

Miniature circuit-breaker FAZ, Residual current device FI, Fuse material

Tested quality, approvals and shipping classifications represent the functionality and safety suitable for world markets with Xpole industrial miniature circuit-breakers. Moeller also provides a comprehensive range of residual current devices, low-voltage fuse switch-disconnectors and fuse-load switch units.



Cylindrical fuse switch-disconnectors

- With flashing function on tripped fuse
- Sealable

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Low-voltage HRC switch-fuse strips

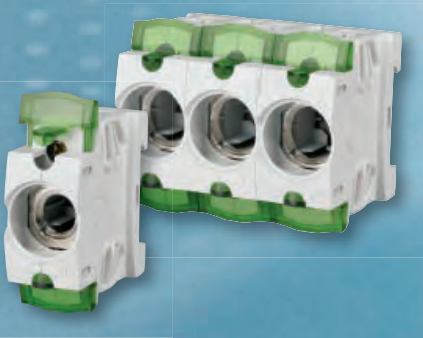
- Pivoting current transformers
- Type series with fuse monitoring
- Mounting without holes with claw clamp
- V-connection possible

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Miniature circuit-breakers

- Only 80 mm in height
- Installation and removal without disassembly of the rails
- Double comfort terminal lift/claw
- Terminal with rear plug protection

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Fuse bases

- Integrated terminal covers
- Double terminals

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Busbar mounted switch-disconnectors with D0 fuses

- Busbar system 60 mm, 5 mm or 10 mm Cu
- Simple installation
- Load switchable on all poles
- Fuse change without load

Part. no. D02-S/63/3-RS

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Miniature circuit-breakers, residual-current circuit-breakers

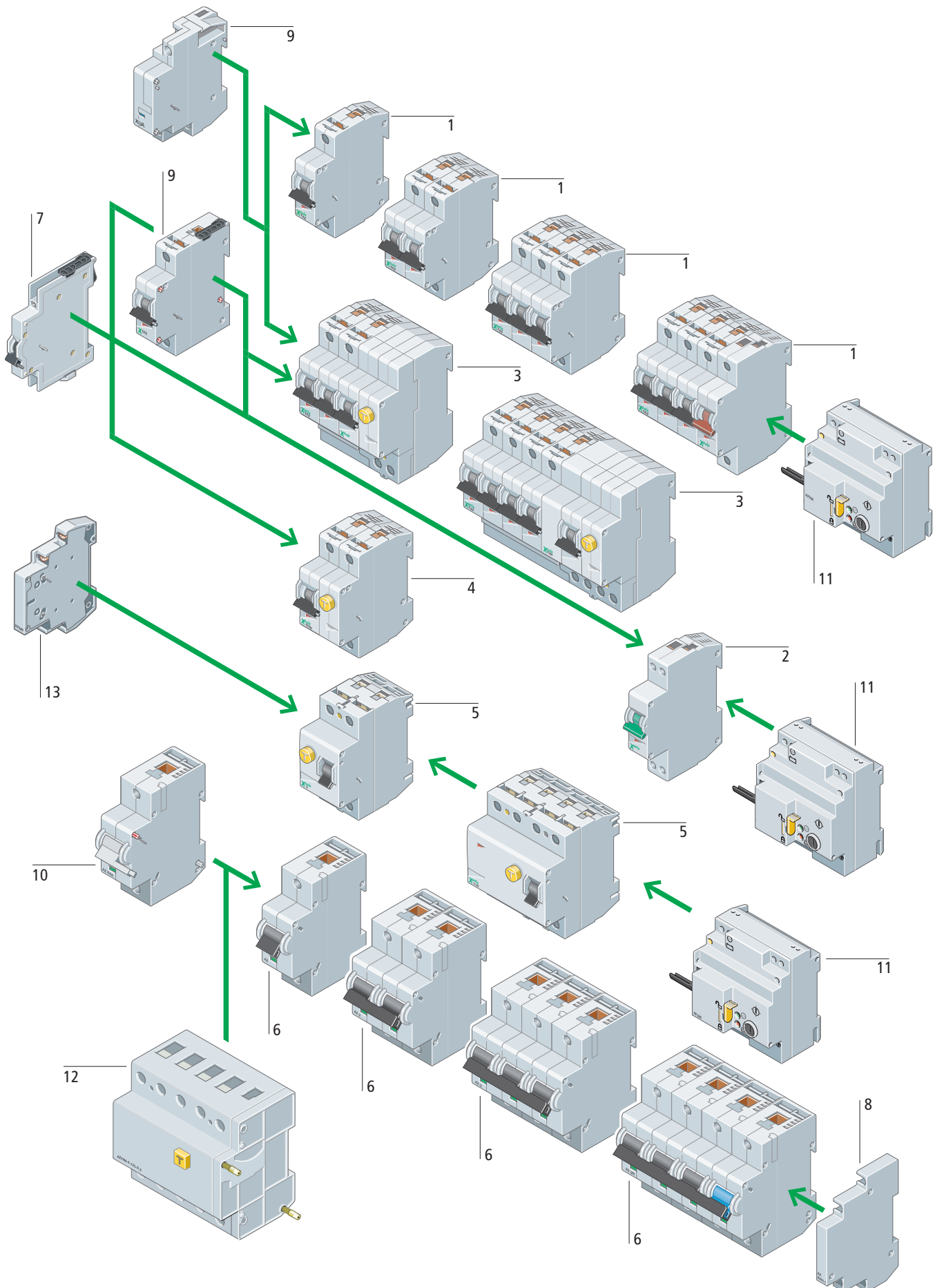


Fuse bases, Fuse switch-disconnectors



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Miniature circuit-breakers, residual-current circuit-breakers

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Base units

Miniature circuit-breakers FAZ	1
Characteristics/rated current ranges	
B/4 ... 63 A; C/0,5 ... 63 A; D/6 ... 40 A	
Switching capacity:	
15 kA to IEC/EN 60947-2	
B, C, D characteristic	
1-, 1N-, 2-, 3-, 3N-, 4-pole	
Special miniature circuit-breakers for auxiliary circuits (1 and 2 pole)	
Special miniature circuit-breaker for DC-applications up to 500 V DC	
→ page 16/4	
FAZ-PN miniature circuit-breakers	2
Characteristic/rated current ranges	
B/6 ... 40 A; C/2 ... 40 A	
Switching capacity:	
6 kA to IEC/EN 60898	
B, C characteristic	
1 N pole	
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Residual current protective modules for attachment to FAZ	3
Protection in the event of fault current	
Rated current range 40 ... 63 A	
Rated fault current 30 mA, 300 mA	
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Residual current protective modules for attachment to AZ	12
Protection in the event of fault current	
Rated current range 80 ... 125 A	
Rated fault current 30 mA, 300 mA	
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PKNM combined RCD/MCB device	4
Overload, short-circuit protection and protection with fault currents	
Characteristic/rated current ranges	
B/6-40 A; C/6-40 A; 1N pole	
Switching capacity:	
10 kA to IEC/EN 60898	
Rated fault current 30 mA, 300 mA	
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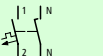
Residual-current circuit-breakers	5
AC current sensitive	
2 pole 16 ... 80 A	
4 pole 25 ... 80 A	
Pulsed current sensitive	
2 pole 16 ... 40 A	
4 pole 25 ... 125 A	
AC/DC	
4 pole 40 ... 125 A	
Rated fault current	
30 mA, 100 mA, 300 mA, 500 mA	
4 pole selective, 63 ... 80 A	
Rated fault current	
100 mA, 300 mA	
4 pole frequency-inverter immune 40, 63 A	
100 mA, 300 mA	
→ page 16/14	
Miniature circuit-breakers AZ	6
Characteristic/rated current ranges C/20-125 A; D/50-100 A	
Switching capacity: 15 ... 25 kA to IEC/EN 60947-2, 1-, 2-, 3-, 3N-, 4-pole	
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Add-on functions

Auxiliary contacts FAZ	7
Standard auxiliary contacts	
Trip-indicating auxiliary contact	
Auxiliary contacts	
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Auxiliary contacts AZ	8
Standard auxiliary contacts	
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FAZ voltage releases	9
Undervoltage release	
Shunt release	
Can be fitted to FAZ or FAZ-FIM	
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Voltage releases AZ	10
Shunt release	
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Residual-current auxiliary contact	13
Auxiliary contacts	
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Remote switching module	11
Suitable for remote switching and automatic restart of a miniature circuit-breaker or RCCB, for remote trip testing of a RCCB in conjunction with a remote test module	
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FAZ-B			Moeller HPL0211-2007/2008			http://catalog.moeller.net			
Rated current I_n A	1 pole		Std. pack	2 pole With 2 protected poles		Std. pack	3 pole With 3 protected poles		Std. pack
									
	Part no. Article no.	Price see price list		Part no. Article no.	Price see price list		Part no. Article no.	Price see price list	
Miniature circuit-breakers FAZ									
Characteristic B Instantaneous release response current 3 ... 5 × I_n Switching capacity 15 kA (IEC/EN 60947-2)	4	FAZ-B4/1-HS 279274	12 off	FAZ-B4/2-HS 279275	1off				
	5	FAZ-B5/1 278528							
	6	FAZ-B6/1 278529		FAZ-B6/2 278728		FAZ-B6/3 278841	1 off		
	8	FAZ-B8/1 278530		FAZ-B8/2 278729		FAZ-B8/3 278842			
	10	FAZ-B10/1 278531		FAZ-B10/2 278730		FAZ-B10/3 278843			
	12	FAZ-B12/1 278532		FAZ-B12/2 278731		FAZ-B12/3 278844			
	13	FAZ-B13/1 278533		FAZ-B13/2 278732		FAZ-B13/3 278845			
	15	FAZ-B15/1 278534		FAZ-B15/2 278733		FAZ-B15/3 278846			
	16	FAZ-B16/1 278535		FAZ-B16/2 278734		FAZ-B16/3 278847			
	20	FAZ-B20/1 278536		FAZ-B20/2 278735		FAZ-B20/3 278848			
	25	FAZ-B25/1 278537		FAZ-B25/2 278736		FAZ-B25/3 278849			
	32	FAZ-B32/1 278538		FAZ-B32/2 278737		FAZ-B32/3 278850			
	40	FAZ-B40/1 278539		FAZ-B40/2 278738		FAZ-B40/3 278851			
	50	FAZ-B50/1 278540		FAZ-B50/2 278739		FAZ-B50/3 278852			
	63	FAZ-B63/1 278541		FAZ-B63/2 278740		FAZ-B63/3 278853			

http://catalog.moeller.net			Moeller HPL0211-2007/2008			FAZ-B					
4 pole With 4 protected poles  Part no. Article no. Price see price list			2 pole With 1 protected pole, N switching with pole  Part no. Article no. Price see price list			4 pole With 3 protected poles, N switching with poles  Part no. Article no. Price see price list			Notes		
Std. pack			Std. pack			Std. pack					



FAZ-C, FAZ-D

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Miniature circuit-breakers
Residual-current circuit-breakers

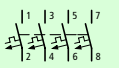
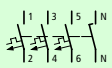
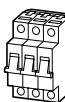
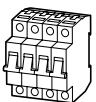
		1 pole		Std. pack	2 pole With 2 protected poles		Std. pack	3 pole With 3 protected poles		Std. pack
										
Rated current		Part no.	Price	Std. pack	Part no.	Price	Std. pack	Part no.	Price	Std. pack
I_n		Article no.	see price list		Article no.	see price list		Article no.	see price list	
A										
Miniature circuit-breakers FAZ										
Characteristic C Instantaneous release response current 5 ... 10 × I_n Switching capacity 15 kA (IEC/EN 60947-2)	0.5	FAZ-C0,5/1 278544		12 off	FAZ-C0,5/2 278743		1 off	FAZ-C0,5/3 278856		1 off
	1	FAZ-C1/1 278546			FAZ-C1/2 278745			FAZ-C1/3 278858		
	1.6	FAZ-C1,6/1 278548			FAZ-C1,6/2 278747			FAZ-C1,6/3 278860		
	2	FAZ-C2/1 278549			FAZ-C2/2 278748			FAZ-C2/3 278861		
	3	FAZ-C3/1 278551			FAZ-C3/2 278750			FAZ-C3/3 278863		
	4	FAZ-C4/1 278553			FAZ-C4/2 278752			FAZ-C4/3 278865		
	6	FAZ-C6/1 278555			FAZ-C6/2 278754			FAZ-C6/3 278867		
	8	FAZ-C8/1 278556			FAZ-C8/2 278755			FAZ-C8/3 278868		
	10	FAZ-C10/1 278557			FAZ-C10/2 278756			FAZ-C10/3 278869		
	13	FAZ-C13/1 278559			FAZ-C13/2 278758			FAZ-C13/3 278871		
	16	FAZ-C16/1 278561			FAZ-C16/2 278760			FAZ-C16/3 278873		
	20	FAZ-C20/1 278562			FAZ-C20/2 278761			FAZ-C20/3 278874		
	25	FAZ-C25/1 278563			FAZ-C25/2 278762			FAZ-C25/3 278875		
	32	FAZ-C32/1 278564			FAZ-C32/2 278763			FAZ-C32/3 278876		
	40	FAZ-C40/1 278565			FAZ-C40/2 278764			FAZ-C40/3 278877		
Characteristic D Instantaneous release response current 10 ... 20 × I_n Switching capacity 15 kA (IEC/EN 60947-2)	50	FAZ-C50/1 278566		12 off	FAZ-C50/2 278765		1 off	FAZ-C50/3 278878		1 off
	63	FAZ-C63/1 278567			FAZ-C63/2 278766			FAZ-C63/3 278879		
	6	FAZ-D6/1 278578			FAZ-D6/2 278777			FAZ-D6/3 278890		
	8	FAZ-D8/1 278579			FAZ-D8/2 278778			FAZ-D8/3 278891		
	10	FAZ-D10/1 278580			FAZ-D10/2 278779			FAZ-D10/3 278892		
	13	FAZ-D13/1 278582			FAZ-D13/2 278781			FAZ-D13/3 278894		
	16	FAZ-D16/1 278584			FAZ-D16/2 278783			FAZ-D16/3 278896		
	20	FAZ-D20/1 278585			FAZ-D20/2 278784			FAZ-D20/3 278897		
	25	FAZ-D25/1 278586		12 off	FAZ-D25/2 278785		1 off	FAZ-D25/3 278898		1 off
	32	FAZ-D32/1 278587			FAZ-D32/2 278786			FAZ-D32/3 278899		
	40	FAZ-D40/1 278588			FAZ-D40/2 278787			FAZ-D40/3 278900		



FAZ-C, FAZ-D

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4 pole With 4 protected poles		Std. pack	2 pole With 1 protected pole, N switching with pole		Std. pack	4 pole With 3 protected poles, N switching with poles		Std. pack	Notes
									
Part no. Article no.	Price see price list		Part no. Article no.	Price see price list		Part no. Article no.	Price see price list		
FAZ-C0,5/4 279044		1 off	FAZ-C,5/1N 278657		1 off	FAZ-C0,5/3N 278958		1 off	Switching capacity (IEC/EN 60898) 10 kA Switching capacity (IEC/EN 60947-2) 15 kA Accessories Page Auxiliary contacts, voltage releases → 16/17 Mounting accessories → 16/18 1 pole Depth 71 mm Width 17.5 mm  3 pole Depth 71 mm Width 52.5 mm  2 pole; 1 N pole Depth 71 mm Width 35 mm  4 pole; 3N pole Depth 71 mm Width 70 mm 
FAZ-C1/4 279046			FAZ-C1/1N 278659			FAZ-C1/3N 278960			
FAZ-C1,6/4 279048			FAZ-C1,6/1N 278661			FAZ-C1,6/3N 278962			
FAZ-C2/4 279049			FAZ-C2/1N 278662			FAZ-C2/3N 278963			
FAZ-C3/4 279051			FAZ-C3/1N 278664			FAZ-C3/3N 278965			
FAZ-C4/4 279053			FAZ-C4/1N 278666			FAZ-C4/3N 278967			
FAZ-C6/4 279055			FAZ-C6/1N 278668			FAZ-C6/3N 278969			
FAZ-C8/4 279056			FAZ-C8/1N 278669			FAZ-C8/3N 278970			
FAZ-C10/4 279057			FAZ-C10/1N 278670			FAZ-C10/3N 278971			
FAZ-C13/4 279059			FAZ-C13/1N 278672			FAZ-C13/3N 278973			
FAZ-C16/4 279061			FAZ-C16/1N 278674			FAZ-C16/3N 278975			
FAZ-C20/4 279062			FAZ-C20/1N 278675			FAZ-C20/3N 278976			
FAZ-C25/4 279063			FAZ-C25/1N 278676			FAZ-C25/3N 278977			
FAZ-C32/4 279064			FAZ-C32/1N 278677			FAZ-C32/3N 278978			
FAZ-C40/4 279065			FAZ-C40/1N 278678			FAZ-C40/3N 278979			
FAZ-C50/4 279066			FAZ-C50/1N 278679			FAZ-C50/3N 278980			
FAZ-C63/4 279067			FAZ-C63/1N 278680			FAZ-C63/3N 278981			
FAZ-D6/4 279078		1 off				FAZ-D6/3N 278992		1 off	
FAZ-D8/4 279079						FAZ-D8/3N 278993			
FAZ-D10/4 279080						FAZ-D10/3N 278994			
FAZ-D13/4 279082						FAZ-D13/3N 278996			
FAZ-D16/4 279084						FAZ-D16/3N 278998			
FAZ-D20/4 279085						FAZ-D20/3N 278999			
FAZ-D25/4 279086						FAZ-D25/3N 279000			
FAZ-D32/4 279087						FAZ-D32/3N 279001			
FAZ-D40/4 279088						FAZ-D40/3N 279002			

Miniature circuit-breakers
Residual-current circuit-breakers





FAZ-PN

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	2 pole With 1 protected pole, N switching with pole 			
Rated current I_n	Part no. Article no.	Price see price list	Std. pack	
A				

FAZ-PN miniature circuit-breakers				
Characteristic B Instantaneous release response current 3 ... 5 × I_n Switching capacity 6 kA (IEC/EN 60898)				
6	FAZ-PN-B6/1N 279146		12 off	Accessories Auxiliary contacts → 16/17 Voltage releases 1 N pole Depth 71 mm Width 17.5 mm 
10	FAZ-PN-B10/1N 279147			
13	FAZ-PN-B13/1N 279148			
16	FAZ-PN-B16/1N 279149			
20	FAZ-PN-B20/1N 279150			
25	FAZ-PN-B25/1N 279151			
32	FAZ-PN-B32/1N 279152			
40	FAZ-PN-B40/1N 279153			
Characteristic C Instantaneous release response current 5 ... 10 × I_n Switching capacity 6 kA (IEC/EN 60898)				
2	FAZ-PN-C2/1N 279154		12 off	
4	FAZ-PN-C4/1N 279155			
6	FAZ-PN-C6/1N 279156			
10	FAZ-PN-C10/1N 279157			
13	FAZ-PN-C13/1N 279158			
16	FAZ-PN-C16/1N 279159			
20	FAZ-PN-C20/1N 279160			
25	FAZ-PN-C25/1N 279161			
32	FAZ-PN-C32/1N 279162			
40	FAZ-PN-C40/1N 279163			



Miniature circuit-breaker for DC application

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FAZ...-DC



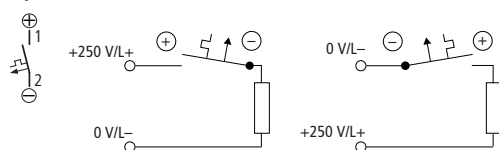
	1 pole			2 pole With 2 protected poles		
		Part no. Article no.	Price see price list		Part no. Article no.	Price see price list
Rated current			Std. pack			Std. pack
I_n						
A						
FAZ miniature circuit-breakers for DC applications Characteristic C Instantaneous release response current 5 ... $10 \times I_n$ Switching capacity 10 kA (IEC/EN 60947-2) (L/R = 4 ms) Rated voltage 250 V DC per pole						
2	FAZ-C2/1-DC 279122		12 off	FAZ-C2/2-DC 279134		1 off
3	FAZ-C3/1-DC 279123			FAZ-C3/2-DC 279135		
4	FAZ-C4/1-DC 279124			FAZ-C4/2-DC 279136		
6	FAZ-C6/1-DC 279125			FAZ-C6/2-DC 279137		
10	FAZ-C10/1-DC 279126			FAZ-C10/2-DC 279138		
13	FAZ-C13/1-DC 279127			FAZ-C13/2-DC 279139		
16	FAZ-C16/1-DC 279128			FAZ-C16/2-DC 279140		
20	FAZ-C20/1-DC 279129			FAZ-C20/2-DC 279141		
25	FAZ-C25/1-DC 279130			FAZ-C25/2-DC 279142		
32	FAZ-C32/1-DC 279131			FAZ-C32/2-DC 279143		
40	FAZ-C40/1-DC 279132			FAZ-C40/2-DC 279144		
50	FAZ-C50/1-DC 279133			FAZ-C50/2-DC 279145		
Accessories Auxiliary contacts → 16/17 Voltage releases Mounting accessories → 16/18 1 pole Depth 71 mm Width 17.5 mm 2-pole; 1N-pole Depth 71 mm Width 35 mm						
 						

Note

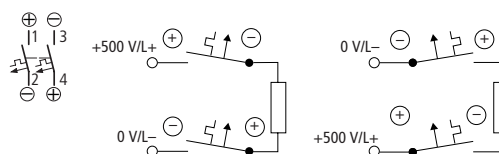
Circuit design notes

Note polarity!

1 pole



2 pole





AZ

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1 pole



Rated current

I_n

A

Part no.
Article no.

Price
see price
list

Std. pack

2 pole

With 2 protected poles



Part no.
Article no.

Price
see price
list

Std. pack

3 pole

With 3 protected poles



Part no.
Article no.

Price
see price
list

Std. pack

Miniature circuit-breakers AZ

Characteristic C
Instantaneous release
response current 5 ... 10
 $\times I_n$ Switching capacity
15 ... 25 kA (IEC/EN
60947-2)

20

AZ-C20
211769

12 off

AZ-2-C20
211770

2 off

AZ-3-C20
211771

1 off

25

AZ-C25
211774

AZ-2-C25
211775

AZ-3-C25
211776

32

AZ-C32
211779

AZ-2-C32
211780

AZ-3-C32
211781

40

AZ-C40
211784

AZ-2-C40
211785

AZ-3-C40
211786

50

AZ-C50
211789

AZ-2-C50
211790

AZ-3-C50
211791

63

AZ-C63
211794

AZ-2-C63
211795

AZ-3-C63
211796

80

AZ-C80
211799

AZ-2-C80
211800

AZ-3-C80
211801

100

AZ-C100
211804

AZ-2-C100
211805

AZ-3-C100
211806

125

AZ-C125
211809

AZ-2-C125
211810

AZ-3-C125
211811

Characteristic D
Instantaneous release
response current 10 ...
 $20 \times I_n$ Switching
capacity 15 ... 25 kA
(IEC/EN 60947-2)

50

AZ-D50
211814

12 off

AZ-2-D50
211815

2 off

AZ-3-D50
211816

1 off

63

AZ-D63
211818

AZ-2-D63
211819

AZ-3-D63
211820

80

AZ-D80
211822

AZ-2-D80
211823

AZ-3-D80
211824

100

AZ-D100
211826

AZ-2-D100
211827

AZ-3-D100
211828

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4 pole

With 4 protection poles



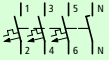
Part no.
Article no.

Price
see price list

Std. pack

4 pole

With 3 protection poles, N switching
with poles



Part no.
Article no.

Price
see price list

Std. pack

Notes

AZ-4-C20
211772

1 off

AZ-3N-C20
211773

1 off

AZ-4-C25
211777

AZ-3N-C25
211778

AZ-4-C32
211782

AZ-3N-C32
211783

AZ-4-C40
211787

AZ-3N-C40
211788

AZ-4-C50
211792

AZ-3N-C50
211793

AZ-4-C63
211797

AZ-3N-C63
211798

AZ-4-C80
211802

AZ-3N-C80
211803

AZ-4-C100
211807

AZ-3N-C100
211808

AZ-4-C125
211812

AZ-3N-C125
211813

AZ-3N-D50
211817

1 off

AZ-3N-D63
211821

AZ-3N-D80
211825

AZ-3N-D100
211829

For switching capacity refer to Technical
Data

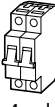
Accessories

Auxiliary contacts, Volta- → 16/17
ge releases

Mounting accessories → 16/18

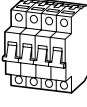
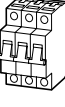
1 pole
Depth 75 mm
Width 27 mm

2 pole
Depth 75 mm
Width 54 mm



3 pole
Depth 75 mm
Width 81 mm

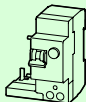
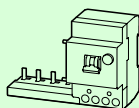
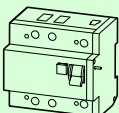
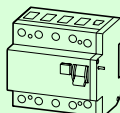
4-pole; 3N-pole
Depth 75 mm
Width 108 mm



AZ

Miniature circuit-breakers
Residual-current circuit-breakers



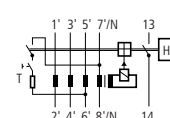
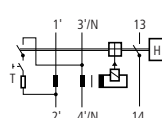
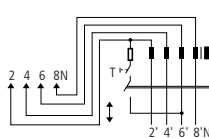
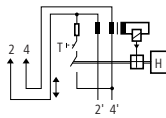
Rated uninterrupted current I_u A	2 pole 		Std. pack	4 pole 		Std. pack
	Part no. Article no.	Price see price list		Part no. Article no.	Price see price list	
Residual-current protective modules for FAZ						
Rated fault current $I_{\Delta N} = 30$ mA	40	FIM-40/2/0,03-A 278510	1 off	FIM-40/4/0,03-A 278514		1 off
	63	FIM-63/2/0,03-A 278512	1 off	FIM-63/4/0,03-A 278516		1 off
Rated fault current $I_{\Delta N} = 300$ mA	40	FIM-40/2/0,3-A 278511	1 off	FIM-40/4/0,3-A 278515		1 off
	63	FIM-63/2/0,3-A 278513	1 off	FIM-63/4/0,3-A 278517		1 off
Rated uninterrupted current I_u A	2 pole 		Std. pack	4 pole 		Std. pack
	Part no. Article no.	Price see price list		Part no. Article no.	Price see price list	
Residual-current protective modules for AZ						
Rated fault current $I_{\Delta N} = 30$ mA	80			AZFIMP-4-80-0,03 255484		1 off
	125			AZFIMP-4-125-0,03 255488		1 off
Rated fault current $I_{\Delta N} = 300$ mA	80	AZFIMP-2-80-0,3 255477	1 off	AZFIMP-4-80-0,3 255485	AZFIMS-4-80-0,3 255492	1 off
	125	AZFIMP-2-125-0,3 255481	1 off	AZFIMP-4-125-0,3 255489	AZFIMS-4-125-0,3 255495	1 off

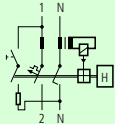
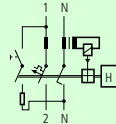
Notes

FIM-.../2/...

FIM-.../4/...

AZFIMP-2-...

AZFIMP-4-...
AZFIMS-4-...

		2 pole	2 pole	
				
Rated current		Part no. Article no.	Part no. Article no.	Std. pack
I_n				
A		Rated fault current $I_{\Delta N} = 30 \text{ mA}$	Rated fault current $I_{\Delta N} = 300 \text{ mA}$	
PKNM combination switch, type A				
Characteristic B Switching capacity 10 kA	6	PKNM-6/1N/B/003-A-DW 238580	PKNM-6/1N/B/03-A-DW 238582	1 off
	10	PKNM-10/1N/B/003-A-DW 238640	PKNM-10/1N/B/03-A-DW 238642	
	13	PKNM-13/1N/B/003-A-DW 238701	PKNM-13/1N/B/03-A-DW 238703	
	16	PKNM-16/1N/B/003-A-DW 238773	PKNM-16/1N/B/03-A-DW 238775	
	20	PKNM-20/1N/B/003-A-DW 238807	PKNM-20/1N/B/03-A-DW 238809	
	25	PKNM-25/1N/B/003-A-DW 238837	PKNM-25/1N/B/03-A-DW 238839	
	32	PKNM-32/1N/B/003-A-DW 238867	PKNM-32/1N/B/03-A-DW 238869	
	40	PKNM-40/1N/B/003-A-DW 238896	PKNM-40/1N/B/03-A-DW 238898	
Characteristic C Switching capacity 10 kA	6	PKNM-6/1N/C/003-A-DW 238590	PKNM-6/1N/C/03-A-DW 238592	
	10	PKNM-10/1N/C/003-A-DW 238650	PKNM-10/1N/C/03-A-DW 238652	
	13	PKNM-13/1N/C/003-A-DW 238713	PKNM-13/1N/C/03-A-DW 238715	
	16	PKNM-16/1N/C/003-A-DW 238785	PKNM-16/1N/C/03-A-DW 238787	
	20	PKNM-20/1N/C/003-A-DW 238817	PKNM-20/1N/C/03-A-DW 238819	
	25	PKNM-25/1N/C/003-A-DW 238847	PKNM-25/1N/C/03-A-DW 238849	
	32	PKNM-32/1N/C/003-A-DW 238877	PKNM-32/1N/C/03-A-DW 238879	
	40	PKNM-40/1N/C/003-A-DW 238906	PKNM-40/1N/C/03-A-DW 238908	





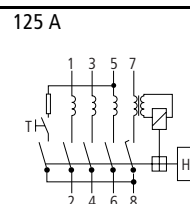
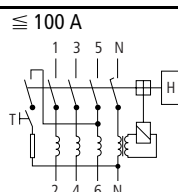
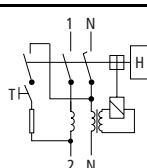
FI...-A

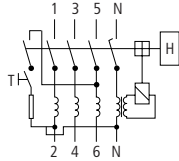
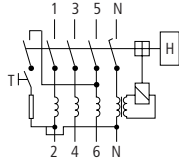
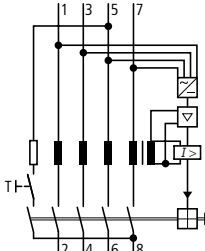
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		2 pole 				4 pole 			
	Rated uninterrupted current I_u	Part no. Article no.	Price see price list	Std. pack	Part no. Article no.	Price see price list	Std. pack		
	A								
Residual current device F1, Type A									
Rated fault current $I_{\Delta N} = 30 \text{ mA}$	16	FI-16/2/003-A 279183		1 off					
	25	FI-25/2/003-A 279184		1 off	FI-25/4/003-A 279213		1 off		
	40	FI-40/2/003-A 279187		1 off	FI-40/4/003-A 279217				
	63				FI-63/4/003-A 279221				
	80				FI-80/4/003-A 279225				
	100				FI-100/4/003-A/- 102936				
	125				FI-125/4/003-A 279165				
Rated fault current $I_{\Delta N} = 100 \text{ mA}$	25	FI-25/2/01-A 279185		1 off	FI-25/4/01-A 279214		1 off		
	40	FI-40/2/01-A 279188		1 off	FI-40/4/01-A 279218				
	63				FI-63/4/01-A 279222				
Rated fault current $I_{\Delta N} = 300 \text{ mA}$	25	FI-25/2/03-A 279186		1 off	FI-25/4/03-A 279215		1 off		
	40	FI-40/2/03-A 279189		1 off	FI-40/4/03-A 279219				
	63				FI-63/4/03-A 279223				
	80				FI-80/4/03-A 279226				
	100				FI-100/4/03-A/- 102937				
	125				FI-125/4/03-A 279167				
Rated fault current $I_{\Delta N} = 500 \text{ mA}$	25				FI-25/4/05-A 279216		1 off		
	40				FI-40/4/05-A 279220				
	63				FI-63/4/05-A 279224				
	80				FI-80/4/05-A 279227				
	100				FI-100/4/05-A/- 102938				
	125				FI-125/4/05-A 279169				

Notes



		4 pole			
					
Rated uninterrupted current I_u		Part no. Article no.	Price see price list	Std. pack	Notes
A					
Suitable for frequency inverters, type U					
Rated fault current $I_{\Delta N} = 100$ mA	40	FI-40/4/01-U 279234		1 off	
	63	FI-63/4/01-U 279236			
Rated fault current $I_{\Delta N} = 300$ mA	40	FI-40/4/03-U 279235			
	63	FI-63/4/03-U 279237			
Selective and surge-proof 5 kA, type S/A					
Rated fault current $I_{\Delta N} = 100$ mA	63	FI-63/4/01-S/A 279228		1 off	
Rated fault current $I_{\Delta N} = 300$ mA	63	FI-63/4/03-S/A 279229			
		FI-80/4/03-S/A 279230			
Sensitive to AC/DC, B type					
Rated fault current $I_{\Delta N} = 30$ mA	40	FI-40/4/003-B 240710		1 off	 For us in 50 Hz AC current systems with electrical equipment such as frequency inverters, UPS systems of switched-mode power supplies. During a malfunction electrical equipment can cause AC fault currents and pulsed DC fault currents as well as smooth pulsating d.c. fault current, where RCCB's of type C will not trip. The residual current devices FI-B detects all fault current types in accordance with the tripping characteristic B of the IEC 60755, i.e. even pulsating d.c. fault current • Caution: In some countries the insurance companies place special demands on RCCS's. • Contact position display red-green • Position independent function • Trip occurs independent of the mains voltage (currents type AC and A) • 30 V AC necessary for detection of type B current • Mains connection side top • Type S/B 40 ms delay and selective switch off • Auxiliary contacts on request
	63	FI-63/4/003-B 240711			
	80	FI-80/4/003-B 240712			
	125 ¹⁾	FI-125/4/003-B 240717			
Rated fault current $I_{\Delta N} = 100$ mA	40	FI-40/4/01-B 279170			
	63	FI-63/4/01-B 279171			
	80	FI-80/4/01-B 279172			
	125 ¹⁾	FI-125/4/01-B 240722			
Rated fault current $I_{\Delta N} = 300$ mA	40	FI-40/4/03-B 279173			
	63	FI-63/4/03-B 279174			
	80	FI-80/4/03-B 279175			
	125 ¹⁾	FI-125/4/03-B 240727			
AC/DC, selective, B type					
Rated fault current $I_{\Delta N} = 300$ mA	40	FI-40/4/03-S/B 281022		1 off	
	63	FI-63/4/03-S/B 281023			
	80	FI-80/4/03-S/B 281024			

Notes

¹⁾ Neutral pole right, at 125 A neutral pole on left



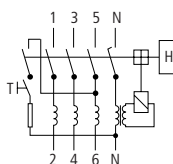
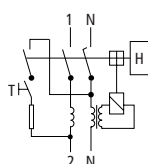

FI

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		2 pole		4 pole		4 pole Selective and surge-proof 5 kA	
							
Rated uninterrupted current I_u		Part no. Article no.	Price see price list	Std. pack	Part no. Article no.	Price see price list	Std. pack
A							
FI residual-current circuit-breakers, only for export (AC type)							
Rated fault current $I_{\Delta N}$ = 30 mA	16	FI-16/2/003 279176		1 off			
	25	FI-25/2/003 279177			FI-25/4/003 279196		1 off
	40	FI-40/2/003 279180			FI-40/4/003 279200		
	63	FI-63/2/003 279190			FI-63/4/003 279204		
	80	FI-80/2/003 279192			FI-80/4/003 279208		
Rated fault current $I_{\Delta N}$ = 100 mA	25	FI-25/2/01 279178		1 off	FI-25/4/01 279197		1 off
	40	FI-40/2/01 279181			FI-40/4/01 279201		
	63	FI-63/2/01 279191			FI-63/4/01 279205	FI-63/4/01-S 279210	1 off
	80	FI-80/2/01 279193			FI-80/4/01 279231		
Rated fault current $I_{\Delta N}$ = 300 mA	25	FI-25/2/03 279179		1 off	FI-25/4/03 279198		1 off
	40	FI-40/2/03 279182		1 off	FI-40/4/03 279202		
	63				FI-63/4/03 279206	FI-63/4/03-S 279211	1 off
	80				FI-80/4/03 279209	FI-80/4/03-S 279212	1 off
Rated fault current $I_{\Delta N}$ = 500 mA	25				FI-25/4/05 279199		
	40				FI-40/4/05 279203		
	63				FI-63/4/05 279207		

Notes



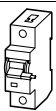
Auxiliary contacts, voltage releases, MCB lock

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FAZ-X, AZ-X, FIP-X



			Contacts	Contact sequence	Space units 1 SU = 18 mm	Part no. Article no.	Price see price list	Std. pack
			Number		SU			
Auxiliary contacts and voltage releases								
Auxiliary contacts for FAZ, AZ, PKNM								
	FAZ PKNM	Up to 63 A	1 N/O/1 N/C		0.5	FAZ-XHIN11 286054		10 off
			1 C/O		0.5	FAZ-XHINW1 286055		10 off
	AZ	Up to 125 A	1 N/O/1 N/C		0.5	AZ-XHI11 212067		10 off
Trip-indicating auxiliary contact for FAZ, PKNM ¹⁾								
	FAZ PKNM	Up to 63 A	2 C/O		0.5	FAZ-XAM002 262414		10 off
Auxiliary contact for FI								
	FI	Up to 100 A	1 N/O/1 N/C		0.5	FIP-XHI11 225121		10 off
	FI ²⁾	From 125 A and Type B	1 N/O/1 N/C		0.5	FIPA-XAM011 262578		10 off
Shunt releases for FAZ, AZ, PKNM								
	FAZ PKNM	Up to 63 A			1	FAZ-XAA-C-12-110VAC 278518		10 off
	FAZ PKNM	Up to 63 A			1	FAZ-XAA-C-110-415VAC 278519		10 off
	AZ	Up to 125 A			1.5	AZ-XAA(110-415VAC) 212059		10 off
	AZ	Up to 125 A			1.5	AZ-XAA(12-60VAC) 212061		10 off
Undervoltage releases for FAZ								
	FAZ				1	FAZ-XUA(115VAC) 212049		10 off
	FAZ				1	FAZ-XUA(230VAC) 212051		10 off
	FAZ				1	FAZ-XUA(400VAC) 212053		10 off
Lockout device for FAZ/FIP								
				—		IS/SPE-1TE 101911		10 off

Notes

¹⁾ The device is supplied with the groove in the yellow selector button in the horizontal: Changeover contact 4.11 ... 4.12/4.14 switches when tripped manually or electrically. Turning the yellow selector button by 90° results in contact 4.11 ... 4.12/4.14 responding only to electrical tripping: the contact 4.11 ... 4.12/4.14 remains closed when tripped by hand.

²⁾ The device is supplied with the "Auxiliary contact" function set such that both contacts switch on manual and electrical tripping. A change of function to "Signalling switch" means that both contacts switch **only** under fault conditions.

AC-11, 230 V DC/6 A

DC-11, 230 V DC/1 A

Minimum voltage: 12 V AC/DC

Minimum current: 100 mA

Terminal capacity: 1 × 2.5 mm², 2 × 1.5 mm²

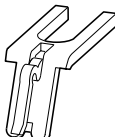
Max. tightening torque: 0.8 Nm





	Phases Number	Devices Number	Part no. Article no.	Price see price list	Std. pack	Notes
Euro-Vario busbars (fork connector)						
For FAZ..., FI...						
• 16 mm²						
• No end covers required						
• do not shorten						
	1	2	EVG-16/1PHAS/2MODUL 291464		40 off	
	1	6	EVG-16/1PHAS/6MODUL 291465			
	1	12	EVG-16/1PHAS/12MODUL 291466			
	2	4	EVG-16/2PHAS/4MODUL 291467			
	2	6	EVG-16/2PHAS/6MODUL 291468			
	2	12	EVG-16/2PHAS/12MODUL 291469			
	3	6	EVG-16/3PHAS/6MODUL 291470			
	3	9	EVG-16/3PHAS/9MODUL 291471			
	3	12	EVG-16/3PHAS/12MODUL 291472			
	3	16	EVG-16/3PHAS/16MODUL 291473			
	3	20	EVG-16/3PHAS/20MODUL 291474			
	4	8	EVG-16/4PHAS/8MODUL 291475			
	4	12	EVG-16/4PHAS/12MODUL 291476			
For combined use of 4 pole residual-current-operated circuit-breakers with circuit-breakers						
	3	4 + 5	EVG-16/3PHAS/N/5MODUL/LS 291477			
	3	4 + 8	EVG-16/3PHAS/N/8MODUL/LS 291478			
For use with auxiliary contacts						
	1	2	EVG-16/1PHAS/2MODUL/HI 291479			
	1	6	EVG-16/1PHAS/6MODUL/HI 291480			
	1	9	EVG-16/1PHAS/9MODUL/HI 291481			
	2	2	EVG-16/2PHAS/4MODUL/HI 291482			
	2	3	EVG-16/2PHAS/6MODUL/HI 291483			
	2	5	EVG-16/2PHAS/10MODUL/HI 291484			
	3	2	EVG-16/3PHAS/6MODUL/HI 291485			
	3	4	EVG-16/3PHAS/12MODUL/HI 291486			
	3 × 1	6	EVG-16/3X1PHAS/6MODUL/HI 291487			
	3 × 1	8	EVG-16/3X1PHAS/8MODUL/HI 291488			
	3 × 1	9	EVG-16/3X1PHAS/9MODUL/HI 291489			

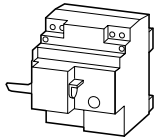


	Rated operational current I_e A	No. of poles	Cross-section mm ²	Length m	Part no. Article no.	Price see price list	Std. pack
Mounting accessories							
1-phase, 80 A	80	1	16	1	Z-GV-16/1P-1TE 271061		50 off
3-phase, 63 A	63	3	10	1	Z-GV-10/3P-3TE 271060		20 off
End caps for Z-GV-10/3P-3ST	–	3	10	–	Z-AK-10/2+3P 271069		10 off
	80	3	16	1	Z-GV-16/3P-3TE 271064		20 off
	–	3	16	–	Z-AK-16/2+3P 271070		10 off
	80	4	16	1	Z-GV-16/3P+N-4TE 271066		15 off
	–	4	16	–	Z-AK-16/4P 271071		10 off
Feeder block							
With end feeder max. 80 A with center feeder max. 125 A	–	–	1 × 25 1 × 50	–	FAZ/FIP-XVS-KL 212109		12 off
Incoming terminals							
4,3 Nm, touch-proof busbar connection to miniature circuit-breaker	–	–	25	–	FAZ-XK25 212116		50 off
M5: 3.0 Nm, M8: 4.3 Nm Touch-proof connection to FAZ-XIS... busbar	–	–	35	–	FAZ-XK35 212119		10 off
Protective covers							
For shrouding unused terminals on the busbar	–	–		–	ZV-BS-G 104903		1 off
Bracket for securing the covers 2 off required per group of MCB's	–	–		–	REG-BB 212106		20 off
		Rated operational current I_e A		Length m	Part no. Article no.	Price see price list	Std. pack
Extension terminals, 80 A							
Same extension terminal, turned by 180°							
	L1, N	80		–	ZV-L1/N-80A-10 263950		10 off
	L1, N	80		–	ZV-L1/N-80A-36 263951		36 off
	L1, N	80		–	ZV-L1/N-80A-100 263952		100 off
	L2, L3	80		–	ZV-L2/L3-80A-10 263953		10 off
	L2, L3	80		–	ZV-L2/L3-80A-36 263954		36 off
	L2, L3	80		–	ZV-L2/L3-80A-100 263955		100 off
Busbars							
1m long.							
		50		1	ZV-SS 263956		10 off
		80		1	ZV-SS-80A 263957		10 off
Shroud section							
1m long, for 50 and 80 A.							
		–		–	ZV-ADP 263958		100 off
End cap for shroud							
		–		–	ZV-AEK 263959		10 off



Remote switching modules

- IEC/EN 60669-2-2
- For remote switching and automatic miniature circuit-breakers FAZ and residual current devices FI up to 80 A with the exception of type B
- Mechanically lockable and sealable
- Operating and alarm display via LED
- Mechanical switching capability up to FAZ-...63 or FI-80... with the exception of type B (-XF5M)
- ...25 °C/+40 °C
- Rated operational voltage 24 ... 240 V AC, 24 ... 48 V DC
- Terminal capacity 2 × 1.5 mm², 1 × 2.5 mm²; 0.4 Nm
- Mechanical/electrical life 10,000 switching operations
- Power consumption 5 W



220 ... 240 V AC

FAZ/FIP-XAWM
262514

1 off

48 V DC

FAZ/FIP-XDWM
274404

1 off

Remote test module

- External test module with test resistor for RCCB devices
- Version adapted for rated fault currents with stipulated "external" test button function

0.01 A

Z-FW/001
248297

4 off

0.03 A

Z-FW/003
248298

4 off

0.1 A

Z-FW/010
248299

4 off

0.3 A

Z-FW/030
248300

4 off

0.5 A

Z-FW/050
248301

4 off

	Pole	Rated operational current I_e	Rated operational voltage U_e	Fuse cartridge	Part no. Article no.	Price see price list	Std. pack	Notes
	A		V AC	Size				
	1 pole	16	—	D01	D01-SO/16/1 102752		1 off	Equipment supplied: Empty, without screw on cover
	1 pole	63	—	D02	D02-SO/63/1 102675		1 off	
	3 pole	16	—	D01	D01-SO/16/3 102674		1 off	
	3 pole	63	—	D02	D02-SO/63/3 102676		1 off	

	For use with	Terminal capacity for round conductor mm ²	Part no. Article no.	Price see price list	Std. pack	Notes
Covers for 1-pole fuse bases						
Standard dimension 45 mm						
	S...-1/...	–	P-E14 086182		20 off	
	S...-1/...	–	P-E18 088555		20 off	
	S...-1/...	–	P-E27 090928		10 off	
	S...-1/...	–	P-E33 093301		10 off	
Transparent shroud						
With cable entry knockouts top and bottom						
	–	–	H-S27-1 029118		10 off	
Busbar connector 63 A						
For fuse bases, 3 pole						
	D0.../3	–	Z-SV-16/3P 271072		20 off	
Cover						
For busbar block						
	Z-SV-16/3P	–	Z-AK-16/2+3P 271070		10 off	
Notched phase busbars, can be cut to length						
For gauge ring (gauge screw: /FORMP)						
	S14-1/C		KS14 050502		5 off	
990 mm long, for max. 36 fuse bases, rated current 100 A						
	S18-1/C		KS18 052875		5 off	
990 mm long, for max. 36 fuse bases, rated current 160 A						
	S27-1/C		KS27 055248		5 off	
980 mm long, for max. 22 fuse bases, rated current 100 A						
	S33-1/C		KS33 059994		5 off	
960 mm long, for max. 18 fuse bases, rated current 160 A						
Terminals						
For gauge ring (gauge screw: /FORMP)						
For round conductors up to 35 mm ² or flat conductors 6 × 9 × 0.8						
	KS14 – KS33		K35-AB 064339		20 off	
For retrofitting as PE/N terminal						
	S27/1	○ 1.5 – 6	K6/1 002270		100 off	Terminal capacity ○ solid ⊙ stranded ⊗ flexible with ferrule
	S33/1	○ 4 ... 16 ⊙ 4 ... 16 ⊗ 4 ... 10	K16/1 002272		25 off	

Dimensions (W × H × D)	Rated operational current I_e	Cu factor	Part no. Article no.	Price see price list	Std. pack
mm	A				
Busbars					
Flat copper busbars, tinned					
12 x 5 Supplied in lengths of 1500 mm	160	0,81	CU12X5 034121		10 off
20 x 5 Supplied in lengths of 1500 mm	250	1,34	CU20X5 044092		10 off
20 x 10 Supplied in lengths of 1500 mm	400	2,68	CU20X10 041719		5 off



Ordering

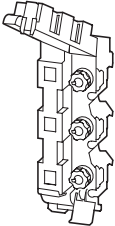
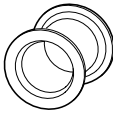
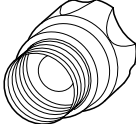
Busbar mounting switch-disconnector

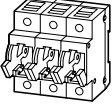
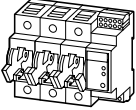
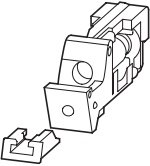


D02, Z-D0...

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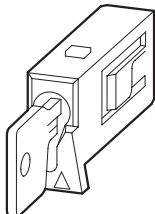
<http://catalog.moeller.net>

	Fuse cartridge	Rated uninterrupted current	Part no.	Price	Std. pack
	Size	I_u A	Article no.	see price list	
Busbar mounting switch-disconnector With fuses D02-S/63/3-RS for 60 mm distance between busbar centres • 3 pole, 36 mm • Supplied empty and without screw on cover 	D02	max. 63	D02-S/63/3-RS 284649		1 off
Fuses, utilisation class gG (gL) • Snap-fit on DIN rail • in a plastic box in the colour of the indicator 	D01	2	Z-D01/SE-2 288934		12 off
		4	Z-D01/SE-4 288935		12 off
		6	Z-D01/SE-6 288936		12 off
		10	Z-D01/SE-10 288937		12 off
		13	Z-D01/SE-13 288938		12 off
		16	Z-D01/SE-16 288939		12 off
	D02	20	Z-D02/SE-20 288940		12 off
		25	Z-D02/SE-25 288941		12 off
		32	Z-D02/SE-32 288942		12 off
		35	Z-D02/SE-35 288943		12 off
		40	Z-D02/SE-40 288944		12 off
		50	Z-D02/SE-50 288945		12 off
		63	Z-D02/SE-63 288946		12 off
Gauge ring • D01 for fuse base D02 and fuse switch-disconnector D02 • Snap-fit on DIN rail • in a plastic box in the colour of the indicator 	D01	2	Z-D01/PE-2 288909		12 off
		4	Z-D01/PE-4 288910		12 off
		6	Z-D01/PE-6 288911		12 off
		10, 13	Z-D01/PE-10 288912		12 off
	D02	20	Z-D02/PE-20 288913		12 off
		25	Z-D02/PE-25 288914		12 off
		35, 32	Z-D02/PE-35 288915		12 off
		40	Z-D02/PE-40 288916		12 off
		50	Z-D02/PE-50 288917		12 off
• D01 for fuse base D02 and fuse switch-disconnector D02 • Snap-fit on DIN rail • in a plastic box in the colour of the indicator	D02-D01	2	Z-D02-D01/PE-2 263112		12 off
		4	Z-D02-D01/PE-4 263113		12 off
		6	Z-D02-D01/PE-6 263150		12 off
		10, 13	Z-D02-D01/PE-10 263151		12 off
		16	Z-D02-D01/PE-16 263152		12 off
Screw cap 	D01	max. 16	Z-D01/SK 100650		1 off
	D02	max. 63	Z-D02/SK 100651		1 off
Spring • For inserting D01 fuses links in the screw cap Z-D02/SK 	D02-D01		Z-D02/SIKA-HF 263149		50 off

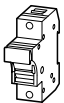
	Pole	Rated uninterrupted current I_u	Fuse cartridge Size	Part no. Article no.	Price see price list	Std. pack
fuse switch-disconnector						
Standard, empty 	1	max. 63	D02, D01	Z-SLS/NEOZ/1 248235		12 off
	1 + N			Z-SLS/NEOZ/1+N 248237		6 off
	2			Z-SLS/NEOZ/2 248233		6 off
	3			Z-SLS/NEOZ/3 248234		4 off
	3 + N			Z-SLS/NEOZ/3+N 248236		3 off
With fuse monitoring, empty 	1 + HS			Z-SLK/NEOZ/1 248238		6 off
	1 + N + HS			Z-SLK/NEOZ/1+N 248242		4 off
	2 + HS			Z-SLK/NEOZ/2 248239		4 off
	3 + HS			Z-SLK/NEOZ/3 248240		3 off
	3 + N + HS			Z-SLK/NEOZ/3+N 248241		2 off
Security sets						
• For Z-SLS/NEOZ, Z-SLK/NEOZ, Z-SLS/CEK • With flashing function • Snap-fit on DIN rail • 1 set consists of: 3 fuse links, 3 current codings, 1 plastic box in the colour of the indicator 						
Rated operational voltage 24 V AC/ DC	1			Z-SLS/B-24-1A 268994		12 off
	2			Z-SLS/B-24-2A 268995		12 off
	4			Z-SLS/B-24-4A 268996		12 off
	6			Z-SLS/B-24-6A 268997		12 off
	10			Z-SLS/B-24-10A 268998		12 off
	13			Z-SLS/B-24-13A 289975		12 off
	16			Z-SLS/B-24-16A 268999		12 off
	20			Z-SLS/B-24-20A 269000		12 off
	25			Z-SLS/B-24-25A 269001		12 off
	32			Z-SLS/B-24-32A 289976		12 off
	35			Z-SLS/B-24-35A 269002		12 off
	40			Z-SLS/B-24-40A 289977		12 off
	50			Z-SLS/B-24-50A 269003		12 off
	63			Z-SLS/B-24-63A 269004		12 off





		Rated uninterrupted current I_u	Fuse cartridge	Part no. Article no.	Price see price list	Std. pack
		A	Size			
Fuse sets						
Rated operational voltage 60 ... 400 V AC		1		Z-SLS/B-1A 268983		12 off
		2		Z-SLS/B-2A 268984		12 off
		4		Z-SLS/B-4A 268985		12 off
		6		Z-SLS/B-6A 268986		12 off
		10		Z-SLS/B-10A 268987		12 off
		13		Z-SLS/B-13A 289972		12 off
		16		Z-SLS/B-16A 268988		12 off
		20		Z-SLS/B-20A 268989		12 off
		25		Z-SLS/B-25A 268990		12 off
		32		Z-SLS/B-32A 289973		12 off
		35		Z-SLS/B-35A 268991		12 off
		40		Z-SLS/B-40A 289974		12 off
		50		Z-SLS/B-50A 268992		12 off
		63		Z-SLS/B-63A 268993		12 off
Disconnector kit						
- For Z-SLS/NEOZ, Z-SLK/NEOZ, Z-SLS/CEK - Snap-fit on DIN rail 1 set consists of: 3 switch conversion sets, 3 current codings, 1 plastic box - The fuse switch-disconnector is thus converted to a switch-disconnector.		63		Z-SLS/TR-SET 100660		1 off
Switch-on inhibits						
- For Z-SLS/NEOZ, Z-SLK/NEOZ, Z-SLS/CEK - Only 1 stop required per device						
	Stop with metal lock			Z-SLZ/SC 268980		12 off
	Stop with plastic lock			Z-SLZ/SP 268981		12 off
Incoming double terminal						
- For Z-SLS/NEOZ, Z-SLK/NEOZ, Z-SLS/CEK 2 × 3 × 35 mm²				Z-SLZ/KL 268982		15 off



	Pole	Part no. Article no.	Price see price list	Std. pack
Fuse switch-disconnectors, empty				
• For cylindrical fuses				
	Size 14 × 51, up to 50 A			
	Without flashing function			
	1	VLC14-1P 285361		12 off
	1 + N	VLC14-1P+N 285362		12 off
	2	VLC14-2P 285363		12 off
	3	VLC14-3P 285364		12 off
	3 + N	VLC14-3P+N 285365		12 off
	With flashing function			
	1	VLC14-1P/L 285371		12 off
	1 + N	VLC14-1P+N/L 285372		12 off
	Size 22 × 58, up to 100 A			
	Without flashing function			
	1	VLC22-1P 285366		12 off
	1 + N	VLC22-1P+N 285367		12 off
	2	VLC22-2P 285368		12 off
	3	VLC22-3P 285369		12 off
	3 + N	VLC22-3P+N 285370		12 off
	With flashing function			
	1	VLC22-1P/L 285376		12 off
	1 + N	VLC22-1P+N/L 285377		12 off
	2	VLC22-2P/L 285378		12 off
	3	VLC22-3P/L 285379		12 off
	3 + N	VLC22-3P+N/L 285380		12 off





		Interval between busbar centres	Busbar size	Rated operational current I_e A	Max. fuse			Part no. Article no.	Price see price list	Std. pack
		mm	mm	A	500 V A	690 V A	Size			
Low-voltage h.b.c. fuse bases										
3-pole										
	—	—	—	160	160	100	NH00	GS00-160 026741		1 off
	—	—	—	250	250	200	NH1	GSU1 289016		1 off
	—	—	—	400	400	315	NH2	GSU2 289017		1 off
	—	—	—	630	630	500	NH3	GSU3 289018		1 off
Low-voltage h.b.c. fuse switch-disconnectors										
for fitting to mounting plate, MR25										
	1 pole Without hand guard	—	—	160	160	100	NH00	GSTA00-160-1P¹⁾ 225000		1 off
	3 pole Without hand guard	—	—	160	160	100	NH00	GSTA00-160 095558		1 off
		—	—	250	250	200	NH1	GSTA1 017250		1 off
		—	—	400	400	315	NH2	GSTA2 021996		1 off
		—	—	630	630	500	NH3	GSTA3 026742		1 off
For mounting on busbars, flat busbars										
3 pole										
	Without hand guard 3-pole	60	12 ... 30 × 5 ... 10	100	100		NH000	LTS-100/C00/3-R 284690		1 off
	Without hand guard Connection top and bottom	40/50/60	12 ... 30 × 5 ... 10	160	160	100	NH00	GST00-160-40-60-AOU 224550		1 off
For mounting on busbars										
3 pole										
With hand guard										
	Connection at bottom	60	20 ... 30 × 5 ... 10	250	250	200	NH1	GST1-AU 107251		1 off
				400	400	315	NH2	GST2-AU 107253		1 off
				630	630	500	NH3	GST3-AU 107255		1 off
	Connection at top			250	250	200	NH1	GST1-AO 107250		1 off
				400	400	315	NH2	GST2-AO 107252		1 off
				630	630	500	NH3	GST3-AO 107254		1 off

Notes

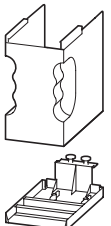
- ¹⁾ Can be fitted to GSTA00-160 for 4-pole low-voltage h.b.c. fuse switch-disconnector
Two devices can be combined to make a 2-pole low-voltage h.b.c. fuse switch-disconnector

	For use with	Part no. Article no.	Price see price list	Std. pack
Clip set				
Can be retrofitted, adjustable For latching on to two top-hat rails to IEC/EN 60715 (35 mm) For distances of 100 to 125 mm between busbar centres				
	GSTA00-160	C-GSTA00 040922		5 off
Sets of clamp-type terminals				
One set comprises 3 clamptype terminals				
	Terminal range 1 × (70 150) mm² Cu/Al	GSU1, GST...1	PSK1 038734	1 off
	Terminal range 1 70 150) mm² Cu/Al	GSU2, GST...2	PSK2 043480	1 off
	Terminal range 1 × (120 300) mm² Cu/Al	GSU3, GST...3	PSK3 048226	1 off
Sets of double clamp-type terminals				
One set comprises of 3 double clamptype terminals.				
	Terminal range 2 × (70 95) mm² Cu/Al	GSU1, GST...1	PSK12 041107	1 off
	Terminal range 2 × (120 150) mm² Cu/Al	GSU2, GST...2	PSK22 045853	1 off
	Terminal range 2 × (120 240) mm² Cu/Al	GSU3, GST...3	PSK32 050599	1 off
Hand guard for fuse switch-disconnectors				
Provides additional protection for the operator during actuation of the fuse-switch disconnector				
	GST00... GSTA00...	ZBS-GSTA00 014411		10 off
	GSTA1	ZBS-GSTA1 082800		10 off
	GSTA2	ZBS-GSTA2 082801		5 off
	GSTA3	ZBS-GSTA3 082802		1 off
Insulating surround for fuse switch-disconnectors				
For compensation between the GA... protective cover and the device (for use in the CI insulated distribution board system)				
	GST00	B-GST00-40-60/CI/1 224553		5 off





	Rated operational current I_e A	Fuse cartridge Size	Part no. Article no.	Price see price list	Std. pack
Low-voltage h.b.c. switch-fuse units NH-SLS, 3 pole • With connection area cover • Mounting without holes with spike type terminal Equipment supplied • NH-SLS-00/160(-SI): with spike-type terminal and clamp terminal • NH-SLS-00/160-60(-SI): with clamp terminal • NH-SLS Größen 1, 2, 3: without spike-type terminal, without clamp terminal Busbar mounting • For size 00: • NH-SLS-00/160(-SI) clearance 100 mm, mounting without holes or screw mounting • NH-SLS-00/160-60(-SI) clearance 60 mm, mounting without holes • Sizes 1, 2, 3: clearance 185 mm, mounting without holes or screw mounting					
	Without fuse monitoring	160	00	NH-SLS-00/160 106210	0 off
		160	00	NH-SLS-00/160-60 106211	
		250	1	NH-SLS-1/250 106212	
		400	2	NH-SLS-2/400 106213	
		630	3	NH-SLS-3/630 106214	
	With fuse monitoring	160	00	NH-SLS-00/160-SI 106215	
		160	00	NH-SLS-00/160-60-SI 106216	
		250	1	NH-SLS-1/250-SI 106217	
		400	2	NH-SLS-2/400-SI 106218	
		630	3	NH-SLS-3/630-SI 106219	
Adapter			Part no. Article no.	Price see price list	Std. pack
	Single adapter 100/185		Z-NH-SLS-00-SAD 106220		0 off
	Double adapter 100/185		Z-NH-SLS-00-SADD 106221		
	Single adapter 100/185 for mounting without holes		Z-NH-SLS-00-SAD-KR 106222		
Terminal shroud/size adapter to NH-SLS					
For NH-SLS-00/160			Z-NH-SLS-KA 106223		0 off
Claw-terminal					
	For connection at bottom		Z-NH-SLS-KRU 106224		0 off
	For connection at top		Z-NH-SLS-KRO 106225		
V terminals					
Up to 240 mm ² for stranded sector conductor, up to 300 mm ² for solid sector conductor					
	For size 1, 2		Z-NH-SLS-1+2-VAK 106226		0 off
	For size 3		Z-NH-SLS-3-VAK 106227		

	Transformer ratio K_N	Part no. Article no.	Price see price list	Std. pack
	A			
Termination expansion for 2 cable lugs				
	For size 1, 2	Z-NH-SLS-1+2-AE 106239		0 off
	For size 3	Z-NH-SLS-3-AE 106240		
Device carrier with DIN rail for terminals etc.				
	Cover	Z-NH-SLS-1+2+3-GTAB 106231		0 off
	Lower section	Z-NH-SLS-1+2+3-GT 106230		
Current transformer				
NH-SLS-00 • Fix on Z-NH-SLS-00-SAD... with fixing clip Z-NH-SLS-00BC. NH-SLS size 1, 2, 3 • Swing into the standard rail, no additional space requirement. • Mounting of spike type terminal still possible • Fix current transformer cables with fixing clip Z-NH-SLS-1+2+3-BC.				
	150/5	Z-WAS-150/5A-1 106232		0 off
	200/5	Z-WAS-200/5A-1 106233		
	250/5	Z-WAS-250/5A-1 106234		
	300/5	Z-WAS-300/5A-1 106235		
	400/5	Z-WAS-400/5A-1 106236		
	500/5	Z-WAS-500/5A-1 106237		
	600/5	Z-WAS-600/5A-1 106238		
Fixing clip				
	Fixing for current transformer on the busbar adapter in 185 mm busbar system (size 00)	Z-NH-SLS-00-BC 106229		0 off
	Fixing of the (current transformer) cables to the rear of the NH rails for sizes 1, 2, 3	Z-NH-SLS-1+2+3-BC 106228		0 off





FAZ, FI

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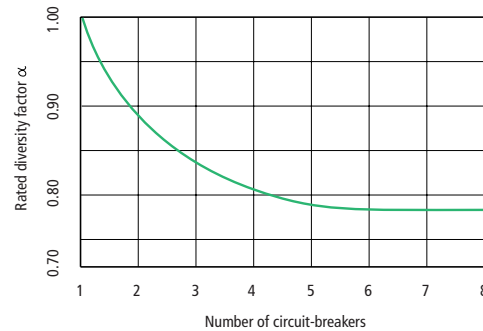
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Influence of the ambient temperature on the thermal trip behaviour

Corrected values of the rated current dependent on the ambient temperature

Ambient temperature T [°C]														
I_n [A]	-25	-20	-10	0	10	20	30	35	40	45	50	55	60	
0.16	0.20	0.19	0.19	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.15	0.14	0.14	
0.25	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22	
0.5	0.61	0.60	0.58	0.56	0.54	0.52	0.50	0.49	0.48	0.47	0.46	0.45	0.44	
0.75	0.92	0.90	0.87	0.84	0.81	0.78	0.75	0.74	0.73	0.71	0.69	0.68	0.66	
1	1.2	1.2	1.2	1.1	1.1	1.0	1.0	0.99	0.97	0.95	0.93	0.90	0.89	
1.5	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.3	
1.6	2.0	1.9	1.9	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.4	1.4	
2	2.4	2.4	2.3	2.2	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.8	1.8	
2.5	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.5	2.4	2.4	2.3	2.3	2.2	
3	3.7	3.6	3.5	3.4	3.3	3.1	3.0	3.0	2.9	2.8	2.8	2.7	2.7	
3.5	4.3	4.2	4.1	3.9	3.8	3.7	3.5	3.4	3.4	3.3	3.2	3.2	3.1	
4	4.9	4.8	4.7	4.5	4.3	4.2	4.0	3.9	3.9	3.8	3.7	3.6	3.5	
5	6.1	6.0	5.8	5.6	5.4	5.2	5.0	4.9	4.8	4.7	4.6	4.5	4.4	
6	7.3	7.2	7.0	6.7	6.5	6.3	6.0	5.9	5.8	5.7	5.6	5.4	5.3	
8	9.8	9.6	9.3	9.0	8.7	8.4	8.0	7.9	7.7	7.6	7.4	7.2	7.1	
10	12	12	12	11	11	10	10	9.9	9.7	9.5	9.3	9.0	8.9	
12	15	14	14	13	13	13	12	12	12	11	11	11	11	
13	16	16	15	15	14	14	13	13	13	12	12	12	12	
15	18	18	17	17	16	16	15	15	15	14	14	14	13	
16	20	19	19	18	17	17	16	16	15	15	15	14	14	
20	24	24	23	22	22	21	20	20	19	19	19	18	18	
25	31	30	29	28	27	26	25	25	24	24	23	23	22	
32	39	38	37	36	35	33	32	32	31	30	30	29	28	
40	49	48	47	45	43	42	40	39	39	38	37	36	35	
50	61	60	58	56	54	52	50	49	48	47	46	45	44	
63	77	76	73	71	68	66	63	62	61	60	58	57	56	

Load carrying capacity with side-by-side miniature circuit-breakers



Influence of the mains frequency

Influence of the mains frequency on the tripping behaviour I_{MA} of the instantaneous release

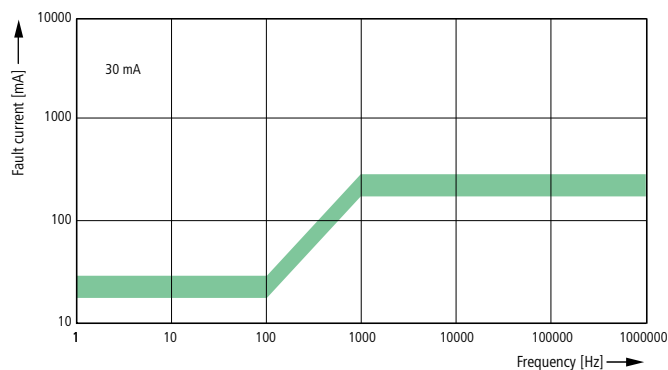
	Mains frequency f [Hz]						
	16 2/3	50	60	100	200	300	400
$I_{MA}(f)/I_{MA}(50 \text{ Hz})$ [%]	91	100	101	106	115	134	141

Residual-current circuit-breakers

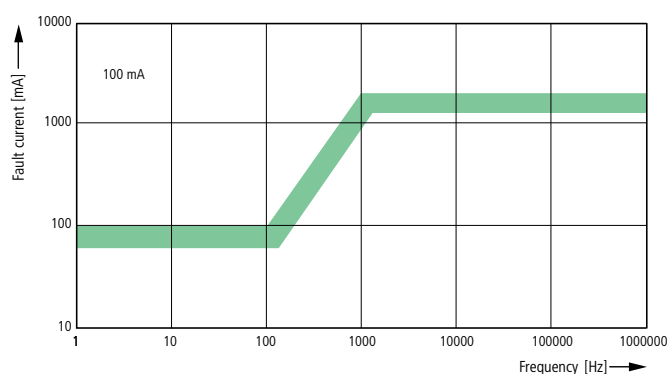
FI-...-B

Frequency response of the tripping current

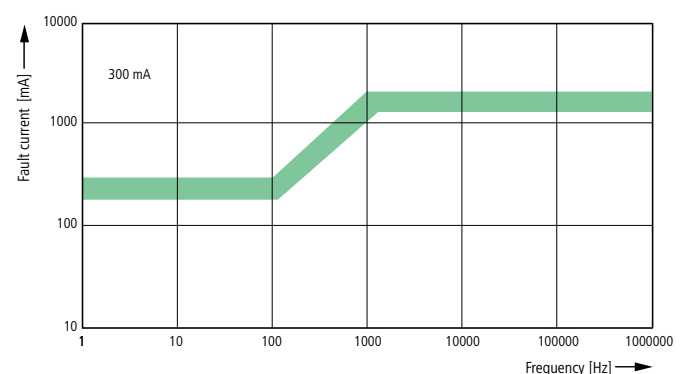
30 mA



100 mA



300 mA



Tripping characteristic for miniature circuit-breakers

<http://catalog.moeller.net>

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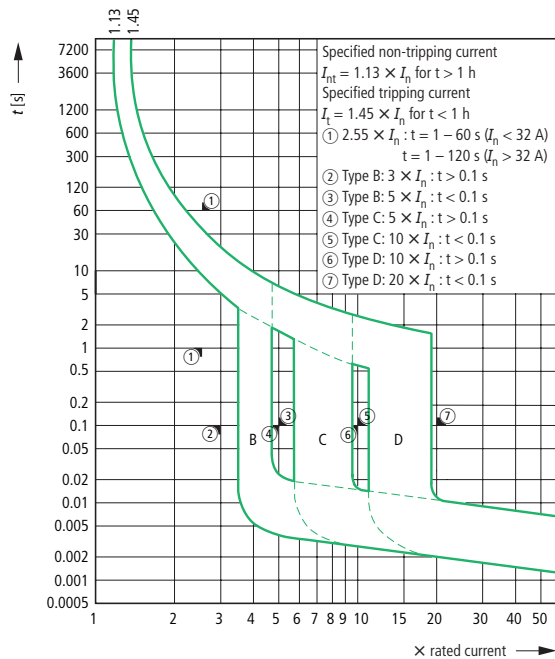
FAZ, AZ, PKNM



Miniature circuit-breakers

FAZ...

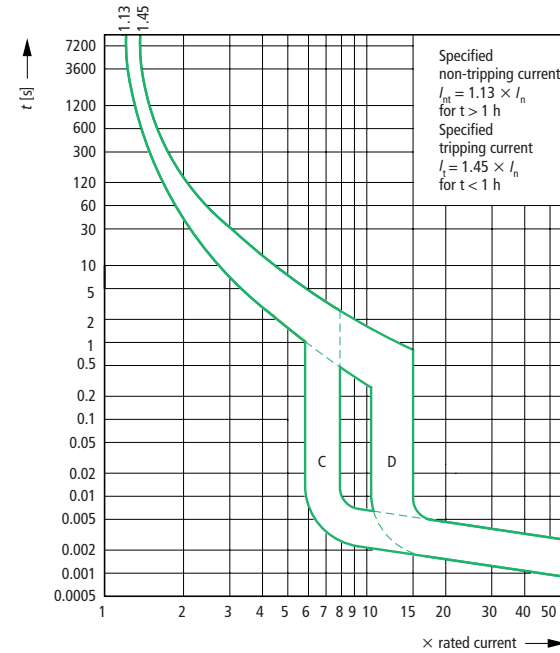
Tripping characteristic at 30 °C:
B, C, D to IEC/EN 60898



Miniature circuit-breakers

AZ...

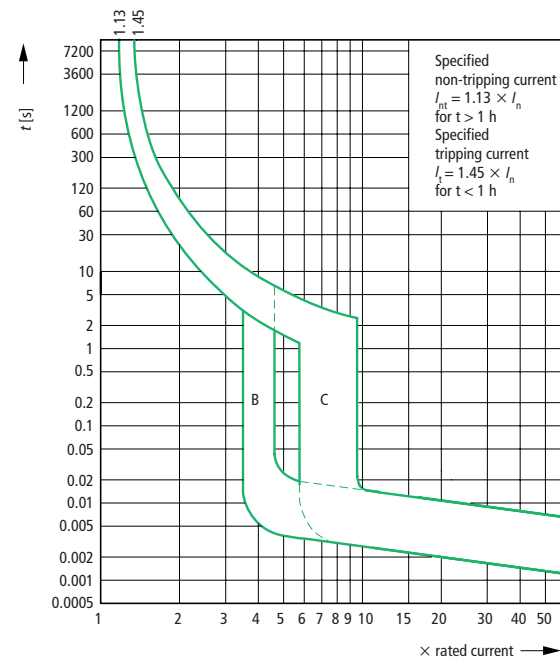
Tripping characteristic at 30 °C:
C, D according to IEC/EN 60898



Combined RCD/MCB devices

PKNM...

Tripping characteristic at 30 °C:
B, C according to IEC/EN 61009





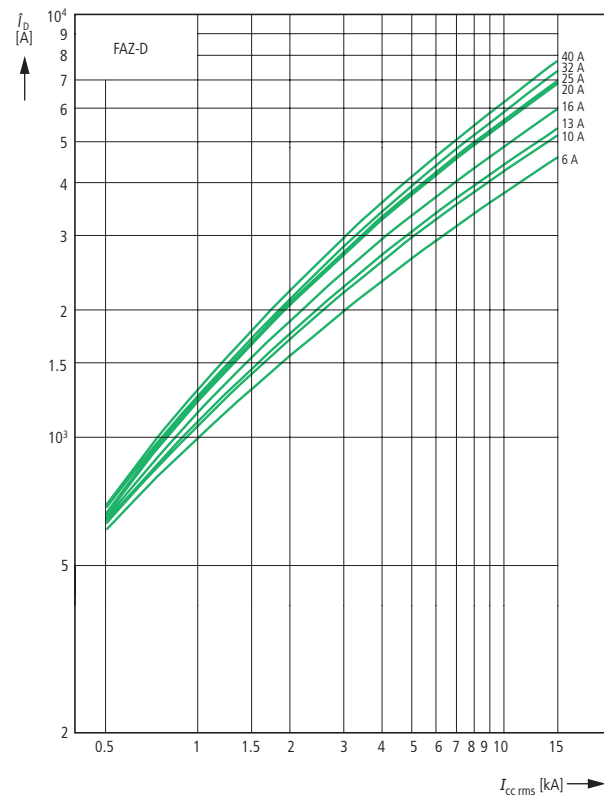
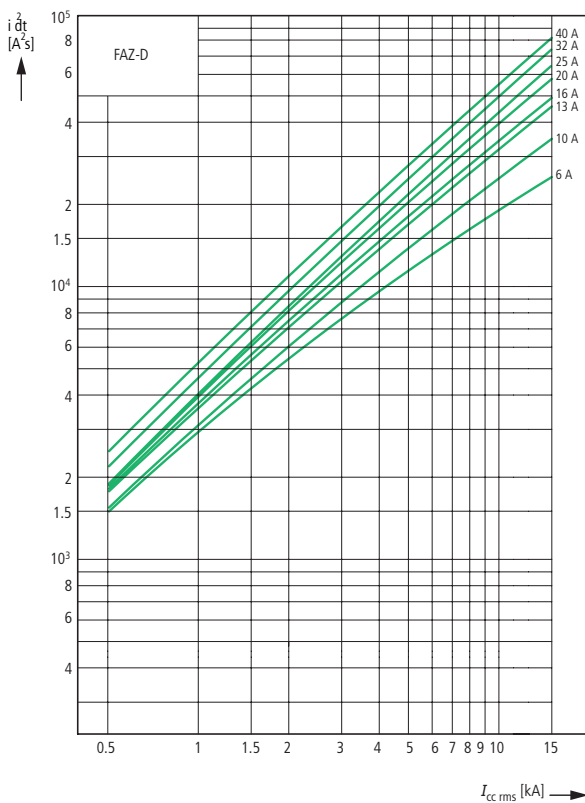
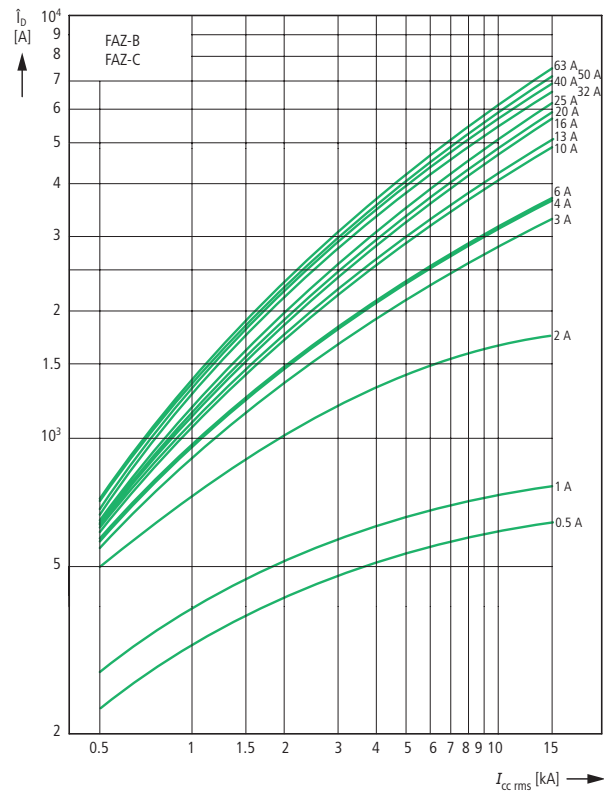
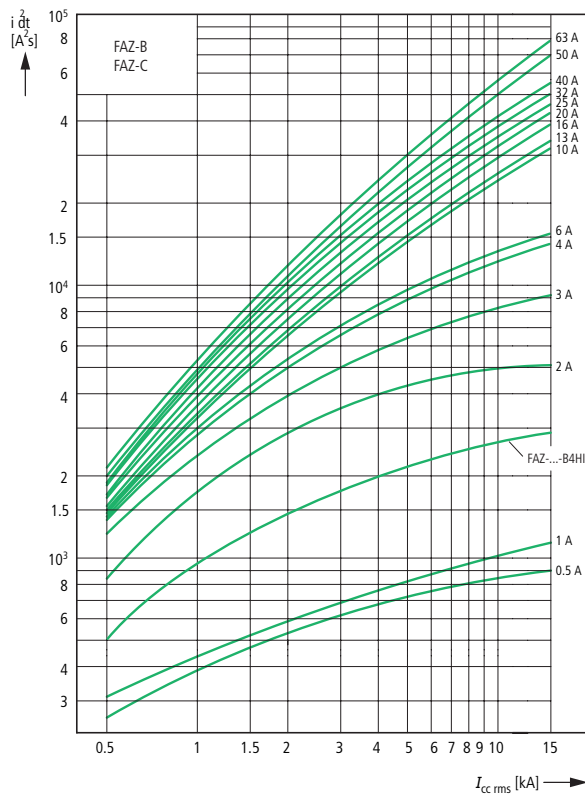
FAZ

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<http://catalog.moeller.net>

Miniature circuit-breakers

FAZ...

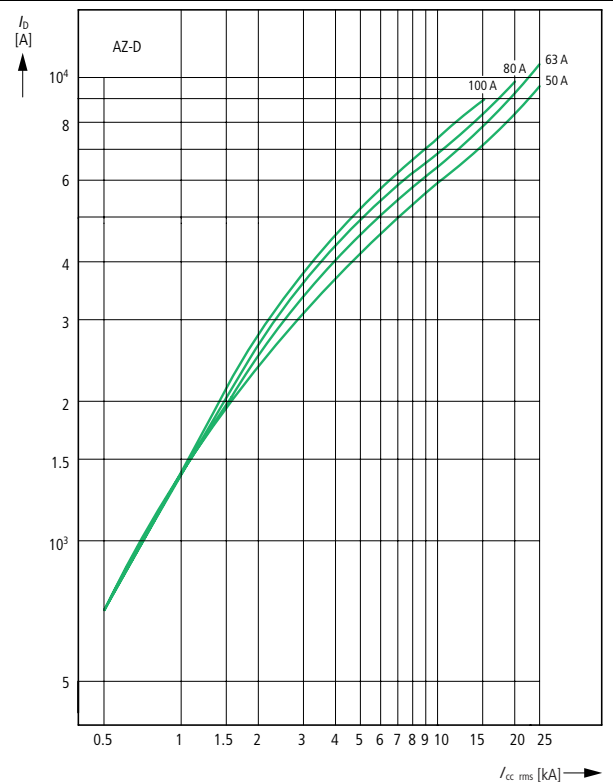
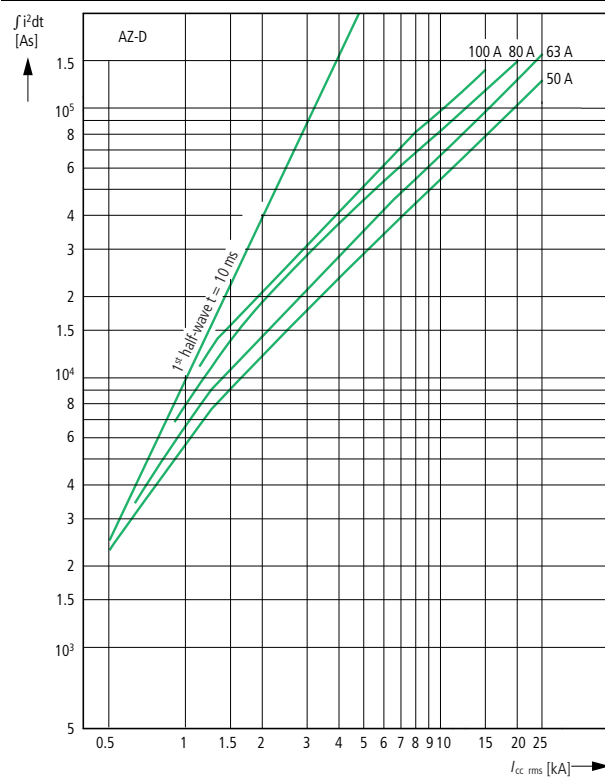
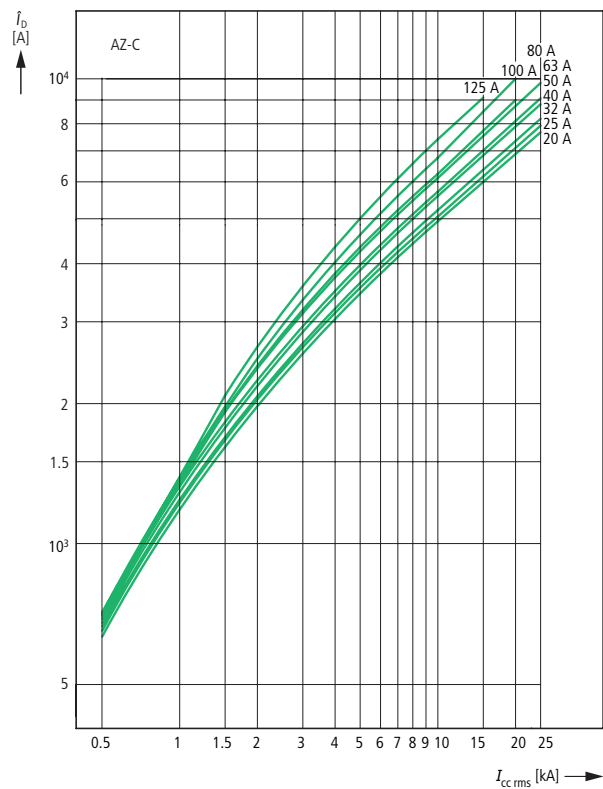
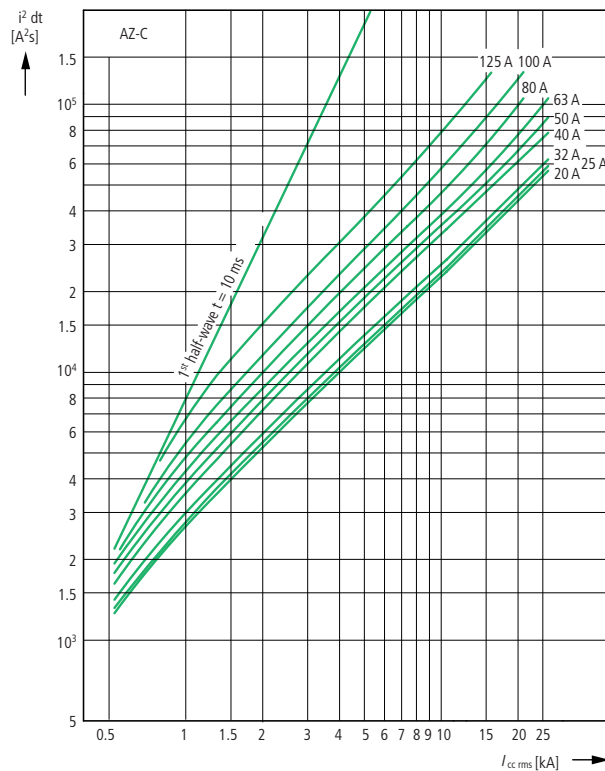
Let-through energy I^2t
According to IEC/EN 60898Let-through current $\hat{I}_D$
According to IEC/EN 60898

Miniature circuit-breakers

AZ...

Let-through energy I^2t

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





PKNM, Z-DO

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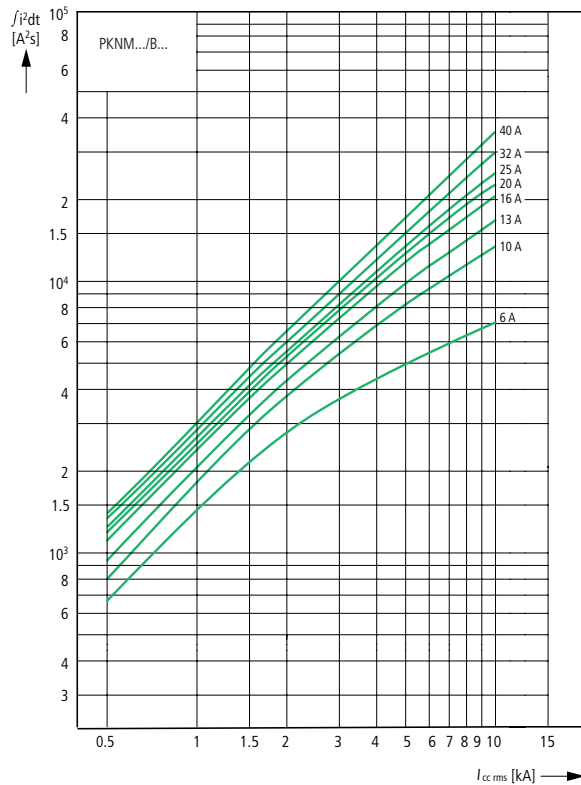
<http://catalog.moeller.net>

Combined RCD/MCB devices

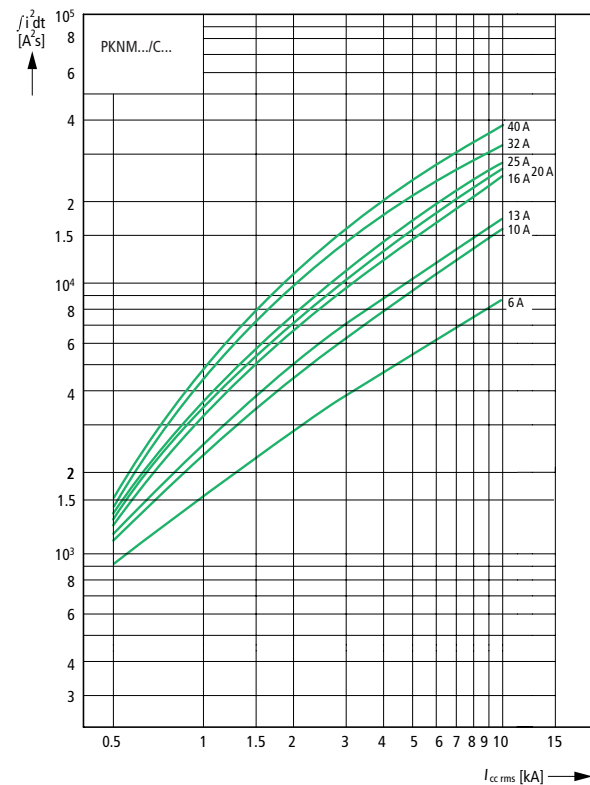
PKNM-...

Let-through energy I^2t

According to IEC/EN 60898

Let-through energy I^2t

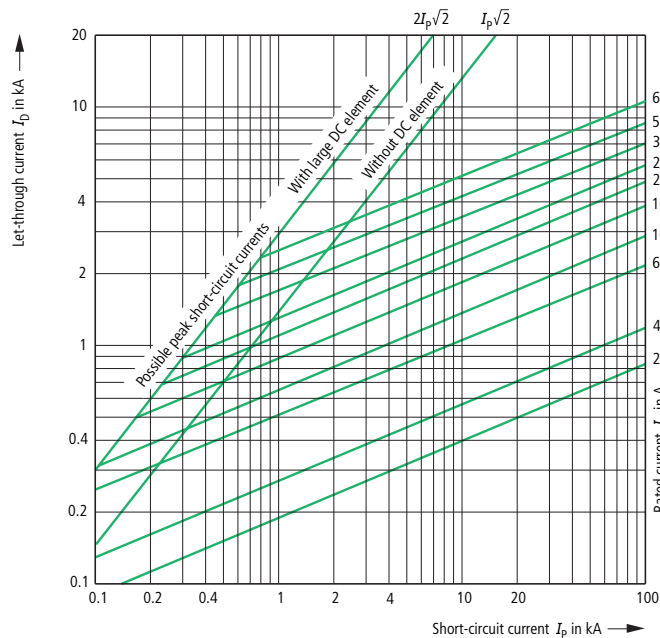
According to IEC/EN 60898



Fuse

Z-D0.../S...

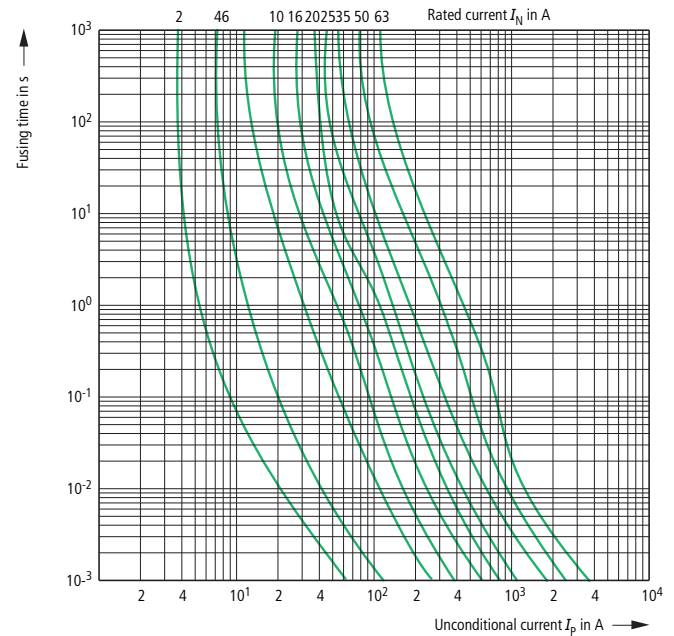
Let-through current characteristic curve



Fuse

Z-D0.../S...

Time current curve



		FAZ	FAZ-...-DC	FAZ-PN	AZ
Electrical					
Standards		IEC/EN 60947-2 IEC/EN 60898	IEC/EN 61131-2	IEC/EN 60898	IEC/EN 61131-2
Rated operational voltage					
	V AC	230/400	–	230	230/400
	V DC	48 (per pole)	250 (per pole)	48 (per pole)	60 (per pole)
Rated switching capacity	kA	15	10	6	25
Operational switching capacity	kA	7.5	–	–	20
Characteristic		B, C, D	C	B, C	Similar: D, C
Max. back-up fuse	A gL/gG	125	100	100	200
Selectivity Class		3	3	3	Compliant with Class 3
Lifespan	Operations	> 10000	> 10000	> 4000	> 10000
Direction of incoming supply		As required	Polarity dependent	As required	As required
Mechanical					
Standard front dimension	mm	45			
Enclosure height	mm	80	80	80	90
Terminal protection		Finger and back-of-hand proof to BGV A2			
Mounting width per pole	mm	17.5	17.5	17.5	27
Mounting		IEC/EN 60715 top-hat rail			
Protection type		IP20, IP40 (when fitted)			
Terminals top and bottom		Twin-purpose terminals			Lift terminals
Terminal capacities					
Solid	mm ²	1 × 25	1 × 25	1 × 16	2.5 ... 50
flexible	mm ²	2 × 10	2 × 10	–	–
Thickness of busbar material	mm	0.8 ... 2	0.8 ... 2	–	–
Mounting position		As required			–





			PKNM	FIM	AZFIMP	FI ≤ 100 A	FI 125 A and type B
Electrical							
Standards			IEC/EN 61009	IEC/EN 61009	IEC/EN 61131-2	IEC/EN 61008	IEC/EN 61008
Tripping		A	250 (8/20μ) non-delayed surge resistant			Non-delayed, S	
Rated operational voltage	U_e	V AC	230	230/400	230/400	230/400	230/400
Limit values of the operating voltage		V AC	196 ... 253	196 ... 440	196 ... 440	184 ... 440	184 ... 440
Rated frequency	f	Hz	50				
Rated fault currents	$I_{\Delta n}$	mA	30, 300	30, 300	30, 300	30, 100, 300, 500	30, 100, 300, 500
Rated non-tripping current			$0.5 \times I_{\Delta n}$	$0.5 \times I_{\Delta n}$	$0.5 \times I_{\Delta n}$	$0.5 \times I_{\Delta n}$	$0.5 \times I_{\Delta n}$
Rated fault switching capacity	$I_{\Delta m}$	A				$I_n = 16...40$ A: 500 $I_n = 63$ A: 630 $I_n = 80$ A: 800 $I_n = 100$ A: 1000	$I_n = 125$ A: 1250 for Type B: 60. 80 A: 800 40 A: 500 125 A: 1250
230 V		kA	6	–	–	–	–
400 V		kA	3	–	–	–	–
Sensitivity			DC and pulsed current				
Rated switching capacity	I_{cn}	kA	10	As fitted FAZ	As fitted AZ	10	10
Operational switching capacity	I_{cs}	kA		As fitted FAZ			
Rated ultimate short-circuit breaking capacity	I_{cu}			As fitted AZ	As fitted AZ		
Rated short-circuit switching capacity					$= I_{cu}$		
Rated current	I_e	A	6 ... 40	40, 63	80, 125	16 ... 100	40 ... 125
Rated impulse withstand voltage	U_{imp}	kV	6 (1.2/50 μs)		4 (1.2/50 μs)	6	6
Characteristic			B, C				
Maximum max. as short-circuit protective device		A gL	100			$I_n = 16...63$ A: 63 $I_n = 80$ A: 80 $I_n = 100$ A: 100	$I_n = 125$ A: 125 for Type B: $I_n \leq 80$: 100 $I_n = 125$: 125
Selectivity Class			3				
Lifespan							
Electrical		Operations	> 4000	> –	> 1500	> 4000	> 2000
Mechanical		Operations	> –	> –	> 10000	> 20000	> 5000
Mechanical							
Standard front dimension		mm	45	45	45	45	45
Enclosure height		mm	80	90	90	80	85
Terminal protection			Protection against electric shock to IEC 536				
Mounting width		mm	35 (2 space units)	70 (2-pole), 125 (4-pole)	95 (5.5 space unit)	35 (2 space unit), 70 (4 space units)	70 (4 space unit)
Mounting				Permanent screw connection with FAZ	Screwed on to AZ (2- to 4-pole)	Top-hat rail IEC/EN 60715	Top-hat rail IEC/EN 60715
Degree of protection							
Switch			IP 20				
Integrated			IP40	IP40	IP40	IP40	IP40
Terminals top and bottom			Twin-purpose terminals	Lift terminals	Lift terminals	Twin-purpose terminals	Twin-purpose terminals
Terminal capacities							
Solid		mm ²	1 × 25	1 × (1 – 25)	2.5 ... 50	1.5 ... 35	1.5 ... 50
flexible		mm ²		1 × (0.75 – 16)		2 × 16	2 × (1.5 – 16)
Thickness of busbar material		mm	0.8 ... 2	0.8 ... 2		0.8 ... 2	0.8 ... 2
Admissible ambient temperature range		°C	-25 ... +40	-25 ... +40	-25 ... +40	-25 ... +40	-25 ... +40
Climatic proofing			IEC/EN 61009	IEC/EN 61009	IEC/EN 60068-2	IEC/EN 61008	IEC/EN 61008



			FAZ-XHIN11	FAZ-XHINW1	FAZ-XAM002	FAZ-XAA-C	FAZ-XUA
Electrical							
Rated operational voltage	U_e	V AC	250	250	250	—	115, 230, 400
Contact function			1 NO + 1 NC	1 W	2 C/O	—	—
Voltage range		V AC	—	—	—	12 ... 110 110 ... 415	—
Closing threshold	$\times U_n$		—	—	—	—	0.8
Tripping threshold	$\times U$		—	—	—	—	0.5
Rated frequency	f	Hz	50/60	50/60	50/60	50/60	50/60
Rated current	I_e	A	6	6	4	—	—
Conventional free air thermal current	I_{th}	A	6	6	4	—	—
Rated operational current							
AC-12	I_e	A	3 (250 V AC)	3 (250 V AC)	3 (250 V AC)	—	—
AC-15	I_e	A	2 (250 V AC)	2 (250 V AC)	2 (250 V AC)	—	—
DC-13	I_e	A	0.5 (110 V DC)	0.5 (110 V DC)	0.5 (110 V DC)	—	—
Rated insulation voltage	U_i	V AC	250	250	250	—	—
Minimum operating voltage per contact	U_{min}	V DC	5	5	5	—	—
Rated impulse withstand voltage (1.2/50 μ s)	U_{imp}	kV	2.5	2.5	2.5	—	—
Rated conditional short-circuit current With 6 A back-up fuse	I_{sc}	kA	1	1	1	—	—
Max. admissible back-up fuse		A gL	6	6	4		
Mechanical							
Standard front dimension		mm	45	45	45	45	45
Enclosure height		mm	80	80	80	80	80
Mounting width		mm	8.8 (0.5 space	8.8 (0.5 space	8.8 (0.5 space	17.5 (1 space	17.5 (1 space
Mounting			max. 2 $\times$ on MCB	max. 2 $\times$ on MCB	On MCB	IEC/EN 60715 top-hat rail	IEC/EN 60715 top-hat rail
Degree of protection							
Integrated			IP40				
Terminal protection			Protection against electric shock to IEC 536				
Terminals			Lift terminals	Lift terminals	Lift terminals	Twin-purpose terminals	Twin-purpose terminals
Terminal capacities							
Solid		mm ²	0.5 ... 2.5	0.5 ... 2.5	0.5 ... 2.5	1 ... 2.5	2 $\times$ (1 – 2.5)
flexible		mm ²	0.5 ... 2.5	0.5 ... 2.5	0.5 ... 2.5	1 ... 2.5	2 $\times$ (1 – 2.5)
Tightening torque of terminal screws		Nm	≤ 1.2	≤ 1.2	0.8 ... 1.0	2.4	0.8





				AZ-XHI11	AZ-XAA	FI-XHI11 ≤ 100 A	FIPA-XAM011 125 A RCCB and type B
Electrical							
Contact function				1 M + 1 B		1 M + 1 B	1 C/O + 1 B
Voltage range		V AC			12 ... 110 110 ... 415		
Voltage range		V DC			12 ... 60 110 ... 220		
Min. operating voltage	U_e	V/mA		24/50		24/50	
Rated operational current							
AC—14							
230 V	I_e	A		6		6	6
AC—13							
250 V	I_e	A		6	—	6	—
400 V	I_e	A		2	—	2	—
DC—11							
24 V	I_e	A		4	—	—	1
DC—13							
60 V	I_e	A		4	—	4	—
110 V	I_e	A		2	—	2	—
230 V	I_e	A		0.5	—	0.5	—
Rated insulation voltage	U_i	V AC		440	440	440	440
Minimum operating voltage per contact	U_{min}	V DC					
Rated impulse withstand voltage (1.2/50 μs)	U_{imp}	kV					
Rated conditional short-circuit current With 6 A back-up fuse	I_{sc}	kA		—	—	—	—
Max. admissible back-up fuse		A gL		6	Inherently short-circuit-proof	6	6
Lifespan							
Mechanical		Operations		> 6000	> 4000	> 6000	—
Inrush current							
AC		A		—	38	—	—
Pick up time AC		ms		—	2.1	—	—
DC		A		—	34	—	—
Pick up time DC		ms		—	2	—	—
Mechanical							
Standard front dimension		mm		45	45	45	45
Enclosure height		mm		90	90	90	90
Mounting width		mm		8.8 (0.5 space unit)	17.5 (1 space unit)	8.8 (0.5 space unit)	8.8 (0.5 space unit)
Mounting				IEC/EN 60715 top-hat rail			
Degree of protection							
Integrated				IP40			
Switch				IP 20			
Terminal capacities							
Solid		mm ²		1 × (1 – 25) 2 × (1 – 4)	1 × (1 – 25) 2 × (1 – 4)	2 × (0.5 – 2.5) 1 × (0.5 – 2.5)	2.5
flexible		mm ²		1 × (1 – 25) 2 × (1 – 4)	1 × (1 – 25) 2 × (1 – 4)	2 × (0.5 – 2.5) 1 × (0.5 – 2.5)	2.5
Tightening torque of terminal screws		Nm		0.8	3	0.8	0.8



			FAZ/FIP-XAWM	FAZ/FIP-XDWM
Electrical				
Operational voltage range				
V AC			220 ... 240	
V DC				48
Rated frequency	<i>f</i>	Hz	50/60	
Relay output for alarm, 250 V AC, potential-free		A	5	5
Function			Automatic control	
Function selector			Automatic 5 ×, OFF/RESET	
Mechanical				
Standard front dimension		mm	45	45
Enclosure height		mm	80	80
Mounting width		mm	70	70
Mounting			Top-hat rail to IEC/EN 60715	
Degree of protection				
Integrated			IP40	
Terminal protection			Protection against electric shock to IEC 536	
Terminals			Lift terminals	
Terminal capacities				
Solid		mm ²	2 × 1.5 1 × 2.5	2 × 1.5 1 × 2.5
flexible		mm ²	2 × 1.5 1 × 2.5	2 × 1.5 1 × 2.5

				D01-S0/	D02-S0/	D02-S/63/3-RS
Electrical						
Number of poles				1P 3P	1P 3P	3P
Rated operating voltage		U_e	V AC	400	400	400
			V DC	250	250	
Rated short-circuit current tested with links		I_e	kA	50 (AC) / 8 (DC)	50 (AC) / 8 (DC)	50
Rated frequency		f	Hz			40...60
Rated operational current		I_e	A	16	63	63
Conventional thermal current with fuse links		I_{th}	A			63
Rated operating mode						Uninterrupted operation
Overvoltage category						III
Utilization category						AC 23 B
Rated impulse withstand voltage		U_{imp}	kV	–	–	8
Current heat loss per contact at I_e			W	–	–	0.5
Power loss						
Heat dissipation per contact with fuse link at I_e			W	–	–	7.5
Max. permissible heat losses of the fuse links			W			5.5
Utilization category				gG (gL)	gG (gL)	
Mechanical						
Standard front dimension			mm	45	45	–
Enclosure height			mm	68	68	212
Mounting width			mm	27 (per pole)	27 (per pole)	36
Weight			g	1P 76 3P 230	1P 76 3P 230	260
Electrical hoist				E14	E18	E18
Mounting				Quick attachment for top-hat rail IEC/EN 60715		Busbar with 60 mm clearance
Degree of protection		Integrated				IP30
Terminals				Double function terminals		Lift terminals
Terminal capacities		Solid	mm ²	1.5 ... 35	1.5 ... 35	1.5 ... 25 Cu
Temperature range			°C			-25 ... +55
Specified tightening torque for terminal screws			Nm	2.5 ... 3	2.5 ... 3	max. 2.6
Pollution degree						3
Creepage resistance				CTI 200	CTI 200	





			Z-SLS/NE0Z	Z-SLK/NE0Z
Electrical				
Number of poles			1P 1P+N 2P 3P 3P+N	1P 1P+N 2P 3P 3P+N
Rated operational voltage		V DC	1P up to 110V / 2P up to 220V	
Rated operating voltage	U_e	V AC	400	400
Rated operational current	I_e	A	63	63
Rated uninterrupted current	I_u	A	63	63
Rated short-circuit making capacity			50 kAeff	50 kAeff
N/O				5A/250V
Switching category			AC 22 B, DC 21 B	AC 22 B, DC 21 B
Overvoltage category			IV	IV
Rated impulse withstand voltage	U_{imp}	kV	6	6
Current heat loss per contact at I_e		W	0.5	0.5
Power loss				
Heat dissipation per contact with fuse link at I_e		W	7.5	7.5
Relay section electrical				
Operating voltage range		V AC		24 ... 240
Operational voltage tolerance				±10%
Power consumption		VA	–	5
Frequency		Hz		50...60
Function display				Mains: 1 LED Fault: 1 LED
Duty factor		%		100
Response delay/On-delay		ms	–	100
Recovery time	t_W	ms	–	Approx.100
Relay contacts				2 changeover contacts, 5A/250V
Overvoltage category				III
Auxiliary contacts				
Rated impulse withstand voltage	U_{imp}	kV	–	4
Mechanical				
Standard front dimension		mm	45	45
Enclosure height		mm	86	86
Mounting width		mm	27/per pole (1.5 SU)	27/per pole (1.5 SU) + 27
Weight		g	1P 113 1P+N 225 2P 224 3P 450 3P+N 472	1P 224 2P 345 3P 450 3P+N 472
Mounting			Quick attachment for top-hat rail IEC/EN 60715	
Integrated			IP20	IP20
Terminals			Lift terminals	Lift terminals
Terminal capacities				
Solid		mm ²	1.5 ... 35	1.5 ... 35
Temperature range		°C	-25 ... +60	-25 ... +60
Flammability classification to EN 60730			V0, glow-wire test 960°C	
Specified tightening torque for terminal screws			max. 4.5	max. 4.5
Pollution degree			3	3
Creepage resistance			CTI 600	CTI 600
Relay section mechanical				
Terminals			Lift terminals	Lift terminals
Terminal capacities				
Solid		mm ²		0.14...4
flexible		mm ²		0.14...2.5
Specified tightening torque for terminal screws				0.5...0.7



			VLC14	VLC22	
Electrical					
Number of poles			1P 1P+N 2P 3P 3P+N	1P 1P+N 2P 3P 3P+N	
Rated operating voltage	U_e	V AC	690	690	
Rated operational current	I_e	A	50	100	
Rated conditional short-circuit current	I_e	kA	100	100	
Rated frequency	f	Hz	50	50	
Utilization category			AC 22 B	AC 21 B	
Rated impulse withstand voltage	U_{imp}	kV	8	8	
Fuse		W	gG: 5, aM: 3	gG: 9.5, aM: 7	
Mechanical					
Standard front dimension		mm	45	45	
Enclosure height		mm	94	121	
Mounting width		mm	27/per pole	36/per pole	
Weight		g	1P 100 1P+N 222 2P 201 3P 308 3P+N 437	1P 160 1P+N 355 2P 310 3P 480 3P+N 680	
Mounting			Quick attachment for top-hat rail IEC/EN 60715		
Degree of protection					
Integrated			IP20		
Terminals			Lift terminals		
Terminal capacities					
Solid		mm ²	1.5...10	2.5...35	
Temperature range		°C	-25 ... +60	-25 ... +60	
Specified tightening torque for terminal screws					
Tightening torque		Nm	max. 2	max. 2.5	
Pollution degree			1	1	
Creepage resistance			CTI 400	CTI 400	
			Z-D01/SE	Z-D02/SE	
Electrical					
Rated operating voltage	U_e	V AC	400	400	
		V DC	220	220	
Utilization category			gG (gL)	gG (gL)	
Rated frequency	f	Hz	45...65	45...65	
Rated insulation voltage	U_i	V	2500	2500	
Rated short-circuit switching capacity			50 kA (AC) 8 kA (DC)	50 kA (AC) 8 kA (DC)	
			Z-SLS/B	Z-SLS/B24	Z-SLS/TR-SET
Electrical					
Rated operational voltage		V DC		24	
Rated operating voltage	U_e	V AC	60 ... 400	24	400
Utilization category			gG (gL)	gG (gL)	
Test voltage		kV	5	5	5
Rated uninterrupted current	I_u	A	—	—	63





LTS..., GST...

Moeller HPL0211-2007/2008

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				LTS-100/C00/3-R	GST...00-160	GST...1	GST...2	GST...3
General								
Standards				IEC/EN 60947-3				
Climatic proofing				Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclical, to IEC 60068-2-30				
Ambient temperature		°C		-25 ... +55	-25 ... +55	-25 ... +55	-25 ... +55	-25 ... +55
Altitude		m		2000	2000	2000	2000	2000
Mounting position				Vertical, horizontal				
Overvoltage category/pollution degree				III/3	III/3	III/3	III/3	III/3
Degree of protection, from the front								
Operational state				IP20	IP20	IP20	IP20	IP20
Front cover open				IP10	IP10	IP10	IP10	IP10
Direction of incoming supply				As required				
Weight		kg		0.57	0.72 GSTA 0.93 GST	2.5 GSTA 4.4 GST	3.3 GSTA 5.3 GST	4.6 GSTA 6.6 GST
Contacts								
Rated operational voltage	U_e	V AC		500	500 690	500 690	500 690	500 690
Rated operational voltage	U_e	V DC		220	220 440	220 440	220 440	220 440
Rated operational current	I_e	A		100	160 100	250 200	400 315	630 500
Rated frequency		Hz		40 – 60	40 – 60	40 – 60	40 – 60	40 – 60
Rated conditional short-circuit current AC		kA _{rms}		50	50	50	50	50
Rated conditional shortcircuit current DC		kA _{rms}		25	25	25	25	25
Utilization category AC22B								
Rated making capacity		A		300	480 300	750 600	1200 945	1890 1500
Rated breaking capacity		A		300	480 300	750 600	1200 945	1890 1500
Utilization category DC21B								
Rated making capacity		A		400	150	300	475	750
Rated breaking capacity		A		400	150	300	475	750
Lifespan, electrical	Switching operations			300	300	200	200	200
Lifespan, mechanical	Switching operations			1700	1700	1400	800	800
Heat dissipation at I_{th} AC, without NH-SE		W		11.5	6.9 2.7	12.9 8.3	27 16.7	52 32.8
Heat dissipation at I_{th} DC, without NH-SE		W		7.7	4.6 1.8	8.6 5.5	18 11.2	34.7 21.8
Rated insulation voltage	U_i	V AC		500	750	750	750	750
Max. fuse								
Size				NH000	NH00	NH1	NH2	NH3
Max. rated current gG/g		A		100	160	250	400	630
Max. admissible heat dissipation NH-SE	P_v	W		7.5	12	23	34	48
Terminal capacity								
Box terminal								
Stranded		mm ²		1.5 – 50	1.5 – 70	–	–	–
Copper strip	Number of segments × width × thickness	mm		6 × 9 × 0.8	6 × 9 × 0.8			
Tightening torque		Nm		2.6	2.6			
Box terminal								
Stranded				–	–	6 × 9 × 0.8	6 × 9 × 0.8	6 × 9 × 0.8
Copper strip		mm				6 × 9 × 0.8	6 × 9 × 0.8	6 × 9 × 0.8
Tightening torque		mm				6 × 9 × 0.8	6 × 9 × 0.8	6 × 9 × 0.8
Tightening torque		Nm				6 × 9 × 0.8	6 × 9 × 0.8	6 × 9 × 0.8
Box terminal								
Stranded copper		mm ²			1.5 ... 70	25 ... 150	25 ... 240	25 ... 300
Copper braid	Number of segments × width × thickness	mm				6 × 16 × 0.8	10 × 16 × 0.8	11 × 21 × 1
Tightening torque		Nm				9.5	23	23
Clamp-type terminal								
Stranded aluminium/copper		mm ²				70 ... 150	120 ... 240	120 ... 300
Tightening torque		Nm				4.5	11	11
Double clamp-type terminal								
Stranded aluminium/copper		mm ²				2 × (70 ... 95)	2 × (120 ... 150)	2 × (120 ... 240)
Tightening torque		Nm				4.5	11	11



			NH-SLS-00/160(-60)	NH-SLS-1/250	NH-SLS-2/400	NH-SLS-3/630
Electrical						
Technical data to			IEC/EN 60947-3			
Size			00	1	2	3
Number of poles/phases			3	3	3	3
Conventional free-air current						
with low-voltage h.b.c. fuse links	I_{th}	A	160	250	400	630
Max. permissible rated heat dissipation						
of the low-voltage h.b.c. fuse links		W	12	23	34	48
Utilization category AC 23 B						
Rated operational voltage	U_e	V AC	400	500	500	500
Rated operational current	I_e	A	160	250	400	630
Rated conditional short-circuit current						
with fuse protection		kA	50	100	100	100
Utilization category AC 22 B, AC 21 B						
Rated operational voltage	U_e	V AC	690	690	690	690
Rated operational current	I_e	A	160	250	400	630
Rated conditional short-circuit current						
with fuse protection		kA	50	100	100	100
Rated insulation voltage	U_i	V	1000	1000	1000	1000
Overvoltage category			III	III	III	III
Rated impulse withstand voltage	U_{imp}	kV	8	12	12	12
Rated frequency		Hz	50...60	50...60	50...60	50...60
Rated operating mode			Uninterrupted operation ¹⁾			
Power consumption without low-voltage h.b.c. fuse links			20 W at 160 A	30 W at 250 A	67 W at 400 A	116 W at 630 A
Mechanical						
Mounting on busbars						
Spike terminal for busbar thickness		mm	10 (5 ... 10)	10	10	10
Screw for busbar thickness		mm	5 ... 10 M8 (without screws)	5 ... 10 M12	5 ... 10 M12	5 ... 10 M12
Standard connection screw			M8	M10	M10	M12
Cable lug – Cu conductor according to rated currents to IEC/EN 60947-1		mm ²	1 × 70	120	240	2 × 185
Current busbar max. width		mm	20	30	30	30
Ambient temperature range		°C	–5 ... +40	–5 ... +40	–5 ... +40	–5 ... +40
Degree of protection			IP30	IP30	IP30	IP30
Pollution degree			3	3	3	3

Notes

¹⁾ With uninterrupted operation of several adjaced devices the rated diversity factor to EN 60439-1, Tabel 1 must be observed.
The distance to earthed parts must be at least 50/100 mm at the top and 25/50 mm on the sides with sizes 00/1-3.





				NH-SLS-00/160(-60)-SI	NH-SLS-1/250-SI	NH-SLS-2/400-SI	NH-SLS-3/630-SI
Electrical							
Technical data to				IEC/EN 60947-3			
Size				00	1	2	3
Number of poles/phases				3	3	3	3
Conventional free-air current							
with low-voltage h.b.c. fuse links	I_{th}	A		160	250	400	630
Max. permissible rated heat dissipation							
of the low-voltage h.b.c. fuse links		W		12	23	34	48
Utilization categories AC 23 B, AC 22 B, AC 21 B							
Rated operational voltage	U_e	V AC		400	400	400	400
Rated operational current	I_e	A		160	250	400	630
Rated conditional short-circuit current							
with fuse protection		kA		50	100	100	100
Rated insulation voltage	U_i	V		400	400	400	400
Rated impulse withstand voltage	U_{imp}	kV		4	4	4	4
Rated frequency		Hz		50...60	50...60	50...60	50...60
Rated operating mode				Uninterrupted operation ¹⁾			
Overvoltage category				III	III	III	III
Power consumption without low-voltage h.b.c. fuse links				20 W at 160 A	30 W at 250 A	67 W at 400 A	116 W at 630 A
Mechanical							
Mounting on busbars							
Spike terminal for busbar thickness		mm		10 (5...10)	10	10	10
Screw for busbar thickness		mm		5...10 M8 (without screws)	5...10 M12	5...10 M12	5...10 M12
Standard connection screw				M8	M10	M10	M12
Cable lug – Cu conductor according to rated currents to IEC/EN 60947-1		mm ²		1 × 70	120	240	2 × 185
Current busbar max. width		mm		20	30	30	30
Ambient temperature range		°C		–5...+40	–5...+40	–5...+40	–5...+40
Degree of protection				IP30	IP30	IP30	IP30
Pollution degree				3	3	3	3
Electronic fuse monitoring							
Electrical							
Rated voltage		V AC		3 × 400			
Rated frequency		Hz		50...60			
Rated insulation voltage	U_i	V		400			
Overvoltage category				III			
Rated impulse withstand voltage	U_{imp}	kV		4			
Relay contacts							
2 changeover contacts				1 A, 250 V			
Mechanical							
Terminals				Lift terminals			
Terminal cross-section							
Solid		mm ²		2 × 2.5			
Flexible		mm ²		2 × 1.5			
Tightening torque of terminal screws		Nm		0.8			

Notes

¹⁾ With uninterrupted operation of several adjaced devices the rated diversity factor to EN 60439-1, Tabel 1 must be observed.
The distance to earthed parts must be at least 50/100 mm at the top and 25/50 mm on the sides with sizes 00/1-3.



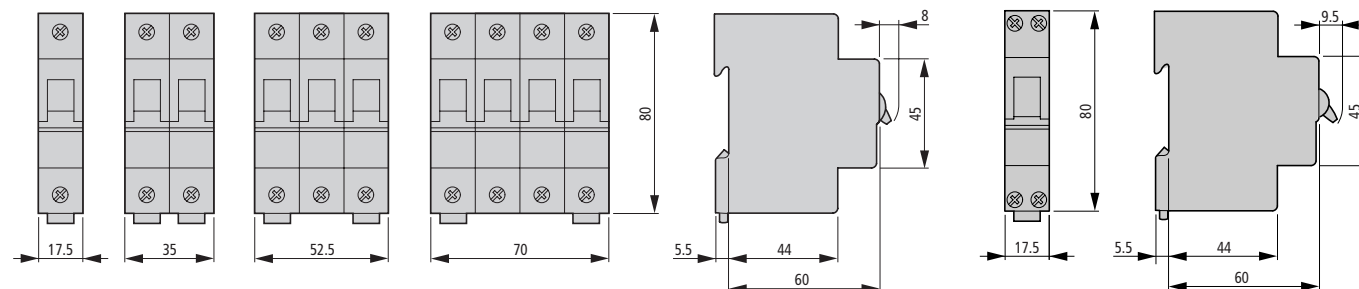
			GS00-160	GSU1	GSU2	GSU3
General						
Standards			IEC/EN 60 269-2-1; VDE0636-201			
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclical, to IEC 60068-2-30			
Ambient temperature		°C	-25 ... +55	-25 ... +55	-25 ... +55	-25 ... +55
Altitude		m	2000	2000	2000	2000
Mounting position			Vertical, horizontal	Vertical, horizontal	Vertical, horizontal	Vertical, horizontal
Overvoltage category/pollution degree			III/3	III/3	III/3	III/3
Degree of protection, from the front						
Operational state			IP00	IP00	IP00	IP00
Direction of incoming supply			As required	As required	As required	As required
Weight		kg	0.4	1.7	2.1	2.7
Contacts						
Rated operational voltage	U_e	V AC	690	690	690	690
Rated operational voltage	U_e	V DC	440	440	440	440
Rated operational current	I_e	A	160	250	400	630
Rated frequency		Hz	40 – 60	40 – 60	40 – 60	40 – 60
Heat dissipation at I_{th} AC, without NH-SE		W	6.9	12.9	27	52
Heat dissipation at I_{th} DC, without NH-SE		W	4.6	8.6	18	34.7
Rated insulation voltage	U_i	V AC	750	750	750	750
Max. fuse						
Size			NH00	NH1	NH2	NH3
Max. rated current gG/g		A	160	250	400	630
Max. admissible heat dissipation NH-SE	P_V	W	12	23	34	48
Terminal capacity						
Box terminal						
Stranded		mm ²	–	–	–	–
Copper strip	Number of segments × width × thickness	mm				
Tightening torque		Nm				
Box terminal						
Stranded			–	6 × 9 × 0.8	6 × 9 × 0.8	6 × 9 × 0.8
Copper strip		mm		6 × 9 × 0.8	6 × 9 × 0.8	6 × 9 × 0.8
Tightening torque		mm		6 × 9 × 0.8	6 × 9 × 0.8	6 × 9 × 0.8
Tightening torque		Nm		6 × 9 × 0.8	6 × 9 × 0.8	6 × 9 × 0.8
Box terminal						
Stranded copper		mm ²	1.5 ... 70	25 – 150	25 – 240	25 – 300
Copper braid	Number of segments × width × thickness	mm	6 × 9 × 0.8	6 × 16 × 0.8	10 × 16 × 0.8	11 × 21 × 1
Tightening torque		Nm	2.6	9.5	23	23
Clamp-type terminal						
Stranded aluminium/copper		mm ²		70 – 150	120 – 240	120 – 300
Tightening torque		Nm		4.5	11	11
Double clamp-type terminal						
Stranded aluminium/copper		mm ²		2 × 70 ... 95	2 × 120 ... 150	2 × 120 ... 240
Tightening torque		Nm		4.5	11	11





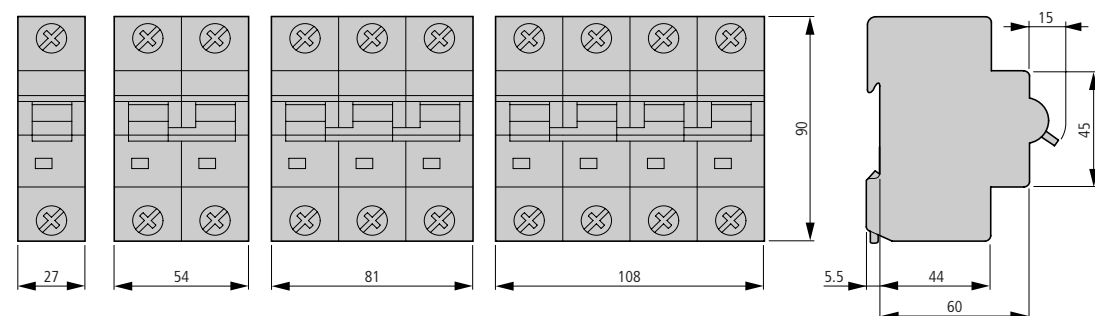
Miniature circuit-breakers

FAZ...



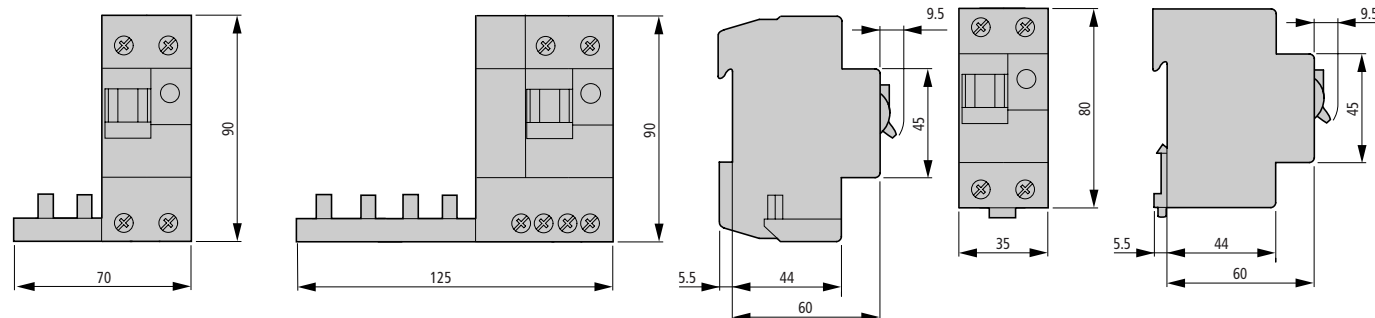
Miniature circuit-breakers

AZ...



Residual-current protective modules

FIM...

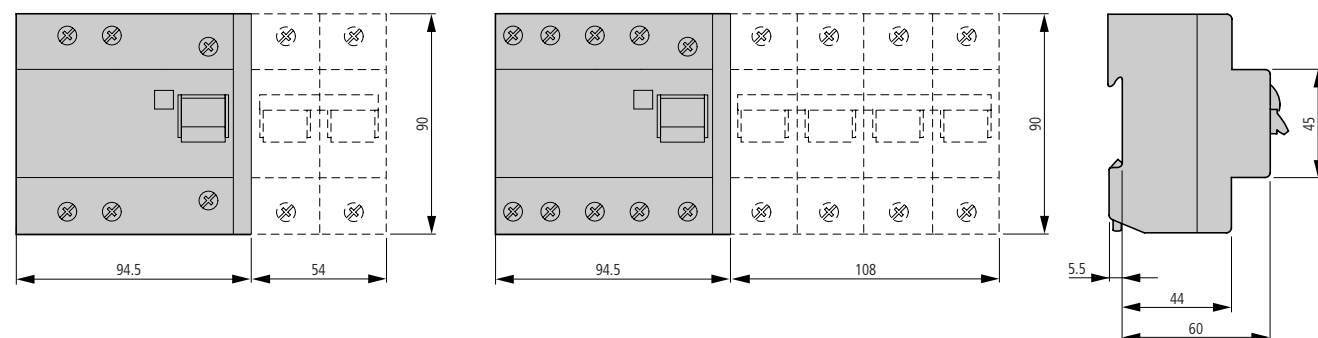


Combined RCD/MCB devices

PKNM...

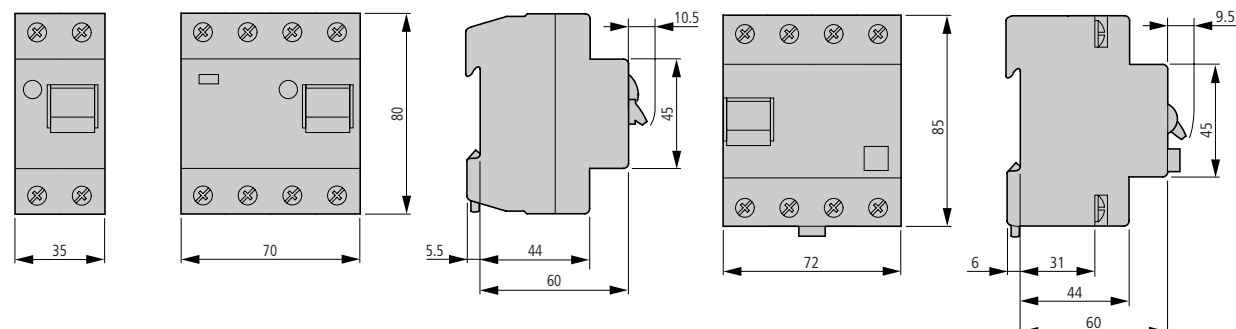
Residual-current protective modules

AZFIM...



Residual current device

FI...



Shunt releases, undervoltage releases, restarting module

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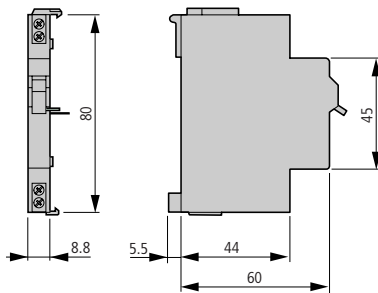
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FAZ-X, AZ-X, FAZ/FIP, FIP(A), Z-FW

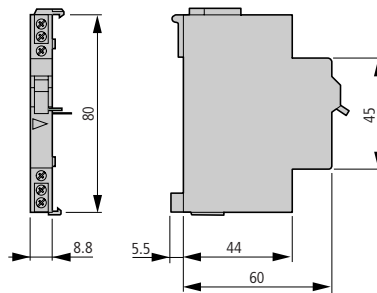


Auxiliary contacts

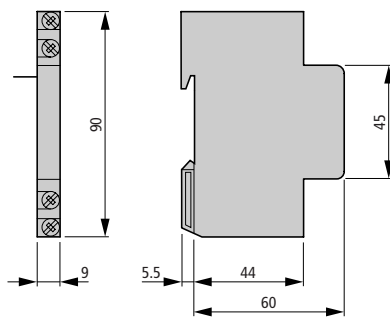
FAZ-XH11



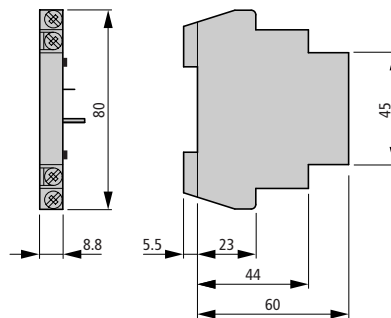
FAZ-XAM002



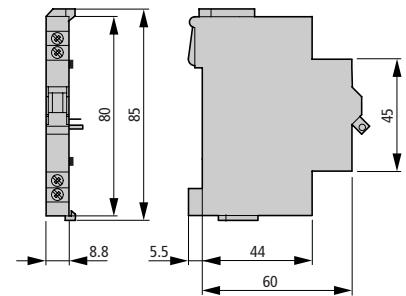
AZ-XH11



FIP-XH11

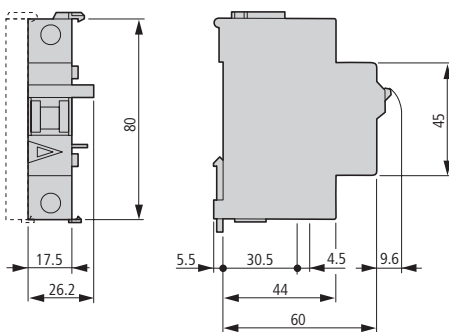


FIPA-XAM011



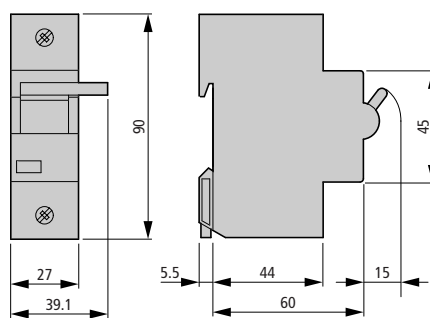
Shunt releases

FAZ-XAA-C...



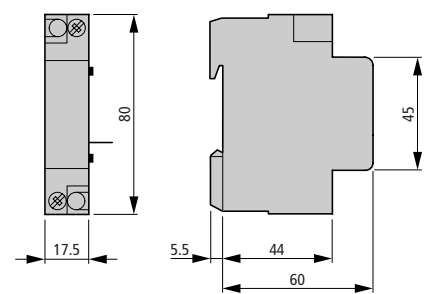
Shunt releases

AZ-XAA...



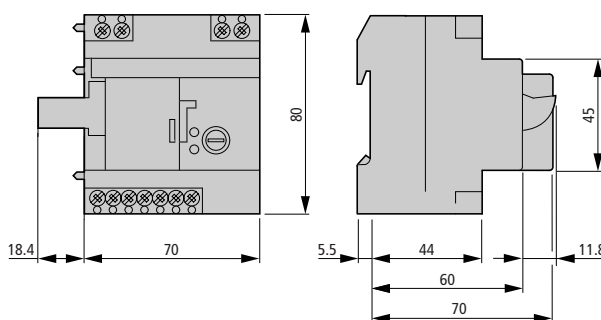
Undervoltage releases

FAZ-XUA...

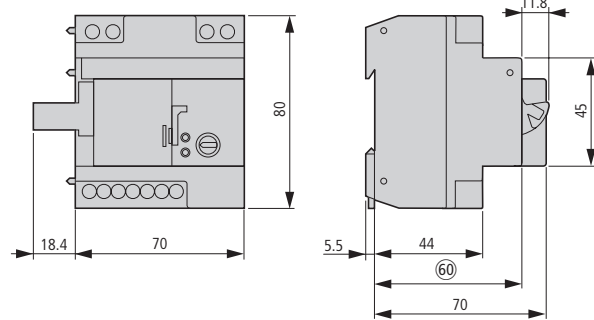


Restarting module

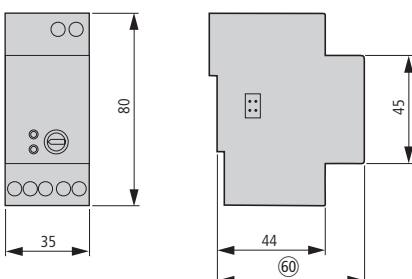
FAZ/FIP-...



Z-FW-LP
Z-FW-LPD



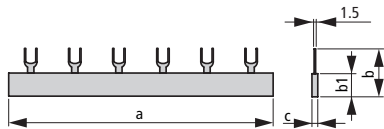
Z-FW-MO





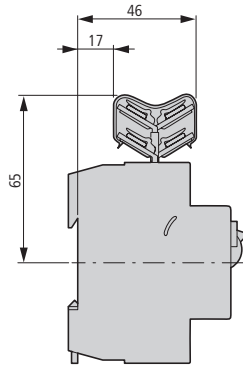
Busbars

EVG-16/...



Extension terminals

ZV-...-80A-...

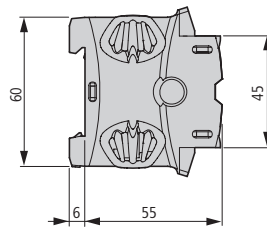
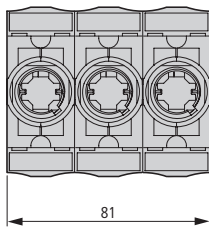
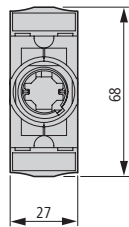


Type	a	b	b1	c
EVG-16/1PHAS/2MODUL	33	25.9	14	3.4
EVG-16/1PHAS/6MODUL	105	25.9	14	3.4
EVG-16/1PHAS/12MODUL	210	25.9	14	3.4
EVG-16/2PHAS/4MODUL	75.5	30.9	19	7.3
EVG-16/2PHAS/6MODUL	105	30.9	19	7.3
EVG-16/2PHAS/12MODUL	209.5	30.9	19	7.3
EVG-16/3PHAS/6MODUL	102.5	30.9	19	10.3
EVG-16/3PHAS/9MODUL	156	30.9	19	10.3
EVG-16/3PHAS/12MODUL	209.5	30.9	19	10.3
EVG-16/3PHAS/16MODUL	285	30.9	19	10.3
EVG-16/3PHAS/20MODUL	353	30.9	19	10.3
EVG-16/4PHAS/8MODUL	138	30.9	19	13.3
EVG-16/4PHAS/12MODUL	209.5	30.9	19	13.3
EVG-16/3PHAS/N/5MODUL/LS	156	30.9	19	10.3
EVG-16/3PHAS/N/8MODUL/LS	209.5	30.9	19	10.3
EVG-16/1PHAS/2MODUL/HI	60	25.9	14	3.4
EVG-16/1PHAS/6MODUL/HI	156.5	25.9	14	3.4
EVG-16/1PHAS/9MODUL/HI	237	25.9	14	3.4
EVG-16/2PHAS/4MODUL/HI	75.5	30.9	19	7.3
EVG-16/2PHAS/6MODUL/HI	120	30.9	19	7.3
EVG-16/2PHAS/10MODUL/HI	209.5	30.9	19	7.3
EVG-16/3PHAS/6MODUL/HI	115	30.9	19	10.3
EVG-16/3PHAS/12MODUL/HI	237	30.9	19	10.3
EVG-16/3x 1PHAS/6MODUL/HI	152	30.9	19	10.3
EVG-16/3x 1PHAS/8MODUL/HI	209.5	30.9	19	10.3
EVG-16/3x 1PHAS/9MODUL/HI	229	30.9	19	10.3

Fuse base

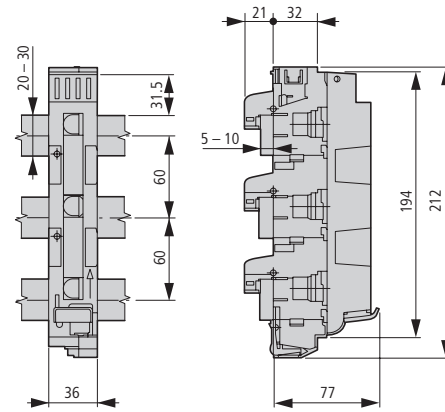
D01-SO/...

D02-SO/...



Busbar mounting switch-disconnector

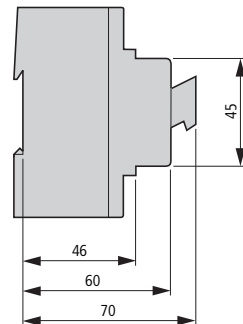
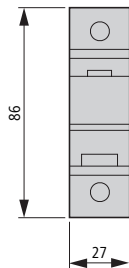
D02-S/63/3-RS



fuse switch-disconnector

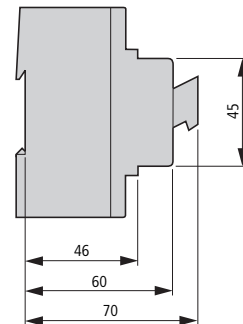
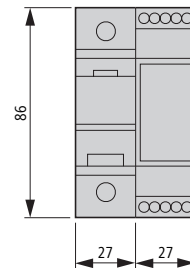
Standard, empty

Z-SLS/NEOZ/...



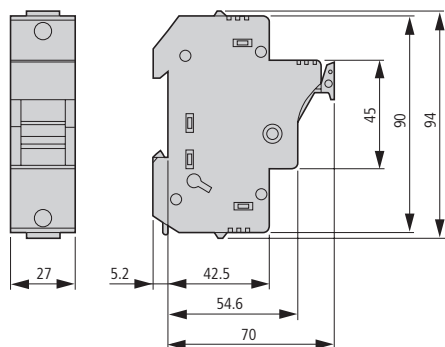
With fuse monitoring, empty

Z-SLK/NEOZ/...

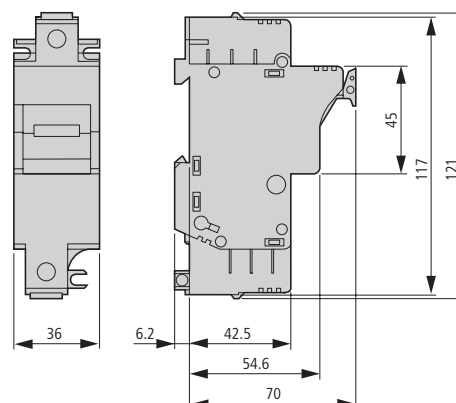


Fuse switch-disconnectors, empty

VLC14...



VLC22...



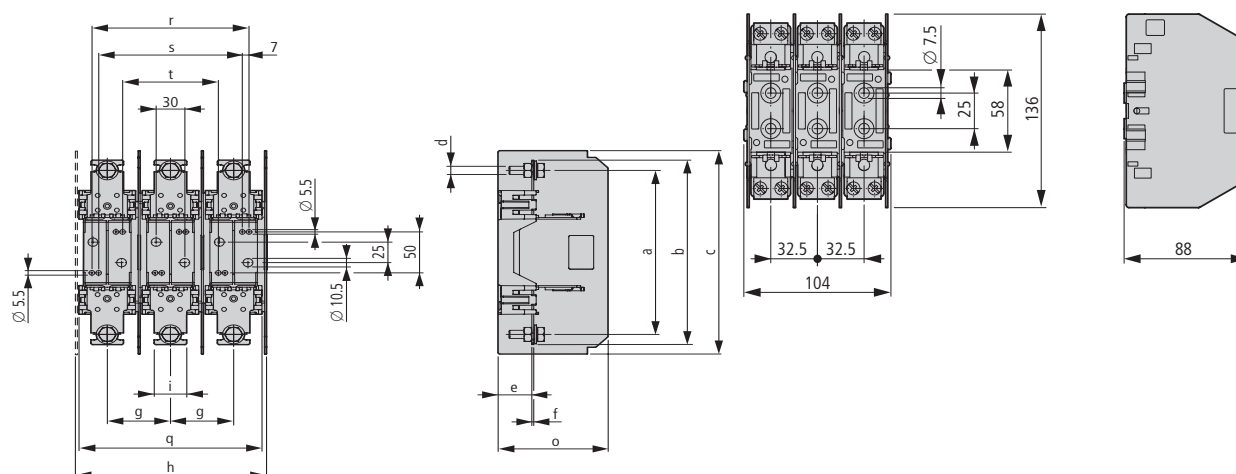
Low-voltage h.b.c. fuse base

GSU1

GSU2

GSU3

GS00-160



Type	a	b	c	d	e	f	g	h	i	o	q	r	s	t
GSU1	175	200	248	M10	35	2	66	200	34	107	191	164	150	100
GSU2	200	225	248	M10	35	2	66	200	34	115	191	164	150	100
GSU3	210	250	273	M10	35	3	84	254	40	132.5	245	200	186	136

Low-voltage h.b.c. fuse switch-disconnectors

1 pole

GSTA00-160-1P

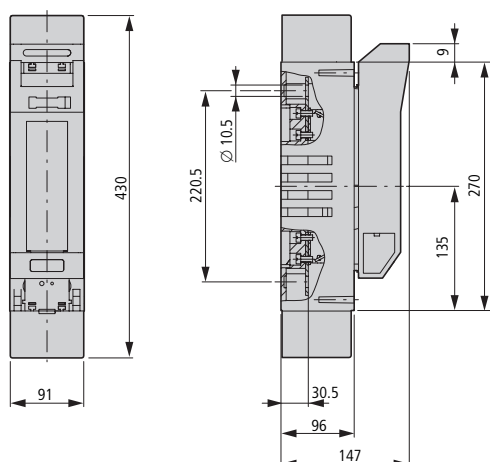
3 pole

GSTA00-160

GSTA1

GSTA2

GSTA3



Part no.	a	a1	b	b1	b2	b3	b4	b5	c	c3	d	e	f
GSTA00-160-1P	49	-	169	79	149	120	-	-	86.5	-	7	-	-
GSTA00-160	106	66	169	79	149	120	25	26	86.5	197	7	50	-
GSTA1	182	116	250	115	230	184	30	23	111	294	5.5	150	-
GSTA2	208	132	275	128	256	217	30	19.5	125	330.5	5.5	175	25
GSTA3	254	164	283	135	270	238	30	16	142	348	5.5	200	50





GS00160, GST(A), LTS

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Low-voltage h.b.c. fuse switch-disconnectors

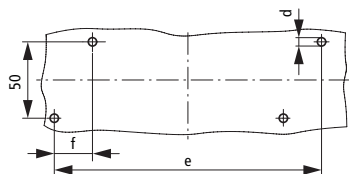
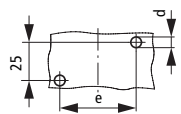
Drilling dimensions

GSTA00-160-1P

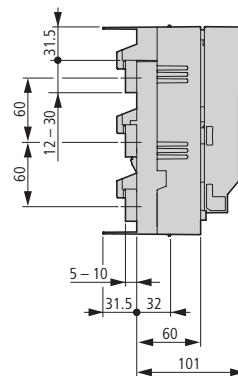
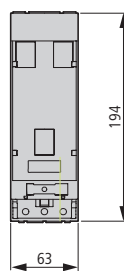
GSTA1

GSTA2

GSTA3

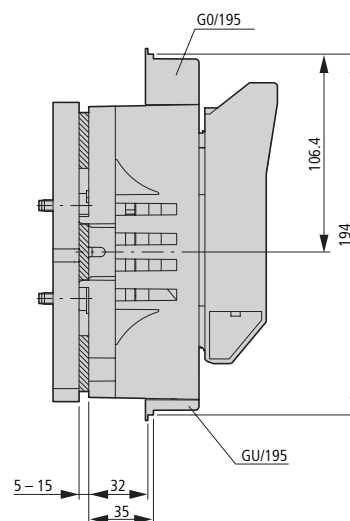
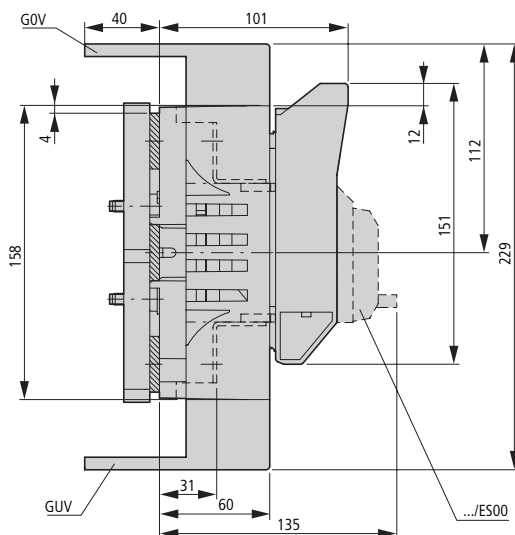
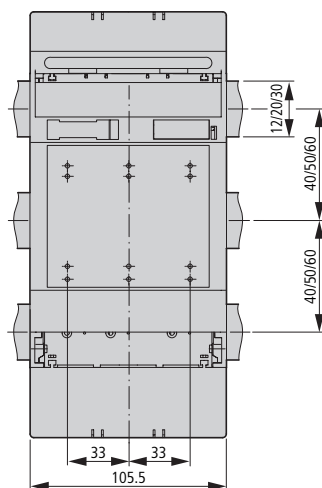


LTS-100/C00/3-R



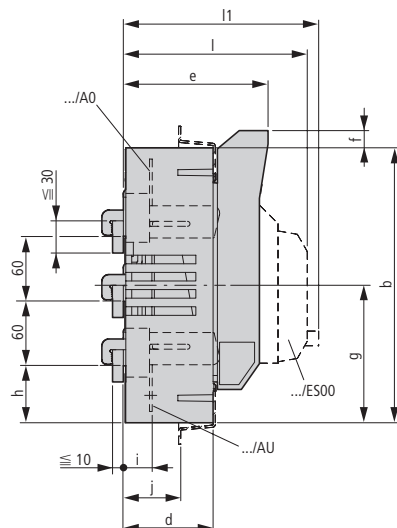
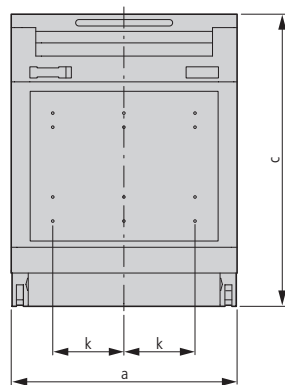
Part no.	a	a1	b	b1	b2	b3	b4	b5	c	c3	d	e	f
GSTA00-160-1P	49	-	169	79	149	120	-	-	86.5	-	7	-	-
GSTA00-160	106	66	169	79	149	120	25	26	86.5	197	7	50	-
GSTA1	182	116	250	115	230	184	30	23	111	294	5.5	150	-
GSTA2	208	132	275	128	256	217	30	19.5	125	330.5	5.5	175	25
GSTA3	254	164	283	135	270	238	30	16	142	348	5.5	200	50

GST00-160-40-60-AOU



GST1-...

GST2-...



Part no.	a	b	c	d	e	f	g	h	i	j	k	l	l1
GST1-...	184	230	247	70	121	16.5	115	42	27	55	58	151	161
GST2-...	210	256	272	83	135	16.5	128	53	27	55	66	165	175



Fuse switch-disconnectors, NH fuse switch-disconnectors

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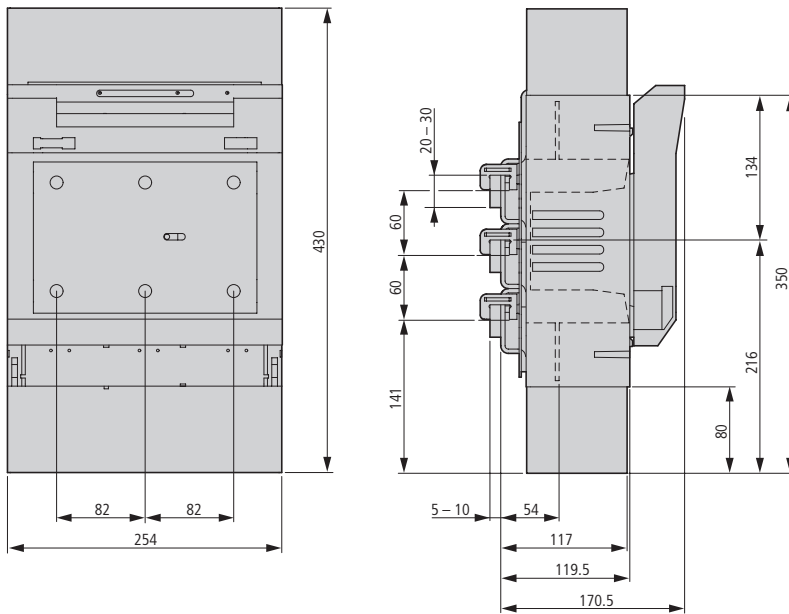
Moeller HPL0211-2007/2008

GST, NH-SLS



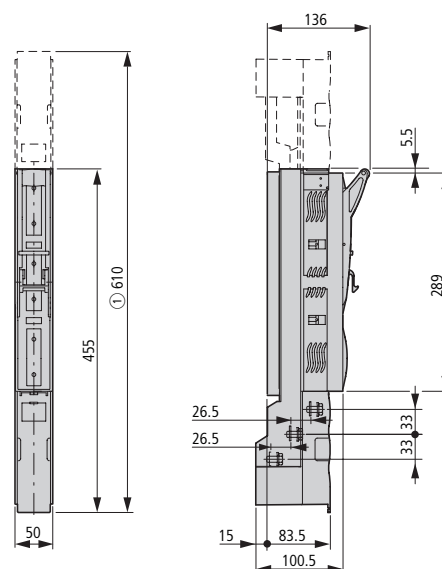
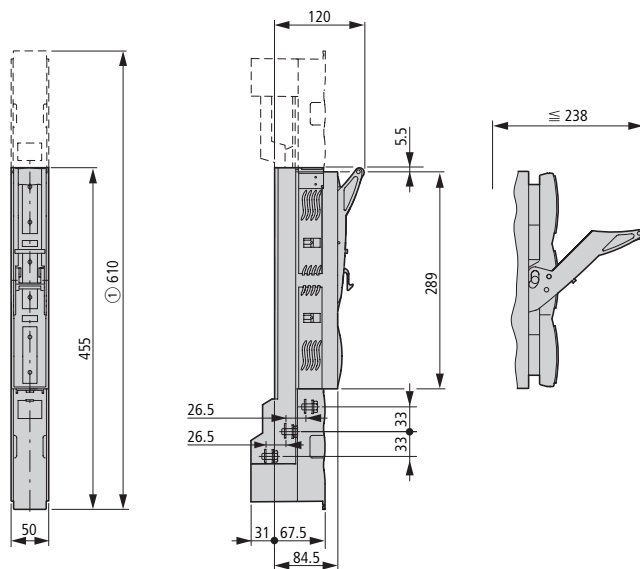
Low-voltage h.b.c. fuse switch-disconnectors

GST3-...



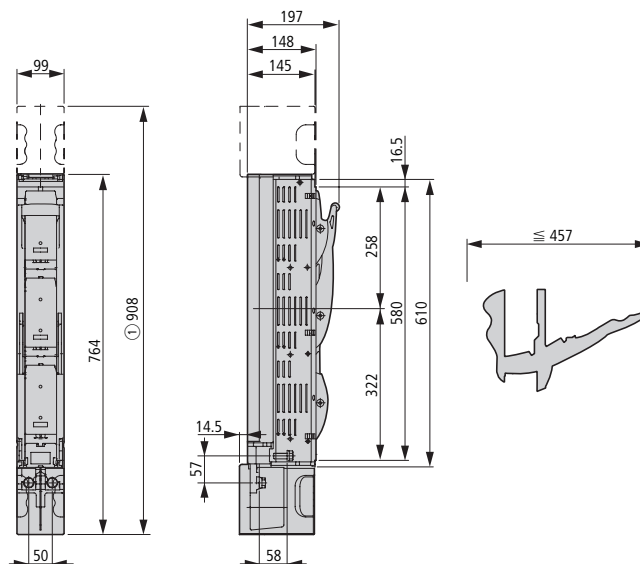
NH-SLS-00/160
NH-SLS-00/160-SI

NH-SLS-00/160-60
NH-SLS-00/160-60-SI



NH-SLS-1/250
NH-SLS-1/250-SI
NH-SLS-2/400

NH-SLS-2/400-SI
NH-SLS-3/630
NH-SLS-3/630-SI



① NH-SLS...-SI
(with safety monitoring)

