

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

Page 16/28

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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Fuse bases

- Integrated terminal covers
- Double terminals

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Miniature circuit-breakers, residual-current circuit-breakers



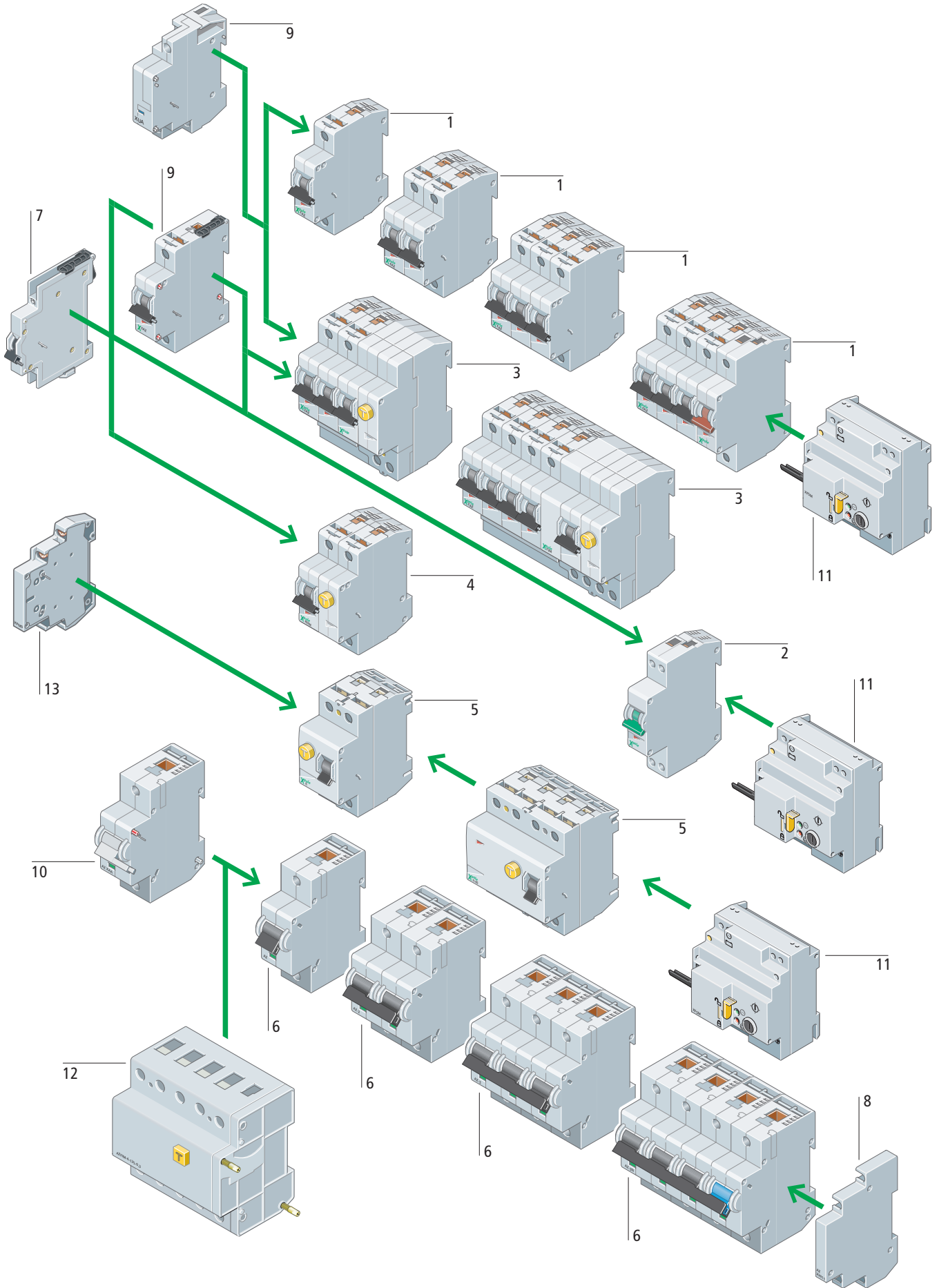
Fuse bases, Fuse switch-disconnectors



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Miniature circuit-breakers
Residual-current circuit-breakers



Miniature circuit-breakers, residual-current circuit-breakers

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Base units		Add-on functions	
Miniature circuit-breakers FAZ	1	Auxiliary contacts FAZ	7
Characteristics/rated current ranges		Standard auxiliary contacts	
B/4 ... 63 A; C/0,5 ... 63 A; D/6 ... 40 A		Trip-indicating auxiliary contact	
Switching capacity:		Auxiliary contacts	
15 kA to IEC/EN 60947-2		→ page 16/17	
B, C, D characteristic		Auxiliary contacts AZ	8
1-, 1N-, 2-, 3-, 3N-, 4-pole		Standard auxiliary contacts	
Special miniature circuit-breakers for auxiliary circuits (1 and 2 pole)		→ page 16/17	
Special miniature circuit-breaker for DC-applications up to 500 V DC		FAZ voltage releases	9
→ page 16/4		Undervoltage release	
FAZ-PN miniature circuit-breakers	2	Shunt release	
Characteristic/rated current ranges		Can be fitted to FAZ or FAZ-FIM	
B/6 ... 40 A; C/2 ... 40 A		→ page 16/17	
Switching capacity:		Voltage releases AZ	10
6 kA to IEC/EN 60898		Shunt release	
B, C characteristic		→ page 16/17	
1 N pole		Residual-current auxiliary contact	13
→ page 16/8		Auxiliary contacts	
Residual current protective modules for attachment to FAZ	3	→ page 16/17	
Protection in the event of fault current		Remote switching module	11
Rated current range 40 ... 63 A		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	
Rated fault current 30 mA, 300 mA		→ page 16/20	
→ page 16/12			
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			
→ page 16/12			
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			
→ page 16/13			
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			
→ page 16/10			





FAZ-B

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Miniature circuit-breakers
Residual-current circuit-breakers

Rated current I_n A	1 pole			2 pole With 2 protected poles			3 pole With 3 protected poles		
	Part no. Article no.	Price see price list	Std. pack	Part no. Article no.	Price see price list	Std. pack	Part no. Article no.	Price see price list	Std. pack

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	1 off
	5	FAZ-B5/1 278528			
	6	FAZ-B6/1 278529		FAZ-B6/2 278728	1 off
	8	FAZ-B8/1 278530		FAZ-B8/2 278729	
	10	FAZ-B10/1 278531		FAZ-B10/2 278730	
	12	FAZ-B12/1 278532		FAZ-B12/2 278731	
	13	FAZ-B13/1 278533		FAZ-B13/2 278732	
	15	FAZ-B15/1 278534		FAZ-B15/2 278733	
	16	FAZ-B16/1 278535		FAZ-B16/2 278734	
	20	FAZ-B20/1 278536		FAZ-B20/2 278735	
	25	FAZ-B25/1 278537		FAZ-B25/2 278736	
	32	FAZ-B32/1 278538		FAZ-B32/2 278737	
40	FAZ-B40/1 278539		FAZ-B40/2 278738		
50	FAZ-B50/1 278540		FAZ-B50/2 278739		
63	FAZ-B63/1 278541		FAZ-B63/2 278740		

Switching capacity
(IEC/EN 60898) 10 kA

Switching capacity
(IEC/EN 60947-2) 15 kA

Accessories

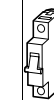
Auxiliary contacts → 16/17

Voltage releases

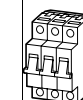
Mounting accessories → 16/18

FAZ-B4/1-HS, FAZ-B4/2-HS special miniature
circuit-breakers with much reduced let-through
energy to prevent contact welding of aux-
iliary contacts

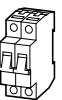
1 pole
Depth 71 mm
Width 17.5 mm



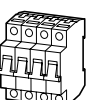
3 pole
Depth 71 mm
Width 52.5 mm



2-pole; 1N-pole
Depth 71 mm
Width 35 mm



4-pole; 3-pole + N
Depth 71 mm
Width 70 mm



Miniature circuit-breakers
Residual-current circuit-breakers





FAZ-C, FAZ-D

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Rated current I_n A	1 pole			2 pole With 2 protected poles			3 pole With 3 protected poles		
	Part no. Article no.	Price see price list	Std. pack	Part no. Article no.	Price see price list	Std. pack	Part no. Article no.	Price see price list	Std. pack

Miniature circuit-breakers FAZ

Characteristic C Instantaneous release response current 5 ... 10 $\times I_n$ 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		
50	FAZ-C50/1 278566		FAZ-C50/2 278765		FAZ-C50/3 278878		
63	FAZ-C63/1 278567		FAZ-C63/2 278766		FAZ-C63/3 278879		
Characteristic D Instantaneous release response current 10 ... 20 $\times I_n$ Switching capacity 15 kA (IEC/EN 60947-2)	6	FAZ-D6/1 278578	12 off	FAZ-D6/2 278777	1 off	FAZ-D6/3 278890	1 off
	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		FAZ-D25/2 278785		FAZ-D25/3 278898	
	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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Part no. Article no.	Price see price list	Std. pack	4 pole With 4 protected poles			2 pole With 1 protected pole, N switching with pole			4 pole With 3 protected poles, N switching with poles		
			Part no. Article no.	Price see price list	Std. pack	Part no. Article no.	Price see price list	Std. pack	Part no. Article no.	Price see price list	Std. pack

FAZ-C0,5/4 279044		1 off	FAZ-C,5/1N 278657		1 off	FAZ-C0,5/3N 278958		1 off
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		

Notes

Switching capacity (IEC/EN 60898) 10 kA
Switching capacity (IEC/EN 60947-2) 15 kA

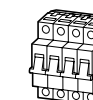
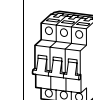
Accessories Page
Auxiliary contacts, voltage releases → 16/17
Mounting accessories → 16/18

1 pole Depth 71 mm Width 17.5 mm
2 pole; 1 N pole Depth 71 mm Width 35 mm



3 pole Depth 71 mm Width 52.5 mm

4 pole; 3N pole Depth 71 mm Width 70 mm





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-breakersCharacteristic B Instantaneous release
response current $3 \dots 5 \times I_n$ Switching
capacity 6 kA (IEC/EN 60898)

6	FAZ-PN-B6/1N 279146	
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	

12 off

Accessories

Auxiliary contacts → 16/17

Voltage releases

1 N pole
Depth 71 mm
Width 17.5 mmCharacteristic C Instantaneous release
response current $5 \dots 10 \times I_n$ Switching
capacity 6 kA (IEC/EN 60898)

2	FAZ-PN-C2/1N 279154	
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	

12 off



Miniature circuit-breaker for DC application

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FAZ...-DC



Miniature circuit-breakers
Residual-current circuit-breakers

Rated current I_n A	1 pole			2 pole With 2 protected poles			Std. pack
	Part no. Article no.	Price see price list	Std. pack	Part no. Article no.	Price see price list	Std. pack	
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	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
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			

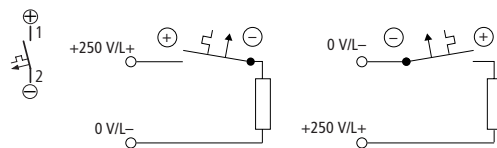


Note

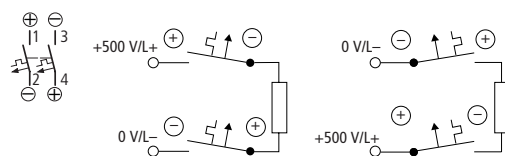
Circuit design notes

Note polarity!

1 pole



2 pole








AZ

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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 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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AZ



Rated current I_n A	4 pole With 4 protection poles 		Std. pack	4 pole With 3 protection poles, N switching with poles 		Std. pack
	Part no. Article no.	Price see price list		Part no. Article no.	Price see price list	

Characteristic C Instantaneous release response current 5 ... 10 $\times I_n$ Switching capacity 15 ... 25 kA (IEC/EN 60947-2)	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			
Characteristic D Instantaneous release response current 10 ... 20 $\times I_n$ Switching capacity 15 ... 25 kA (IEC/EN 60947-2)	AZ-4-D50 211817	1 off	AZ-3N-D50 211817	1 off
	AZ-4-D63 211820		AZ-3N-D63 211821	
	AZ-4-D80 211824		AZ-3N-D80 211825	
	AZ-4-D100 211828		AZ-3N-D100 211829	

Notes

For switching capacity refer to Technical Data

Accessories

Auxiliary contacts, Voltage releases → 16/17

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



Ordering

Residual-current protective modules for FAZ and AZ



FIM, AZFIMP, AZFIMS

Moeller HPL0211-2007/2008

<http://catalog.moeller.net>

Miniature circuit-breakers
Residual-current circuit-breakers

		2 pole			4 pole						
Rated uninterrupted current I_u	A	Part no. Article no.	Price see price list	Std. pack	Part no. Article no.	Price see price list	Std. pack	Part no. Article no.	Price see price list	Std. pack	
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	
Residual-current protective modules for AZ											
Rated uninterrupted current I_u	A	2 pole			4 pole			4 pole Selective			
			Part no. Article no.	Price see price list	Std. pack		Part no. Article no.	Price see price list		Part no. Article no.	Price see price list
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

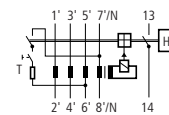
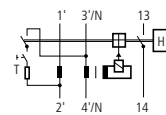
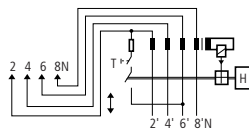
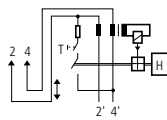
Notes

FIM-.../2/...

FIM-.../4/...

AZFIMP-2-...

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





		2 pole		2 pole		
Rated current		Part no. Article no.	Price see price list	Part no. Article no.	Price see price list	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

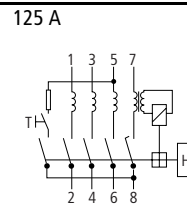
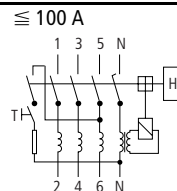
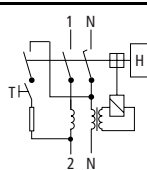
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Miniature circuit-breakers
Residual-current circuit-breakers

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 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

A

Part no.
Article no.

Price
see price list

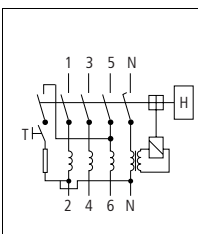
Std. pack

Notes

Suitable for frequency inverters, type U

Rated fault current $I_{\Delta N} = 100$ mA	40	FI-40/4/01-U 279234
	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

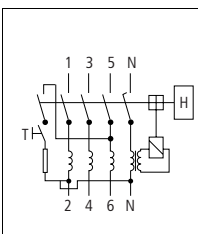
1 off



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
Rated fault current $I_{\Delta N} = 300$ mA	63	FI-63/4/03-S/A 279229
		FI-80/4/03-S/A 279230

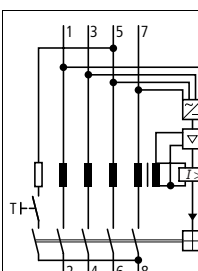
1 off



Sensitive to AC/DC, B type

Rated fault current $I_{\Delta N} = 30$ mA	40	FI-40/4/003-B 240710
	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

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

AC/DC, selective, B type

Rated fault current $I_{\Delta N} = 300$ mA	40	FI-40/4/03-S/B 281022
	63	FI-63/4/03-S/B 281023
	80	FI-80/4/03-S/B 281024

1 off

Notes

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

Miniature circuit-breakers
Residual-current circuit-breakers





FI

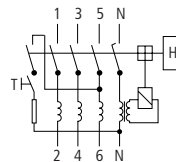
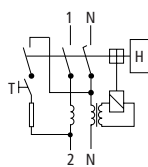
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Miniature circuit-breakers
Residual-current circuit-breakers

Rated uninterrupted current I_u A	2 pole		Std. pack	4 pole		Std. pack	4 pole Selective and surge-proof 5 kA		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	
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			1 off			
	25	FI-25/2/003 279177			FI-25/4/003 279196				
	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

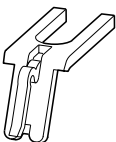

Miniature circuit-breakers
Residual-current circuit-breakers





	Phases Number	Devices Number	Part no. Article no.	Price see price list	Std. pack	Notes
Euro-Vario busbars (fork connector)						
For FAZ..., FI...						
<ul style="list-style-type: none"> • 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
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

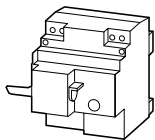




Part no. Article no.	Price see price list	Std. pack
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Remote switching modules

- 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 (-XFSM)
- ...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 live 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
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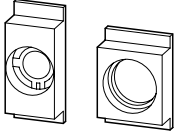
0.5 A

Z-FW/050 248301		4 off
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	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																																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Dimensions (W × H × D)</th> <th>Rated operational current <i>I_e</i></th> <th>Cu factor</th> <th>Part no. Article no.</th> <th>Price see price list</th> <th>Std. pack</th> </tr> <tr> <th>mm</th> <th>A</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td colspan="6">Busbars</td> </tr> <tr> <td colspan="6">Flat copper busbars, tinned</td> </tr> <tr> <td>12 x 5 Supplied in lengths of 1500 mm</td> <td>160</td> <td>0,81</td> <td>CU12X5 034121</td> <td></td> <td>10 off</td> </tr> <tr> <td>20 x 5 Supplied in lengths of 1500 mm</td> <td>250</td> <td>1,34</td> <td>CU20X5 044092</td> <td></td> <td>10 off</td> </tr> <tr> <td>20 x 10 Supplied in lengths of 1500 mm</td> <td>400</td> <td>2,68</td> <td>CU20X10 041719</td> <td></td> <td>5 off</td> </tr> </tbody> </table>							Dimensions (W × H × D)	Rated operational current <i>I_e</i>	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
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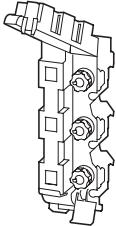

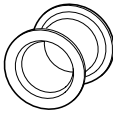






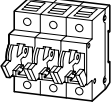
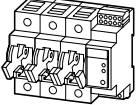
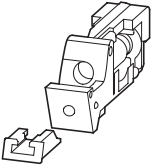
D02, Z-D0...

Moeller HPL0211-2007/2008

<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 <ul style="list-style-type: none"> • 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) <ul style="list-style-type: none"> • 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	
	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 <ul style="list-style-type: none"> • 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	
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 <ul style="list-style-type: none"> • Snap-fit on DIN rail • in a plastic box in the colour of the indicator 	D02-D01	2	Z-D02-D01/PE-2 263112
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 <ul style="list-style-type: none"> • For inserting D01 fuses links in the screw cap Z-D02/SK 	D02-D01		Z-D02/SIKA-HF 263149		50 off

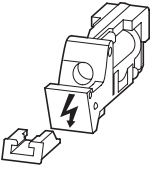
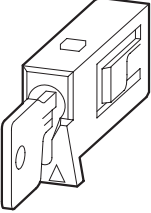
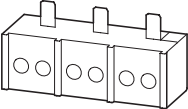


	Pole	Rated uninterrupted current I_u	Fuse cartridge Size	Part no. Article no.	Price see price list	Std. pack	
fuse switch-disconnector							
Standard, empty 	1	max. 63	D02, D01	Z-SLS/NEOZ/1 248235		12 off	
	1 + N			Z-SLS/NEOZ/1+N 248237		6 off	
	2			Z-SLS/NEOZ/2 248233		6 off	
	3			Z-SLS/NEOZ/3 248234		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						
<ul style="list-style-type: none"> • 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

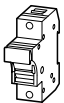

Miniature circuit-breakers
Residual-current circuit-breakers





	Rated uninterrupted current I_u	Fuse cartridge Size	Part no. Article no.	Price see price list	Std. pack
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					
<ul style="list-style-type: none"> 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					
<ul style="list-style-type: none"> 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					
<ul style="list-style-type: none"> For Z-SLS/NEOZ, Z-SLK/NEOZ, Z-SLS/CEK 2 × 3 × 35 mm² 					
			Z-SLZ/KL 268982		15 off

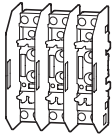
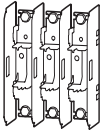
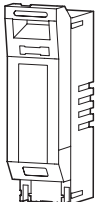
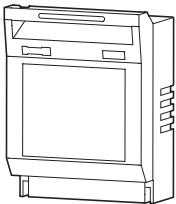


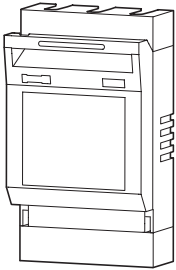


	Pole	Part no. Article no.	Price see price list	Std. pack
Fuse switch-disconnectors, empty				
• For cylindrical fuses				
	Size 14 × 51, up to 50 A			
	Without flashing function			
	1	VLC14-1P 285361		12 off
	1 + N	VLC14-1P+N 285362		12 off
	2	VLC14-2P 285363		12 off
	3	VLC14-3P 285364		12 off
	3 + N	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
2	VLC14-2P/L 285373		12 off	
3	VLC14-3P/L 285374		12 off	
3 + N	VLC14-3P+N/L 285375		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	

Miniature circuit-breakers
Residual-current circuit-breakers





		Interval between busbar centres mm	Busbar size mm	Rated operational current I_e A	Max. fuse			Part no. Article no.	Price see price list	Std. pack
					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	60	20 ... 30 × 5 ... 10	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



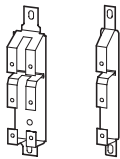



- ¹⁾ Can be fitted to GSTA00-160 for 4-pole low-voltage h.b.c. fuse switch-disconnector
Two devices can be combined to make a 2-pole low-voltage h.b.c. fuse switch-disconnector



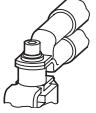
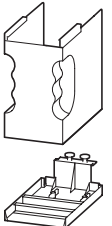


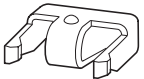
	For use with	Part no. Article no.	Price see price list	Std. pack
Clip set				
Can be retrofitted, adjustable For latching on to two top-hat rails to IEC/EN 60715 (35 mm) For distances of 100 to 125 mm between busbar centres				
	GSTA00-160	C-GSTA00 040922		5 off
Sets of clamp-type terminals				
One set comprises 3 clamptype terminals				
	Terminal range 1 × (70 150) mm ² Cu/Al	GSU1, GST...1	PSK1 038734	1 off
	Terminal range 1 70 150) mm ² Cu/Al	GSU2, GST...2	PSK2 043480	1 off
	Terminal range 1 × (120 300) mm ² 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) mm ² Cu/Al	GSU1, GST...1	PSK12 041107	1 off
	Terminal range 2 × (120 150) mm ² Cu/Al	GSU2, GST...2	PSK22 045853	1 off
	Terminal range 2 × (120 240) mm ² 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 disconnecter				
	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	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					
<ul style="list-style-type: none"> With connection area cover Mounting without holes with spike type terminal Equipment supplied <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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					
	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
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

Miniature circuit-breakers
Residual-current circuit-breakers



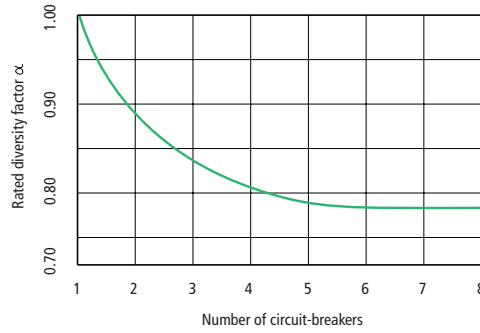


Influence of the ambient temperature on the thermal trip behaviour

Corrected values of the rated current dependent on the ambient temperature

I_n [A]	Ambient temperature T [°C]												
	-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	11	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

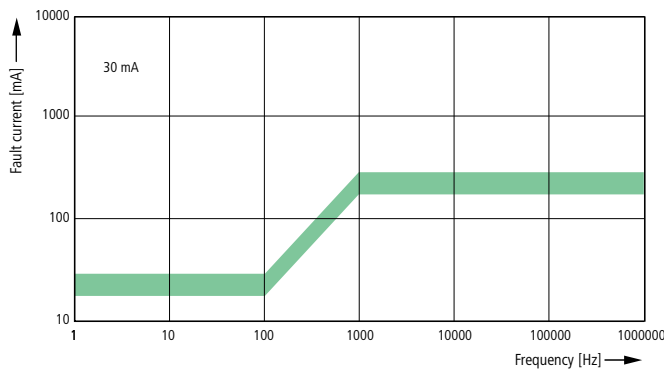
$I_{MA}(f)/I_{MA}(50\text{ Hz})$ [%]	Mains frequency f [Hz]						
	16 2/3	50	60	100	200	300	400
	91	100	101	106	115	134	141

Residual-current circuit-breakers

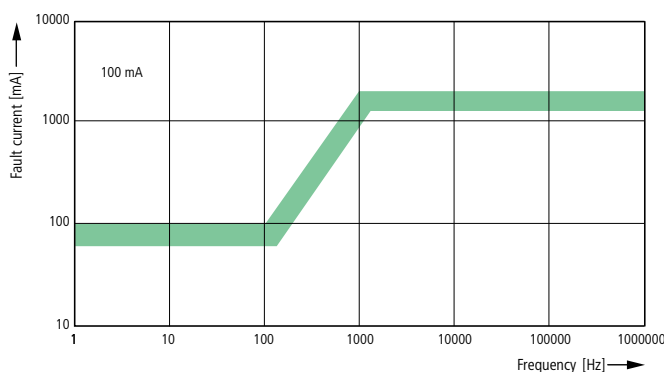
FI...-B

Frequency response of the tripping current

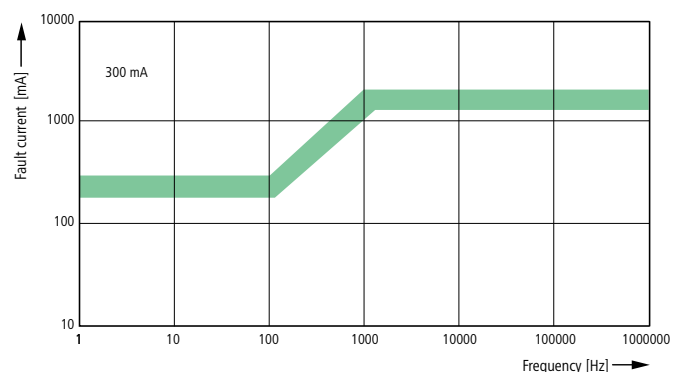
30 mA



100 mA



300 mA



Tripping characteristic for miniature circuit-breakers

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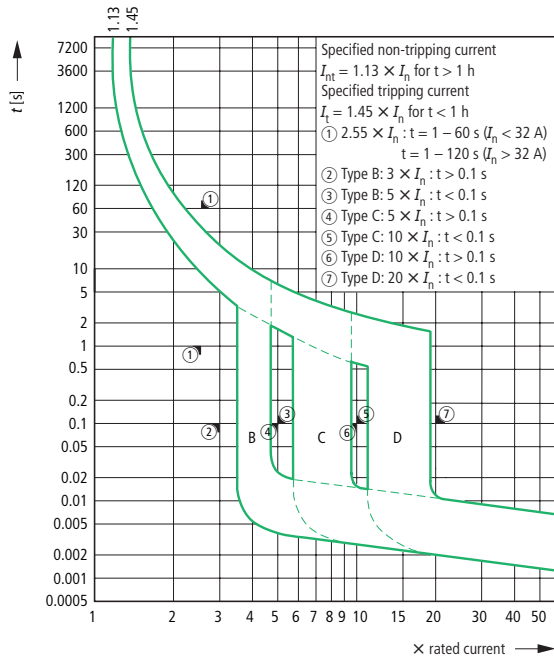
FAZ, AZ, PKNM



Miniature circuit-breakers

FAZ...

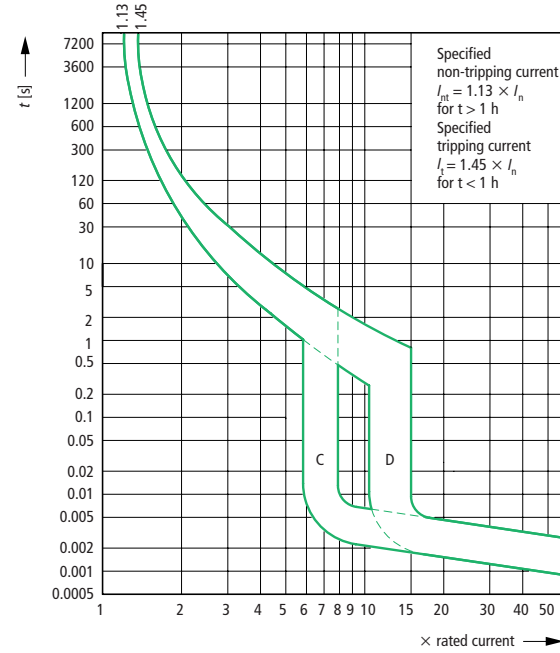
Tripping characteristic at 30 °C:
B, C, D to IEC/EN 60898



Miniature circuit-breakers

AZ...

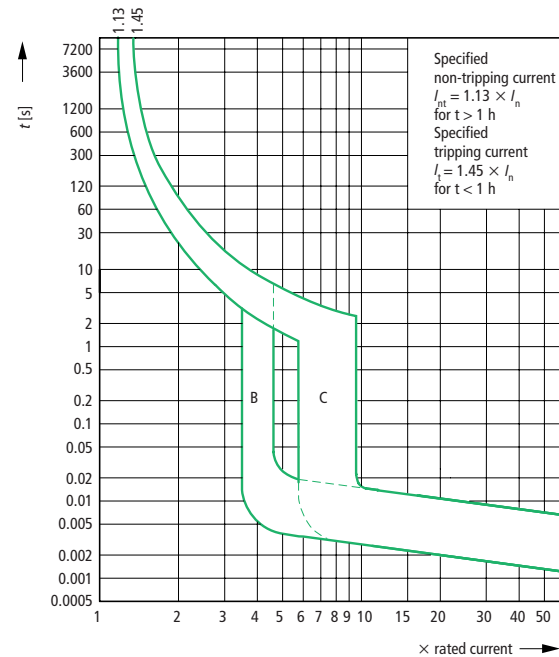
Tripping characteristic at 30°C:
C, D according to IEC/EN 60898



Combined RCD/MCB devices

PKNM...

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





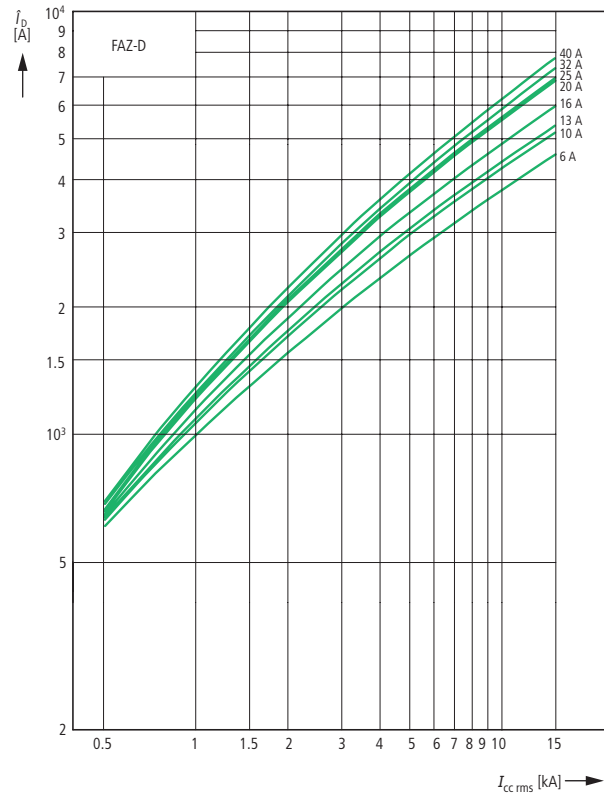
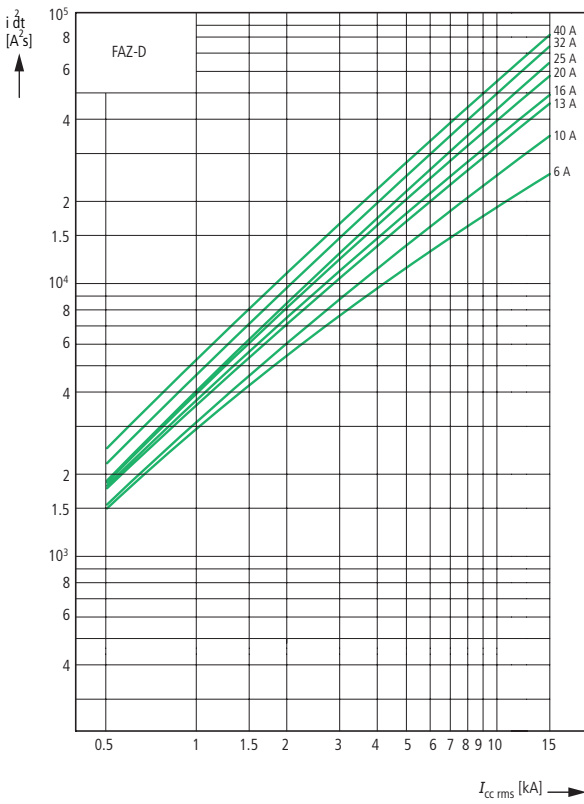
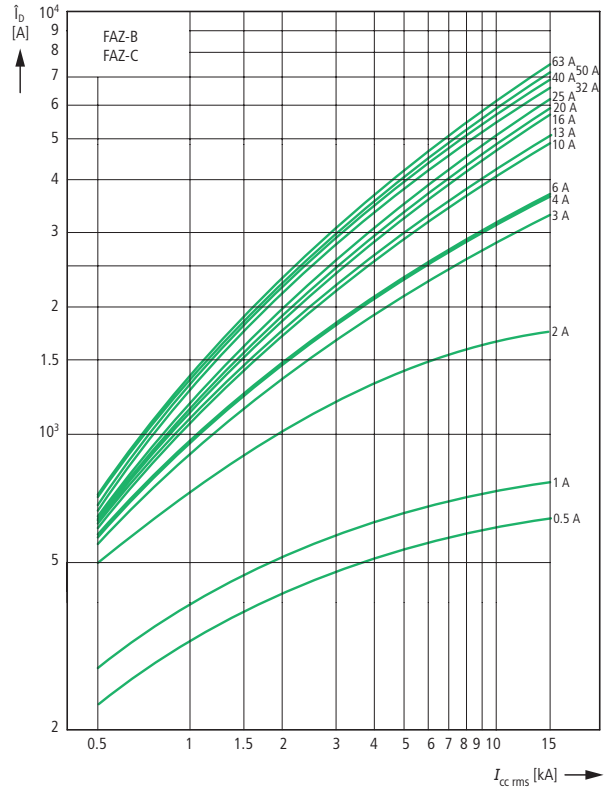
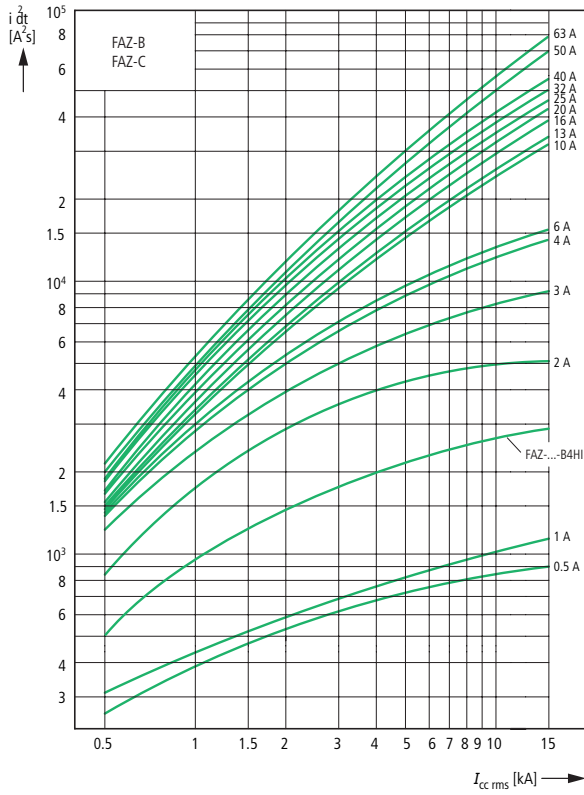
Miniature circuit-breakers

FAZ...

Let-through energy I^2t
According to IEC/EN 60898

Let-through current \hat{i}_D
According to IEC/EN 60898

Miniature circuit-breakers
Residual-current circuit-breakers

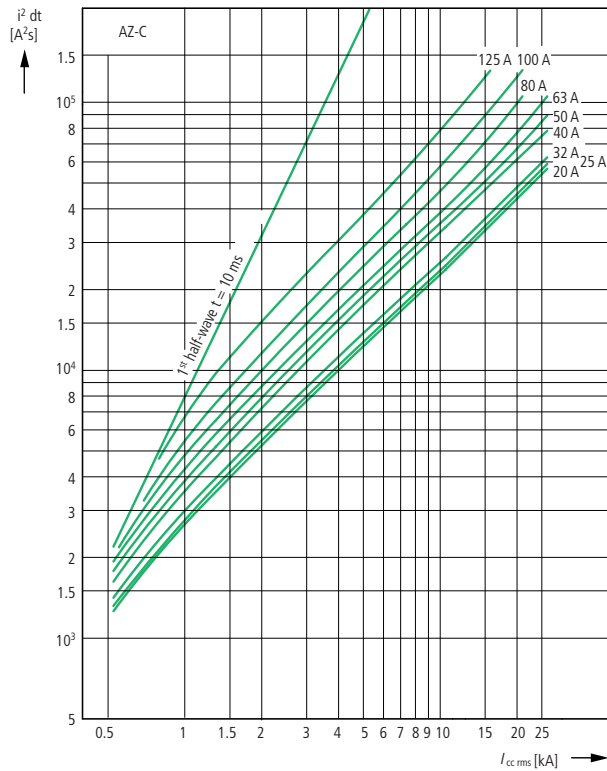




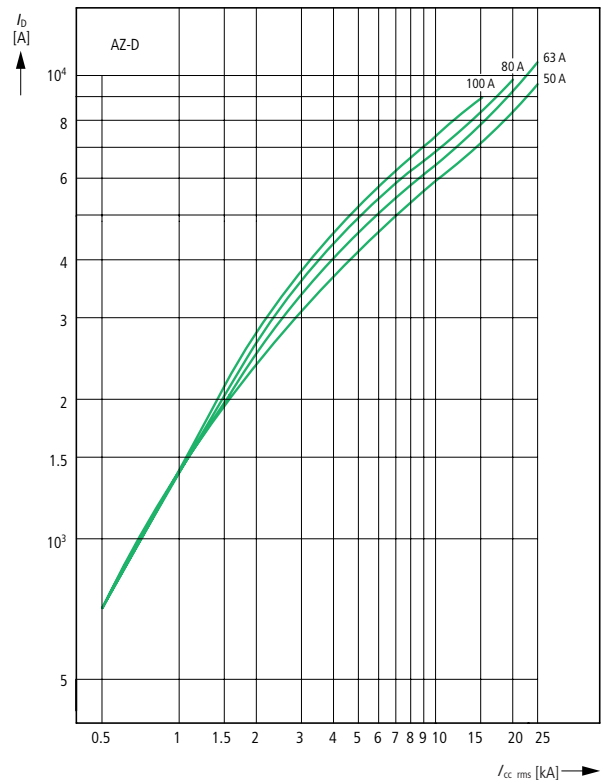
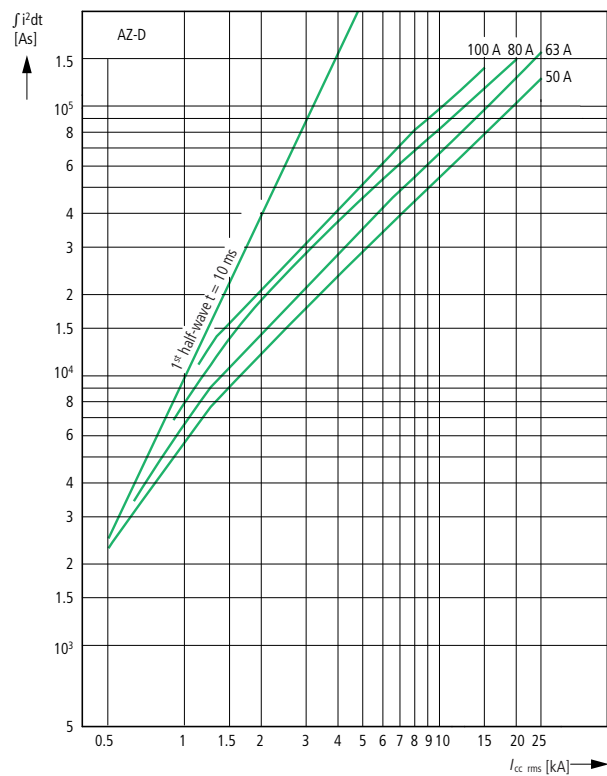
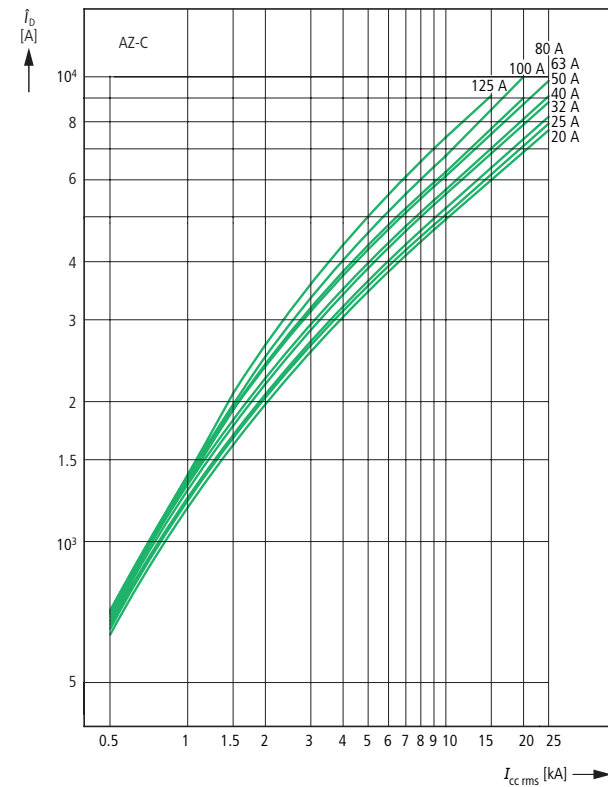
Miniature circuit-breakers

AZ...

Let-through energy I^2t



Let-through current \hat{I}_D

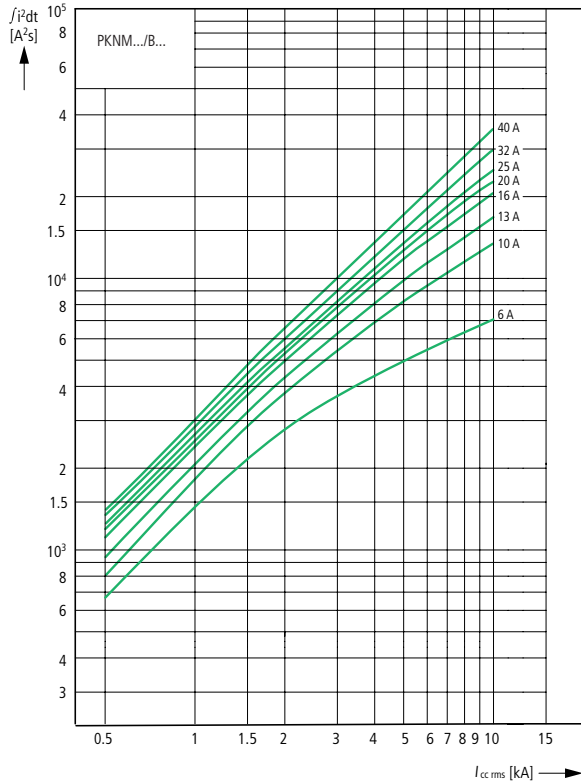




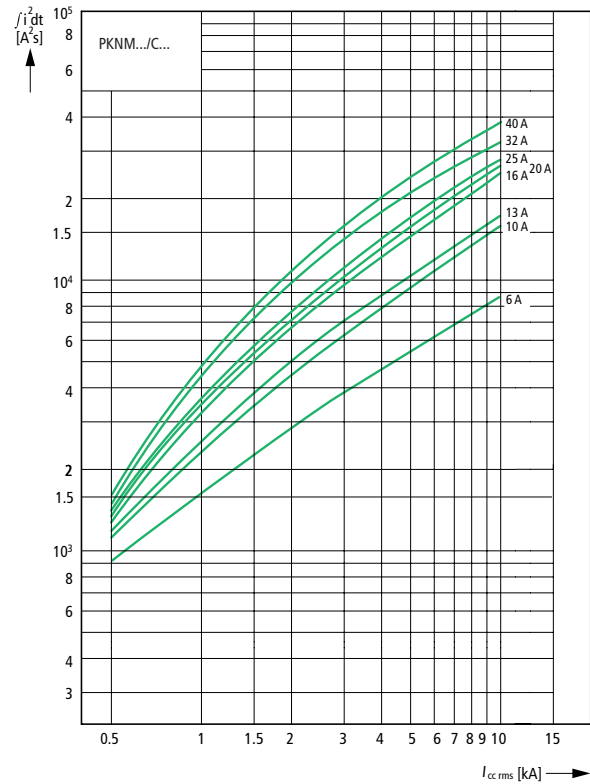
Combined RCD/MCB devices

PKNM-...

Let-through energy I^2t
According to IEC/EN 60898



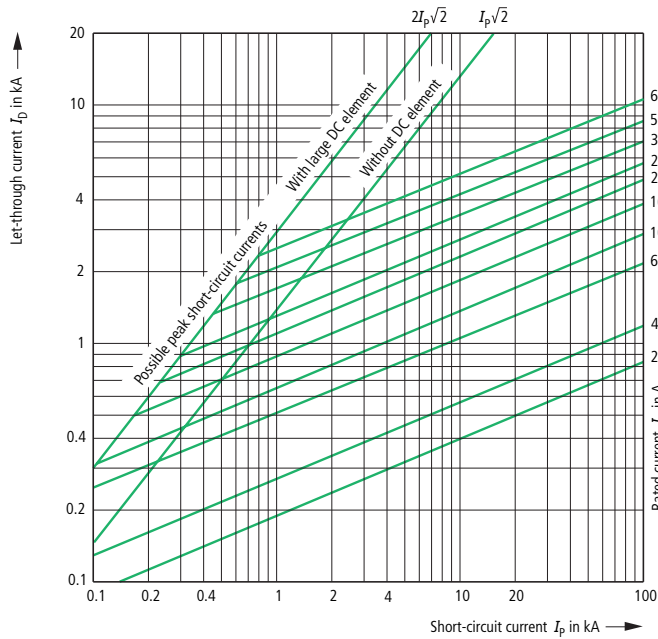
Let-through energy I^2t
According to IEC/EN 60898



Fuse

Z-DO.../S...

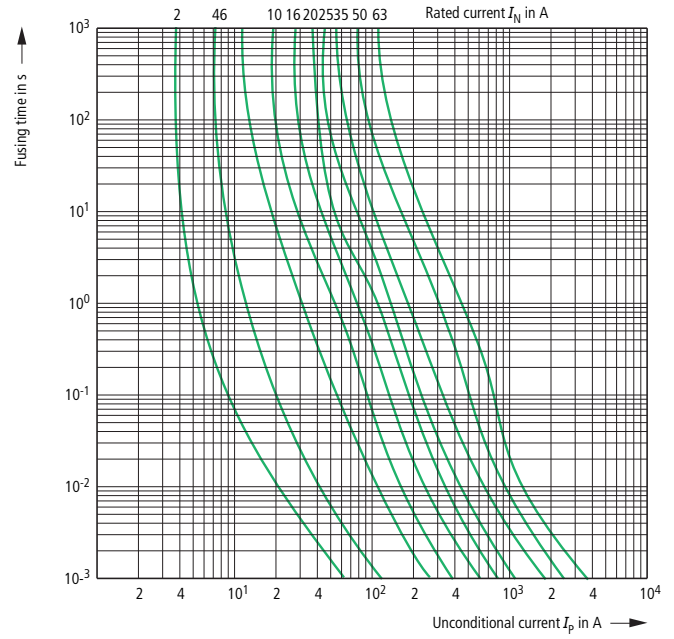
Let-through current characteristic curve



Fuse

Z-DO.../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				Pulsed current and AC/DC
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	$\times U_h$		–	–	–	–	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			≤ 1.2	≤ 1.2	0.8 ... 1.0	2.4	0.8





AZ-X..., FI-X...

Moeller HPL0211-2007/2008

<http://catalog.moeller.net>
 Miniature circuit-breakers
Residual-current circuit-breakers

				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 μ s)	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 \times (1 – 25) 2 \times (1 – 4)	1 \times (1 – 25) 2 \times (1 – 4)	2 \times (0.5 – 2.5) 1 \times (0.5 – 2.5)	2.5
	flexible	mm ²		1 \times (1 – 25) 2 \times (1 – 4)	1 \times (1 – 25) 2 \times (1 – 4)	2 \times (0.5 – 2.5) 1 \times (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			5		5	
Function			Automatic control			
Function selector			Automatic 5 ×, OFF/RESET			
Mechanical						
Standard front dimension			45		45	
Enclosure height			80		80	
Mounting width			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			<i>U_e</i> V AC V DC		400 400 250	
Rated short-circuit current tested with links			<i>I_e</i> kA		50 (AC) / 8 (DC) 50 (AC) / 8 (DC) 50	
Rated frequency			<i>f</i> Hz		40...60	
Rated operational current			<i>I_e</i> A		16 63 63	
Conventional thermal current with fuse links			<i>I_{th}</i> A		63	
Rated operating mode			Uninterrupted operation			
Overvoltage category			III			
Utilization category			AC 23 B			
Rated impulse withstand voltage			<i>U_{imp}</i> kV		– – 8	
Current heat loss per contact at <i>I_e</i>			W		– – 0.5	
Power loss						
Heat dissipation per contact with fuse link at <i>I_e</i>			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	
Mounting width			mm 27 (per pole)		27 (per pole)	
Weight			g 1P 76 3P 230		1P 76 3P 230	
Electrical hoist			E14		E18	
Mounting			Quick attachment for top-hat rail IEC/EN 60715			
Degree of protection			Integrated		IP30	
Terminals			Double function terminals			
Terminal capacities			Solid mm ² 1.5 ... 35		1.5 ... 35	
Temperature range			°C		–25 ... +55	
Specified tightening torque for terminal screws			Nm 2.5 ... 3		2.5 ... 3	
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



Fuse switch-disconnectors, safety material

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VLC, Z-D0..., Z-SLS...



			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			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

Miniature circuit-breakers
Residual-current circuit-breakers





LTS..., GST...

Moeller HPL0211-2007/2008

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 Miniature circuit-breakers
Residual-current circuit-breakers

			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

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

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Moeller HPL0211-2007/2008

NH-SLS



			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			
Rated impulse withstand voltage	U_{imp}	kV	8	12	12	12
Rated frequency			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			
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			20			
		mm	20	30	30	30
Ambient temperature range			-5 ... +40			
		°C	-5 ... +40	-5 ... +40	-5 ... +40	-5 ... +40
Degree of protection			IP30			
			IP30	IP30	IP30	IP30
Pollution degree			3			
			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.

Miniature circuit-breakers
Residual-current circuit-breakers





			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						
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			0.8 Nm			

Notes ¹⁾ With uninterrupted operation of several adjacent 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_{ν}	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





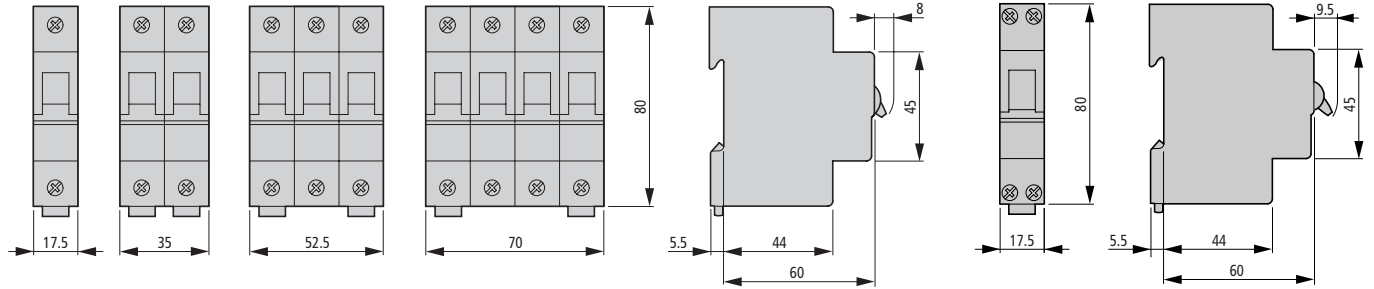
FAZ, AZ, FIM, PKNM, AZFIM

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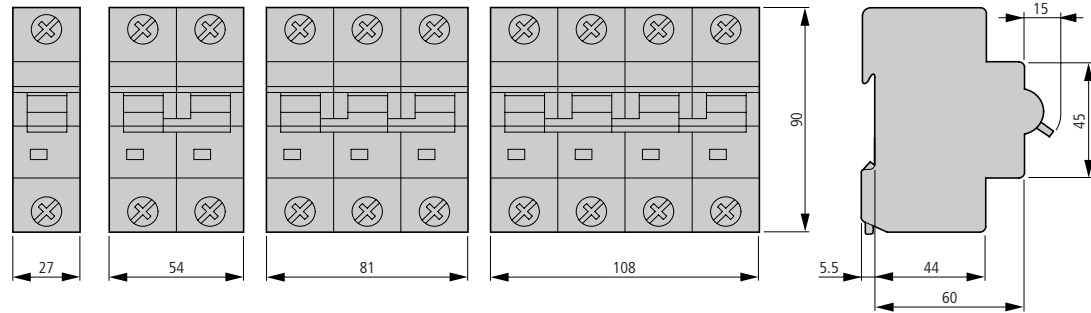
Miniature circuit-breakers

FAZ...



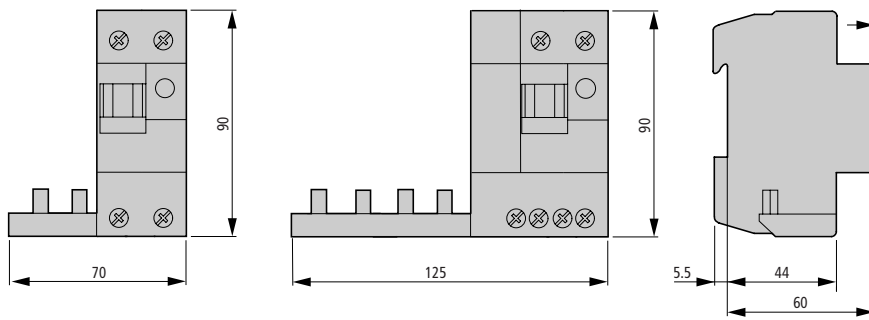
Miniature circuit-breakers

AZ...



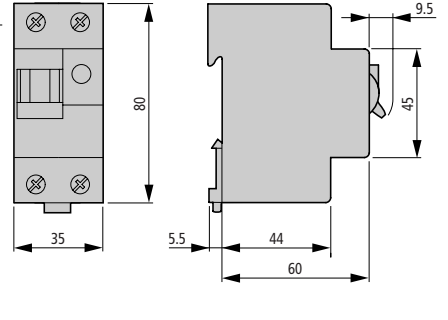
Residual-current protective modules

FIM...



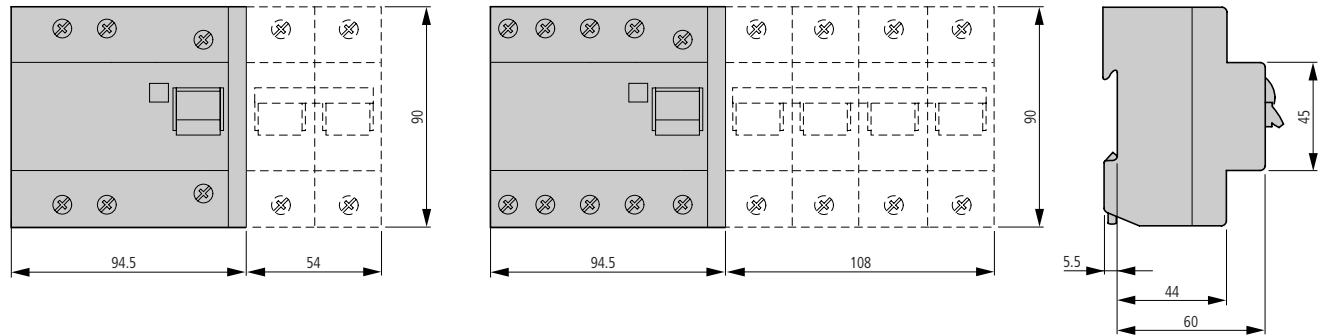
Combined RCD/MCB devices

PKNM...



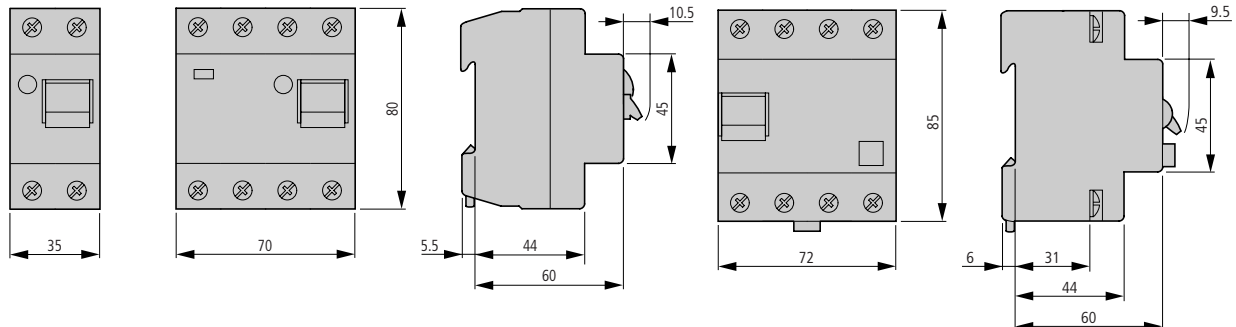
Residual-current protective modules

AZFIM...



Residual current device

FI...



Miniature circuit-breakers
Residual-current circuit-breakers

Shunt releases, undervoltage releases, restarting module

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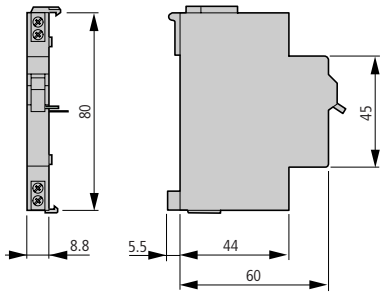
FAZ-X, AZ-X, FAZ/FIP, FIP(A), Z-FW



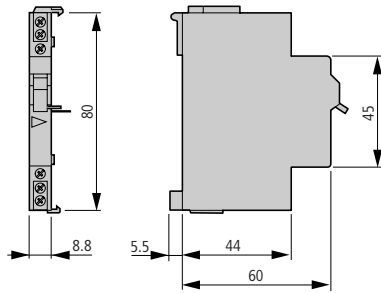
Miniature circuit-breakers
Residual-current circuit-breakers

Auxiliary contacts

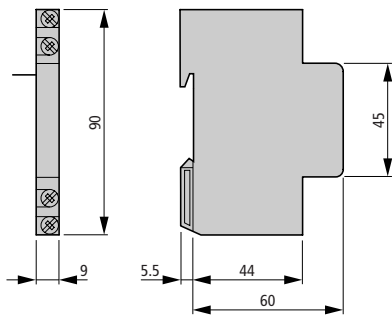
FAZ-XHIN11



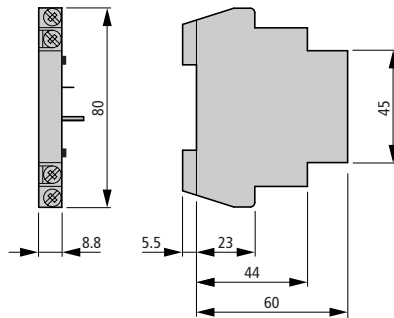
FAZ-XAM002



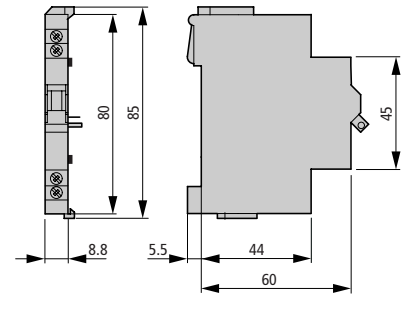
AZ-XHI11



FIP-XHI11

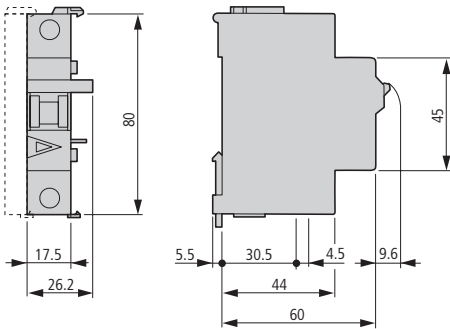


FIPA-XAM011



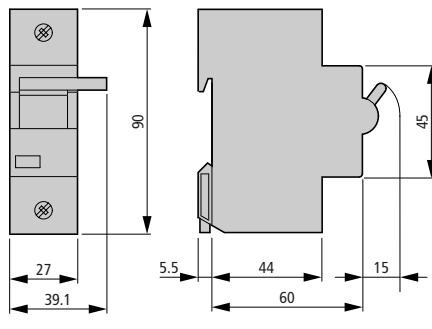
Shunt releases

FAZ-XAA-C...



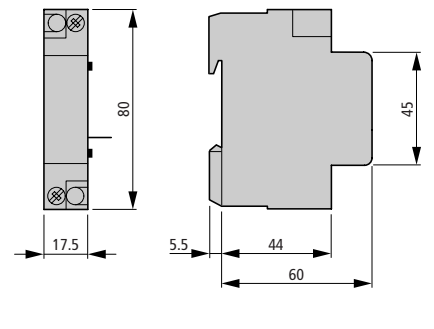
Shunt releases

AZ-XAA...



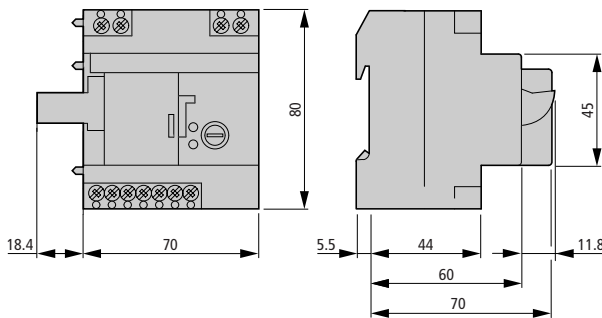
Undervoltage releases

FAZ-XUA...

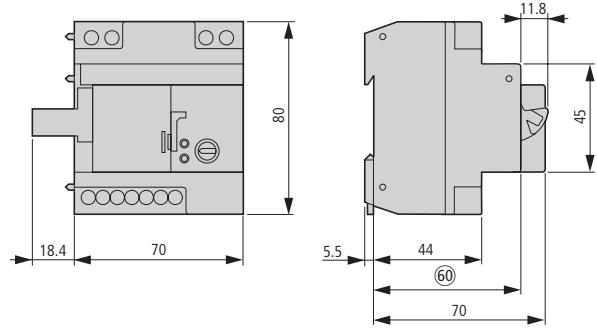


Restarting module

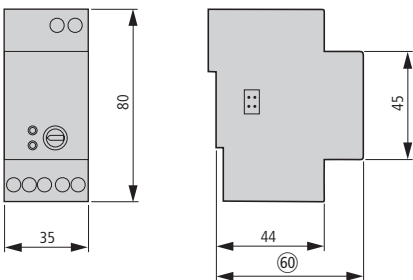
FAZ/FIP-...



Z-FW-LP
Z-FW-LPD



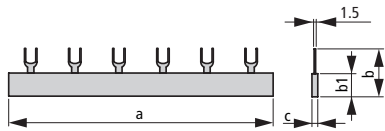
Z-FW-MO





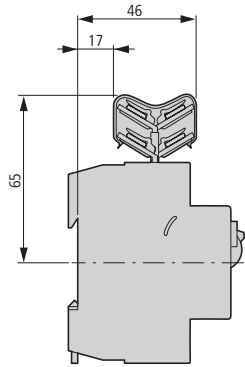
Busbars

EVG-16/...



Extension terminals

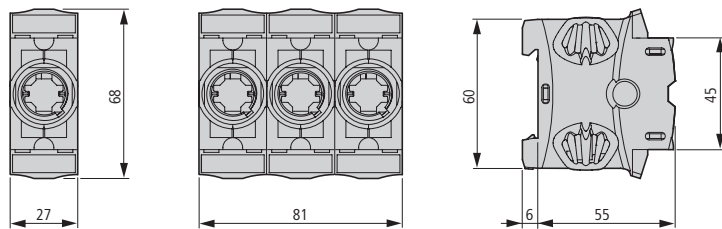
ZV-...-80A-...



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

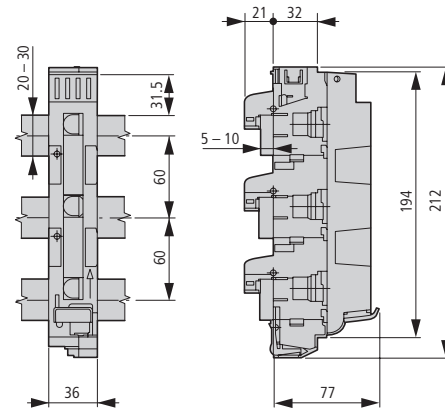
Fuse base

D01-SO/...
D02-SO/...



Busbar mounting switch-disconnector

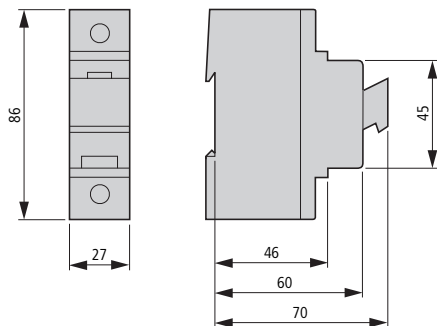
D02-S/63/3-RS



fuse switch-disconnector

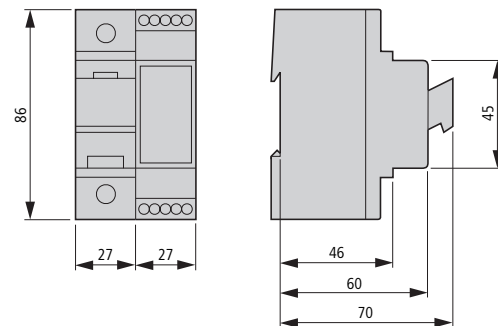
Standard, empty

Z-SLS/NEOZ/...



With fuse monitoring, empty

Z-SLK/NEOZ/...

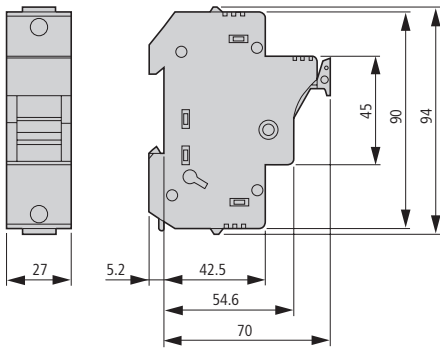


Miniature circuit-breakers
Residual-current circuit-breakers

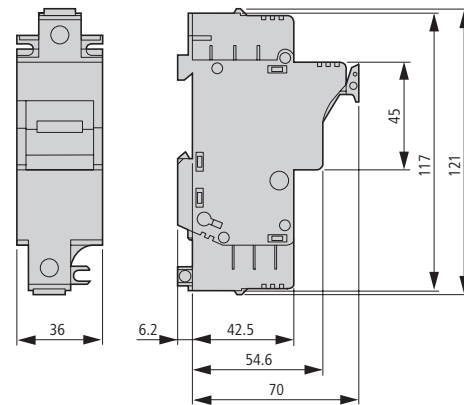


Fuse switch-disconnectors, empty

VLC14...



VLC22...



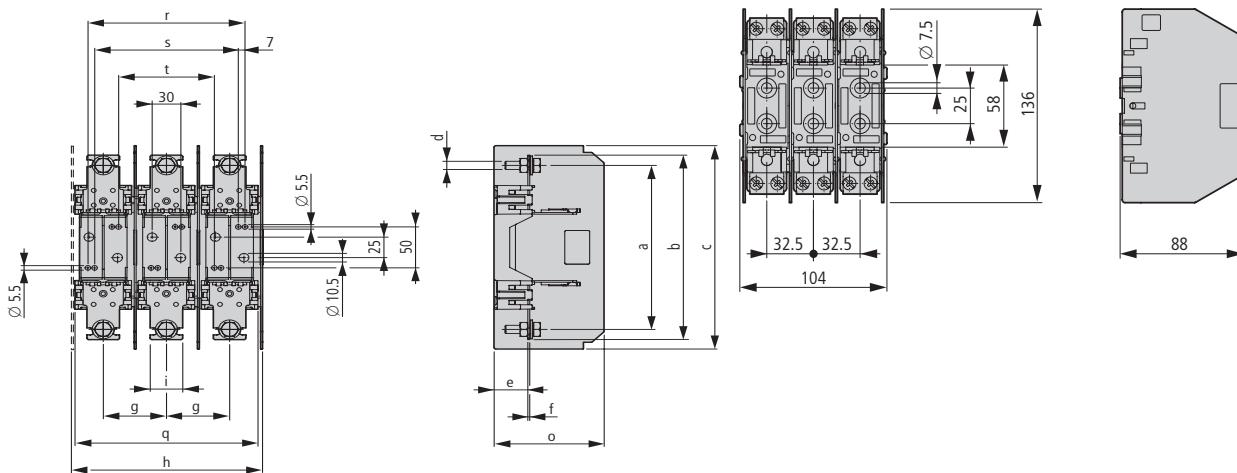
Low-voltage h.b.c. fuse base

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

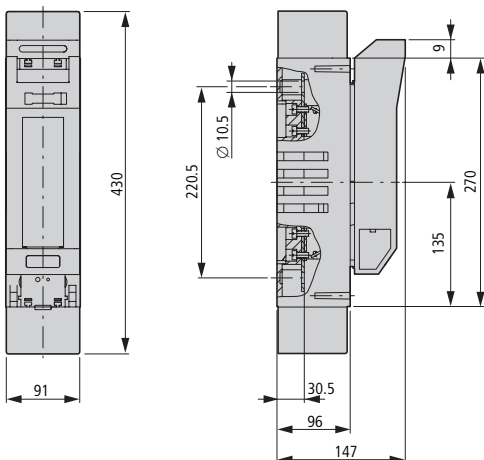
3 pole

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





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

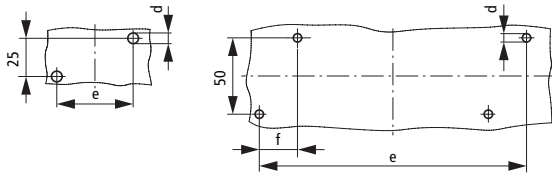
Drilling dimensions

GSTA00-160-1P

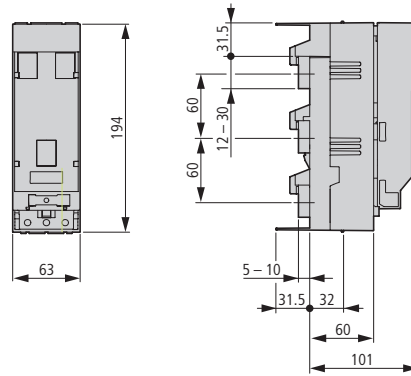
GSTA1

GSTA2

GSTA3

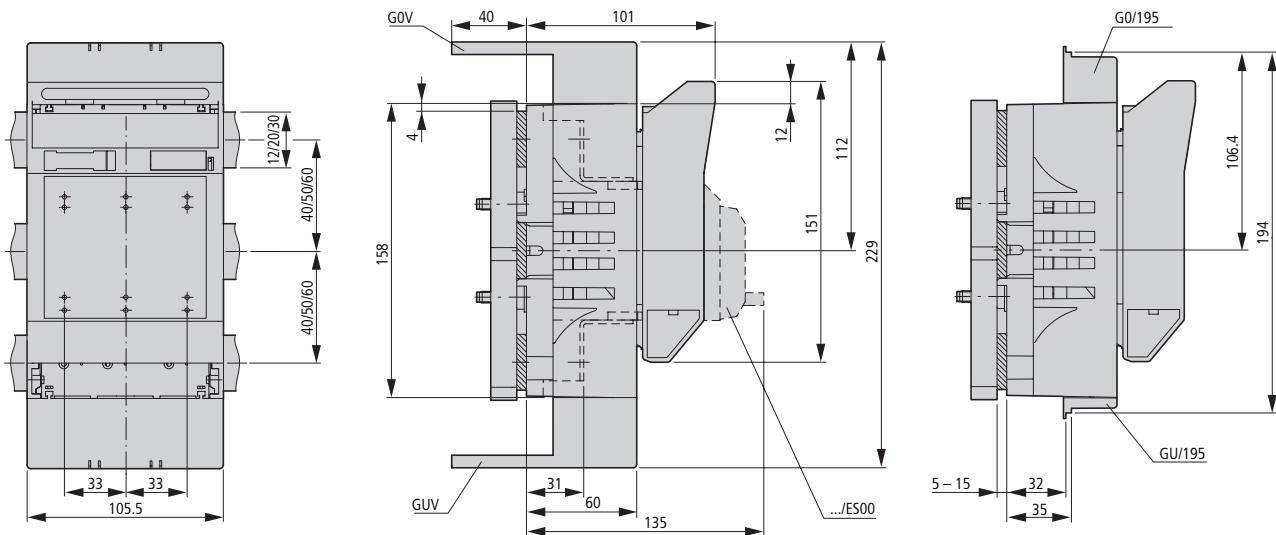


LTS-100/C00/3-R



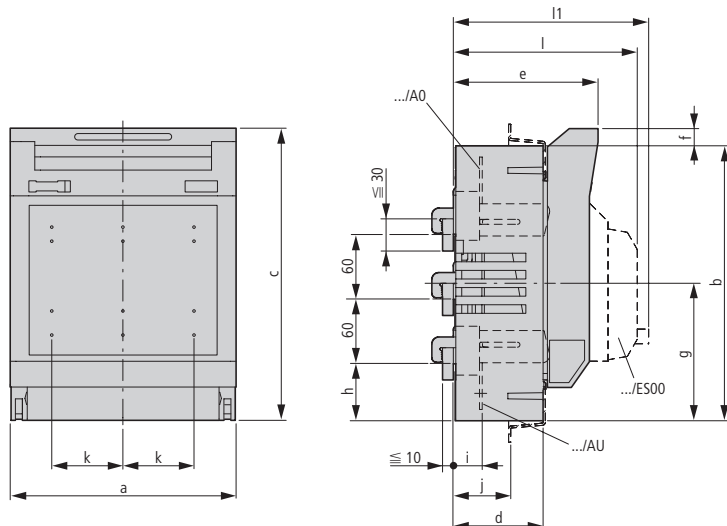
Part no.	a	a1	b	b1	b2	b3	b4	b5	c	c3	d	e	f
GSTA00-160-1P	49	-	169	79	149	120	-	-	86.5	-	7	-	-
GSTA00-160	106	66	169	79	149	120	25	26	86.5	197	7	50	-
GSTA1	182	116	250	115	230	184	30	23	111	294	5.5	150	-
GSTA2	208	132	275	128	256	217	30	19,5	125	330.5	5.5	175	25
GSTA3	254	164	283	135	270	238	30	16	142	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



Miniature circuit-breakers
Residual-current circuit-breakers

Fuse switch-disconnectors, NH fuse switch-disconnectors

http://catalog.moeller.net

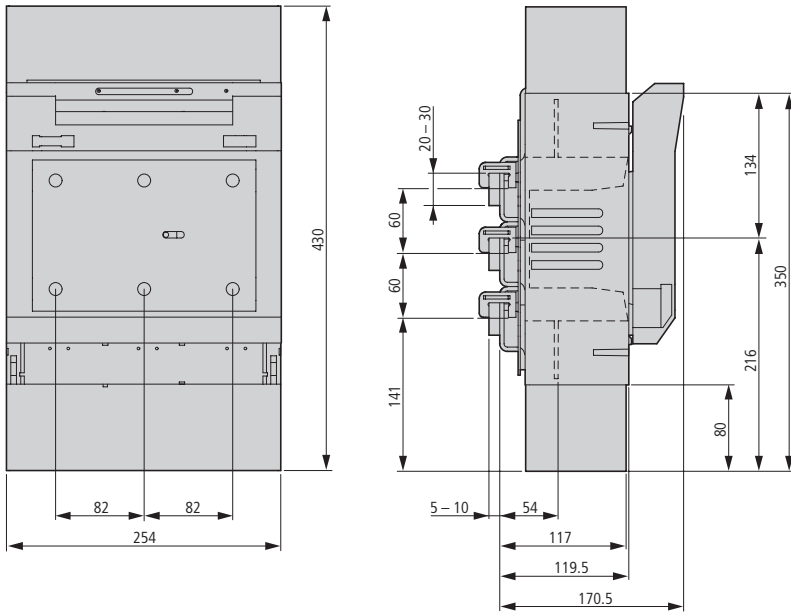
Moeller HPL0211-2007/2008

GST, NH-SLS



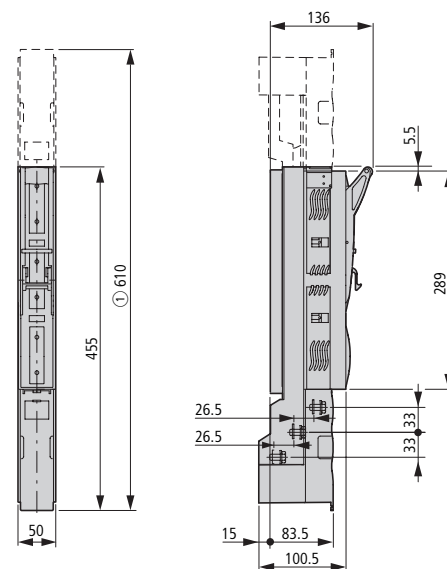
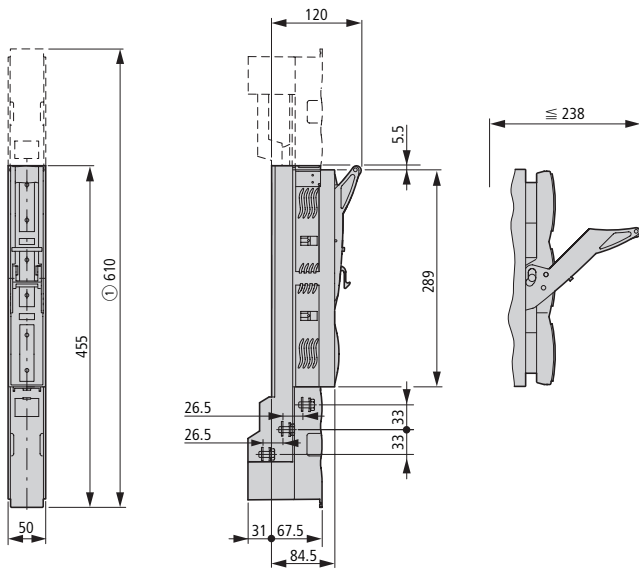
Low-voltage h.b.c. fuse switch-disconnectors

GST3-...



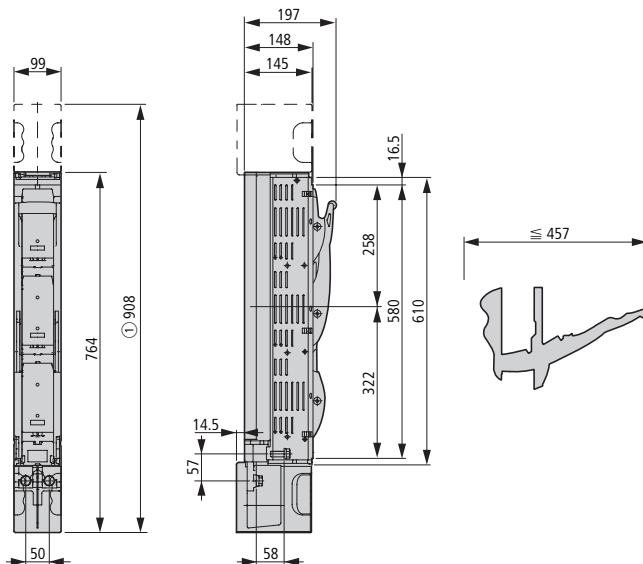
NH-SLS-00/160
NH-SLS-00/160-SI

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)

Miniature circuit-breakers
Residual-current circuit-breakers

