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

System overview

Ordering

Engineering

Technical data

Dimensions

Fuses

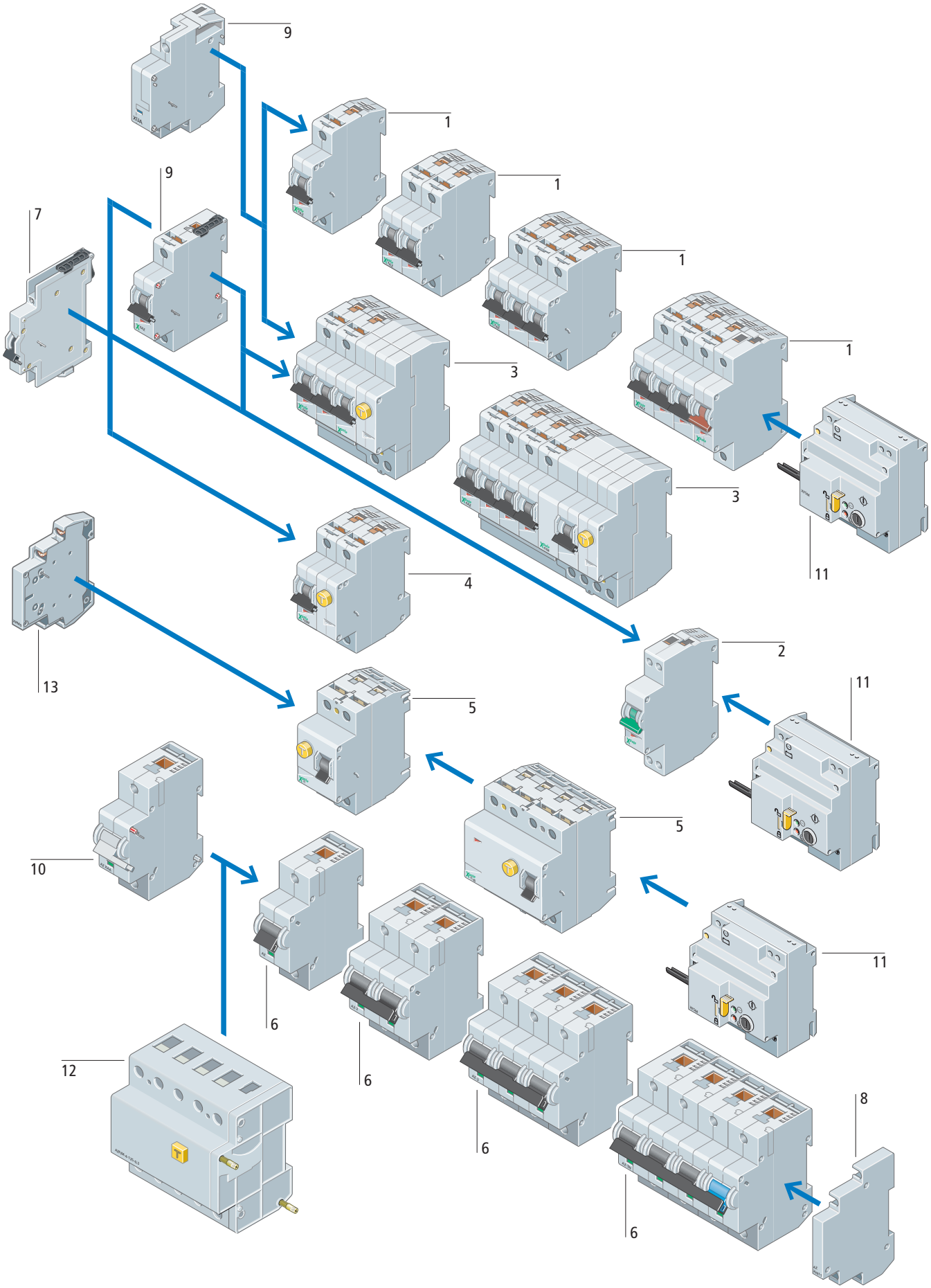
Ordering

Engineering

Technical data

Dimensions

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
→ Page 19/4

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
→ Page 19/10

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
→ Page 19/12

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
→ Page 19/16

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
→ Page 19/16

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
→ Page 19/17

Residual-current circuit-breaker (RCCB) 5
AC current sensitive
2 pole, 16 – 80 A
4 pole, 25 – 80 A
Pulsed current sensitive
2 pole, 16 – 40 A
4 pole, 25 – 125 A
AC/DC sensitive
4 pole, 40 – 125 A
Rated fault current
30 mA, 100 mA, 300 mA, 500 mA
4 pole, selective, 63 – 80 A
Rated fault current
100 mA, 300 mA
4 pole suitable for frequency inverters 40, 63 A, 100 mA, 300 mA
→ Page 19/13

AZ miniature circuit-breakers 6
Characteristic/rated operational current ranges C/20-125 A; D/50-100 A
Switching capacity: 15 – 25 kA to IEC/EN 60947-2, 1-, 2-, 3-, 3N-, 4 pole
→ Page 19/14

Add-on functions

FAZ auxiliary contact 7
Standard auxiliary contact
Trip-indicating auxiliary contacts
Auxiliary contacts
→ Page 19/24

AZ auxiliary contact 8
Standard auxiliary contacts
→ Page 19/24

FAZ shunt releases 9
Undervoltage release
Shunt releases
Can be fitted to FAZ or FAZ-FIM
→ Page 19/24

AZ shunt releases 10
Shunt releases
→ Page 19/24

FI auxiliary contact 13
Auxiliary contacts
→ Page 19/24

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
→ Page 19/22

Ordering

	Rated operational current I_n A	**1 pole** **Part no.** Article no.	**Price** See price list	Std. pack	**2 pole** With 2 protected poles **Part no.** Article no.	**Price** See price list	Std. pack	**3 pole** With 3 protected poles **Part no.** Article no.	**Price** See price list	Std. pack
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		12 off						
	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 With 4 protected poles **Part no.** Article no.	**Price** See price list	Std. pack	**2 pole** With 1 protected pole, N switching with pole **Part no.** Article no.	**Price** See price list	Std. pack	**4 pole** With 3 protected poles, N switching with poles **Part no.** Article no.	**Price** See price list	Std. pack
	FAZ-B6/4 279029		1 off	**FAZ-B6/1N** 278642		1 off	**FAZ-B6/3N** 278943		1 off
	FAZ-B8/4 279030			**FAZ-B8/1N** 278643			**FAZ-B8/3N** 278944		
	FAZ-B10/4 279031			**FAZ-B10/1N** 278644			**FAZ-B10/3N** 278945		
	FAZ-B12/4 279032			**FAZ-B12/1N** 278645			**FAZ-B12/3N** 278946		
	FAZ-B13/4 279033			**FAZ-B13/1N** 278646			**FAZ-B13/3N** 278947		
	FAZ-B15/4 279034			**FAZ-B15/1N** 278647			**FAZ-B15/3N** 278948		
	FAZ-B16/4 279035			**FAZ-B16/1N** 278648			**FAZ-B16/3N** 278949		
	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-B32/4 279038			**FAZ-B32/1N** 278651			**FAZ-B32/3N** 278952		
	FAZ-B40/4 279039			**FAZ-B40/1N** 278652			**FAZ-B40/3N** 278953		
	FAZ-B50/4 279040			**FAZ-B50/1N** 278653			**FAZ-B50/3N** 278954		
	FAZ-B63/4 279041			**FAZ-B63/1N** 278654			**FAZ-B63/3N** 278955		
	FAZ-C0.5/4 279044		1 off	**FAZ-C0.5/1N** 278657		1 off	**FAZ-C0.5/3N** 278958		1 off
	FAZ-C1/4 279046			**FAZ-C1/1N** 278659			**FAZ-C1/3N** 278960		
	FAZ-C1.6/4 279048			**FAZ-C1.6/1N** 278661			**FAZ-C1.6/3N** 278962		
	FAZ-C2/4 279049			**FAZ-C2/1N** 278662			**FAZ-C2/3N** 278963		
	FAZ-C3/4 279051			**FAZ-C3/1N** 278664			**FAZ-C3/3N** 278965		
	FAZ-C4/4 279053			**FAZ-C4/1N** 278666			**FAZ-C4/3N** 278967		
	FAZ-C6/4 279055			**FAZ-C6/1N** 278668			**FAZ-C6/3N** 278969		
	FAZ-C8/4 279056			**FAZ-C8/1N** 278669			**FAZ-C8/3N** 278970		
	FAZ-C10/4 279057			**FAZ-C10/1N** 278670			**FAZ-C10/3N** 278971		
	FAZ-C13/4 279059			**FAZ-C13/1N** 278672			**FAZ-C13/3N** 278973		
	FAZ-C16/4 279061			**FAZ-C16/1N** 278674			**FAZ-C16/3N** 278975		
	FAZ-C20/4 279062			**FAZ-C20/1N** 278675			**FAZ-C20/3N** 278976		
	FAZ-C25/4 279063			**FAZ-C25/1N** 278676			**FAZ-C25/3N** 278977		
	FAZ-C32/4 279064			**FAZ-C32/1N** 278677			**FAZ-C32/3N** 278978		
	FAZ-C40/4 279065			**FAZ-C40/1N** 278678			**FAZ-C40/3N** 278979		
	FAZ-C50/4 279066			**FAZ-C50/1N** 278679			**FAZ-C50/3N** 278980		
	FAZ-C63/4 279067			**FAZ-C63/1N** 278680			**FAZ-C63/3N** 278981		

Notes

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

Accessories	**Page**
Auxiliary contacts	→ 19/24
Shunt releases	
Mounting accessories	→ 19/25

FAZ-B4/1-HS, FAZ-B4/2-HS
Special miniature circuit-breakers with much reduced let-through energy to prevent contact weld of **auxiliary contacts**

1 pole
Depth 71 mm
Width 17.5 mm

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

3 pole
Depth 71 mm
Width 52.5 mm

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

Information relevant for export to North America

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.	204453
CSA Class No.	3215-30
NA Certification	UL Recognized, CSA certified
Conditions of Acceptability	Supplementary Protector only
Suitable for	Branch Circuits; not as BCPD
Max. Voltage Rating	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
Degree of Protection	IEC: IP20; UL/CSA Type: -
Short Circuit Current Rating	
≦ 40 A	10 kA
≧ 50 A	5 kA

	Rated operational current I_n A	**1 pole**  **Part no.** Article no.	**Price** See price list	Std. pack	**2 pole** With 2 protected poles  **Part no.** Article no.	**Price** See price list	Std. pack	**3 pole** With 3 protected poles  **Part no.** Article no.	**Price** See price list	Std. pack
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		1 off
	8	**FAZ-D8/1** 278579			**FAZ-D8/2** 278778			**FAZ-D8/3** 278891		
	10	**FAZ-D10/1** 278580			**FAZ-D10/2** 278779			**FAZ-D10/3** 278892		
	13	**FAZ-D13/1** 278582			**FAZ-D13/2** 278781			**FAZ-D13/3** 278894		
	16	**FAZ-D16/1** 278584			**FAZ-D16/2** 278783			**FAZ-D16/3** 278896		
	20	**FAZ-D20/1** 278585			**FAZ-D20/2** 278784			**FAZ-D20/3** 278897		
	25	**FAZ-D25/1** 278586			**FAZ-D25/2** 278785			**FAZ-D25/3** 278898		
	32	**FAZ-D32/1** 278587			**FAZ-D32/2** 278786			**FAZ-D32/3** 278899		
	40	**FAZ-D40/1** 278588			**FAZ-D40/2** 278787			**FAZ-D40/3** 278900		
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  **Part no.** Article no.	**Price** See price list	Std. pack	**4 pole** With 3 protected poles, N switching with poles  **Part no.** Article no.	**Price** See price list	Std. pack
	FAZ-D6/4 279078		1 off	**FAZ-D6/3N** 278992		1 off
	FAZ-D8/4 279079			**FAZ-D8/3N** 278993		
	FAZ-D10/4 279080			**FAZ-D10/3N** 278994		
	FAZ-D13/4 279082			**FAZ-D13/3N** 278996		
	FAZ-D16/4 279084			**FAZ-D16/3N** 278998		
	FAZ-D20/4 279085			**FAZ-D20/3N** 278999		
	FAZ-D25/4 279086			**FAZ-D25/3N** 279000		
	FAZ-D32/4 279087			**FAZ-D32/3N** 279001		
	FAZ-D40/4 279088			**FAZ-D40/3N** 279002		
	FAZ-K0.5/4 279089		1 off	**FAZ-K0.5/3N** 279003		1 off
	FAZ-K1/4 279090			**FAZ-K1/3N** 279004		
	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		

Notes

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

Accessories	**Page**
Auxiliary contacts	→ 19/24
Shunt releases	
Mounting accessories	→ 19/25

1 pole
Depth 71 mm
Width 17.5 mm

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

3 pole
Depth 71 mm
Width 52.5 mm

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

Information relevant for export to North America

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.	204453
CSA Class No.	3215-30
NA Certification	UL Recognized, CSA certified
Conditions of Acceptability	Supplementary Protector only
Suitable for	Branch Circuits; not as BCPD
Max. Voltage Rating	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
Degree of Protection	IEC: IP20; UL/CSA Type: -
Short Circuit Current Rating	
≦ 40 A	10 kA
≧ 50 A	5 kA

	Rated current I_n A	**1 pole**  **Part no.** Article no.	**Price** See price list	Std. pack	**2 pole** With 2 protected poles  **Part no.** Article no.	**Price** See price list	Std. pack
FAZ miniature circuit-breakers							
Characteristic S Instantaneous release response current 13 - 17 x I_n Switching capacity 10 kA (IEC/EN 60947-2)	1	**FAZ-S1/1** 278606		12 off	**FAZ-S1/2** 278805		1 off
	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		
Characteristic Z Instantaneous release response current 2 - 3 x I_n Switching capacity 10 kA (IEC/EN 60947-2)	0.5	**FAZ-Z0,5/1** 278617		12 off	**FAZ-Z0.5/2** 278816		1 off
	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		

3 pole With 3 protected poles  **Part no.** Article no.	**Price** See price list	Std. pack	**4 pole** With 4 protected poles  **Part no.** Article no.	**Price** See price list	Std. pack
FAZ-Z0.5/3 278918		1 off	**FAZ-Z0.5/4** 279106		1 off
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		

Notes

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

Accessories	**Page**
Auxiliary contacts	→ 19/24
Shunt releases	
Mounting accessories	→ 19/25

1 pole
Depth 71 mm
Width 17.5 mm

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

3 pole
Depth 71 mm
Width 52.5 mm

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

Information relevant for export to North America

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.	204453
CSA Class No.	3215-30
NA Certification	UL Recognized, CSA certified
Conditions of Acceptability	Supplementary Protector only
Suitable for	Branch Circuits; not as BCPD
Max. Voltage Rating	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
Degree of Protection	IEC: IP20; UL/CSA Type: -

Short Circuit Current Rating	
≦ 40 A	10 kA
≧ 50 A	5 kA

	Rated operational current I_n A	**1 pole** **Part no.** Article no.	**Price** See price list	Std. pack	**1 pole+N** **Part no.** Article no.	**Price** See price list	Std. pack	**2 pole** **Part no.** Article no.	**Price** See price list	Std. pack	**3 pole** **Part no.** Article no.	**Price** See price list	Std. pack	**3 pole+N** **Part no.** Article no.	**Price** See price list	Std. pack	**4 pole** **Part no.** Article no.	**Price** See price list	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	**FAZT-B1/3** 240874		1 off	**FAZT-B1/3N** 241060		1 off	**FAZT-B1/4** 240922		1 off
	2	**FAZT-B2/1** 240771			**FAZT-B2/1N** 240995			**FAZT-B2/2** 240821			**FAZT-B2/3** 240875			**FAZT-B2/3N** 241065			**FAZT-B2/4** 240927		
	3	**FAZT-B3/1** 240772			**FAZT-B3/1N** 240996			**FAZT-B3/2** 240822			**FAZT-B3/3** 240876			**FAZT-B3/3N** 241070			**FAZT-B3/4** 240930		
	4	**FAZT-B4/1** 240777			**FAZT-B4/1N** 240997			**FAZT-B4/2** 240823			**FAZT-B4/3** 240877			**FAZT-B4/3N** 241075			**FAZT-B4/4** 240931		
	6	**FAZT-B6/1** 240782			**FAZT-B6/1N** 240998			**FAZT-B6/2** 240824			**FAZT-B6/3** 240878			**FAZT-B6/3N** 241080			**FAZT-B6/4** 240932		
	10	**FAZT-B10/1** 240787			**FAZT-B10/1N** 240999			**FAZT-B10/2** 240825			**FAZT-B10/3** 240879			**FAZT-B10/3N** 241085			**FAZT-B10/4** 240933		
	12	**FAZT-B12/1** 240792			**FAZT-B12/1N** 241000			**FAZT-B12/2** 240826			**FAZT-B12/3** 240880			**FAZT-B12/3N** 241090			**FAZT-B12/4** 240934		
	13	**FAZT-B13/1** 240793			**FAZT-B13/1N** 241001			**FAZT-B13/2** 240827			**FAZT-B13/3** 240881			**FAZT-B13/3N** 241095			**FAZT-B13/4** 240935		
	15	**FAZT-B15/1** 240794			**FAZT-B15/1N** 241005			**FAZT-B15/2** 240828			**FAZT-B15/3** 240882			**FAZT-B15/3N** 241100			**FAZT-B15/4** 240936		
	16	**FAZT-B16/1** 240795			**FAZT-B16/1N** 241009			**FAZT-B16/2** 240829			**FAZT-B16/3** 240883			**FAZT-B16/3N** 241105			**FAZT-B16/4** 240937		
	20	**FAZT-B20/1** 240796			**FAZT-B20/1N** 241015			**FAZT-B20/2** 240830			**FAZT-B20/3** 240884			**FAZT-B20/3N** 241110			**FAZT-B20/4** 240938		
	25	**FAZT-B25/1** 240797			**FAZT-B25/1N** 241019			**FAZT-B25/2** 240831			**FAZT-B25/3** 240885			**FAZT-B25/3N** 241115			**FAZT-B25/4** 240939		
	32[1)]	**FAZT-B32/1** 141907			**FAZT-B32/1N** 142509			**FAZT-B32/2** 142485			**FAZT-B32/3** 142493			**FAZT-B32/3N** 142517			**FAZT-B32/4** 142501		
	40[1)]	**FAZT-B40/1** 141908			**FAZT-B40/1N** 142510			**FAZT-B40/2** 142486			**FAZT-B40/3** 142494			**FAZT-B40/3N** 142518			**FAZT-B40/4** 142502		
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	**FAZT-C1/3** 240886		1 off	**FAZT-C1/3N** 241120		1 off	**FAZT-C1/4** 240940		1 off
	2	**FAZT-C2/1** 240799			**FAZT-C2/1N** 241023			**FAZT-C2/2** 240833			**FAZT-C2/3** 240887			**FAZT-C2/3N** 241125			**FAZT-C2/4** 240941		
	3	**FAZT-C3/1** 240800			**FAZT-C3/1N** 241024			**FAZT-C3/2** 240838			**FAZT-C3/3** 240888			**FAZT-C3/3N** 241130			**FAZT-C3/4** 240945		
	4	**FAZT-C4/1** 240801			**FAZT-C4/1N** 241025			**FAZT-C4/2** 240843			**FAZT-C4/3** 240889			**FAZT-C4/3N** 241135			**FAZT-C4/4** 240949		
	6	**FAZT-C6/1** 240802			**FAZT-C6/1N** 241026			**FAZT-C6/2** 240850			**FAZT-C6/3** 240890			**FAZT-C6/3N** 241140			**FAZT-C6/4** 240955		
	10	**FAZT-C10/1** 240803			**FAZT-C10/1N** 241027			**FAZT-C10/2** 240855			**FAZT-C10/3** 240891			**FAZT-C10/3N** 241145			**FAZT-C10/4** 240959		
	12	**FAZT-C12/1** 240804			**FAZT-C12/1N** 241028			**FAZT-C12/2** 240858			**FAZT-C12/3** 240892			**FAZT-C12/3N** 241150			**FAZT-C12/4** 240962		
	13	**FAZT-C13/1** 240805			**FAZT-C13/1N** 241029			**FAZT-C13/2** 240859			**FAZT-C13/3** 240893			**FAZT-C13/3N** 241155			**FAZT-C13/4** 240963		
	15	**FAZT-C15/1** 240806			**FAZT-C15/1N** 241030			**FAZT-C15/2** 240860			**FAZT-C15/3** 240894			**FAZT-C15/3N** 241160			**FAZT-C15/4** 240964		
	16	**FAZT-C16/1** 240807			**FAZT-C16/1N** 241034			**FAZT-C16/2** 240861			**FAZT-C16/3** 240895			**FAZT-C16/3N** 241165			**FAZT-C16/4** 240965		
	20	**FAZT-C20/1** 240808			**FAZT-C20/1N** 241038			**FAZT-C20/2** 240862			**FAZT-C20/3** 240896			**FAZT-C20/3N** 241170			**FAZT-C20/4** 240966		
	25	**FAZT-C25/1** 240809			**FAZT-C25/1N** 241044			**FAZT-C25/2** 240863			**FAZT-C25/3** 240897			**FAZT-C25/3N** 241175			**FAZT-C25/4** 240967		
	32[1)]	**FAZT-C32/1** 141909			**FAZT-C32/1N** 142511			**FAZT-C32/2** 142487			**FAZT-C32/3** 142495			**FAZT-B32/3N** 142519			**FAZT-C32/4** 142503		
	40[1)]	**FAZT-C40/1** 142480			**FAZT-C40/1N** 142512			**FAZT-C40/2** 142488			**FAZT-C40/3** 142496			**FAZT-B40/3N** 142520			**FAZT-C40/4** 142504		
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	**FAZT-D1/3** 240898		1 off	**FAZT-D1/3N** 241180		1 off	**FAZT-D1/4** 240968		1 off
	2	**FAZT-D2/1** 240811			**FAZT-D2/1N** 241051			**FAZT-D2/2** 240865			**FAZT-D2/3** 240899			**FAZT-D2/3N** 241181			**FAZT-D2/4** 240969		
	3	**FAZT-D3/1** 240812			**FAZT-D3/1N** 241052			**FAZT-D3/2** 240866			**FAZT-D3/3** 240900			**FAZT-D3/3N** 241182			**FAZT-D3/4** 240970		
	4	**FAZT-D4/1** 240813			**FAZT-D4/1N** 241053			**FAZT-D4/2** 240867			**FAZT-D4/3** 240901			**FAZT-D4/3N** 241183			**FAZT-D4/4** 240971		
	6	**FAZT-D6/1** 240814			**FAZT-D6/1N** 241054			**FAZT-D6/2** 240868			**FAZT-D6/3** 240902			**FAZT-D6/3N** 241184			**FAZT-D6/4** 240975		

Notes

Switching capacity (IEC/EN 60947-2) 25 kA

Accessories	Page
Auxiliary contacts	→ 19/24
Shunt releases	
Mounting accessories	→ 19/25

1 pole
Depth 71 mm
Width 17.5 mm

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

3 pole
Depth 71 mm
Width 52.5 mm

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

[1)] For additional Technical Data and Characteristic Curves see "Installation Products for Industrial Application FAZ-T": www.moeller.net/cn/support/pdf_Katalog.jsp

	Rated operational current I_n A	1 pole **Part no.** Article no.	**Price** See price list	Std. pack	1 pole+N **Part no.** Article no.	**Price** See price list	Std. pack	2 pole **Part no.** Article no.	**Price** See price list	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		1 off	**FAZT-D10/2** 240869		1 off
	12	**FAZT-D12/1** 240816			**FAZT-D12/1N** 241056			**FAZT-D12/2** 240870		
	13	**FAZT-D13/1** 240817			**FAZT-D13/1N** 241057			**FAZT-D13/2** 240871		
	15	**FAZT-D15/1** 240818			**FAZT-D15/1N** 241058			**FAZT-D15/2** 240872		
	16	**FAZT-D16/1** 240819			**FAZT-D16/1N** 241059			**FAZT-D16/2** 240873		
	20[1)]	**FAZT-D20/1** 142481			**FAZT-D20/1N** 142513			**FAZT-D20/2** 142489		
	25[1)]	**FAZT-D25/1** 142482			**FAZT-D25/1N** 142514			**FAZT-D25/2** 142490		
	32[1)]	**FAZT-D32/1** 142483			**FAZT-D32/1N** 142515			**FAZT-D32/2** 142491		
	40[1)]	**FAZT-D40/1** 142484			**FAZT-D40/1N** 142516			**FAZT-D40/2** 142492		

	Rated operational current I_n A	2 pole With 1 protected pole, N switching with pole **Part no.** Article no.	**Price** See price list	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	**Accessories** **Page** Auxiliary contacts → 19/24 Shunt releases 1 N pole Depth 71 mm Width 17.5 mm
	10	**FAZ-PN-B10/1N** 279147			
	13	**FAZ-PN-B13/1N** 279148			
	16	**FAZ-PN-B16/1N** 279149			
	20	**FAZ-PN-B20/1N** 279150			
	25	**FAZ-PN-B25/1N** 279151			
	32	**FAZ-PN-B32/1N** 279152			
	40	**FAZ-PN-B40/1N** 279153			
Characteristic C Instantaneous release response current 5 - 10 x I_n Switching capacity 6 kA (IEC/EN 60898)	2	**FAZ-PN-C2/1N** 279154		12 off	
	4	**FAZ-PN-C4/1N** 279155			
	6	**FAZ-PN-C6/1N** 279156			
	10	**FAZ-PN-C10/1N** 279157			
	13	**FAZ-PN-C13/1N** 279158			
	16	**FAZ-PN-C16/1N** 279159			
	20	**FAZ-PN-C20/1N** 279160			
	25	**FAZ-PN-C25/1N** 279161			
	32	**FAZ-PN-C32/1N** 279162			
	40	**FAZ-PN-C40/1N** 279163			

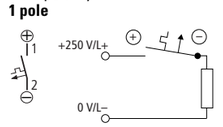
	Rated operational current I_n A	3 pole **Part no.** Article no.	**Price** See price list	Std. pack	3 pole+N **Part no.** Article no.	**Price** See price list	Std. pack	4 pole **Part no.** Article no.	**Price** See price list	Std. pack	**Notes**
	10	**FAZT-D10/3** 240903		1 off	**FAZT-D10/3N** 241185		1 off	**FAZT-D10/4** 240979		1 off	Switching capacity (IEC/EN 60947-2) 25 kA **Accessories** **Page** Auxiliary contacts → 19/24 Shunt releases Mounting accessories → 19/25 1 pole Depth 71 mm Width 17.5 mm 2 pole; 1 pole + N Depth 71 mm Width 35 mm 3 pole Depth 71 mm Width 52.5 mm 4 pole; 3 pole + N Depth 71 mm Width 70 mm → Graphics, Page 19/11 [1)] For additional Technical Data and Characteristic Curves see "Installation Products for Industrial Application FAZ-T": www.moeller.net/cn/support/pdf_Katalog.jsp
	12	**FAZT-D12/3** 240904			**FAZT-D12/3N** 241186			**FAZT-D12/4** 240985			
	13	**FAZT-D13/3** 240905			**FAZT-D13/3N** 241187			**FAZT-D13/4** 240989			
	15	**FAZT-D15/3** 240910			**FAZT-D15/3N** 241188			**FAZT-D15/4** 240992			
	16	**FAZT-D16/3** 240915			**FAZT-D16/3N** 241189			**FAZT-D16/4** 240993			
	20	**FAZT-D20/3** 142497			**FAZT-D20/3N** 142521			**FAZT-D20/4** 142505			
	25	**FAZT-D25/3** 142498			**FAZT-D25/3N** 142522			**FAZT-D25/4** 142506			
	32	**FAZT-D32/3** 142499			**FAZT-D32/3N** 142523			**FAZT-D32/4** 142507			
	40	**FAZT-D40/3** 142500			**FAZT-D40/3N** 142524			**FAZT-D40/4** 142508			

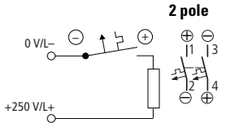
	Rated operational current I_n A	1 pole **Part no.** Article no.	**Price** See price list	Std. pack	2 pole With 2 protected poles **Part no.** Article no.	**Price** See price list	Std. pack	**Notes**
FAZ miniature circuit-breakers for DC applications								
Characteristic C Instantaneous release response current 5 - 10 x I_n Switching capacity 10 kA (IEC/EN 60947-2) (L/R = 4 ms) Rated operating voltage 250 V DC per pole	2	**FAZ-C2/1-DC** 279122		12 off	**FAZ-C2/2-DC** 279134		1 off	**Accessories** **Page** Auxiliary contacts → 19/24 Shunt releases Mounting accessories → 19/25 1 pole Depth 71 mm Width 17.5 mm 2 pole; 1N pole Depth 71 mm Width 35 mm
	3	**FAZ-C3/1-DC** 279123			**FAZ-C3/2-DC** 279135			
	4	**FAZ-C4/1-DC** 279124			**FAZ-C4/2-DC** 279136			
	6	**FAZ-C6/1-DC** 279125			**FAZ-C6/2-DC** 279137			
	10	**FAZ-C10/1-DC** 279126			**FAZ-C10/2-DC** 279138			
	13	**FAZ-C13/1-DC** 279127			**FAZ-C13/2-DC** 279139			
	16	**FAZ-C16/1-DC** 279128			**FAZ-C16/2-DC** 279140			
	20	**FAZ-C20/1-DC** 279129			**FAZ-C20/2-DC** 279141			
	25	**FAZ-C25/1-DC** 279130			**FAZ-C25/2-DC** 279142			
	32	**FAZ-C32/1-DC** 279131			**FAZ-C32/2-DC** 279143			
	40	**FAZ-C40/1-DC** 279132			**FAZ-C40/2-DC** 279144			
	50	**FAZ-C50/1-DC** 279133			**FAZ-C50/2-DC** 279145			

Notes

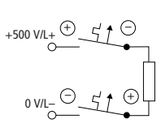
Circuit design notes
Note polarity!

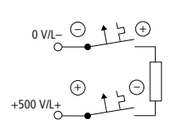
1 pole





2 pole





	Rated operational current I_n A	1 pole Part no. Article no.	Price See price list	Std. pack	2 pole With 2 protected poles Part no. Article no.	Price See price list	Std. pack	3 pole With 3 protected poles Part no. Article no.	Price See price list	Std. pack	4 pole With 4 protected poles Part no. Article no.	Price See price list	Std. pack	4 pole With 3 protected poles, N switching with poles Part no. Article no.	Price See price list	Std. pack
AZ miniature circuit-breakers																
Characteristic C Response current of short-circuit release 5 - 10 x 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	**AZ-4-C20** 211772		1 off	**AZ-3N-C20** 211773		1 off
	25	**AZ-C25** 211774		12 off	**AZ-2-C25** 211775		2 off	**AZ-3-C25** 211776		1 off	**AZ-4-C25** 211777		1 off	**AZ-3N-C25** 211778		1 off
	32	**AZ-C32** 211779		12 off	**AZ-2-C32** 211780		2 off	**AZ-3-C32** 211781		1 off	**AZ-4-C32** 211782		1 off	**AZ-3N-C32** 211783		1 off
	40	**AZ-C40** 211784		12 off	**AZ-2-C40** 211785		2 off	**AZ-3-C40** 211786		1 off	**AZ-4-C40** 211787		1 off	**AZ-3N-C40** 211788		1 off
	50	**AZ-C50** 211789		12 off	**AZ-2-C50** 211790		2 off	**AZ-3-C50** 211791		1 off	**AZ-4-C50** 211792		1 off	**AZ-3N-C50** 211793		1 off
	63	**AZ-C63** 211794		12 off	**AZ-2-C63** 211795		2 off	**AZ-3-C63** 211796		1 off	**AZ-4-C63** 211797		1 off	**AZ-3N-C63** 211798		1 off
	80	**AZ-C80** 211799		12 off	**AZ-2-C80** 211800		2 off	**AZ-3-C80** 211801		1 off	**AZ-4-C80** 211802		1 off	**AZ-3N-C80** 211803		1 off
	100	**AZ-C100** 211804		12 off	**AZ-2-C100** 211805		2 off	**AZ-3-C100** 211806		1 off	**AZ-4-C100** 211807		1 off	**AZ-3N-C100** 211808		1 off
	125	**AZ-C125** 211809		12 off	**AZ-2-C125** 211810		2 off	**AZ-3-C125** 211811		1 off	**AZ-4-C125** 211812		1 off	**AZ-3N-C125** 211813		1 off
Characteristic D Instantaneous release response current 10 - 20 x 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				**AZ-3N-D50** 211817		1 off
	63	**AZ-D63** 211818		12 off	**AZ-2-D63** 211819		2 off	**AZ-3-D63** 211820		1 off				**AZ-3N-D63** 211821		1 off
	80	**AZ-D80** 211822		12 off	**AZ-2-D80** 211823		2 off	**AZ-3-D80** 211824		1 off				**AZ-3N-D80** 211825		1 off
	100	**AZ-D100** 211826		12 off	**AZ-2-D100** 211827		2 off	**AZ-3-D100** 211828		1 off				**AZ-3N-D100** 211829		1 off

Notes

For switching capacity refer to Technical Data

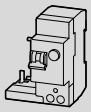
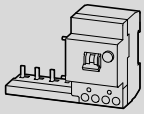
Accessories	Page
Auxiliary contacts, shunt releases	→ 19/24
Mounting accessories	→ 19/25

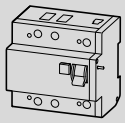
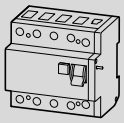
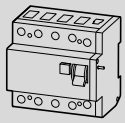
1 pole
Depth 75 mm
Width 27 mm

2 pole
Depth 75 mm
Width 54 mm

3 pole
Depth 75 mm
Width 81 mm

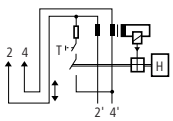
4 pole; 3 pole + N
Depth 75 mm
Width 108 mm

	Rated uninterrupted current I_u A	2 pole  **Part no.** Article no.	**Price** See price list	4 pole  **Part no.** Article no.	**Price** See price list			Std. pack
Residual-current protective modules for FAZ								
Rated fault current $I_{\Delta N}$ = 30 mA	40	**FIM-40/2/0.03-A** 278510		**FIM-40/4/0.03-A** 278514				1 off
Rated fault current $I_{\Delta N}$ = 30 mA	63	**FIM-63/2/0.03-A** 278512		**FIM-63/4/0.03-A** 278516				
Rated fault current $I_{\Delta N}$ = 300 mA	40	**FIM-40/2/0.3-A** 278511		**FIM-40/4/0.3-A** 278515				
Rated fault current $I_{\Delta N}$ = 300 mA	63	**FIM-63/2/0.3-A** 278513		**FIM-63/4/0.3-A** 278517				

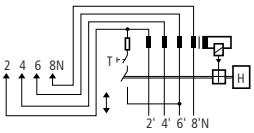
	Rated uninterrupted current I_u A	2 pole  **Part no.** Article no.	**Price** See price list	4 pole  **Part no.** Article no.	**Price** See price list	4 pole Selective  **Part no.** Article no.	**Price** See price list	Std. pack
Residual-current protective modules for AZ								
Rated fault current $I_{\Delta N}$ = 30 mA	80			**AZFIMP-4-80-0,03** 255484				1 off
Rated fault current $I_{\Delta N}$ = 30 mA	125			**AZFIMP-4-125-0,03** 255488				
Rated fault current $I_{\Delta N}$ = 300 mA	80	**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 mA	125	**AZFIMP-2-125-0,3** 255481		**AZFIMP-4-125-0,3** 255489		**AZFIMS-4-125-0,3** 255495		

Notes

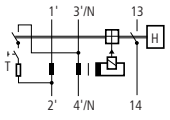
FIM-…/2/…



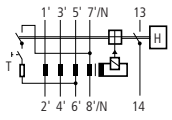
FIM-…/4/…

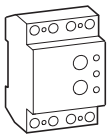


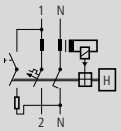
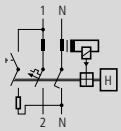
AZFIMP-2-…

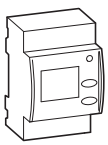


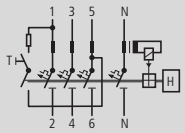
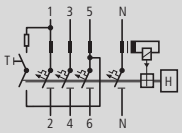
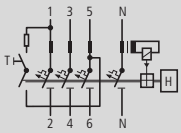
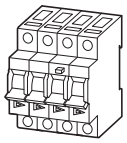
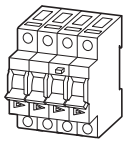
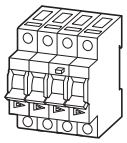
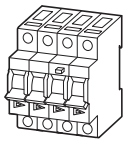
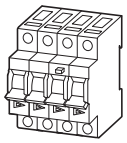
AZFIMP-4-…
AZFIMS-4-…

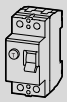
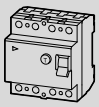


	Pole	Rated operational current I_n A	Response value Earth-fault release $I_{\Delta n}$ A	**Part no.** Article no.	**Price** See price list	Std. pack
Leakage current meter						
• 4 pole, can also be used as 2 and 3 pole • Electronic operation (independent of mains voltage) •  , non-delayed • Type G or 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

	Rated operational current I_n A	**2 pole**  **Part no.** Article no. Rated fault current $I_{\Delta N}$ = 30 mA	**Price** See price list	**2 pole**  **Part no.** Article no. Rated fault current $I_{\Delta N}$ = 300 mA	**Price** See price list	Std. pack
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		

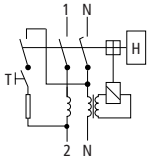
	Pole	Description	Rated operational current I_n A	**Part no.** Article no.	**Price** See price list	Std. pack
Power meter						
Power meter to IEC/EN 62053 for sub measurements • For active/reactive energy • Three-phase models also suitable for unbalanced load • Programmable through 2 keys on device front • 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		

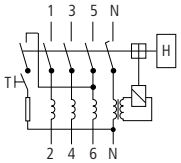
	Rated operational current I_n A	3 pole + N  **Part no.** Article no. Rated fault current $I_{\Delta N}$ = 30 mA	3 pole + N  **Part no.** Article no. Rated fault current $I_{\Delta N}$ = 100 mA	3 pole + N  **Part no.** Article no. Rated fault current $I_{\Delta N}$ = 300 mA	**Price** See price list	Std. pack
FI/LS combination switches mRB6						
• Conditionally surge-proof 250 A • Pulse-current sensitive, Type A • Depth 75 mm • Width 70 mm						
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						
• Conditionally surge-proof 250 A • Pulse-current sensitive, Type A • Depth 75 mm • Width 70 mm						
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  Part no. Article no.	Price See price list	Std. pack	4 pole  Part no. Article no.	Price See price list	Std. pack
Residual-current devices FI, type A							
Rated fault current $I_{\Delta N}$ = 30 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 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 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 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		

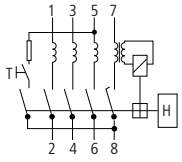
Notes

≦ 100 A

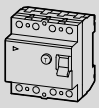


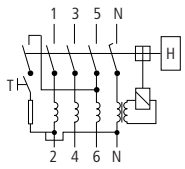
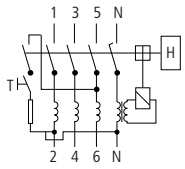
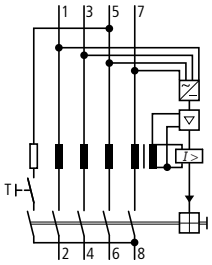


125 A



4 pole

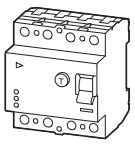


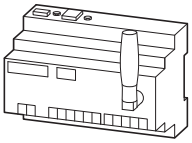
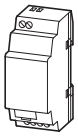
	Rated uninterrupted current I_u A	Part no. Article no.	Price See price list	Std. pack	Notes
Suitable for frequency inverters, type U					
Rated fault current $I_{\Delta N}$ = 100 mA	40	**FI-40/4/01-U** 279234		1 off	
	63	**FI-63/4/01-U** 279236		1 off	
Rated fault current $I_{\Delta N}$ = 300 mA	40	**FI-40/4/03-U** 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	

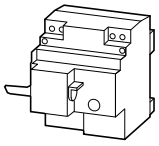
For use in 50 Hz AC current systems with electrical equipment such as frequency inverters, UPS systems or switched-mode power supply units. During a malfunction electrical equipment can cause AC fault currents and pulsed DC fault currents as well as smoothed d.c. fault currents, where residual-current 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.

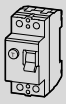
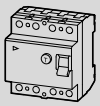
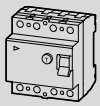
- Caution: In some countries the insurance companies place special demands on residual-current devices.
- Contact position display red-green
- Position independent function
- Trip occurs independent of the mains voltage (currents type AC and A)
- 30 V AC necessary for detection of type B current
- Mains 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

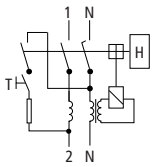
		Rated operational current I_n A	**Part no.** Article no.	**Price** See price list	Std. pack
Residual-current devices dRCM, digital					
• 4 pole • Contact position display red-green • Trip indication white/blue					
	Surge-proof 3 kA, pulse-current sensitive, Type G/A				
	Rated fault current $I_{\Delta N}$ = 30 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 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 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 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 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 mA	40	**dRCM-40/4/003-U+** 120850		1 off
		63	**dRCM-63/4/003-U+** 120846		1 off

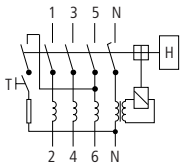
		Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
Remote monitoring unit					
• GSM-based universal remote monitoring and control through SMS • Configuration and status monitoring through SMS • Built-in modem monitoring and associated status indication 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 UL File No.: E135462 UL CCN: NRAQ CSA File No.: 012528 CSA Class No.: 2252-01 + 2258-02 NA Certification: UL Listed, CSA certified Degree of Protection: IEC: IP20, UL/CSA Type: -
Temperature sensor		**Z-CC/2CO-SE** 119430		1 off	

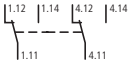
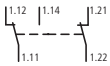
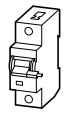
		Part no. Article no.	Price See price list	Std. pack
Remote switching modules				
• IEC/EN 60669-2-2 • For remote switching and automatic restart of FAZ miniature circuit-breakers and FI residual-current devices up to 80 A, except Type B • Mechanically lockable and sealable • LED indication of operational 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	**FAZ/FIP-XAWM** 262514		1 off
	48 V DC	**FAZ/FIP-XDWM** 274404		1 off
Remote test module				
• External test module with test resistor for RCCB devices • Version adapted for rated fault currents with stipulated “external” test button function				
–	0.01 A	**Z-FW/001** 248297		4 off
	0.03 A	**Z-FW/003** 248298		4 off
	0.1 A	**Z-FW/010** 248299		4 off
	0.3 A	**Z-FW/030** 248300		4 off
	0.5 A	**Z-FW/050** 248301		4 off

	Rated uninterrupted current I_u A	2 pole  **Part no.** Article no.	**Price** See price list	Std. pack	4 pole  **Part no.** Article no.	**Price** See price list	Std. pack	4 pole Selective and surge-proof 5 kA  **Part no.** Article no.	**Price** See price list	Std. pack
FI residual-current devices, only for export (AC type)										
Rated fault current $I_{\Delta N}$ = 30 mA	16	**FI-16/2/003** 279176		1 off						
	25	**FI-25/2/003** 279177			**FI-25/4/003** 279196		1 off			
	40	**FI-40/2/003** 279180			**FI-40/4/003** 279200					
	63	**FI-63/2/003** 279190			**FI-63/4/003** 279204					
	80	**FI-80/2/003** 279192			**FI-80/4/003** 279208					
Rated fault current $I_{\Delta N}$ = 100 mA	25	**FI-25/2/01** 279178			**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		1 off
	80	**FI-80/2/01** 279193			**FI-80/4/01** 279231					
Rated fault current $I_{\Delta N}$ = 300 mA	25	**FI-25/2/03** 279179			**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		1 off
	25				**FI-80/4/03** 279209			**FI-80/4/03-S** 279212		1 off
Rated fault current $I_{\Delta N}$ = 500 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-XHIN11**[3] 286054		10 off
	FAZ... PKNM...	to 63 A	1 C		0.5	**FAZ-XHINW1**[4] 286055		10 off
	AZ...	to 125 A	1 N/O/ 1 NC		0.5	**AZ-XHI11** 212067		8 off
Trip-indicating auxiliary contact/auxiliary contact for FAZ, PKNM[1]								
	FAZ... PKNM...	to 63 A	2 C		0.5	**FAZ-XAM002**[5] 262414		10 off
Auxiliary contacts for FI								
	FI...	16 - 100 A, except type B	1 N/O/ 1 NC		0.5	**FIP-XHI11** 225121		10 off
	FI...[2]	125 A and all type B	1 NC / 1 N/O		0.5	**FIPA-XAM011** 262578		1 off
Shunt releases for FAZ, PKNM, AZ								
	FAZ... PKNM...	to 63 A	–		1	**FAZ-XAA-C-12-110VAC** 278518		1 off
	FAZ... PKNM...	to 63 A	–		1	**FAZ-XAA-C-110-415VAC** 278519		1 off
	AZ...	to 125 A	–		1.5	**AZ-XAA(110-415VAC)** 212059		8 off
	AZ...	to 125 A	–		1.5	**AZ-XAA(12-60VAC)** 212061		8 off
Undervoltage releases for FAZ								
	FAZ...	–	–		1	**FAZ-XUA(115VAC)** 212049		7 off
	FAZ...	–	–		1	**FAZ-XUA(230VAC)** 212051		7 off
	FAZ...	–	–		1	**FAZ-XUA(400VAC)** 212053		7 off
MCB lock for FAZ/FIP								
	FAZ... FIP...	–	–	–	–	**IS/SPE-1TE** 101911		5 off

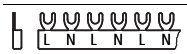
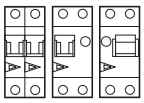
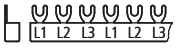
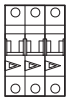
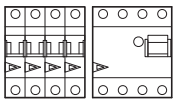
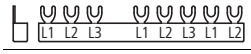
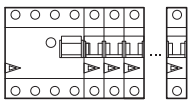
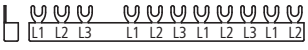
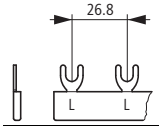
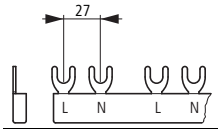
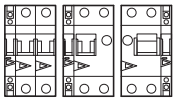
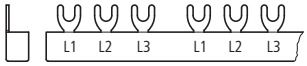
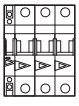
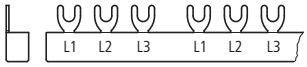
Notes

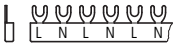
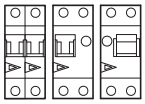
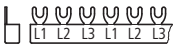
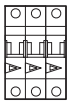
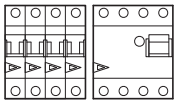
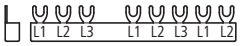
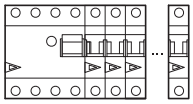
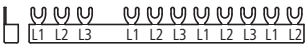
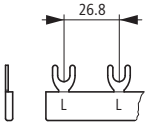
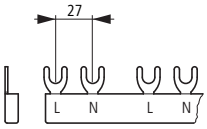
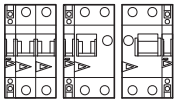
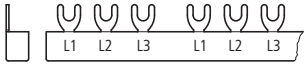
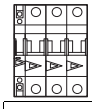
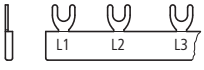
[1] The device is supplied with the groove in the yellow selector button in the horizontal: Changeover contact 4.11 – 4.12/4.14 switches when tripped manually or electrically. Turning the yellow selector button by 90° results in contact 4.11 – 4.12/4.14 responding only to electrical tripping: the contact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

[2] The device is supplied with the "Auxiliary 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.

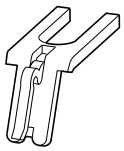
Information relevant for export to North America

[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.	3215-30
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)						
• No end caps required • Do not shorten						
10 mm²						
• Rated operational current 63 A						
For PXL, PXF, PXK, PFIM-U, PFNM						
	1	2	**EVG-1PHAS/2MODUL** 215646		40 off	
	1	6	**EVG-1PHAS/6MODUL** 215638		40 off	
	1	12	**EVG-1PHAS/12MODUL** 215637		40 off	
	2	4	**EVG-2PHAS/4MODUL** 268220		20 off	
	2	6	**EVG-2PHAS/6MODUL** 215642		20 off	
	2	12	**EVG-2PHAS/12MODUL** 215641		20 off	
	3	6	**EVG-3PHAS/6MODUL** 215640		20 off	
	3	9	**EVG-3PHAS/9MODUL** 215645		20 off	
	3	12	**EVG-3PHAS/12MODUL** 215639		20 off	
	3	16	**EVG-3PHAS/16MODUL** 285381		20 off	
	3	20	**EVG-3PHAS/20MODUL** 285383		10 off	
	4	8	**EVG-4PHAS/8MODUL** 215644		10 off	
	4	12	**EVG-4PHAS/12MODUL** 215643		10 off	
	4	16	**EVG-3P+3N/16MODUL** 105215		20 off	
	4	18	**EVG-3P+3N/18MODUL** 274161		20 off	
For 2 pole combination RCCB/circuit-breaker with a width of 3 space units						
	1	2 - 5	**EVG-1PHAS/2-5MODUL/FILS** 285384		40 off	
For combined use of 4 pole residual-current devices with miniature circuit-breakers						
	3	4 + 5	**EVG-3PHAS/N/5MODUL/LS** 215659		20 off	
	3	4 + 8	**EVG-3PHAS/N/8MODUL/LS** 215660		20 off	
For use with auxiliary contacts						
	1	2.5	**EVG-1PHAS/2MODUL/HI** 215655		40 off	
	1	13	**EVG-1PHAS/9MODUL/HI** 215656		40 off	
	2	4.5	**EVG-2PHAS/4MODUL/HI** 219573		20 off	
	2	12	**EVG-2PHAS/10MODUL/HI** 215657		20 off	
	3	6.5	**EVG-3PHAS/6MODUL/HI** 216411		20 off	
	3	13.5	**EVG-3PHAS/12MODUL/HI** 215658		20 off	

	Phases Number	Devices Number	**Part no.** Article no.	**Price** See price list	Std. pack	**Notes**
Euro-Vario busbars (fork connector)						
• No end caps required • Do not shorten						
16 mm²						
• Rated operational current 100 A						
For FAZ…, FI…						
	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	

HPL19027EN

	Pole	Rated operational current I_e A	Cross section mm²	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	Interrupting capacity (SCCR)	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	2 pole **Part no.** Article no.	**Price** See price list	Std. pack
I_n A	kA							
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 off
1.5	10	AWG 18	**FAZ-B1,5/1-NA**[1] 132415			**FAZ-B1,5/2-NA**[1] 132694		
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		

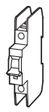
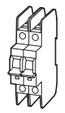
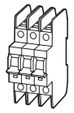
3 pole **Part no.** Article no.	**Price** See price list	Std. pack	**Information relevant for export to North America**	**Notes**
FAZ-B1/3-NA[1] 132712		1 off	[1] Product Standards: IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE marking UL File No.: E235139 UL CCN: DIVQ CSA File No.: 204453 CSA Class No.: 1432-01 NA Certification: UL Listed, CSA certified Suitable for: Feeder circuits, branch circuits 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 Degree of Protection: IEC: IP20, UL/CSA Type: -	Accessories → 19/40 1 pole Depth 75 mm Width 17.7 mm
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			[2] Product Standards: IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE marking UL File No.: E235139 UL CCN: DIVQ CSA File No.: 204453 CSA Class No.: 1432-01 NA Certification: UL Listed, CSA certified Suitable for: Feeder circuits, branch circuits 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 Degree of Protection: IEC: IP20, UL/CSA Type: -	2 pole Depth 75 mm Width 35.4 mm
FAZ-B40/3-NA[2] 132730				3 pole Depth 75 mm Width 53.1 mm

FAZ-NA 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	1 pole **Part no.** Article no.	**Price** See price list	Std. pack	2 pole **Part no.** Article no.	**Price** See price list	Std. pack
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]	Accessories → 19/40
FAZ-C1/3-NA[1] 102238			Product Standards: IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE marking UL File No.: E235139 UL CCN: DIVQ CSA File No.: 204453 CSA Class No.: 1432-01 NA Certification: UL Listed, CSA certified Suitable for: Feeder circuits, branch circuits 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 Degree of Protection: IEC: IP20, UL/CSA Type: -	1 pole Depth 75 mm Width 17.7 mm
FAZ-C1.5/3-NA[1] 102239				
FAZ-C2/3-NA[1] 102240				
FAZ-C3/3-NA[1] 102241				
FAZ-C4/3-NA[1] 102242				
FAZ-C5/3-NA[1] 102243				
FAZ-C6/3-NA[1] 102244				
FAZ-C7/3-NA[1] 102245				
FAZ-C8/3-NA[1] 102246				
FAZ-C10/3-NA[1] 102247				
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			[2]	
FAZ-C40/3-NA[2] 102256			Product Standards: IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE marking UL File No.: E235139 UL CCN: DIVQ CSA File No.: 204453 CSA Class No.: 1432-01 NA Certification: UL Listed, CSA certified Suitable for: Feeder circuits, branch circuits 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 Degree of Protection: IEC: IP20, UL/CSA Type: -	2 pole Depth 75 mm Width 35.4 mm
			FAZ-NA can also be used where FAZ Supplementary Protectors to UL 1077 are sufficient.	3 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	**2 pole**  **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]	Accessories → 19/40
FAZ-D1/3-NA[1] 102258			Product Standards: IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE marking UL File No.: E235139 UL CCN: DIVQ CSA File No.: 204453 CSA Class No.: 1432-01 NA Certification: UL Listed, CSA certified Suitable for: Feeder circuits, branch circuits 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 Degree of Protection: IEC: IP20, UL/CSA Type: -	1 pole Depth 75 mm Width 17.7 mm 
FAZ-D1.5/3-NA[1] 102259				
FAZ-D2/3-NA[1] 102260				
FAZ-D3/3-NA[1] 102261				
FAZ-D4/3-NA[1] 102262				
FAZ-D5/3-NA[1] 102263				
FAZ-D6/3-NA[1] 102264				
FAZ-D7/3-NA[1] 102265				
FAZ-D8/3-NA[1] 102266				
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			[2]	
FAZ-D40/3-NA[2] 102276			Product Standards: IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE marking UL File No.: E235139 UL CCN: DIVQ CSA File No.: 204453 CSA Class No.: 1432-01 NA Certification: UL Listed, CSA certified Suitable for: Feeder circuits, branch circuits 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 Degree of Protection: IEC: IP20, UL/CSA Type: -	2 pole Depth 75 mm Width 35.4 mm 
			FAZ-NA can also be used where FAZ Supplementary Protectors to UL 1077 are sufficient.	3 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	2 pole Part no. Article no.	Price See price list	Std. pack	3 pole Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America	Notes
Miniature circuit-breakers FAZ-RT													
• With ring cable lug connection • Characteristic B • Switching capacity 15 kA IEC													
1	10	AWG 18	**FAZ-B1/1-RT**[1] 132731		2 off	**FAZ-B1/2-RT**[1] 132750		1 off	**FAZ-B1/3-RT**[1] 132769		1 off	[1] Product Standards: IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE marking UL File No.: E235139 UL CCN: DIVQ CSA File No.: 204453 CSA Class No.: 1432-01 NA Certification: UL Listed, CSA certified Suitable for: Feeder circuits, branch circuits 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 Degree of Protection: IEC: IP20, UL/CSA Type: -	Accessories → 19/40 1 pole Depth 75 mm Width 17.7 mm
1.5	10	AWG 18	**FAZ-B1,5/1-RT**[1] 132732			**FAZ-B1,5/2-RT**[1] 132751			**FAZ-B1.5/3-RT**[1] 132770				
2	10	AWG 18	**FAZ-B2/1-RT**[1] 132733			**FAZ-B2/2-RT**[1] 132752			**FAZ-B2/3-RT**[1] 132771				
3	10	AWG 18	**FAZ-B3/1-RT**[1] 132734			**FAZ-B3/2-RT**[1] 132753			**FAZ-B3/3-RT**[1] 132772				
4	10	AWG 18	**FAZ-B4/1-RT**[1] 132735			**FAZ-B4/2-RT**[1] 132754			**FAZ-B4/3-RT**[1] 132773				
5	10	AWG 18	**FAZ-B5/1-RT**[1] 132736			**FAZ-B5/2-RT**[1] 132755			**FAZ-B5/3-RT**[1] 132774				
6	10	AWG 18	**FAZ-B6/1-RT**[1] 132737			**FAZ-B6/2-RT**[1] 132756			**FAZ-B6/3-RT**[1] 132775				
7	10	AWG 18	**FAZ-B7/1-RT**[1] 132738			**FAZ-B7/2-RT**[1] 132757			**FAZ-B7/3-RT**[1] 132776				
8	10	AWG 16	**FAZ-B8/1-RT**[1] 132739			**FAZ-B8/2-RT**[1] 132758			**FAZ-B8/3-RT**[1] 132777				
10	10	AWG 16	**FAZ-B10/1-RT**[1] 132740			**FAZ-B10/2-RT**[1] 132759			**FAZ-B10/3-RT**[1] 132778				
13	10	–	**FAZ-B13/1-RT**[1] 132741			**FAZ-B13/2-RT**[1] 132760			**FAZ-B13/3-RT**[1] 132779				
15	14	–	**FAZ-B15/1-RT**[1] 132742			**FAZ-B15/2-RT**[1] 132761			**FAZ-B15/3-RT**[1] 132780				
16	14	–	**FAZ-B16/1-RT**[1] 132743			**FAZ-B16/2-RT**[1] 132762			**FAZ-B16/3-RT**[1] 132781				
20	14	–	**FAZ-B20/1-RT**[1] 132744			**FAZ-B20/2-RT**[1] 132763			**FAZ-B20/3-RT**[1] 132782				
25	14	–	**FAZ-B25/1-RT**[1] 132745			**FAZ-B25/2-RT**[1] 132764			**FAZ-B25/3-RT**[1] 132783				
30	10	–	**FAZ-B30/1-RT**[1] 132746			**FAZ-B30/2-RT**[1] 132765			**FAZ-B30/3-RT**[1] 132784				
32	10	–	**FAZ-B32/1-RT**[1] 132747			**FAZ-B32/2-RT**[1] 132766			**FAZ-B32/3-RT**[1] 132785				
35	10	–	**FAZ-B35/1-RT**[2] 132748			**FAZ-B35/2-RT**[2] 132767			**FAZ-B35/3-RT**[2] 132786			[2] Product Standards: IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE marking UL File No.: E235139 UL CCN: DIVQ CSA File No.: 204453 CSA Class No.: 1432-01 NA Certification: UL Listed, CSA certified Suitable for: Feeder circuits, branch circuits 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 Degree of Protection: IEC: IP20, UL/CSA Type: -	2 pole Depth 75 mm Width 35.4 mm
40	10	–	**FAZ-B40/1-RT**[2] 132749			**FAZ-B40/2-RT**[2] 132768			**FAZ-B40/3-RT**[2] 132787			FAZ-RT can also be used where FAZ Supplementary Protectors to UL 1077 are sufficient.	3 pole Depth 75 mm Width 53.1 mm

Miniature circuit-breakers FAZ-RT

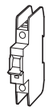
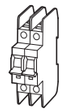
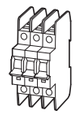
- With ring cable lug connection
- Characteristic C
- Switching capacity 15 kA IEC

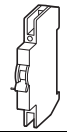
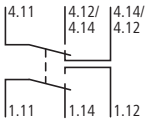
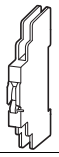
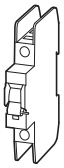
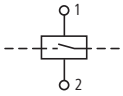
Rated operational current I_n A	Interrupting capacity (SCCR) kA	Special approval for protection of AWG 18 or AWG 16 to NFPA70 (NEC) and NFPA 79	1 pole Part no. Article no.	Price See price list	Std. pack	2 pole Part no. Article no.	Price See price list	Std. pack
0.5	10	AWG 18	**FAZ-C0,5/1-RT**[1] 102117		2 off	**FAZ-C0.5/2-RT**[1] 102197		1 off
1	10	AWG 18	**FAZ-C1/1-RT**[1] 102118			**FAZ-C1/2-RT**[1] 102198		
1.5	10	AWG 18	**FAZ-C0,5/1-RT**[1] 102119			**FAZ-C1.5/2-RT**[1] 102199		
2	10	AWG 18	**FAZ-C2/1-RT**[1] 102120			**FAZ-C2/2-RT**[1] 102200		
3	10	AWG 18	**FAZ-C3/1-RT**[1] 102121			**FAZ-C3/2-RT**[1] 102201		
4	10	AWG 18	**FAZ-C4/1-RT**[1] 102122			**FAZ-C4/2-RT**[1] 102202		
5	10	AWG 18	**FAZ-C5/1-RT**[1] 102123			**FAZ-C5/2-RT**[1] 102203		
6	10	AWG 18	**FAZ-C6/1-RT**[1] 102124			**FAZ-C6/2-RT**[1] 102204		
7	10	AWG 18	**FAZ-C7/1-RT**[1] 102125			**FAZ-C7/2-RT**[1] 102205		
8	10	AWG 16	**FAZ-C8/1-RT**[1] 102126			**FAZ-C8/2-RT**[1] 102206		
10	10	AWG 16	**FAZ-C10/1-RT**[1] 102127			**FAZ-C10/2-RT**[1] 102207		
13	10	–	**FAZ-C13/1-RT**[1] 102128			**FAZ-C13/2-RT**[1] 102208		
15	14	–	**FAZ-C15/1-RT**[1] 102129			**FAZ-C15/2-RT**[1] 102209		
16	14	–	**FAZ-C16/1-RT**[1] 102130			**FAZ-C16/2-RT**[1] 102210		
20	14	–	**FAZ-C20/1-RT**[1] 102131			**FAZ-C20/2-RT**[1] 102211		
25	14	–	**FAZ-C25/1-RT**[1] 102132			**FAZ-C25/2-RT**[1] 102212		
30	10	–	**FAZ-C30/1-RT**[1] 102133			**FAZ-C30/2-RT**[1] 102213		
32	10	–	**FAZ-C32/1-RT**[1] 102134			**FAZ-C32/2-RT**[1] 102214		
35	10	–	**FAZ-C35/1-RT**[2] 102135			**FAZ-C35/2-RT**[2] 102215		
40	10	–	**FAZ-C40/1-RT**[2] 102136			**FAZ-C40/2-RT**[2] 102216		

3 pole Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America	Notes
FAZ-C0.5/3-RT[1] 102277		1 off	[1]	Accessories → 19/40
FAZ-C1/3-RT[1] 102278			Product Standards: IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE marking UL File No.: E235139 UL CCN: DIVQ CSA File No.: 204453 CSA Class No.: 1432-01 NA Certification: UL Listed, CSA certified Suitable for: Feeder circuits, branch circuits 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 Degree of Protection: IEC: IP20, UL/CSA Type: -	1 pole Depth 75 mm Width 17.7 mm
FAZ-C1.5/3-RT[1] 102279				
FAZ-C2/3-RT[1] 102280				
FAZ-C3/3-RT[1] 102281				
FAZ-C4/3-RT[1] 102282				
FAZ-C5/3-RT[1] 102283				
FAZ-C6/3-RT[1] 102284			[2]	2 pole Depth 75 mm Width 35.4 mm
FAZ-C7/3-RT[1] 102285			Product Standards: IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE marking UL File No.: E235139 UL CCN: DIVQ CSA File No.: 204453 CSA Class No.: 1432-01 NA Certification: UL Listed, CSA certified Suitable for: Feeder circuits, branch circuits 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 Degree of Protection: IEC: IP20, UL/CSA Type: -	
FAZ-C8/3-RT[1] 102286				
FAZ-C10/3-RT[1] 102287				
FAZ-C13/3-RT[1] 102288				
FAZ-C15/3-RT[1] 102289				
FAZ-C16/3-RT[1] 102290				
FAZ-C20/3-RT[1] 102291				
FAZ-C25/3-RT[1] 102292				
FAZ-C30/3-RT[1] 102293				
FAZ-C32/3-RT[1] 102294				
FAZ-C35/3-RT[2] 102295				3 pole Depth 75 mm Width 53.1 mm
FAZ-C40/3-RT[2] 102296				

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	**1 pole**  **Part no.** Article no.	**Price** See price list	Std. pack	**2 pole**  **Part no.** Article no.	**Price** See price list	Std. pack
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		

3 pole  **Part no.** Article no.	**Price** See price list	Std. pack	**Information relevant for export to North America**	**Notes**
FAZ-D0.5/3-RT[1] 102297		1 off	[1] Product Standards: IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE marking UL File No.: E235139 UL CCN: DIVQ CSA File No.: 204453 CSA Class No.: 1432-01 NA Certification: UL Listed, CSA certified Suitable for: Feeder circuits, branch circuits 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 Degree of Protection: IEC: IP20, UL/CSA Type: - [2] Product Standards: IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE marking UL File No.: E235139 UL CCN: DIVQ CSA File No.: 204453 CSA Class No.: 1432-01 NA Certification: UL Listed, CSA certified Suitable for: Feeder circuits, branch circuits 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 Degree of Protection: IEC: IP20, UL/CSA Type: - FAZ-RT can also be used where FAZ Supplementary Protectors to UL 1077 are sufficient.	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 
FAZ-D1/3-RT[1] 102298				
FAZ-D1.5/3-RT[1] 102299				
FAZ-D2/3-RT[1] 102300				
FAZ-D3/3-RT[1] 102301				
FAZ-D4/3-RT[1] 102302				
FAZ-D5/3-RT[1] 102303				
FAZ-D6/3-RT[1] 102304				
FAZ-D7/3-RT[1] 102305				
FAZ-D8/3-RT[1] 102306				
FAZ-D10/3-RT[1] 102307				
FAZ-D13/3-RT[1] 102308				
FAZ-D15/3-RT[1] 102309				
FAZ-D16/3-RT[1] 102310				
FAZ-D20/3-RT[1] 102311				
FAZ-D25/3-RT[1] 102312				
FAZ-D30/3-RT[1] 102313				
FAZ-D32/3-RT[1] 102314				
FAZ-D35/3-RT[2] 102315				
FAZ-D40/3-RT[2] 102316				

	Contacts C = Changeover contact N/O = normally open contact NC = normally closed contact	Contact sequences	Space units 1 PLE = 18 mm	For use with	**Part no.** Article no.	**Price** See price list	Std. pack
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-RT	**Z-NHK** 248434		4 off
Auxiliary contacts • Suitable for FAZ-NA > 480Y/277 V AC							
	1 N/O 1 NC		0.5	FAZ-NA FAZ-RT	**Z-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		1 off
	–		1	FAZ-NA FAZ-RT	**FAZ-XAA-NA12-110VAC** 102037		1 off

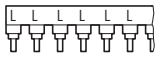
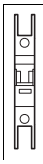
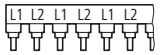
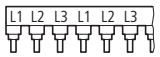
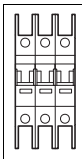
Information relevant for export to North America

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: -

Accessories for FAZ-NA, FAZ-RT

Busbars (pin), UL 489

- 16 mm²
- Rated operational current 80 A
- For FAZ-NA, FAZ-RT
- Do not shorten

	Phases Number	Devices Number	Part no. Article no.	Price See price list	Std. pack	Notes
	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			

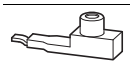
Information relevant for export to North America

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: -

Accessories for FAZ-NA, FAZ-RT

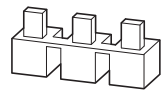
Connecting bracket

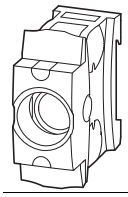
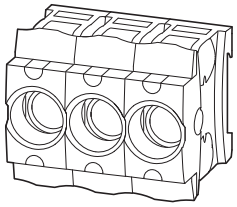
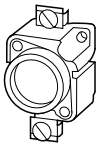
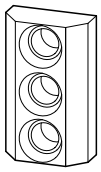
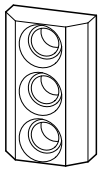
- 2.5 - 35 mm², AWG 14-2
- UL 489

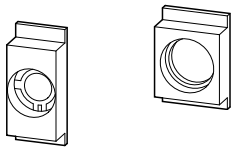
	For use with	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America	
	FAZ-NA FAZ-RT	**Z-EK/35/UL** 104901		3 off	Product Standards	IEC/EN 60898; UL 489; CE marking
					UL File No.	E257181
					UL CCN	NMTR2, DIHS2
					CSA File No.	–
					CSA Class No.	–
					NA Certification	UL Recognized
					Suitable for	Feeder circuits, branch circuits
					Max. Voltage Rating	Refer to main components FAZ, FAZ-NA, FAZ-RT
					Degree of Protection	IEC: IP20, UL/CSA Type: -

Busbar cover

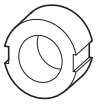
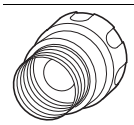
- for 3 pins
- UL 489

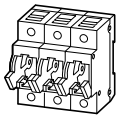
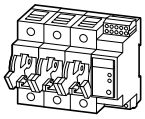
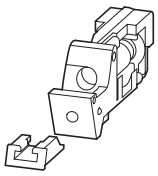
	FAZ-NA FAZ-RT	**ZV-BS-UL** 104904		10 off	Product Standards	IEC/EN 60898; UL 489; CE marking
					UL File No.	E257181
					UL CCN	NMTR2, DIHS2
					CSA File No.	–
					CSA Class No.	–
					NA Certification	UL Recognized
					Degree of Protection	IEC: IP20, UL/CSA Type: -

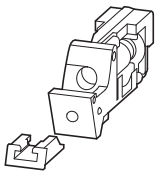
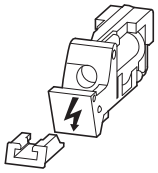
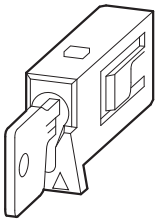
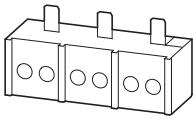
	Pole	Rated operational current I_e A	Rated operational voltage U_e V AC	Fuse-link Size	**Part no.** Article no.	**Price** See price list	Std. pack	**Notes**
Fuse bases								
	1 pole	16	–	D01	**D01-SO/16/1** 102752		9 off	Equipment supplied: Empty, without screw on cover
	1 pole	63	–	D02	**D02-SO/63/1** 102675		9 off	
	3 pole	16	–	D01	**D01-SO/16/3** 102674		3 off	
	3 pole	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	
		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	
		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	

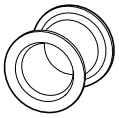
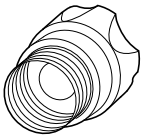
		For use with	Part no. Article no.	Price See price list	Std. pack
Covers for 1 pole fuse bases					
Standard front dimension 45 mm					
		S…-1/…	**P-E27** 090928		10 off
		S…-1/…	**P-E33** 093301		10 off
Transparent shroud					
	With cable entry knockouts top and bottom	–	**H-S27-1** 029118		10 off
Busbar 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 mm² 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. **Utilization category gG (gL)**	Price See price list	Part no. Article no. **Utilization category DZ**	Price See price list	Std. pack
Fuse links Z-D…/SE							
Rated operating voltage 500 V AC/400 V DC							
	2	DII E27	**Z-DII/SE-2A/GG** 112125		**Z-DII/SE-2A/DZ** 112028		5 off
	4	DII E27	**Z-DII/SE-4A/GG** 112126		**Z-DII/SE-4A/DZ** 112029		
	6	DII E27	**Z-DII/SE-6A/GG** 112127		**Z-DII/SE-6A/DZ** 112120		
	10	DII E27	**Z-DII/SE-10A/GG** 112128		**Z-DII/SE-10A/DZ** 112121		
	16	DII E27	**Z-DII/SE-16A/GG** 112129		**Z-DII/SE-16A/DZ** 112122		
	20	DII E27	**Z-DII/SE-20A/GG** 112130		**Z-DII/SE-20A/DZ** 112123		
	25	DII E27	**Z-DII/SE-25A/GG** 112131		**Z-DII/SE-25A/DZ** 112124		
	35	DIII E33	**Z-DIII/SE-35A/GG** 112135		**Z-DIII/SE-35A/DZ** 112132		
	50	DIII E33	**Z-DIII/SE-50A/GG** 112136		**Z-DIII/SE-50A/DZ** 112133		
	63	DIII E33	**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

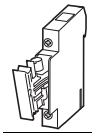
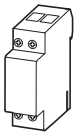
	Pole	Rated uninterrupted current I_u A	Fuse link Size	Part no. Article no.	Price See price list	Std. pack
Fuse switch-disconnectors						
Standard, empty 	1	63	D02, D01	**Z-SLS/NEOZ/1** 248235		12 off
	1 + N			**Z-SLS/NEOZ/1+N** 248237		6 off
	2			**Z-SLS/NEOZ/2** 248233		6 off
	3			**Z-SLS/NEOZ/3** 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						
• 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					
• For Z-SLS/NEOZ, Z-SLK/NEOZ, Z-SLS/CEK • Snap-fit on DIN rail • 1 set consists of: 3 switch conversion sets, 3 current codings, 1 plastic box • The fuse switch-disconnector is thus converted to a switch-disconnector.					
	–	63	**Z-SLS/TR-SET** 100660		12 off
Switch-on inhibits					
• For Z-SLS/NEOZ, Z-SLK/NEOZ, Z-SLS/CEK, Z-SLK/D0 • Only 1 inhibit required per device					
	Stop with metal lock	–	**Z-SLZ/SC** 268980		12 off
	Stop with plastic lock	–	**Z-SLZ/SP** 268981		12 off
Incoming double terminal					
• For Z-SLS/NEOZ, Z-SLK/NEOZ, Z-SLS/CEK, Z-SLK/D0 • 2 x 3 x 35 mm²					
	–	–	**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	D01	**Z-D01/SE-2** 288934		12 off
		4		**Z-D01/SE-4** 288935		
		6		**Z-D01/SE-6** 288936		
		10		**Z-D01/SE-10** 288937		
		13		**Z-D01/SE-13** 288938		
		16		**Z-D01/SE-16** 288939		
		20		**Z-D02/SE-20** 288940		
		25		**Z-D02/SE-25** 288941		
		32		**Z-D02/SE-32** 288942		
		35		**Z-D02/SE-35** 288943		
		40		**Z-D02/SE-40** 288944		
		50		**Z-D02/SE-50** 288945		
		63		**Z-D02/SE-63** 288946		
Adapter sleeves						
	• Snap-fit on DIN rail • In a plastic box in the color of the indicator	2	D01	**Z-D01/PE-2** 288909		12 off
		4		**Z-D01/PE-4** 288910		
		6		**Z-D01/PE-6** 288911		
		10, 13		**Z-D01/PE-10** 288912		
		20		**Z-D02/PE-20** 288913		
		25		**Z-D02/PE-25** 288914		
		35, 32		**Z-D02/PE-35** 288915		
		40		**Z-D02/PE-40** 288916		
		50		**Z-D02/PE-50** 288917		
	• D01 for fuse base D02 and fuse switch-disconnector D02	2	D02-D01	**Z-D02-D01/PE-2** 263112		
		4		**Z-D02-D01/PE-4** 263113		
		6		**Z-D02-D01/PE-6** 263150		
		10, 13		**Z-D02-D01/PE-10** 263151		
		16		**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

Fuse switch-disconnectors (empty)

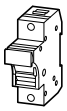
- Line protection of photovoltaic generator
- The trip indication signals that a fuse link has tripped:
  – 50 - 400 V flashing
  – 400 - 1000 V continuous light
- Rated operational voltage 1000 V DC
- Size 10 x 38, rated operational current 20 A DC
- For cylindrical fuse links for photovoltaic applications
- Sealable

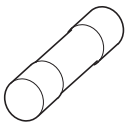
		Pole	Part no. Article no.	Price See price list	Std. pack
	Without flashing function	1	**C10-FD/20/1** 119024		12 off
	Without flashing function	2	**C10-FD/20/2** 119025		6 off
	With flashing function	1	**C10-FD/20/1-L** 119026		12 off
	With flashing function	2	**C10-FD/20/2-L** 119027		6 off

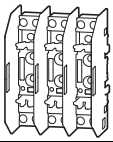
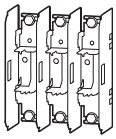
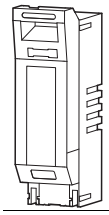
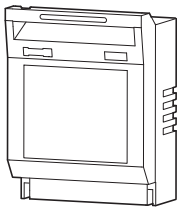
Cylindrical fuse links Z-C…/SE for photovoltaic applications

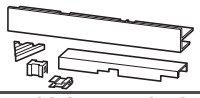
- Maximum DC rated operating voltage of fuse link 1.2 × V_{cc} of line (V_{cc} … open circuit voltage of line)
- Rated operational current I_n of Fuse link must be greater than or equal to 1.5 × I_{sc} (I_{sc} … short circuit current of PV module)

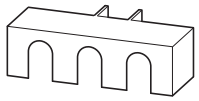
	Size	Rated operational current I_e A	Rated operating voltage U_e V DC	Part no. Article no.	Price See price list	Std. pack
	10 x 38	2	1000	**Z-C10/SE-2A/PV** 131700		10 off
	10 x 38	4	1000	**Z-C10/SE-4A/PV** 131701		
	10 x 38	6	1000	**Z-C10/SE-6A/PV** 122009		
	10 x 38	8	1000	**Z-C10/SE-8A/PV** 122070		
	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		

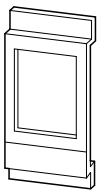
		Pole	**Part no.** Article no.	**Price** See price list	Std. pack
Fuse switch-disconnectors, empty					
• For cylindrical fuses					
	Size 14 x 51, to 50 A				
	Without flashing function	1	**VLC14-1P** 285361		12 off
		1 + N	**VLC14-1P+N** 285362		6 off
		2	**VLC14-2P** 285363		6 off
		3	**VLC14-3P** 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				
	Without flashing function	1	**VLC22-1P** 285366		3 off
		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	Max. fuse link 690 V A	Size	**Part no.** Article no.	**Price** See price list	Std. pack	**Notes**
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	–

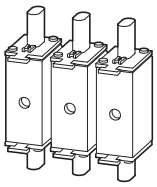
	Rated operational voltage U_e V	Fuse link Size	For use with	**Part no.** Article no.	**Price** See price list	Std. pack
Set of connecting links						
	–	00	GSTA00-160-1P	**V-GSTA00-1P** 228173		1 off
Cover with fuse monitoring						
• One green operation indicator LED, three red error indication LEDs (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 mm²						
	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) mm² Cu/Al	GSU1, GST…1	**PSK1** 038734		1 off
	Terminal range 1 x (120 - 240) mm² Cu/Al	GSU2, GST…2	**PSK2** 043480		1 off
	Terminal range 1 x (120 - 300) mm² 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) mm² Cu/Al	GSU1, GST…1	**PSK12** 041107		1 off
	Terminal range 2 x (120 - 150) mm² Cu/Al	GSU2, GST…2	**PSK22** 045853		1 off
	Terminal range 2 x (120-240) mm² 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

LV h.b.c. fuse links

- Insulation body made from Steatite/Corderite
- Copper contact blade with silver coating, corrosion proof
- Pivoting and central indicator, live grip tabs
- Selectivity from 1:1.6



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

	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	1.5	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	1.5	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

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

	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_u

	Characteristic C			Characteristic D		
	Pole			Pole		
	1	2	3	1	2	3
I_n [A]	P [W]	P [W]	P [W]	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

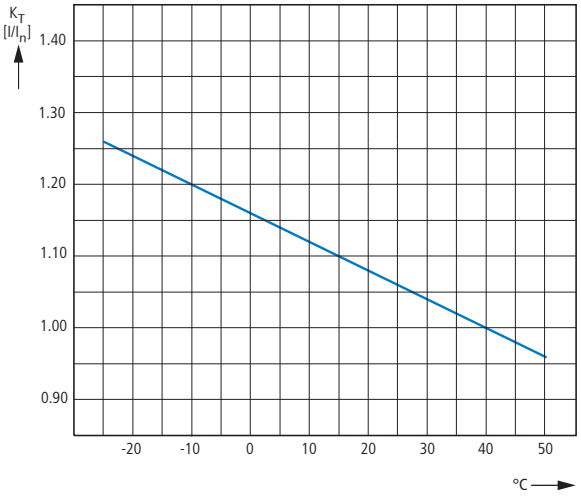
Heat dissipation FAZ-...-NA, FAZ-...-RT

Depending on rated operational current I_u

	Characteristic C			Characteristic D		
	Pole			Pole		
	1	2	3	1	2	3
I_n [A]	P [W]	P [W]	P [W]	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	1.8	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

Influence of the ambient temperature on the tripping behavior

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



K_T = rated diversity factor

PDIM leakage current meters

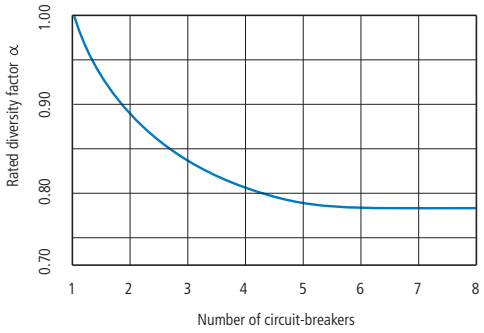
Contour and rail mounting compatible with other devices of the P series
Freely selectable rail arrangement top and bottom
Free terminal compartment despite fitted busbar
Power supply through ordering of the four conductors
Electronic operation (independent of mains voltage)

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 $I_{\Delta n}$.
Yellow LED lit on 30 – 50 % of set $I_{\Delta n}$.
Red LED lit on > 50 % of set $I_{\Delta n}$.
The yellow LED goes out when tripped if the measured fault current < 30 % of the set $I_{\Delta n}$.
The red LED goes remains lit when tripped, even if when the measured fault current < 50 % of the set $I_{\Delta n}$.
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 % $I_{\Delta n}$ 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

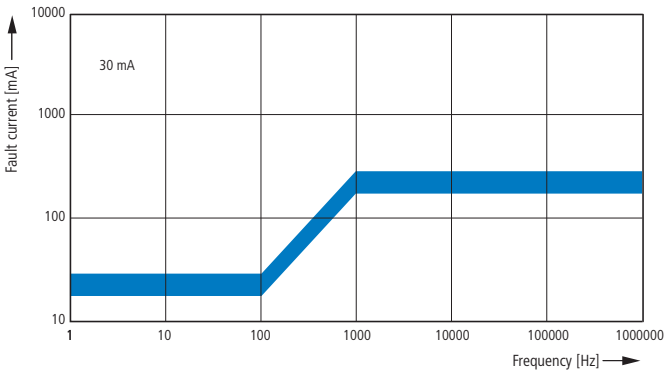
	Mains frequency f [Hz]						
	16 ⅔	50	60	100	200	300	400
$I_{MA}(f)/I_{MA}$ (50 Hz) [%]	91	100	101	106	115	134	141

Residual-current devices

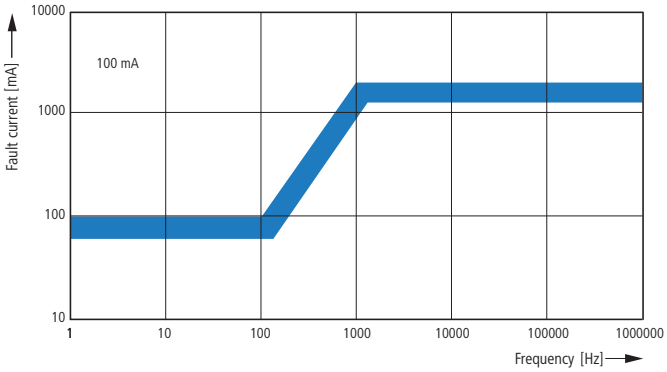
FI-...-B

Frequency response of the tripping current

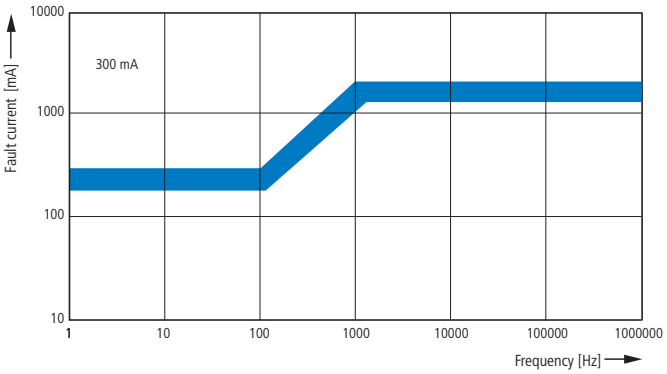
30 mA



100 mA



300 mA

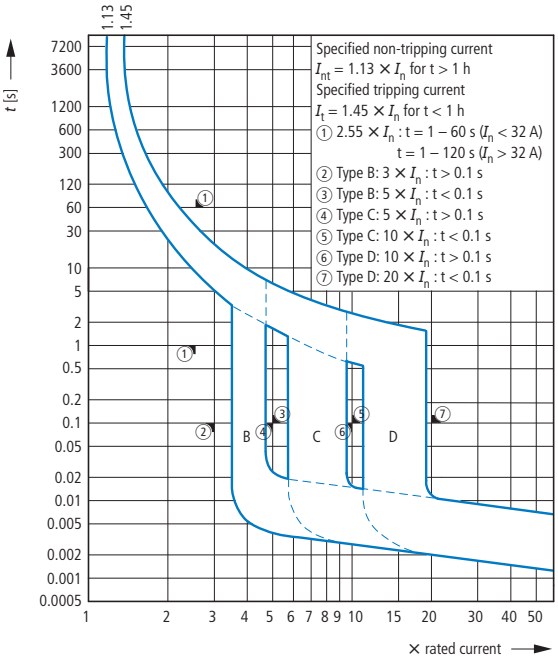


Miniature circuit-breakers (MCB)

FAZ...

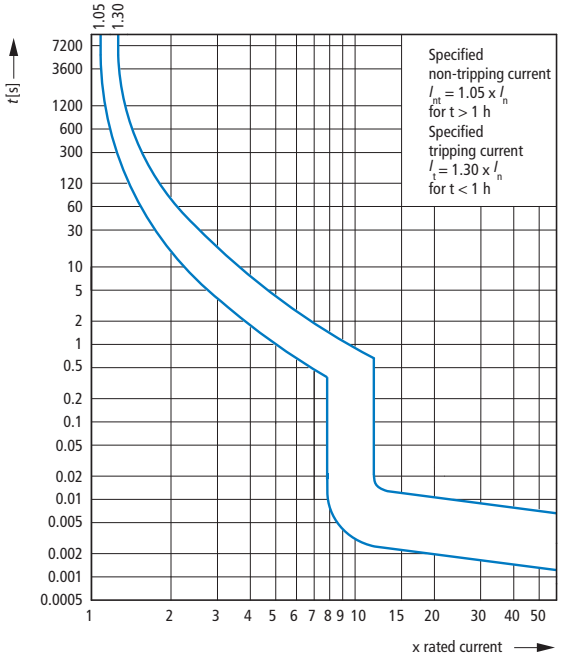
Tripping characteristics at 30 °C:

B, C, D to IEC/EN 60898



Tripping characteristics at 30 °C:

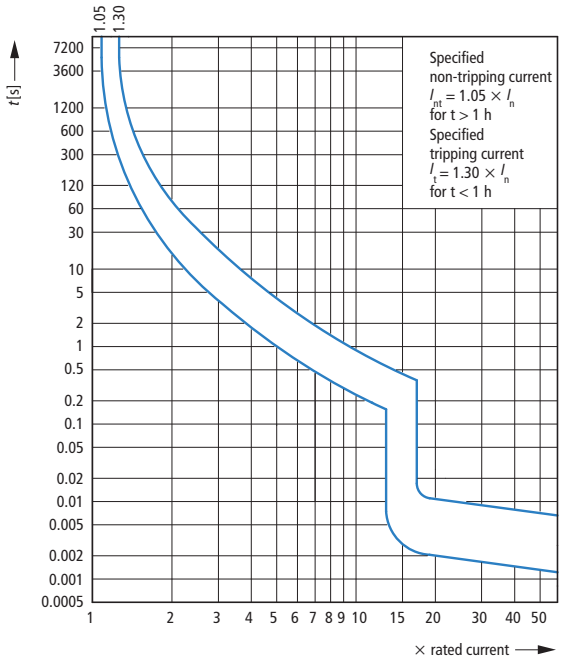
K according to IEC/EN 60947



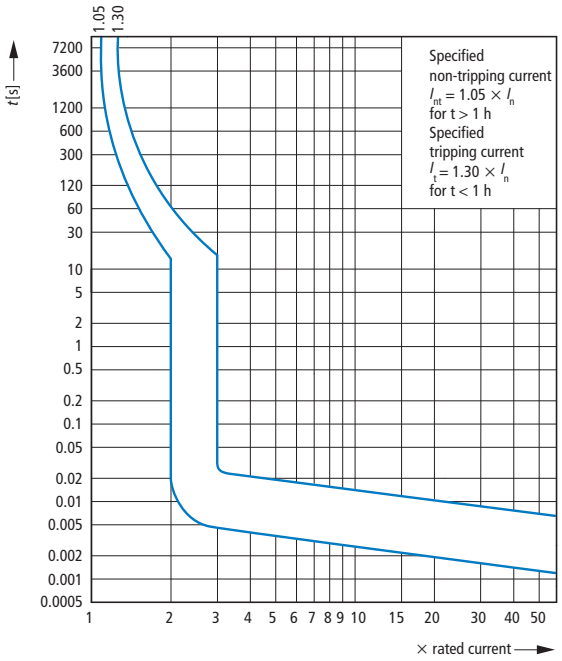
Miniature circuit-breakers (MCB)

FAZ...

Tripping characteristics at 30 °C:
S according to IEC/EN 60947

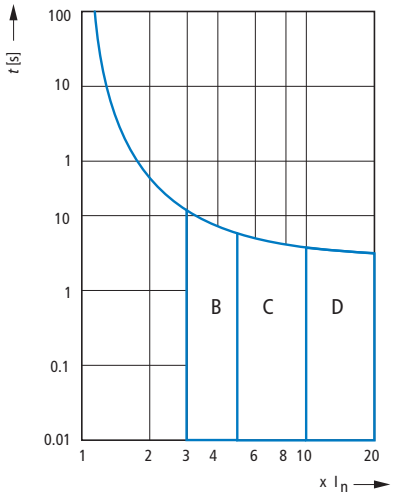


Tripping characteristics at 30 °C:
Z according to IEC/EN 60947



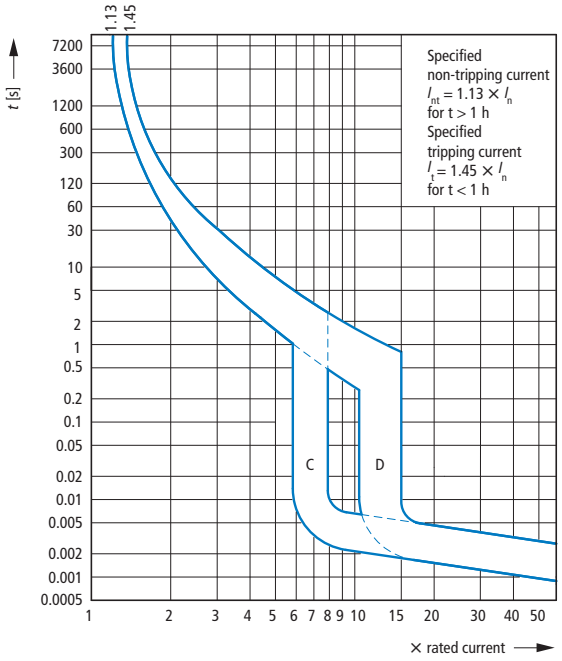
FAZT

Tripping characteristics FAZ at 30 °C
B, C, D to IEC/EN 60898



AZ...

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



Tripping characteristics for miniature circuit-breakers

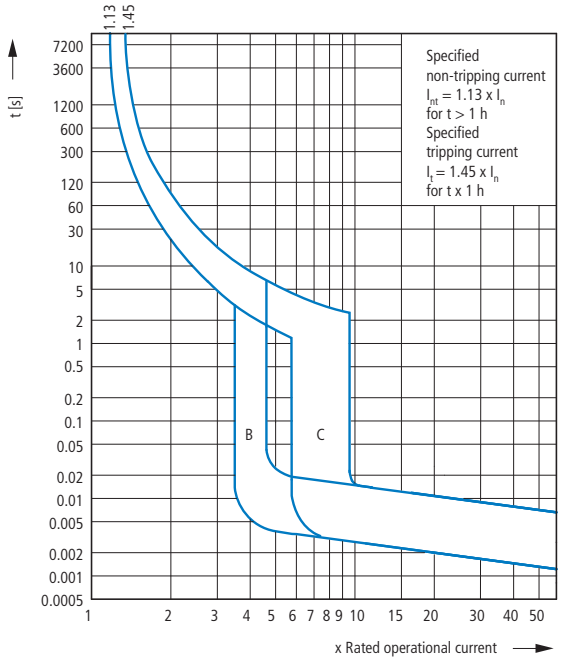
PKNM, mRB, FAZ-NA, FAZ-RT

Combination switches

PKNM...

Tripping characteristics at 30 °C:

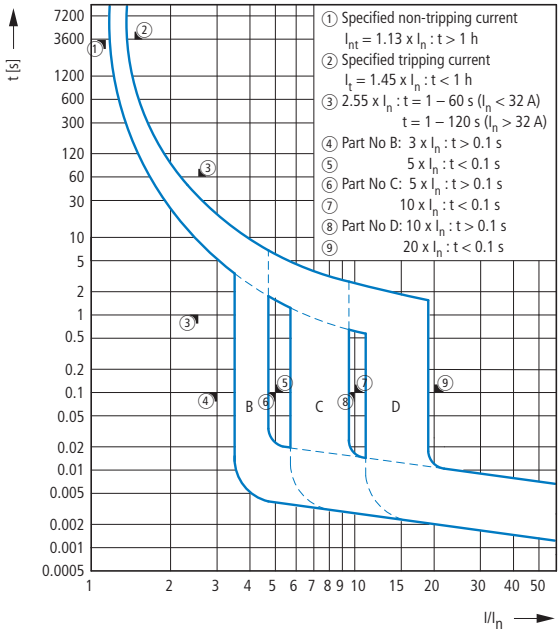
B, C according to IEC/EN 61009



mRB6..., mRB4...

Tripping characteristics

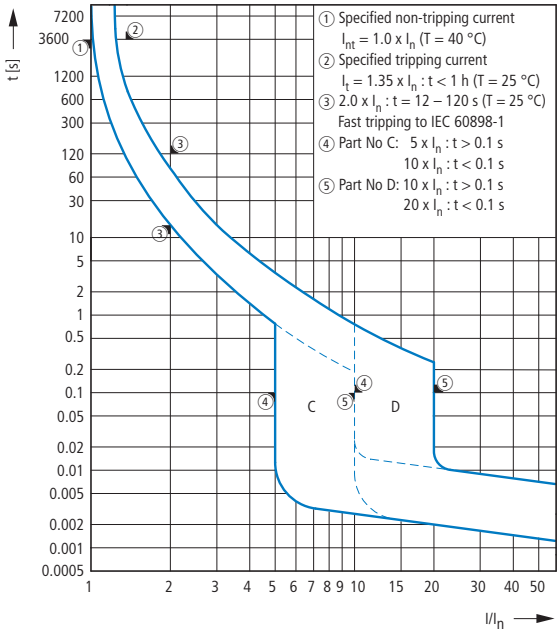
B, C, D according to IEC/EN 61009



Miniature circuit-breakers (MCB)

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

Tripping characteristics according to UL 489

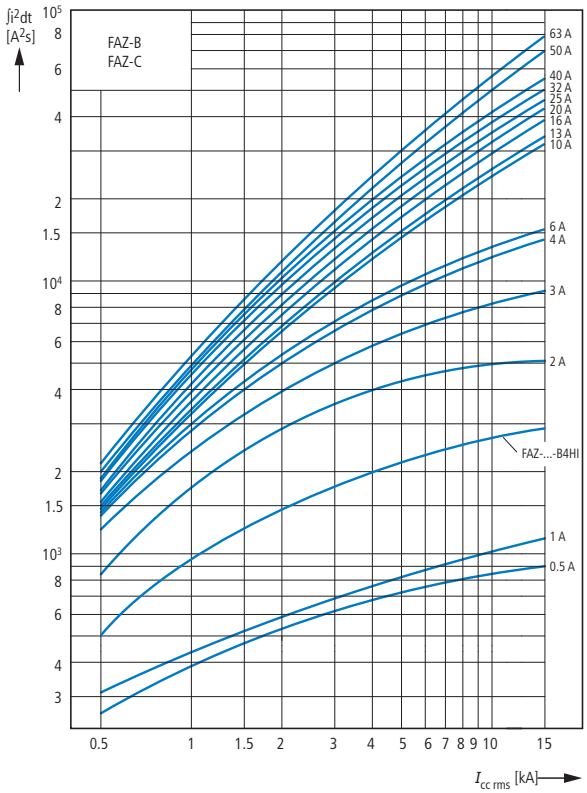


Miniature circuit-breakers (MCB)

FAZ...

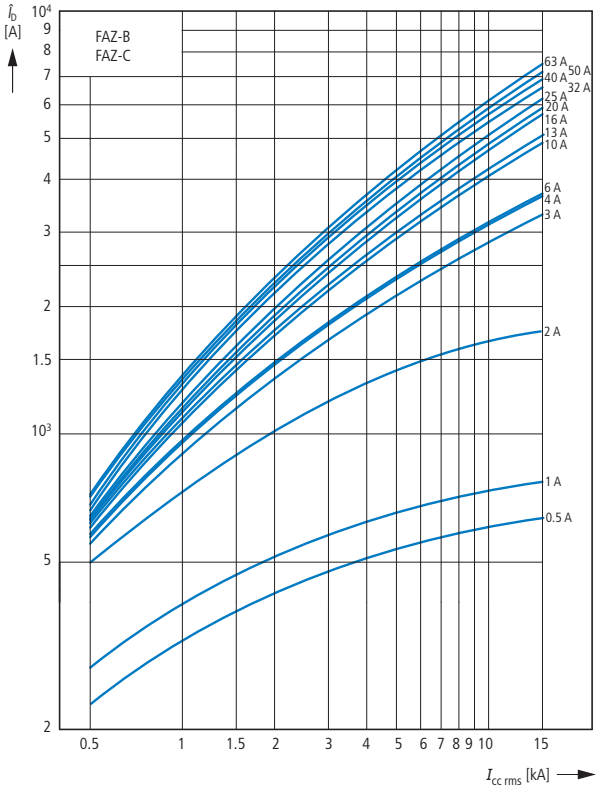
Let-through energy I^2t

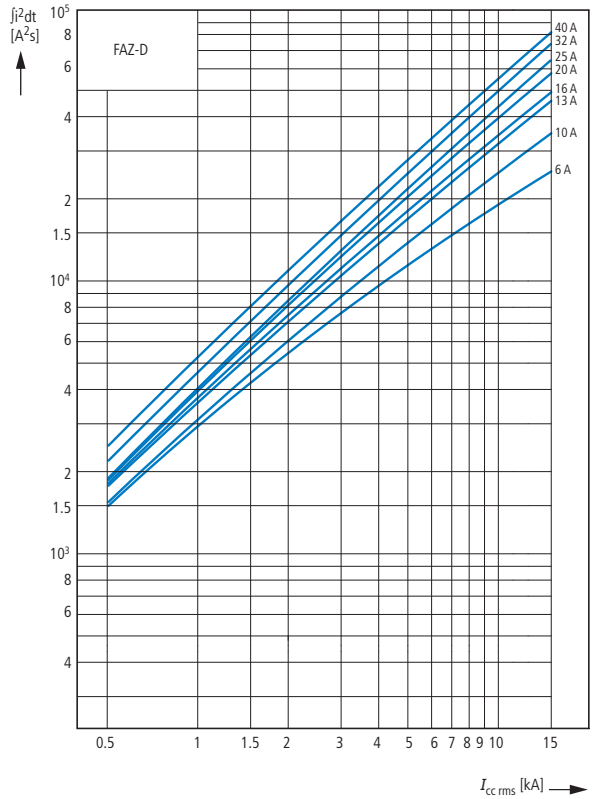
According to IEC/EN 60898

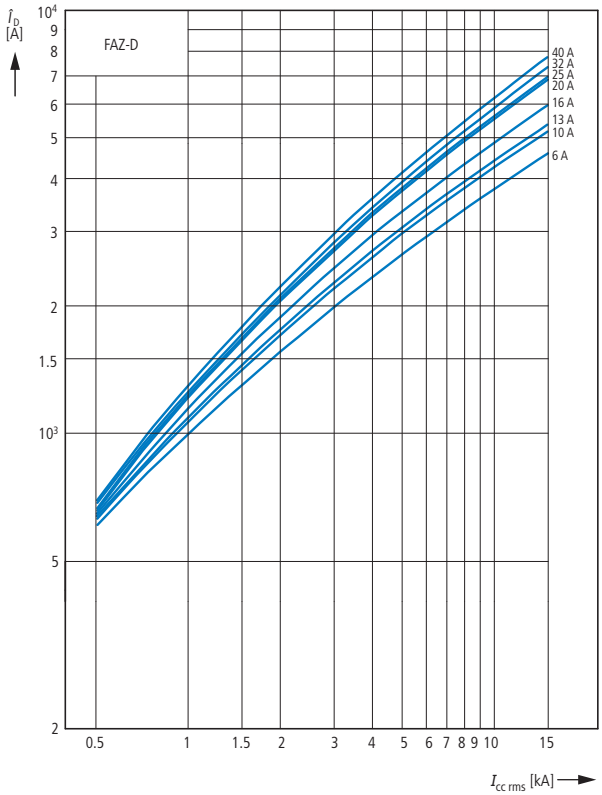


Let-through current I_D

According to IEC/EN 60898



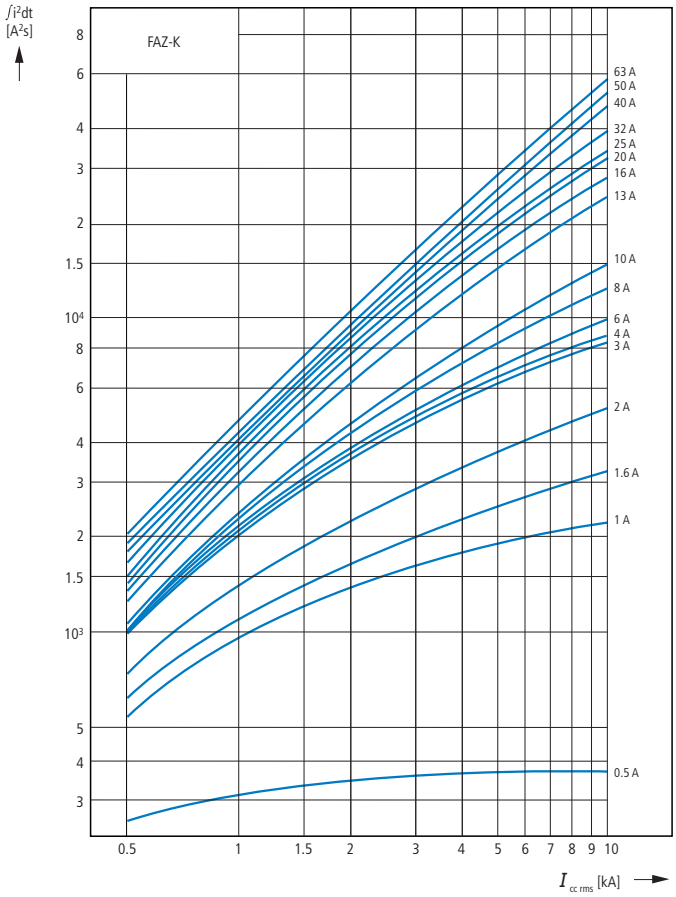




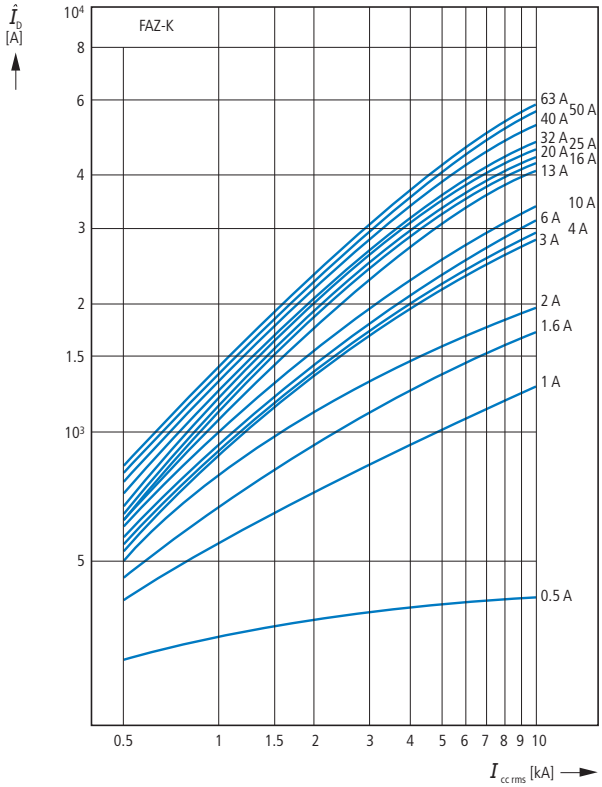
Miniature circuit-breakers (MCB)

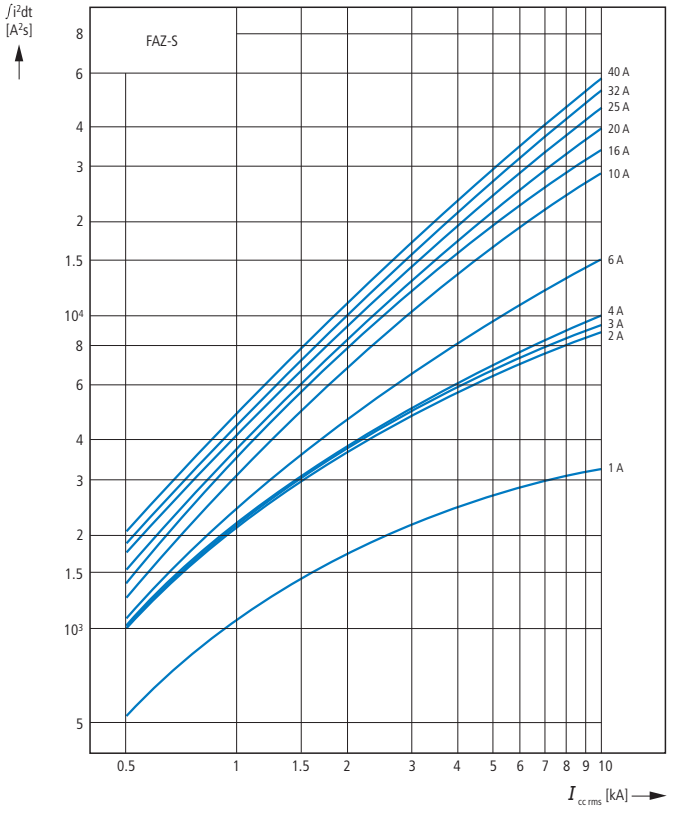
FAZ...

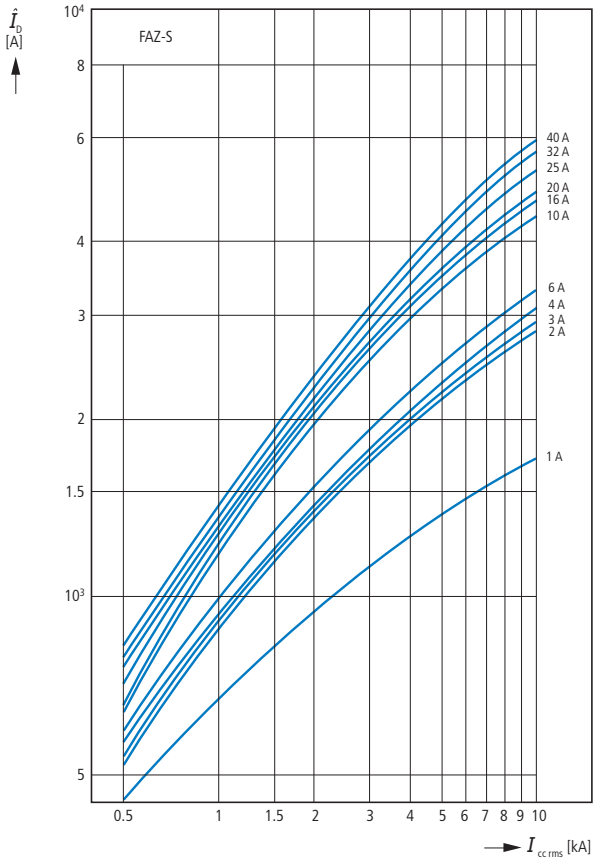
Let-through energy I^2t
According to IEC/EN 60898



Let-through current I_D
According to IEC/EN 60898



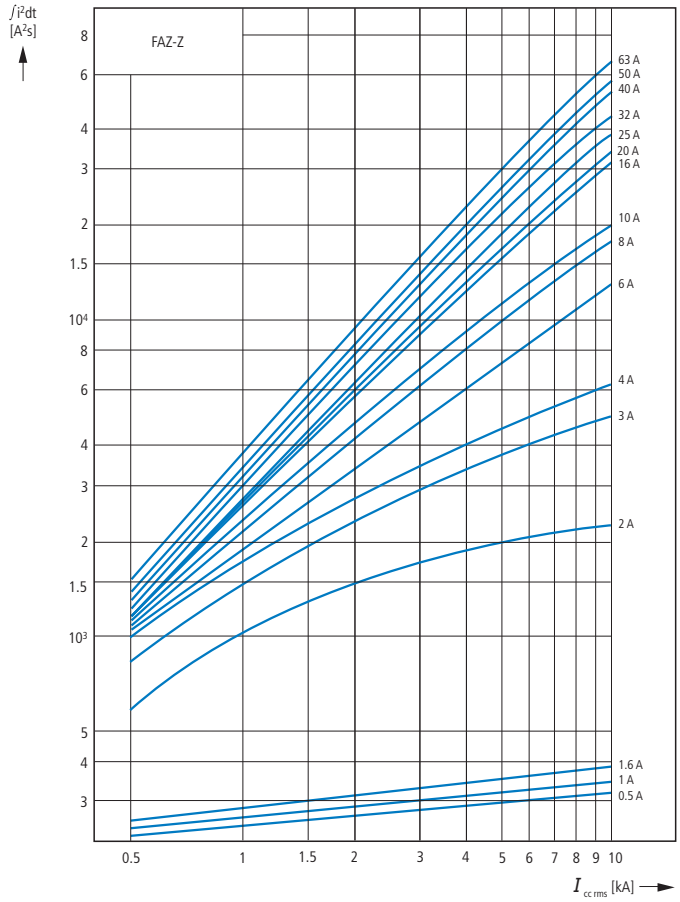




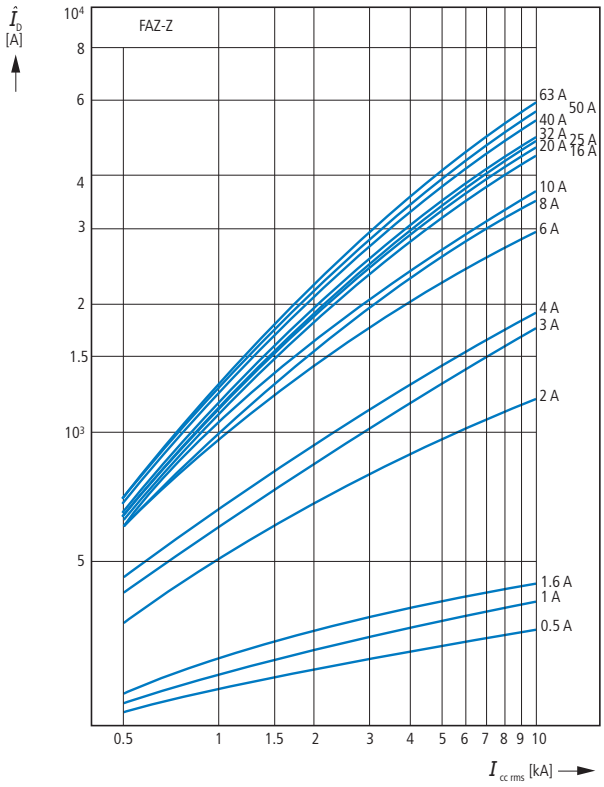
Miniature circuit-breakers (MCB)

FAZ...

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

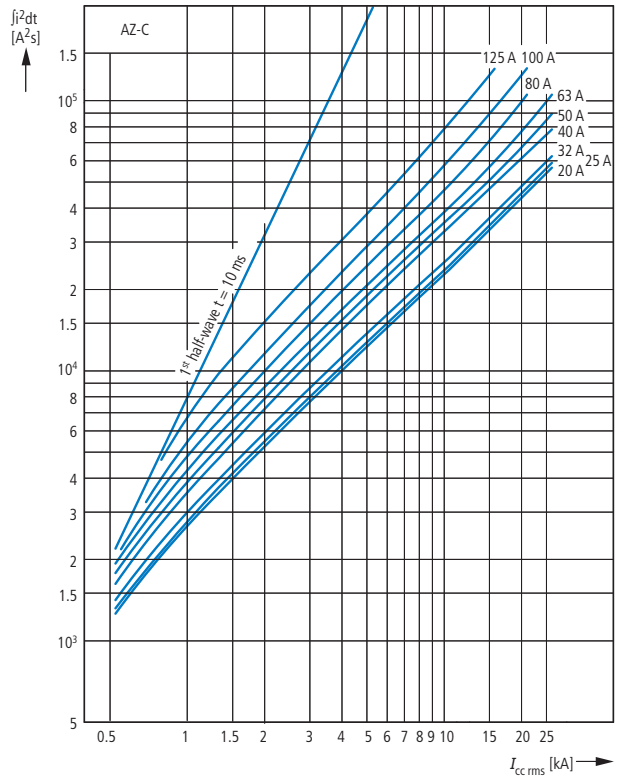


Let-through current I_D
According to IEC/EN 60898

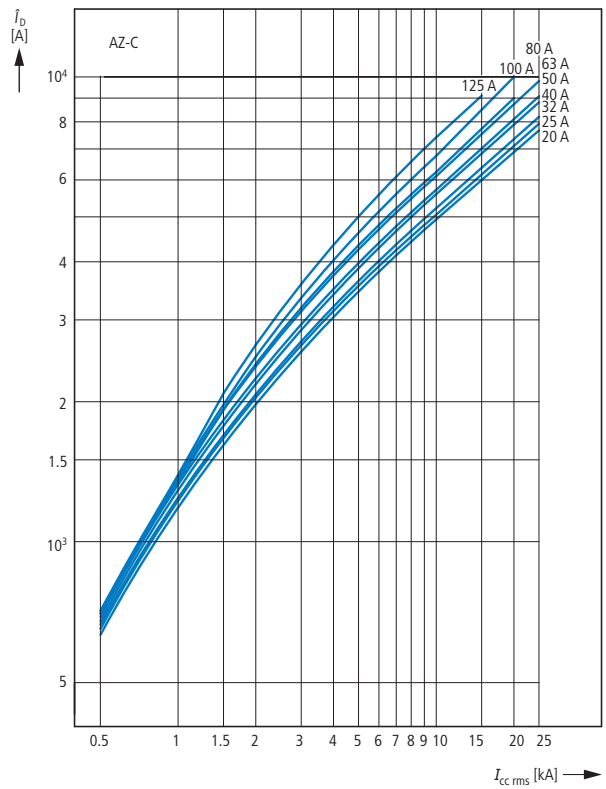


AZ...

Let-through energy I^2t



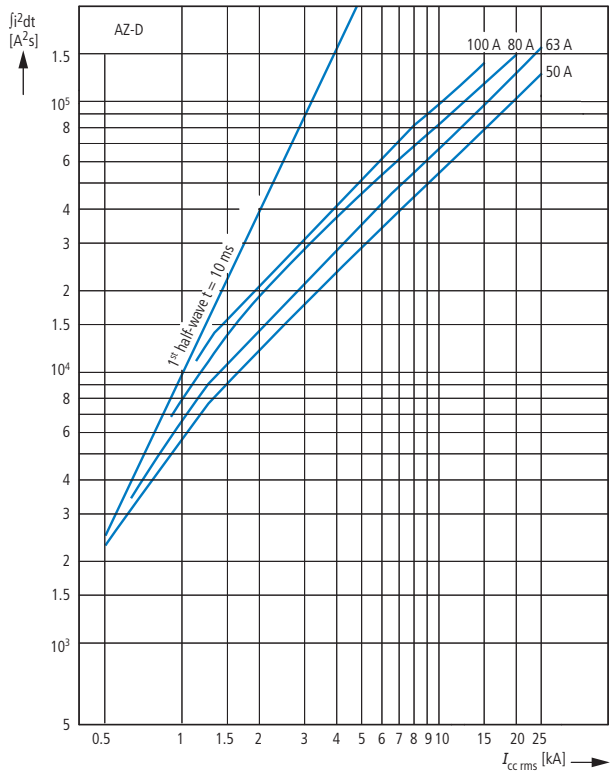
Let-through current I_D



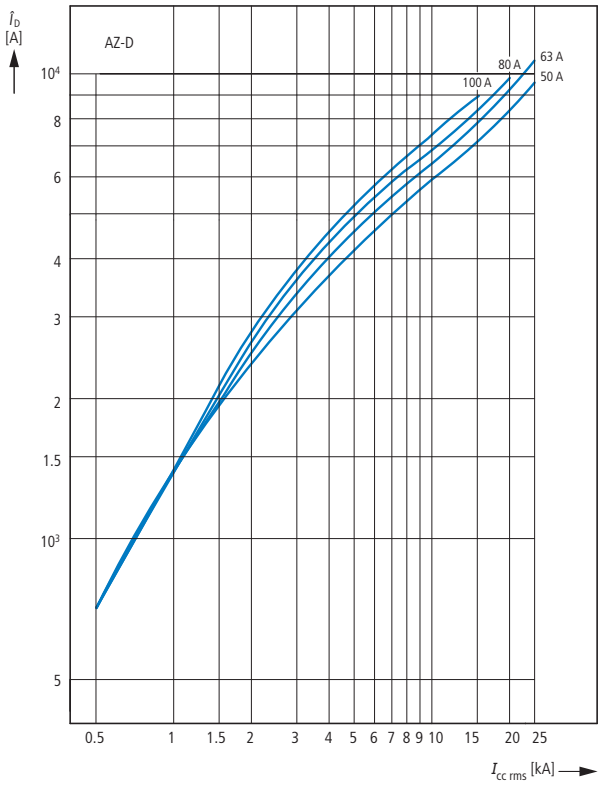
Miniature circuit-breakers

AZ...

Let-through energy I^2t



Let-through current I_D

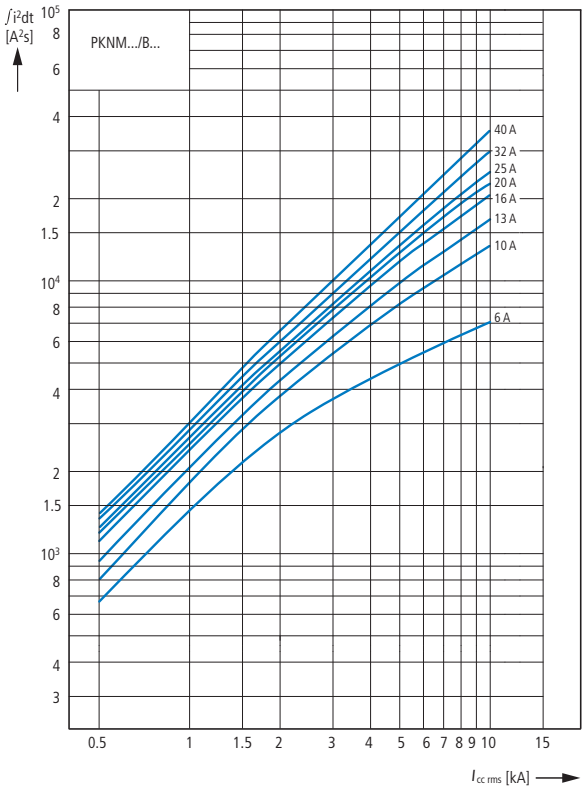


Combination switches

PKNM-...

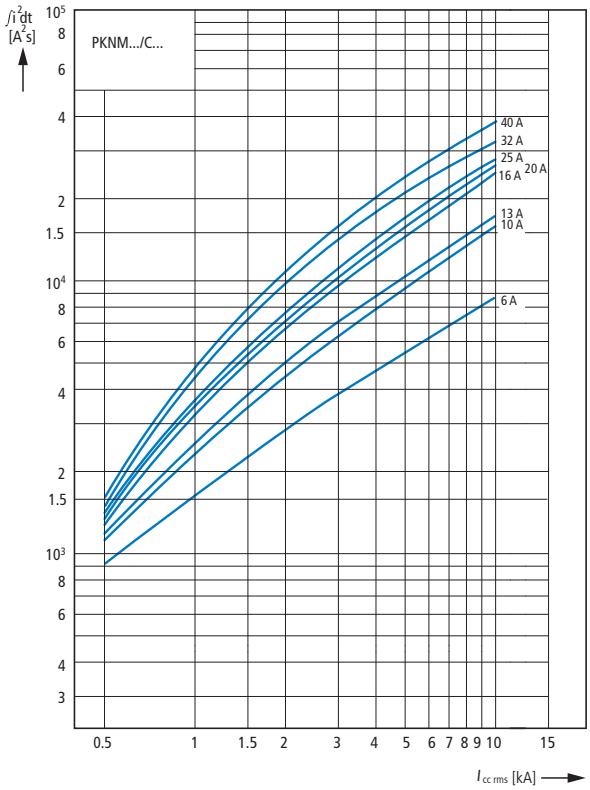
Let-through energy I^2t

According to IEC/EN 60898



Let-through current I_D

According to IEC/EN 60898

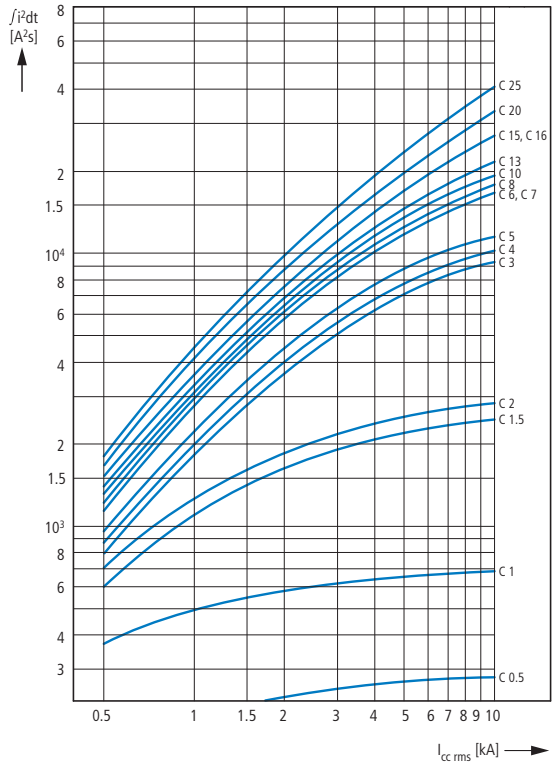


Miniature circuit-breakers (MCB)

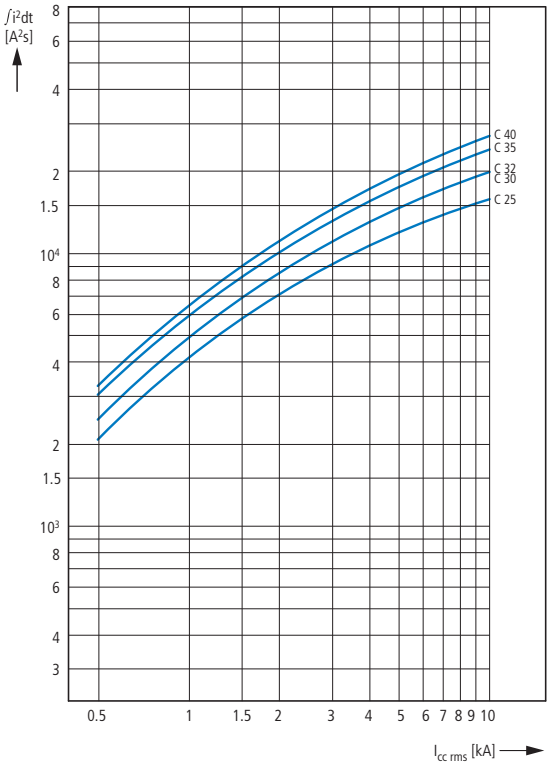
FAZ-...NA, FAZ-...RT

Let-through energy I^2t

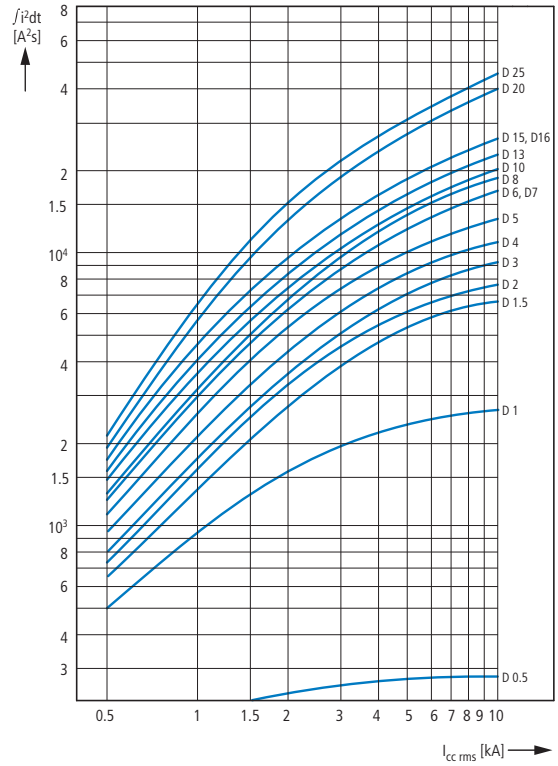
Characteristic C (0.5 - 20 A), 277 V



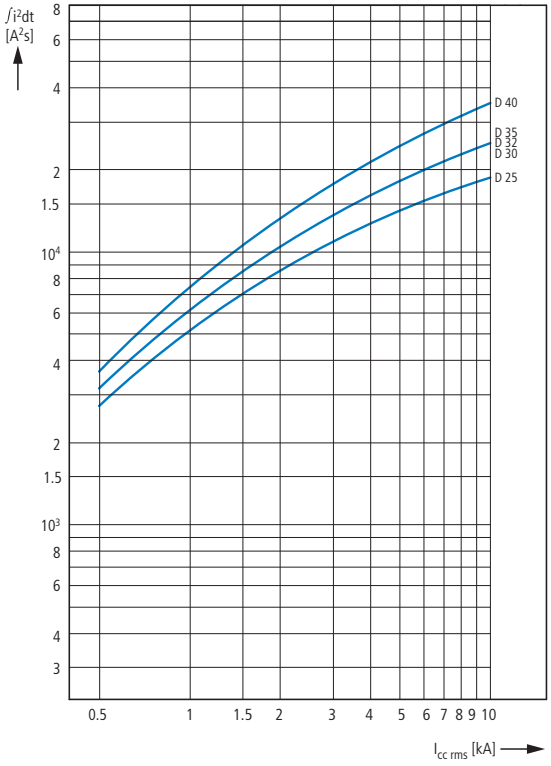
Characteristic C (25 - 40 A), 240 V



Characteristic D (0.5 - 20 A), 277 V



Characteristic D (25 - 40 A), 240 V



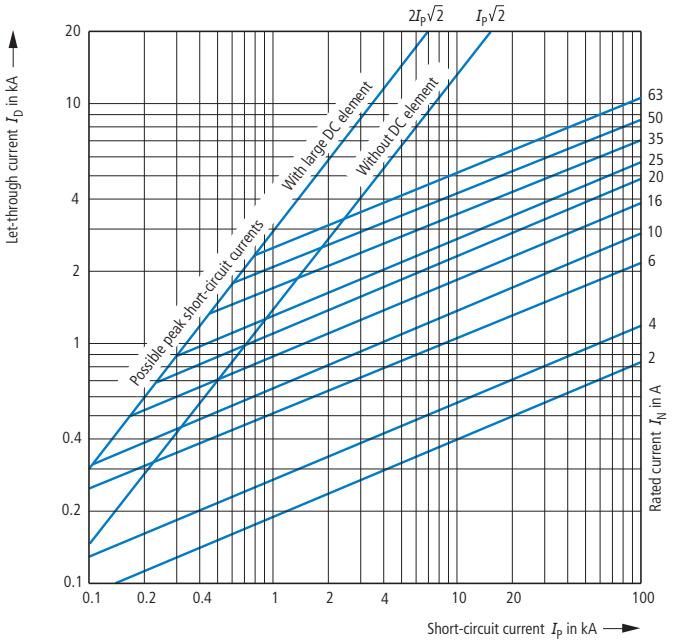
Let-through characteristics miniature circuit-breakers

Z-DO, Z-NH

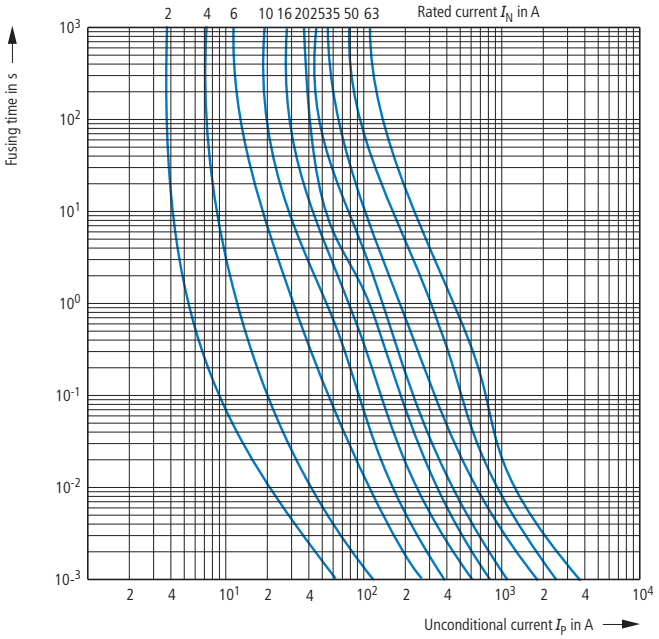
Fuse links

Z-DO.../S...

Let-through current



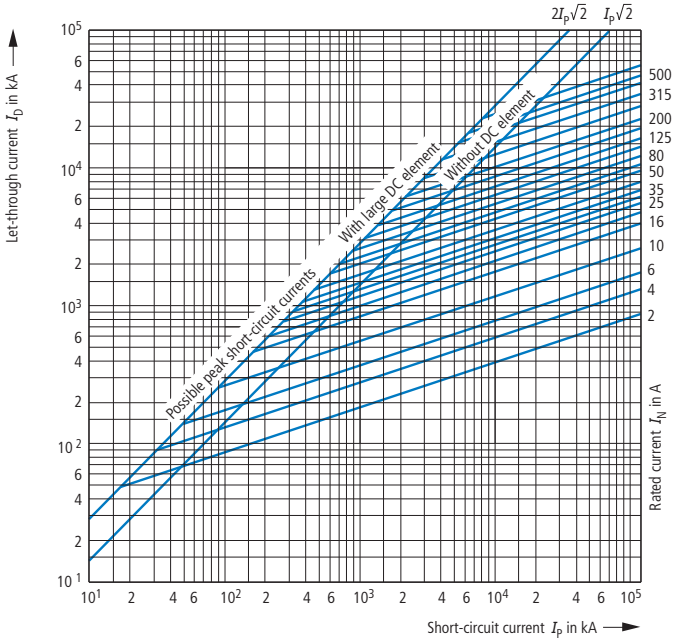
Time/current characteristics



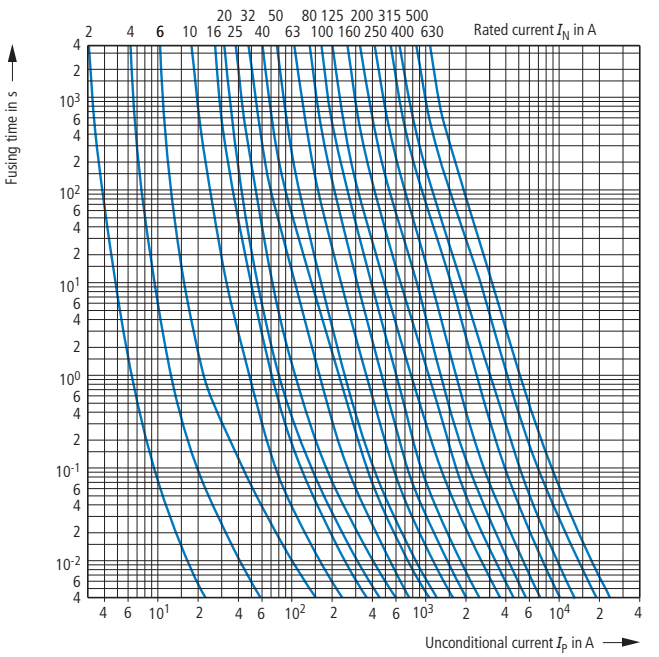
LV h.b.c. fuse links

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	230/400	-	230	230/400
		V DC	48 (per pole)	250 (per pole)	48 (per pole)	60 (per pole)
Rated switching capacity		kA	15	10	6	25
Operational switching capacity		kA	7.5	-	-	20
Characteristic			B, C, D, K, S, Z	C	B, C	Similar: D, C
Max. back-up fuse		A gL/gG	125	100	100	200
Selectivity class			3	3	3	Compliant with Class 3
Lifespan		Operations	> 10000	> 10000	> 4000	> 10000
Direction of incoming supply			Any	Polarized	Any	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			Lift 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	240/415
		V DC	60 V per pole; up to two poles in series
Rated frequency	*f*	Hz	50/60
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

			PKNM	FIM	AZFIMP	FI ≦ 100 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 µ) non-delayed surge resistant			Non-delayed, S	
Rated operational voltage	U_e	V AC	230	230/400	230/400	230/400	230/400
Operating limit values		V AC	196 - 253	196 - 440	196 - 440	184 - 440	184 - 440
Rated frequency	f	Hz	50				
Rated fault currents	$I_{\triangle n}$	mA	30, 300	30, 300	30, 300	30, 100, 300, 500	30, 100, 300, 500
Rated non-tripping current			0.5 x $I_{\triangle n}$	0.5 x $I_{\triangle n}$	0.5 x $I_{\triangle n}$	0.5 x $I_{\triangle n}$	0.5 x $I_{\triangle n}$
Rated fault switching capacity	$I_{\triangle n}$	A	-	-	-	I_n = 16-40 A: 500 I_n = 63 A: 630 I_n = 80 A: 800 I_n = 100A: 1000	I_n = 125 A: 1250 for type B: 60, 80 A: 800 40 A: 500 125 A: 1250
230 V		kA	6	-	-	-	-
400 V		kA	3	-	-	-	-
Sensitivity			DC and pulsed current				Pulsed current and AC/DC
Rated switching capacity	I_{cn}	kA	10	As fitted FAZ	As fitted AZ	10	10
Operational switching capacity	I_{cs}	kA	-	As fitted FAZ	-	-	-
Rated ultimate 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	40 - 125
Rated impulse withstand voltage	U_{imp}	kV	6 (1.2/50 µs)	-	4 (1.2/50 µs)	6	6
Characteristic			B, C	-	-	-	-
Maximum back-up fuse as short-circuit protective device		A gL	100	-	-	I_n = 16 - 63 A: 63 I_n= 80 A: 80 I_n= 100 A: 100	I_n = 125 A: 125 for type B: I_n ≦ 80: 100 I_n = 125: 125
Selectivity class			3	-	-	-	-
Lifespan							
Electrical		Operations	> 4000	-	> 1500	> 4000	> 2000
Mechanical		Operations	-	-	> 10000	> 20000	> 5000
Mechanical							
Standard front dimension		mm	45	45	45	45	45
Device height		mm	80	90	90	80	85
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)	70 (4 SU)
Mounting			-	Permanently screw-connected to FAZ	Screwed on to AZ (2 to 4 pole)	IEC/EN 60715 top-hat rail	IEC/EN 60715 top-hat rail
Protection type							
Circuit-breaker			IP20	-	-	-	-
Enclosed			IP40	IP40	IP40	IP40	IP40
Terminals top and bottom			Twin-purpose terminals	Lift terminals	Lift terminals	Twin-purpose terminals	Twin-purpose terminals
Terminal capacity							
Solid		mm^2	1 x 25	1 x (1 - 25)	2.5 - 50	1.5 - 35	1.5 - 50
Flexible		mm^2	-	1 x (0.75 - 16)	-	2 x 16	2 x (1.5 - 16)
Thickness of busbar material		mm	0.8 - 2	0.8 - 2	-	0.8 - 2	0.8 - 2
Admissible ambient temperature range		°C	-25 - +40	-25 - +40	-25 - +40	-25 - +40	-25 - +40
Climatic proofing			IEC/EN 61009	IEC/EN 61009	IEC/EN 60068-2	IEC/EN 61008	IEC/EN 61008

			mRB6...	**mRB4...**
Electrical				
Standards			IEC/EN 61009	IEC/EN 61009
Tripping		A	250 (8/20µ) non-delayed surge resistant	
Rated operating voltage	U_e	V AC	230/400	230/400
Rated frequency	f	Hz	50	50
Rated fault currents	$I_{\Delta n}$	mA	30, 100, 300	30, 100, 300
Rated fault non-tripping current			0.5 x $I_{\Delta n}$	0.5 x $I_{\Delta n}$
Sensitivity			DC and pulsed current	
Rated switching capacity	I_{cn}	kA	6	4.5
Rated operational current	I_e	A	6 - 25	6 - 25
Rated impulse withstand voltage	U_{imp}	kV	4 (1.2/50 µs)	4 (1.2/50 µs)
Characteristic			B, C, D	C, D
Maximum back-up fuse as short-circuit protective device		A gL	100	100
Selectivity class			3	3
Lifespan				
Electrical		Operations	> 4000	> 4000
Mechanical		Operations	> 20000	> 20000
Mechanical				
Standard front dimension		mm	45	45
Device height		mm	80	80
Terminal protection			Busbar tag shroud to VBG4	
Mounting width		mm	70 (4 SU)	70 (4 SU)
Mounting			Tristable slide catch allows removal from an existing assembly.	
Protection type				
Circuit-breaker			IP20	IP20
Enclosed			IP40	IP40
Terminals top and bottom			Twin-purpose terminals	Twin-purpose terminals
Terminal capacity				
Solid		mm^2	1 - 25	1 - 25
Thickness of busbar material		mm	0.8 - 2	0.8 - 2
Admissible ambient temperature range		°C	-25 - +40	-25 - +40
Climatic proofing			According to IEC 68-2 (25 – 55 °C, 90 – 95 % rel. humidity)	

			Z-CC/2CO
Electrical			
Power supply		VDC	12 - 24 (≧ 10 - ≦ 30)
Power consumption		W	1.5 - 6
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	45
Device height		mm	97
Mounting width		mm	105
Mounting			Quick attachment for top-hat rail EN 50022
Protection type			
Enclosed			IP40

			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	230/400, 240/415
Rated frequency	f	Hz	50/60
Operational voltage electronic		V AC	50 - 254
Operational voltage test circuit		V AC	184 - 440
Rated fault currents	$I_{\Delta n}$	mA	30, 300
Sensitivity			DC and pulsed current
Rated insulation voltage	U_i	V	440
Rated impulse withstand voltage	U_{imp}	kV	4 (1.2/50 µs)
Rated short-circuit strength	I_{nc}	kA	10
Surge current capacity			
Type G, G/A, R, U (30 mA)		kA	3 (8/20 µs) surge-proof
Type S/A, U (except 30 mA)		kA	Part no. 5 (8/20 µs) selective and surge-proof
Electrical isolation			> 4 mm contact spacing
Max. admissible back-up fuse			Short-circuit and overload
I_n = 16 - 63 A		A gG/gL	63
I_n = 80 A		A gG/gL	80
I_n = 100 A		A gG/gL	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	$I_{\triangle n}$	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 A		A gG/gL	Short-circuit: 63 overload: 40
I_n = 100 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 % $I_{\triangle n}$ 2: > 50 % $I_{\triangle n}$
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

			FAZ-XHIN11	FAZ-XHINW1	FAZ-XAM002	FAZ-XAA-C	FAZ-XUA
Electrical							
Rated operating voltage	U_e	V AC	250	250	250	-	115, 230, 400
Contact function			1 N/O + 1 NC	1 C	2 C	-	-
Voltage range		V AC	-	-	-	12 - 110 110 - 415	-
Closing threshold	x U_n		-	-	-	-	0.8
Tripping threshold	x U_n		-	-	-	-	0.5
Rated frequency	f	Hz	50/60	50/60	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	45	45
Device height		mm	80	80	80	80	80
Mounting width		mm	8.8 (0.5 SU)	8.8 (0.5 SU)	8.8 (0.5 SU)	17.5 (1 SU)	17.5 (1 SU)
Mounting			Max. 2 × on switching device	Max. 2 × on switching device	On switching device	IEC/EN 60715 top-hat rail	IEC/EN 60715 top-hat rail
Protection type							
Enclosed			IP40				
Terminal protection			Busbar tag shroud to BGV A2				
Terminals			Lift terminals	Lift terminals	Lift terminals	Twin-purpose terminals	Twin-purpose terminals
Terminal capacity							
Solid		mm^2	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5	1 - 2.5	2 x (1 - 2.5)
Flexible		mm^2	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5	1 - 2.5	2 x (1 - 2.5)
Tightening torque of terminal screws		Nm	≦ 1.2	≦ 1.2	0.8 - 1.0	2.4	0.8

				AZ-XHI11	AZ-XAA	FI-XHI11 ≦ 100 A	FIPA-XAM011 125 A FI and Type B
Electrical							
Contact function				1 N/O + 1 NC	-	1 N/O + 1 NC	1 C/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	-	24/50	12/100
Rated operational current							
AC-11							
	230 V	I_e	A	6	-	6	6
AC-13							
	250 V	I_e	A	6	-	6	-
	400 V	I_e	A	2	-	2	-
DC-11							
	230 V	I_e	A	4	-	-	1
DC-13							
	60 V	I_e	A	4	-	4	-
	110 V	I_e	A	2	-	2	-
	230 V	I_e	A	0.5	-	0.5	-
Rated insulation voltage		U_i	V AC	440	440	440	440
Minimum operating voltage per contact		U_{min}	V DC	-	-	-	-
Rated impulse withstand voltage		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	6	6
Lifespan							
Mechanical			Operations	> 6000	> 4000	> 6000	-
Inrush current							
AC			A	-	38	-	-
Duty factor AC			ms	-	2.1	-	-
DC			A	-	34	-	-
Duty factor DC			ms	-	2	-	-
Mechanical							
Standard front dimension			mm	45	45	45	45
Device height			mm	90	90	90	90
Mounting width			mm	8.8 (0.5 SU)	17.5 (1 SU)	8.8 (0.5 SU)	8.8 (0.5 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)	1 x 2.5 2 x 1.5
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)	1 x 2.5 2 x 1.5
Tightening torque of the terminal screws			Nm	0.8	3	0.8	0.8

Power meter

KWZ-3PH

			KWZ-3PH	KWZ-3PH-65
Electrical				
Rated operating voltage	U_e	V AC	230 - 240/400-415	
Voltage range		V AC	110 - 254/190-440	
Rated operational current	I_e	A	1, 5	10
Max. current	I_{max}	A	6	63
Rated frequency	*f*	Hz	50, 60	
Limiting frequency		Hz	47 - 63	
Own consumption per phase (current path)		VA	≦ 0.5 (each phase)	≦ 4 (each phase)
Overload, short-term			20 x $I_{max.}$ / 0.5 s	30 x $I_{max.}$ / 10 ms
Auxilliary voltage			From measurement	
Input signal			Sine-shaped	
Accuracy class			1	
LED signal			1 pulse / 0.1 Wh	1 pulse / Wh
Pulse output				
Rated value			Max. 110 V AC/DC, 50 mA	
Switching contact (potential-free)			Optocoupler	
Pulse value (selectable)			1 pulse / 10 Wh, 100 Wh, 1 kWh, 10 kWh optional 1Imp. / 10 VArh, 100 VArh, 1 kVArh, 10 kVArh	1 pulse / 1 Wh, 10 - 100 Wh, 1 kWh, 10 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	Network types (3-phase, 3- or 4-conductor), Partial energy and double tariff, mean performance, pulse output
Overvoltage category			III	
Insulation voltage (phase - phase)		V	450	300
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		mm	45	
Device height		mm	89	
Mounting width		mm	71.2	
Weight		g	260	
Display			LCD 8 digit	
Digit height		mm	6	
Maximum display			Adjustable	999999.99 kWh
Resolution			Adjustable	10 W
Measurement display			arranged into 6 pages	arranged into 7 pages
Mounting			Quick attachment for top-hat rail IEC/EN 60715	
Protection type device front/ terminals			IP52/IP20	
Terminals top and bottom			Screw terminals	
Terminal capacities				
Current connections				
Solid		mm^2	0.05 - 4	1 - 10
Stranded		mm^2	0.05 - 2.5	1 - 13
Voltage connections				
Solid		mm^2	0.05 - 4	1 - 4
Stranded		mm^2	0.05 - 2.5	1 - 3
Admissible relative humidity			Also suitable for tropical conditions	
Reference temperature		°C	23 ± 2	
Temperature range		°C	-5 - +55	
Storage and transportation temperature range		°C	-25 - +70	
Pollution degree			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	5
Function			Automatic control	
Function selector			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		mm^2	2 x 1.5 1 x 2.5	2 x 1.5 1 x 2.5
Flexible		mm^2	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	> 20000
Mains voltage connection			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

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	250
Contact function			2 C	1 N/O + 1 NC
Rated frequency	f	Hz	50/60	50/60
Rated operational current	I_e	A	2	6
Thermal rated operational current	I_{th}	A	2	6
Rated operational current				
AC-13	I_e	A	3 (250 V AC)	3 (250 V AC)
AC-15	I_e	A	2 (250 V AC)	2 (250 V AC)
DC-12	I_e	A	0.5 (110 V DC)	0.5 (110 V DC)
Rated insulation voltage	U_i	V AC	250	250
Minimum operating voltage per contact	U_{min}	V DC	5	5
Minimum operating current	I_{min}	mA	10 (DC)	10 (AC/DC)
Rated impulse withstand voltage (1.2/ 50 µ)	U_{imp}	kV	2.5	4
Rated conditional short-circuit current with 6 A back-up fuse	I_k	kA	1	1
Max. admissible back-up fuse		A gL	6	
Mechanical				
Standard front dimension		mm	45	45
Device height		mm	80	80
Mounting width		mm	8.8 (0.5 SU)	8.8 (0.5 SU)
Mounting			For fitting to to left side of FAZ-...-NA, FAZ-...-RT, FAZ-XAA-NA...	-
Protection type				
Enclosed			IP40	IP40
Terminal protection			Busbar tag shroud to BGV A3	Busbar tag shroud to BGV A3
Terminals			Lift terminals	Lift terminals
Terminal capacity				
		AWG	20 - 14	-
		mm^2		0.5 - 2.5
Terminal screws			M3 (Pozidriv Z0)	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	110 - 415
		V DC	12 - 60	110 - 230
Rated frequency	f	Hz	50/60	50/60
Mechanical				
Standard front dimension		mm	45	45
Device height		mm	105	105
Mounting width		mm	17.5	17.5
Mounting			Quick attachment with two engagement positions for top-hat rail to EN 50022	Quick attachment with two engagement positions for top-hat rail to EN 50022
Protection type				
Enclosed			IP40	IP40
Terminal protection			Busbar tag shroud to BGV A3	Busbar tag shroud to BGV A3
Terminals top and bottom			Twin-purpose terminals	Twin-purpose terminals
Terminal capacity				
Solid		AWG	18 - 10	18 - 10
Two-wire		AWG	18 - 10	18 - 10

Z-NH-..., Z-SLS/B, Z-D0

				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	500
DC			V DC	230	440	440	440
Rated operational current			A	10 - 160	50 - 250	100 - 400	250 - 630
Rated frequency		f	Hz	45 - 62	45 - 62	45 - 62	45 - 62
Rated breaking capacity							
AC			kA	120	120	120	120
DC			kA	25	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	19.4
I_n = 315 A			W	-	-	23.7	23.7
I_n = 400 A			W	-	-	30.5	30.5
I_n = 500 A			W	-	-	-	42.0
I_n = 630 A			W	-	-	-	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-D0./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

			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)	50 (AC) / 8 (DC)
Rated frequency	f	Hz	-	-
Rated operational current	I_e	A	16	63
Conventional thermal current with fuse links	I_{th}	A	-	-
Rated operating mode			-	-
Overvoltage 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	45
Device height		mm	68	68
Mounting width		mm	27 (per pole)	27 (per pole)
Weight		g	1P 76 3P 230	1P 76 3P 230
Electrical thread			E14	E18
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	1.5 - 35
Temperature range		°C	-	-
Terminal screw tightening torque		Nm	2.5 - 3	2.5 - 3
Pollution degree			-	-
Track resistance			CTI 200	CTI 200

			Z-DII./SE
Electrical			
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	400
Rated operational current	I_e	A	63	63
Rated uninterrupted current	I_u	A	63	63
Rated short-circuit making capacity			50 kArms	50 kArms
Normally open contact			-	5A/250V
Switching category			AC 22 B, DC 21 B	AC 22 B, DC 21 B
Overvoltage category			IV	IV
Rated impulse withstand voltage	U_{imp}	kV	6	6
Current heat loss per current path at I_e		W	0.5	0.5
Heat dissipation				
Heat dissipation per contact with fuse link at I_e		W	7.5	7.5
Relay section electrical				
Operating voltage range		V AC	-	24 - 240
Operational voltage tolerance			-	±10%
Power consumption		VA	-	5
Frequency		Hz	-	50-60
Function display			-	Mains: 1 LED Fault: 1 LED
Duty factor		%	-	100
Response delay		ms	-	Approx. 100
Recovery time	t_W	ms	-	Approx.100
Relay contacts			-	2 changeover contacts, 5A/250V
Overvoltage category			-	III
Auxiliary contacts				
Rated impulse withstand voltage	U_{imp}	kV	-	4
Mechanical				
Standard front dimension		mm	45	45
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	IP20
Terminals			Lift terminals	Lift terminals
Terminal capacity				
Solid		mm^2	1.5 - 35	1.5 - 35
Temperature range		°C	-25 ... +60	-25 ... +60
Flammability classification to EN 60730			V0, glow-wire test 960°C	
Terminal screw tightening torque		Nm	Max. 4.5	Max. 4.5
Pollution degree			3	3
Track resistance			CTI 600	CTI 600
Relay section mechanical				
Terminals			Lift terminals	Lift terminals
Terminal capacity				
Solid		mm^2	-	0.14 - 4
Flexible		mm^2	-	0.14 - 2.5
Terminal screw tightening torque		Nm		0.5 - 0.7

			VLC14	VLC22
Electrical				
Number of poles			1P 1P+N 2P 3P 3P+N	1P 1P+N 2P 3P 3P+N
Rated operating voltage		V AC	690	690
Rated operational current	I_e	A	50	100
Rated conditional short-circuit current	I_e	kA	100	100
Rated frequency	f	Hz	50	50
Utilization category			AC 22 B	AC 21 B
Rated impulse withstand voltage	U_{imp}	kV	8	8
Max. permissible heat dissipation of the fuse		W	gG: 5, aM: 3	gG: 9.5, aM: 7
Mechanical				
Standard front dimension		mm	45	45
Device height		mm	94	121
Mounting width		mm	27/per pole	36/per pole
Weight		g	1P 100 1P+N 222 2P 201 3P 308 3P+N 437	1P 160 1P+N 355 2P 310 3P 480 3P+N 680
Mounting			Quick attachment for top-hat rail IEC/EN 60715	
Protection type				
Enclosed			IP20	
Terminals			Lift terminals	
Terminal capacity				
Solid		mm^2	1.5-10	2.5-35
Temperature range		°C	-25 ... +60	-25 ... +60
Terminal screw tightening torque				
Tightening torque		Nm	Max. 2	Max. 2.5
Pollution degree			1	1
Track resistance			CTI 400	CTI 400

			Z-D01/SE	Z-D02/SE
Electrical				
Rated operating voltage		V AC	400	400
		V DC	220	220
Utilization category			gG (gL)	gG (gL)
Rated frequency	f	Hz	45-65	45-65
Rated insulation voltage	U_i	V	2500	2500
Rated short-circuit switching capacity			50 kA (AC) 8 kA (DC)	50 kA (AC) 8 kA (DC)

			Z-SLS/B	Z-SLS/B24	Z-SLS/TR-SET
Electrical					
Rated operating voltage		V DC	-	24	-
Rated operating voltage		V AC	60 - 400	24	400
Utilization category			gG (gL)	gG (gL)	-
Test voltage		kV	5	5	5
Rated uninterrupted current	I_u	A	-	-	63

			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 mm² 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)
Rated voltage	U_n	V AC	1 - 25 A/500 32 A/400	2 - 32 A/690 40 - 50 A/500	16 - 40 A/690 50 - 100 A/500
Utilization category			aM	aM	aM
Rated voltage	U_n	V AC	1 - 16 A/500 20 - 32 A/400	2 - 25 A/690 32 - 50 A/500	16 - 50 A/690 80 - 100 A/500
Rated frequency	f	Hz	50	50	50
Rated short-circuit breaking capacity		kA	100	100	100

			Z-C10/SE-.../PV 10 x 38
Electrical			
Standards			IEC 60269-1 and IEC 60269-4
Rated voltage	U_n	V DC	6 - 20 A/1000 25 A/900
Rated short-circuit breaking capacity		kA	30
τ = L/R		ms	2

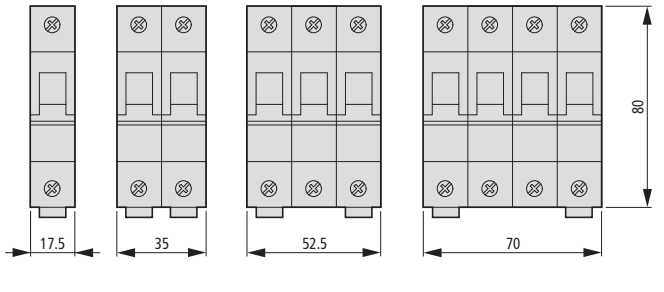
				GST...00-160	GST…1	GST…2	GST…3
General							
Standards				IEC/EN 60947-3			
Climatic proofing				Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30			
Ambient temperature			°C	-25 ... +55	-25 ... +55	-25 ... +55	-25 ... +55
Installation altitude			m	max. 2000	max. 2000	max. 2000	max. 2000
Mounting position				Vertical, horizontal			
Overvoltage 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				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	-25 ... +55
Installation altitude			m	max. 2000	max. 2000	max. 2000	max. 2000
Mounting position				Vertical, horizontal	Vertical, horizontal	Vertical, horizontal	Vertical, horizontal
Overvoltage category/degree of pollution				III/3	III/3	III/3	III/3
Busbar tag shroud at the front							
Operational status				IP00	IP00	IP00	IP00
Direction of incoming supply				Any	Any	Any	Any
Weight			kg	0.4	1.7	2.1	2.7
Contacts							
Rated operating voltage		U_e	V AC	690	690	690	690
Rated operating voltage		U_e	V DC	440	440	440	440
Rated operational current		I_e	A	160	250	400	630
Rated frequency			Hz	40 - 60	40 - 60	40 - 60	40 - 60
Heat dissipation at I_{th} AC, without NH-SE			W	6.9	12.9	27	52
Heat dissipation at I_{th} DC, without NH-SE			W	4.6	8.6	18	34.7
Rated insulation voltage		U_i	V AC	750	750	750	750
Max. fuse 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	-	-	-	-
Copper strip	Number of layers x width x thickness		mm	-	-	-	-
Tightening torque			Nm	-	-	-	-
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 9 x 0.8	6 x 16 x 0.8	10 x 16 x 0.8	11 x 21 x 1
Tightening torque			Nm	2.6	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

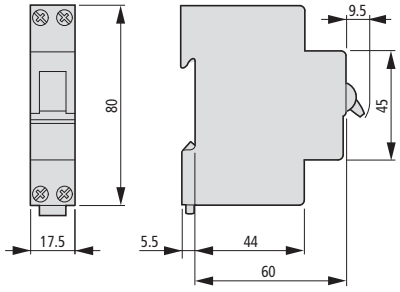
Dimensions

Miniature circuit-breakers (MCB)

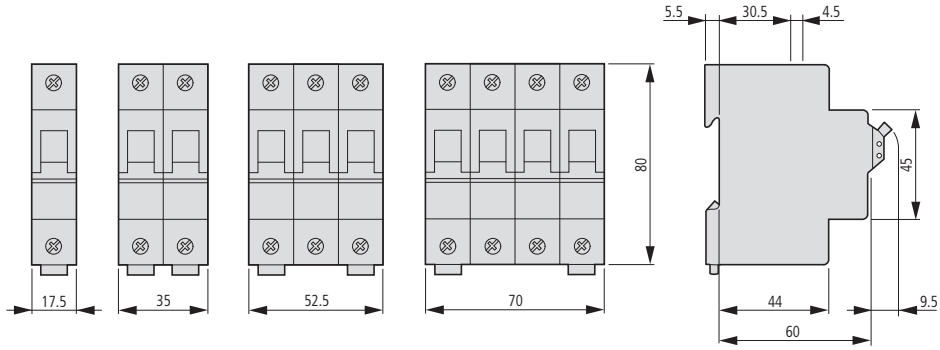
FAZ...



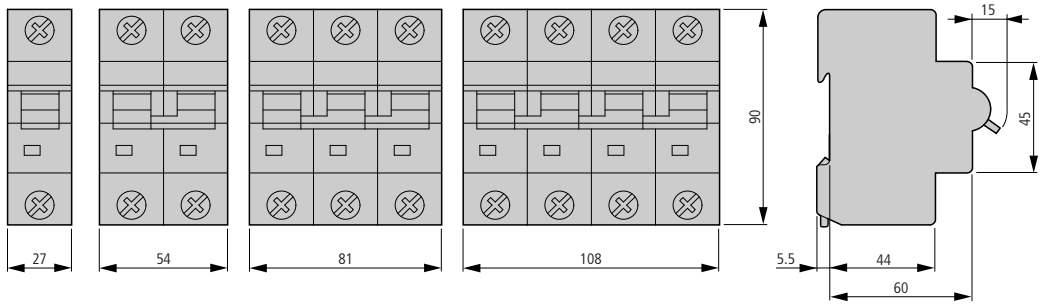
FAZ-PN-...



FAZT

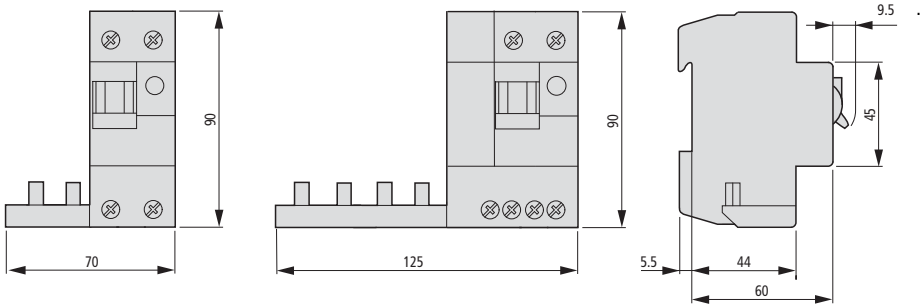


AZ...



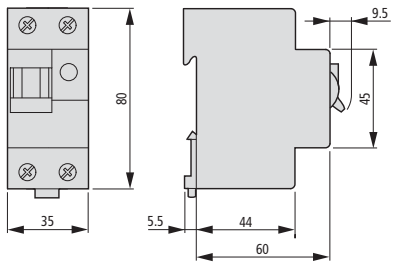
Residual-current protective modules

FIM-...



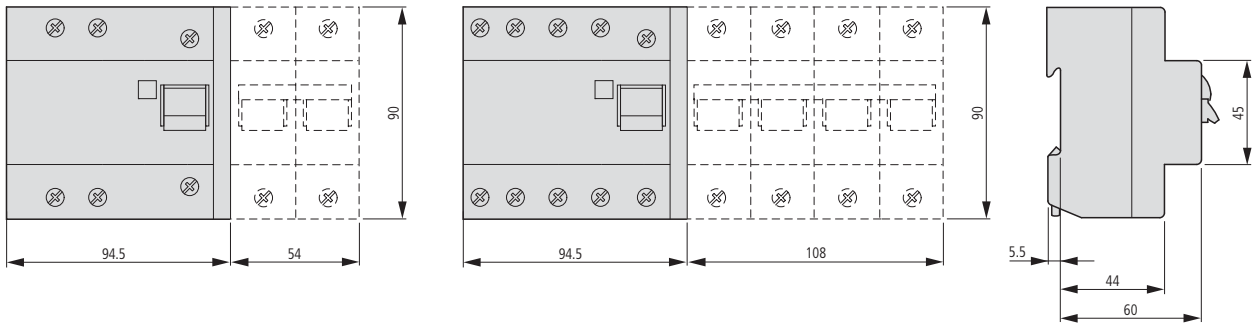
Combination switches

PKNM-...



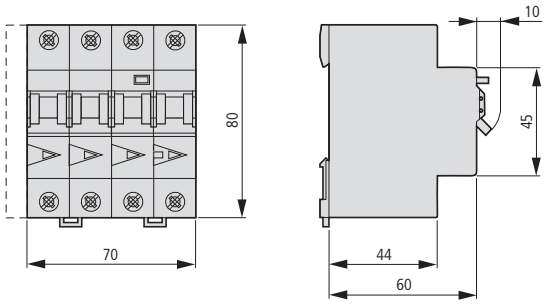
Residual-current protective modules

AZFIM...



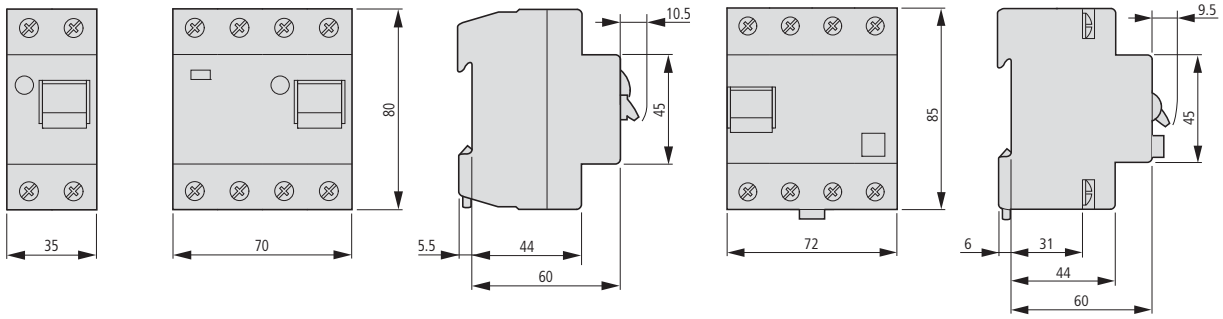
Combination FI/LS switches

mRB6..., mRB4...



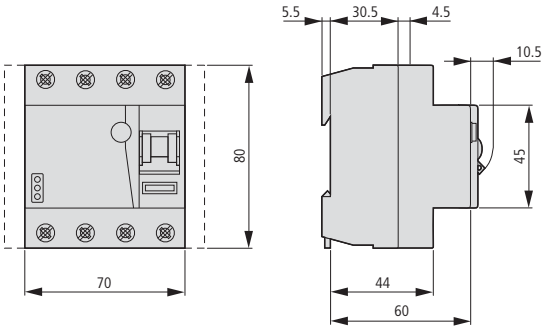
Residual-current devices

FI-...



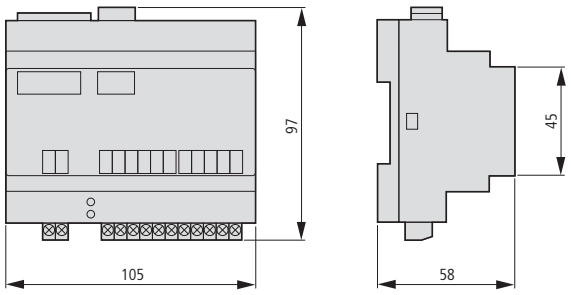
Residual-current devices

dRCM...



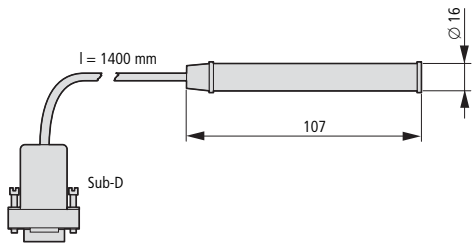
Remote monitoring unit

Z-CC/2CO



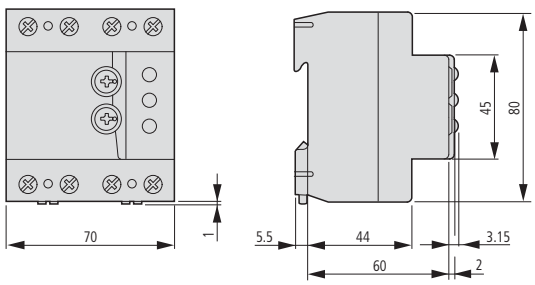
Temperature sensor

Z-CC/2CO-SE



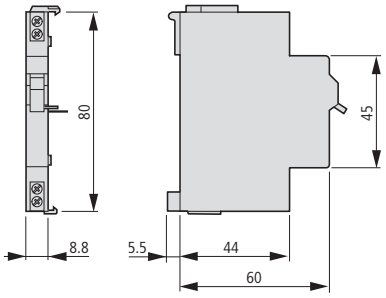
Leakage current meter

PDIM

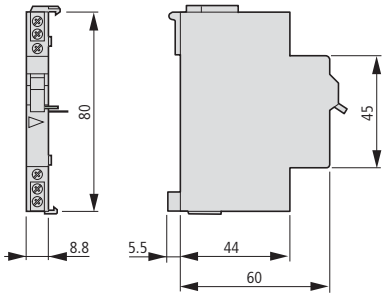


Auxiliary contacts

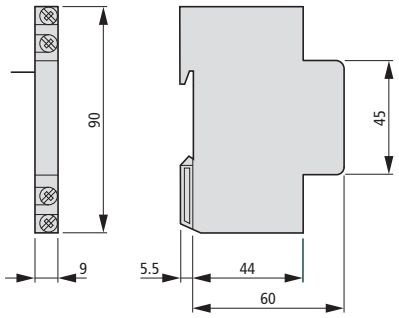
FAZ-XHIN11



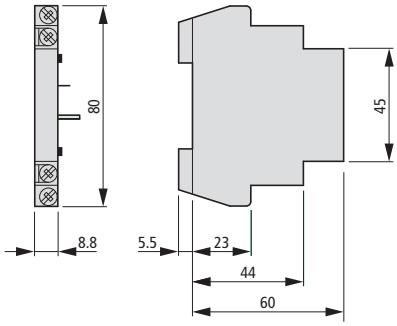
FAZ-XAM002



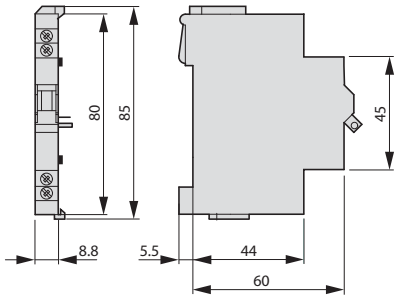
AZ-XHI11



FIP-XHI11

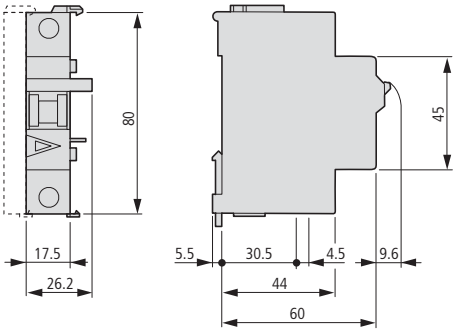


FIPA-XAM011



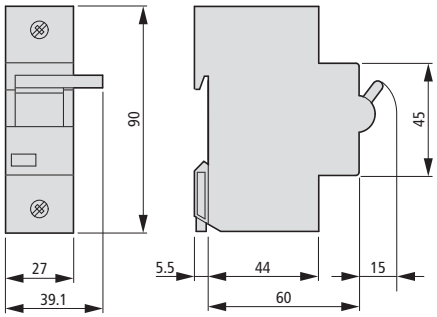
Shunt release

FAZ-XAA-C...



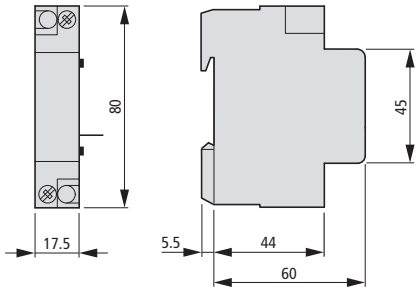
Shunt release

AZ-XAA...



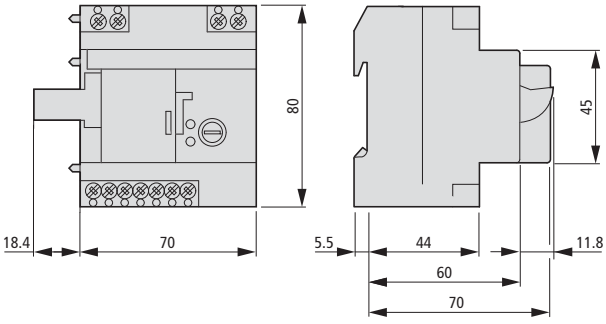
Under voltage release

FAZ-XUA...

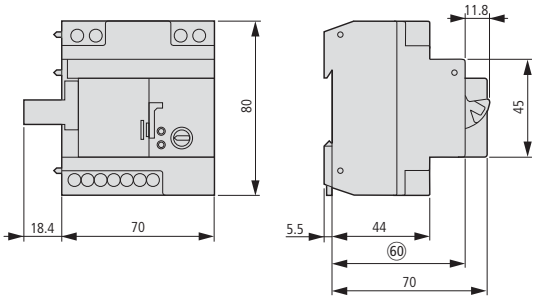


Remote switching modules

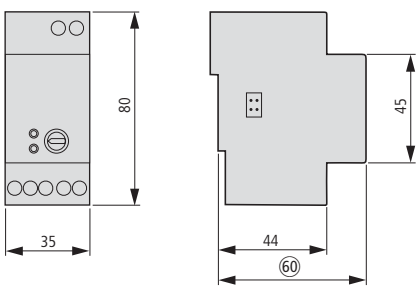
FAZ/FIP-...



Z-FW-LP
Z-FW-LPD

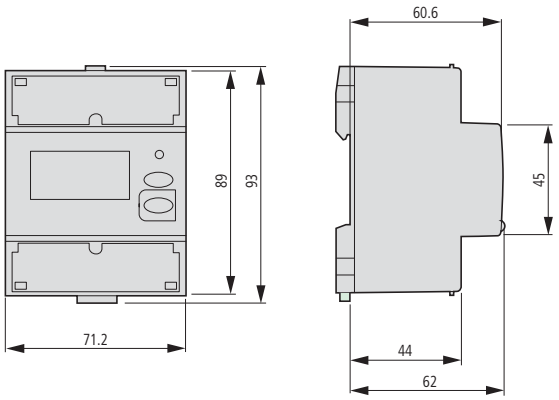


Z-FW-M0



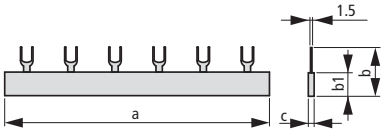
Power meter

KWZ-3PH...



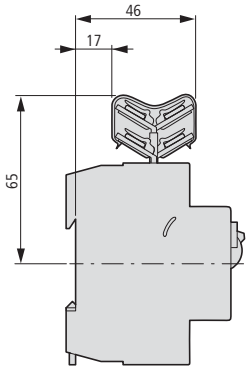
Euro-Vario busbars

EVG-10(16)/...



Connecting bracket

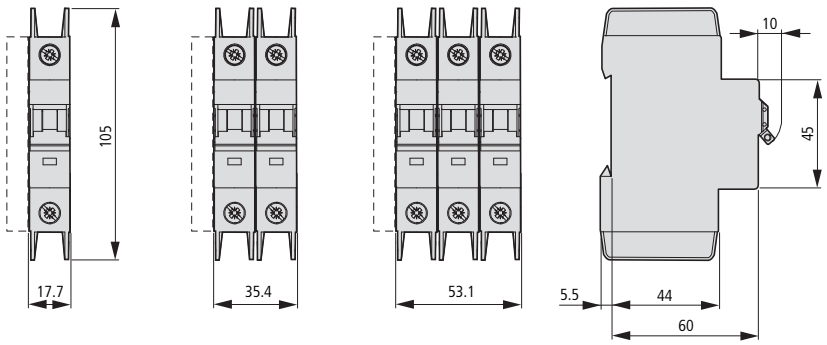
ZV-...-80A-...



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

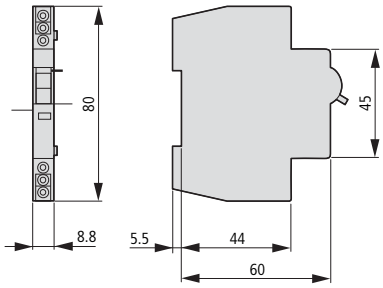
Miniature circuit-breakers (MCB)

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



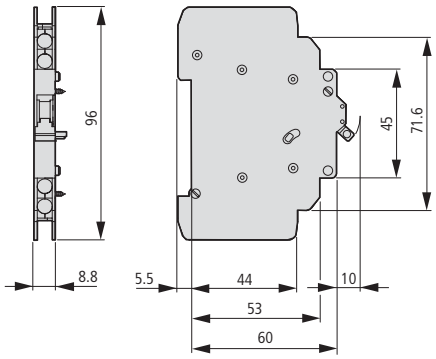
Tripping signal contact

Z-NHK



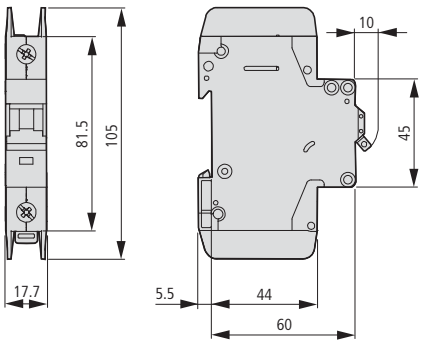
Auxiliary contacts

Z-IHK-NA



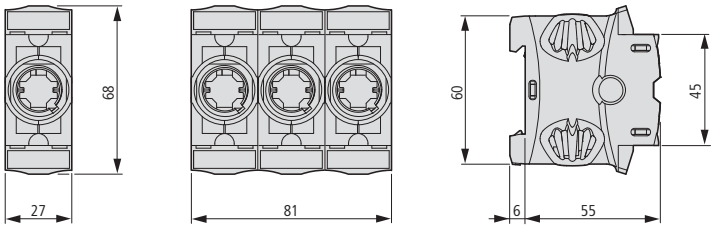
Shunt release

FAZ-XAA-NA...



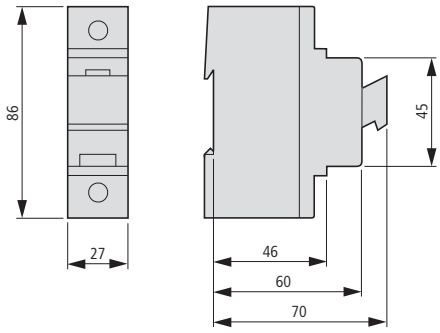
Fuse bases

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



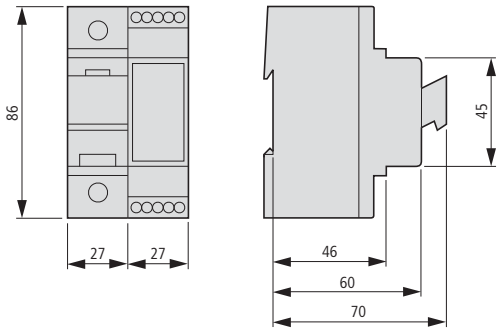
Fuse switch-disconnectors

Z-SLS/NEOZ/...



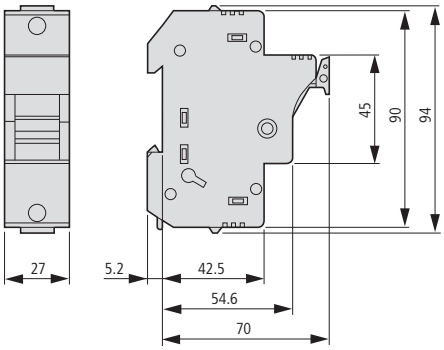
With fuse monitoring, empty

Z-SLK/NEOZ/...

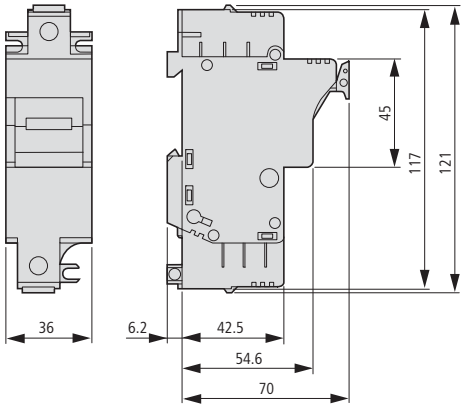


Fuse switch-disconnectors, empty

VLC14...

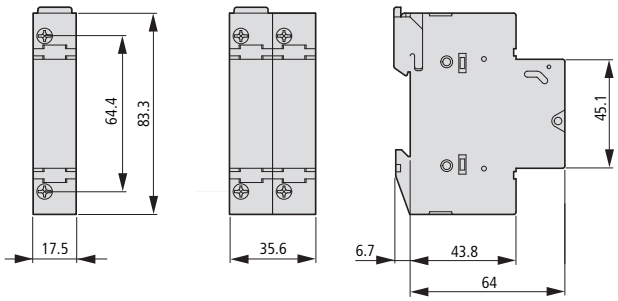


VLC22...



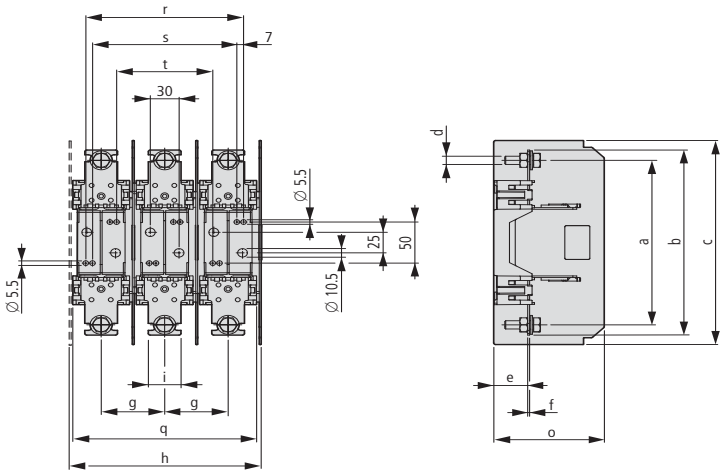
Fuse switch-disconnectors

C10-FD/20/...

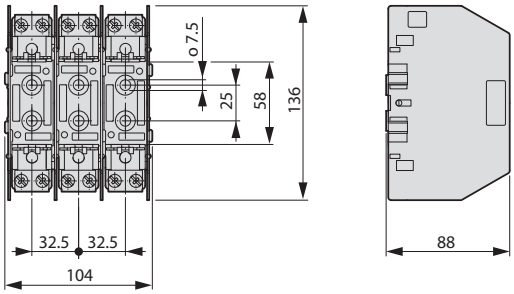


LV h.b.c. fuse bases

GSU1 GSU2 GSU3



GS00-160

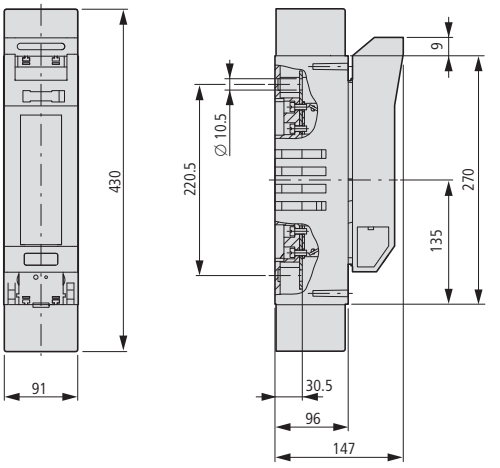


Part no.	a	b	c	d	e	f	g	h	l	o	q	r	s	t
GSU1	175	200	248	M10	35	2	66	200	34	107	191	164	150	100
GSU2	200	225	248	M10	35	2	66	200	34	115	191	164	150	100
GSU3	210	250	273	M10	35	3	84	254	40	132.5	245	200	186	136

LV h.b.c. fuse switch-disconnectors

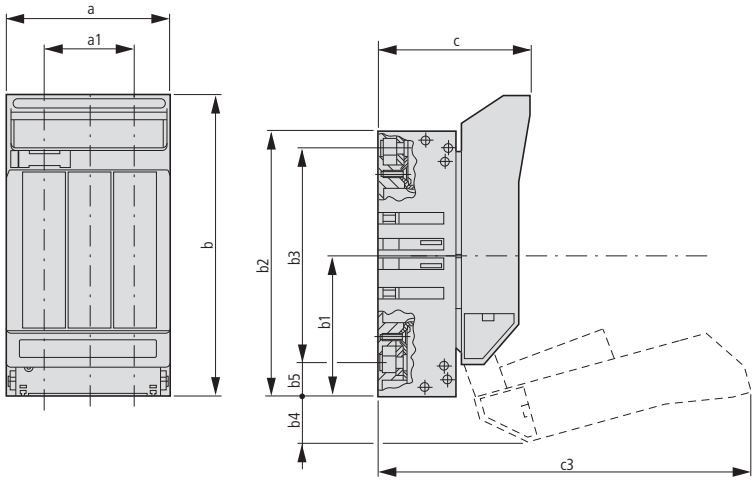
1 pole

GSTA00-160-1P



3 pole

GSTA00-160 GSTA1 GSTA2 GSTA3

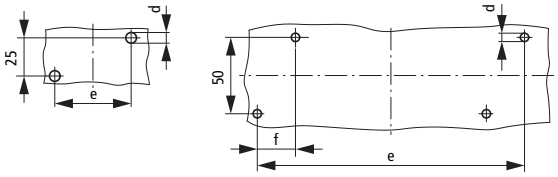


Part no.	a	a1	b	b1	b2	b3	b4	b5	c	c3	d	e	f
GSTA00-160-1P	49	-	169	79	149	120	-	-	86.5	-	7	-	-
GSTA00-160	106	66	169	79	149	120	25	26	86.5	197	7	50	-
GSTA1	182	116	250	115	230	184	30	23	111	294	5.5	150	-
GSTA2	208	132	275	128	256	217	30	19.5	125	330.5	5.5	175	25
GSTA3	254	164	283	135	270	238	30	16	142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

LV h.b.c. fuse switch-disconnectors, drilling dimensions

GSTA00-160 GSTA2

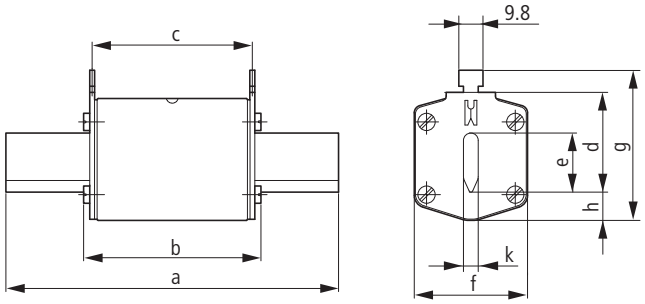
GSTA1 GSTA3



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	6
	125-160 A	79	53	47	35	15	28	56	12	6
Z-NH-1/	Up to 160 A	135	68	65	40	15	28	61	12	6
	200-250 A	135	72	65	40	20	46	65	14	6
Z-NH-2/	to 250 A	150	72	65	48	20	46	73	14	6
	315-400 A	150	72	65	48	26	54	73	14	6
Z-NH-3/	to 400 A	150	72	65	60	26	54	84	14	6
	500-630 A	150	72	65	60	33	65	84	14	6