

Moeller® series

# NZM3-SVE



Maximum system availability thanks to  
plug-in circuit-breakers NZM3-SVE

**EATON**

*Powering Business Worldwide*

# Plug-in Circuit-Breakers/Switch-Disconnectors



Safe and easy electrical separation of the system for service purposes or while replacing the circuit-breaker. An auxiliary-conductor connector allowing to plug in either an operating current/undervoltage trip, a remote control or an auxiliary contact is available as an option. It enables the user to do the functions test without closing/opening any active main conductor lines. The range of accessories including the connecting technology for the fixed switchgear system can be used for it without any restrictions.



## Advantages:

### Easy and safe to replace

- Safe
  - visible isolation gap
  - automatic tripping upon removal of the circuit-breaker
  - live parts in the socket are touch-protected while the circuit-breaker is removed
- Easy
  - same accessories as for the NZM series
  - same connection technology
  - the connecting line terminal does not need to be disconnected when replacing the circuit-breaker
  - the auxiliary conductor plug-in unit allows testing the functionality without disconnecting the control lines

## Areas of application:

Applications requiring a high level of system availability and safety, e.g.:

- Naval / marine & offshore applications
- Industry
- Renewable energy
- Mining
- Classic power distribution
- Chemical industry
- Power generation



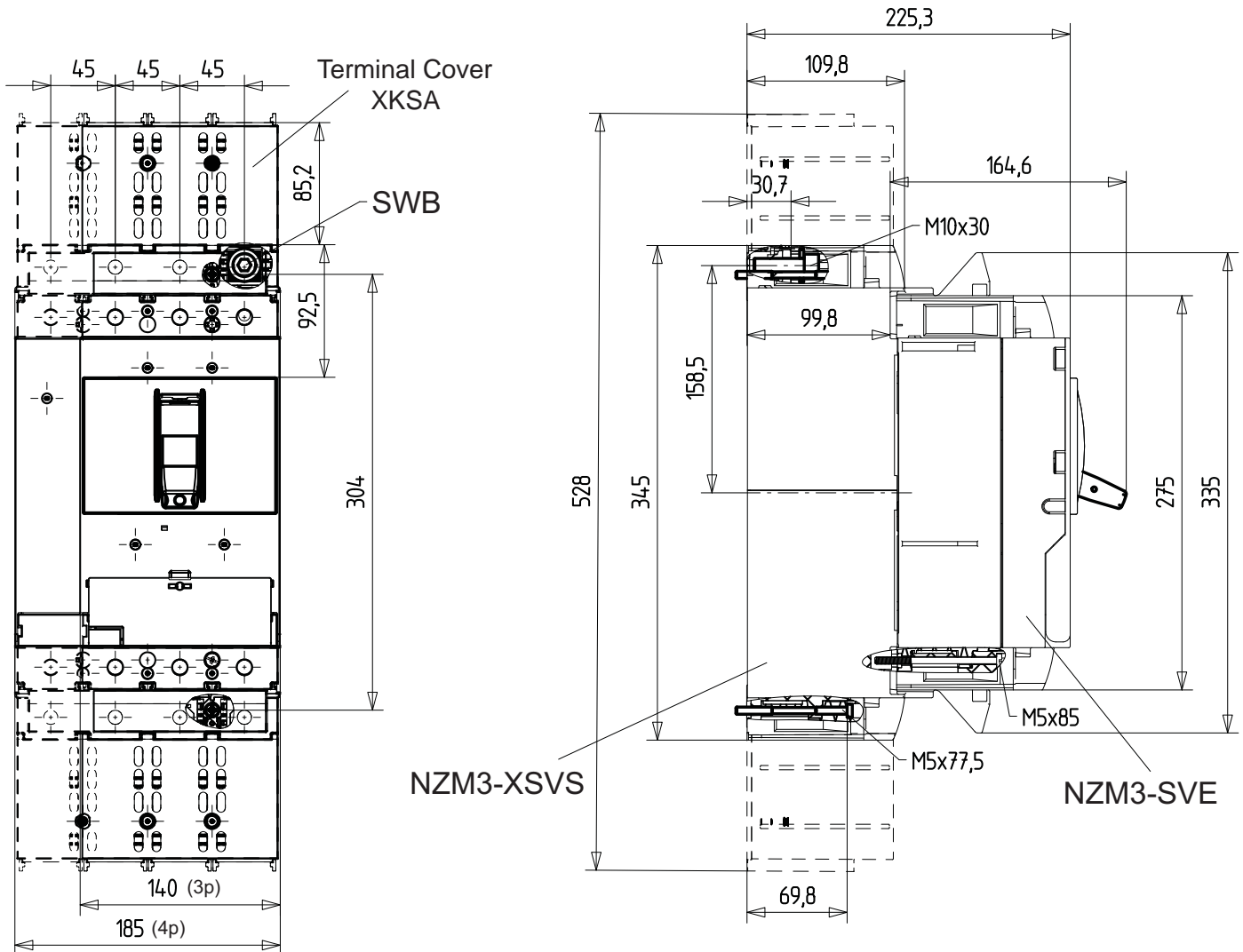
Technical data	
Rated operating voltage:	max. 690V
Rated operating current:	250-500A to 40°C without derating
Rated short-circuit breaking capacity:	to 150kA by 415VAC
Built-in position:	Vertical, left 90° / right 90°

For more technical details, please refer to our main catalogue or visit our website ([www.eaton.eu](http://www.eaton.eu))

## Derating Table

Ambient temperature °C	20	30	40	50	60	65	70
NZM...3-(4)-(A) 320-400	1	1	1	1	1	1	1
NZM...3-(4)-(A) 500	1	1	1	0,94	0,88	0,85	0,82
NZM...3-(4-) (AE)( VE) (ME)250-400	1	1	1	1	1	1	1
NZM...3-(4-) (AE)( VE) (ME)630	0,98	0,94	0,89	0,85	0,80	0,77	0,75




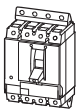

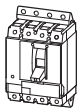

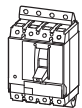
## Dimensions for three and four-pole Circuit-breakers/Switch-disconnectors



# Circuit-Breakers

Circuit Breakers, thermomagnetic releases, 3- and 4-pole




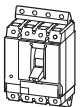

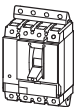


NZM

		Switching capacity 400/415V 50/60 Hz $I_{cu}$ kA	Rated current = Rated uninterrupted current $I_n = I_u$ A	Setting range Overload release $I_r$ A 	Setting range Short-circuit release Non-delayed $I_i = I_n \times \dots$ 	Part no. Article no.
<b>System and Cable Protection</b>						
Comfort switching capacity						
	3-pole	36	320	250-320	6-10	<b>NZMC3-A320-SVE</b> 168450
			400	320-400	6-10	<b>NZMC3-A400-SVE</b> 168451
			500	400-500	6-10	<b>NZMC3-A500-SVE</b> 168452
	4-pole	36	320	250-320	6-10	<b>NZMC3-4-A320-SVE</b> 168464
			320/200	250-320	6-10	<b>NZMC3-4-A320/200-SVE</b> 168465
			400	320-400	6-10	<b>NZMC3-4-A400-SVE</b> 168466
			400/250	320-400	6-10	<b>NZMC3-4-A400/250-SVE</b> 168467
			500	400-500	6-10	<b>NZMC3-4-A500-SVE</b> 168468
			500/320	400-500	6-10	<b>NZMC3-4-A500/320-SVE</b> 168469
Normal switching capacity						
	3-pole	50	320	250-320	6-10	<b>NZMN3-A320-SVE</b> 168486
			400	320-400	6-10	<b>NZMN3-A400-SVE</b> 168487
			500	400-500	6-10	<b>NZMN3-A500-SVE</b> 168488
	4-pole	50	320	250-320	6-10	<b>NZMN3-4-A320-SVE</b> 168508
			320/200	250-320	6-10	<b>NZMN3-4-A320/200-SVE</b> 168509
			400	320-400	6-10	<b>NZMN3-4-A400-SVE</b> 168510
			400/250	320-400	6-10	<b>NZMN3-4-A400/250-SVE</b> 168511
			500	400-500	6-10	<b>NZMN3-4-A500-SVE</b> 168512
			500/320	400-500	6-10	<b>NZMN3-4-A500/320-SVE</b> 168513
High switching capacity						
	3-pole	150	320	250-320	6-10	<b>NZMH3-A320-SVE</b> 168913
			400	320-400	6-10	<b>NZMH3-A400-SVE</b> 168914
			500	400-500	6-10	<b>NZMH3-A500-SVE</b> 168915
	4-pole	150	320	250-320	6-10	<b>NZMH3-4-A320-SVE</b> 168889
			320/200	250-320	6-10	<b>NZMH3-4-A320/200-SVE</b> 168890
			400	320-400	6-10	<b>NZMH3-4-A400-SVE</b> 168891
			400/250	320-400	6-10	<b>NZMH3-4-A400/250-SVE</b> 168892
			500	400-500	6-10	<b>NZMH3-4-A500-SVE</b> 168893
			500/320	400-500	6-10	<b>NZMH3-4-A500/320-SVE</b> 168894

# Circuit-Breakers

Circuit Breakers, electronic releases, 3- and 4-pole






NZM

		Switching capacity 400/415V 50/60 Hz $I_{cu}$ kA	Rated current = Rated uninterrupted current $I_n = I_u$ A	Setting range Overload release $I_r$ A	Setting range Short-circuit release Non-delayed $I_i = I_n \times \dots$	Part no. Article no.
 						
<b>System protection, Cable Protection, selectivity, generator protection</b>						
Normal switching capacity						
	3-pole	50	250	125-250	2-10	<b>NZMN3-VE250-SVE</b> 168480
			400	200-400	2-10	<b>NZMN3-VE400-SVE</b> 168481
			630	315-630	2-8	<b>NZMN3-VE630-SVE</b> 168482
	4-pole	50	400	200-400	2-10	<b>NZMN3-4-VE400-SVE</b> 168506
			400/250	200-400/125-250	2-10	<b>NZMN3-4-VE400/250-SVE</b> 168514
			630	315-630	1,5-7	<b>NZMN3-4-VE630-SVE</b> 168507
			630/400	315-630/200-400	1,5-7	<b>NZMN3-4-VE630/400-SVE</b> 168515
High switching capacity						
	3-pole	150	250	125-250	2-11	<b>NZMH3-VE250-SVE</b> 168907
			400	200-400	2-11	<b>NZMH3-VE400-SVE</b> 168908
			630	315-630	2-8	<b>NZMH3-VE630-SVE</b> 168909
	4-pole	150	400	200-400	2-11	<b>NZMH3-4-VE400-SVE</b> 168887
			400/250	200-400/125-250	2-11	<b>NZMH3-4-VE400/250-SVE</b> 168895
			630	315-630	2-8	<b>NZMH3-4-VE630-SVE</b> 168888
			630/400	315-630/200-400	2-8	<b>NZMH3-4-VE630/400-SVE</b> 168896
<b>Motor protection</b>						
• With phase-failure sensitivity						
Normal switching capacity						
	3-pole	50	220	110-220	2-14	<b>NZMN3-ME220-SVE</b> 168483
			350	175-350	2-14	<b>NZMN3-ME350-SVE</b> 168484
			450	225-450	2-14	<b>NZMN3-ME450-SVE</b> 168485
High switching capacity						
	3-pole	150	220	110-220	2-14	<b>NZMH3-ME220-SVE</b> 168910
			350	175-350	2-14	<b>NZMH3-ME350-SVE</b> 168911
			450	225-450	2-12	<b>NZMH3-ME450-SVE</b> 168912

# Circuit-Breakers,

Circuit Breakers, magnetic short-circuit releases, 3- and 4-pole


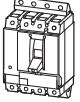
## NZM

		Switching capacity 400/415V 50/60 Hz $I_{cu}$ kA	Rated current = Rated uninterrupted current $I_n = I_u$ A	Setting range Overload release $I_r$ A 	Setting range Short-circuit release Non-delayed $I_i = I_n \times \dots$ 	Part no. Article no.
<b>Short-Circuit protection</b>						
<b>Motor protection in conjunction with overload relay</b>						
<ul style="list-style-type: none"> <li>• With short-circuit releases</li> <li>• Without overload releases</li> </ul>						
Comfort switching capacity						
	3-pole	36	250	N/A	8-14	<b>NZMC3-S250-SVE</b> 168453
			320	N/A	8-14	<b>NZMC3-S320-SVE</b> 168454
			400	N/A	6-10	<b>NZMC3-S400-SVE</b> 168455
			500	N/A	6-10	<b>NZMC3-S500-SVE</b> 168456
Normal switching capacity						
	3-pole	50	250	N/A	8-14	<b>NZMN3-S250-SVE</b> 168489
			320	N/A	8-14	<b>NZMN3-S320-SVE</b> 168490
			400	N/A	6-10	<b>NZMN3-S400-SVE</b> 168491
			500	N/A	6-10	<b>NZMN3-S500-SVE</b> 168492
High switching capacity						
	3-pole	150	250	N/A	8-14	<b>NZMH3-S250-SVE</b> 168916
			320	N/A	8-14	<b>NZMH3-S320-SVE</b> 168917
			400	N/A	8-14	<b>NZMH3-S400-SVE</b> 168918
			500	N/A	8-14	<b>NZMH3-S500-SVE</b> 168919

# Switch-disconnectors and Accessories

3- and 4-pole

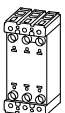
**N**

		Rated current = Rated uninterrupted current $I_n = I_u$ A	Short-circuit protection, max. fuse gL-characteristic A gL				<b>Part no.</b> Article no.
2 switch positions I, 0							
	3-pole	400	630				<b>N3-400-SVE</b> 168544
		630	630				<b>N3-630-SVE</b> 168545
	4-pole	400	630				<b>N3-4-400-SVE</b> 168470
		630	630				<b>N3-4-630-SVE</b> 168471

## Plug-in units

For circuit-breakers NZM and switch-disconnectors N  
U<sub>e</sub> max 690V

### Plug-in Socket



3-pole

4-pole

**NZM3-XSVS**  
168472

**NZM3-4-XSVS**  
168473

### Control circuit plug unit



For auxiliary contact shunt/undervoltage release

For remote operator

**NZM2-XSVHI**  
266705

**NZM2-XSVR**  
266706

Eaton is dedicated to ensuring that reliable, efficient and safe power is available when it's needed most. With unparalleled knowledge of electrical power management across industries, experts at Eaton deliver customized, integrated solutions to solve our customers' most critical challenges.

Our focus is on delivering the right solution for the application. But, decision makers demand more than just innovative products. They turn to Eaton for an unwavering commitment to personal support that makes customer success a top priority.

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