



## Switch-disconnector 3p 400A terminals

**Part no.** N3-400-BT  
**Article no.** 110316

**Catalog No.**



Powering Business Worldwide™

### Delivery programme

Product range  
 Protective function  
 Standard/Approval  
 Installation type  
 Construction size  
 Description

Switch-disconnectors  
 Disconnectors/main switches  
 IEC  
 Fixed  
 N3  
 Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113.  
 Isolating characteristics to IEC/EN 60947-3 and VDE 0660.  
 Busbar tag shroud to VDE 0160 Part 100.  
 3 pole  
 Box terminal  
 I, +, 0  
 400  
 630

Number of conductors  
 Standard equipment  
 Switch positions  
 Rated current = rated uninterrupted current  $I_n = I_u$  A  
 Short-circuit protection max. fuse gL-characteristic A gL

### Switch-disconnectors

Rated surge voltage invariability

Main contacts

Auxiliary contacts

Rated operational voltage


Rated current = rated uninterrupted current

Overvoltage category/pollution degree

Rated insulation voltage

Use in unearthed supply systems

Other technical data (sheet catalogue)

$U_{imp}$	V	8000
	V	6000
$U_e$	V AC	690
$I_n = I_u$	A	400
		III/3
$U_i$	V	1000
	V	 690
		Rated operating voltage: 40-60 Hz
		Weight Temperature dependency, Derating Effective power loss

### Rated short-circuit making capacity

690 V 50/60 Hz

$I_c$	kA	25
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### Rated short-time withstand current

$t = 0.3$  s

$I_{cw}$	kA	12
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$t = 1$  s

$I_{cw}$	kA	12
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### Rated conditional short-circuit current

With back-up fuse

	A gG/ gL	PN3(N3)-400...630: 630
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400 ... 415 V

	kA	100
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690 V

	kA	80
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With downstream fuse

	A gG/ gL	PN3(N3)-400...630: 630
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400 ... 415 V

	kA	100
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690 V

	kA	80
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### Rated making and breaking capacity

Rated operational current

415 V

$I_e$	A	
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690 V

$I_e$	A	630
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415 V

$I_e$	A	630
-------	---	-----

690 V

$I_e$	A	630
-------	---	-----

$I_e$	A	630
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Lifespan, mechanical  
 Max. operating frequency

Operations		15000
	Ops/h	60

### Lifespan, electrical

400 V V 50/60 Hz  
 415 V V 50/60 Hz  
 690 V V 50/60 Hz  
 400 V 50/60 Hz  
 415 V 50/60 Hz  
 690 V 50/60 Hz

Current heat losses per pole at  $I_U$  are based on the maximum rated operational current of the frame size.

Total downtime in a short-circuit

Operations		5000
Operations		5000
Operations		3000
Operations		3000
Operations		3000
Operations		2000
		For current heat loss per pole the specification refers to the maximum rated operational current of the frame size.
	W	40
		For current heat loss per pole the specification refers to the maximum rated operational current of the frame size.
	ms	< 10

### Terminal capacity

Standard equipment

Overview

		Box terminal
		Basic equipment
		Box terminal ● - - -
		Screw connection - ● ● ●
		Accessories
		Box terminal - ● ● -
		Screw connection ● - - ●
		Tunnel terminal ● ● ● ●
		Connection on rear ● ● ● ●
		Flat conductor terminal - - - ●

Round copper conductor

Box terminal

Solid

mm<sup>2</sup> 2 x 16

Stranded

mm<sup>2</sup> 1 x (35 - 240)  
2 x (25 - 120)

Tunnel terminal

Solid

mm<sup>2</sup> 1 x (16 - 185)

Stranded

mm<sup>2</sup>

Stranded

mm<sup>2</sup> 1 x (25 - 185)

Double hole fitting

mm<sup>2</sup> 1 x (50 - 240)  
2 x (50 - 240)

Bolt terminal and rear-side connection

Direct on the switch

Solid

mm<sup>2</sup> 1 x 16  
2 x 16

Stranded

mm<sup>2</sup> 1 x (25 - 240)  
2 x (25 - 240)

Connection width extension

mm<sup>2</sup>

Connection width extension

mm<sup>2</sup> 2 x 300

Al conductors, Cu cable

Solid

mm<sup>2</sup> 1 x 16

Stranded

mm<sup>2</sup>

Stranded

mm<sup>2</sup> 1 x (25 - 185)

Double hole fitting

mm<sup>2</sup> 1 x (50 - 240)  
2 x (50 - 240)

Bolt terminal and rear-side connection

Flat copper strip, with holes	min.	mm	6 x 16 x 0.8
Flat copper strip, with holes	max.	mm	10 x 32 x 1.0 + 5 x 32 x 1.0
Connection width extension		mm <sup>2</sup>	(2 x) 10 x 50 x 1.0
Cu strip (number of segments x width x segment thickness)			
Box terminal			
	min.	mm <sup>2</sup>	6 x 16 x 0.8
	max.	mm <sup>2</sup>	10 x 24 x 1.0 + 5 x 24 x 1.0 (2 x) 8 x 24 x 1.0
Bolt terminal and rear-side connection			
Flat copper strip, with holes	min.	mm	6 x 16 x 0.8
Flat copper strip, with holes	max.	mm	10 x 32 x 1.0 + 5 x 32 x 1.0
Connection width extension		mm <sup>2</sup>	(2 x) 10 x 50 x 1.0
Copper busbar (width x thickness)			
Bolt terminal and rear-side connection			
Screw connection			M10
Direct on the switch			
	min.	mm <sup>2</sup>	20 x 5
	max.	mm <sup>2</sup>	30 x 10 + 30 x 5
Connection width extension			
Connection width extension		mm <sup>2</sup>	
	max.	mm <sup>2</sup>	2 x (10 x 50)
Control cables			
		mm <sup>2</sup>	1 x (0.75 - 2.5) 2 x (0.75 - 1.5)

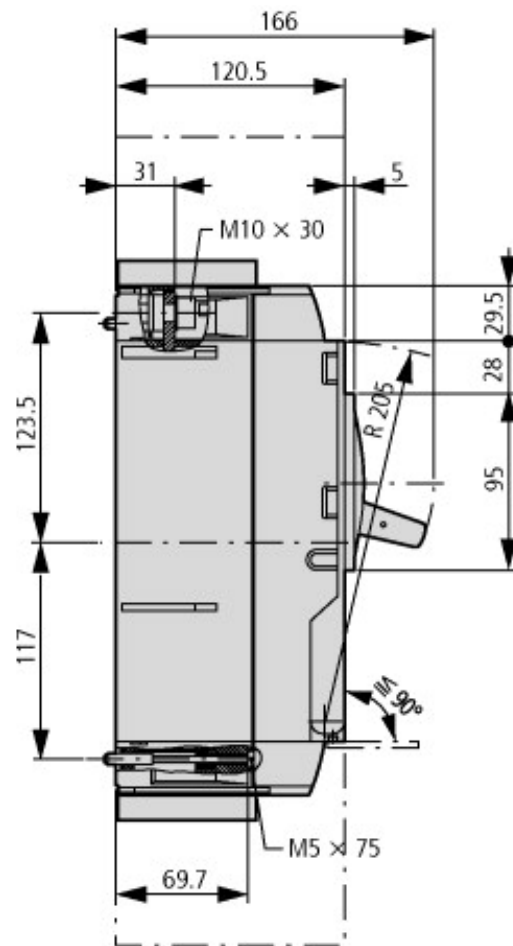
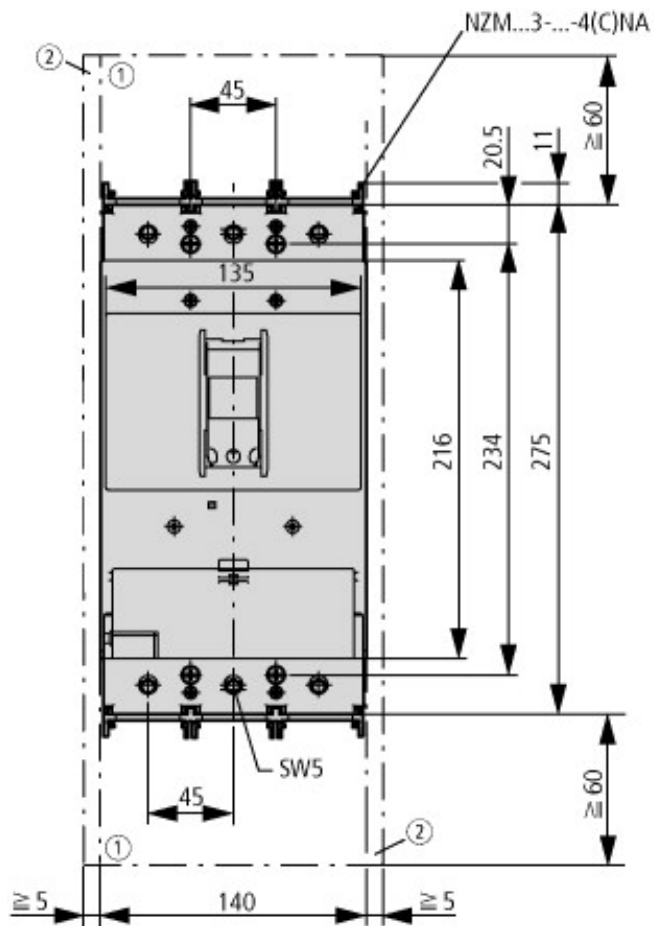
## Technical data ETIM 5.0

Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)

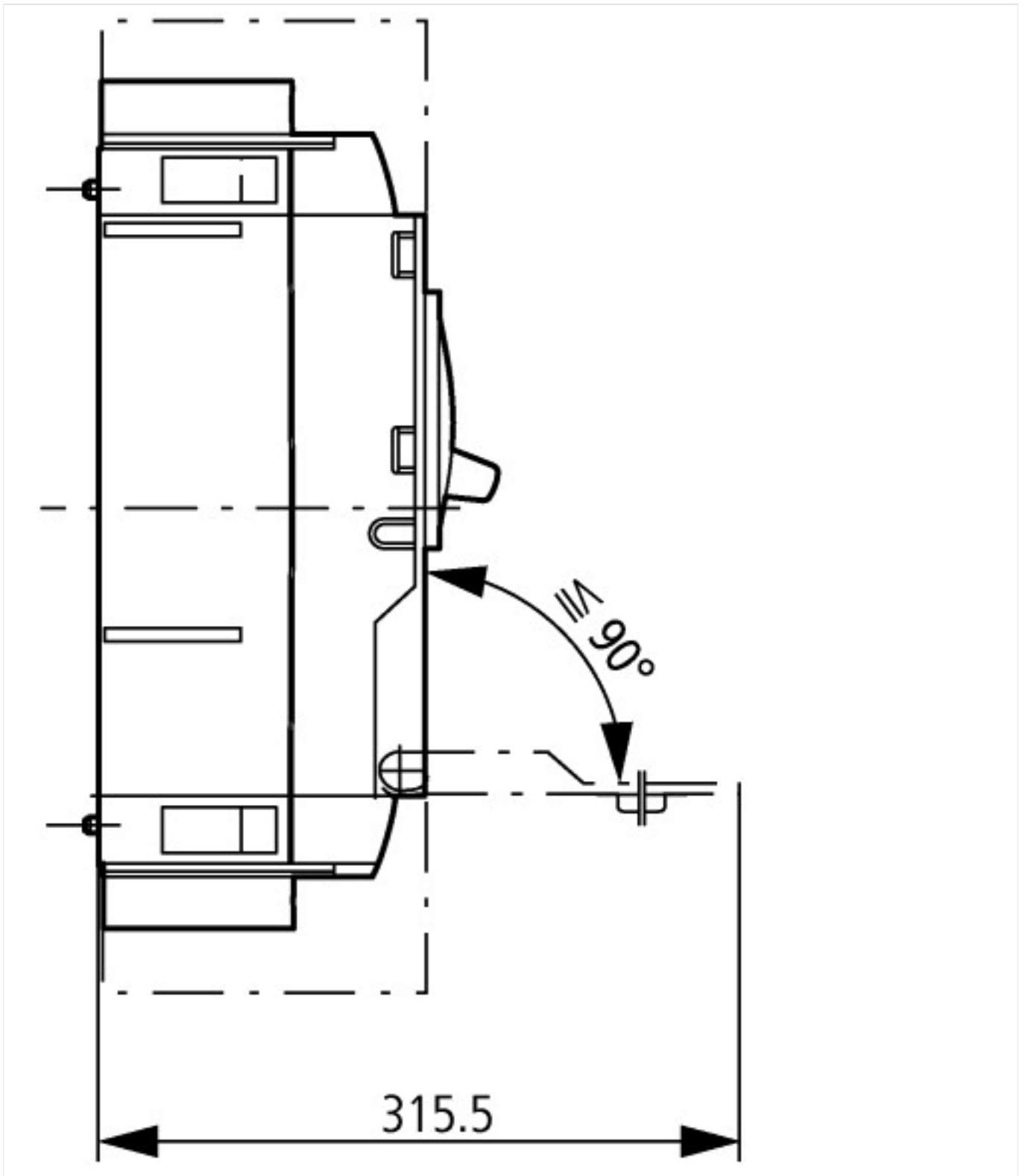
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter  
(ecl@ss8-27-37-14-03 [AKF060009])

Version as switch disconnector compact		1
Version as main switch		1
Version as maintenance-/service switch		1
Version as safety switch		0
Version as emergency stop installation		1
Max. rated operation voltage Ue AC	V	690
Rated permanent current Iu	A	400
Rated operation power AC-3, 400 V	kW	200
Rated operation power at AC-23, 400 V	kW	200
Conditioned rated short-circuit current Iq	kA	100
Number of poles		3
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as change-over contact		0
Motor drive optional		1
Motor drive integrated		0
Voltage release optional		1
Device construction		Built-in device fixed built-in technique
Suitable for ground mounting		1
Suitable for front mounting		0
Suitable for front mounting center		0
Suitable for distribution board installation		1
Suitable for intermediate mounting		1
Type of control element		Rocker lever
Interlockable		1
Connection type main current circuit		Frame clamp
Degree of protection (IP), front side		IP20

## Dimensions



- ① Blow out area, minimum clearance to adjacent parts
- ② Minimum clearance to adjacent parts



#### Additional product information (links)

IL01206006Z (AWA1230-1916) Circuit-Breaker, basic unit

IL01206006Z (AWA1230-1916) Circuit-Breaker, basic unit

[ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL01206006Z2013\\_07.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01206006Z2013_07.pdf)