



Circuit-breakers, fuses

Tested quality, approvals and shipping classifications represent the functionality and safety suitable for world markets with industrial miniature circuit-breakers. Besides a comprehensive range of residual current devices, LV h.b.c. fuse bases and fuse switch-disconnectors is provided.

FAZ miniature circuit-breakers

Height 80 mm only +++ Installation and removal without disassembly of the rails +++ Double comfort terminal lift/claw +++ Terminal with rear plug protection → Page 19/4

Digital residual current device

Preventive information +++ Warning before tripping +++ Integrated auxiliary contact +++ Display for earth-fault release → Page 19/21

Fuse base

Integrated terminal covers +++ Double terminals → Page 19/42

Cylindrical fuse switch-disconnectors

With flash function on tripped fuse +++ can be sealed → Page 19/45

Fuse switch-disconnectors (empty) C10-FD

Cord protection for photovoltaic generator +++ Trip indicator signals tripped fuse link:
50 – 400 V: blinking, 400 – 1000 V: continuous light +++ Nominal current voltage 1000 V DC
+++ For cylindrical fuse inserts in photovoltaic applications +++ Sealable → Page 19/48

Circuit-breaker

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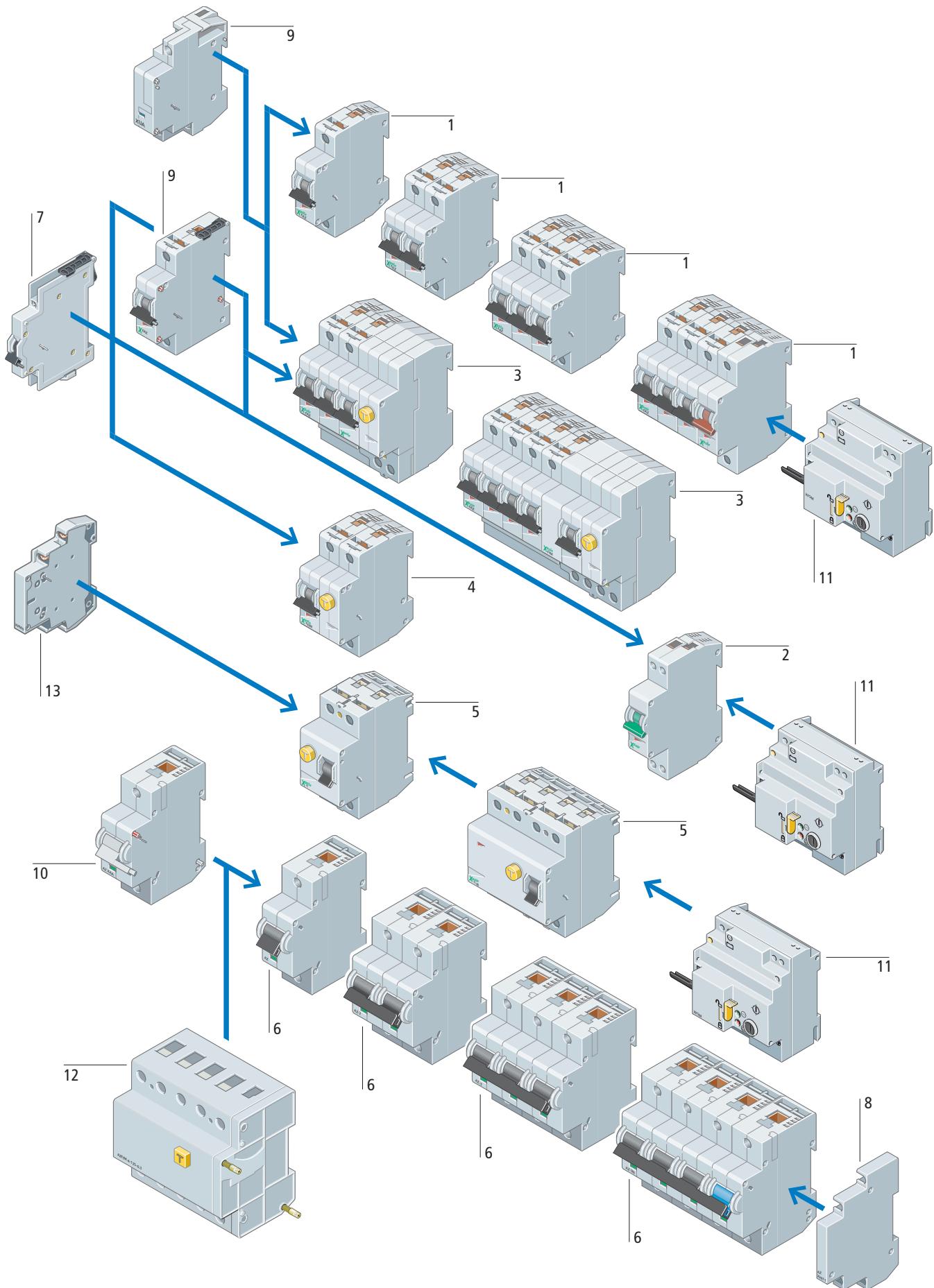
Dimensions

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System overview

Basic devices**FAZ miniature circuit-breakers** 1

Characteristic/rated operational current ranges
B/4 – 63 A; C/0.5 – 63 A; D/6 – 40 A;
K/0.5 - 63 A; S/1 - 40 A; Z/0.5 - 63 A

Switching capacity:

15 kA to IEC/EN 60947-2

B, C, D, K, S, Z characteristic

1-, 1N-, 2-, 3-, 3N-, 4 pole

Special miniature circuit-breaker for control circuits (1, 2 pole)

Special miniature circuit-breaker for DC applications up to 500 V DC

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FAZT miniature circuit-breakers 1

Characteristic/rated operational current ranges
B/1 - 25 A; C/1 - 25 A; D/1 - 16 A

Switching capacity:

25 kA to IEC/EN 60947-2

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FAZ-PN miniature circuit-breaker 2

Characteristic/rated operational current ranges
B/6 – 40 A; C/2 – 40 A

Switching capacity:

6 kA to IEC/EN 60898

B, C characteristic

1 N pole

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Residual-current protective modules for fitting to FAZ 3

Protection in the event of fault current

Rated current ranges 40 – 63 A

Rated fault current 30 mA, 300 mA

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Residual-current protective modules for fitting to AZ 12

Protection in the event of fault current

Rated current ranges 80 – 125 A

Rated fault current 30 mA, 300 mA

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PKNM combined device 4

Overload and short-circuit protection, and protection in the event of fault currents

Characteristic/rated operational current ranges

B/6-40 A; C/6-40 A; 1N pole

Switching capacity:

10 kA to IEC/EN 60898

Rated fault current 30 mA, 300 mA

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Add-on functions**FAZ auxiliary contact** 7

Standard auxiliary contact

Trip-indicating auxiliary contacts

Auxiliary contacts

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AZ auxiliary contact 8

Standard auxiliary contacts

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FAZ shunt releases 9

Undervoltage release

Shunt releases

Can be fitted to FAZ or FAZ-FIM

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AZ shunt releases 10

Shunt releases

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Fl auxiliary contact 13

Auxiliary contacts

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Remote switching module 11

Suitable for remote switching and automatic restart of a miniature circuit-breaker or RCCB, for remote trip testing of an RCCB in conjunction with a remote test module

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Rated operational current I_n A	1 pole		2 pole		3 pole				
	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 miniature circuit-breakers									
Characteristic B Instantaneous release response current 3 - 5 x 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	FAZ-B6/3 278841		1 off
	8	FAZ-B8/1 278530		FAZ-B8/2 278729			FAZ-B8/3 278842		
	10	FAZ-B10/1 278531		FAZ-B10/2 278730			FAZ-B10/3 278843		
	12	FAZ-B12/1 278532		FAZ-B12/2 278731			FAZ-B12/3 278844		
	13	FAZ-B13/1 278533		FAZ-B13/2 278732			FAZ-B13/3 278845		
	15	FAZ-B15/1 278534		FAZ-B15/2 278733			FAZ-B15/3 278846		
	16	FAZ-B16/1 278535		FAZ-B16/2 278734			FAZ-B16/3 278847		
	20	FAZ-B20/1 278536		FAZ-B20/2 278735			FAZ-B20/3 278848		
	25	FAZ-B25/1 278537		FAZ-B25/2 278736			FAZ-B25/3 278849		
	32	FAZ-B32/1 278538		FAZ-B32/2 278737			FAZ-B32/3 278850		
	40	FAZ-B40/1 278539		FAZ-B40/2 278738			FAZ-B40/3 278851		
	50	FAZ-B50/1 278540		FAZ-B50/2 278739			FAZ-B50/3 278852		
	63	FAZ-B63/1 278541		FAZ-B63/2 278740			FAZ-B63/3 278853		
Characteristic C Instantaneous release response current 5 - 10 x 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-C0,5/1 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			

4 pole		2 pole		4 pole		Notes	
Part no. Article no.	Price See price list	Part no. Article no.	Price See price list	Part no. Article no.	Price See price list	Std. pack	
FAZ-B6/4 279029		FAZ-B6/1N 278642		FAZ-B6/3N 278943		1 off	Switching capacity (IEC/EN 60898) 10 kA
FAZ-B8/4 279030		FAZ-B8/1N 278643		FAZ-B8/3N 278944			Switching capacity (IEC/EN 60947-2) 15 kA
FAZ-B10/4 279031		FAZ-B10/1N 278644		FAZ-B10/3N 278945			
FAZ-B12/4 279032		FAZ-B12/1N 278645		FAZ-B12/3N 278946			Accessories
FAZ-B13/4 279033		FAZ-B13/1N 278646		FAZ-B13/3N 278947			Auxiliary contacts → 19/24
FAZ-B15/4 279034		FAZ-B15/1N 278647		FAZ-B15/3N 278948			Shunt releases
FAZ-B16/4 279035		FAZ-B16/1N 278648		FAZ-B16/3N 278949			Mounting accessories → 19/25
FAZ-B20/4 279036		FAZ-B20/1N 278649		FAZ-B20/3N 278950			
FAZ-B25/4 279037		FAZ-B25/1N 278650		FAZ-B25/3N 278951			FAZ-B4/1-HS, FAZ-B4/2-HS
FAZ-B32/4 279038		FAZ-B32/1N 278651		FAZ-B32/3N 278952			Special miniature circuit-breakers with much reduced let-through energy to prevent contact weld of auxiliary contacts
FAZ-B40/4 279039		FAZ-B40/1N 278652		FAZ-B40/3N 278953			1 pole Depth 71 mm
FAZ-B50/4 279040		FAZ-B50/1N 278653		FAZ-B50/3N 278954			2 pole; 1 pole + N Depth 71 mm
FAZ-B63/4 279041		FAZ-B63/1N 278654		FAZ-B63/3N 278955			Width 17.5 mm Width 35 mm
FAZ-C0.5/4 279044		FAZ-C0.5/1N 278657		FAZ-C0.5/3N 278958		1 off	
FAZ-C1/4 279046		FAZ-C1/1N 278659		FAZ-C1/3N 278960			3 pole Depth 71 mm
FAZ-C1.6/4 279048		FAZ-C1.6/1N 278661		FAZ-C1.6/3N 278962			4 pole; 3 pole + N Depth 71 mm
FAZ-C2/4 279049		FAZ-C2/1N 278662		FAZ-C2/3N 278963			Width 52.5 mm Width 70 mm
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			

Rated operational current I _n A	1 pole		2 pole With 2 protected poles		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	
FAZ miniature circuit-breakers							
Characteristic D Instantaneous release response current 10 - 20 x 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	
	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	
Characteristic K Instantaneous release response current 8 - 12 x I _n Switching capacity 15 kA (IEC/EN 60947-2)							
	0.5	FAZ-K0,5/1 278589	12 off	FAZ-K0,5/2 278788	1 off	FAZ-K0,5/3 278901	1 off
	1	FAZ-K1/1 278590		FAZ-K1/2 278789		FAZ-K1/3 278902	
	1.6	FAZ-K0,5/1 278591		FAZ-K1,6/2 278790		FAZ-K1,6/3 278903	
	2	FAZ-K2/1 278592		FAZ-K2/2 278791		FAZ-K2/3 278904	
	3	FAZ-K3/1 278593		FAZ-K3/2 278792		FAZ-K3/3 278905	
	4	FAZ-K4/1 278594		FAZ-K4/2 278793		FAZ-K4/3 278906	
	6	FAZ-K6/1 278595		FAZ-K6/2 278794		FAZ-K6/3 278907	
	8	FAZ-K8/1 278596		FAZ-K8/2 278795		FAZ-K8/3 278908	
	10	FAZ-K10/1 278597		FAZ-K10/2 278796		FAZ-K10/3 278909	
	13	FAZ-K13/1 278598		FAZ-K13/2 278797		FAZ-K13/3 278910	
	16	FAZ-K16/1 278599		FAZ-K16/2 278798		FAZ-K16/3 278911	
	20	FAZ-K20/1 278600		FAZ-K20/2 278799		FAZ-K20/3 278912	
	25	FAZ-K25/1 278601		FAZ-K25/2 278800		FAZ-K25/3 278913	
	32	FAZ-K32/1 278602		FAZ-K32/2 278801		FAZ-K32/3 278914	
	40	FAZ-K40/1 278603		FAZ-K40/2 278802		FAZ-K40/3 278915	
	50	FAZ-K50/1 278604		FAZ-K50/2 278803		FAZ-K50/3 278916	
	63	FAZ-K63/1 278605		FAZ-K63/2 278804		FAZ-K63/3 278917	

4 pole With 4 protected poles	4 pole With 3 protected poles, N switching with poles		Notes
	Part no. Article no.	Price See price list	
FAZ-D6/4 279078	1 off	FAZ-D6/3N 278992	Switching capacity (IEC/EN 60898) 10 kA
FAZ-D8/4 279079		FAZ-D8/3N 278993	Switching capacity (IEC/EN 60947-2) 15 kA
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	
FAZ-K0,5/4 279089	1 off	FAZ-K0,5/3N 279003	3 pole Depth 71 mm Width 52.5 mm
FAZ-K1/4 279090		FAZ-K1/3N 279004	4 pole; 3 pole + N Depth 71 mm Width 70 mm
FAZ-K1,6/4 279091		FAZ-K1,6/3N 279005	
FAZ-K2/4 279092		FAZ-K2/3N 279006	
FAZ-K3/4 279093		FAZ-K3/3N 279007	
FAZ-K4/4 279094		FAZ-K4/3N 279008	
FAZ-K6/4 279095		FAZ-K6/3N 279009	
FAZ-K8/4 279096		FAZ-K8/3N 279010	
FAZ-K10/4 279097		FAZ-K10/3N 279011	
FAZ-K13/4 279098		FAZ-K13/3N 279012	
FAZ-K16/4 279099		FAZ-K16/3N 279013	
FAZ-K20/4 279100		FAZ-K20/3N 279014	
FAZ-K25/4 279101		FAZ-K25/3N 279015	
FAZ-K32/4 279102		FAZ-K32/3N 279016	
FAZ-K40/4 279103		FAZ-K40/3N 279017	
FAZ-K50/4 279104		FAZ-K50/3N 279018	
FAZ-K63/4 279105		FAZ-K63/3N 279019	

FAZ miniature circuit-breakers

Characteristic S
Instantaneous release
response current 13 - 17 x I_n
Switching capacity 10 kA
(IEC/EN 60947-2)

Rated current I_n A	1 pole	2 pole
		
1	FAZ-S1/1 278606	FAZ-S1/2 278805
2	FAZ-S2/1 278607	FAZ-S2/2 278806
3	FAZ-S3/1 278608	FAZ-S3/2 278807
4	FAZ-S4/1 278609	FAZ-S4/2 278808
6	FAZ-S6/1 278610	FAZ-S6/2 278809
10	FAZ-S10/1 278611	FAZ-S10/2 278810
16	FAZ-S16/1 278612	FAZ-S16/2 278811
20	FAZ-S20/1 278613	FAZ-S20/2 278812
25	FAZ-S25/1 278614	FAZ-S25/2 278813
32	FAZ-S32/1 278615	FAZ-S32/2 278814
40	FAZ-S40/1 278616	FAZ-S40/2 278815
0.5	FAZ-Z0,5/1 278617	FAZ-Z0,5/2 278816
1	FAZ-Z1/1 278618	FAZ-Z1/2 278817
1.6	FAZ-Z1,6/1 278619	FAZ-Z1,6/2 278818
2	FAZ-Z2/1 278620	FAZ-Z2/2 278819
3	FAZ-Z3/1 278621	FAZ-Z3/2 278820
4	FAZ-Z4/1 278622	FAZ-Z4/2 278821
6	FAZ-Z6/1 278623	FAZ-Z6/2 278822
8	FAZ-Z8/1 278624	FAZ-Z8/2 278823
10	FAZ-Z10/1 278625	FAZ-Z10/2 278824
16	FAZ-Z16/1 278626	FAZ-Z16/2 278825
20	FAZ-Z20/1 278627	FAZ-Z20/2 278826
25	FAZ-Z25/1 278628	FAZ-Z25/2 278827
32	FAZ-Z32/1 278629	FAZ-Z32/2 278828
40	FAZ-Z40/1 278630	FAZ-Z40/2 278829
50	FAZ-Z50/1 278631	FAZ-Z50/2 278830
63	FAZ-Z63/1 278632	FAZ-Z63/2 278831

FAZ miniature circuit-breakers

Characteristic Z
Instantaneous release
response current 2 - 3 x I_n
Switching capacity 10 kA
(IEC/EN 60947-2)

3 pole With 3 protected poles 	4 pole With 4 protected poles 	Notes
Part no. Article no. See price list	Part no. Article no. See price list	Std. pack
1 off	1 off	
FAZ-Z0,5/3 278918	FAZ-Z0,5/4 279106	
FAZ-Z1/3 278919	FAZ-Z1/4 279107	
FAZ-Z1,6/3 278920	FAZ-Z1,6/4 279108	
FAZ-Z2/3 278921	FAZ-Z2/4 279109	
FAZ-Z3/3 278922	FAZ-Z3/4 279110	
FAZ-Z4/3 278923	FAZ-Z4/4 279111	
FAZ-Z6/3 278924	FAZ-Z6/4 279112	
FAZ-Z8/3 278925	FAZ-Z8/4 279113	
FAZ-Z10/3 278926	FAZ-Z10/4 279114	
FAZ-Z16/3 278927	FAZ-Z16/4 279115	
FAZ-Z20/3 278928	FAZ-Z20/4 279116	
FAZ-Z25/3 278929	FAZ-Z25/4 279117	
FAZ-Z32/3 278930	FAZ-Z32/4 279118	
FAZ-Z40/3 278931	FAZ-Z40/4 279119	
FAZ-Z50/3 278932	FAZ-Z50/4 279120	
FAZ-Z63/3 278933	FAZ-Z63/4 279121	



	1 pole		1 pole+N		2 pole					
	Rated operational current I_n A	Part no. Article no.	Price	Std. pack	Part no. Article no.	Price	Std. pack	Part no. Article no.	Price	Std. pack
FAZT miniature circuit-breakers										
Characteristic B Switching capacity 25 kA (IEC/EN 60947-2)	1	FAZT-B1/1 240770		12 off	FAZT-B1/1N 240994		1 off	FAZT-B1/2 240820		1 off
	2	FAZT-B2/1 240771			FAZT-B2/1N 240995			FAZT-B2/2 240821		
	3	FAZT-B3/1 240772			FAZT-B3/1N 240996			FAZT-B3/2 240822		
	4	FAZT-B4/1 240777			FAZT-B4/1N 240997			FAZT-B4/2 240823		
	6	FAZT-B6/1 240782			FAZT-B6/1N 240998			FAZT-B6/2 240824		
	10	FAZT-B10/1 240787			FAZT-B10/1N 240999			FAZT-B10/2 240825		
	12	FAZT-B12/1 240792			FAZT-B12/1N 241000			FAZT-B12/2 240826		
	13	FAZT-B13/1 240793			FAZT-B13/1N 241001			FAZT-B13/2 240827		
	15	FAZT-B15/1 240794			FAZT-B15/1N 241005			FAZT-B15/2 240828		
	16	FAZT-B16/1 240795			FAZT-B16/1N 241009			FAZT-B16/2 240829		
	20	FAZT-B20/1 240796			FAZT-B20/1N 241015			FAZT-B20/2 240830		
	25	FAZT-B25/1 240797			FAZT-B25/1N 241019			FAZT-B25/2 240831		
	32 ¹⁾	FAZT-B32/1 141907			FAZT-B32/1N 142509			FAZT-B32/2 142485		
	40 ¹⁾	FAZT-B40/1 141908			FAZT-B40/1N 142510			FAZT-B40/2 142486		
Characteristic C Switching capacity 25 kA (IEC/EN 60947-2)	1	FAZT-C1/1 240798		12 off	FAZT-C1/1N 241022		1 off	FAZT-C1/2 240832		1 off
	2	FAZT-C2/1 240799			FAZT-C2/1N 241023			FAZT-C2/2 240833		
	3	FAZT-C3/1 240800			FAZT-C3/1N 241024			FAZT-C3/2 240838		
	4	FAZT-C4/1 240801			FAZT-C4/1N 241025			FAZT-C4/2 240843		
	6	FAZT-C6/1 240802			FAZT-C6/1N 241026			FAZT-C6/2 240850		
	10	FAZT-C10/1 240803			FAZT-C10/1N 241027			FAZT-C10/2 240855		
	12	FAZT-C12/1 240804			FAZT-C12/1N 241028			FAZT-C12/2 240858		
	13	FAZT-C13/1 240805			FAZT-C13/1N 241029			FAZT-C13/2 240859		
	15	FAZT-C15/1 240806			FAZT-C15/1N 241030			FAZT-C15/2 240860		
	16	FAZT-C16/1 240807			FAZT-C16/1N 241034			FAZT-C16/2 240861		
	20	FAZT-C20/1 240808			FAZT-C20/1N 241038			FAZT-C20/2 240862		
	25	FAZT-C25/1 240809			FAZT-C25/1N 241044			FAZT-C25/2 240863		
	32 ¹⁾	FAZT-C32/1 141909			FAZT-C32/1N 142511			FAZT-C32/2 142487		
	40 ¹⁾	FAZT-C40/1 142480			FAZT-C40/1N 142512			FAZT-C40/2 142488		
Characteristic D Switching capacity 25 kA (IEC/EN 60947-2)	1	FAZT-D1/1 240810		12 off	FAZT-D1/1N 241048		1 off	FAZT-D1/2 240864		1 off
	2	FAZT-D2/1 240811			FAZT-D2/1N 241051			FAZT-D2/2 240865		
	3	FAZT-D3/1 240812			FAZT-D3/1N 241052			FAZT-D3/2 240866		
	4	FAZT-D4/1 240813			FAZT-D4/1N 241053			FAZT-D4/2 240867		
	6	FAZT-D6/1 240814			FAZT-D6/1N 241054			FAZT-D6/2 240868		

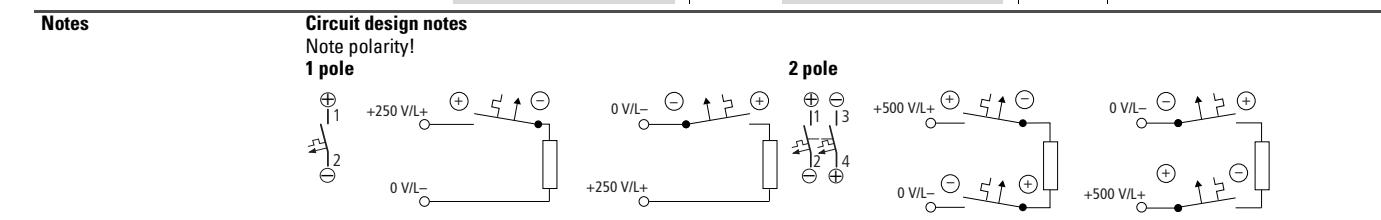
	3 pole		3 pole+N		4 pole				
	Part no. Article no.	Price	Std. pack	Part no. Article no.	Price	Std. pack	Part no. Article no.	Price	Std. pack
FAZT miniature circuit-breakers									
Characteristic B Switching capacity 25 kA (IEC/EN 60947-2)	FAZT-B1/3 240874		1 off	FAZT-B1/3N 241060		1 off	FAZT-B1/4 240922		1 off
	FAZT-B2/3 240875			FAZT-B2/3N 241065			FAZT-B2/4 240927		
	FAZT-B3/3 240876			FAZT-B3/3N 241070			FAZT-B3/4 240930		
	FAZT-B4/3 240877			FAZT-B4/3N 241075			FAZT-B4/4 240931		
	FAZT-B6/3 240878			FAZT-B6/3N 241080			FAZT-B6/4 240932		
	FAZT-B10/3 240879			FAZT-B10/3N 241085			FAZT-B10/4 240933		
	FAZT-B12/3 240880			FAZT-B12/3N 241090			FAZT-B12/4 240934		
	FAZT-B13/3 240881			FAZT-B13/3N 241095			FAZT-B13/4 240935		
	FAZT-B15/3 240882			FAZT-B15/3N 241100			FAZT-B15/4 240936		
	FAZT-B16/3 240883			FAZT-B16/3N 241105			FAZT-B16/4 240937		
	FAZT-B20/3 240884			FAZT-B20/3N 241110			FAZT-B20/4 240938		
	FAZT-B25/3 240885			FAZT-B25/3N 241115			FAZT-B25/4 240939		
	FAZT-B32/3 142493			FAZT-B32/3N 142517			FAZT-B32/4 142501		
	FAZT-B40/3 142494			FAZT-B40/3N 142518			FAZT-B40/4 142502		
Characteristic C Switching capacity 25 kA (IEC/EN 60947-2)	FAZT-C1/3 240886		1 off	FAZT-C1/3N 241120		1 off	FAZT-C1/4 240940		1 off
	FAZT-C2/3 240887			FAZT-C2/3N 241125			FAZT-C2/4 240941		
	FAZT-C3/3 240888			FAZT-C3/3N 241130			FAZT-C3/4 240945		
	FAZT-C4/3 240889			FAZT-C4/3N 241135			FAZT-C4/4 240949		
	FAZT-C6/3 240890			FAZT-C6/3N 241140			FAZT-C6/4 240955		
	FAZT-C10/3 240891								

	1 pole 	1 pole+N 		2 pole 	Part no. Article no.	Price	Std. pack	Part no. Article no.	Price	Std. pack	Part no. Article no.	Price	Std. pack					
FAZT miniature circuit-breakers																		
Characteristic D Switching capacity 25 kA (IEC/EN 60947-2)	10 FAZT-D10/1 240815	12 off FAZT-D10/1N 241055	12 off FAZT-D12/1 240816	1 off FAZT-D12/2 240870	1 off FAZT-D13/1 240817	1 off FAZT-D13/2 240871	1 off FAZT-D15/1 240818	1 off FAZT-D15/2 240872	1 off FAZT-D16/1 240819	1 off FAZT-D16/2 240873	1 off FAZT-D20/1 142481	1 off FAZT-D20/2 142489	1 off FAZT-D25/1 142482	1 off FAZT-D25/2 142490	1 off FAZT-D32/1 142483	1 off FAZT-D32/2 142491	1 off FAZT-D40/1 142484	1 off FAZT-D40/2 142516
12 FAZT-D12/1 240816	13 FAZT-D13/1 240817	15 FAZT-D15/1 240818	16 FAZT-D16/1 240819	20 ¹⁾ FAZT-D20/1 142481	25 ¹⁾ FAZT-D25/1 142482	32 ¹⁾ FAZT-D32/1 142483	40 ¹⁾ FAZT-D40/1 142484											

	3 pole 	Part no. Article no.	Price	Std. pack	3 pole+N 	Part no. Article no.	Price	Std. pack	4 pole 	Part no. Article no.	Price	Std. pack	Notes					
Characteristic D Switching capacity 25 kA (IEC/EN 60947-2)	10 FAZT-D10/3 240903	1 off FAZT-D10/3N 241185	1 off FAZT-D12/3 240904	1 off FAZT-D13/3 240905	1 off FAZT-D15/3 240910	1 off FAZT-D16/3 240915	1 off FAZT-D20/3 142497	1 off FAZT-D25/3 142498	1 off FAZT-D40/3 142500	1 off FAZT-D10/4 240979	1 off FAZT-D12/4 240985	1 off FAZT-D13/4 240989	1 off FAZT-D15/4 240992	1 off FAZT-D16/4 240993	1 off FAZT-D20/4 142505	1 off FAZT-D25/4 142506	1 off FAZT-D32/4 142507	1 off FAZT-D40/4 142508
12 FAZT-D12/1 240816	13 FAZT-D13/1 240817	15 FAZT-D15/1 240818	16 FAZT-D16/1 240819	20 ¹⁾ FAZT-D20/1 142481	25 ¹⁾ FAZT-D25/1 142482	32 ¹⁾ FAZT-D32/1 142483	40 ¹⁾ FAZT-D40/1 142484											

	2 pole 	With 1 protected pole, N switching with pole 												
	Rated operational current I _n A	Part no. Article no.	Price	Std. pack	Notes									
FAZ-PN miniature circuit-breaker														
Characteristic B Instantaneous release response current 3 - 5 x I _n Switching capacity 6 kA (IEC/EN 60898)	6 FAZ-PN-B6/1N 279146	12 off FAZ-PN-B10/1N 279147	Accessories Auxiliary contacts → 19/24	Shunt releases	1 N pole Depth 71 mm Width 17.5 mm 									
10 FAZ-PN-B13/1N 279148	13 FAZ-PN-B16/1N 279149	20 FAZ-PN-B20/1N 279150	25 FAZ-PN-B25/1N 279151	32 FAZ-PN-B32/1N 279152	40 FAZ-PN-B40/1N 279153									
Characteristic C Instantaneous release response current 5 - 10 x 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 FAZ-PN-C2/1N 279154				

	1 pole 	Part no. Article no.	Price	Std. pack	2 pole 	Part no. Article no.	Price	Std. pack	Notes
Characteristic C Instantaneous release response current 5 - 10 x I _n Switching capacity 6 kA (IEC/EN 60898)	2 FAZ-C2/1-DC 279122	12 off FAZ-C2/2-DC 279134	3 FAZ-C3/1-DC 279123	1 off FAZ-C3/2-DC 279135	4 FAZ-C4/1-DC 279124	13 FAZ-C13/1-DC 279127	16 FAZ-C16/2-DC 279128	20 FAZ-C20/1-DC 279129	1 off FAZ-C2/1-DC 279122
Characteristic D Switching capacity 25 kA (IEC/EN 60947-2)	6 FAZ-C6/1-DC 279125	10 FAZ-C10/1-DC 279126	10 FAZ-C10/2-DC 279138	13 FAZ-C13/2-DC 279139	16 FAZ-C16/2-DC 279140	20 FAZ-C20/2-DC 279141	25 FAZ-C25/1-DC 279130	32 FAZ-C32/1-DC 279131	1 off FAZ-C2/1-DC 279122
Characteristic E Switching capacity 40 kA (IEC/EN 60947-2)	40 FAZ-C40/1-DC 279132	50 FAZ-C50/1-DC 279133	40 FAZ-C40/2-DC 279144	50 FAZ-C50/2-DC 279145					



Rated operational 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
AZ miniature circuit-breakers									
Characteristic C Response current of short-circuit release $5 - 10 \times I_n$ 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		12 off	AZ-2-C25 211775		2 off	AZ-3-C25 211776		1 off
	32 AZ-C32 211779		12 off	AZ-2-C32 211780		2 off	AZ-3-C32 211781		1 off
	40 AZ-C40 211784		12 off	AZ-2-C40 211785		2 off	AZ-3-C40 211786		1 off
	50 AZ-C50 211789		12 off	AZ-2-C50 211790		2 off	AZ-3-C50 211791		1 off
	63 AZ-C63 211794		12 off	AZ-2-C63 211795		2 off	AZ-3-C63 211796		1 off
	80 AZ-C80 211799		12 off	AZ-2-C80 211800		2 off	AZ-3-C80 211801		1 off
	100 AZ-C100 211804		12 off	AZ-2-C100 211805		2 off	AZ-3-C100 211806		1 off
	125 AZ-C125 211809		12 off	AZ-2-C125 211810		2 off	AZ-3-C125 211811		1 off
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		12 off	AZ-2-D63 211819		2 off	AZ-3-D63 211820		1 off
	80 AZ-D80 211822		12 off	AZ-2-D80 211823		2 off	AZ-3-D80 211824		1 off
	100 AZ-D100 211826		12 off	AZ-2-D100 211827		2 off	AZ-3-D100 211828		1 off

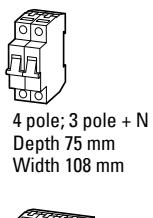
4 pole With 4 protected poles			4 pole With 3 protected poles, N switching with poles		
Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack
AZ-4-C20 211772		1 off	AZ-3N-C20 211773		1 off
AZ-4-C25 211777		1 off	AZ-3N-C25 211778		1 off
AZ-4-C32 211782		1 off	AZ-3N-C32 211783		1 off
AZ-4-C40 211787		1 off	AZ-3N-C40 211788		1 off
AZ-4-C50 211792		1 off	AZ-3N-C50 211793		1 off
AZ-4-C63 211797		1 off	AZ-3N-C63 211798		1 off
AZ-4-C80 211802		1 off	AZ-3N-C80 211803		1 off
AZ-4-C100 211807		1 off	AZ-3N-C100 211808		1 off
AZ-4-C125 211812		1 off	AZ-3N-C125 211813		1 off
			AZ-3N-D50 211817		1 off
			AZ-3N-D63 211821		1 off
			AZ-3N-D80 211825		1 off
			AZ-3N-D100 211829		1 off

For switching capacity refer to Technical Data

Accessories **Page**

Auxiliary contacts, shunt releases → 19/24

Mounting accessories → 19/25

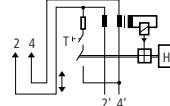
1 pole
Depth 75 mm
Width 27 mm2 pole
Depth 75 mm
Width 54 mm3 pole
Depth 75 mm
Width 81 mm4 pole; 3 pole + N
Depth 75 mm
Width 108 mm

	2 pole	4 pole		
Rated uninterrupted current I_u A	Part no. Article no.	Price See price list	Part no. Article no.	Price See price list
Residual-current protective modules for FAZ				
Rated fault current $I_{\Delta N} = 30 \text{ mA}$	FIM-40/2/0.03-A 278510		FIM-40/4/0.03-A 278514	
Rated fault current $I_{\Delta N} = 30 \text{ mA}$	FIM-63/2/0.03-A 278512		FIM-63/4/0.03-A 278516	
Rated fault current $I_{\Delta N} = 300 \text{ mA}$	FIM-40/2/0.3-A 278511		FIM-40/4/0.3-A 278515	
Rated fault current $I_{\Delta N} = 300 \text{ mA}$	FIM-63/2/0.3-A 278513		FIM-63/4/0.3-A 278517	

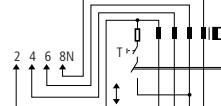
	2 pole	4 pole	4 pole Selective	
Rated uninterrupted current I_u A	Part no. Article no.	Price See price list	Part no. Article no.	Price See price list
Residual-current protective modules for AZ				
Rated fault current $I_{\Delta N} = 30 \text{ mA}$			AZFIMP-4-80-0,03 255484	
Rated fault current $I_{\Delta N} = 30 \text{ mA}$			AZFIMP-4-125-0,03 255488	
Rated fault current $I_{\Delta N} = 300 \text{ mA}$	AZFIMP-2-80-0,3 255477		AZFIMP-4-80-0,3 255485	AZFIMS-4-80-0,3 255492
Rated fault current $I_{\Delta N} = 300 \text{ mA}$	AZFIMP-2-125-0,3 255481		AZFIMP-4-125-0,3 255489	AZFIMS-4-125-0,3 255495

Notes

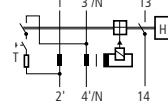
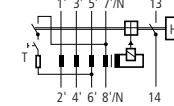
FIM-.../2/...



FIM-.../4/...



AZFIMP-2-...

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

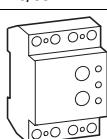
	Pole	Rated operational current I_n A	Response value Earth-fault release $I_{\Delta n}$ A	Part no. Article no.	Price See price list	Std. pack
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Leakage current meter

- 4 pole, can also be used as 2 and 3 pole
- Electronic operation (independent of mains voltage)

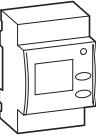
• , non-delayed

- Type G or part no. S can be set
- → 19/55



4 pole	40	0.03 0.1 0.3 0.5 1.0	PDIM-40/4 111760	1 off
4 pole	100	0.03 0.1 0.3 0.5 1.0	PDIM-100/4 111761	1 off

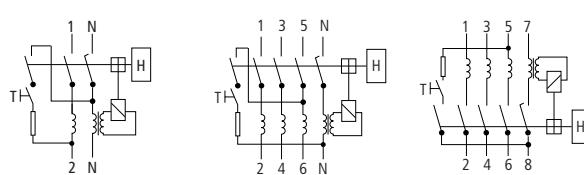


		2 pole		2 pole		Std. pack
Rated operational current I_n A	Part no. Article no.	Price See price list	Part no. Article no.	Price See price list		
PKNM combination switches, type A						
Characteristic B Switching capacity 10 kA	6	PKNM-6/1N/B/003-A-DW 238580	PKNM-6/1N/B/03-A-DW 238582	1 off		
	10	PKNM-10/1N/B/003-A-DW 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			
Pole	Description	Rated operational current I_n A	Part no. Article no.	Price See price list	Std. pack	
Power meter						
Power meter to IEC/EN 62053 for sub measurements						
<ul style="list-style-type: none"> For active/reactive energy Three-phase models also suitable for unbalanced load Programmable through 2 keys on device front Front plate and terminal area can be sealed 						
	3 + N	Connection through current transformer	5	KWZ-3PH 110825		1 off
	3 + N	Connection through current transformer	63	KWZ-3PH-63 110826		

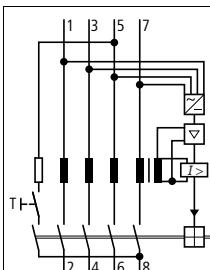
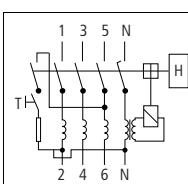
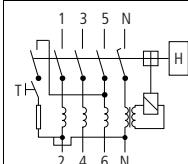
		3 pole + N	3 pole + N	3 pole + N	
	Rated operational current I_n A	Part no. Article no.	Part no. Article no.	Part no. Article no.	Price See price list
FI/LS combination switches mRB6					
Characteristic B Switching capacity 6 kA	13	mRB6-13/3N/B/003-A 120651	mRB6-13/3N/B/01-A 120653	mRB6-13/3N/B/03-A 120655	1 off
	16	mRB6-16/3N/B/003-A 120652	mRB6-16/3N/B/01-A 120654	mRB6-16/3N/B/03-A 120656	1 off
Characteristic C Switching capacity 6 kA	6	mRB6-6/3N/C/003-A 120657	mRB6-6/3N/C/01-A 120661	mRB6-6/3N/C/03-A 120665	1 off
	10	mRB6-10/3N/C/003-A 120658	mRB6-10/3N/C/01-A 120662	mRB6-10/3N/C/03-A 120666	1 off
	13	mRB6-13/3N/C/003-A 120659	mRB6-13/3N/C/01-A 120663	mRB6-13/3N/C/03-A 120667	1 off
	16	mRB6-16/3N/C/003-A 120660	mRB6-16/3N/C/01-A 120664	mRB6-16/3N/C/03-A 120668	1 off
Characteristic D Switching capacity 6 kA	6	mRB6-6/3N/D/003-A 120669	mRB6-6/3N/D/01-A 120673		1 off
	10	mRB6-10/3N/D/003-A 120670	mRB6-10/3N/D/01-A 120674		1 off
	13	mRB6-13/3N/D/003-A 120671	mRB6-13/3N/D/01-A 120675		1 off
	16	mRB6-16/3N/D/003-A 120672	mRB6-16/3N/D/01-A 120676		1 off
FI-LS combination switches mRB4					
Characteristic C Switching capacity 4.5 kA	20	mRB4-20/3N/C/003-A 120677	mRB4-20/3N/C/01-A 120679	mRB4-20/3N/C/03-A 120681	1 off
	25	mRB4-25/3N/C/003-A 120678	mRB4-25/3N/C/01-A 120680	mRB4-25/3N/C/03-A 120682	1 off
Characteristic D Switching capacity 4.5 kA	20	mRB4-20/3N/D/003-A 120683	mRB4-20/3N/D/01-A 120684		1 off

Rated uninterrupted current I_u A	2 pole		4 pole			
	Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack
Residual-current devices FI, type A						
Rated fault current $I_{\Delta N} = 30 \text{ mA}$	16 FI-16/2/003-A 279183	1 off				1 off
25 FI-25/2/003-A 279184		1 off		FI-25/4/003-A 279213		
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		
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		
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		
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		1 off	
	63	FI-63/4/01-U 279236		1 off	
Rated fault current $I_{\Delta N} = 300$ mA	40	FI-40/4/03-U 279235		1 off	
	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		1 off	
Rated fault current $I_{\Delta N} = 300$ mA	63	FI-63/4/03-S/A 279229		1 off	
	80	FI-80/4/03-S/A 279230		1 off	
AC/DC sensitive, Type B					
Rated fault current $I_{\Delta N} = 30$ mA	40	FI-40/4/003-B 240710		1 off	
	63	FI-63/4/003-B 240711		1 off	
	80	FI-80/4/003-B 240712		1 off	
	125 ¹⁾	FI-125/4/003-B 240717		1 off	
Rated fault current $I_{\Delta N} = 100$ mA	40	FI-40/4/01-B 279170		1 off	
	63	FI-63/4/01-B 279171		1 off	
	80	FI-80/4/01-B 279172		1 off	
	125 ¹⁾	FI-125/4/01-B 240722		1 off	
Rated fault current $I_{\Delta N} = 300$ mA	40	FI-40/4/03-B 279173		1 off	
	63	FI-63/4/03-B 279174		1 off	
	80	FI-80/4/03-B 279175		1 off	
	125 ¹⁾	FI-125/4/03-B 240727		1 off	
AC/DC sensitive, selective, S/B type					
Rated fault current $I_{\Delta N} = 300$ mA	40	FI-40/4/03-S/B 281022		1 off	
	63	FI-63/4/03-S/B 281023		1 off	
	80	FI-80/4/03-S/B 281024		1 off	



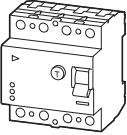
For use in 50 Hz AC current systems with electrical equipment such as frequency inverters, UPS systems or switched-mode power supply units. During a malfunction electrical equipment can cause AC fault currents and pulsed DC fault currents as well as smoothed d.c. fault currents, where residual-current devices of type C will not trip. The residual-current devices FI-B detect all fault current types in accordance with the trip characteristic of IEC 60755, i.e. even pulsating d.c. fault current.

- Caution: In some countries the insurance companies place special demands on residual-current devices.
- 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 at top
- Type S/B 40 ms delay and selective switch off
- Auxiliary contacts on request

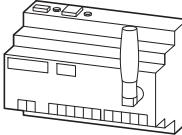
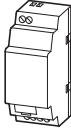
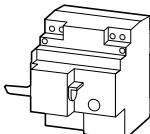
Notes

¹⁾ Neutral conductor right, with 125 A neutral conductor on left



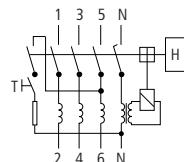
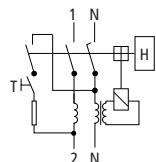
	Rated operational current I_n A	Part no. Article no.	Price See price list	Std. pack
Residual-current devices dRCM, digital				
• 4 pole • Contact position display red-green • Trip indication white/blue				
				
Surge-proof 3 kA, pulse-current sensitive, Type G/A				
	Rated fault current $I_{\Delta N} = 30 \text{ mA}$	25	dRCM-25/4/003-G/A+ 120834	1 off
		40	dRCM-40/4/003-G/A+ 120836	1 off
		63	dRCM-63/4/003-G/A+ 120838	1 off
		80	dRCM-80/4/003-G/A+ 120840	1 off
	Rated fault current $I_{\Delta N} = 300 \text{ mA}$	25	dRCM-25/4/03-G/A+ 120835	1 off
		40	dRCM-40/4/03-G/A+ 120837	1 off
		63	dRCM-63/4/03-G/A+ 120839	1 off
		80	dRCM-80/4/03-G/A+ 120841	1 off
Surge-proof 3 kA, X-ray applications, Type R				
	Rated fault current $I_{\Delta N} = 30 \text{ mA}$	63	dRCM-63/4/003-R+ 120842	1 off
Selective and surge-proof typ. 5 kA, pulse-current sensitive, Type S/A				
	Rated fault current $I_{\Delta N} = 300 \text{ mA}$	40	dRCM-40/4/03-S/A+ 120843	1 off
		63	dRCM-63/4/03-S/A+ 120844	1 off
		80	dRCM-80/4/03-S/A+ 120845	1 off
Selective and surge-proof typ. 5 kA, suitable for frequency inverters, Type U				
	Rated fault current $I_{\Delta N} = 300 \text{ mA}$	40	dRCM-40/4/03-U+ 120851	1 off
		63	dRCM-63/4/03-U+ 120847	1 off
		80	dRCM-80/4/03-U+ 120848	1 off
Short-time delayed and surge-proof 3 kA, suitable for frequency inverters, Type U				
	Rated fault current $I_{\Delta N} = 30 \text{ mA}$	40	dRCM-40/4/003-U+ 120850	1 off
		63	dRCM-63/4/003-U+ 120846	1 off

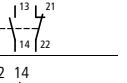
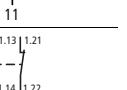
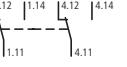
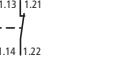
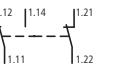


	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
Remote monitoring unit				
<ul style="list-style-type: none"> GSM-based universal remote monitoring and control through SMS Configuration and status monitoring through SMS Built-in modem monitoring and associated status indication through front-mounted LEDs 2 changeover contacts 4 digital inputs, 2 relay outputs 	-	Z-CC/2CO 119383	1 off	
				
Accessories for remote monitoring unit				
Power adaptor	24 V, 0.2 A	EASY200-POW 229424	1 off	 Product Standards IEC/EN see Technical Data; UL 508; CSA C22.2 No. 142-M1987; CSA C22.2 No. 213-M1987; CE marking E135462 UL File No. 012528 UL CCN NRAQ CSA File No. 2252-01 + 2258-02 CSA Class No. UL Listed, CSA certified NA Certification Degree of Protection IEC: IP20, UL/CSA Type: -
				
Temperature sensor		Z-CC/2CO-SE 119430	1 off	
Remote switching modules				
<ul style="list-style-type: none"> IEC/EN 60669-2-2 For remote switching and automatic restart of FAZ miniature circuit-breakers and FI residual-current devices up to 80 A, except Type B Mechanically lockable and sealable LED indication of operational status and alarm status Mechanical switching capacity up to FAZ-...63 and up to FI-80..., except Type B (-XFSM) -25 °C/+40 °C Rated operating voltage 24 - 240 V AC, 24 - 48 V DC Terminal capacity 2 x 1.5 mm², 1 x 2.5 mm²; 0.4 Nm Mechanical/electrical lifespan 10 000 switching operations Power consumption 5 W 				
	220 - 240 V AC 48 V DC			FAZ/FIP-XAWM 262514 FAZ/FIP-XDWM 274404
				1 off
				1 off
Remote test module				
<ul style="list-style-type: none"> External test module with test resistor for RCCB devices Version adapted for rated fault currents with stipulated "external" test button function 	0.01 A 0.03 A 0.1 A 0.3 A 0.5 A			Z-FW/001 248297 Z-FW/003 248298 Z-FW/010 248299 Z-FW/030 248300 Z-FW/050 248301
				4 off



		2 pole		4 pole		4 pole	
		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 devices, only for export (AC type)							
Rated fault current $I_{\Delta N} = 30 \text{ mA}$	16	FI-16/2/003 279176		1 off			
	25	FI-25/2/003 279177			FI-25/4/003 279196		1 off
	40	FI-40/2/003 279180			FI-40/4/003 279200		
	63	FI-63/2/003 279190			FI-63/4/003 279204		
	80	FI-80/2/003 279192			FI-80/4/003 279208		
Rated fault current $I_{\Delta N} = 100 \text{ mA}$	25	FI-25/2/01 279178			FI-25/4/01 279197		
	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
	80	FI-80/2/01 279193			FI-80/4/01 279231		1 off
Rated fault current $I_{\Delta N} = 300 \text{ mA}$	25	FI-25/2/03 279179			FI-25/4/03 279198		
	40	FI-40/2/03 279182			FI-40/4/03 279202		
	80				FI-63/4/03 279206		FI-63/4/03-S 279211
	25				FI-80/4/03 279209		FI-80/4/03-S 279212
Rated fault current $I_{\Delta N} = 500 \text{ mA}$	40				FI-25/4/05 279199		
	63				FI-40/4/05 279203		
	16				FI-63/4/05 279207		

Notes

For use with	Contacts Number	Contact sequences	Space units, 1 space unit = 18 mm Space unit	Part no. Article no.	Price See price list	Std. pack
Auxiliary contacts and shunt releases						
Auxiliary contacts for FAZ, AZ, PKNM						
	FAZ... PKNM...	to 63 A	1 N/O/ 1 NC		0.5	FAZ-XHIN11³⁾ 286054
	FAZ... PKNM...	to 63 A	1 C		0.5	FAZ-XHINW1⁴⁾ 286055
	AZ...	to 125 A	1 N/O/ 1 NC		0.5	AZ-XHI11 212067
Trip-indicating auxiliary contact/auxiliary contact for FAZ, PKNM¹⁾						
	FAZ... PKNM...	to 63 A	2 C		0.5	FAZ-XAM002⁵⁾ 262414
Auxiliary contacts for FI						
	FI...	16 - 100 A, except type B	1 N/O/ 1 NC		0.5	FIP-XHI11 225121
	FI... ²⁾	125 A and all type B	1 NC / 1 N/O		0.5	FIPA-XAM011 262578
Shunt releases for FAZ, PKNM, AZ						
	FAZ... PKNM...	to 63 A	-		1	FAZ-XAA-C-12-110VAC 278518
	FAZ... PKNM...	to 63 A	-		1	FAZ-XAA-C-110-415VAC 278519
	AZ...	to 125 A	-		1.5	AZ-XAA(110-415VAC) 212059
	AZ...	to 125 A	-		1.5	AZ-XAA(12-60VAC) 212061
Undervoltage releases for FAZ						
	FAZ...	-	-		1	FAZ-XUA(115VAC) 212049
	FAZ...	-	-		1	FAZ-XUA(230VAC) 212051
	FAZ...	-	-		1	FAZ-XUA(400VAC) 212053
MCB lock for FAZ/FIP						
	FAZ... FIP...	-	-	-	-	IS/SPE-1TE 101911
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 contacts" 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.						

Information relevant for export to North America



³⁾ Product Standards

IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking

UL File No.

E177451

UL CCN

QVNU2, QVNU9

CSA File No.

-

CSA Class No.

3215-30

NA Certification

UL Recognized, certified by UL for use in Canada

Degree of Protection

IEC: IP20; UL/CSA Type: -

⁴⁾ Product Standards

IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking

UL File No.

E177451

UL CCN

QVNU2

NA Certification

UL Recognized, request filed for CSA

Degree of Protection

IEC: IP20; UL/CSA Type: -

⁵⁾ Product Standards

IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking

UL File No.

E177451

UL CCN

QVNU2, QVNU8

CSA File No.

-

CSA Class No.

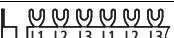
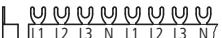
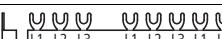
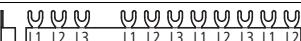
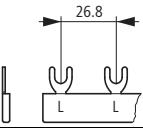
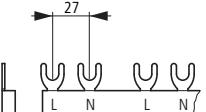
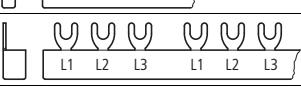
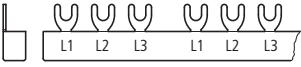
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NA Certification

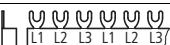
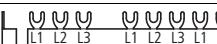
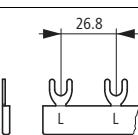
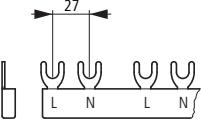
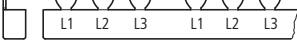
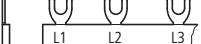
UL Recognized, certified by UL for use in Canada

Degree of Protection

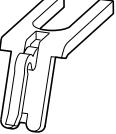
IEC: IP20; UL/CSA Type: -

Phases Number	Devices Number	Part no. Article no.	Price See price list	Std. pack	Notes
Euro-Vario busbars (fork connector)					
<ul style="list-style-type: none"> • No end caps required • Do not shorten 					
10 mm²					
<ul style="list-style-type: none"> • Rated operational current 63 A 					
For PXL, PXF, PXK, PFIM-U, PFNM					
	1	2			
	1	6			
	1	12			
	2	4			
	2	6			
	2	12			
	3	6			
	3	9			
	3	12			
	3	16			
	3	20			
	4	8			
	4	12			
	4	16			
	4	18			
For 2 pole combination RCCB/circuit-breaker with a width of 3 space units					
	1	2 - 5			
	3	4 + 5			
	3	4 + 8			
For use with auxiliary contacts					
	1	2.5			
	1	13			
	2	4.5			
	2	12			
	3	6.5			
	3	13.5			



Phases Number	Devices Number	Part no. Article no.	Price See price list	Std. pack	Notes
Euro-Vario busbars (fork connector)					
<ul style="list-style-type: none"> • No end caps required • Do not shorten 					
16 mm²					
<ul style="list-style-type: none"> • Rated operational current 100 A 					
For FAZ..., Fl...					
	1	2	EVG-16/1PHAS/2MODUL 291464	40 off	
	1	6	EVG-16/1PHAS/6MODUL 291465	40 off	
	1	12	EVG-16/1PHAS/12MODUL 291466	40 off	
	2	4	EVG-16/2PHAS/4MODUL 291467	20 off	
	2	6	EVG-16/2PHAS/6MODUL 291468	20 off	
	2	12	EVG-16/2PHAS/12MODUL 291469	20 off	
	3	6	EVG-16/3PHAS/6MODUL 291470	20 off	
	3	9	EVG-16/3PHAS/9MODUL 291471	20 off	
	3	12	EVG-16/3PHAS/12MODUL 291472	20 off	
	3	16	EVG-16/3PHAS/16MODUL 291473	20 off	
	3	20	EVG-16/3PHAS/20MODUL 291474	10 off	
	4	8	EVG-16/4PHAS/8MODUL 291475	10 off	
	4	12	EVG-16/4PHAS/12MODUL 291476	10 off	
For combined use of 4 pole residual-current devices with miniature circuit-breakers					
	3	4 + 5	EVG-16/3PHAS/N/5MODUL/LS 291477	20 off	
	3	4 + 8	EVG-16/3PHAS/N/8MODUL/LS 291478	20 off	
For use with auxiliary contacts					
	1	2	EVG-16/1PHAS/2MODUL/HI 291479	20 off	
	1	6	EVG-16/1PHAS/6MODUL/HI 291480	40 off	
	1	9	EVG-16/1PHAS/9MODUL/HI 291481	40 off	
	2	2	EVG-16/2PHAS/4MODUL/HI 291482	20 off	
	2	3	EVG-16/2PHAS/6MODUL/HI 291483	20 off	
	2	5	EVG-16/2PHAS/10MODUL/HI 291484	20 off	
	3	2	EVG-16/3PHAS/6MODUL/HI 291485	20 off	
	3	4	EVG-16/3PHAS/12MODUL/HI 291486	20 off	
	3 x 1	6	EVG-16/3X1PHAS/6MODUL/HI 291487	20 off	
	3 x 1	8	EVG-16/3X1PHAS/8MODUL/HI 291488	20 off	
	3 x 1	9	EVG-16/3X1PHAS/9MODUL/HI 291489	20 off	

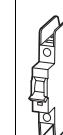
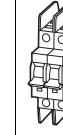
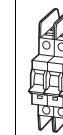


	Pole	Rated operational current I_e A	Cross section mm ²	Length m	Part no. Article no.	Price See price list	Std. pack
Comb-shaped phase busbar							
1-phase, 80 A	1	80	16	1	Z-GV-16/1P-1TE 271061		50 off
3-phase, 63 A	3	63	10	1	Z-GV-10/3P-3TE 271060		20 off
3-phase, 80 A	3	80	16	1	Z-GV-16/3P-3TE 271064		20 off
4-phase, 80 A	4	80	16	1	Z-GV-16/3P+N-4TE 271066		15 off
End caps	3	–	10	–	Z-AK-10/2+3P 271069		10 off
	3	–	16	–	Z-AK-16/2+3P 271070		10 off
	4	–	16	–	Z-AK-16/4P 271071		10 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
Busbar tag shroud							
For masking of unused connections on the busbar	–	–	–	–	ZV-BS-G 104903		10 off
Bracket for securing of covers 2 required per row of MCBs	–	–	–	–	REG-BB 212106		20 off
Terminal bracket, 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							
1 m long.	–	50	–	1	ZV-SS 263956		10 off
	–	80	–	1	ZV-SS-80A 263957		10 off
Shroud section							
1 m long, for 50 and 80 A.	–	–	–	–	ZV-ADP 263958		1 off
End cap for shroud section							
	–	–	–	–	ZV-AEK 263959		10 off

Rated operational current I_n A	Interrupting capacity (SCCR)	Special approval for protection of AWG 18 or AWG 16 to NFPA70 (NEC) and NFPA 79 kA	1 pole		2 pole				
			Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list		
Miniature circuit-breakers FAZ-NA									
• Characteristic B • Switching capacity 15 kA IEC									
1	10	AWG 18	FAZ-B1/1-NA ¹⁾ 132414		2 off  	FAZ-B1/2-NA ¹⁾ 132693			
1.5	10	AWG 18	FAZ-B1.5/1-NA ¹⁾ 132415			FAZ-B1.5/2-NA ¹⁾ 132694	1 off  		
2	10	AWG 18	FAZ-B2/1-NA ¹⁾ 132416			FAZ-B2/2-NA ¹⁾ 132695			
3	10	AWG 18	FAZ-B3/1-NA ¹⁾ 132417			FAZ-B3/2-NA ¹⁾ 132696			
4	10	AWG 18	FAZ-B4/1-NA ¹⁾ 132418			FAZ-B4/2-NA ¹⁾ 132697			
5	10	AWG 18	FAZ-B5/1-NA ¹⁾ 132419			FAZ-B5/2-NA ¹⁾ 132698			
6	10	AWG 18	FAZ-B6/1-NA ¹⁾ 132680			FAZ-B6/2-NA ¹⁾ 132699			
7	10	AWG 18	FAZ-B7/1-NA ¹⁾ 132681			FAZ-B7/2-NA ¹⁾ 132700			
8	10	AWG 16	FAZ-B8/1-NA ¹⁾ 132682			FAZ-B8/2-NA ¹⁾ 132701			
10	10	AWG 16	FAZ-B10/1-NA ¹⁾ 132683			FAZ-B10/2-NA ¹⁾ 132702			
13	10	—	FAZ-B13/1-NA ¹⁾ 132684			FAZ-B13/2-NA ¹⁾ 132703			
15	14	—	FAZ-B15/1-NA ¹⁾ 132685			FAZ-B15/2-NA ¹⁾ 132704			
16	14	—	FAZ-B16/1-NA ¹⁾ 132686			FAZ-B16/2-NA ¹⁾ 132705			
20	14	—	FAZ-B20/1-NA ¹⁾ 132687			FAZ-B20/2-NA ¹⁾ 132706			
25	14	—	FAZ-B25/1-NA ¹⁾ 132688			FAZ-B25/2-NA ¹⁾ 132707			
30	10	—	FAZ-B30/1-NA ¹⁾ 132689			FAZ-B30/2-NA ¹⁾ 132708			
32	10	—	FAZ-B32/1-NA ¹⁾ 132690			FAZ-B32/2-NA ¹⁾ 132709			
35	10	—	FAZ-B35/1-NA ²⁾ 132691			FAZ-B35/2-NA ²⁾ 132710			
40	10	—	FAZ-B40/1-NA ²⁾ 132692			FAZ-B40/2-NA ²⁾ 132711			

3 pole	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America		Notes
				 		
FAZ-B1/3-NA ¹⁾ 132712						
FAZ-B1.5/3-NA ¹⁾ 132713						
FAZ-B2/3-NA ¹⁾ 132714						
FAZ-B3/3-NA ¹⁾ 132715						
FAZ-B4/3-NA ¹⁾ 132716						
FAZ-B5/3-NA ¹⁾ 132717						
FAZ-B6/3-NA ¹⁾ 132718						
FAZ-B7/3-NA ¹⁾ 132719						
FAZ-B8/3-NA ¹⁾ 132720						
FAZ-B10/3-NA ¹⁾ 132721						
FAZ-B13/3-NA ¹⁾ 132722						
FAZ-B15/3-NA ¹⁾ 132723						
FAZ-B16/3-NA ¹⁾ 132724						
FAZ-B20/3-NA ¹⁾ 132725						
FAZ-B25/3-NA ¹⁾ 132726						
FAZ-B30/3-NA ¹⁾ 132727						
FAZ-B32/3-NA ¹⁾ 132728						
FAZ-B35/3-NA ²⁾ 132729						
FAZ-B40/3-NA ²⁾ 132730						

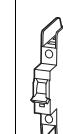
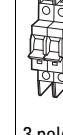
Accessories → 19/40

1 pole
Depth 75 mm
Width 17.7 mm2 pole
Depth 75 mm
Width 35.4 mm3 pole
Depth 75 mm
Width 53.1 mm

Rated operational current I_n A	Interrupting capacity (SCCR) kA	Special approval for protection of AWG 18 or AWG 16 to NFPA70 (NEC) and NFPA 79	1 pole		2 pole				
			Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list		
Miniature circuit-breakers FAZ-NA									
• Characteristic C • Switching capacity 15 kA IEC									
0.5	10	AWG 18	FAZ-C0,5/1-NA ¹⁾ 102077		2 off  	FAZ-C0,5/2-NA ¹⁾ 102157		1 off  	
1	10	AWG 18	FAZ-C1/1-NA ¹⁾ 102078			FAZ-C1/2-NA ¹⁾ 102158			
1.5	10	AWG 18	FAZ-C0,5/1-NA ¹⁾ 102079			FAZ-C1,5/2-NA ¹⁾ 102159			
2	10	AWG 18	FAZ-C2/1-NA ¹⁾ 102080			FAZ-C2/2-NA ¹⁾ 102160			
3	10	AWG 18	FAZ-C3/1-NA ¹⁾ 102081			FAZ-C3/2-NA ¹⁾ 102161			
4	10	AWG 18	FAZ-C4/1-NA ¹⁾ 102082			FAZ-C4/2-NA ¹⁾ 102162			
5	10	AWG 18	FAZ-C5/1-NA ¹⁾ 102083			FAZ-C5/2-NA ¹⁾ 102163			
6	10	AWG 18	FAZ-C6/1-NA ¹⁾ 102084			FAZ-C6/2-NA ¹⁾ 102164			
7	10	AWG 18	FAZ-C7/1-NA ¹⁾ 102085			FAZ-C7/2-NA ¹⁾ 102165			
8	10	AWG 16	FAZ-C8/1-NA ¹⁾ 102086			FAZ-C8/2-NA ¹⁾ 102166			
10	10	AWG 16	FAZ-C10/1-NA ¹⁾ 102087			FAZ-C10/2-NA ¹⁾ 102167			
13	10	—	FAZ-C13/1-NA ¹⁾ 102088			FAZ-C13/2-NA ¹⁾ 102168			
15	14	—	FAZ-C15/1-NA ¹⁾ 102089			FAZ-C15/2-NA ¹⁾ 102169			
16	14	—	FAZ-C16/1-NA ¹⁾ 102090			FAZ-C16/2-NA ¹⁾ 102170			
20	14	—	FAZ-C20/1-NA ¹⁾ 102091			FAZ-C20/2-NA ¹⁾ 102171			
25	14	—	FAZ-C25/1-NA ¹⁾ 102092			FAZ-C25/2-NA ¹⁾ 102172			
30	10	—	FAZ-C30/1-NA ¹⁾ 102093			FAZ-C30/2-NA ¹⁾ 102173			
32	10	—	FAZ-C32/1-NA ¹⁾ 102094			FAZ-C32/2-NA ¹⁾ 102174			
35	10	—	FAZ-C35/1-NA ²⁾ 102095			FAZ-C35/2-NA ²⁾ 102175			
40	10	—	FAZ-C40/1-NA ²⁾ 102096			FAZ-C40/2-NA ²⁾ 102176			

3 pole	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America		Notes
				 		
FAZ-C0,5/3-NA ¹⁾ 102237			1 off  	1)	Product Standards	IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE marking E235139
FAZ-C1/3-NA ¹⁾ 102238					UL File No.	DIVQ
FAZ-C1,5/3-NA ¹⁾ 102239					CSA File No.	204453
FAZ-C2/3-NA ¹⁾ 102240					CSA Class No.	1432-01
FAZ-C3/3-NA ¹⁾ 102241					NA Certification	UL Listed, CSA certified
FAZ-C4/3-NA ¹⁾ 102242					Suitable for	Feeder circuits, branch circuits
FAZ-C5/3-NA ¹⁾ 102243					✓	≤ 32 A
FAZ-C6/3-NA ¹⁾ 102244						1 pole: 277 V AC, 48 V DC
FAZ-C7/3-NA ¹⁾ 102245						2 pole: 480 Y/277 V AC, 96 V DC
FAZ-C8/3-NA ¹⁾ 102246						3 pole: 480 Y/277 V AC
FAZ-C10/3-NA ¹⁾ 102247						IEC: IP20, UL/CSA Type: -
FAZ-C13/3-NA ¹⁾ 102248						
FAZ-C15/3-NA ¹⁾ 102249						
FAZ-C16/3-NA ¹⁾ 102250						
FAZ-C20/3-NA ¹⁾ 102251						
FAZ-C25/3-NA ¹⁾ 102252						
FAZ-C30/3-NA ¹⁾ 102253						
FAZ-C32/3-NA ¹⁾ 102254						
FAZ-C35/3-NA ²⁾ 102255						
FAZ-C40/3-NA ²⁾ 102256						
FAZ-NA can also be used where FAZ Supplementary Protectors to UL 1077 are sufficient.						

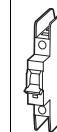
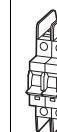
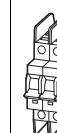
Accessories → 19/40

1 pole
Depth 75 mm
Width 17.7 mm2 pole
Depth 75 mm
Width 35.4 mm3 pole
Depth 75 mm
Width 53.1 mm

Rated operational current I_n A	Interrupting capacity (SCCR) kA	Special approval for protection of AWG 18 or AWG 16 to NFPA70 (NEC) and NFPA 79	1 pole			2 pole				
			Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack		
Miniature circuit-breakers FAZ-NA										
• Characteristic D • Switching capacity 15 kA IEC										
0.5	10	AWG 18	FAZ-D0,5/1-NA ¹⁾ 102097		2 off  	FAZ-D0,5/2-NA ¹⁾ 102177		1 off  		
1	10	AWG 18	FAZ-D1/1-NA ¹⁾ 102098			FAZ-D1/2-NA ¹⁾ 102178				
1.5	10	AWG 18	FAZ-D0,5/1-NA ¹⁾ 102099			FAZ-D1,5/2-NA ¹⁾ 102179				
2	10	AWG 18	FAZ-D2/1-NA ¹⁾ 102100			FAZ-D2/2-NA ¹⁾ 102180				
3	10	AWG 18	FAZ-D3/1-NA ¹⁾ 102101			FAZ-D3/2-NA ¹⁾ 102181				
4	10	AWG 18	FAZ-D4/1-NA ¹⁾ 102102			FAZ-D4/2-NA ¹⁾ 102182				
5	10	AWG 18	FAZ-D5/1-NA ¹⁾ 102103			FAZ-D5/2-NA ¹⁾ 102183				
6	10	AWG 18	FAZ-D6/1-NA ¹⁾ 102104			FAZ-D6/2-NA ¹⁾ 102184				
7	10	AWG 18	FAZ-D7/1-NA ¹⁾ 102105			FAZ-D7/2-NA ¹⁾ 102185				
8	10	AWG 16	FAZ-D8/1-NA ¹⁾ 102106			FAZ-D8/2-NA ¹⁾ 102186				
10	10	AWG 16	FAZ-D10/1-NA ¹⁾ 102107			FAZ-D10/2-NA ¹⁾ 102187				
13	10	—	FAZ-D13/1-NA ¹⁾ 102108			FAZ-D13/2-NA ¹⁾ 102188				
15	14	—	FAZ-D15/1-NA ¹⁾ 102109			FAZ-D15/2-NA ¹⁾ 102189				
16	14	—	FAZ-D16/1-NA ¹⁾ 102110			FAZ-D16/2-NA ¹⁾ 102190				
20	14	—	FAZ-D20/1-NA ¹⁾ 102111			FAZ-D20/2-NA ¹⁾ 102191				
25	14	—	FAZ-D25/1-NA ¹⁾ 102112			FAZ-D25/2-NA ¹⁾ 102192				
30	10	—	FAZ-D30/1-NA ¹⁾ 102113			FAZ-D30/2-NA ¹⁾ 102193				
32	10	—	FAZ-D32/1-NA ¹⁾ 102114			FAZ-D32/2-NA ¹⁾ 102194				
35	10	—	FAZ-D35/1-NA ²⁾ 102115			FAZ-D35/2-NA ²⁾ 102195				
40	10	—	FAZ-D40/1-NA ²⁾ 102116			FAZ-D40/2-NA ²⁾ 102196				

3 pole	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America		Notes
				 		
FAZ-D0,5/3-NA ¹⁾ 102257			1 off  	1)	Product Standards	IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE marking E235139
FAZ-D1/3-NA ¹⁾ 102258					UL File No.	DIVQ
FAZ-D1,5/3-NA ¹⁾ 102259					CSA File No.	204453
FAZ-D2/3-NA ¹⁾ 102260					CSA Class No.	1432-01
FAZ-D3/3-NA ¹⁾ 102261					NA Certification	UL Listed, CSA certified
FAZ-D4/3-NA ¹⁾ 102262					Suitable for	Feeder circuits, branch circuits
FAZ-D5/3-NA ¹⁾ 102263					Current Limiting CB	✓
FAZ-D6/3-NA ¹⁾ 102264					Max. Voltage Rating	≤ 32 A
FAZ-D7/3-NA ¹⁾ 102265						1 pole: 277 V AC, 48 V DC 2 pole: 480 Y/277 V AC, 96 V DC 3 pole: 480 Y/277 V AC
FAZ-D8/3-NA ¹⁾ 102266						IEC: IP20, UL/CSA Type: -
FAZ-D10/3-NA ¹⁾ 102267						
FAZ-D13/3-NA ¹⁾ 102268						
FAZ-D15/3-NA ¹⁾ 102269						
FAZ-D16/3-NA ¹⁾ 102270						
FAZ-D20/3-NA ¹⁾ 102271						
FAZ-D25/3-NA ¹⁾ 102272						
FAZ-D30/3-NA ¹⁾ 102273						
FAZ-D32/3-NA ¹⁾ 102274						
FAZ-D35/3-NA ²⁾ 102275						
FAZ-D40/3-NA ²⁾ 102276						

Accessories → 19/40

1 pole
Depth 75 mm
Width 17.7 mm2 pole
Depth 75 mm
Width 35.4 mm3 pole
Depth 75 mm
Width 53.1 mm

Rated operational current I_n A	Interrupting capacity (SCCR) kA	Special approval for protection of AWG 18 or AWG 16 to NFPA70 (NEC) and NFPA 79
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Miniature circuit-breakers FAZ-RT

- With ring cable lug connection
- Characteristic B
- Switching capacity 15 kA IEC

1	10	AWG 18
1.5	10	AWG 18
2	10	AWG 18
3	10	AWG 18
4	10	AWG 18
5	10	AWG 18
6	10	AWG 18
7	10	AWG 18
8	10	AWG 16
10	10	AWG 16
13	10	—
15	14	—
16	14	—
20	14	—
25	14	—
30	10	—
32	10	—
35	10	—
40	10	—

1 pole

Part no.

Article no.

Price

See price

list

Std. pack

2 pole

Part no.

Article no.

Price

See price

list

Std. pack

HPL19034EN

HPL19035EN

3 pole

Part no.

Article no.

Price

See price

list

Std. pack



Information relevant for export to North America

Notes

Accessories → 19/40

1 pole
Depth 75 mm
Width 17.7 mm2 pole
Depth 75 mm
Width 35.4 mm3 pole
Depth 75 mm
Width 53.1 mm

1 off



1) Product Standards

IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09;
CE marking
E235139
DIVQ

UL File No.

UL CCN

CSA File No.

CSA Class No.

NA Certification

Suitable for

Current Limiting CB

Max. Voltage Rating

✓

≤ 32 A

1 pole: 277 V AC, 48 V DC

2 pole: 480 Y/277 V AC, 96 V DC

3 pole: 480 Y/277 V AC

IEC: IP20, UL/CSA Type: -

Degree of Protection

2)

Product Standards

IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09;
CE marking
E235139
DIVQ

UL File No.

UL CCN

CSA File No.

CSA Class No.

NA Certification

Suitable for

Current Limiting CB

Max. Voltage Rating

✓

> 32 A

1 pole: 240 V AC, 48 V DC

2 pole: 240 V AC, 96 V DC

3 pole: 240 V AC

IEC: IP20, UL/CSA Type: -

Degree of Protection

FAZ-RT can also be used where FAZ Supplementary Protectors to UL 1077 are sufficient.

Rated operational current I_n A	Interrupting capacity (SCCR) kA	Special approval for protection of AWG 18 or AWG 16 to NFPA70 (NEC) and NFPA 79
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Miniature circuit-breakers FAZ-RT

- With ring cable lug connection
- Characteristic C
- Switching capacity 15 kA IEC

0.5	10	AWG 18	FAZ-C0,5/1-RT ¹⁾ 102117
1	10	AWG 18	FAZ-C1/1-RT ¹⁾ 102118
1.5	10	AWG 18	FAZ-C0,5/1-RT ¹⁾ 102119
2	10	AWG 18	FAZ-C2/1-RT ¹⁾ 102120
3	10	AWG 18	FAZ-C3/1-RT ¹⁾ 102121
4	10	AWG 18	FAZ-C4/1-RT ¹⁾ 102122
5	10	AWG 18	FAZ-C5/1-RT ¹⁾ 102123
6	10	AWG 18	FAZ-C6/1-RT ¹⁾ 102124
7	10	AWG 18	FAZ-C7/1-RT ¹⁾ 102125
8	10	AWG 16	FAZ-C8/1-RT ¹⁾ 102126
10	10	AWG 16	FAZ-C10/1-RT ¹⁾ 102127
13	10	—	FAZ-C13/1-RT ¹⁾ 102128
15	14	—	FAZ-C15/1-RT ¹⁾ 102129
16	14	—	FAZ-C16/1-RT ¹⁾ 102130
20	14	—	FAZ-C20/1-RT ¹⁾ 102131
25	14	—	FAZ-C25/1-RT ¹⁾ 102132
30	10	—	FAZ-C30/1-RT ¹⁾ 102133
32	10	—	FAZ-C32/1-RT ¹⁾ 102134
35	10	—	FAZ-C35/1-RT ²⁾ 102135
40	10	—	FAZ-C40/1-RT ²⁾ 102136

1 pole



Part no.

Article no.

Price

See price list

Std. pack

2 pole



Part no.

Article no.

Price

See price list

Std. pack

HPL19036EN

HPL19037EN

3 pole



Part no.

Article no.

Price

See price list

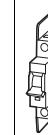
Std. pack

Information relevant for export to North America



Notes

Accessories → 19/40

1 pole
Depth 75 mm
Width 17.7 mm2 pole
Depth 75 mm
Width 35.4 mm3 pole
Depth 75 mm
Width 53.1 mm

Rated operational current I_n A	Interrupting capacity (SCCR) kA	Special approval for protection of AWG 18 or AWG 16 to NFPA70 (NEC) and NFPA 79
---	------------------------------------	---

1 pole

Part no.

Article no.

Price
See price
list

Std. pack

HPL19038EN

2 pole

Part no.

Article no.

Price
See price
list

Std. pack

HPL19038EN

Miniature circuit-breakers FAZ-RT

- With ring cable lug connection
- Characteristic D
- Switching capacity 15 kA IEC

0.5	10	AWG 18	FAZ-D0.5/1-RT ¹⁾ 102137	2 off	FAZ-D0.5/2-RT ¹⁾ 102217	1 off
1	10	AWG 18	FAZ-D1/1-RT ¹⁾ 102138		FAZ-D1/2-RT ¹⁾ 102218	
1.5	10	AWG 18	FAZ-D0.5/1-RT ¹⁾ 102139		FAZ-D1.5/2-RT ¹⁾ 102219	
2	10	AWG 18	FAZ-D2/1-RT ¹⁾ 102140		FAZ-D2/2-RT ¹⁾ 102220	
3	10	AWG 18	FAZ-D3/1-RT ¹⁾ 102141		FAZ-D3/2-RT ¹⁾ 102221	
4	10	AWG 18	FAZ-D4/1-RT ¹⁾ 102142		FAZ-D4/2-RT ¹⁾ 102222	
5	10	AWG 18	FAZ-D5/1-RT ¹⁾ 102143		FAZ-D5/2-RT ¹⁾ 102223	
6	10	AWG 18	FAZ-D6/1-RT ¹⁾ 102144		FAZ-D6/2-RT ¹⁾ 102224	
7	10	AWG 18	FAZ-D7/1-RT ¹⁾ 102145		FAZ-D7/2-RT ¹⁾ 102225	
8	10	AWG 16	FAZ-D8/1-RT ¹⁾ 102146		FAZ-D8/2-RT ¹⁾ 102226	
10	10	AWG 16	FAZ-D10/1-RT ¹⁾ 102147		FAZ-D10/2-RT ¹⁾ 102227	
13	10	—	FAZ-D13/1-RT ¹⁾ 102148		FAZ-D13/2-RT ¹⁾ 102228	
15	14	—	FAZ-D15/1-RT ¹⁾ 102149		FAZ-D15/2-RT ¹⁾ 102229	
16	14	—	FAZ-D16/1-RT ¹⁾ 102150		FAZ-D16/2-RT ¹⁾ 102230	
20	14	—	FAZ-D20/1-RT ¹⁾ 102151		FAZ-D20/2-RT ¹⁾ 102231	
25	14	—	FAZ-D25/1-RT ¹⁾ 102152		FAZ-D25/2-RT ¹⁾ 102232	
30	10	—	FAZ-D30/1-RT ¹⁾ 102153		FAZ-D30/2-RT ¹⁾ 102233	
32	10	—	FAZ-D32/1-RT ¹⁾ 102154		FAZ-D32/2-RT ¹⁾ 102234	
35	10	—	FAZ-D35/1-RT ²⁾ 102155		FAZ-D35/2-RT ²⁾ 102235	
40	10	—	FAZ-D40/1-RT ²⁾ 102156		FAZ-D40/2-RT ²⁾ 102236	

HPL19038EN

HPL19039EN

3 pole

Part no.

Article no.

Price
See price
list

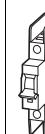
Std. pack

HPL19039EN



Notes

Accessories → 19/40
1 pole
Depth 75 mm
Width 17.7 mm



2 pole
Depth 75 mm
Width 35.4 mm



3 pole
Depth 75 mm
Width 53.1 mm



Contacts

Contact sequences

Space units
1 PLE = 18 mm

For use with

Part no.
Article no.Price
See price
list

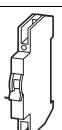
Std. pack

C = Changeover
contactN/O = normally open
contactNC = normally closed
contact

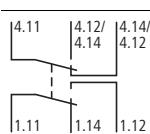
Accessories for FAZ-NA, FAZ-RT

Tripping signal contact

- The function of one of the two changeover contacts can be changed from "auxiliary contact" to "tripping signal contact".



2 C



0.5

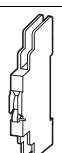
FAZ-NA
FAZ-RTZ-NHK
248434

4 off



Auxiliary contacts

- Suitable for FAZ-NA > 480Y/277 V AC

1 N/O
1 NC

0.5

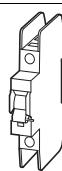
FAZ-NA
FAZ-RTZ-IHK-NA
113895

1 off

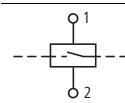


Shunt releases

- Standard auxiliary contacts can be fitted in addition
- Position indicator red/green



-



1

FAZ-NA
FAZ-RT

FAZ-XAA-NA110-415VAC

102036

FAZ-XAA-NA12-110VAC

102037

1 off



1 off



Information relevant for export to North America



Product Standards

IEC/EN 60898; UL 489; CSA-C22.2 No. 5-09; CE marking

UL File No.

E257181

UL CCN

DIHS, DIHS7

CSA File No.

204453

CSA Class No.

1437-01

NA Certification

UL Listed, CSA certified

Degree of Protection

IEC: IP20, UL/CSA Type: -



Phases Number	Devices Number	Part no. Article no.	Price See price list	Std. pack	Notes
Accessories for FAZ-NA, FAZ-RT					
Busbars (pin), UL 489					
• 16 mm ²					
• Rated operational current 80 A					
• For FAZ-NA, FAZ-RT					
• Do not shorten					
	1	6	Z-SV/UL-16/1P-1TE/6 104892	10 off	
	1	12	Z-SV/UL-16/1P-1TE/12 104893		
	1	18	Z-SV/UL-16/1P-1TE/18 104894		
	2	6	Z-SV/UL-16/2P-2TE/6 104895		
	2	12	Z-SV/UL-16/2P-2TE/12 104896		
	2	18	Z-SV/UL-16/2P-2TE/18 104897		
	3	6	Z-SV/UL-16/3P-3TE/6 104898		
	3	12	Z-SV/UL-16/3P-3TE/12 104899		
	3	18	Z-SV/UL-16/3P-3TE/18 104900		

Information relevant for export to North America

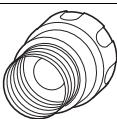
Product Standards	IEC/EN 60898; UL 489; CE marking
UL File No.	E257181
UL CCN	NMTR2, DIHS2
CSA File No.	-
CSA Class No.	-
NA Certification	UL Recognized
Suitable for	Feeder Circuit, Branch Circuit
Max. Voltage Rating	Refer to main components FAZ, FAZ-NA, FAZ-RT
Degree of Protection	IEC: IP20, UL/CSA Type: -

For use with	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
Accessories for FAZ-NA, FAZ-RT				
Connecting bracket				
• 2.5 - 35 mm ² , AWG 14-2				
• UL 489				
	FAZ-NA FAZ-RT	Z-EK/35/UL 104901	3 off	
				Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for Max. Voltage Rating Degree of Protection
				IEC/EN 60898; UL 489; CE marking E257181 NMTR2, DIHS2 - - UL Recognized Feeder circuits, branch circuits Refer to main components FAZ, FAZ-NA, FAZ-RT IEC: IP20, UL/CSA Type: -
Busbar cover				
• for 3 pins				
• UL 489				
	FAZ-NA FAZ-RT	ZV-BS-UL 104904	10 off	
				Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Degree of Protection
				IEC/EN 60898; UL 489; CE marking E257181 NMTR2, DIHS2 - - UL Recognized IEC: IP20, UL/CSA Type: -

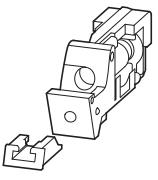
Pole	Rated operational current I_e A	Rated operational voltage U_e V AC	Fuse-link Size	Part no. Article no.	Price See price list	Std. pack	Notes	
Fuse bases								
	1 pole	16	–	D01	D01-SO/16/1 102752	9 off	Equipment supplied: Empty, without screw on cover	
		63	–	D02	D02-SO/63/1 102675	9 off		
	3 pole	16	–	D01	D01-SO/16/3 102674	3 off	Equipment supplied: Empty, without screw on cover	
		63	–	D02	D02-SO/63/3 102676	3 off		
Fuse bases, 1 pole								
For gauge ring system (gauge screw: /FORMP)								
Screw fixing (holes for M4 screws)								
	1 pole	25	500	E27, DII	S27-1 045865	10 off	Gauge rings/gauge screws, fuse links and fuse caps are not included.	
		25	500	E27, DII	S27-1/FORMP 020327	10 off		
		63	660 690	E33, DIII	S33-1 069595	2 off		
		63	660 690	E33, DIII	S33-1/FORMP 022700	2 off		
Can be snap fitted on top-hat rail to IEC/EN 60715 (35 mm)								
	1 pole	25	500	E27, DII	S27-1/C 048238	20 off	Gauge rings/gauge screws, fuse links and fuse caps are not included.	
		25	500	E27, DII	S27-1/C/FORMP 025073	20 off		
		63	660 690	E33, DIII	S33-1/C 071968	2 off		
		63	660 690	E33, DIII	S33-1/C/FORMP 027446	2 off		
Fuse bases, 3 pole								
For gauge ring system (gauge screw: /FORMP)								
Screw fixing (holes for M4 screws)								
	3 pole	25	500	E27, DII	S27 043492	4 off	Gauge rings/gauge screws, fuse links and fuse caps are not included.	
		25	500	E27, DII	S27/FORMP 034565	4 off		
		63	660 690	E33, DIII	S33 067222	2 off		
		63	660 690	E33, DIII	S33/FORMP 036938	2 off		
Can be snap fitted on top-hat rail to IEC/EN 60715 (35 mm)								
	3 pole	25	500	E27, DII	S27/C 050611	4 off	Gauge rings/gauge screws, fuse links and fuse caps are not included.	
		25	500	E27, DII	S27/C/FORMP 032192	4 off		
		63	660 690	E33, DIII	S33/C 081460	2 off		
		63	660 690	E33, DIII	S33/C/FORMP 029819	2 off		



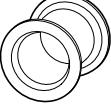
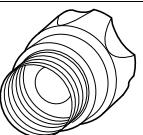
	For use with	Part no. Article no.	Price See price list	Std. pack
Covers for 1 pole fuse bases Standard front dimension 45 mm				
	S....1/...	P-E27 090928		10 off
	S....1/...	P-E33 093301		10 off
Transparent shroud With cable entry knockouts top and bottom	-	H-S27-1 029118		10 off
Busbar connector 63 A For fuse bases, 3 pole	D0.../3	Z-SV-16/3P 271072		20 off
End cap For busbar block	Z-SV-16/3P	Z-AK-16/2+3P 271070		10 off
Notched phase busbars, can be cut to desired length				
For gauge ring system (gauge screw: /FORMP) 980 mm long, for max. 22 fuse bases, Rated operational current 100 A	S27-1/C	KS27 055248		5 off
960 mm long, for max. 18 fuse bases, rated operational current 160 A	S33-1/C	KS33 059994		5 off
Terminal	For gauge ring system (gauge screw: /FORMP) For round conductor up to 35 mm ² or flat cable conductor 6 x 9 x 0.8	KS14 - KS33	K35-AB 064339	20 off
Rated operational current I _e A	Fuse-link Size	Part no. Article no.	Price See price list	Part no. Article no.
		Utilization category gG (gL)		Utilization category DZ
Fuse links Z-D.../SE				
Rated operating voltage 500 V AC/400 V DC	2	Z-DII/SE-2A/GG 112125		Z-DII/SE-2A/DZ 112028
	4	Z-DII/SE-4A/GG 112126		Z-DII/SE-4A/DZ 112029
	6	Z-DII/SE-6A/GG 112127		Z-DII/SE-6A/DZ 112120
	10	Z-DII/SE-10A/GG 112128		Z-DII/SE-10A/DZ 112121
	16	Z-DII/SE-16A/GG 112129		Z-DII/SE-16A/DZ 112122
	20	Z-DII/SE-20A/GG 112130		Z-DII/SE-20A/DZ 112123
	25	Z-DII/SE-25A/GG 112131		Z-DII/SE-25A/DZ 112124
	35	Z-DIII/SE-35A/GG 112135		Z-DIII/SE-35A/DZ 112132
	50	Z-DIII/SE-50A/GG 112136		Z-DIII/SE-50A/DZ 112133
	63	Z-DIII/SE-63A/GG 112137		Z-DIII/SE-63A/DZ 112134

	Rated operational current I_e A	Rated operational voltage U_e V AC	Fuse link Size	Part no. Article no.	Price See price list	Std. pack
Gauge screws Z-DII.../PS						
	2	–	DII E27	Z-DII/PS-2A 112138		25 off
	4	–	DII E27	Z-DII/PS-4A 112139		
	6	–	DII E27	Z-DII/PS-6A 112140		
	10	–	DII E27	Z-DII/PS-10A 112141		
	16	–	DII E27	Z-DII/PS-16A 112142		
	20	–	DII E27	Z-DII/PS-20A 112143		
	25	–	DII E27	Z-DII/PS-25A 112144		
	35	–	DIII E33	Z-DIII/PS-35A 112145		
	50	–	DIII E33	Z-DIII/PS-50A 112146		
	63	–	DIII E33	Z-DIII/PS-63A 112147		
Z-DII.../PE push-in gauge rings						
	2	–	DII E27	Z-DII/PE-2A 110396		50 off
	4	–	DII E27	Z-DII/PE-4A 110397		
	6	–	DII E27	Z-DII/PE-6A 110398		
	10	–	DII E27	Z-DII/PE-10A 110399		
	16	–	DII E27	Z-DII/PE-16A 110790		
	20	–	DII E27	Z-DII/PE-20A 110791		
	2	–	DIII E33	Z-DIII/PE-2A 110792		
	4	–	DIII E33	Z-DIII/PE-4A 110793		
	6	–	DIII E33	Z-DIII/PE-6A 110794		
	10	–	DIII E33	Z-DIII/PE-10A 110795		
	16	–	DIII E33	Z-DIII/PE-16A 110796		
	20	–	DIII E33	Z-DIII/PE-20A 110797		
	25	–	DIII E33	Z-DIII/PE-25A 110798		
	35	–	DIII E33	Z-DIII/PE-35A 110799		
	50	–	DIII E33	Z-DIII/PE-50A 110800		
Z-DII.../SK screw caps						
	–	500	DII E27	Z-DII/SK 112148		50 off
	–	500	DIII E33	Z-DIII/SK 112149		30 off
	–	690	DIII E33	Z-DIII/SK-690 118904		3 off

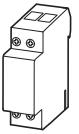


Pole	Rated uninterrupted current I_u A	Fuse link Size	Part no. Article no.	Price See price list	Std. pack
Fuse switch-disconnectors					
Standard, empty	1	63	D02, D01	Z-SLS/NEOZ/1 248235	12 off
	1 + N			Z-SLS/NEOZ/1+N 248237	6 off
	2			Z-SLS/NEOZ/2 248233	6 off
	3			Z-SLS/NEOZ/3 248234	4 off
	3 + N			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
Fuse 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 color 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	
		4	—	Z-SLS/B-24-4A 268996	
		6	—	Z-SLS/B-24-6A 268997	
		10	—	Z-SLS/B-24-10A 268998	
		13	—	Z-SLS/B-24-13A 289975	
		16	—	Z-SLS/B-24-16A 268999	
		20	—	Z-SLS/B-24-20A 269000	
		25	—	Z-SLS/B-24-25A 269001	
		32	—	Z-SLS/B-24-32A 289976	
		35	—	Z-SLS/B-24-35A 269002	
		40	—	Z-SLS/B-24-40A 289977	
		50	—	Z-SLS/B-24-50A 269003	
		63	—	Z-SLS/B-24-63A 269004	

	Rated uninterrupted current I_u A	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	
		4	Z-SLS/B-4A 268985	
		6	Z-SLS/B-6A 268986	
		10	Z-SLS/B-10A 268987	
		13	Z-SLS/B-13A 289972	
		16	Z-SLS/B-16A 268988	
		20	Z-SLS/B-20A 268989	
		25	Z-SLS/B-25A 268990	
		32	Z-SLS/B-32A 289973	
		35	Z-SLS/B-35A 268991	
		40	Z-SLS/B-40A 289974	
		60	Z-SLS/B-50A 268992	
		63	Z-SLS/B-63A 268993	
Disconnector kit				
	-	63	Z-SLS/TR-SET 100660	12 off
Switch-on inhibits				
	Stop with metal lock	-	Z-SLZ/SC 268980	12 off
	Stop with plastic lock	-	Z-SLZ/SP 268981	12 off
Incoming double terminal				
	-	-	Z-SLZ/KL 268982	15 off

	Rated uninterrupted current I _u A	Fuse link Size	Part no. Article no.	Price See price list	Std. pack
Fuse links utilization category gG (gL)					
	• Snap-fit on DIN rail • In a plastic box in the color of the indicator	2 4 6 10 13 16 20 25 32 35 40 50 63	D01	Z-D01/SE-2 288934 Z-D01/SE-4 288935 Z-D01/SE-6 288936 Z-D01/SE-10 288937 Z-D01/SE-13 288938 Z-D01/SE-16 288939 Z-D02/SE-20 288940 Z-D02/SE-25 288941 Z-D02/SE-32 288942 Z-D02/SE-35 288943 Z-D02/SE-40 288944 Z-D02/SE-50 288945 Z-D02/SE-63 288946	12 off
Adapter sleeves					
	• Snap-fit on DIN rail • In a plastic box in the color of the indicator	2 4 6 10, 13 20 25 35, 32 40 50	D01	Z-D01/PE-2 288909 Z-D01/PE-4 288910 Z-D01/PE-6 288911 Z-D01/PE-10 288912 Z-D02/PE-20 288913 Z-D02/PE-25 288914 Z-D02/PE-35 288915 Z-D02/PE-40 288916 Z-D02/PE-50 288917	12 off
	• D01 for fuse base D02 and fuse switch-disconnector D02	2 4 6 10, 13 16	D02-D01	Z-D02-D01/PE-2 263112 Z-D02-D01/PE-4 263113 Z-D02-D01/PE-6 263150 Z-D02-D01/PE-10 263151 Z-D02-D01/PE-16 263152	
Screw caps					
	-	Max. 16	D01	Z-D01/SK 100650	20 off
		Max. 63	D02	Z-D02/SK 100651	20 off
Retaining spring					
	• For inserting D01 fuses links in the screw cap Z-D02/SK		D02-D01	Z-D02/SIKA-HF 263149	50 off



	Pole	Part no. Article no.	Price See price list	Std. pack
Fuse switch-disconnectors (empty)				
• Line protection of photovoltaic generator				
• The trip indication signals that a fuse link has tripped:				
– 50 - 400 V flashing				
– 400 - 1000 V continuous light				
• Rated operational voltage 1000 V DC				
• Size 10 x 38, rated operational current 20 A DC				
• For cylindrical fuse links for photovoltaic applications				
• Sealable				
	Without flashing function	1	C10-FD/20/1 119024	12 off
	Without flashing function	2	C10-FD/20/2 119025	6 off
	With flashing function	1	C10-FD/20/1-L 119026	12 off
	With flashing function	2	C10-FD/20/2-L 119027	6 off
	Size	Rated operational current I_e A	Rated operating voltage U_e V DC	Part no. Article no.
				Price See price list
				Std. pack
Cylindrical fuse links Z-C.../SE for photovoltaic applications				
• Maximum DC rated operating voltage of fuse link $1.2 \times V_{cc}$ of line (V_{cc} ... open circuit voltage of line)				
• Rated operational current I_n of Fuse link must be greater than or equal to $1.5 \times I_{sc}$ (I_{sc} ... short circuit current of PV module)				
	10 x 38	2	1000	Z-C10/SE-2A/PV 131700
	10 x 38	4	1000	Z-C10/SE-4A/PV 131701
	10 x 38	6	1000	Z-C10/SE-6A/PV 122009
	10 x 38	8	1000	Z-C10/SE-8A/PV 122070
	10 x 38	10	1000	Z-C10/SE-10A/PV 122071
	10 x 38	12	1000	Z-C10/SE-12A/PV 131702
	10 x 38	16	1000	Z-C10/SE-16A/PV 122072
	10 x 38	20	1000	Z-C10/SE-20A/PV 122073
	10 x 38	25	900	Z-C10/SE-25A/PV 131703
				10 off

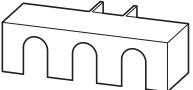
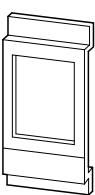


	Pole	Part no. Article no.	Price See price list	Std. pack	
Fuse switch-disconnectors, empty					
• For cylindrical fuses					
	Size 14 x 51, to 50 A	1	VLC14-1P 285361	12 off	
	Without flashing function	1 + N	VLC14-1P+N 285362	6 off	
		2	VLC14-2P 285363	6 off	
		3	VLC14-3P 285364	4 off	
		3 + N	VLC14-3P+N 285365	3 off	
	With flashing function		1	VLC14-1P/L 285371	12 off
		1 + N	VLC14-1P+N/L 285372	6 off	
		2	VLC14-2P/L 285373	6 off	
		3	VLC14-3P/L 285374	4 off	
		3 + N	VLC14-3P+N/L 285375	3 off	
	Size 22 x 58, to 100 A	1	VLC22-1P 285366	3 off	
	Without flashing function	1 + N	VLC22-1P+N 285367	2 off	
		2	VLC22-2P 285368	2 off	
		3	VLC22-3P 285369	1 off	
		3 + N	VLC22-3P+N 285370	1 off	
	With flashing function		1	VLC22-1P/L 285376	3 off
		1 + N	VLC22-1P+N/L 285377	2 off	
		2	VLC22-2P/L 285378	2 off	
		3	VLC22-3P/L 285379	1 off	
		3 + N	VLC22-3P+N/L 285380	1 off	

Size	Rated operational current I_e A	Rated operational voltage U_e V AC	Part no. Article no. Utilization category gg (gL)	Price See price list	Rated operational voltage U_e V AC	Part no. Article no. Utilization category aM	Price See price list	Std. pack
Cylindrical fuse inserts Z-C.../SE								
	10 x 38	1	500 Z-C10/SE-1A/GG 112156	500	Z-C10/SE-1A/AM 112188			10 off
		2	500 Z-C10/SE-2A/GG 112157	500	Z-C10/SE-2A/AM 112189			
		4	500 Z-C10/SE-4A/GG 112158	500	Z-C10/SE-4A/AM 112190			
		6	500 Z-C10/SE-6A/GG 112159	500	Z-C10/SE-6A/AM 112191			
		8	500 Z-C10/SE-8A/GG 112160	500	Z-C10/SE-8A/AM 112192			
		10	500 Z-C10/SE-10A/GG 112161	500	Z-C10/SE-10A/AM 112193			
		12	500 Z-C10/SE-12A/GG 112162	500	Z-C10/SE-12A/AM 112194			
		16	500 Z-C10/SE-16A/GG 112163	500	Z-C10/SE-16A/AM 112195			
		20	500 Z-C10/SE-20A/GG 112164	400	Z-C10/SE-20A/AM 112196			
		25	500 Z-C10/SE-25A/GG 112165	400	Z-C10/SE-25A/AM 112197			
		32	400 Z-C10/SE-32A/GG 112166	400	Z-C10/SE-32A/AM 112198			
	14 x 51	2	690 Z-C14/SE-2A/GG 112167	690	Z-C14/SE-2A/AM 112199			
		4	690 Z-C14/SE-4A/GG 112168	690	Z-C14/SE-4A/AM 112200			
		6	690 Z-C14/SE-6A/GG 112169	690	Z-C14/SE-6A/AM 112201			
		8	690 Z-C14/SE-8A/GG 112170	690	Z-C14/SE-8A/AM 112202			
		10	690 Z-C14/SE-10A/GG 112171	690	Z-C14/SE-10A/AM 112203			
		12	690 Z-C14/SE-12A/GG 112172	690	Z-C14/SE-12A/AM 112204			
		16	690 Z-C14/SE-16A/GG 112173	690	Z-C14/SE-16A/AM 112205			
		20	690 Z-C14/SE-20A/GG 112174	690	Z-C14/SE-20A/AM 112206			
		25	690 Z-C14/SE-25A/GG 112175	690	Z-C14/SE-25A/AM 112207			
		32	690 Z-C14/SE-32A/GG 112176	500	Z-C14/SE-32A/AM 112208			
		40	500 Z-C14/SE-40A/GG 112177	500	Z-C14/SE-40A/AM 112209			
		50	500 Z-C14/SE-50A/GG 112178	500	Z-C14/SE-50A/AM 112210			
	22 x 58	16	690 Z-C22/SE-16A/GG 112179	690	Z-C22/SE-16A/AM 112211			
		20	690 Z-C22/SE-20A/GG 112180	690	Z-C22/SE-20A/AM 112212			
		25	690 Z-C22/SE-25A/GG 112181	690	Z-C22/SE-25A/AM 112213			
		32	690 Z-C22/SE-32A/GG 112182	690	Z-C22/SE-32A/AM 112214			
		40	690 Z-C22/SE-40A/GG 112183	690	Z-C22/SE-40A/AM 112215			
		50	500 Z-C22/SE-50A/GG 112184	690	Z-C22/SE-50A/AM 112216			
		63	500 Z-C22/SE-63A/GG 112185	500	Z-C22/SE-63A/AM 112217			
		80	500 Z-C22/SE-80A/GG 112186	500	Z-C22/SE-80A/AM 112218			
		100	500 Z-C22/SE-100A/GG 112187	500	Z-C22/SE-100A/AM 112219			

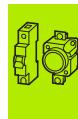
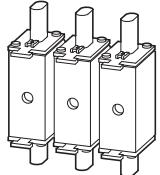


	Rated operating current I_e A	Max. fuse link 500 V A			Part no. Article no.	Price See price list	Std. pack	Notes
		690 V A	Size					
LV h.b.c. fuse bases								
3 pole								
	160	160	100	NH00	GS00-160 026741		1 off	–
	250	250	200	NH1	GSU1 289016		1 off	–
	400	400	315	NH2	GSU2 289017		1 off	–
	630	630	500	NH3	GSU3 289018		1 off	–
LV h.b.c. fuse switch-disconnectors								
For fitting on mounting plate								
	1 pole without hand guard	160	160	100	NH00	GSTA00-160-1P 225000	1 off	For fitting to GSTA00-160 for four pole LV h.b.c. fuse switch-disconnector, two devices can be combined to two pole LV h.b.c. fuse switch-disconnector
	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	–
	Rated operational voltage U_e V	Fuse link Size			For use with	Part no. Article no.	Price See price list	Std. pack
Set of connecting links								
	–	00		GSTA00-160-1P	V-GSTA00-1P 228173		1 off	
Cover with fuse monitoring								
<ul style="list-style-type: none"> One green operation indicator LED, three red error indication LEDs (F1, F2, F3) Error message through relay contacts (floating) 1 N/O + 1 NC AC15: 24 V/4 A, 230 V/3 A AC13: 24 V/1 A, 220 V/0.5 A, terminal capacity 0.25 – 1.5 mm ²								
	400 - 690 V AC / 50 - 60 Hz	00		GSTA00...	GST00-DSI 107956		1 off	
	400 - 690 V AC / 50 - 60 Hz	1		GSTA1...	GST1-DSI 107957		1 off	
	400 - 690 V AC / 50 - 60 Hz	2		GSTA2...	GST2-DSI 107958		1 off	
	400 - 690 V AC / 50 - 60 Hz	3		GSTA3...	GST3-DSI 107959		1 off	

Fuse link Size	For use with	Connection	Part no. Article no.	Price See price list	Std. pack
Busbar tag shroud 1 pole					
	00	GSTA00-160-1P	Connection top or bottom	ZBS-GSTA00-1P 119006	2 off
	1	GSTA1-1P	Connection top or bottom	ZBS-GSTA1-1P 119007	2 off
	3	GSTA3-1P	Connection top or bottom	ZBS-GSTA3-1P 119008	2 off
Busbar tag shroud 3 pole					
	00	GSTA00-160	Connection top or bottom	ZBS-GSTA00 014411	10 off
	1	GSTA1	Connection at the top	ZBS-GSTA1 082800	10 off
	1	GSTA1	Connection at the bottom	ZBSU-GSTA1 082804	10 off
	2	GSTA2	Connection at the top	ZBS-GSTA2 082801	5 off
	2	GSTA2	Connection at the bottom	ZBSU-GSTA2 082805	10 off
	3	GSTA3	Connection at the top	ZBS-GSTA3 082802	1 off
	3	GSTA3	Connection at the bottom	ZBSU-GSTA3 082806	10 off
For use with			Part no. Article no.	Price See price list	Std. pack
Clip set					
able to be fitted later, adjustable snap fitting to two top hat rails to IEC/EN 60715 (35 mm) For intervals between busbar centres of 100 - 125 mm					
	-	GSTA00-160	C-GSTA00 040922		5 off
One set comprises 3 clamp-type terminals.					
	Terminal range 1 x (70 - 150) mm ² Cu/Al	GSU1, GST...1	PSK1 038734		1 off
	Terminal range 1 x (120 - 240) mm ² Cu/Al	GSU2, GST...2	PSK2 043480		1 off
	Terminal range 1 x (120 - 300) mm ² Cu/Al	GSU3, GST...3	PSK3 048226		1 off
Sets of double clamp-type terminals					
One set comprises 3 double clamp-type terminals					
	Terminal range 2 x (70 - 95) mm ² Cu/Al	GSU1, GST...1	PSK12 041107		1 off
	Terminal range 2 x (120 - 150) mm ² Cu/Al	GSU2, GST...2	PSK22 045853		1 off
	Terminal range 2 x (120-240) mm ² Cu/Al	GSU3, GST...3	PSK32 050599		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
					



Size	Rated operational current I_e A	Part no. Article no.	Price See price list	Std. pack
LV h.b.c. fuse links				
	00	Z-NH-00/10 289998		3 off
	00	Z-NH-00/16 289999		3 off
	00	Z-NH-00/20 290000		3 off
	00	Z-NH-00/25 290001		3 off
	00	Z-NH-00/35 290002		3 off
	00	Z-NH-00/40 290003		3 off
	00	Z-NH-00/50 290004		3 off
	00	Z-NH-00/63 290005		3 off
	00	Z-NH-00/80 290006		3 off
	00	Z-NH-00/100 290007		3 off
	00	Z-NH-00/125 290008		3 off
	00	Z-NH-00/160 290009		3 off
	1	Z-NH-1/50 290010		3 off
	1	Z-NH-1/63 290011		3 off
	1	Z-NH-1/80 290012		3 off
	1	Z-NH-1/100 290013		3 off
	1	Z-NH-1/125 290014		3 off
	1	Z-NH-1/160 290015		3 off
	1	Z-NH-1/200 290016		3 off
	1	Z-NH-1/250 290017		3 off
	2	Z-NH-2/100 290018		3 off
	2	Z-NH-2/125 290019		3 off
	2	Z-NH-2/160 290020		3 off
	2	Z-NH-2/200 290021		3 off
	2	Z-NH-2/250 290022		3 off
	2	Z-NH-2/315 290023		3 off
	2	Z-NH-2/400 290024		3 off
	3	Z-NH-3/250 290025		3 off
	3	Z-NH-3/315 290026		3 off
	3	Z-NH-3/400 290027		3 off
	3	Z-NH-3/500 290028		3 off
	3	Z-NH-3/630 290029		3 off



Engineering

Influence of the ambient temperature on the thermal trip behavior

Corrected values of the rated operational current dependent on the ambient temperature

FAZ..., FAZT...

FAZ-...-NA, FAZ-...-RT

Ambient temperature T [°C]																	
I _n [A]	-40	-30	-20	-10	0	10	20	30	35	40	45	50	55	60	65	70	75
0.16	0.20	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	0.14	0.14	0.13
0.25	0.32	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	0.22	0.21	0.21
0.5	0.64	0.62	0.60	0.58	0.56	0.54	0.52	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.41
0.75	0.96	0.93	0.90	0.87	0.84	0.81	0.78	0.75	0.74	0.73	0.71	0.69	0.68	0.66	0.65	0.64	0.62
1	1.3	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	0.87	0.85	0.83
1.5	1.9	1.9	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.4	1.4	1.4	1.3	1.3	1.3	1.2	
1.6	2.0	2.0	1.9	1.9	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.3
2	2.6	2.5	2.4	2.3	2.2	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.7	1.7	1.7
2.5	3.2	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	2.2	2.1	2.1
3	3.8	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	2.6	2.5	2.5
3.5	4.5	4.4	4.2	4.1	3.9	3.8	3.7	3.5	3.4	3.4	3.3	3.2	3.2	3.1	3.0	3.0	2.9
4	5.1	5.0	4.8	4.7	4.5	4.3	4.2	4.0	3.9	3.9	3.8	3.7	3.6	3.5	3.5	3.4	3.3
5	6.4	6.0	6.0	5.8	5.6	5.4	5.2	5.0	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.1
6	7.7	7.5	7.2	7.0	6.7	6.5	6.3	6.0	5.9	5.8	5.7	5.6	5.4	5.3	5.2	5.1	5.0
8	10.2	9.9	9.6	9.3	9.0	8.7	8.4	8.0	7.9	7.7	7.6	7.4	7.2	7.1	6.9	6.8	6.6
10	13	12	12	12	11	11	10	10	9.9	9.7	9.5	9.3	9.0	8.9	8.7	8.5	8.3
12	15	15	14	14	13	13	13	12	12	12	11	11	11	11	10	10	10
13	17	16	16	15	15	14	14	13	13	13	12	12	12	12	11	11	11
15	19	19	18	17	17	16	16	15	15	15	14	14	14	13	13	13	12
16	20	20	19	19	18	17	17	16	16	15	15	15	14	14	14	14	13
20	26	25	24	23	22	22	21	20	20	19	19	19	18	18	17	17	17
25	32	31	30	29	28	27	26	25	25	24	24	23	23	22	22	21	21
32	41	40	38	37	36	35	33	32	32	31	30	30	29	28	28	27	26
40	51	50	48	47	45	43	42	40	39	39	38	37	36	35	35	34	33
50	64	62	60	58	56	54	52	50	49	48	47	46	45	44	43	42	41
63	81	78	76	73	71	68	66	63	62	61	60	58	57	56	55	53	52

Ambient temperature T [°C]								
I _n [A]	15	20	25	30	40	50	55	60
0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1.0	1.1	1.1	1.1	1.0	1.0	1.0	0.9	0.9
1.5	1.7	1.6	1.6	1.6	1.5	1.4	1.4	1.4
2.0	2.2	2.2	2.1	2.1	2.0	1.9	1.9	1.8
3.0	3.3	3.2	3.2	3.1	3.0	2.9	2.9	2.8
4.0	4.4	4.3	4.2	4.2	4.0	3.8	3.8	3.7
5.0	5.5	5.4	5.3	5.2	5.0	4.8	4.7	4.6
6.0	6.6	6.5	6.4	6.2	6.0	5.8	5.6	5.5
7.0	7.7	7.6	7.4	7.3	7.0	6.7	6.6	6.4
8.0	8.8	8.6	8.5	8.3	8.0	7.7	7.5	7.4
10.0	11.0	10.8	10.6	10.4	10.0	9.6	9.4	9.2
13.0	14.3	14.0	13.8	13.5	13.0	12.5	12.5	12.0
15.0	16.5	16.2	15.9	15.6	15.0	14.4	14.1	13.8
16.0	17.6	17.3	17.0	16.6	16.0	15.4	15.0	14.7
20.0	22.0	21.6	21.2	20.8	20.0	19.2	18.8	18.4
25.0	27.5	27.0	26.5	26.0	25.0	24.0	23.3	23.0
30.0	33.0	32.4	31.8	31.2	30.0	28.8	28.2	27.6
32.0	35.2	34.6	33.9	33.3	32.0	30.7	30.1	29.4
40.0	44.0	43.2	42.4	41.6	40.0	38.4	37.6	36.8

Heat dissipation FAZT

Depending on rated operational current I_n

I _n [A]	Characteristic C			Characteristic D		
	Pole		Pole	1	2	3
	1	2	3	P [W]	P [W]	P [W]
0.5	1.6	3.2	4.7	1.6	3.2	4.8
1	1.1	2.2	3.4	0.8	1.5	2.3
1.5	1.3	2.6	3.9	1.0	2.1	3.1
2	1.4	2.8	4.3	1.0	2.1	3.1
3	1.2	2.4	3.6	1.2	2.4	3.6
4	1.4	2.9	4.3	1.4	2.9	4.3
5	1.9	3.7	5.6	1.5	2.9	4.4
6	1.2	2.3	3.5	1.2	2.3	3.5
7	1.4	2.8	4.3	1.4	2.8	4.3
8	1.4	2.8	4.2	1.2	2.4	3.7
10	1.9	3.6	5.3	1.5	3.0	4.5
13	2.4	4.7	7.1	2.0	4.1	6.1
15	1.9	3.8	5.6	1.5	3.1	4.6
16	2.1	4.3	6.4	1.7	3.5	5.2
20	2.9	5.8	8.7	1.8	3.7	5.5
25	3.1	6.2	9.3	2.6	5.1	7.7
30	3.0	6.0	9.0	2.7	5.4	8.1
32	3.4	6.8	10.2	3.1	6.2	9.3
35	3.7	7.4	11.0	3.8	7.6	11.3
40	4.0	8.1	12.1	3.9	7.8	11.6

Heat dissipation FAZ-...-NA, FAZ-...-RT

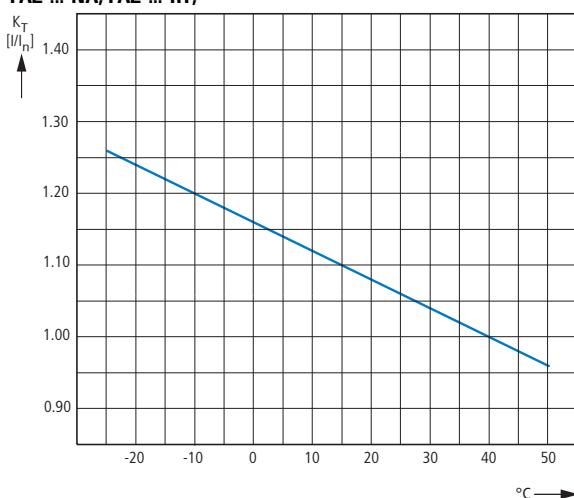
Depending on rated operational current I_n

I _n [A]	Characteristic C			Characteristic D		
	Pole		Pole	1	2	3
	1	2	3	P [W]	P [W]	P [W]
0.5	1.6	3.2	4.7	1.6	3.2	4.8
1	1.1	2.2	3.4	1.1	2.2	3.4
1.5	1.3	2.6	3.9	1.3	2.6	3.9
2	1.4	2.8	4.3	1.4	2.8	4.3
3	1.2	2.4	3.6	1.2	2.4	3.6
4	1.4	2.9	4.3	1.4	2.9	4.3
5	1.9	3.7	5.6	1.9	3.7	5.6
6	1.2	2.3	3.5	1.2	2.3	3.5
7	1.4	2.8	4.3	1.4	2.8	4.3
8	1.4	2.8	4.2	1.4	2.8	4.2
10	1.9	3.6	5.3	1.8	3.6	5.3
13	2.4	4.7	7.1	2.4	4.7	7.1
15	1.9	3.8	5.6	1.9	3.8	5.6
16	2.1	4.3	6.4	2.1	4.3	6.4
20	2.9	5.8	8.7	2.9	5.8	8.7
25	3.1	6.2	9.3	3.1	6.2	9.3
30	3.0	6.0	9.0	3.0	6.0	9.0
32	3.4	6.8	10.2	3.4	6.8	10.2
35	3.7	7.4	11.0	3.7	7.4	11.0
40	4.0	8.1	12.1	4.0	8.1	12.1



Influence of the ambient temperature on the tripping behavior

FAZ-...-NA, FAZ-...-RT,



K_T = rated diversity factor

PDIM leakage current meters

Contour and rail mounting compatible with other devices of the P series
Freely selectable rail arrangement top and bottom
Free terminal compartment despite fitted busbar
Power supply through ordering of the four conductors
Electronic operation (independent of mains voltage)

Mains connection on either side.
The 4 pole switch can also be used as 3 pole switch.
To do this, use terminals 1-2, 3-4 and 5-6.
The 4 pole switch can also be used as 2 pole switch.
To do this, use terminals 5-6 and N-N.
2 relays (N/O, parallel to yellow and red LED), floating
(up to 10 A/230 V~)

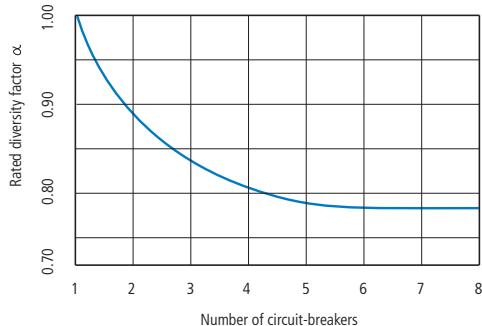
Function

Green LED lit on 0 – 30 % of set I_{Δn}.
Yellow LED lit on 30 – 50 % of set I_{Δn}.
Red LED lit on > 50 % of set I_{Δn}.
The yellow LED goes out when tripped if the measured fault current < 30 % of the set I_{Δn}.
The red LED goes remains lit when tripped, even if when the measured fault current < 50 % of the set I_{Δn}.
The red LED goes out only when the Reset button is pressed.
Only one LED lights up at any one time.
An output relay is always connected parallel to the yellow or red LED.
Depending on the set RCCB (non-delayed, G, or S) the fault current must flow for a specific time before an action takes place.

Test function

Rotary coding switch for RCCB function set to "TEST".
A fault current of 30 % and 50 % I_{Δn} is simulated in alternation.
The yellow and red LED flash alternately (1 Hz); both output relays are continually picked up.

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



Influence of the mains frequency

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

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

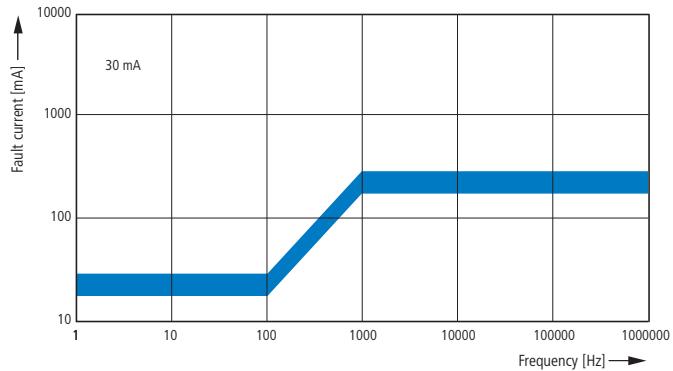


Residual-current devices

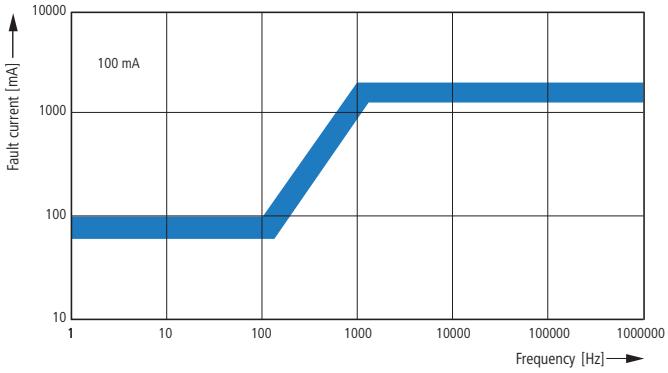
FI-...-B

Frequency response of the tripping current

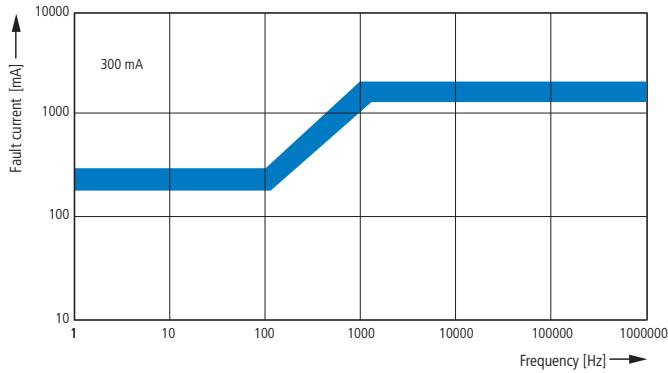
30 mA



100 mA



300 mA

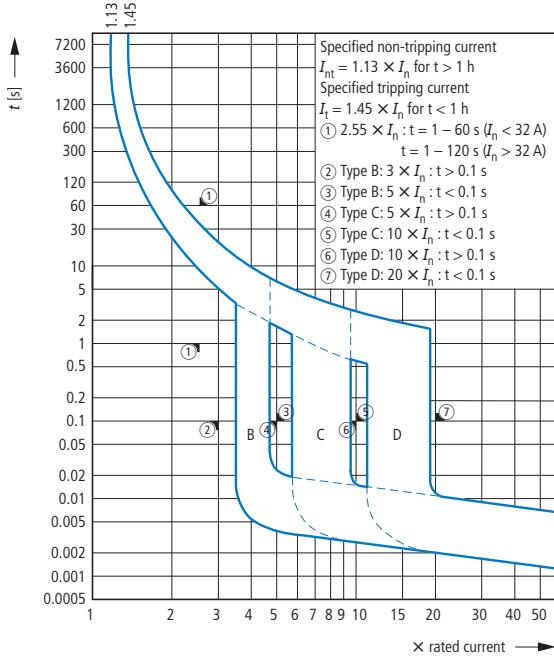


Miniature circuit-breakers (MCB)

FAZ...

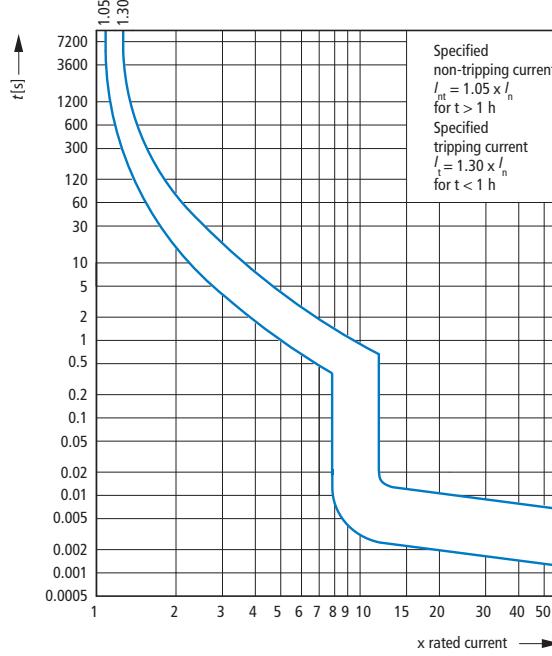
Tripping characteristics at 30 °C:

B, C, D to IEC/EN 60898



Tripping characteristics at 30 °C:

K according to IEC/EN 60947

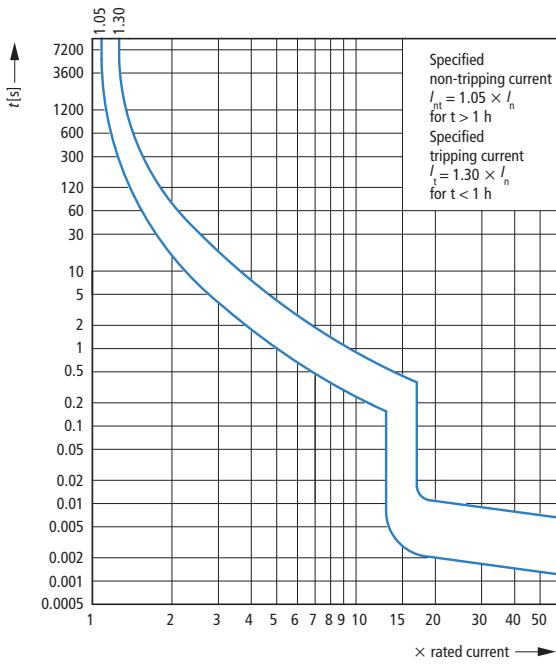


Miniature circuit-breakers (MCB)

FAZ...

Tripping characteristics at 30 °C:

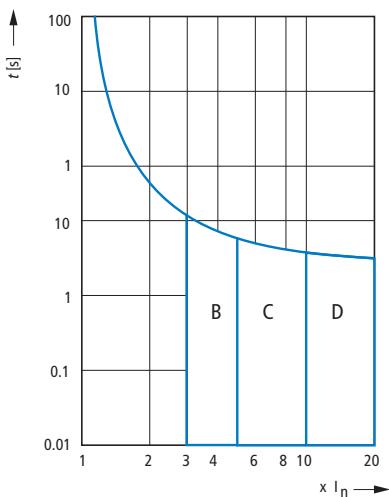
S according to IEC/EN 60947



FAZT

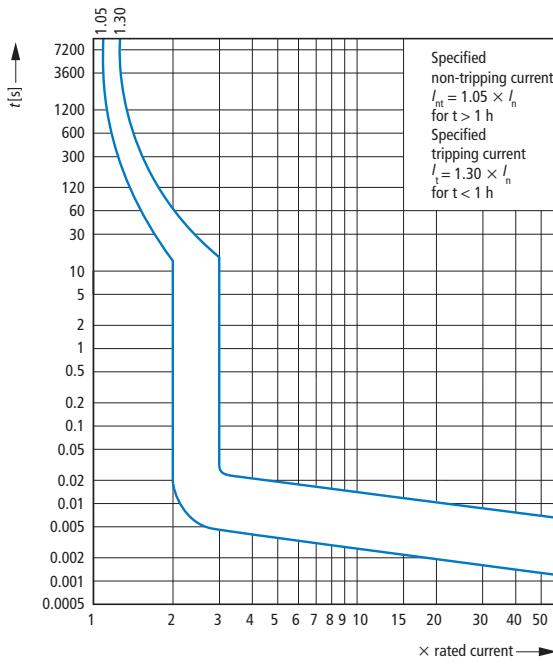
Tripping characteristics FAZT at 30 °C

B, C, D to IEC/EN 60898



Tripping characteristics at 30 °C:

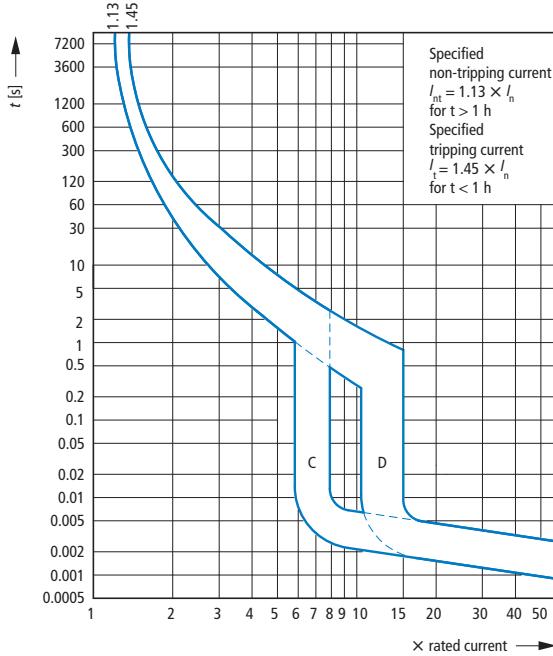
Z according to IEC/EN 60947



AZ...

Tripping characteristics at 30 °C:

C, D according to IEC/EN 60898

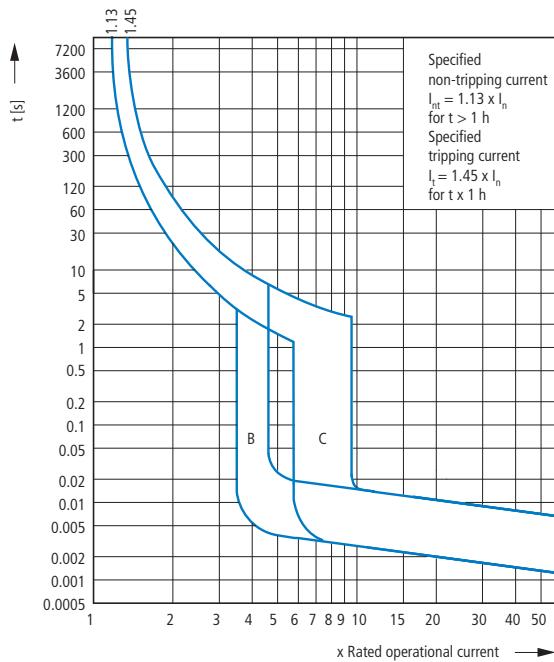


Combination switches

PKNM...

Tripping characteristics at 30 °C:

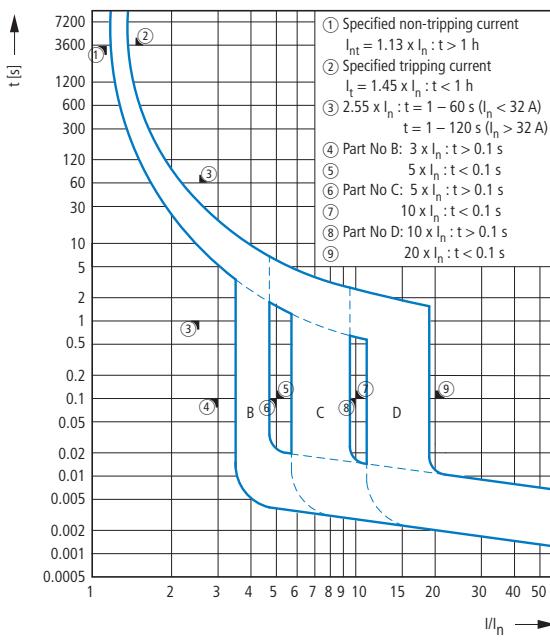
B, C according to IEC/EN 61009



mRB6..., mRB4...

Tripping characteristics

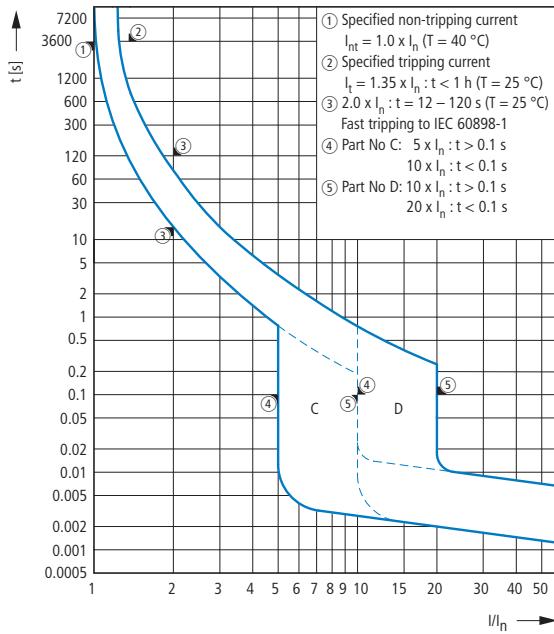
B, C, D according to IEC/EN 61009



Miniature circuit-breakers (MCB)

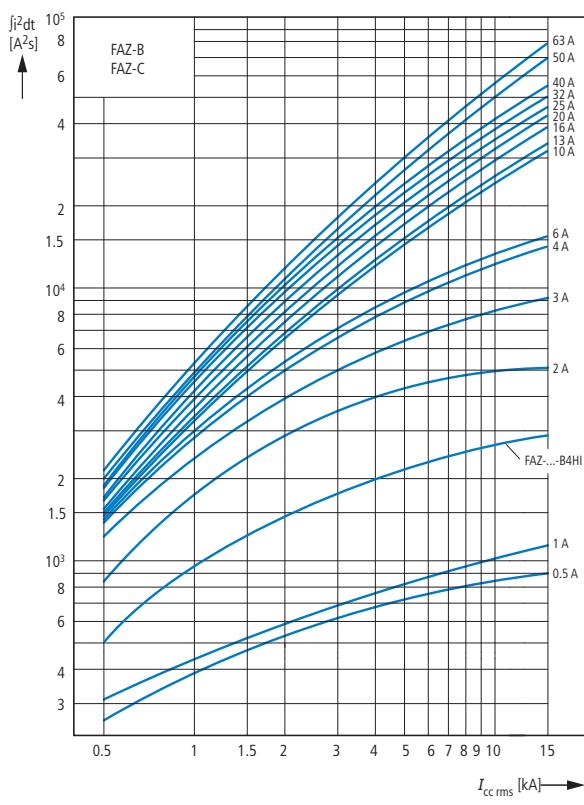
FAZ-...-NA, FAZ-...-RT

Tripping characteristics according to UL 489

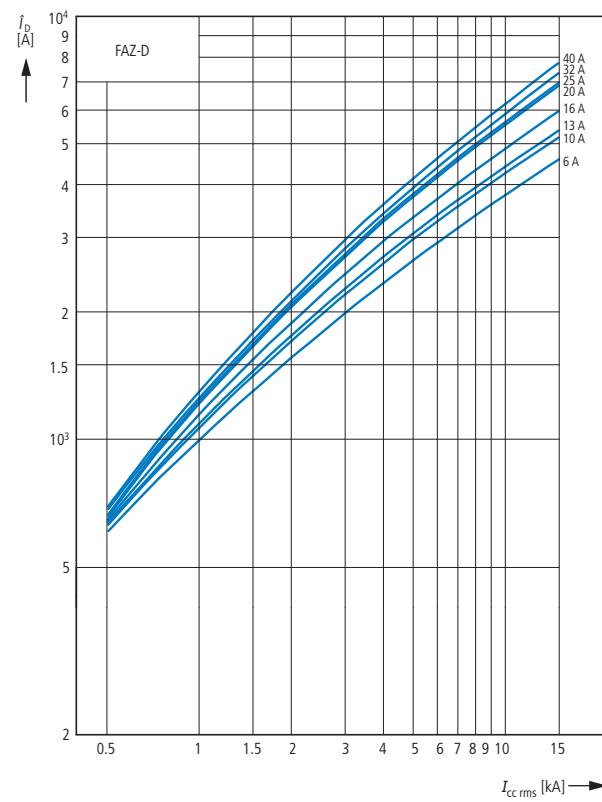
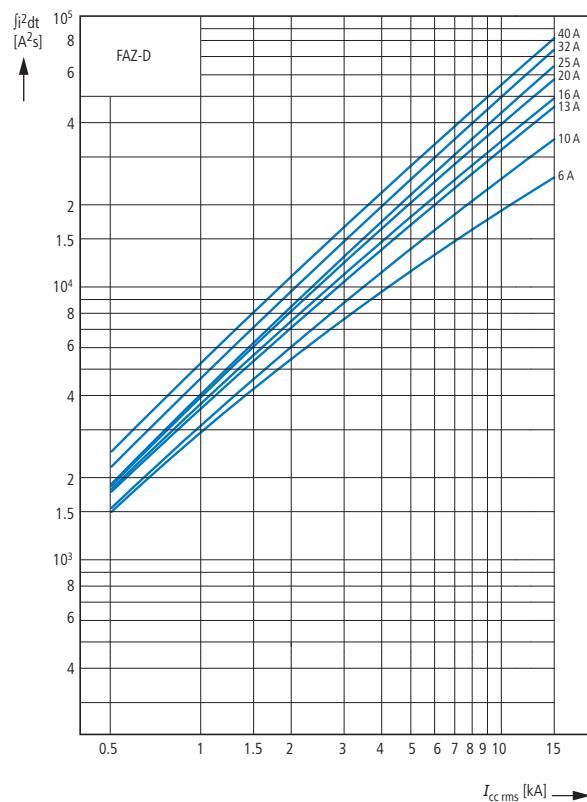
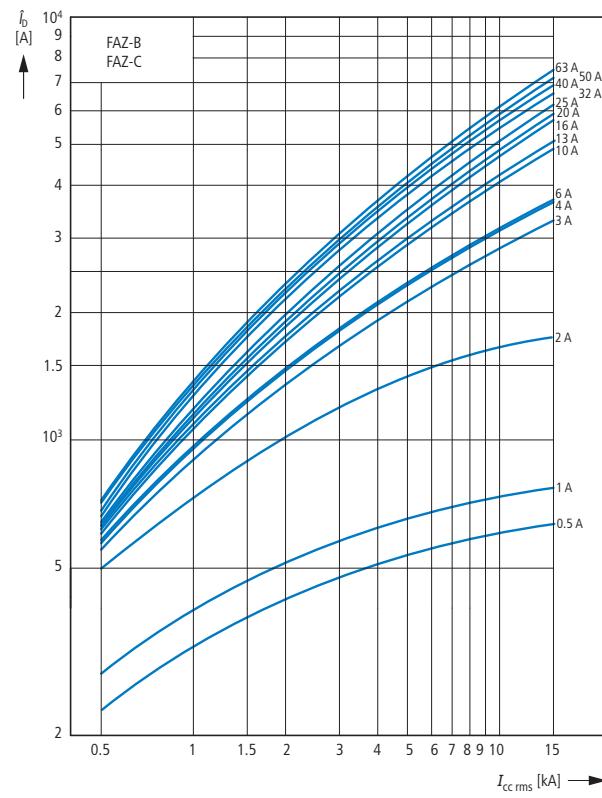


Miniature circuit-breakers (MCB)**FAZ...**Let-through energy I^2t

According to IEC/EN 60898

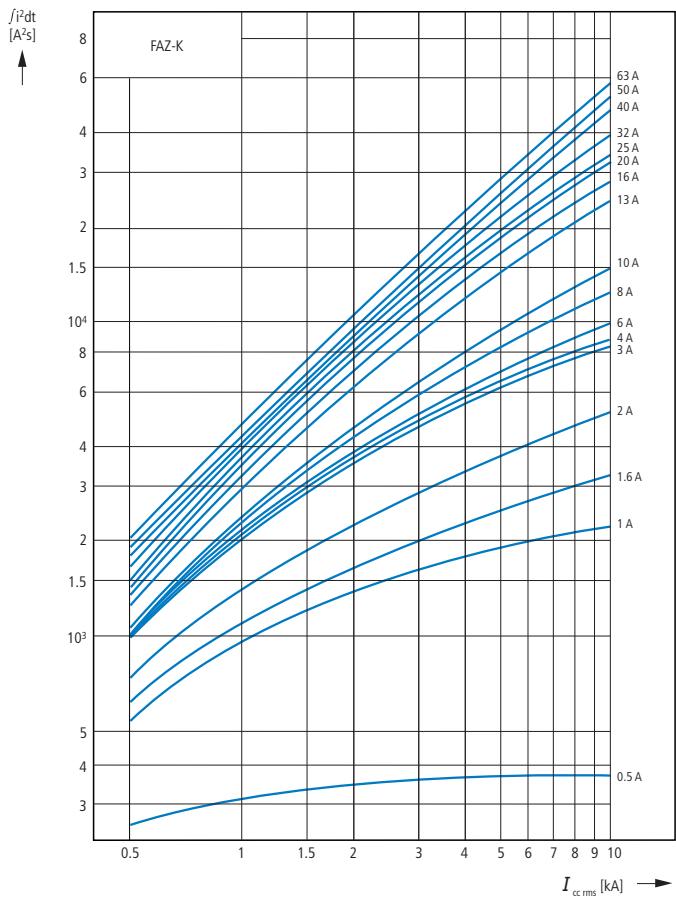
Let-through current I_D

According to IEC/EN 60898

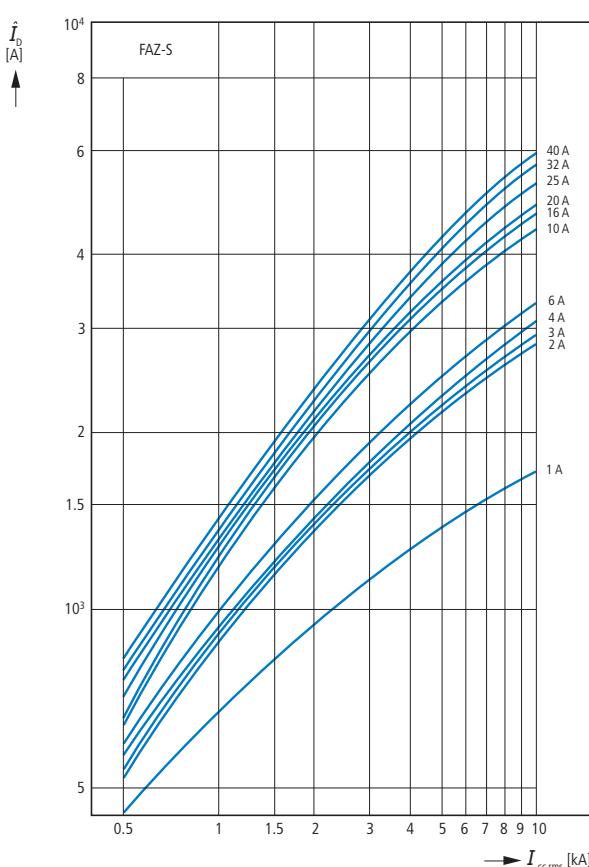
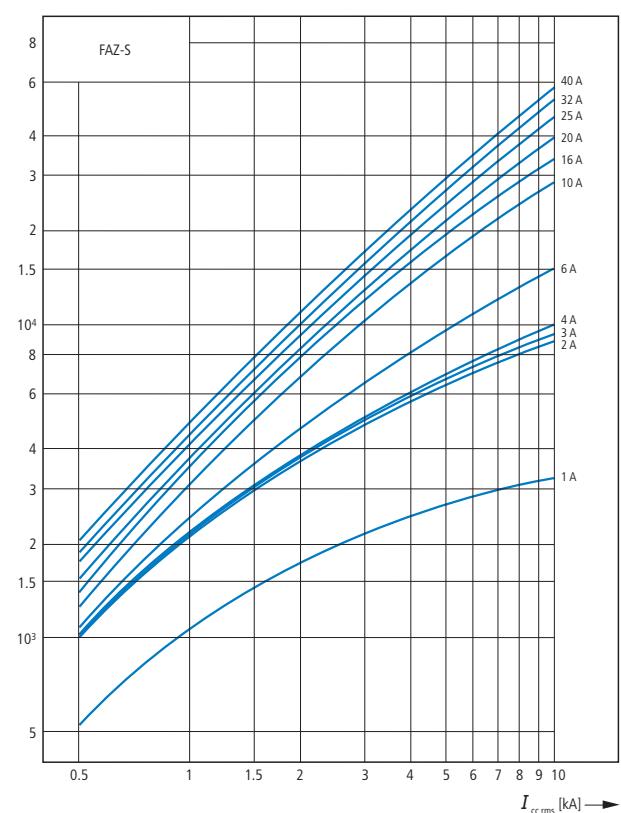
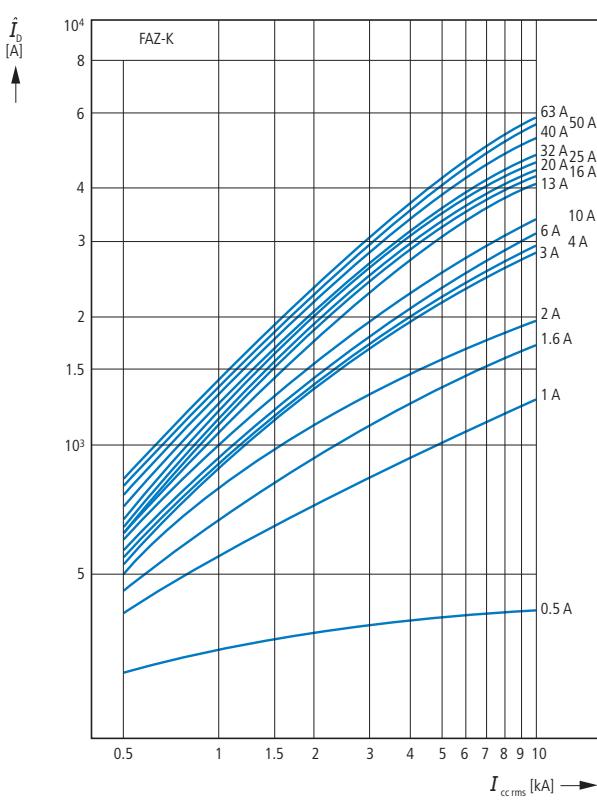


Miniature circuit-breakers (MCB)**FAZ...**Let-through energy I^2t

According to IEC/EN 60898

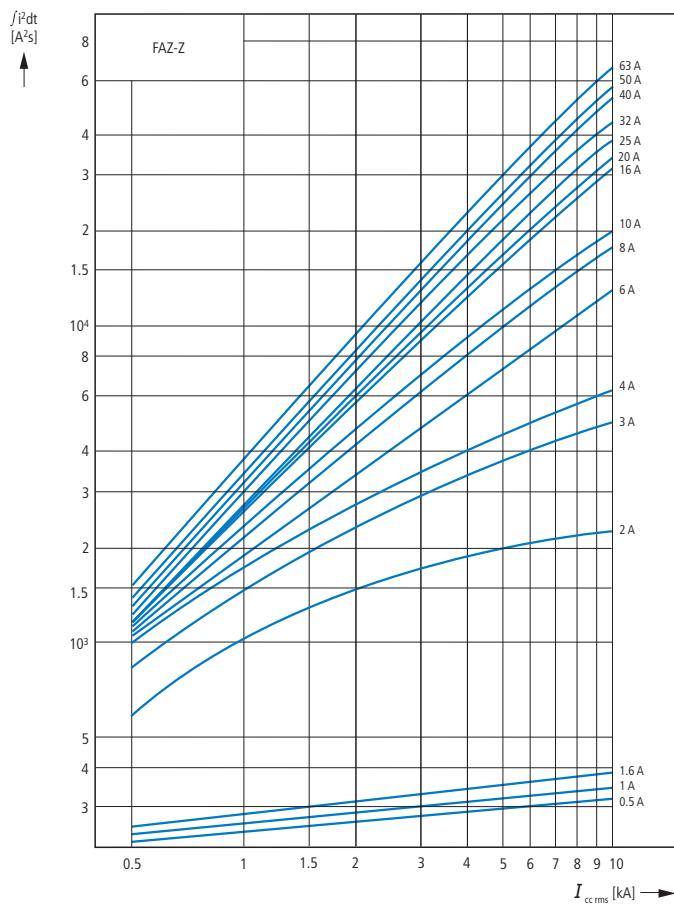
Let-through current I_d

According to IEC/EN 60898

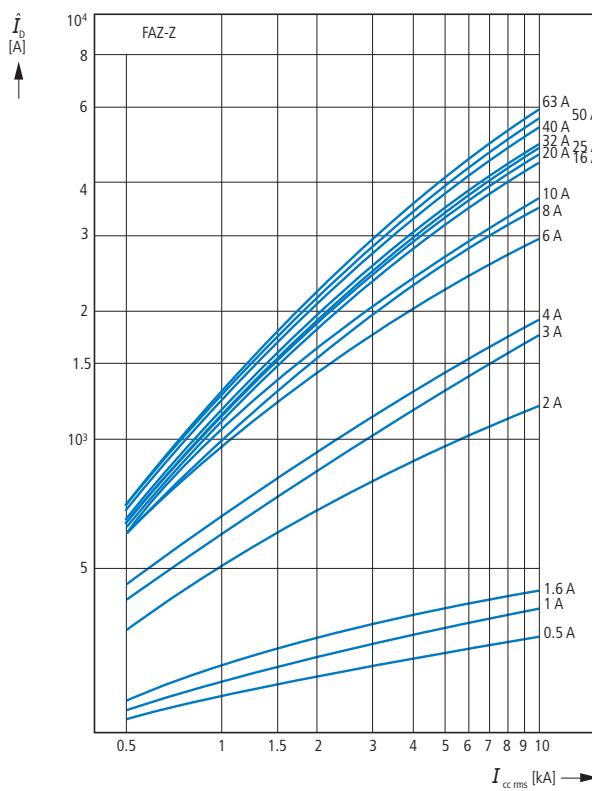
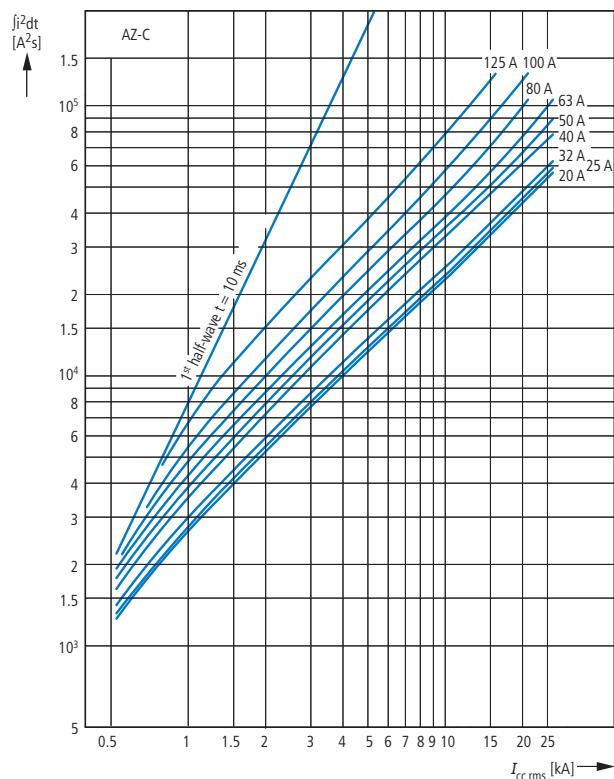
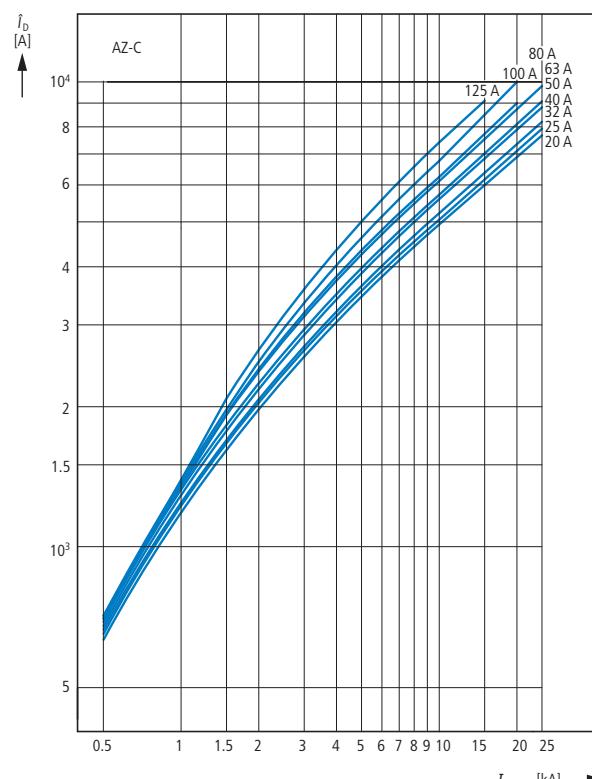


Miniature circuit-breakers (MCB)**FAZ...**Let-through energy I^2t

According to IEC/EN 60898

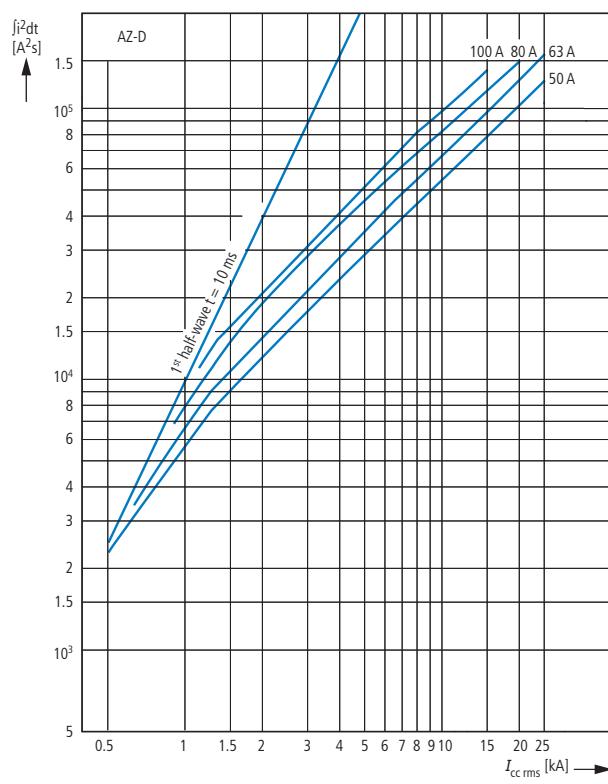
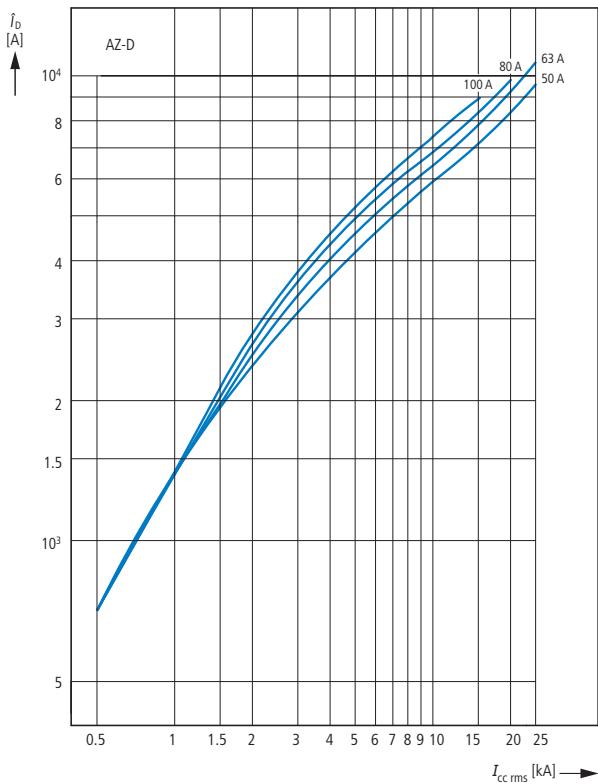
Let-through current I_D

According to IEC/EN 60898

**AZ...**Let-through energy I^2t Let-through current I_D 

Miniature circuit-breakers

AZ...

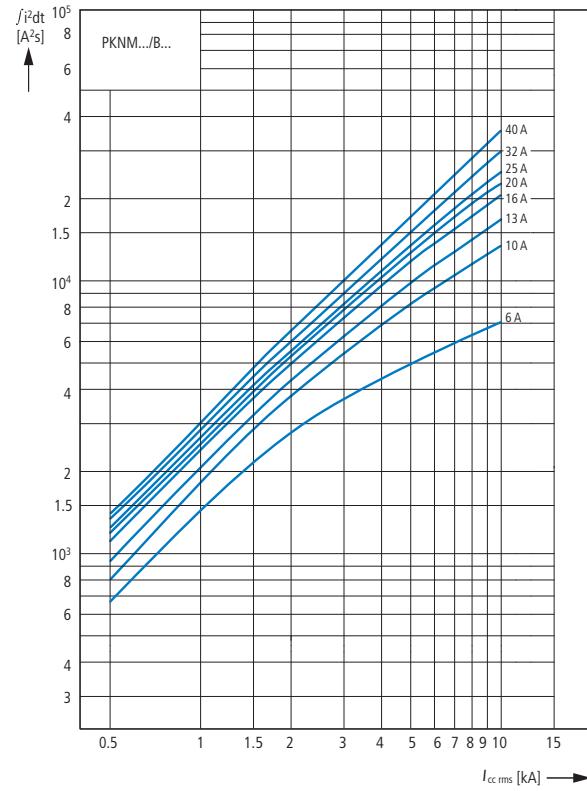
Let-through energy I^2t Let-through current I_D 

Combination switches

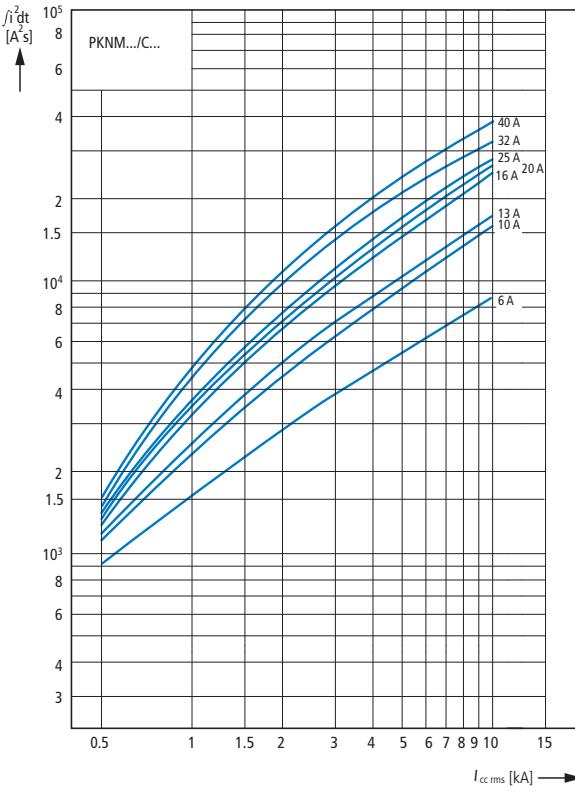
PKNM-...

Let-through energy I^2t

According to IEC/EN 60898

Let-through current I_D

According to IEC/EN 60898

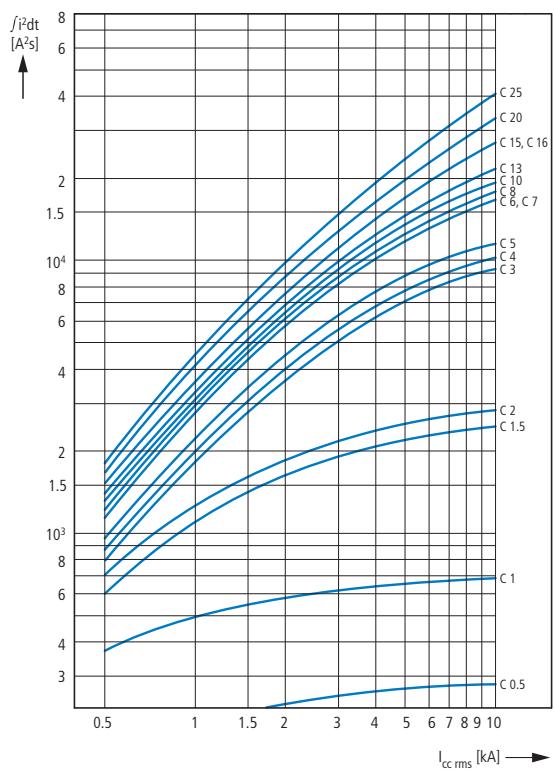


Miniature circuit-breakers (MCB)

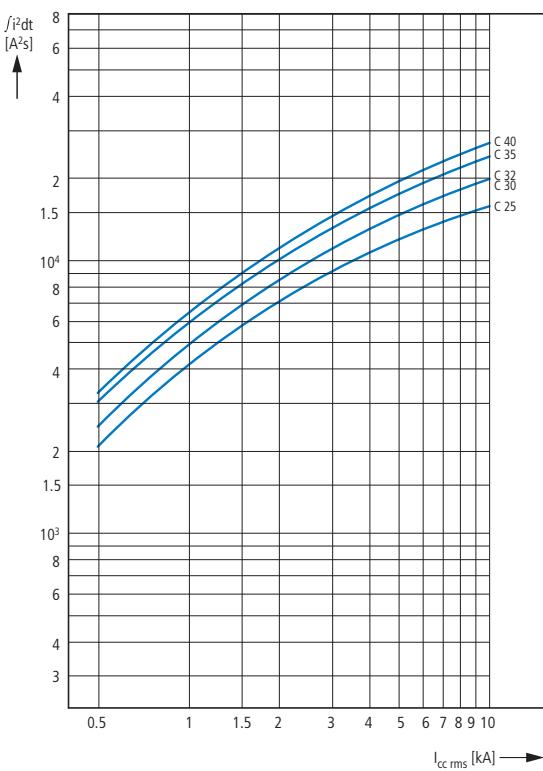
FAZ-...NA, FAZ-...RT

Let-through energy I^2t

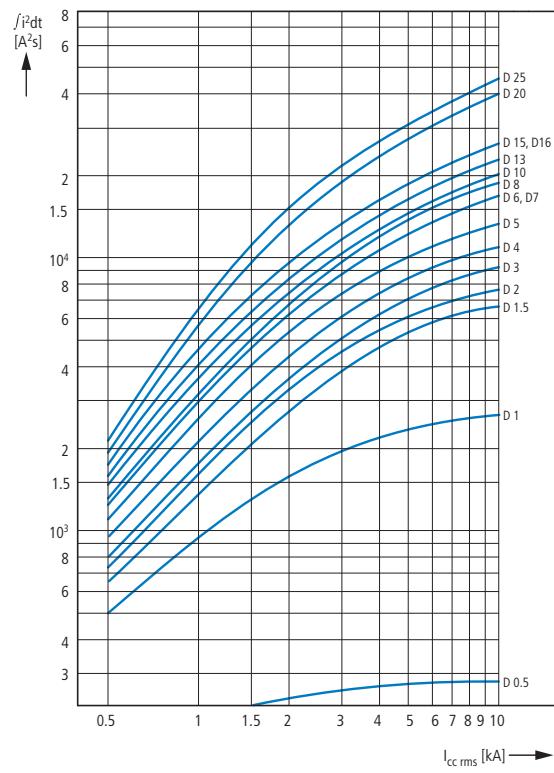
Characteristic C (0.5 - 20 A), 277 V



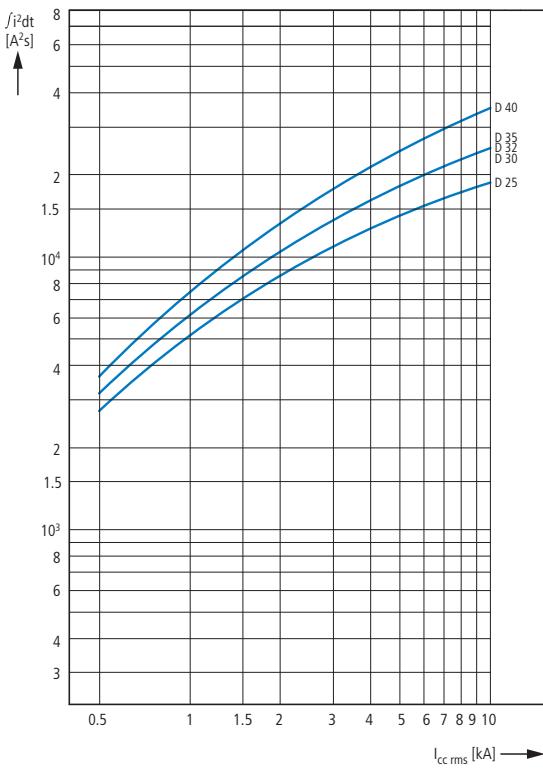
Characteristic C (25 - 40 A), 240 V



Characteristic D (0.5 - 20 A), 277 V

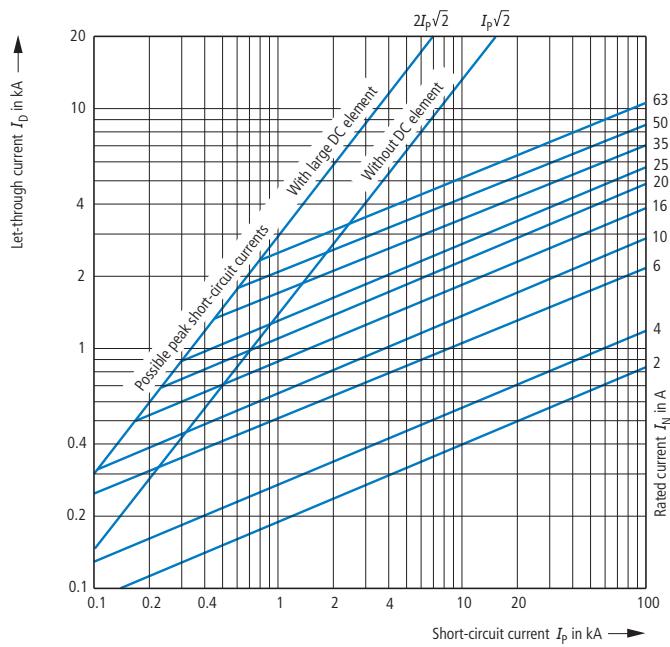
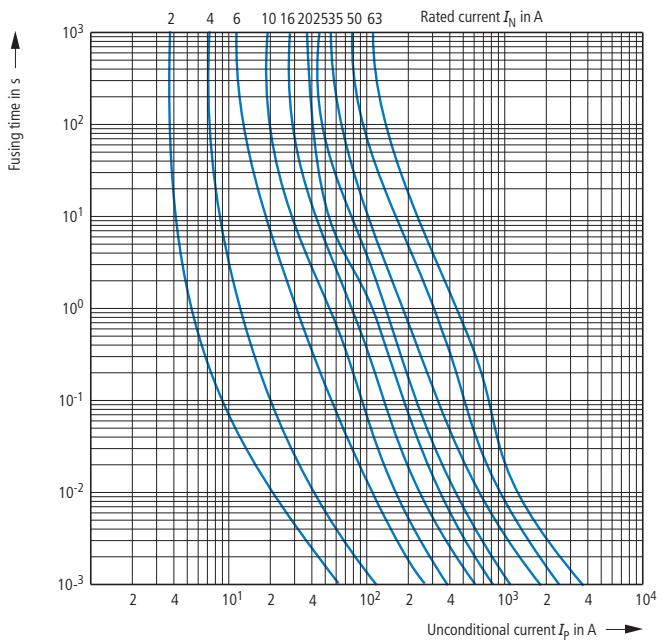


Characteristic D (25 - 40 A), 240 V

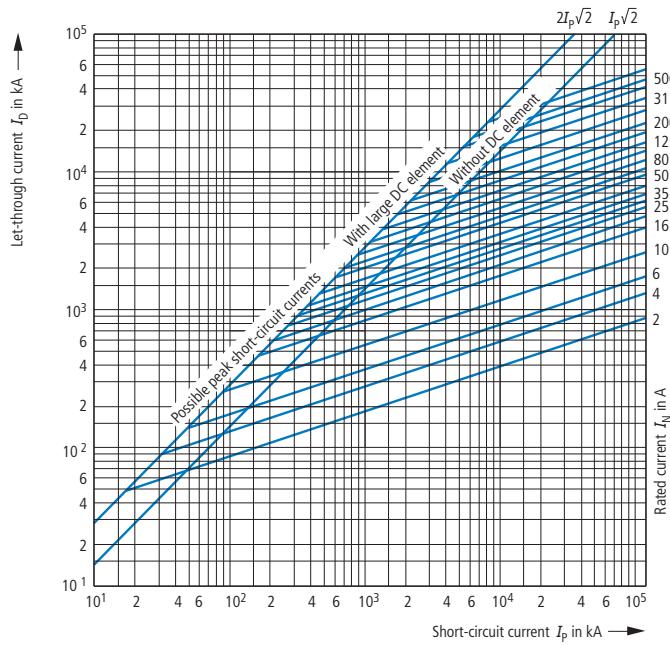
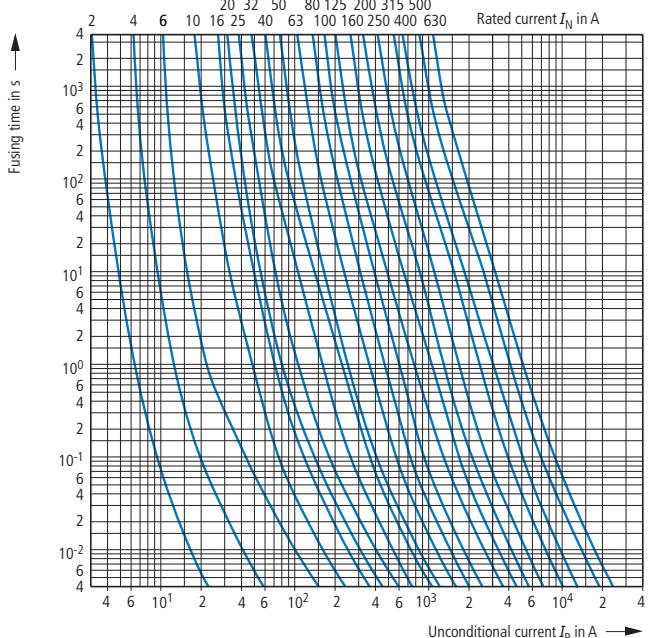


Fuse links**Z-DO.../S...**

Let-through current

**Time/current characteristics****LV h.b.c. fuse links****Z-NH...**

Let-through current

**Time/current characteristics**

Technical data

	FAZ	FAZ-...-DC	FAZ-PN	AZ
Electrical				
Standards	IEC/EN 60947-2 IEC/EN 60898	IEC/EN 60947-2	IEC/EN 60898	IEC/EN 60947-2
Rated operating voltage	V AC V DC	230/400 48 (per pole)	- 250 (per pole)	230 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, K, S, Z	C	B, C Similar: D, C
Max. back-up fuse	A gL/gG	125	100	100 200
Selectivity class		3	3	Compliant with Class 3
Lifespan	Operations	> 10000	> 10000	> 4000 > 10000
Direction of incoming supply		Any	Polarized	Any
Mechanical				
Standard front dimension	mm	45		
Device 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		Top-hat rail to IEC/EN 60715		
Protection type		IP20, IP40 (enclosed)		
Terminals top and bottom		Twin-purpose terminals		
Terminal capacity				
Solid	mm ²	1 x 25	1 x 25	1 x 16 2.5 - 50
Flexible	mm ²	2 x 10	2 x 10	- -
Thickness of busbar material	mm	0.8 - 2	0.8 - 2	- -
Mounting position		Any		

	FAZT
Electrical	
Standards	IEC/EN 60947-2
Rated voltage	V AC V DC
Rated frequency	f Hz
Rated switching capacity	
B, C (to 13 kA); D (to 10 kA)	kA 25
B, C (16-25 kA); D (12-16 kA)	kA 20
Characteristic	B, C, D
Lifespan	Operations 20000
Direction of incoming supply	Any
Mechanical	
Standard front dimension	mm 45
Device height	mm 80
Mounting width per pole	mm 17.5
Mounting	Quick attachment with three engagement positions for top-hat rail to IEC/EN 60715
Protection type	IP20
Terminals top and bottom	Twin-purpose terminals
Terminal protection	Finger and back-of-hand proof to BGV A3, ÖVE-EN 6
Terminal capacity	mm ² 1 - 25
Tightening torque	Nm 2 - 2.4
Thickness of busbar material	mm 0.8 - 2 (except N 0.5 space unit)
Mounting position	Any



19/66 Circuit-breakers, fuses
Residual-current devices
PKNM, FIM, AZFIMP, FI

	PKNM	FIM	AZFIMP	FI $\leq 100 \text{ A}$	FI 125 A and Type B
Electrical					
Standards and regulations	IEC/EN 61009	IEC/EN 61009	IEC/EN 60947-2	IEC/EN 61008	IEC/EN 61008
Tripping	A	250 (8/20 μs) non-delayed surge resistant		Non-delayed, S	
Rated operational voltage	U_e V AC	230	230/400	230/400	230/400
Operating limit values	V AC	196 - 253	196 - 440	196 - 440	184 - 440
Rated frequency	f Hz	50			
Rated fault currents	$I_{\Delta n}$ mA	30, 300	30, 300	30, 100, 300, 500	30, 100, 300, 500
Rated non-tripping current		$0.5 \times I_{\Delta n}$	$0.5 \times I_{\Delta n}$	$0.5 \times I_{\Delta n}$	$0.5 \times I_{\Delta n}$
Rated fault switching capacity	$I_{\Delta n}$ A	-	-	$I_n = 16-40 \text{ A}: 500$ $I_n = 63 \text{ A}: 630$ $I_n = 80 \text{ A}: 800$ $I_n = 100 \text{ A}: 1000$	$I_n = 125 \text{ A}: 1250$ for type B: 60, 80 A: 800 40 A: 500 125 A: 1250
230 V	kA	6	-	-	-
400 V	kA	3	-	-	-
Sensitivity		DC and pulsed current			
Rated switching capacity	I_{cn} kA	10	As fitted FAZ	As fitted AZ	10
Operational switching capacity	I_{cs} kA	-	As fitted FAZ	-	-
Rated ultimate breaking capacity	I_{cu}	-	As fitted AZ	As fitted AZ	-
Rated short-circuit switching capacity		-	-	$= I_{cu}$	-
Rated operational current	I_e A	6 - 40	40, 63	80, 125	16 - 100
Rated impulse withstand voltage	U_{imp} kV	6 (1.2/50 μs)	-	4 (1.2/50 μs)	6
Characteristic		B, C	-	-	-
Maximum back-up fuse as short-circuit protective device	A gL	100	-	-	$I_n = 16-63 \text{ A}: 63$ $I_n = 80 \text{ A}: 80$ $I_n = 100 \text{ A}: 100$
Selectivity class		3	-	-	-
Lifespan					
Electrical	Operations	> 4000	-	> 1500	> 4000
Mechanical	Operations	-	-	> 10000	> 20000
Mechanical					
Standard front dimension	mm	45	45	45	45
Device height	mm	80	90	90	80
Terminal protection		Busbar tag shroud to BGV A2			
Mounting width	mm	35 (2 SU)	70 (2 pole), 125 (4 pole)	95 (5.5 SU)	35 (2 space unit), 70 (4 space units)
Mounting		-	Permanently screw-connected to FAZ	Screwed on to AZ (2 to 4 pole)	IEC/EN 60715 top-hat rail
Protection type					
Circuit-breaker		IP20	-	-	-
Enclosed		IP40	IP40	IP40	IP40
Terminals top and bottom		Twin-purpose terminals	Lift terminals	Lift terminals	Twin-purpose terminals
Terminal capacity					
Solid	mm ²	1 x 25	1 x (1 - 25)	2.5 - 50	1.5 - 35
Flexible	mm ²	-	1 x (0.75 - 16)	-	2 x 16
Thickness of busbar material	mm	0.8 - 2	0.8 - 2	-	0.8 - 2
Admissible ambient temperature range	°C	-25 - +40	-25 - +40	-25 - +40	-25 - +40
Climatic proofing		IEC/EN 61009	IEC/EN 61009	IEC/EN 60068-2	IEC/EN 61008



	mRB6...	mRB4...
Electrical		
Standards		IEC/EN 61009
Tripping	A	IEC/EN 61009
Rated operating voltage	U_o	V AC
Rated frequency	f	Hz
Rated fault currents	$I_{\Delta n}$	mA
Rated fault non-tripping current		$0.5 \times I_{\Delta n}$
Sensitivity		DC and pulsed current
Rated switching capacity	I_{cn}	kA
Rated operational current	I_e	A
Rated impulse withstand voltage	U_{imp}	kV
Characteristic		B, C, D
Maximum back-up fuse as short-circuit protective device		A gL
Selectivity class		100
Lifespan		3
Electrical	Operations	> 4000
Mechanical	Operations	> 20000
Mechanical		
Standard front dimension		mm
Device height		mm
Terminal protection		Busbar tag shroud to VBG4
Mounting width		mm
Mounting		Tristable slide catch allows removal from an existing assembly.
Protection type		
Circuit-breaker		IP20
Enclosed		IP40
Terminals top and bottom		Twin-purpose terminals
Terminal capacity		
Solid	mm ²	1 - 25
Thickness of busbar material	mm	0.8 - 2
Admissible ambient temperature range	°C	-25 - +40
Climatic proofing		According to IEC 68-2 (25 - 55 °C, 90 - 95 % rel. humidity)

	Z-CC/2CO
Electrical	
Power supply	VDC
Power consumption	W
Temperature sensor	Incl. 9 pole Sub-D plug (for RS232 interface) Measurement range -10 °C – +50 °C, accuracy: ± 2 °C
Outputs	2 floating relay outputs AC: 5 A at 250 AC DC: 5 A at 30 V DC, 0.3 A at 110 V DC and 0.12 A at 220 V DC Max. switching duty AC15 at 230 V DC: 500 VA
Inputs	4; max. 12 – 24 V DC (2 – 4 mA) isolated (optocoupler)
Ethernet interface	Required for parameterization with a PC (web browser). For connecting PC and Z-CC/2CO a crossover network cable is required (DNW-PX/0200/RJ45/RJ45).
RS232 interface	9 pole Sub-D plug for connecting an external temperature sensor
Green LED ON	Modem status LED (on registration in the GSM network the LED flashes every 3 seconds)
Red LED ON	Modem activity LED (flashes when SMS is being sent or received)
Mechanical	
Standard front dimension	mm
Device height	mm
Mounting width	mm
Mounting	Quick attachment for top-hat rail EN 50022
Protection type	
Enclosed	IP40



19/68 Circuit-breakers, fuses

Residual-current devices

dRCM...

		dRCM...
Electrical		
Standards and regulations		IEC/EN 61008, Type G and G/A to ÖVE E 8601 Current approvals as labeled
Tripping		Non-delayed
Type G, R		10 ms delayed
Type S		40 ms delay - selective switch off
Type U (only 30 mA)		10 ms delayed
Type U (except 30 mA)		40 ms delay - selective switch off
Rated voltage	U_n	V AC
Rated frequency	f	Hz
Operational voltage electronic		V AC
Operational voltage test circuit		V AC
Rated fault currents	$I_{\Delta n}$	mA
Sensitivity		DC and pulsed current
Rated insulation voltage	U_i	V
Rated impulse withstand voltage	U_{imp}	kV
Rated short-circuit strength	I_{nc}	kA
Surge current capacity		
Type G, G/A, R, U (30 mA)		kA
Type S/A, U (except 30 mA)		kA
Electrical isolation		Part no. 5 (8/20 µs) selective and surge-proof
Max. admissible back-up fuse		> 4 mm contact spacing
$I_n = 16 - 63$ A		Short-circuit and overload
$I_n = 80$ A		63
$I_n = 100$ A		80
$I_n = 100$ A		100
Lifespan		
Electrical		Operations ≥ 4000
Mechanical		Operations ≥ 20000
Mechanical		
Standard front dimension		mm 45
Device height		mm 80
Mounting width		mm 70 (4 SU)
Mounting		Quick attachment with two engagement positions for top-hat rail to IEC/EN 60715
Protection type		
Enclosed		IP40
In moisture-proof enclosure		IP54
Terminals top and bottom		Twin-purpose terminals
Terminal protection		Busbar tag shroud to BGV A3
Terminal capacity		
Solid		mm ² 1 - 35
Stranded		mm ² 2 x 16
Terminal screws		M5 (Pozidriv PZ2)
Tightening torque terminal screws		Nm 2 - 2.4
Thickness of busbar material		mm 0.8 - 2
Admissible ambient temperature range		°C -25 - +40
Climatic proofing		According to IEC/EN 61008



			PDIM
Electrical			
Standards			Conforming with DIN/EN 62020
Rated operational current	I_e	A	40, 100
Response behavior (adjustable)			Non-delayed
Type G			10 ms delayed
Type S			40 ms delayed - selective
Rated operating voltage	U_e	V AC	230/400 50/60 Hz 240/415 50/60 Hz
Rated fault currents	$I_{\Delta n}$	mA	30, 100, 300, 500, 1000
Sensitivity			Alternating and pulsed current
Rated insulation voltage	U_i	V	440
Rated short-circuit strength	I_{nc}	kA	10
Max. admissible back-up fuse			
$I_n = 40 \text{ A}$		A gG/gL	Short-circuit: 63 overload: 40
$I_n = 100 \text{ A}$		A gG/gL	Short-circuit: 100 A Overload: 63 A
Switching contacts			Potential-free 10 A / 230 ~
Response behavior of contacts			1: 30 - 50 % $I_{\Delta n}$ 2: > 50 % $I_{\Delta n}$
Lifespan			
Electrical		Operations	≥ 4000
Mechanical		Operations	≥ 20000
Mechanical			
Standard front dimension		mm	45
Device height		mm	80
Mounting width		mm	70 (4 SU)
Mounting position			Any
Mounting			Quick attachment with two engagement positions for top-hat rail to IEC/EN 60715
Protection type			
Enclosed			IP40
Protection type In moisture-proof enclosure			IP54
Terminals top and bottom			Twin-purpose terminals
Terminal protection			Busbar tag shroud to BGV A3, ÖVE-EN 6
Terminal capacity (1, 2, 3, 4, 5, 6, N, N)			
Solid		mm ²	1.5 - 35
Stranded		mm ²	2 x 16
Terminal cross-section of switching contacts		mm ²	0.25 - 1.5
Thickness of busbar material		mm	0.8 - 2
Admissible ambient temperature range		°C	-25 to +40
Climatic proofing			According to IEC/EN 61008



19/70 Circuit-breakers, fuses

Auxiliary contacts, shunt releases

FAZ-XHIN, FAZ-X...

	FAZ-XHIN11	FAZ-XHINW1	FAZ-XAM002	FAZ-XAA-C	FAZ-XUA	
Electrical						
Rated operating voltage	U_e	V AC	250	250	250	
Contact function			1 N/O + 1 NC	1 C	2 C	
Voltage range		V AC	-	-	12 - 110 110 - 415	
Closing threshold	$x U_n$		-	-	-	
Tripping threshold	$x U_n$		-	-	-	
Rated frequency	f	Hz	50/60	50/60	50/60	
Rated operational current	I_e	A	6	6	4	
Thermal rated operational 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)	U_{imp}	kV	2.5	2.5	2.5	
Rated conditional short-circuit current with 6 A back-up fuse	I_k	kA	1	1	1	
Max. admissible back-up fuse		A gL	6	6	4	
Mechanical						
Standard front dimension		mm	45	45	45	
Device height		mm	80	80	80	
Mounting width		mm	8.8 (0.5 SU)	8.8 (0.5 SU)	8.8 (0.5 SU)	
Mounting			Max. 2 × on switching device	On switching device	IEC/EN 60715 top-hat rail	
Protection type					IEC/EN 60715 top-hat rail	
Enclosed			IP40			
Terminal protection			Busbar tag shroud to BGV A2			
Terminals			Lift terminals	Lift terminals	Lift terminals	
Terminal capacity				Twin-purpose terminals	Twin-purpose terminals	
Solid		mm ²	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5	
Flexible		mm ²	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5	
Tightening torque of terminal screws		Nm	≤ 1.2	≤ 1.2	0.8 - 1.0	
				2.4	0.8	



	AZ-XHI11	AZ-XAA	FI-XHI11 ≤ 100 A	FIPA-XAM011 125 A FI and Type B	
Electrical					
Contact function		1 N/O + 1 NC	-	1 N/O + 1 NC	
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	-	
Rated operational current			24/50	12/100	
AC-11	230 V	I_e	A	6	
AC-13	250 V	I_e	A	6	
	400 V	I_e	A	2	
DC-11	230 V	I_e	A	4	
DC-13	60 V	I_e	A	4	
	110 V	I_e	A	2	
	230 V	I_e	A	0.5	
Rated insulation voltage	U_i	V AC	440	440	
Minimum operating voltage per contact	U_{min}	V DC	-	-	
Rated impulse withstand voltage	U_{imp}	kV	-	-	
Rated conditional short-circuit current with 6 A back-up fuse	I_k	kA	-	-	
Max. admissible back-up fuse		A gL	6	Inherently short-circuit-proof	
Lifespan			6	6	
Mechanical		Operations	> 6000	> 4000	
Inrush current			> 6000	> 6000	
AC		A	-	38	
Duty factor AC		ms	-	2.1	
DC		A	-	34	
Duty factor DC		ms	-	2	
Mechanical					
Standard front dimension		mm	45	45	
Device height		mm	90	90	
Mounting width		mm	8.8 (0.5 SU)	17.5 (1 SU)	
Mounting			Top-hat rail to IEC/EN 60715		
Protection type					
Enclosed			IP40		
Circuit-breaker			IP20		
Terminal capacity					
Solid		mm ²	1 x (1 - 25) 2 x (1 - 4)	1 x (1 - 25) 2 x (1 - 4)	2 x (0.5 - 2.5) 1 x (0.5 - 2.5)
Flexible		mm ²	1 x (1 - 25) 2 x (1 - 4)	1 x (1 - 25) 2 x (1 - 4)	2 x (0.5 - 2.5) 1 x (0.5 - 2.5)
Tightening torque of the terminal screws		Nm	0.8	3	0.8



19/72 Circuit-breakers, fuses
Power meter
KWZ-3PH

	KWZ-3PH	KWZ-3PH-65
Electrical		
Rated operating voltage	U_e	V AC
Voltage range		V AC
Rated operational current	I_e	A
Max. current	I_{max}	A
Rated frequency	f	Hz
Limiting frequency		Hz
Own consumption per phase (current path)		VA
Overload, short-term		$20 \times I_{max} / 0.5 \text{ s}$
Auxiliary voltage		From measurement
Input signal		Sine-shaped
Accuracy class		1
LED signal		1 pulse / 0.1 Wh
Pulse output		Max. 110 V AC/DC, 50 mA
Rated value		Optocoupler
Switching contact (potential-free)		1 pulse / 10 Wh, 100 Wh, 1 kWh, 10 kWh optional 1Imp. / 10 VArh, 100 VArh, 1 kVArh, 10 kVArh
Pulse value (selectable)		1 pulse / 100 Wh, 1000 Wh, 10 kWh, 100 kWh optional 1Imp. / 10 VArh, 100 VArh, 1 kVArh, 10 kVArh
Pulse duration (selectable)	ms	50, 100, 150, 200, 300, 400, 500
Programmable parameters		Network types (single-phase, 3-phase, 3- or 4-conductor), External current and voltage transformers, mean performance, pulse output
Overvoltage category		III
Insulation voltage (phase - phase)	V	450
Rated impulse withstand voltage (1.2/50) μs	kV	5
Test voltage		
Input/pulse output	kV	2.75
All circuits and ground	kV	4
Protection class		II
Mechanical		
Standard front dimension		45
Device height		89
Mounting width		71.2
Weight	g	260
Display		LCD 8 digit
Digit height	mm	6
Maximum display		Adjustable
Resolution		999999.99 kWh
Measurement display		Adjustable
Mounting		10 W
Protection type device front/ terminals		arranged into 6 pages
Terminals top and bottom		arranged into 7 pages
Terminal capacities		Quick attachment for top-hat rail IEC/EN 60715
Current connections		IP52/IP20
Solid	mm ²	Screw terminals
Stranded	mm ²	
Voltage connections		
Solid	mm ²	0.05 - 4
Stranded	mm ²	0.05 - 2.5
Admissible relative humidity		1 - 10
Reference temperature	°C	0.05 - 2.5
Temperature range	°C	1 - 4
Storage and transportation temperature range	°C	0.05 - 2.5
Pollution degree		Also suitable for tropical conditions
		23 ± 2
		-5 - +55
		-25 - +70
		2



	FAZ/FIP-XAWM	FAZ/FIP-XDWM
Electrical		
Operating voltage range		
V AC	220 - 240	-
V DC	-	48
Rated frequency	f	Hz
50/60		
Relay output for alarm, 250 V AC, floating		A
5		
Function		
Function selector		Automatic control Automatic 5 ×, OFF/RESET
Mechanical		
Standard front dimension		mm
45		45
Device height		mm
80		80
Mounting width		mm
70		70
Mounting		Top-hat rail to IEC/EN 60715
Protection type		
Enclosed		IP40
Terminal protection		Busbar tag shroud to BGV A2
Terminals		Lift terminals
Terminal capacity		
Solid	mm²	2 x 1.5 1 x 2.5
Flexible	mm²	2 x 1.5 1 x 2.5
		2 x 1.5 1 x 2.5
		2 x 1.5 1 x 2.5
		FAZ-...-NA FAZ-...-RT
Electrical		
Standards		UL 489, CSA C22.2 No.5, IEC 60947-2
Rated operating voltage		
UL/CSA 0.5 - 25 A	V AC	277/480 Y
UL/CSA 32 - 40 A	V AC	240
UL/CSA (per pole)	V DC	48
IEC	V AC	240/415
Rated frequency	f	Hz
50/60		
Rated breaking capacity		
IEC	kA	15
Characteristic		B, C, D
Lifespan		Operations
Mains voltage connection		> 20000
		Any (top/bottom)
Mechanical		
Standard front dimension		mm
45		
Device height		mm
105		
Mounting width per pole		mm
17.7		
Mounting		Quick attachment with two engagement positions for top-hat rail to IEC/EN 60715
Terminals top and bottom		Twin-purpose terminals
Terminal capacity		
Solid	AWG	18 - 6
Flexible	AWG	18 - 10
Mounting position		Any
Calibration temperature		
UL 489, CSA C22.2 No. 5	°C	40
IEC 60947-2	°C	30



19/74 Circuit-breakers, fuses
Auxiliary contacts for FAZ-NA, FAZ-RT
Z-NHK, Z-IHK-NA, FAZ-XAA-NA...

	Z-NHK	Z-IHK-NA
Electrical		
Standards	IEC/EN 60947-5-1, IEC/EN 62019	IEC/EN 60947-5-1, IEC/EN 62019
Rated voltage	V AC	230
Contact function		2 C
Rated frequency	f	Hz
Rated operational current	I _e	A
Thermal rated operational current	I _{th}	A
Rated operational current		2
AC-13	I _e	A
AC-15	I _e	A
DC-12	I _e	A
Rated insulation voltage	U _i	V AC
Minimum operating voltage per contact	U _{min}	V DC
Minimum operating current	I _{min}	mA
Rated impulse withstand voltage (1.2/ 50 µ)	U _{imp}	kV
Rated conditional short-circuit current with 6 A back-up fuse	I _k	kA
Max. admissible back-up fuse	A gL	6
Mechanical		
Standard front dimension	mm	45
Device height	mm	80
Mounting width	mm	8.8 (0.5 SU)
Mounting		For fitting to left side of FAZ-...-NA, FAZ-...-RT, FAZ-XAA-NA...
Protection type		
Enclosed		IP40
Terminal protection		Busbar tag shroud to BGV A3
Terminals		Lift terminals
Terminal capacity		
	AWG	20 - 14
	mm ²	0.5 - 2.5
Terminal screws		M3 (Pozidriv Z0)
Tightening torque of the terminal screws	Nm	≤ 1.2

	FAZ-XAA-NA12-110VAC	FAZ-XAA-NA110-415VAC
Electrical		
Voltage range	V AC	12 - 110
	V DC	12 - 60
Rated frequency	f	Hz
		50/60
Mechanical		
Standard front dimension	mm	45
Device height	mm	105
Mounting width	mm	17.5
Mounting		Quick attachment with two engagement positions for top-hat rail to EN 50022
Protection type		
Enclosed		IP40
Terminal protection		Busbar tag shroud to BGV A3
Terminals top and bottom		Twin-purpose terminals
Terminal capacity		
Solid	AWG	18 - 10
Two-wire	AWG	18 - 10



	Z-NH-...	Z-NH-1/	Z-NH-2/	Z-NH-2/
Electrical				
Standards	IEC 60269, VDE 0636, SEV 1086			
Nominal voltage				
AC	V AC	500	500	500
DC	V DC	230	440	440
Rated operational current	A	10 - 160	50 - 250	100 - 400
Rated frequency	f	45 - 62	45 - 62	45 - 62
Rated breaking capacity				
AC	kA	120	120	120
DC	kA	25	25	25
Max. heat dissipation				
I _n = 10 A	W	1.1	-	-
I _n = 16 A	W	1.6	-	-
I _n = 20 A	W	1.7	-	-
I _n = 25 A	W	1.9	-	-
I _n = 35 A	W	3.0	-	-
I _n = 40 A	W	3.5	-	-
I _n = 50 A	W	4.6	5.4	-
I _n = 63 A	W	5.4	6.3	-
I _n = 80 A	W	5.1	7.2	-
I _n = 100 A	W	6.9	8.6	8.8
I _n = 125 A	W	10.3	11.9	12.1
I _n = 160 A	W	11.0	13.9	14.0
I _n = 200 A	W	-	15.2	15.2
I _n = 250 A	W	-	21.8	21.8
I _n = 315 A	W	-	-	23.7
I _n = 400 A	W	-	-	30.5
I _n = 500 A	W	-	-	30.5
I _n = 630 A	W	-	-	42.0
				47.0

	Z-SLS/B	Z-SLS/B24		
Electrical				
Rated operating voltage				
Rated operating voltage	U _e	V AC	60 - 400	24 - 60
		V DC	60 - 220	24 - 60
Utilization category			gG (gL)	gG (gL)
Test voltage	kV	5		5
Mechanical				
Size		D01: 1, 2, 4, 6, 10, 13, 16 A D02: 20, 25, 32, 35, 40, 50, 63 A		

	Z-DO/SE		
Electrical			
Standards	DIN VDE 0636, DIN 49522		
Utilization category	gG (gL)		
Rated voltage			
AC	U _n	V	400
DC	U _n	V	220
Rated frequency	f	Hz	45 - 65
Rated insulation voltage	U _i	V	2500
Rated short-circuit switching capacity			
AC		kA	50
DC		kA	8



19/76 Circuit-breakers, fuses

Fuse material

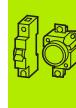
D01-S, D02-S..., Z-DII-/SE

		D01-S0/	D02-S0/
Electrical			
Number of poles		1P 3P	1P 3P
Rated operating voltage	V AC	400	400
	V DC	250	250
Rated conditional short-circuit current tested with links	I _e	kA	50 (AC) / 8 (DC)
Rated frequency	f	Hz	-
Rated operational current	I _e	A	16
Conventional thermal current with fuse links	I _{th}	A	-
Rated operating mode			-
Overshoot category			-
Utilization category			-
Rated impulse withstand voltage	U _{imp}	kV	-
Current heat loss per contact at I _e		W	-
Heat dissipation			
Heat dissipation per contact with fuse link at I _e		W	-
Max. permissible heat dissipation of the fuse links		W	-
Utilization category		gG (gL)	gG (gL)
Mechanical			
Standard front dimension		mm	45
Device height		mm	68
Mounting width		mm	27 (per pole)
Weight		g	1P 76 3P 230
Electrical thread			E14
Mounting			Quick attachment for top-hat rail IEC/EN 60715
Protection type			
Enclosed			-
Terminals			Double function terminals
Terminal capacity			
Solid		mm ²	1.5 - 35
Temperature range		°C	-
Terminal screw tightening torque		Nm	2.5 - 3
Pollution degree			-
Track resistance			CTI 200
			Z-DII./SE

Electrical			Z-DII./SE
Standards			DIN EN 60269-1 (VDE 0636 part 10), DIN EN 60269-3 (VDE 0636 part 30), DIN VDE 0636-301, CEE 16, IEC/EN 60269-1, IEC/EN 60269-3
Utilization category			gG (gL), DZ
Rated voltage			
AC	U _n	V	500
DC	U _n	V	400
Rated frequency	f	Hz	45 - 65
Insulation class			C-VDE0110
Rated short-circuit breaking capacity at 1.1 x U _n			
AC		kA	50/cosφ = 0.2
DC		kA	8/τ = 15 ms



	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 operating voltage	V DC	1P up to 110V / 2P up to 220V
Rated operating voltage	V AC	400
Rated operational current	I _e	A
Rated uninterrupted current	I _u	A
Rated short-circuit making capacity		50 kArms
Normally open contact		-
Switching category		AC 22 B, DC 21 B
Overvoltage category		IV
Rated impulse withstand voltage	U _{imp}	kV
Current heat loss per current path at I _e		W
Heat dissipation		0.5
Heat dissipation per contact with fuse link at I _e	W	7.5
Relay section electrical		
Operating voltage range	V AC	-
Operational voltage tolerance		24 - 240
Power consumption	VA	±10%
Frequency	Hz	5
Function display		50-60
Duty factor	%	Mains: 1 LED
Response delay	ms	Fault: 1 LED
Recovery time	t _W	100
Relay contacts		Approx. 100
Overvoltage category		Approx. 100
Auxiliary contacts		2 changeover contacts, 5A/250V
Rated impulse withstand voltage	U _{imp}	III
	kV	
	-	4
Mechanical		
Standard front dimension		mm
	45	45
Device height		mm
	86	86
Mounting width		mm
	27/per pole (1.5 SU)	27/per pole (1.5SU) + 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
Protection type in fitted state		IP20
Terminals		IP20
Terminal capacity		Lift terminals
Solid	mm ²	Lift terminals
Temperature range	°C	1.5 - 35
Flammability classification to EN 60730		-25 ... +60
Terminal screw tightening torque	Nm	V0, glow-wire test 960°C
Pollution degree		Max. 4.5
3		Max. 4.5
Track resistance		3
	CTI 600	CTI 600
Relay section mechanical		
Terminals		Lift terminals
Terminal capacity		Lift terminals
Solid	mm ²	-
Flexible	mm ²	0.14 - 4
Terminal screw tightening torque	Nm	0.14 - 2.5
		0.5 - 0.7



19/78 Circuit-breakers, fuses
 Fuse switch-disconnectors, fuse material
VLC, Z-DO..., Z-DO1, Z-DO2, 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	V AC	690	
Rated operational current	I _e	A 50	
Rated conditional short-circuit current	I _e	kA 100	
Rated frequency	f	Hz 50	
Utilization category		AC 22 B	
Rated impulse withstand voltage	U _{imp}	kV 8	
Max. permissible heat dissipation of the fuse		W gG: 5, aM: 3	
Mechanical			
Standard front dimension		mm 45	
Device height		mm 94	
Mounting width		mm 27/per pole	
Weight	g	1P 100 1P+N 222 2P 201 3P 308 3P+N 437	
Mounting		Quick attachment for top-hat rail IEC/EN 60715	
Protection type	Enclosed	IP20	
Terminals		Lift terminals	
Terminal capacity	Solid	mm ² 1.5-10	
Temperature range		°C -25 ... +60	
Terminal screw tightening torque	Tightening torque	Nm Max. 2	
Pollution degree		1	
Track resistance		CTI 400	
	Z-D01/SE	Z-D02/SE	
Electrical			
Rated operating voltage	V AC	400	
	V DC	220	
Utilization category		gG (gL)	
Rated frequency	f	Hz 45-65	
Rated insulation voltage	U _i	V 2500	
Rated short-circuit switching capacity		50 kA (AC) 8 kA (DC)	
	Z-SLS/B	Z-SLS/B24	Z-SLS/TR-SET
Electrical			
Rated operating voltage	V DC	-	
Rated operating voltage	V AC	60 - 400	
Utilization category		gG (gL)	
Test voltage		kV 5	
Rated uninterrupted current	I _u	A -	



			C10-FD/...
Electrical			
Standards	IEC/EN 60947-1 Ed. 4.0, EN 60947-1:1999+A1:2000+A2:2001 IEC/EN 60947-3 Ed. 2.1, EN 60947-3:1999+A1:2001		
No. of poles	1, 2		
Rated voltage	U_e	V DC	1000
Rated operational current	I_e	A	20
Rated conditional short-circuit current		kA	10
Utilization category	DC 20 B		
Rated insulation voltage	U_i	V DC	1000
Overvoltage category			II
Rated impulse withstand voltage	U_{imp}	kV	4
Current heat loss per contact without fuse		W	0.9
Max. heat dissipation of fuse		W	3
Mechanical			
Standard front dimension		mm	45
Device height		mm	83.3
Mounting width		mm	17.5/pole
Weight			
1P		g	58
2P		g	70
Mounting	Quick attachment for top-hat rail IEC/EN 60715		
Protection type	IP20		
Terminals top and bottom	Lift terminals		
Terminal cross-section	0.5 - 10 mm ² AWG 20 - 8		
Tightening torque of the terminal screws		Nm	1.5
Ambient temperature range		°C	-25 - +40
Flammability classification	Glow wire 960 °C		
Pollution degree	2		
Track resistance	CTI 450		

		Z-C10/SE 10 x 38	Z-C12/SE 14 x 51	Z-C22/SE 22 x 58
Electrical				
Standards	IEC 60269-1 and IEC 60269-2-1			
Utilization category	gG (gL)	gG (gL)	gG (gL)	
Utilization category	1 - 25 A/500 32 A/400	2 - 32 A/690 40 - 50 A/500	16 - 40 A/690 50 - 100 A/500	
Rated voltage	U_n	V AC	aM	aM
Rated frequency	f	Hz	1 - 16 A/500 20 - 32 A/400	2 - 25 A/690 32 - 50 A/500
Rated short-circuit breaking capacity		kA	50	16 - 50 A/690 80 - 100 A/500
$\tau = L/R$		ms	100	50
$\tau = L/R$			100	100

		Z-C10/SE-.../PV 10 x 38
Electrical		
Standards	IEC 60269-1 and IEC 60269-4	
Rated voltage	U_n	V DC
Rated short-circuit breaking capacity		kA
$\tau = L/R$		ms
$\tau = L/R$		2



19/80 Circuit-breakers, fuses
LV h.b.c. fuse switch-disconnectors
GST

			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, cyclic, to IEC 60068-2-30			
Ambient temperature	°C		-25 ... +55	-25 ... +55	-25 ... +55	-25 ... +55
Installation altitude	m		max. 2000	max. 2000	max. 2000	max. 2000
Mounting position			Vertical, horizontal			
Overtoltage category/pollution degree			III/3	III/3	III/3	III/3
Busbar tag shroud at the front						
Operational status			IP20	IP20	IP20	IP20
Front cover open			IP10	IP10	IP10	IP10
Direction of incoming supply		kg	Any			
Weight	kg		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 operating voltage	U _e	V AC	500 690	500 690	500 690	500 690
Rated operating voltage	U _e	V DC	220 440	220 440	220 440	220 440
Rated operational current	I _e	A	160 100	250 200	400 315	630 500
Rated frequency		Hz	40 - 60	40 - 60	40 - 60	40 - 60
Rated conditional short-circuit current AC		kA _{rms}	50	50	50	50
Rated conditional short-circuit current, DC		kA _{rms}	25	25	25	25
Utilization category AC-22B						
Rated making capacity		A	480 300	750 600	1200 945	1890 1500
Rated breaking capacity		A	480 300	750 600	1200 945	1890 1500
Utilization category DC-21B						
Rated making capacity		A	150	300	475	750
Rated breaking capacity		A	150	300	475	750
Lifespan, electrical	Operations		300	200	200	200
Lifespan, mechanical	Operations		1700	1400	800	800
Heat dissipation at I _{th} AC, without NH-SE		W	6.9 2.7	12.9 8.3	27 16.7	52 32.8
Heat dissipation at I _{th} DC, without NH-SE		W	4.6 1.8	8.6 5.5	18 11.2	34.7 21.8
Rated insulation voltage	U _i	V AC	750	750	750	750
Max. fuse link						
Size			NH00	NH1	NH2	NH3
Max. rated operational current, gL/gG		A	160	250	400	630
Max. admissible heat dissipation, NH-SE	P _v	W	12	23	34	48
Terminal capacity						
Box terminal						
Stranded		mm ²	1.5 - 70	-	-	-
Copper strip	Number of layers x width x thickness	mm	6 x 9 x 0.8	-	-	-
Tightening torque		Nm	2.6	-	-	-
Flange connection						
Bolt diameter			-	M10	M10	M10
Cable lug		mm	-	1 x 25 - 150	1 x 25 - 240	1 x 25 - 300
Flat rail		mm	-	30 x 10	30 x 10	40 x 10
Tightening torque		Nm	-	30 - 35	30 - 35	30 - 35
Box terminal						
Stranded copper		mm ²	1.5 - 70	25 - 150	25 - 240	25 - 300
Copper strip	Number of layers x width x thickness	mm	-	6 x 16 x 0.8	10 x 16 x 0.8	11 x 21 x 1
Tightening torque		Nm	-	9.5	23	23
Clamp-type cable terminal						
Stranded aluminum/copper		mm ²	-	70 - 150	120 - 240	120 - 300
Tightening torque		Nm	-	4.5	11	11
Double clamp-type terminal						
Stranded aluminum/copper		mm ²	-	2 x (70 - 95)	2 x (120 - 150)	2 x (120 - 240)
Tightening torque		Nm	-	4.5	11	11

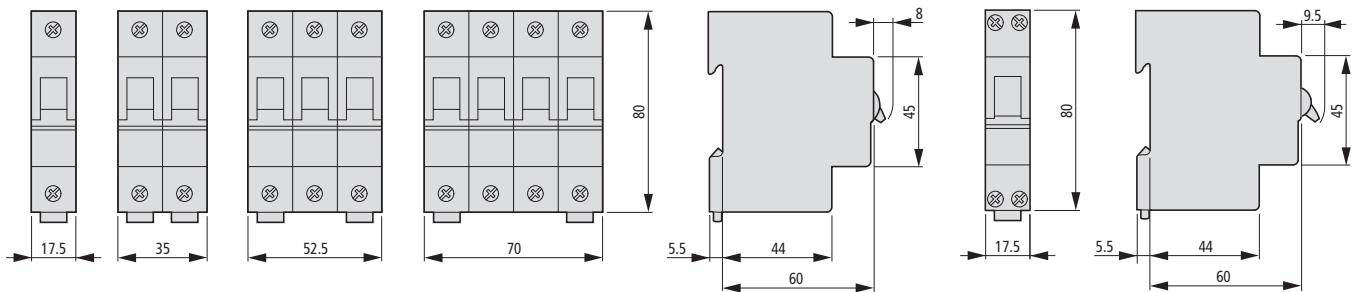


	GS00-160	GSU1	GSU2	GSU3
General				
Standards		IEC/EN 60 269-2-1; VDE0636-201		
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30		
Ambient temperature	°C	-25 ... +55	-25 ... +55	-25 ... +55
Installation altitude	m	max. 2000	max. 2000	max. 2000
Mounting position		Vertical, horizontal	Vertical, horizontal	Vertical, horizontal
Overvoltage category/degree of pollution		III/3	III/3	III/3
Busbar tag shroud at the front				
Operational status		IP00	IP00	IP00
Direction of incoming supply		Any	Any	Any
Weight	kg	0.4	1.7	2.1
Contacts				
Rated operating voltage	U _e	V AC	690	690
Rated operating voltage	U _e	V DC	440	440
Rated operational current	I _e	A	160	250
Rated frequency		Hz	40 - 60	40 - 60
Heat dissipation at I _{th} AC, without NH-SE		W	6.9	12.9
Heat dissipation at I _{th} DC, without NH-SE		W	4.6	8.6
Rated insulation voltage	U _i	V AC	750	750
Max. fuse link				
Size		NH00	NH1	NH2
Max. rated operational current, gL/gG		A	160	250
Max. admissible heat dissipation NH-SE	P _v	W	12	23
Max. admissible heat dissipation NH-SE				34
Max. admissible heat dissipation NH-SE				48
Terminal capacity				
Box terminal				
Stranded		mm ²	-	-
Copper strip	Number of layers x width x thickness	mm	-	-
Tightening torque		Nm	-	-
Flange connection				
Bolt diameter			-	M10
Cable lug		mm	-	1 x 25 - 150
Flat rail		mm	-	30 x 10
Tightening torque		Nm	-	30 - 35
Box terminal				
Stranded copper		mm ²	1.5 - 70	25 - 150
Copper strip	Number of layers x width x thickness	mm	6 x 9 x 0.8	6 x 16 x 0.8
Tightening torque		Nm	2.6	9.5
Clamp-type cable terminal				25 - 240
Stranded aluminum/copper		mm ²	-	10 x 16 x 0.8
Tightening torque		Nm	-	11 x 21 x 1
Double clamp-type terminal				25 - 300
Stranded aluminum/copper		mm ²	-	11
Tightening torque		Nm	-	11
Double clamp-type terminal				120 - 240
Stranded aluminum/copper		mm ²	-	2 x 120 - 150
Tightening torque		Nm	-	2 x 120 - 240
Double clamp-type terminal				11

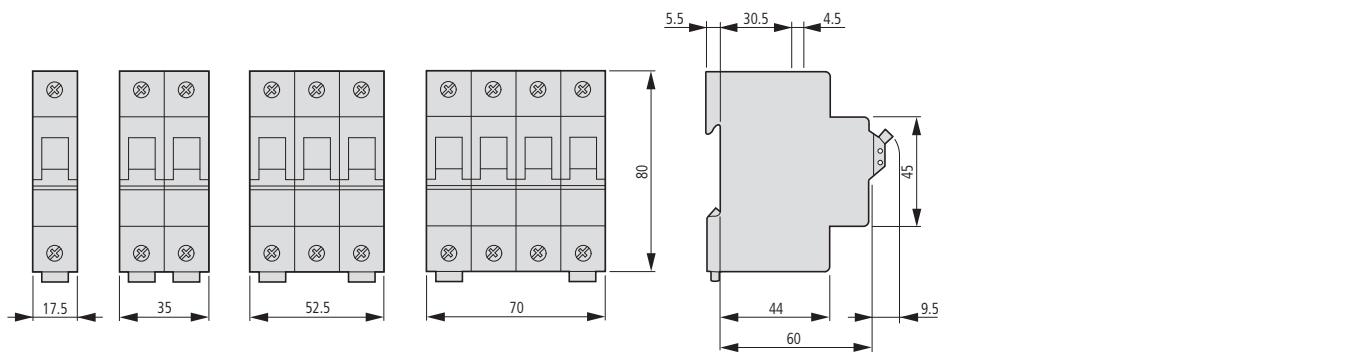


Dimensions**Miniature circuit-breakers (MCB)**

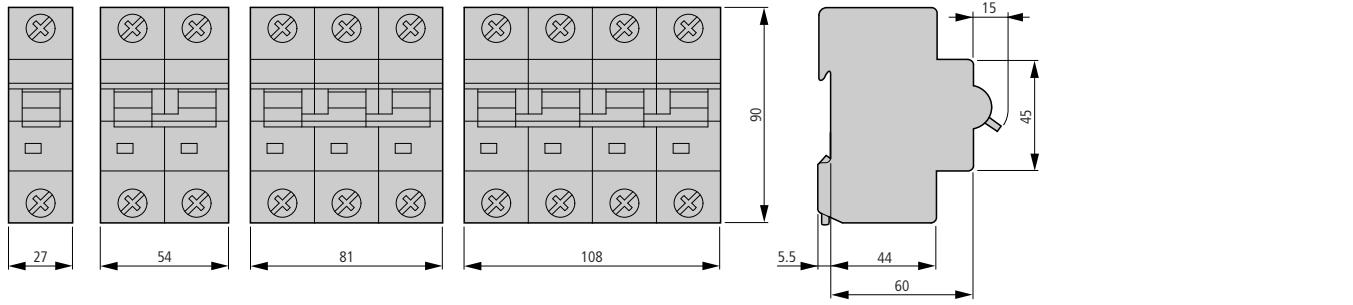
FAZ...



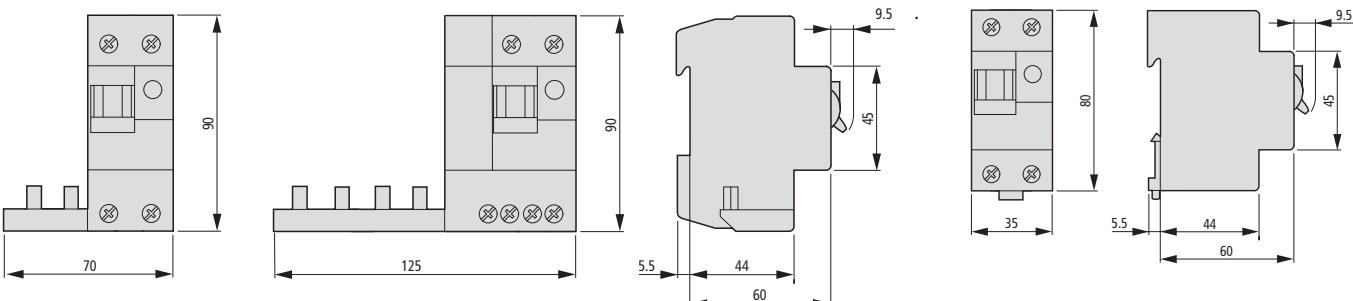
FAZT



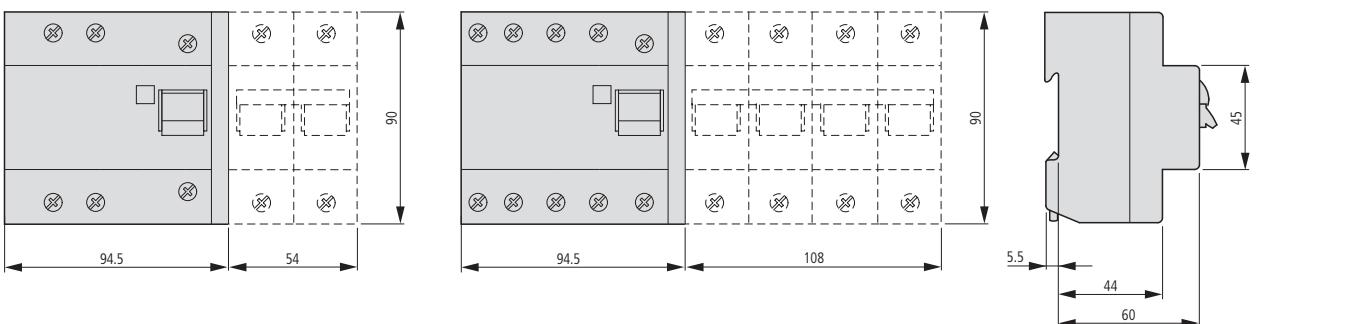
AZ...

**Residual-current protective modules**

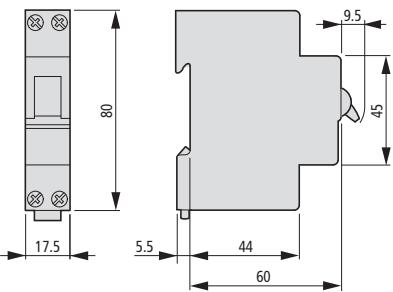
FIM...

**Residual-current protective modules**

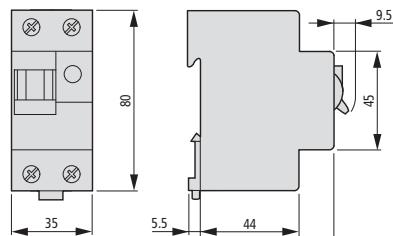
AZFIM...



FAZ-PN...

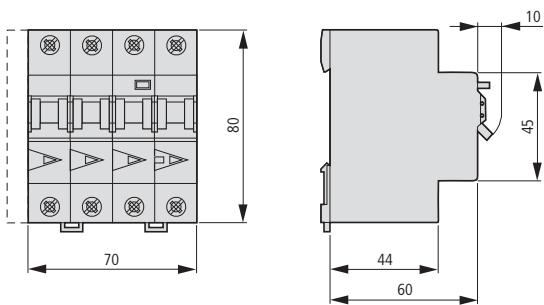
**Combination switches**

PKNM...



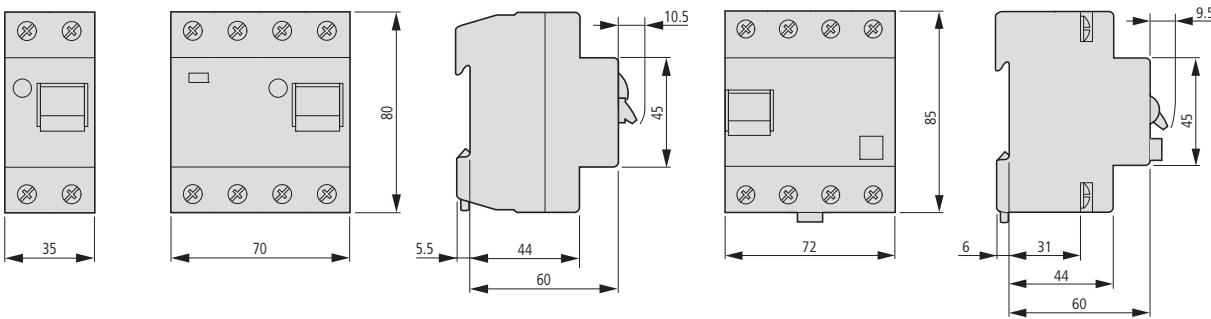
Combination FI/LS switches

mRB6..., mRB4...



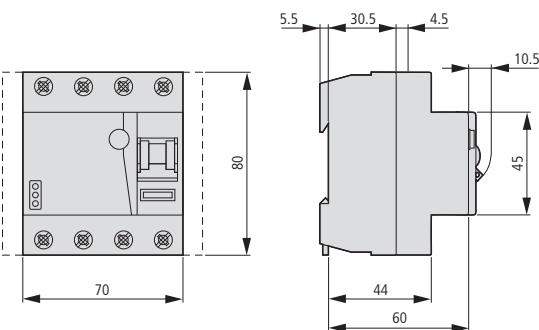
Residual-current devices

FI...



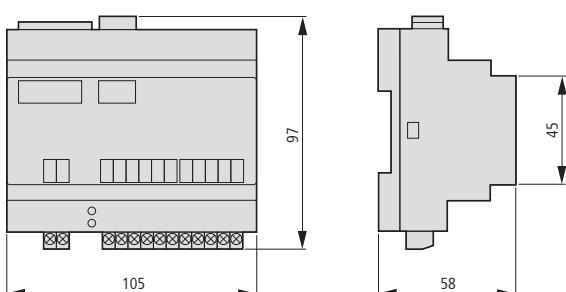
Residual-current devices

dRCM...



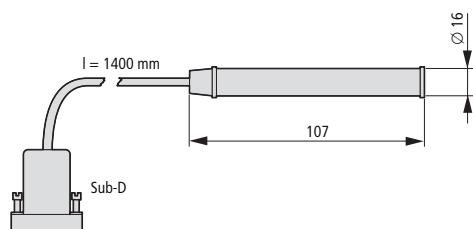
Remote monitoring unit

Z-CC/2CO



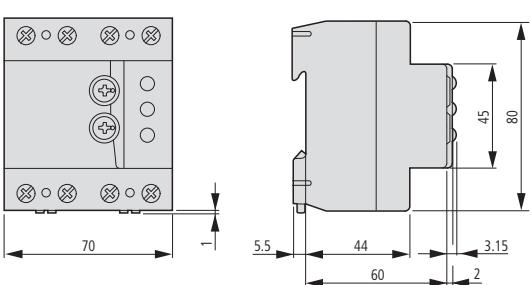
Temperature sensor

Z-CC/2CO-SE



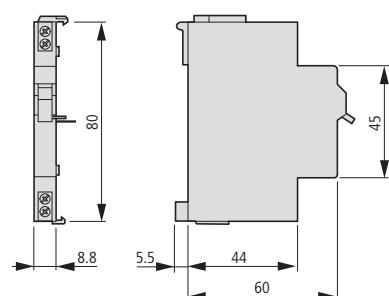
Leakage current meter

PDIM

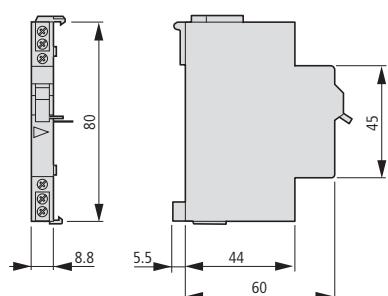


Auxiliary contacts

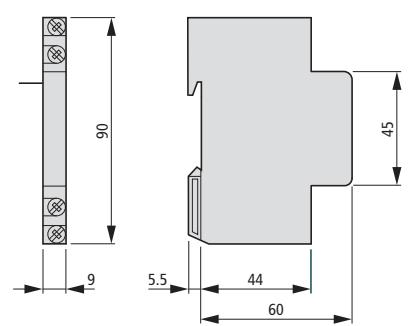
FAZ-XHIN11



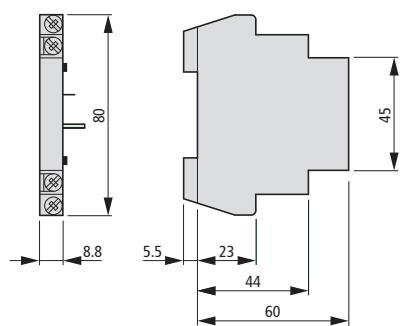
FAZ-XAM002



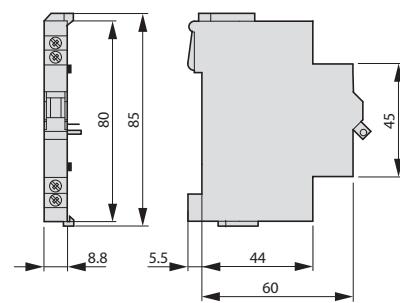
AZ-XHI11



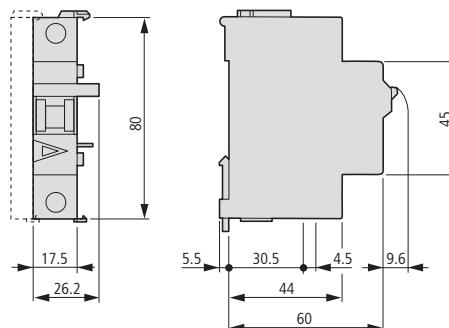
FIP-XHI11



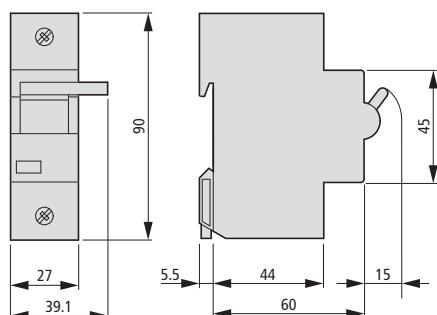
FIPA-XAM011

**Shunt release**

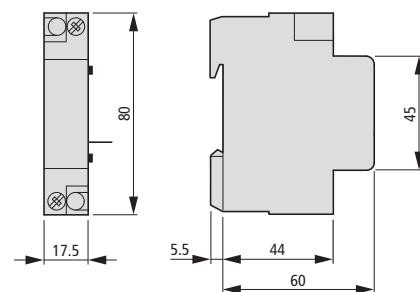
FAZ-XAA-C...

**Shunt release**

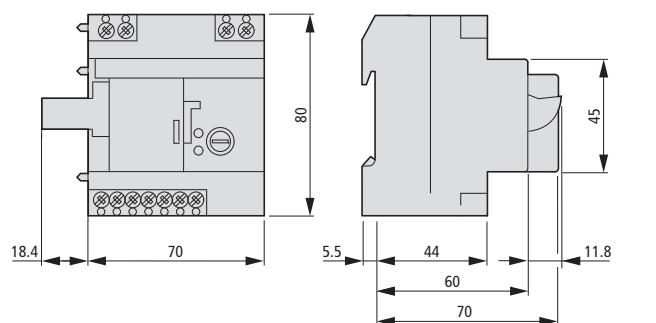
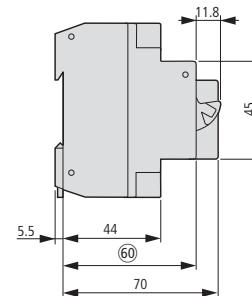
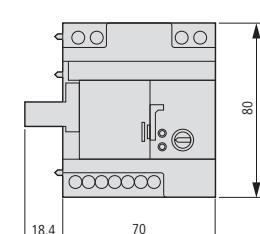
AZ-XAA...

**Under voltage release**

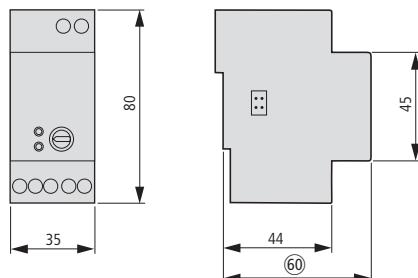
FAZ-XUA...

**Remote switching modules**

FAZ/FIP-...

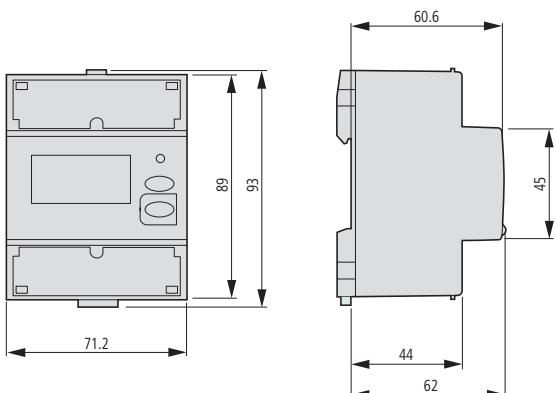
Z-FW-LP
Z-FW-LPD

Z-FW-M0



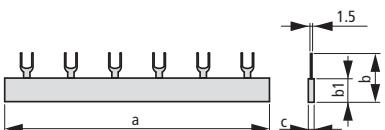
Power meter

KWZ-3PH...



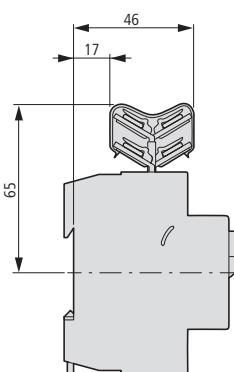
Euro-Vario busbars

EVG-10(16)/...



Connecting bracket

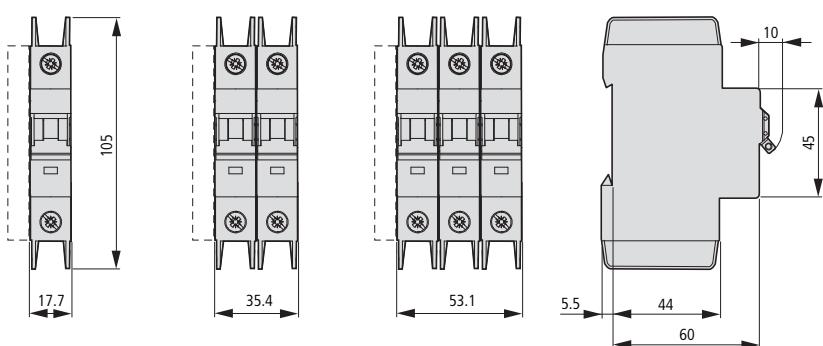
ZV-...-80A...



Part no.	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

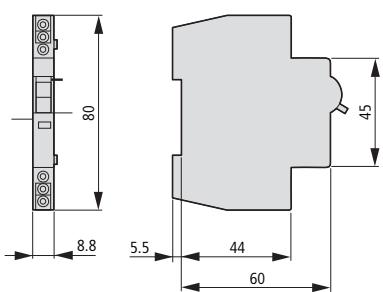
Miniature circuit-breakers (MCB)

FAZ-...-NA, FAZ-...-RT

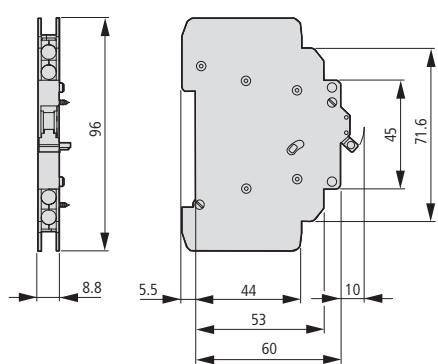


Tripping signal contact

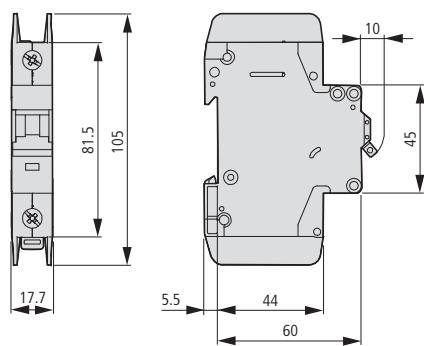
Z-NHK

**Auxiliary contacts**

Z-IHK-NA

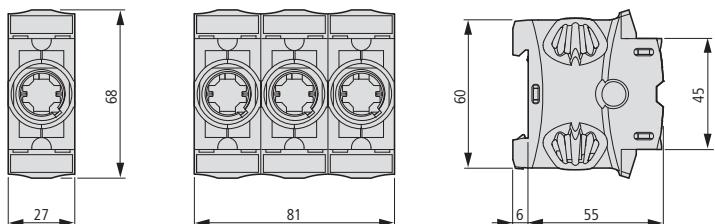
**Shunt release**

FAZ-XAA-NA...

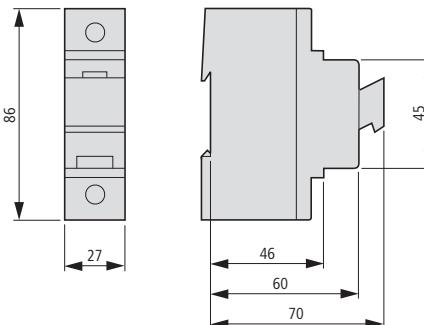
**Fuse bases**

D01-S0/...

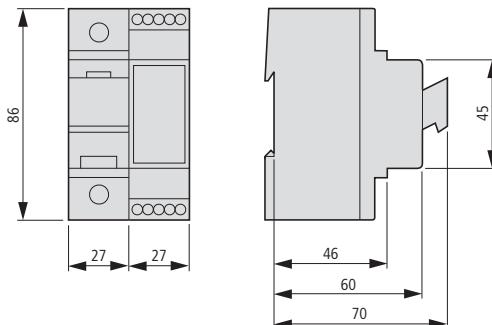
D02-S0/...

**Fuse switch-disconnectors**

Z-SLS/NEOZ/...

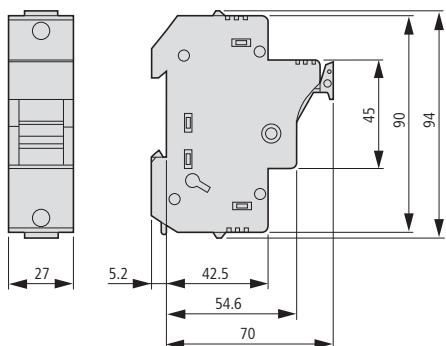
**With fuse monitoring, empty**

Z-SLK/NEOZ/...

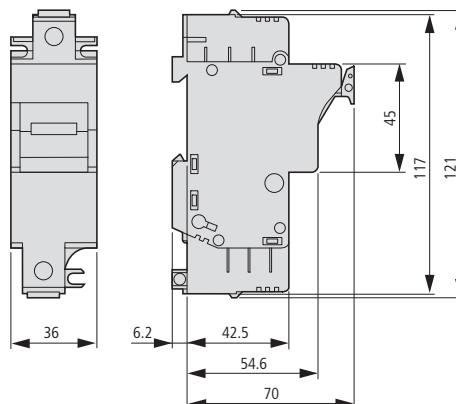


Fuse switch-disconnectors, empty

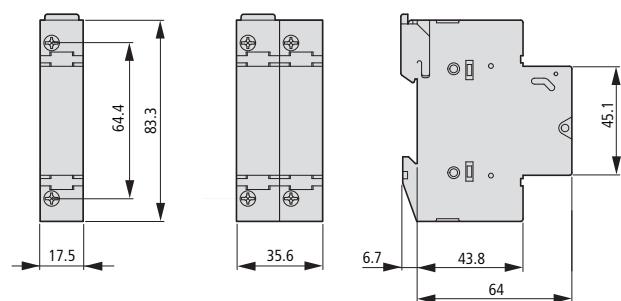
VLC14...



VLC22...

**Fuse switch-disconnectors**

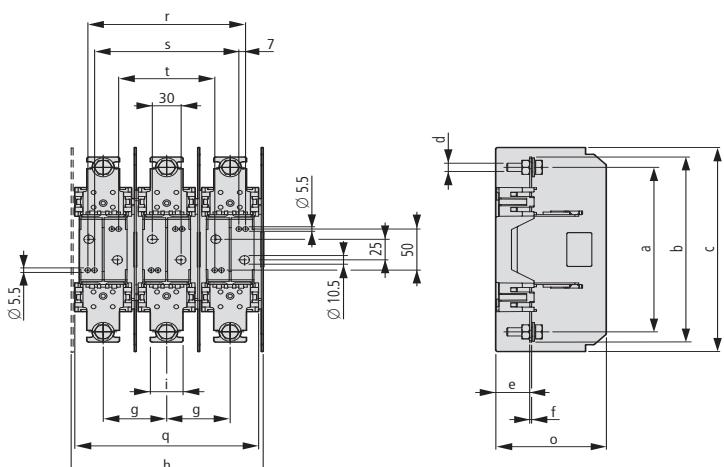
C10-FD/20/...

**LV h.b.c. fuse bases**

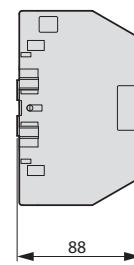
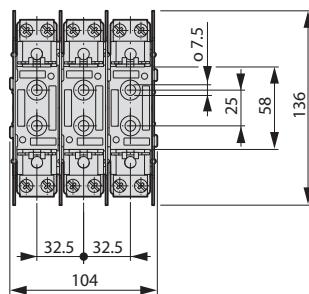
GSU1

GSU2

GSU3



GS00-160

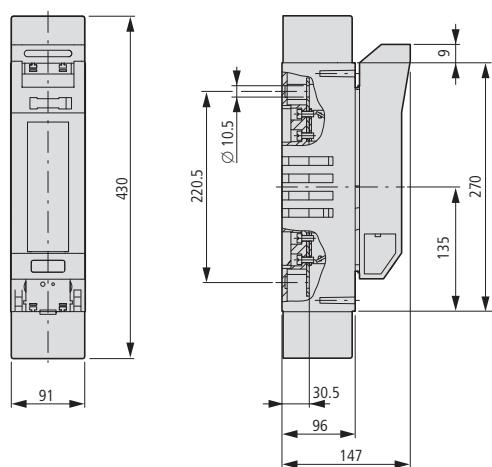


Part no.	a	b	c	d	e	f	g	h	i	o	q	r	s	t
GSU1	175	200	248	M10	35	2	66	200	34	107	191	164	150	100
GSU2	200	225	248	M10	35	2	66	200	34	115	191	164	150	100
GSU3	210	250	273	M10	35	3	84	254	40	132.5	245	200	186	136



LV h.b.c. fuse switch-disconnectors**1 pole**

GSTA00-160-1P

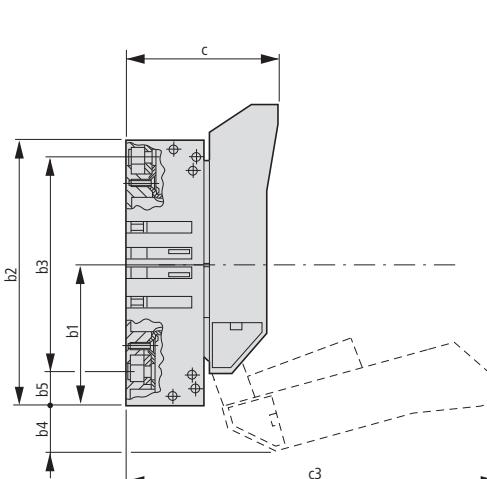
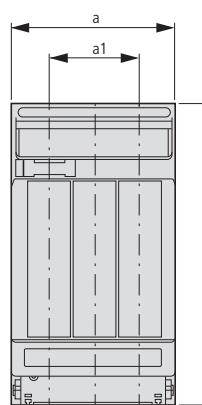
**3 pole**

GSTA00-160

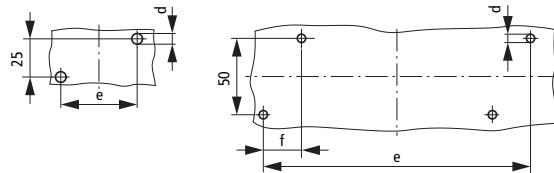
GSTA1

GSTA2

GSTA3



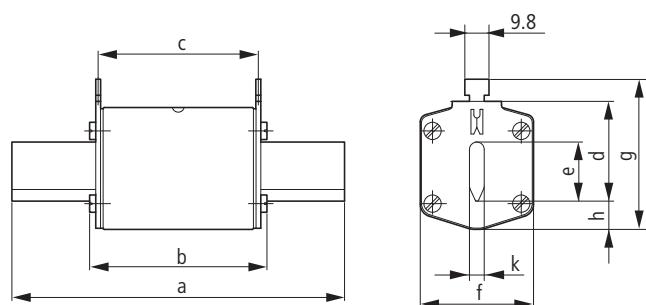
Part no.	a	a1	b	b1	b2	b3	b4	b5	c	c3	d	e	f
GSTA00-160-1P	49	-	169	79	149	120	-	-	86.5	-	7	-	-
GSTA00-160	106	66	169	79	149	120	25	26	86.5	197	7	50	-
GSTA1	182	116	250	115	230	184	30	23	111	294	5.5	150	-
GSTA2	208	132	275	128	256	217	30	19.5	125	330.5	5.5	175	25
GSTA3	254	164	283	135	270	238	30	16	142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

LV h.b.c. fuse switch-disconnectors, drilling dimensionsGSTA00-160
GSTA1GSTA2
GSTA3

Part no.	a	a1	b	b1	b2	b3	b4	b5	c	c3	d	e	f
GSTA00-160-1P	49	-	169	79	149	120	25	-	86.5	197	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

LV h.b.c. fuse links

Z-NH...



Part no.	a	b	c	d	e	f	g	h	k
Z-NH-00/	Up to 100 A	79	53	47	35	15	21	52	7.5
	125-160 A	79	53	47	35	15	28	56	12
Z-NH-1/	Up to 160 A	135	68	65	40	15	28	61	12
	200-250 A	135	72	65	40	20	46	65	14
Z-NH-2/	to 250 A	150	72	65	48	20	46	73	14
	315-400 A	150	72	65	48	26	54	73	14
Z-NH-3/	to 400 A	150	72	65	60	26	54	84	14
	500-630 A	150	72	65	60	33	65	84	6



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