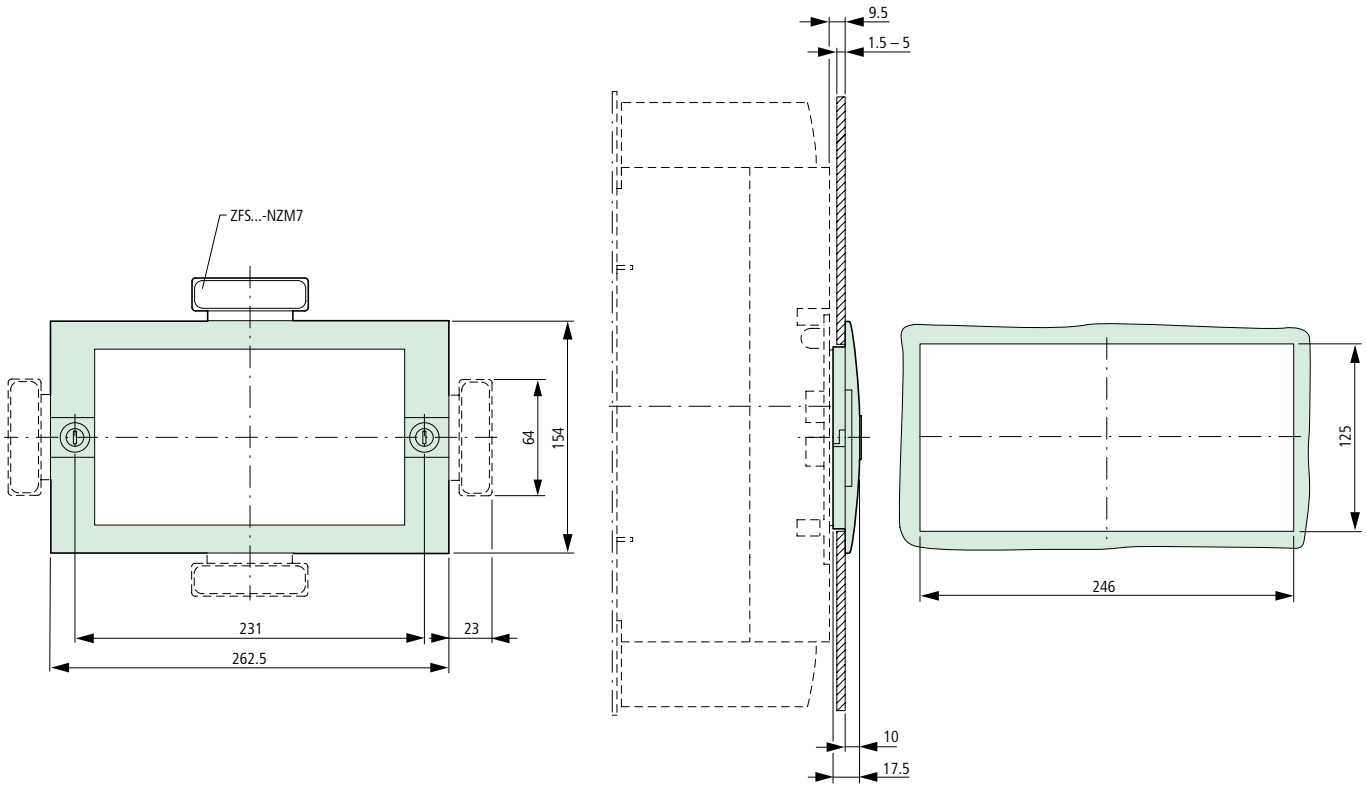


For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

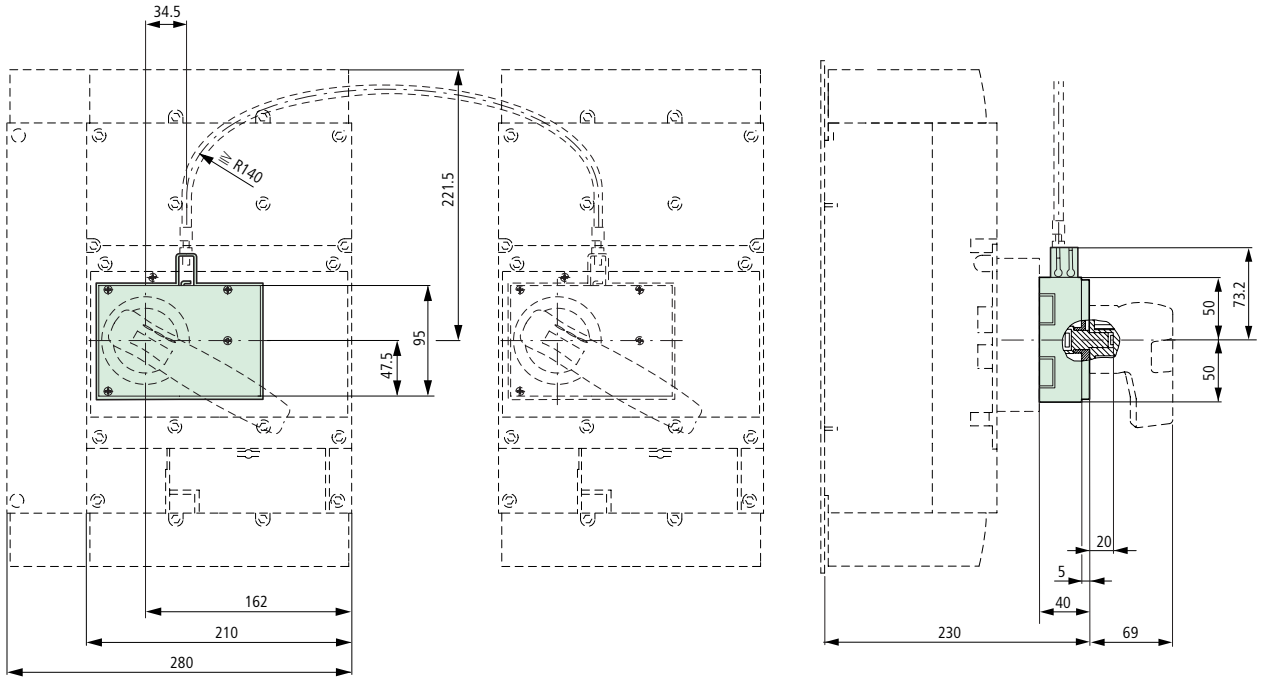
Insulating surround

NZM4-XBR



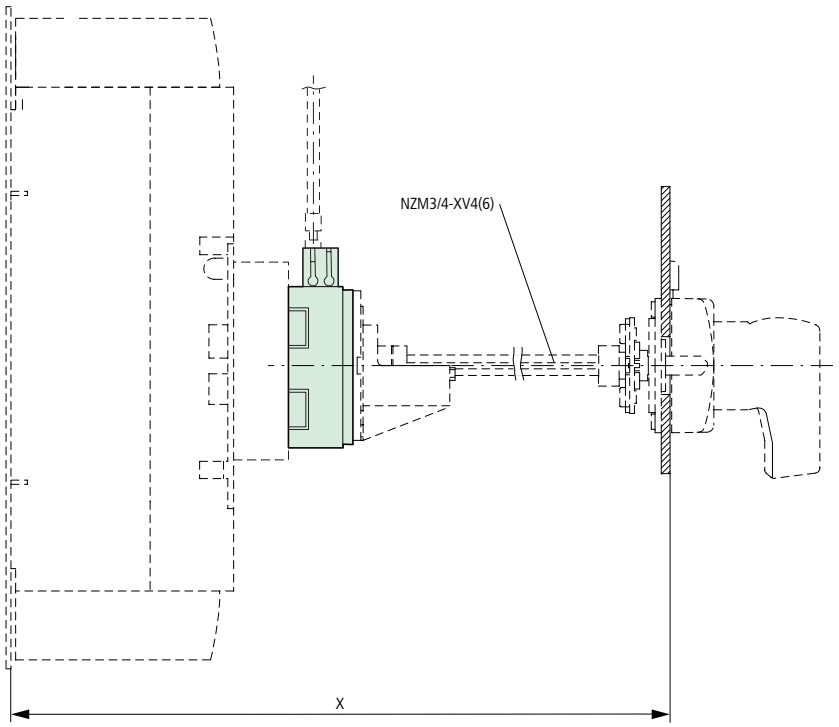
Mechanical interlock

NZM4-XMV with NZM4-XDV(R)



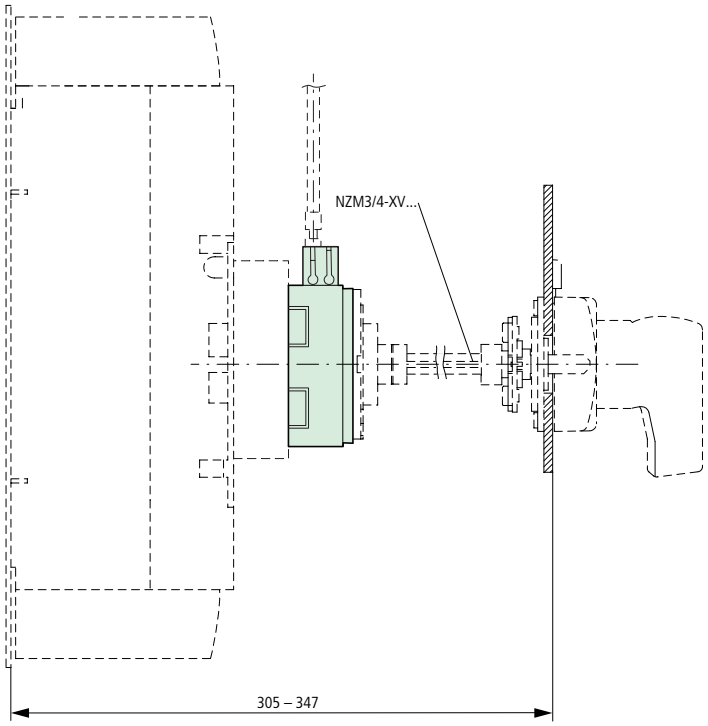
For Immediate Delivery call KMParts.com at (866) 595-9616

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



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

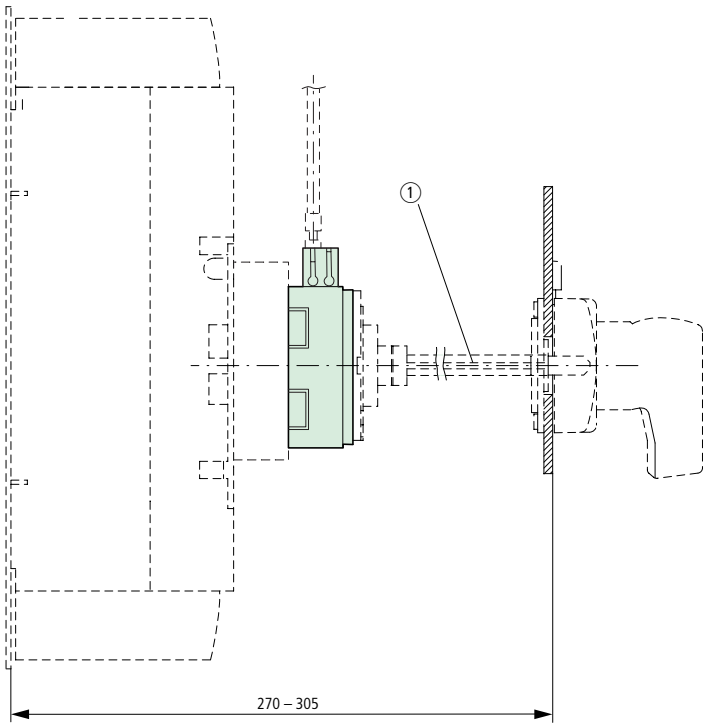
NZM4-XMV with NZM4-XT(V)D(V)(R)-60



For Immediate Delivery call KMParts.com at (866) 595-9616

Moeller SK1230-1157EN-NA

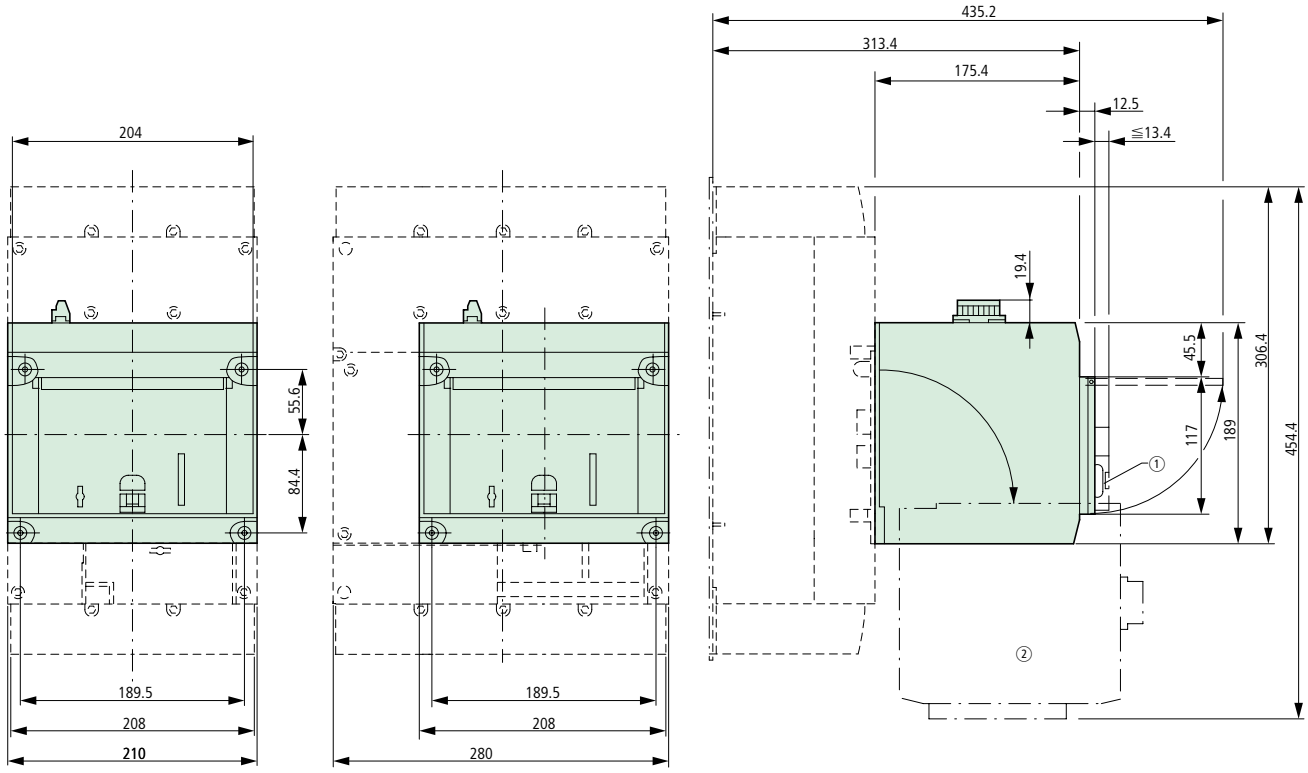
NZM4-XMV with NZM4-XT(V)D(V)(R)-0

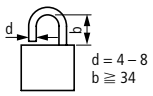


① Special tip

Remote operator

NZM4-XR...

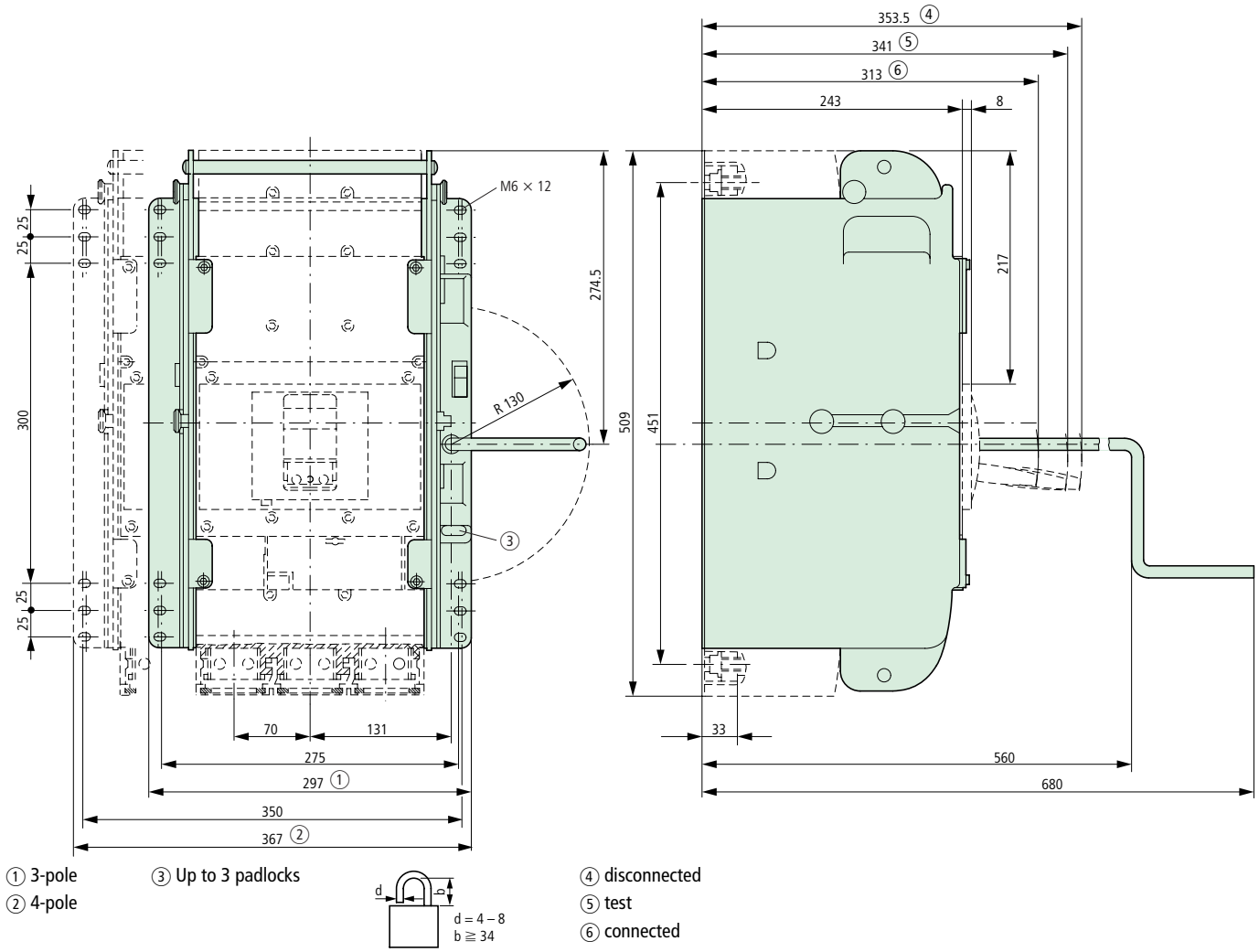




① Up to 3 padlocks
② Remote operator folded

For Immediate Delivery call KMParts.com at (866) 595-9616

Withdrawable unit
+NZM4-XAV



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

For Immediate Delivery call KMParts.com at (866) 595-9616

+

+NZM...-XAV... Withdrawable unit with auxiliary plug-in adapter 65
+NZM...-XKC Box terminal 71, 75
+NZM...-XKR... Connection on rear 71, 77
+NZM...-XSV... Plug-in units 64

A

B

BPF-NZM... Lightning symbol 59

E

EASY221-CO Expansion unit CANopen 88
EASY222-DN Expansion unit DeviceNet 88
EASY400-POW Switched-mode power supply unit 88

F

FDT-NAVIGATOR FDT frame software for field device operation 89

K

K.../1 insulated additional terminal 90
K.../BR insulated additional terminal 90
KS...-NZM7 Cable lug 73

M

M22-... Auxiliary contacts 24
M22-TA Telescopic adapters 88

N

N1-...-NA Disconnect switches for North America 21
N2-...-NA Disconnect switches for North America 21
N3-...-NA Disconnect switches for North America 21
N4-...-NA Disconnect switches for North America 21
NS1-...-NA Molded case switches for North America 20
NS2-...-NA Molded case switches for North America 20
NS3-...-NA Molded case switches for North America 20
NS4-...-NA Molded case switches for North America 20
NZM...1-...-CNA Circuit-breakers for North America 10
NZM...1-...-NA Circuit-breakers for North America 6, 8
NZM...2-...-CNA Circuit-breakers for North America 12
NZM...2-...-NA Circuit-breakers for North America 6, 8, 16, 18
NZM...3-...-CNA Circuit-breakers for North America 18
NZM...3-...-NA Circuit-breakers for North America 14, 16, 18
NZM...4-...-NA Circuit-breakers for North America 14, 16, 18
NZM...-XA... Shunt releases 38, 40, 42, 44, 46, 48
NZM...-XA...MNS Shunt releases for mesh network circuit-breakers 42, 48
NZM...-XAB Spacers 60
NZM...-XBR Insulating surround 60
NZM...-XC... Clip plate 60
NZM...-XD... Rotary handle 54
NZM...-XDTV... Rotary handle with door interlock 55
NZM...-XDTV...-NA Rotary handle with door interlock for NA breakers 55
NZM...-XDZ Additional handle 60
NZM...-XHB... Main switch assembly kit 56
NZM...XHI... Auxiliary contact 24
NZM...-XHIV... Auxiliary contacts, early-make 24
NZM...-XIP... IP2X protection against contact with a finger 69, 73, 79
NZM...-XKA Tunnel terminal 67, 71, 77, 83
NZM...-XKAV Toggle lever interlock device 60
NZM...-XKB Flat cable terminal 83
NZM...-XKC Box terminal 67, 71, 75
NZM...-XKM... Module plate 81
NZM...-XKP Phase isolator 79, 87
NZM...-XKR Connection on rear 67, 69, 77, 83
NZM...-XKS Bolt connection 67, 71, 75
NZM...-XKS... Cable lug 73, 79, 87
NZM...-XKSA Cover 69, 73, 79, 87
NZM...-XKSFA Terminal cover, knockout 69, 73, 79, 87
NZM...-XKV... Connection width extension 75, 81
NZM...-XMV Mechanical interlock for rotary door handle 61
NZM...-XMVR Mechanical interlock for remote operator 61
NZM...-XMVRL Mechanical interlock for remote operator 61
NZM...-XRC Clamp terminal springloaded clamp 62
NZM...-XS... Main switch assembly kit for side panel mounting 56, 57, 58
NZM...-XST Control circuit terminal 69, 73, 87
NZM...-XSV... Plug-in units 64
NZM...-XT... Door coupling rotary handle 50, 51
NZM...-XT...-NA Door coupling rotary handle for NA breakers 52, 53
NZM...-XU... Undervoltage releases 26, 28, 30, 34, 35, 36
NZM...-XUV... Undervoltage releases for combination with separate delay unit 37
NZM...-XV... Extension shaft 50, 52
NZM1/2-XZB Additional plate 58
NZM4-XAS... Adapter set 83, 85
NZM-XBZ... Bowden cables 61
NZM-XCM Capacitor unit 40
NZM-XDMI612 Data management interface (DMI module) 88
NZM-XDMI-DPV1 Expansion unit PROFIBUS-DPV1 slave 88
NZM-XPC-DTM DTM software module to FTD standard 89
NZM-XPC-KIT Diagnostics and configuration software for NZM and DMI 88

P

S

U

UVU-NZM Undervoltage releases, off-delayed 37

Z

ZFS...-NZM... External warning plate 59

For Immediate Delivery call KMParts.com at (866) 595-9616

Part number	Device	Page
A		
Adapter set		83, 85
Additional handle		60
Additional plate		58
Auxiliary contact		24, 25
Auxiliary contact, early-make		24, 25
B		
Bolt connection		67, 71, 75
Bowden cables		61
Box terminal		67, 71, 75
C		
Cable lug		73, 79, 87
Capacitor unit		40
Circuit-breakers for North America		6 – 18
Clamp terminal springloaded clamp		62
Clip plate		60
Connection on rear		67, 71, 77, 83
Connection width extension		75, 81
Control circuit terminal		69, 73, 87
D		
Data management interface (DMI module)		88
Diagnostic and configurator software for NZM and DMI		88
Door coupling rotary handle		50 – 53
Door coupling rotary handle for UL/CSA approved breakers		52, 53
DTM software module to FTD standard		89
E		
Expansion unit CANopen		88
Expansion unit DeviceNet		88
Expansion unit PROFIBUS-DPV1 slave		88
Extension shaft		50, 52
External warning plate		59
F		
FDT frame software for operating field devices		89
Flat cable terminal		83
I		
Insulating surround		60
IP2X protection against contact with a finger		69, 73, 79
Iusulated additional terminal		90
L		
Lightning symbol		59
M		
Main switch assembly kit		56
Main switch assembly kit for side panel mounting		56, 57, 58
Mechanical interlock for remote operator		61
Mechanical interlocking of (door coupling) rotary handles		61
Module plate		81
Molded case switches for North America		20
P		
Phase isolator		79, 87
Plug-in units		64
R		
Rotary handle		54
Rotary handle with door interlock		55
S		
Shroud		69, 73, 79, 87
Shunt release		38 – 49
Shunt release for mesh network circuit-breaker		42, 48
Spacer		60
Disconnect switches for North America		21
Switched-mode power supply unit		88
T		
Telescopic adapter		88
Terminal cover, knockout		69, 73, 79, 87
Toggle lever interlock device		60
Tunnel terminal		67, 71, 77, 83
U		
Undervoltage release		26 – 36
Undervoltage release, for combination with separate delay unit		37
Undervoltage releases, off-delayed		37
W		
Withdrawable unit with auxiliary plug-in adapter		65

For Immediate Delivery call KMParts.com at (866) 595-9616

www.moellerusa.com
www.moeller.ca

Moeller Corporate Headquarters
4140 World Houston Parkway, N° 100
Houston, Texas USA 77032

Tel 713.933.0999
Fax 832.613.6255

Moeller Canadian Head Office
7275 Rapistan Court
Mississauga, Ontario CANADA
L5N 5Z4

Tel 905.542.2323
Fax 905.542.2321

© 2006 by Moeller, Inc.
Technical and other changes reserved.
Publication: NZM-CAT-0806
Printed in Germany 08/06
Article No: 695010

MOELLER

Think future. Switch to green.

For Immediate Delivery call KMParts.com at (866) 595-9616