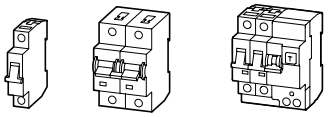




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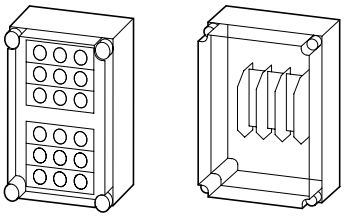
Moeller HPL0211-2004/2005

Miniature circuit-breakers



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MCB enclosures, fuse enclosures

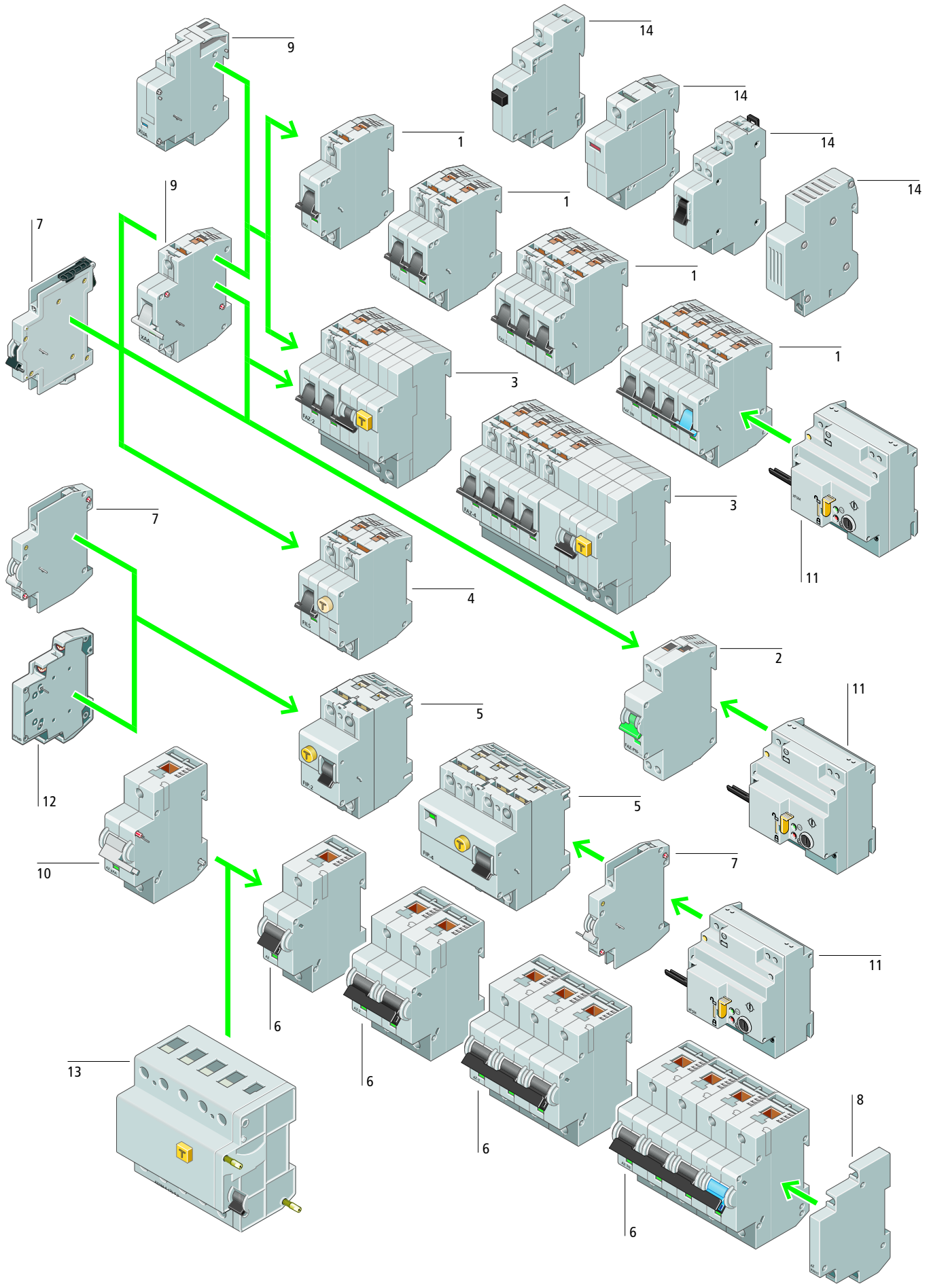


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xEnergy

Catalogue: FK4810-1143D
"Type-tested power distribution installation up to 4000 A"

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Base Units

FAZ miniature circuit-breakers 1

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

Switching capacity:
15 kA to IEC/EN 60947-2
B, C, D characteristics

10 kA to IEC/EN 60947-2
S characteristic

15 kA to IEC/EN 60947-2
Z characteristic

1-, 1N-, 2-, 3-, 3N-, 4-pole
(S:1-, 2-pole; Z:1-, 2-, 3-, 4-pole)

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

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

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FAZ-PN miniature circuit-breakers 2

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

Switching capacity:
6 kA to IEC/EN 60 898
B, C characteristic

1-pole + N

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Residual-current protective modules for fitting to FAZ 3

Protection in the event of fault current

Rated current range 40 – 63 A

Rated fault current 30 mA, 300 mA

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Residual-current protective modules for fitting to FAZ 13

Protection in the event of fault current

Rated current range 80 – 125 A

Rated fault current 30 mA, 300 mA

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PKNM combined RCD/MCB devices 4

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

Characteristic/rated current ranges
B/6-40 A; C/6-40 A; 1-pole + N

Switching capacity:
10 kA to IEC/EN 60 898

Rated fault current 30 mA, 300 mA

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Residual-current circuit-breakers 5

Alternating-current sensitive
2-pole, 16 – 80 A
4-pole, 25 – 80 A
Pulse-current sensitive
2-pole, 16 – 40 A,
4-pole, 25 – 125 A
AC/DC
4-pole, 40 – 80 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

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AZ miniature circuit-breakers 6

Characteristic/rated current ranges
C/20-125 A; D/50-100 A

Switching capacity:
15 – 25 kA to IEC/EN 60 947-2
1-, 2-, 3-, 3-pole+N, 4-pole

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Main switches

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Installation contactors

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Staircase timers, light intensity switches, timers, buzzer, bell, power meter, hours-run counter, plug socket

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Standard auxiliary contact

Trip-indicating auxiliary contact

Auxiliary contacts

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AZ auxiliary contacts 8

Standard auxiliary contact

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FAZ voltage releases 9

Undervoltage release

Shunt release
can be fitted to FAZ or FAZ-FIM

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AZ voltage releases 10

Shunt release

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Remote switching module 11

Suitable for remote switching and automatic resetting of a miniature circuit-breaker or residual-current circuit-breaker, for testing that a residual-current circuit-breaker has tripped in conjunction with a remote testing module

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Miniature Circuit-Breakers, MCB Enclosures, Fuse Enclosures

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	Rated current I_n A	**1-pole**  **Type** Article no.		Std. pack	**2-pole** With 2 protected poles  **Type** Article no.		Std. pack	**3-pole** With 3 protected poles  **Type** Article no.		Std. pack
FAZ miniature circuit-breakers										
B Response current of short-circuit release $3 - 5 \times I_n$	4	**FAZ-B4/1-HS** 279274		12 off	**FAZ-B4/2-HS** 279275		1 off	–		
	5	**FAZ-B5/1** 278528	29		–			–		
	6	**FAZ-B6/1** 278529			**FAZ-B6/2** 278728			**FAZ-B6/3** 278841		1 off
	8	**FAZ-B8/1** 278530			**FAZ-B8/2** 278729			**FAZ-B8/3** 278842		
	10	**FAZ-B10/1** 278531			**FAZ-B10/2** 278730			**FAZ-B10/3** 278843		
	12	**FAZ-B12/1** 278532			**FAZ-B12/2** 278731			**FAZ-B12/3** 278844		
	13	**FAZ-B13/1** 278533			**FAZ-B13/2** 278732			**FAZ-B13/3** 278845		
	15	**FAZ-B15/1** 278534			**FAZ-B15/2** 278733			**FAZ-B15/3** 278846		
	16	**FAZ-B16/1** 278535			**FAZ-B16/2** 278734			**FAZ-B16/3** 278847		
	20	**FAZ-B20/1** 278536			**FAZ-B20/2** 278735			**FAZ-B20/3** 278848		
	25	**FAZ-B25/1** 278537			**FAZ-B25/2** 278736			**FAZ-B25/3** 278849		
	32	**FAZ-B32/1** 278538			**FAZ-B32/2** 278737			**FAZ-B32/3** 278850		
	40	**FAZ-B40/1** 278539			**FAZ-B40/2** 278738			**FAZ-B40/3** 278851		
	50	**FAZ-B50/1** 278540			**FAZ-B50/2** 278739			**FAZ-B50/3** 278852		
	63	**FAZ-B63/1** 278541			**FAZ-B63/2** 278740			**FAZ-B63/3** 278853		

	Rated current I_n A	**4-pole** With 4 protected poles  **Type** Article no.		Std. pack	**2-pole** With 1 protected pole, N switching with pole  **Type** Article no.		Std. pack	**4-pole** With 3 protection poles, N switching with poles  **Type** Article no.		Std. pack	**Notes**
	4	–			–			–			
	5	–			–			–			
	6	**FAZ-B6/4** 279029		1 off	**FAZ-B6/1N** 278642		1 off	**FAZ-B6/3N** 278943		1 off	
	8	**FAZ-B8/4** 279030			**FAZ-B8/1N** 278643			**FAZ-B8/3N** 278944			
	10	**FAZ-B10/4** 279031			**FAZ-B10/1N** 278644			**FAZ-B10/3N** 278945			
	12	**FAZ-B12/4** 279032			**FAZ-B12/1N** 278645			**FAZ-B12/3N** 278946			
	13	**FAZ-B13/4** 279033			**FAZ-B13/1N** 278646			**FAZ-B13/3N** 278947			
	15	**FAZ-B15/4** 279034			**FAZ-B15/1N** 278647			**FAZ-B15/3N** 278948			
	16	**FAZ-B16/4** 279035			**FAZ-B16/1N** 278648			**FAZ-B16/3N** 278949			
	20	**FAZ-B20/4** 279036			**FAZ-B20/1N** 278649			**FAZ-B20/3N** 278950			
	25	**FAZ-B25/4** 279037			**FAZ-B25/1N** 278650			**FAZ-B25/3N** 278951			
	32	**FAZ-B32/4** 279038			**FAZ-B32/1N** 278651			**FAZ-B32/3N** 278952			
	40	**FAZ-B40/4** 279039			**FAZ-B40/1N** 278652			**FAZ-B40/3N** 278953			
	50	**FAZ-B50/4** 279040			**FAZ-B50/1N** 278653			**FAZ-B50/3N** 278954			
	63	**FAZ-B63/4** 279041			**FAZ-B63/1N** 278654			**FAZ-B63/3N** 278955			

Switching capacity (IEC/EN 60898) 10 kA

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

Accessories	**Page**
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Mounting accessories	12/23

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

1-pole
Depth 71 mm
Width 17.5 mm



2-pole
Depth 71 mm
Width 35 mm



3-pole
Depth 71 mm
Width 52.5 mm



4-pole
Depth 71 mm
Width 70 mm



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Miniature Circuit-Breakers, MCB Enclosures, Fuse Enclosures

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FAZ miniature circuit-breakers

	Rated current I_n A	1-pole Type / Article no.	Std. pack	2-pole With 2 protected poles Type / Article no.	Std. pack	3-pole With 3 protected poles Type / Article no.	Std. pack	4-pole With 4 protected poles Type / Article no.	Std. pack	2-pole With 1 protected pole, N switching with pole Type / Article no.	Std. pack	4-pole With 3 protection poles, N switching with poles Type / Article no.	Std. pack
C Response current of short-circuit release 5 – 10 × I_n	0,5	**FAZ-C0,5/1** 278544	12 off	**FAZ-C0,5/2** 278743	1 off	**FAZ-C0,5/3** 278856	1 off	**FAZ-C0,5/4** 279044	1 off	**FAZ-C0,5/1N** 278657	1 off	**FAZ-C0,5/3N** 278958	1 off
	1	**FAZ-C1/1** 278546		**FAZ-C1/2** 278745		**FAZ-C1/3** 278858		**FAZ-C1/4** 279046		**FAZ-C1/1N** 278659		**FAZ-C1/3N** 278960	
	1,6	**FAZ-C1,6/1** 278548		**FAZ-C1,6/2** 278747		**FAZ-C1,6/3** 278860		**FAZ-C1,6/4** 279048		**FAZ-C1,6/1N** 278661		**FAZ-C1,6/3N** 278962	
	2	**FAZ-C2/1** 278549		**FAZ-C2/2** 278748		**FAZ-C2/3** 278861		**FAZ-C2/4** 279049		**FAZ-C2/1N** 278662		**FAZ-C2/3N** 278963	
	3	**FAZ-C3/1** 278551		**FAZ-C3/2** 278750		**FAZ-C3/3** 278863		**FAZ-C3/4** 279051		**FAZ-C3/1N** 278664		**FAZ-C3/3N** 278965	
	4	**FAZ-C4/1** 278553		**FAZ-C4/2** 278752		**FAZ-C4/3** 278865		**FAZ-C4/4** 279053		**FAZ-C4/1N** 278666		**FAZ-C4/3N** 278967	
	6	**FAZ-C6/1** 278555		**FAZ-C6/2** 278754		**FAZ-C6/3** 278867		**FAZ-C6/4** 279055		**FAZ-C6/1N** 278668		**FAZ-C6/3N** 278969	
	8	**FAZ-C8/1** 278556		**FAZ-C8/2** 278755		**FAZ-C8/3** 278868		**FAZ-C8/4** 279056		**FAZ-C8/1N** 278669		**FAZ-C8/3N** 278970	
	10	**FAZ-C10/1** 278557		**FAZ-C10/2** 278756		**FAZ-C10/3** 278869		**FAZ-C10/4** 279057		**FAZ-C10/1N** 278670		**FAZ-C10/3N** 278971	
	13	**FAZ-C13/1** 278559		**FAZ-C13/2** 278758		**FAZ-C13/3** 278871		**FAZ-C13/4** 279059		**FAZ-C13/1N** 278672		**FAZ-C13/3N** 278973	
	16	**FAZ-C16/1** 278561		**FAZ-C16/2** 278760		**FAZ-C16/3** 278873		**FAZ-C16/4** 279061		**FAZ-C16/1N** 278674		**FAZ-C16/3N** 278975	
	20	**FAZ-C20/1** 278562		**FAZ-C20/2** 278761		**FAZ-C20/3** 278874		**FAZ-C20/4** 279062		**FAZ-C20/1N** 278675		**FAZ-C20/3N** 278976	
	25	**FAZ-C25/1** 278563		**FAZ-C25/2** 278762		**FAZ-C25/3** 278875		**FAZ-C25/4** 279063		**FAZ-C25/1N** 278676		**FAZ-C25/3N** 278977	
	32	**FAZ-C32/1** 278564		**FAZ-C32/2** 278763		**FAZ-C32/3** 278876		**FAZ-C32/4** 279064		**FAZ-C32/1N** 278677		**FAZ-C32/3N** 278978	
	40	**FAZ-C40/1** 278565		**FAZ-C40/2** 278764		**FAZ-C40/3** 278877		**FAZ-C40/4** 279065		**FAZ-C40/1N** 278678		**FAZ-C40/3N** 278979	
	50	**FAZ-C50/1** 278566		**FAZ-C50/2** 278765		**FAZ-C50/3** 278878		**FAZ-C50/4** 279066		**FAZ-C50/1N** 278679		**FAZ-C50/3N** 278980	
	63	**FAZ-C63/1** 278567		**FAZ-C63/2** 278766		**FAZ-C63/3** 278879		**FAZ-C63/4** 279067		**FAZ-C63/1N** 278680		**FAZ-C63/3N** 278981	
D Response current of short-circuit release 10 – 20 × I_n	6	**FAZ-D6/1** 278578	12 off	**FAZ-D6/2** 278777	1 off	**FAZ-D6/3** 278890	1 off	**FAZ-D6/4** 279078	1 off	–		**FAZ-D6/3N** 278992	1 off
	8	**FAZ-D8/1** 278579		**FAZ-D8/2** 278778		**FAZ-D8/3** 278891		**FAZ-D8/4** 279079		–		**FAZ-D8/3N** 278993	
	10	**FAZ-D10/1** 278580		**FAZ-D10/2** 278779		**FAZ-D10/3** 278892		**FAZ-D10/4** 279080		–		**FAZ-D10/3N** 278994	
	13	**FAZ-D13/1** 278582		**FAZ-D13/2** 278781		**FAZ-D13/3** 278894		**FAZ-D13/4** 279082		–		**FAZ-D13/3N** 278996	
	16	**FAZ-D16/1** 278584		**FAZ-D16/2** 278783		**FAZ-D16/3** 278896		**FAZ-D16/4** 279084		–		**FAZ-D16/3N** 278998	
	20	**FAZ-D20/1** 278585		**FAZ-D20/2** 278784		**FAZ-D20/3** 278897		**FAZ-D20/4** 279085		–		**FAZ-D20/3N** 278999	
	25	**FAZ-D25/1** 278586		**FAZ-D25/2** 278785		**FAZ-D25/3** 278898		**FAZ-D25/4** 279086		–		**FAZ-D25/3N** 279000	
	32	**FAZ-D32/1** 278587		**FAZ-D32/2** 278786		**FAZ-D32/3** 278899		**FAZ-D32/4** 279087		–		**FAZ-D32/3N** 279001	
	40	**FAZ-D40/1** 278588		**FAZ-D40/2** 278787		**FAZ-D40/3** 278900		**FAZ-D40/4** 279088		–		**FAZ-D40/3N** 279002	

Notes

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

Accessories	Page
Auxiliary contacts, Voltage releases	12/21
Mounting accessories	12/23

1-pole
Depth 71 mm
Width 17.5 mm



2-pole
Depth 71 mm
Width 35 mm



3-pole
Depth 71 mm
Width 52.5 mm



4-pole
Depth 71 mm
Width 70 mm

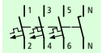


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Miniature Circuit-Breakers, MCB Enclosures, Fuse Enclosures

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	Rated current I_n A	**1-pole**  **Type** Article no.		Std. pack	**2-pole** With 2 protected poles  **Type** Article no.		Std. pack	**3-pole** With 3 protected poles  **Type** Article no.	Std. pack	**4-pole** With 4 protected poles  **Type** Article no.	Std. pack	**4-pole** With 3 protection poles, N switching with poles  **Type** Article no.	Std. pack	**Notes**
FAZ miniature circuit-breakers														
K Response current of short-circuit release 8 – 12 × I_n	0.5	**FAZ-K0,5/1** 278589		12 off	**FAZ-K0,5/2** 278788		1 off	**FAZ-K0,5/3** 278901	1 off	**FAZ-K0,5/4** 279089	1 off	**FAZ-K0,5/3N** 279003	1 off	
	1	**FAZ-K1/1** 278590			**FAZ-K1/2** 278789			**FAZ-K1/3** 278902		**FAZ-K1/4** 279090		**FAZ-K1/3N** 279004		
	1.6	**FAZ-K1,6/1** 278591			**FAZ-K1,6/2** 278790			**FAZ-K1,6/3** 278903		**FAZ-K1,6/4** 279091		**FAZ-K1,6/3N** 279005		
	2	**FAZ-K2/1** 278592			**FAZ-K2/2** 278791			**FAZ-K2/3** 278904		**FAZ-K2/4** 279092		**FAZ-K2/3N** 279006		
	3	**FAZ-K3/1** 278593			**FAZ-K3/2** 278792			**FAZ-K3/3** 278905		**FAZ-K3/4** 279093		**FAZ-K3/3N** 279007		
	4	**FAZ-K4/1** 278594			**FAZ-K4/2** 278793			**FAZ-K4/3** 278906		**FAZ-K4/4** 279094		**FAZ-K4/3N** 279008		
	6	**FAZ-K6/1** 278595			**FAZ-K6/2** 278794			**FAZ-K6/3** 278907		**FAZ-K6/4** 279095		**FAZ-K6/3N** 279009		
	8	**FAZ-K8/1** 278596			**FAZ-K8/2** 278795			**FAZ-K8/3** 278908		**FAZ-K8/4** 279096		**FAZ-K8/3N** 279010		
	10	**FAZ-K10/1** 278597			**FAZ-K10/2** 278796			**FAZ-K10/3** 278909		**FAZ-K10/4** 279097		**FAZ-K10/3N** 279011		
	13	**FAZ-K13/1** 278598			**FAZ-K13/2** 278797			**FAZ-K13/3** 278910		**FAZ-K13/4** 279098		**FAZ-K13/3N** 279012		
	16	**FAZ-K16/1** 278599			**FAZ-K16/2** 278798			**FAZ-K16/3** 278911		**FAZ-K16/4** 279099		**FAZ-K16/3N** 279013		
	20	**FAZ-K20/1** 278600			**FAZ-K20/2** 278799			**FAZ-K20/3** 278912		**FAZ-K20/4** 279100		**FAZ-K20/3N** 279014		
	25	**FAZ-K25/1** 278601			**FAZ-K25/2** 278800			**FAZ-K25/3** 278913		**FAZ-K25/4** 279101		**FAZ-K25/3N** 279015		
	32	**FAZ-K32/1** 278602			**FAZ-K32/2** 278801			**FAZ-K32/3** 278914		**FAZ-K32/4** 279102		**FAZ-K32/3N** 279016		
	40	**FAZ-K40/1** 278603			**FAZ-K40/2** 278802			**FAZ-K40/3** 278915		**FAZ-K40/4** 279103		**FAZ-K40/3N** 279017		
	50	**FAZ-K50/1** 278604			**FAZ-K50/2** 278803			**FAZ-K50/3** 278916		**FAZ-K50/4** 279104		**FAZ-K50/3N** 279018		
	63	**FAZ-K63/1** 278605			**FAZ-K63/2** 278804			**FAZ-K63/3** 278917		**FAZ-K63/4** 279105		**FAZ-K63/3N** 279019		

Switching capacity (IEC/EN 60898) 10 kA

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

Accessories	**Page**
Auxiliary contacts, Voltage releases	12/21
Mounting accessories	12/23

1-pole
Depth 71 mm
Width 17.5 mm

2-pole
Depth 71 mm
Width 35 mm

3-pole
Depth 71 mm
Width 52.5 mm



4-pole
Depth 71 mm
Width 70 mm



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Miniature Circuit-Breakers, MCB Enclosures, Fuse Enclosures

Moeller HPL0211-2004/2005

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	Rated current I_n A	1-pole Type Article no.		Std. pack	2-pole With 2 protected poles Type Article no.		Std. pack	3-pole With 3 protected poles Type Article no.		Std. pack	4-pole With 4 protected poles Type Article no.		Std. pack	Notes
FAZ miniature circuit-breakers														
S Response current of short-circuit release 13 – 17 × I_n	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			–			–			
Z Response current of short-circuit release 2 – 3 × I_n	0.5	**FAZ-Z0,5/1** 278617		12 off	**FAZ-Z0,5/2** 278816		1 off	**FAZ-Z0,5/3** 278918		1 off	**FAZ-Z0,5/4** 279106		1 off	
	1	**FAZ-Z1/1** 278618			**FAZ-Z1/2** 278817			**FAZ-Z1/3** 278919			**FAZ-Z1/4** 279107			
	1.6	**FAZ-Z1,6/1** 278619			**FAZ-Z1,6/2** 278818			**FAZ-Z1,6/3** 278920			**FAZ-Z1,6/4** 279108			
	2	**FAZ-Z2/1** 278620			**FAZ-Z2/2** 278819			**FAZ-Z2/3** 278921			**FAZ-Z2/4** 279109			
	3	**FAZ-Z3/1** 278621			**FAZ-Z3/2** 278820			**FAZ-Z3/3** 278922			**FAZ-Z3/4** 279110			
	4	**FAZ-Z4/1** 278622			**FAZ-Z4/2** 278821			**FAZ-Z4/3** 278923			**FAZ-Z4/4** 279111			
	6	**FAZ-Z6/1** 278623			**FAZ-Z6/2** 278822			**FAZ-Z6/3** 278924			**FAZ-Z6/4** 279112			
	8	**FAZ-Z8/1** 278624			**FAZ-Z8/2** 278823			**FAZ-Z8/3** 278925			**FAZ-Z8/4** 279113			
	10	**FAZ-Z10/1** 278625			**FAZ-Z10/2** 278824			**FAZ-Z10/3** 278926			**FAZ-Z10/4** 279114			
	16	**FAZ-Z16/1** 278626			**FAZ-Z16/2** 278825			**FAZ-Z16/3** 278927			**FAZ-Z16/4** 279115			
	20	**FAZ-Z20/1** 278627			**FAZ-Z20/2** 278826			**FAZ-Z20/3** 278928			**FAZ-Z20/4** 279116			
	25	**FAZ-Z25/1** 278628			**FAZ-Z25/2** 278827			**FAZ-Z25/3** 278929			**FAZ-Z25/4** 279117			
	32	**FAZ-Z32/1** 278629			**FAZ-Z32/2** 278828			**FAZ-Z32/3** 278930			**FAZ-Z32/4** 279118			
	40	**FAZ-Z40/1** 278630			**FAZ-Z40/2** 278829			**FAZ-Z40/3** 278931			**FAZ-Z40/4** 279119			
	50	**FAZ-Z50/1** 278631			**FAZ-Z50/2** 278830			**FAZ-Z50/3** 278932			**FAZ-Z50/4** 279120			
	63	**FAZ-Z63/1** 278632			**FAZ-Z63/2** 278831			**FAZ-Z63/3** 278933			**FAZ-Z63/4** 279121			

Accessories	Page
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Mounting accessories	12/23

1-pole
Depth 71 mm
Width 17.5 mm



2-pole
Depth 71 mm
Width 35 mm



3-pole
Depth 71 mm
Width 52.5 mm



4-pole
Depth 71 mm
Width 70 mm

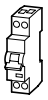


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Rated current I_n A	**2-pole** With 1 protected pole, N switching with pole  **Type** Article no.	**Price** See Price List	Std. pack	**Notes**
FAZ-PN miniature circuit-breakers				
Characteristic B Response current of short-circuit release 3 – 5 × I_n				
6	**FAZ-PN-B6/1N** 279146		12 off	
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 Response current of short-circuit release 5 – 10 × I_n				
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			

Accessories	**Page**
Auxiliary contacts, Voltage releases	12/21

1-pole + N
Depth 71 mm
Width 17.5 mm

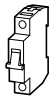


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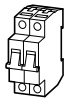
Rated current I_n A	1-pole Type Article no.	Price See Price List	Std. pack	2-pole With 2 protected poles Type Article no.	Price See Price List	Std. pack	Notes
FAZ miniature circuit-breakers for DC applications							
Characteristic C Response current of short-circuit release $7 - 14 \times I_n$ Switching capacity 10 kA (L/R = 4 ms) Rated voltage 250 V DC on each pole							
2	**FAZ-C2/1-DC** 279122		12 off	**FAZ-C2/2-DC** 279134		1 off	
3	**FAZ-C3/1-DC** 279123			**FAZ-C3/2-DC** 279135			
4	**FAZ-C4/1-DC** 279124			**FAZ-C4/2-DC** 279136			
6	**FAZ-C6/1-DC** 279125			**FAZ-C6/2-DC** 279137			
10	**FAZ-C10/1-DC** 279126			**FAZ-C10/2-DC** 279138			
13	**FAZ-C13/1-DC** 279127			**FAZ-C13/2-DC** 279139			
16	**FAZ-C16/1-DC** 279128			**FAZ-C16/2-DC** 279140			
20	**FAZ-C20/1-DC** 279129			**FAZ-C20/2-DC** 279141			
25	**FAZ-C25/1-DC** 279130			**FAZ-C25/2-DC** 279142			
32	**FAZ-C32/1-DC** 279131			**FAZ-C32/2-DC** 279143			
40	**FAZ-C40/1-DC** 279132			**FAZ-C40/2-DC** 279144			
50	**FAZ-C50/1-DC** 279133			**FAZ-C50/2-DC** 279145			

Accessories	Page
Auxiliary contacts, Voltage releases	12/21
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1-pole
Depth 71 mm
Width 17.5 mm



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

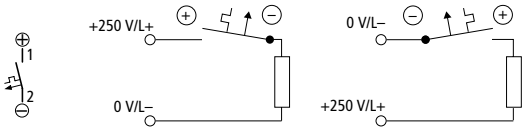


Notes

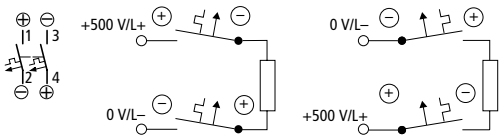
Circuit design notes

Note polarity!

1-pole



2-pole

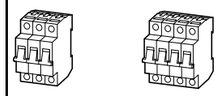


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Miniature Circuit-Breakers, MCB Enclosures, Fuse Enclosures

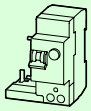
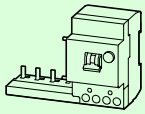
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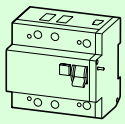
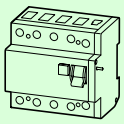
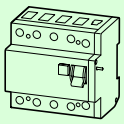
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	Rated current I_n A	**1-pole** **Type** Article no.	**Price** See Price List	Std. pack	**2-pole** With 2 protected poles **Type** Article no.	**Price** See Price List	Std. pack	**3-pole** With 3 protected poles **Type** Article no.	**Price** See Price List	Std. pack	**4-pole** With 4 protected poles **Type** Article no.	**Price** See Price List	Std. pack	**4-pole** With 3 protection poles, N switching with poles **Type** Article no.	**Price** See Price List	Std. pack	**Notes**
AZ miniature circuit-breakers																	
Characteristic C Response current of short-circuit release $5 - 10 \times I_n$	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	For switching capacity refer to Technical Data
	25	**AZ-C25** 211774			**AZ-2-C25** 211775			**AZ-3-C25** 211776			**AZ-4-C25** 211777			**AZ-3N-C25** 211778			1-pole Depth 75 mm Width 27 mm; 2-pole Depth 75 mm Width 54 mm
	32	**AZ-C32** 211779			**AZ-2-C32** 211780			**AZ-3-C32** 211781			**AZ-4-C32** 211782			**AZ-3N-C32** 211783			
	40	**AZ-C40** 211784			**AZ-2-C40** 211785			**AZ-3-C40** 211786			**AZ-4-C40** 211787			**AZ-3N-C40** 211788			
	50	**AZ-C50** 211789			**AZ-2-C50** 211790			**AZ-3-C50** 211791			**AZ-4-C50** 211792			**AZ-3N-C50** 211793			3-pole Depth 75 mm Width 81 mm; 4-pole; 3-pole + N Depth 75 mm Width 108 mm
	63	**AZ-C63** 211794			**AZ-2-C63** 211795			**AZ-3-C63** 211796			**AZ-4-C63** 211797			**AZ-3N-C63** 211798			
	80	**AZ-C80** 211799			**AZ-2-C80** 211800			**AZ-3-C80** 211801			**AZ-4-C80** 211802			**AZ-3N-C80** 211803			
	100	**AZ-C100** 211804			**AZ-2-C100** 211805			**AZ-3-C100** 211806			**AZ-4-C100** 211807			**AZ-3N-C100** 211808			
	125	**AZ-C125** 211809			**AZ-2-C125** 211810			**AZ-3-C125** 211811			**AZ-4-C125** 211812			**AZ-3N-C125** 211813			
Characteristic D Response current of short-circuit release $10 - 20 \times I_n$	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			**AZ-2-D63** 211819			**AZ-3-D63** 211820						**AZ-3N-D63** 211821			
	80	**AZ-D80** 211822			**AZ-2-D80** 211823			**AZ-3-D80** 211824						**AZ-3N-D80** 211825			
	100	**AZ-D100** 211826			**AZ-2-D100** 211827			**AZ-3-D100** 211828						**AZ-3N-D100** 211829			

Accessories	**Page**
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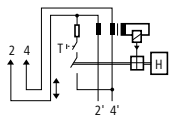
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		2-pole			4-pole			
								
	Rated uninterrupted current I_u A	**Type** Article no.	**Price** See Price List	Std. pack	**Type** Article no.	**Price** See Price List		Std. pack
FAZ residual-current protective modules								
Rated fault current $I_{\Delta N}$ = 30 mA	40	**FIM-40/2/0,03-A** 278510		1 off	**FIM-40/4/0,03-A** 278514			1 off
	63	**FIM-63/2/0,03-A** 278512		1 off	**FIM-63/4/0,03-A** 278516			1 off
Rated fault current $I_{\Delta N}$ = 300 mA	40	**FIM-40/2/0,3-A** 278511		1 off	**FIM-40/4/0,3-A** 278515			1 off
	63	**FIM-63/2/0,3-A** 278513		1 off	**FIM-63/4/0,3-A** 278517			1 off

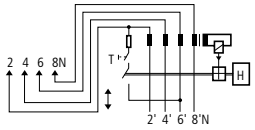
		2-pole			4-pole		4-pole Selective		
									
	Rated uninterrupted current I_u A	**Type** Article no.		Std. pack	**Type** Article no.		**Type** Article no.		Std. pack
AZ residual-current protective modules									
Rated fault current $I_{\Delta N}$ = 30 mA	80	–			**AZFIMP-4-80-003** 255484		–		1 off
	125	–			**AZFIMP-4-125-003** 255488		–		1 off
Rated fault current $I_{\Delta N}$ = 300 mA	80	**AZFIMP-2-80-03** 255477		1 off	**AZFIMP-4-80-03** 255485		**AZFIMS-4-80-03** 255492		1 off
	125	**AZFIMP-2-125-03** 255481		1 off	**AZFIMP-4-125-03** 255489		**AZFIMS-4-125-03** 255495		1 off

Notes

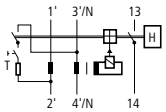
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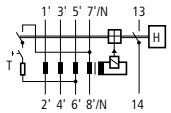
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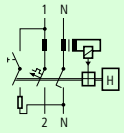


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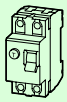
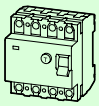
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2-pole



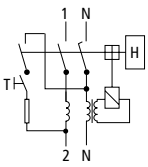
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PKNM combined RCD/MCB devices						
Characteristic B	6	**PKNM-6/1N/B/003-A-DW** 238580		**PKNM-6/1N/B/03-A-DW** 238582		1 off
	10	**PKNM-10/1N/B/003-A-DW** 238640		**PKNM-10/1N/B/03-A-DW** 238642		
	13	**PKNM-13/1N/B/003-A-DW** 238701		**PKNM-13/1N/B/03-A-DW** 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	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		

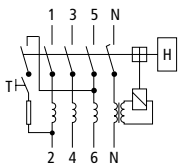
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	Rated uninterrupted current I_u A	2-pole  Type Article no.	Price See Price List	Std. pack	4-pole  Type Article no.	Price See Price List	Std. pack
FI residual-current circuit-breaker							
Rated fault current $I_{\Delta N}$ = 30 mA	16	**FI-16/2/003-A** 279183		1 off	–		
	25	**FI-25/2/003-A** 279184			**FI-25/4/003-A** 279213		1 off
	40	**FI-40/2/003-A** 279187			**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** 279164		
	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		1 off
	40	**FI-40/2/01-A** 279188			**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		1 off
	40	**FI-40/2/03-A** 279189			**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** 279166		
	125	–			**FI-125/4/03-A** 279167		
Rated fault current $I_{\Delta N}$ = 500 mA	25	–			**FI-25/4/05-A** 279216		1 off
	40	–			**FI-40/4/05-A** 279220		
	63	–			**FI-63/4/05-A** 279224		
	80	–			**FI-80/4/05-A** 279227		
	100	–			**FI-100/4/05-A** 279168		
	125	–			**FI-125/4/05-A** 279169		

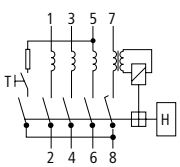
Notes

≦ 80 A



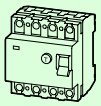


100, 125 A



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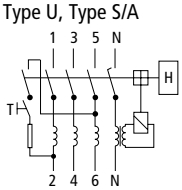
4-pole



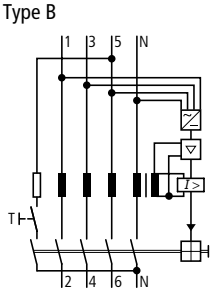
	Rated uninterrupted current I_u A	Type Article no.		Std. pack
Suitable for frequency inverters				
Rated fault current $I_{\Delta N}$ = 100 mA	40	**FI-40/4/01-U** 279234		1 off
	63	**FI-63/4/01-U** 279236		1 off
Rated fault current $I_{\Delta N}$ = 300 mA	40	**FI-40/4/03-U** 279235		1 off
	63	**FI-63/4/03-U** 279237		1 off
Selective and surge-proof 5 kA				
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				
Rated fault current $I_{\Delta N}$ = 100 mA	40	**FI-40/4/01-B** 279170		1 off
	63	**FI-63/4/01-B** 279171		
	80	**FI-80/4/01-B** 279172		
Rated fault current $I_{\Delta N}$ = 300 mA	40	**FI-40/4/03-B** 279173		1 off
	63	**FI-63/4/03-B** 279174		
	80	**FI-80/4/03-B** 279175		
AC/DC, selective				
Rated fault current $I_{\Delta N}$ = 300 mA	40	**FI-40/4/03-S/B** 281022		1 off
	63	**FI-63/4/03-S/B** 281023		
	80	**FI-80/4/03-S/B** 281024		

Notes

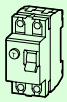
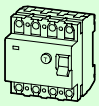
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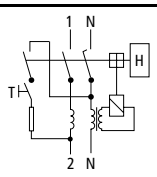
Type B

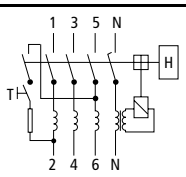


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	Rated uninterrupted current I_u A	2-pole  Type Article no.	Price See Price List	Std. pack	4-pole  Type Article no.	Price See Price List	Std. pack
Rated fault current I_{DN} = 30 mA	16	**FI-16/2/003** 279176		1 off	–		
	25	**FI-25/2/003** 279177			**FI-25/4/003** 279196		1 off
	40	**FI-40/2/003** 279180			**FI-40/4/003** 279200		
	63	**FI-63/2/003** 279190			**FI-63/4/003** 279204		
	80	**FI-80/2/003** 279192			**FI-80/4/003** 279208		
Rated fault current $I_{\Delta N}$ = 100 mA	25	**FI-25/2/01** 279178		1 off	**FI-25/4/01** 279197		1 off
	40	**FI-40/2/01** 279181			**FI-40/4/01** 279201		
	63	**FI-63/2/01** 279191			**FI-63/4/01** 279205		
	80	**FI-80/2/01** 279193			**FI-80/4/01** 279231		
Rated fault current $I_{\Delta N}$ = 300 mA	25	**FI-25/2/03** 279179		1 off	**FI-25/4/03** 279198		1 off
	40	**FI-40/2/03** 279182		1 off	**FI-40/4/03** 279202		
	63	–			**FI-63/4/03** 279206		
	80	–			**FI-80/4/03** 279209		
Rated fault current $I_{\Delta N}$ = 500 mA	25	–			**FI-25/4/05** 279199		1 off
	40	–			**FI-40/4/05** 279203		
	63	–			**FI-63/4/05** 279207		
Selective and surge-proof 5 kA							
Rated fault current $I_{\Delta N}$ = 100 mA	63	–			**FI-63/4/01-S** 279210		1 off
Rated fault current $I_{\Delta N}$ = 300 mA	63	–			**FI-63/4/03-S** 279211		1 off
	80	–			**FI-80/4/03-S** 279212		1 off

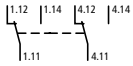
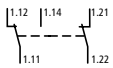
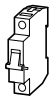
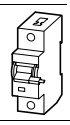
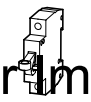
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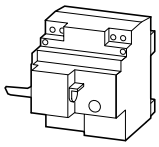


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Circuit diagram	Contacts Qty.	Space units 1 PLE = 18 mm PE	**Type** Article no.	**Price** See Price List	Std. pack	**Notes**
Auxiliary contacts and voltage releases						
Auxiliary contacts for FAZ, AZ, PKNM						
Up to 63 A for FAZ, PKNM						
 	1 M/1 B	0,5	**FAZ-XHI11** 262413		10 off	–
Up to 125 A for AZ						
 	1 M/1 B	0,5	**AZ-XHI11** 212067		8 off	–
Trip-indicating auxiliary contact/auxiliary contact Up to 63 A for FAZ, PKNM						
 	2 C/O	0.5	**FAZ-XAM002** 262414		10 off	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. Circuit diagram → Technical Data for Auxiliary Contacts, Voltage Releases
Auxiliary contact for FI						
Up to 80 A						
 	1 M/1 B	0,5	**FIP-XHI11** 225121		10 off	–
From 100 A and Type B						
 	1 M/1 B	0,5	**FIPA-XAM011** 262578		1 off	The device is supplied with the "Auxiliary contact" function set such that both contacts switch on manual **and** electrical tripping. A change of function to "Signalling switch" means that both contacts switch **only** under fault conditions. AC-11, 230 V DC/6 A DC-11, 230 V DC/1 A Minimum voltage: 12 V AC/DC Minimum current: 100 mA Terminal capacity: 1 × 2.5 mm², 2 × 1.5 mm² Max. tightening torque: 0.8 Nm
Shunt releases for FAZ, PKNM						
Up to 63 A						
 	–	1	**FAZ-XAA-C-12-110VAC** 278518		1 off	–
	–	1	**FAZ-XAA-C-110-415VAC** 278519		1 off	–
Shunt releases for AZ						
Up to 125 A						
 	–	1,5	**AZ-XAA(12-60VAC)** 212059		8 off	–
	–	1,5	**AZ-XAA(110-415VAC)** 212061		8 off	–
Undervoltage releases for FAZ						
 	–	1	**FAZ-XUA(115VAC)** 212049		7 off	–
	–	1	**FAZ-XUA(230VAC)** 212051			–
	–	1	**FAZ-XUA(400VAC)** 212053			–
MCB lock						
			**FAZ/FIP-XSV** 233778		5 off	–

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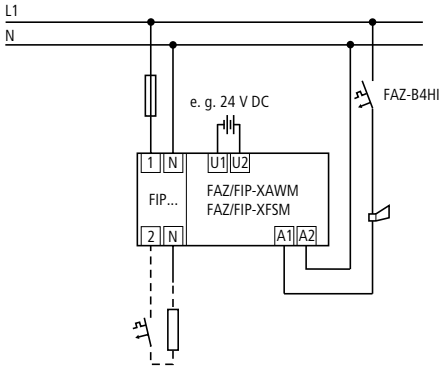
	Type Article no.	Std. pack	Notes
Remote switching module			
			
With remote control and FI testing	**FAZ/FIP-XFSM** 212069	1 off	• IEC/EN 60669-2-2 • For remote switching and automatic restart of FAZ miniature circuit-breakers and FI residual-current circuit-breakers up to 80 A, except Type B • For remote testing of FI devices in conjunction with the FIP-XPM test module (-XFSM) • Can be mechanically interlocked and sealed • 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 operational voltage 24 – 240 V AC, 24 – 80 V DC • Control voltage for remote control 24 – 230 V AC/DC • Relay output for tripping test 400 V AC • Terminal capacity 2 × 1.5 mm², 1 × 1.5 mm²; 0.4 Nm • Lifespan, mechanical/electrical 10 000 switching operations • Intrinsic power consumption 5 W
220 – 240 V-AC	**FAZ/FIP-XAWM** 262514		
48 V DC	**FAZ/FIP-XDWM** 274404		

Notes

Circuit examples (note installation instructions!)

FAZ/FIP-XAWM, FAZ/FIP-XFSM

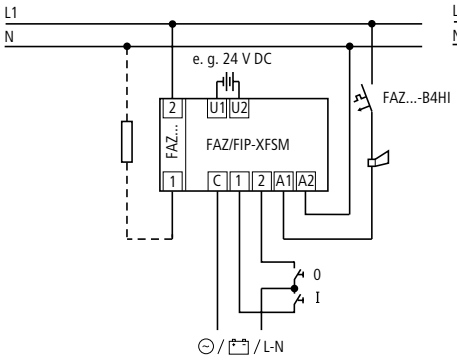
Automatic resetting (1x or 5x):
(max. 5 s; 10 s; 1 min; 10 min; 1 h)



After unintended tripping or a brief disruption, the installation is immediately ready for renewed operation.

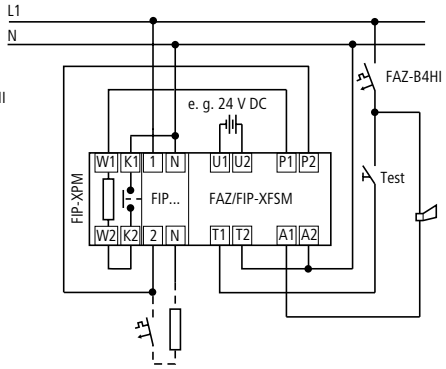
FAZ/FIP-XFSM

Remote switching:



FAZ/FIP-XFSM, FIP-XPM...

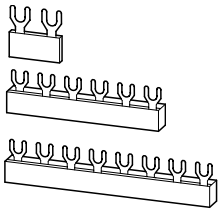
Remote tripping test:
(Monitoring possible via alarm contact or auxiliary contact)

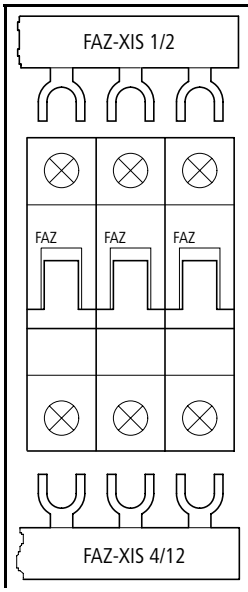


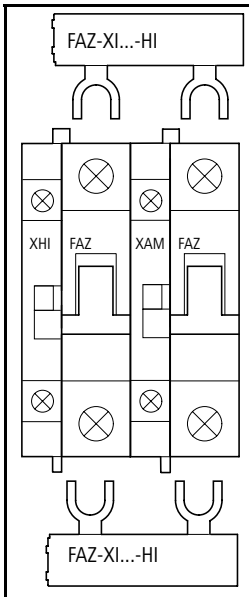
Function control of residual-current circuit-breakers by the electrical equivalent to pressing the test button.

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	Phases	Rated operational current	Type Article no.		Std. pack	Notes
		I_e				
	Qty.	A				
Commoning busbars, 1.25 mm thick						
For miniature circuit-breakers **without** auxiliary contacts With fork connectors, for combination box terminal						
	1	85	**FAZ-XIS1/2** 212121		20 off	–
	1	85	**FAZ-XIS1/6** 212122			–
	1	85	**FAZ-XIS1/12** 212123			–
	2	100	**FAZ-XIS2/4** 212124		10 off	2- and 4-pole version can also be used for FI switches
	2	100	**FAZ-XIS2/6** 212125			
	2	100	**FAZ-XIS2/12** 212126			
	3	100	**FAZ-XIS3/6** 212127			–
	3	100	**FAZ-XIS3/12** 212128			–
	4	100	**FAZ-XIS4/8** 212129		5 off	2- and 4-pole version can also be used for FI switches
	4	100	**FAZ-XIS4/12** 212130			
For miniature circuit-breakers **with** auxiliary contacts						
	1	85	**FAZ-XIS1/2-HI** 212131		20 off	–
	1	85	**FAZ-XIS1/6-HI** 212132			–
	1	85	**FAZ-XIS1/9-HI** 212133			–
	2	100	**FAZ-XIS2/4-HI** 212134		10 off	–
	2	100	**FAZ-XIS2/6-HI** 212135			–
	2	100	**FAZ-XIS2/10-HI** 212136			–
	3	100	**FAZ-XIS3/6-HI** 212137			–
	3	100	**FAZ-XIS3/12-HI** 212138			–
	3	100	**FAZ-XIS31/6-HI** 212139			1 auxiliary contact per pole
	3	100	**FAZ-XIS31/8-HI** 212140			
	3	100	**FAZ-XIS31/9-HI** 212141			



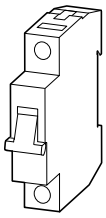
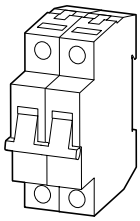
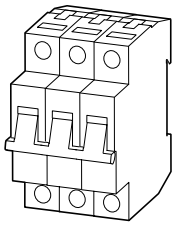
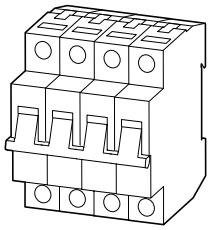


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		Poles	Rated operational current I_e A	Cross-section mm²	Length m	**Type** Article no.	Std. pack
Comb-shaped phase busbar (obtainable by the metre with fork connectors)							
		1	80	16	1	**Z-GV-16/1P-1TE** 271061	50 off
		3	63	10	1	**Z-GV-10/3P-3TE** 271060	20 off
	End cap	3		10		**Z-AK-10/2+3P** 271069	10 off
		3	80	16	1	**Z-GV-16/3P-3TE** 271064	20 off
	End cap	3		16		**Z-AK-16/2+3P** 271070	10 off
		4	80	16	1	**Z-GV-16/3P+N-4TE** 271066	15 off
	End cap	4		16		**Z-AK-16/4P** 271071	10 off
Feeder block							
	With centre feed max. 125 A			1 × 25 1 × 50		**FAZ/FIP-XVS-KL** 212109	12 off
Incoming terminals							
	Touch-proof busbar connection to miniature circuit-breaker			25		**FAZ-XK25** 212116	50 off
	Touch-proof connection to FAZ-XIS... busbar			35		**FAZ-XK35** 212119	10 off
Protection against direct contact							
	For masking of unused connections on the busbar					**FAZ-XBS** 212120	10 off
	Bracket for securing of covers 2 off required per row of MCBs					**REG-BB** 212106	20 off

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	Rated uninterrupted current I_u A	Poles	Type Article no.		Std. pack
Main switches/Isolating switches					
	40	1	**IS-40/1** 276270		12 off
	63	1	**IS-63/1** 276274		
	80	1	**IS-80/1** 276278		
	100	1	**IS-100/1** 276282		
	125	1	**IS-125/1** 276286		
	40	2	**IS-40/2** 276271		1 off
	63	2	**IS-63/2** 276275		
	80	2	**IS-80/2** 276279		
	100	2	**IS-100/2** 276283		
	125	2	**IS-125/2** 276287		
	32	3	**IS-32/3** 276268		
	40	3	**IS-40/3** 276272		
	63	3	**IS-63/3** 276276		
	80	3	**IS-80/3** 276280		
	100	3	**IS-100/3** 276284		
	125	3	**IS-125/3** 276288		
	40	4	**IS-40/4** 276273		
	63	4	**IS-63/4** 276277		
	80	4	**IS-80/4** 276281		
	100	4	**IS-100/4** 276285		
	125	4	**IS-125/4** 276289		

Notes

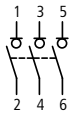
1-pole



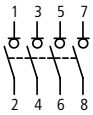
2-pole



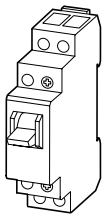
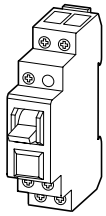
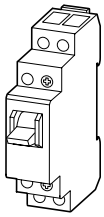
3-pole



4-pole

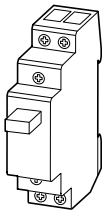
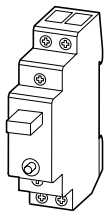
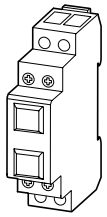
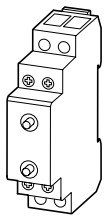


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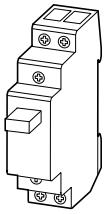
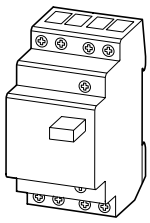
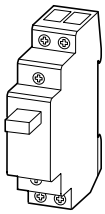
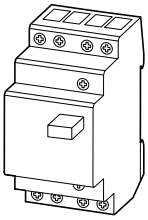
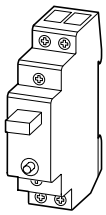
		Contacts	**Rated current** 16 A **Type** Article no.		**Rated current** 32 A **Type** Article no.		Std. pack
On/Off switches with and without indicator light							
On/Off switches							
Without indicator light 		1 M	**Z-S/S** 248332		**Z-S32/S** 248339		12 off
		2 M	**Z-S/SS** 248333		**Z-S32/SS** 248340		
		3 M	**Z-S/3S** 248334		**Z-S32/3S** 248341		
		4 M	**Z-S/4S** 248335		**Z-S32/4S** 248342		
		1 M + 1 B	**Z-S/SO** 248336		–		
		2 M + 2 B	**Z-S/SSOO** 248337		–		
		3 M + 1 B	**Z-S/3S1O** 248338		–		
With indicator light 		1 M	**Z-SL/S** 248314		**Z-SL32/S** 248317		
		2 M	**Z-SL/SS** 248315		**Z-SL32/SS** 248318		
		3 M	**Z-SL/3S** 248316		**Z-SL32/3S** 248319		
Changeover switches							
2 positions 		1 M	**Z-SW/S** 276300		–		2 off
		2 M	**Z-SW/SS** 276301		–		2 off
		1 W	**Z-S/WE** 248343		–		12 off
		2 C/O	**Z-S/2WE** 248344		–		12 off
	With LED 24 V AC/DC	2 M	**Z-SWL24/SS** 276304		–		2 off
	With LED 230 V AC/DC	2 M	**Z-SWL230/SS** 276306		–		2 off
	With LED 24 V AC/DC	1 M + 1 B	**Z-SWL24SO** 276305		–		2 off
	With LED 230 V AC/DC	1 M + 1 B	**Z-SWL230/SO** 276307		–		2 off
3 positions I – 0 – II							
		1 W	**Z-S/WM** 248345		–		12 off
		2 C/O	**Z-S/2WM** 248346		–		12 off

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		Contacts	Colour	Type Article no.	Std. pack
Pushbuttons					
		1 M		**Z-PU/S** 276291	2 off
		2 M		**Z-PU/SS** 276292	
		1 M + 1 B		**Z-PU/SO** 276293	
		3 M + 1 B	Black	**Z-T/3S1O** 248330	12 off
		4 M	Green	**Z-T/4S-G** 248328	12 off
Illuminated pushbuttons					
		1 M	Green	**Z-LT/S-G** 248309	12 off
		2 M + 1 B	Black	**Z-LT/SSO** 248313	
		3 M	Green	**Z-LT/3S-G** 248311	
	With LED, 24 V AC/DC	1 M + 1 B		**Z-PUL24/SO** 276296	2 off
	With LED, 230 V AC/DC	1 M + 1 B		**Z-PUL230/SO** 276298	
	With LED, 24 V AC/DC	2 M		**Z-PUL24/SS** 276295	
	With LED, 230 V AC/DC	2 M		**Z-PUL230/SS** 276297	
Indicator lights					
			Clear	**Z-L/DKL** 248308	12 off
			Blue	**Z-L/B** 248306	12 off
Signal lamps					
	24 V AC/DC		Red/green	**Z-EL24** 274419	2 off
	24 V AC/DC		Orange	**Z-EL/OR24** 275444	
	230 V AC/DC		Red/green	**Z-EL230** 275656	
	230 V AC/DC		Orange	**Z-EL/OR230** 275865	
	2 × 24 V AC/DC		Red/green	**Z-DL24** 270590	
	2 × 230 V AC/DC		Red/green	**Z-DL230** 270589	
Accessories for illuminated pushbuttons, indicator lights					
	Neon bulb, 230 V			**Z-GLI/230** 248320	1 off
	Filament bulb, 24 V			**Z-GL_/24** 248321	1 off
	Cap: red			**Z-KAL/ROT** 248322	10 off
	Cap: green			**Z-KAL/GR_N** 248323	
	Cap: clear			**Z-KAL/KLAR** 248324	

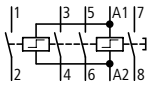
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	Actuating voltage	Function	Space units	**Type** Article no.	Std. pack
Impulse relays					
	230 V AC	1 M	1	**Z-S230/S** 265262	2 off
	230 V AC	2 M	1	**Z-S230/SS** 265271	
	230 V AC	1 C/O	1	**Z-S230/W** 265290	
	24 V AC	1 M	1	**Z-S24/S** 256535	
	24 V AC	1 M + 1 B	1	**Z-S24/SO** 265539	
	12 V AC	1 M	1	**Z-S12/S** 265266	
	12 V AC	1 M + 1 B	1	**Z-S12/SO** 265287	
	8 V AC	1 M	1	**Z-S8/S** 265267	
	230 V AC	4 M	2	**Z-S230/4S** 270335	1 off
	230 V AC	2 C/O	2	**Z-S230/WW** 265312	1 off
	230 V AC	1 M + 1 B	2	**Z-S230/SO** 265283	2 off
	230 V AC	2 M + 2 B	2	**Z-S230/2S2O** 265305	1 off
With central control					
 	230 V AC	1 M	1	**Z-SC230/S** 265299	2 off
	24 V AC	1 M	1	**Z-SC24/S** 265300	2 off
	230 V AC	1 M + 1 C/O	2	**Z-SC230/1S1W** 265324	1 off
	230 V AC	2 M + 1 B	2	**Z-SC230/2S1O** 265327	
	230 V AC	3 M	1	**Z-SC230/3S** 265321	
With switchable LED					
	230 V AC	2 M	1	**Z-SB230/SS** 265301	2 off
	24 V AC	2 M	1	**Z-SB24/SS** 265302	
	24 V DC	2 M	1	**Z-SB23/SS** 265303	

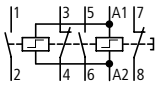
Notes For other contact configurations and actuating voltages, please enquire.

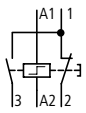
1 M

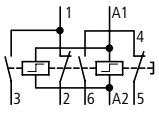

2 M


4 M


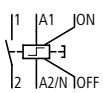
1 M + 1 B

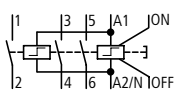

2 M + 2 B


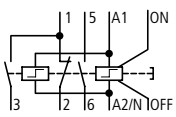
1 C/O


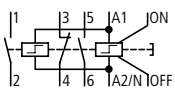
2 C/O


With central control

1 M


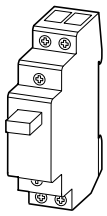
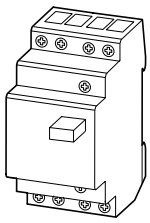
3 M


1 M + 1 C/O


2 M + 1 B


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	Actuating voltage	Function	Space units	Type Article no.		Std. pack
Installation relays						
With manual operation						
	230 V AC	1 M	1	**Z-R230/S** 265149		2 off
	230 V AC	2 M	1	**Z-R230/SS** 265168		
	230 V AC	1 M + 1 B	1	**Z-R230/SO** 265181		
	230 V AC	2 B	1	**Z-R230/OO** 265188		
	24 V AC	1 M	1	**Z-R24/S** 265160		
	24 V AC	2 M	1	**Z-R24/SS** 265173		
	24 V AC	1 M + 1 B	1	**Z-R24/SO** 265183		
	24 V DC	1 M	1	**Z-R23/SS** 265174		
	12 V AC	1 M	1	**Z-R12/S** 265162		
	12 V AC	2 M	1	**Z-R12/SS** 265175		
	12 V AC	1 M + 1 B	1	**Z-R12/SO** 265185		
	8 V AC	2 M	1	**Z-R8/SS** 265177		
	8 V AC	1 M + 1 B	1	**Z-R8/SO** 265187		
	230 V AC	4 M	2	**Z-R230/4S** 265226		1 off
	230 V AC	2 M + 2 B	2	**Z-R230/2S2O** 265215		
	230 V AC	3 M + 1 B	2	**Z-R230/3S1O** 265221		
	24 V AC	4 M	2	**Z-R24/4S** 265227		
	24 V AC	2 M + 2 B	2	**Z-R24/2S2O** 265218		
	24 V DC	2 M + 2 B	2	**Z-R23/2S2O** 265219		

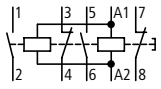
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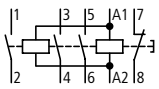
1 M

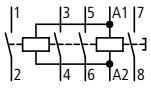

2 M


1 M + 1 B

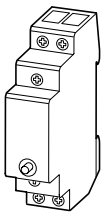
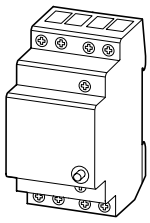
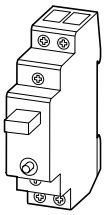
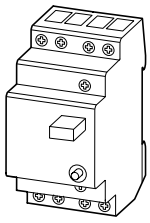

2 B


2 M + 2 B


3 M + 1 B


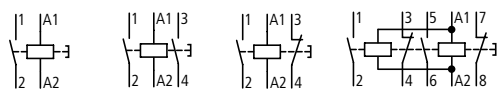
4 M


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	Actuating voltage	Function	Space units	**Type** Article no.		Std. pack
Installation relays						
With LED Without manual actuation						
	230 V AC	1 M	1	**Z-RE230/S** 265190		2 off
	230 V AC	2 M	1	**Z-RE230/SS** 265193		
	230 V AC	1 M + 1 B	1	**Z-RE230/SO** 265197		
	24 V AC	2 M	1	**Z-RE24/SS** 265194		
	24 V AC	1 M + 1 B	1	**Z-RE24/SO** 265198		
	24 V DC	2 M + 2 B	2	**Z-RE23/2S2O** 265232		1 off
With LED With manual actuation						
	230 V AC	1 M	1	**Z-RK230/S** 265200		2 off
	230 V AC	2 M	1	**Z-RK230/SS** 265203		
	230 V AC	1 M + 1 B	1	**Z-RK230/SO** 265208		
	24 V AC	2 M	1	**Z-RK24/SS** 265205		
	24 V AC	1 M + 1 B	1	**Z-RK24/SO** 265209		
	24 V DC	2 M + 2 B	2	**Z-RK23/2S2O** 271464	15	1 off
Accessories						
Spacer 0.5 space unit			0.5	**Z-DST** 248949		10 off

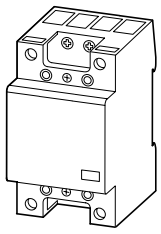
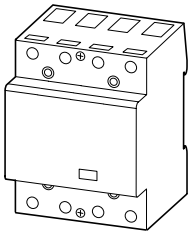
Notes For other contact configurations and actuating voltages, please enquire.

1 M 2 M 1 M + 1 B 2 M + 2 B



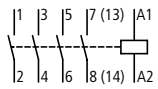
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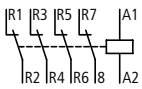
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		V AC	A				
Installation contactors							
		230	25	4 M	**Z-SCH230/25-40** 248847		1 off
		230	25	4 B	**Z-SCH230/25-04** 248848		
		230	25	3 M + 1 B	**Z-SCH230/25-31** 248846		
		230	25	2 M + 2 B	**Z-SCH230/25-22** 248849		
		24	25	4 M	**Z-SCH24/25-40** 248851		
		24	25	2 M + 2 B	**Z-SCH24/25-22** 248850		
		230	40	2 M	**Z-SCH230/40-20** 248855		
		230	40	2 M + 2 B	**Z-SCH230/40-22** 248853		
		230	40	3 M + 1 B	**Z-SCH230/40-31** 248854		
		230	63	4 M	**Z-SCH230/40-40** 248852		
		230	63	2 M	**Z-SCH230/63-20** 248859		
		230	63	2 M + 2 B	**Z-SCH230/63-22** 248857		
		230	63	3 M + 1 B	**Z-SCH230/63-31** 248858		
Sealing cap							
	2 space units				**Z-SCHAK-2TE** 248860		10 off
	3 space units				**Z-SCHAK-3TE** 248861		10 off
Auxiliary contacts							
				1 M + 1 B	**Z-SC** 248862		3 off
Spacer							
	0.5 space unit				**Z-DST** 248949		10 off

Notes For other contact configurations and actuating voltages, please enquire.

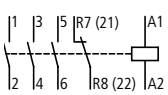
4 M



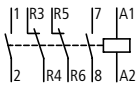
4 B



3 M + 1 B



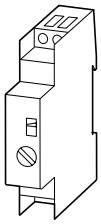
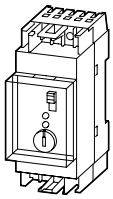
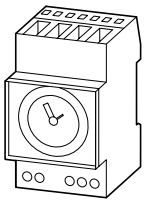
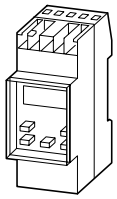
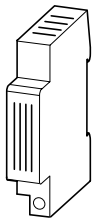
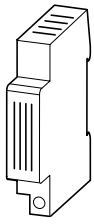
2 M + 2 B



2 M

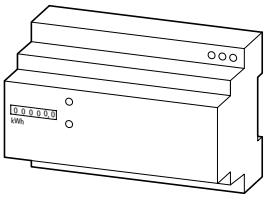
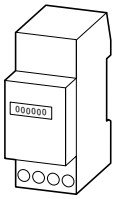
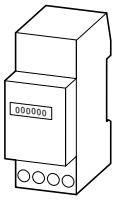
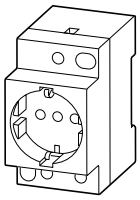


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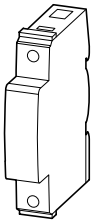
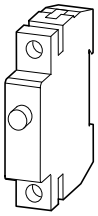
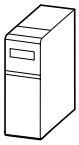
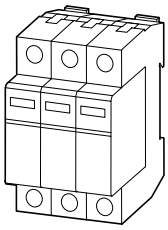
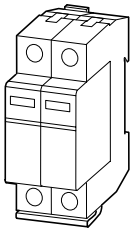
				Actuating voltage V AC	Type Article no.		Std. pack
Staircase timers							
	Configurable				**Z-TLG** 268174		2 off
Light intensity switch with sensor							
					**Z-LMS** 248218		1 off
	Spare sensor				**D35/3/SENSOR** 219019		1 off
Time switches							
Analog							
	Synchronous	Day	1 channel		**SU-GS/1W-TA** 268626		2 off
	Synchronous	Week	1 channel		**SU-GS/1W-WO** 268627		
	Quartz	Day	1 channel		**SU-GQ-TA** 268628		
	Quartz	Day	1 channel		**SU-GQ/1W-TA** 268629		
	Quartz	Week	1 channel		**SU-GQ/1W-WO** 268630		
	Quartz	Day + week	2 channels		**SU-GQ/2W-TW** 268631		1 off
Digital							
	Quartz	Day	1 channel		**Z-SDM/1K-TA** 248210		1 off
	Quartz	Week	1 channel		**Z-SDM/1K-WO** 248211		
	Quartz	Week	2 channels		**Z-SDM/2K-WO** 248212		
Buzzers							
				230 V AC	**Z-SUM230** 270584		2 off
				24 V AC	**Z-SUM24** 270583		
				12 V AC	**Z-SUM12** 271087		
Bells							
				230 V AC	**Z-GLO230** 270586		2 off
				24 V AC	**Z-GLO24** 270585		
				12 V AC	**Z-GLO12** 271088		

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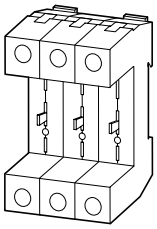
		Actuating voltage V AC			Type Article no.		Std. pack
Power meters							
	5 + 2-digit Transformer connection .../5 A	230/400			**Z-KWZ/400/3-CT** 263134		1 off
	6 + 1-digit Direct connection 63 A	230/400			**Z-KWZ/400/3-63** 263133	15	1 off
Hours-run counters							
	5 + 2-digit	230			**BSZ/230** 276309	15	1 off
	5 + 2-digit	24			**BSZ/24** 276308	15	1 off
Pulse counter							
	7-digit	230			**Z-IMZ/230** 248206	15	1 off
Plug socket							
		230			**Z-SD230** 266875		10 off

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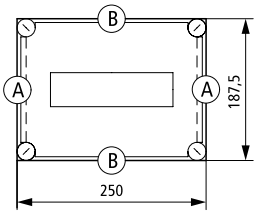
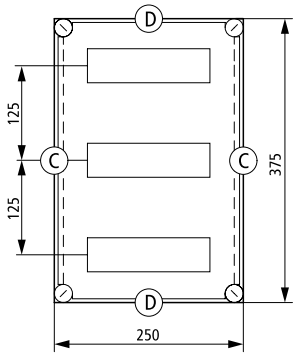
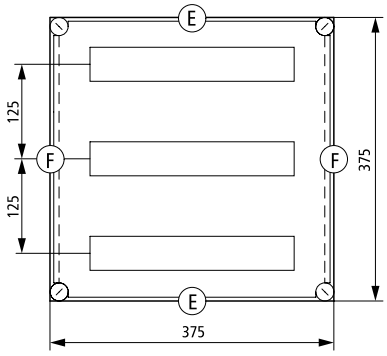
	Description	Lightning surge current I_{imp} (10/350 µs) kA	Maximum uninterrupted voltage U_c	Rated arrester discharge current I_N (8/20 µs) kA	Type Article no.	Std. pack
Lightning current arresters, arrester Class B						
		35			**SPI-35/440** 263137	6 off
		50			**SPI-50/NPE** 263138	2 off
		100			**SPI-100/NPE** 263139	1 off
Overvoltage arresters, arrester Class C						
	L-PE(N) terminal in TN systems L-N terminal in TT systems		280	20	**SPC-E-280** 248150	1 off
	L-PE(N) terminal in TN systems L-N terminal in TT systems		280	25	**SPC-EH-280** 248155	12 off
	L-N and N-PE terminals in IT-systems		460	20	**SPC-E-460** 248153	12 off
	N-PE terminal in TN and TT-systems			20	**SPC-E-N/PE** 248157	12 off
Overvoltage arresters, plug-in units, arrester Class C						
1-pole						
	L-PE(N) in TN systems L-N in TT systems			20	**SPC-S-20/280** 248161	4 off
	L-N and N-PE in IT-systems			20	**SPC-S-20/460** 248164	4 off
	N-PE in TN and TT systems			20	**SPC-S-N/PE** 248166	4 off
Overvoltage arresters, complete, arrester Class C						
	1-pole, 280 V AC			20	**SPC-S-20/280/1** 248172	12 off
	2-pole, 280 V AC			20	**SPC-S-20/280/2** 248173	1 off
	3-pole, 280 V AC			20	**SPC-S-20/280/3** 248174	1 off
	4-pole, 280 V AC			20	**SPC-S-20/280/4** 248175	1 off
	1-pole, 460 V AC			20	**SPC-S-20/460/1** 248184	12 off
	2-pole, 460 V AC			20	**SPC-S-20/460/2** 248185	1 off
	3-pole, 460 V AC			20	**SPC-S-20/460/3** 248186	1 off
	1 + 1 TN-S, TT system				**SPC-S-1+1** 248192	1 off
	3 + 1 TN-S, TT system				**SPC-S-3+1** 248193	1 off
Surge protective devices for TN, TT systems, arrester Class D						
	Complete unit				**SPD-S-1+1** 248202	1 off
	N-PE insert module				**SPD-S-N/PE** 248199	4 off
	L-N insert module				**SPD-S-L/N** 248200	4 off
	Complete unit in flush mounting box				**VDK-280ES** 215893	1 off
	Base for VDK				**VDK-280S** 215891	1 off
	Insert				**VDK-280E** 215892	1 off

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	Number of poles		Cross-section mm²		Type Article no.	Std. pack
Lead-through terminal for B-type arresters						
					SPB-D-125 248145	2 off
Busbars for B-type arresters						
	2	Single-phase	16		**Z-GV-U/2** 272588	20 off
	3		16		**Z-GV-U/3** 272589	
	4		16		**Z-GV-U/4** 274080	
	5		16		**Z-GV-U/5** 274081	
	6		16		**Z-GV-U/6** 274082	
	8		16		**Z-GV-U/8** 274083	
	9		16		**Z-GV-U/9** 274084	
	6	Three-phase	16		**Z-GV-16/3P-3TE/6** 267511	12 off
Designation label for SPI L1, L2, L3, N, earth						
					SPI-BZS-L/N/PE 267408	10 off
Bases for SPC						
	1				**SPC-S-S1** 248167	12 off
	1 + 1				**SPC-S-S2-1+1** 248201	6 off
	2				**SPC-S-S2** 248168	6 off
	3				**SPC-S-S3** 248169	4 off
	4				**SPC-S-S4** 248170	3 off
	3 + 1				**SPC-S-S4-3+1** 248171	3 off
Auxiliary contact for SPC-S and SPD-S					**SPC-S-HK** 248203	8 off
Lead-through terminal for C-type arresters						
					Z-D63 248267	12 off
Busbars for C-type arresters						
	2 space units	Single-phase			**ZV-KSBI-2TE** 263961	10 off
	3 space units				**ZV-KSBI-3TE** 263962	
	3 space units				**ZV-KSBI-3TE/S** 263963	
	4 space units				**ZV-KSBI-4TE** 263964	
	5 space units				**ZV-KSBI-5TE** 263965	
	5 space units				**ZV-KSBI-5TE/N** 263966	
	7 space units				**ZV-KSBI-7TE** 263967	50 off
	7 space units				**ZV-KSBI-7TE/N** 263969	10 off
	11 space units				**ZV-KSBI-11TE** 263970	50 off

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Dimensions mm	Single-pole miniature circuit-breakers Qty.	PE and N terminals Quantity × cross-section mm²	Features	**Type** Article no.	**Price** See Price List	Std. pack
Individual miniature circuit-breaker enclosures						
• Metric cable entry knockouts in all sides • Degree of protection IP65 • Devices that can be fitted: frame size 1 to DIN 43880 • Transparent cover with quick-release fasteners, transparent door for operator access to devices fitted • Mounting rails for snap fitting of devices • Blanking strip for unused mounting locations, protective cover with marking strip • PE/N bars • Fixing straps for wall mounting, sealable cover fasteners • Enclosure depth 150 mm						
	9	On each: 2 × (6 – 16) On each: 7 × (1 – 4)	Transparent cover	**AE/I23E** 029766		1 off
	9	On each: 2 × (6 – 16) On each: 7 × (1 – 4)	Transparent door	**AE/I23E/T** 032139		
	27	On each: 4 × (6 – 35) On each: 20 × (1 – 4)	Transparent cover	**AE/I43E** 000239		
	27	On each: 4 × (6 – 35) On each: 20 × (1 – 4)	Transparent door	**AE/I43E/T** 002612		
	45	On each: 4 × (6 – 35) On each: 20 × (1 – 4)	Transparent cover	**AE/I44E** 004985		
	45	On each: 4 × (6 – 35) On each: 20 × (1 – 4)	Transparent door	**AE/I44E/T** 061937		

Notes

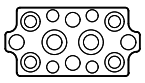
– – – PE/N bars

A



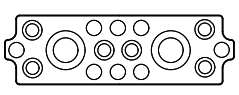
1 × M32/20
6 × M20
2 × M16

B



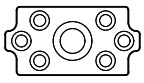
2 × M32/20
4 × M25/16
4 × M20
4 × M16

C



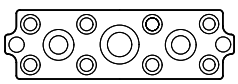
2 × M50/32
6 × M25/16
8 × M20

D



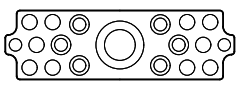
1 × M50/32
6 × M25/16

E



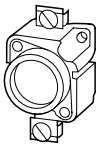
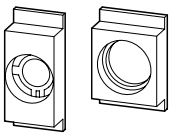
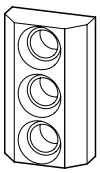
1 × M50/32 8 × M25/16
2 × M40/25 2 × M20

F

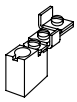


1 × M63/40 10 × M20
6 × M25/16 2 × M16

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	Rated operational current I_e A	Rated operational voltage U_e V AC	Fuse link Size	**Type** Article no.	**Price** See Price List	Std. pack	
Fuse bases, 1-pole							
For gauge ring system (gauge screw: /FORMP)							
Screw fixing (holes for M4 screws)							
	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, DII	**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)							
	16	380 400	E14, D01	**S14-1/C** 081457		10 off	
	25	500	E27, DII	**S27-1/C** 048238		20 off	
	25	500	E27, DII	**S27-1/C/FORMP** 025073		20 off	
	63	380 400	E18. D02	**S18-1/C** 088576		10 off	
	63	660 690	E33, DIII	**S33-1/C** 071968		2 off	
	63	660 690	E33, DIII	**S33-1/C/FORMP** 027446		2 off	
Covers for 1-pole fuse bases							
Standard front dimension 45 mm							
	–	–	–	**P-E14** 086182		20 off	
	–	–	–	**P-E18** 088555		20 off	
	–	–	–	**P-E27** 090928		10 off	
	–	–	–	**P-E33** 093301		10 off	
Transparent shroud							
With cable entry knockouts top and bottom							
	–	–	–	**H-S27-1** 029118		10 off	
Fuse bases, 3-pole							
For gauge ring system system (gauge screw: /FORMP)							
Screw fixing (holes for M4 screws)							
	25	500	E27, DII	**S27** 043492		4 off	
	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)							
	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	

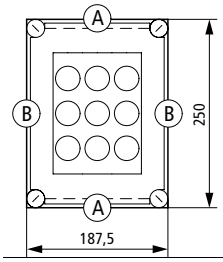
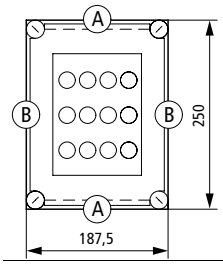
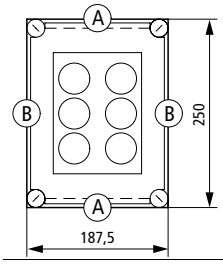
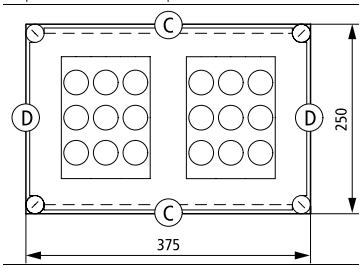
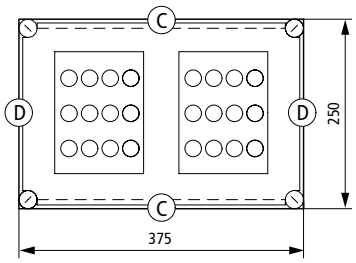
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	For use with	Terminal capacity, round conductor mm²	Cu factor Please enquire	**Type** Article no.	**Price** See Price List	Std. pack	**Notes**
Notched phase busbars, can be cut to length							
990 mm long, for max. 36 fuse bases, rated current 100 A	S14-1/C	–		**KS14** 050502		5 off	–
990 mm long, for max. 36 fuse bases, rated current 160 A	S18-1/C	–		**KS18** 052875			–
980 mm long, for max. 22 fuse bases, rated current 100 A	S27-1/C	–		**KS27** 055248			–
960 mm long, for max. 18 fuse bases, rated current 160 A	S33-1/C	–		**KS33** 059994			–
Terminals							
For round conductor up to 35 mm² or flat strip conductor 6 × 9 × 0.8							
	KS14 – KS33	–		**K35-AB** 064339		20 off	–
For retrofitting as PE/N terminal							
	S27/1	⊙ 1.5 – 6		**K6/1** 002270		100 off	Terminal capacity ⊙ Solid ⊙ Stranded ⊛ Flexible with ferrule
	S33/1	⊙ 4 – 16 ⊙ 4 – 16 ⊛ 4 – 10		**K16/1** 002272		25 off	

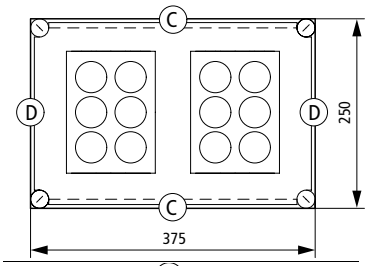
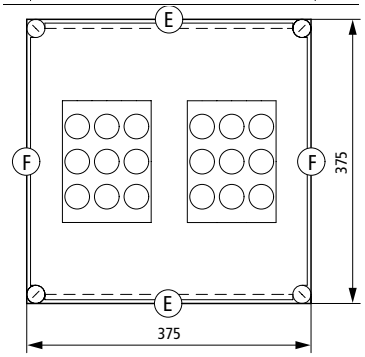
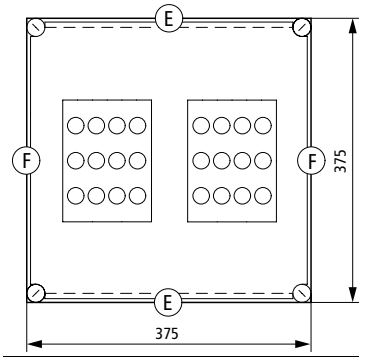
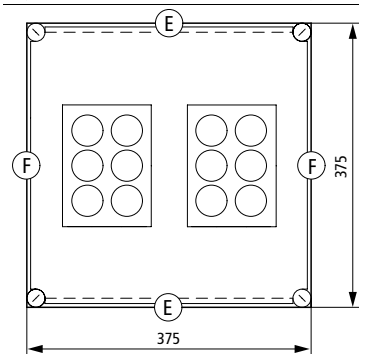
	Dimensions (W × H × D) mm	Rated operational current I_e A	Cu factor Please enquire	**Type** Article no.	**Price** See Price List	Std. pack
Busbars						
Flat copper busbars, tinned						
	12 × 5, supplied in lengths of 1500 mm	160		**CU12X5** 034121		10 off
	20 × 5, supplied in lengths of 1500 mm	250		**CU20X5** 044092		10 off
	20 × 10, supplied in lengths of 1500 mm	400		**CU20X10** 041719		5 off

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Dimensions mm	Rated operational current I_e A	Rated operational voltage U_e V AC	Max. fuse size A	Fused circuits Qty.	PE and N terminals Quantity × cross-section mm²	**Type** Article no.	**Price** See Price List	Std. pack
Individual fuse enclosures								
• Metric cable entry knockouts in all sides • Degree of protection IP65 • With 3-pole busbar mounting fuse bases on busbars • Transparent cover with quick-release fasteners • PE/N bars, protective cover with marking strip • Fixing straps for wall mounting • Busbar mounting fuse bases exchangeable from the front • Sealable cover fasteners, enclosure depth 150 mm								
	25	500	25, DII/E27	9 × 1-pole 3 × 3-pole	On each: 2 × (6 – 35) On each: 9 × (1 – 6)	**RS27/I23E** 013156		1 off
	63	400	35, D02/E18	6 × 1-pole 4 × 3-pole	On each: 2 × (6 – 35) On each: 6 × (4 – 25)	**RS18/I23E** 020275		
	63	690	35, DIII/E33	2 × 3-pole	On each: 2 × (6 – 35) On each: 2 × (4 – 25)	**RS33/I23E** 022648		
	25	500	25, DII/E27	18 × 1-pole 6 × 3-pole	On each: 2 × (6 – 35) On each: 18 × (1 – 6)	**RS27/I43E** 029767		
	63	400	35, D02/E18	12 × 1-pole 8 × 3-pole	On each: 2 × (6 – 35) On each: 12 × (4 – 25)	**RS18/I43E** 032140		
Accessories								
Set of connecting links For connection of the busbars for RS.../I23, RS.../I43, RS.../I44								
One set comprises 3 link elements	250					**VBS-RS** 002307		5 off
Notes	– – – PE/N bars							

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Dimensions mm	Rated operational current I_e A	Rated operational voltage U_e V AC	Max. fuse size A	Fused circuits Qty.	PE and N terminals Quantity × cross-section mm²	**Type** Article no.	**Price** See Price List	Std. pack
Individual fuse enclosures								
	63	690	35, DIII/E33	4 × 3-pole	On each: 2 × (6 – 35) On each: 4 × (4 – 25)	**RS33/I43E** 039259		1 off
	25	500	25, DII/E27	18 × 1-pole 6 × 3-pole	On each: 2 × (6 – 35) On each: 18 × (1 – 6)	**RS27/I44E** 001884		
	63	400	63, D02/E18	12 × 1-pole 8 × 3-pole	On each: 2 × (6 – 35) On each: 12 × (4 – 25)	**RS18/I44E** 001886		
	63	690	63, DIII/E33	4 × 3-pole	On each: 2 × (6 – 35) On each: 12 × (4 – 25)	**RS33/I44E** 001888		

Notes

Accessories for fuse enclosures, → 14/55

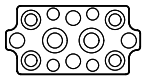
– – – PE/N bars

A



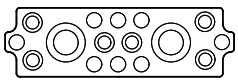
1 × M32/20
6 × M20
2 × M16

B



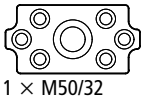
2 × M32/20
4 × M25/16
4 × M20
4 × M16

C



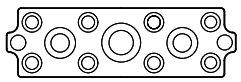
2 × M50/32
6 × M25/16
8 × M20

D



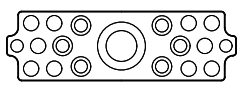
1 × M50/32
6 × M25/16

E



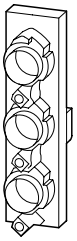
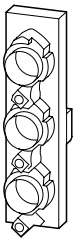
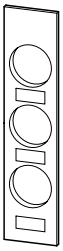
1 × M50/32 8 × M25/16
2 × M40/25 2 × M20

F

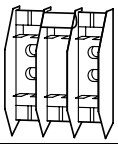
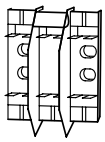
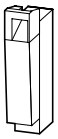
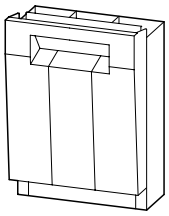
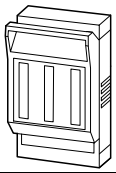
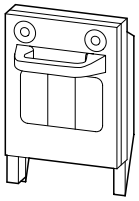


1 × M63/40 10 × M20
6 × M25/16 2 × M16

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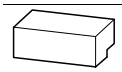
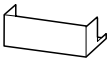
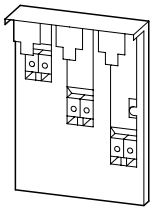
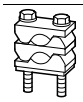
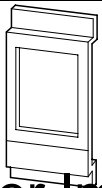
	Rated operational current I_e A	Rated operational voltage U_e V	Max. fuse A	For use with	**Type** Article no.	**Price** See Price List	Std. pack	
Busbar mounting fuse bases, 3-pole								
For mounting on busbars 20 × 5, 20 × 10, 20 × 15 mm With 50 mm between busbar centres								
Gauge ring system								
	–	25	500	E27, DII	CU20X5 CU20X10 CU20X15	**RS273-50** 093500		5 off	Gauge rings/gauge screws, fuse links and fuse caps are not included. Busbar mounting fuse bases, 3-pole for mounting on busbars 20 × 5, 20 × 10, 20 × 30 mm with 60 mm between busbar centres SASY60, HPL0214, Power Distribution Products and Systems
	–	63	380, 400	E18, D02	CU20X5 CU20X10 CU20X15	**RS183-50** 093501		10 off	
	–	63	660, 690	E33, DIII	CU20X5 CU20X10 CU20X15	**RS333-50** 093557		5 off	
Gauge ring system								
	–	25	500	E27, DII	CU20X5 CU20X10 CU20X15	**RS273-50FORMP** 095083		5 off	
	–	63	380, 690	E33, DIII	CU20X5 CU20X10 CU20X15	**RS333-50FORMP** 093559		5 off	
Covers								
For 3-pole busbar mounting fuse bases including designation label								
	–	–	–	–	RS273-50 RS273-50/FORMP	**ZSRS273-50** 093682		10 off	–
	–	–	–	–	RS183-50	**ZSRS183-50** 093693		20 off	–
	–	–	–	–	RS333-50 RS333-50/FORMP	**ZSRS333-50** 094970		10 off	–
Designation labels								
For covering the 3-pole busbar mounting fuse bases								
	Aluminium-coated plastic labels, engraved to order (...), Max. inscription: letter height 3.5 mm, 1 line, 12 characters				ZRS273-50 ZRS183-50 ZRS333-50	**BSAK25X10(*)** 939284		10 off	–
	Aluminium-coated plastic labels, blank				ZRS273-50 ZRS183-50 ZRS333-50	**BSAK25X10** 024201		10 off	–

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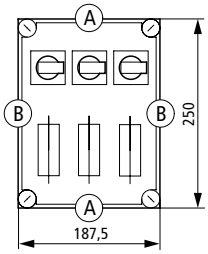
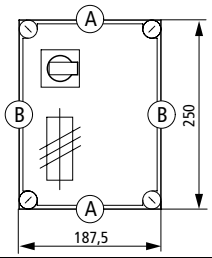
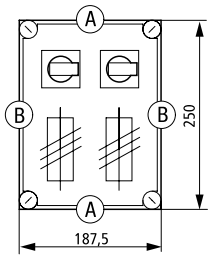
		Rated operational current I_e A	Max. fuse 500 V A	Max. fuse 690 V A	Size	Type Article no.	Price See Price List	Std. pack
Low-voltage h.b.c. fuse bases								
3-pole								
	–	100	100	100	NH00	**GS00** 024368		1 off
	–	160	160	100	NH00	**GS00-160** 026741		
	–	250	250	200	NH1	**GS1** 036233		
	–	400	400	315	NH2	**GS2** 045725		
	–	630	630	500	NH3	**GS3** 050471		
Low-voltage h.b.c. fuse switch-disconnectors								
1-pole, for fitting to mounting plate, MR25 Can be fitted to GSTA00(-160) for 4-pole low-voltage h.b.c. fuse switch-disconnector Two devices can be combined to make a 2-pole low-voltage h.b.c. fuse switch-disconnector Without hand guard								
	–	100	100	100	NH00	**GSTA00-1P** 224999		1 off
	–	160	160	100	NH00	**GSTA00-160-1P** 225000		1 off
3-pole, for fitting to mounting plate, MR25, without hand guard								
	–	100	100	100	NH00	**GSTA00** 093185		1 off
	–	160	160	100	NH00	**GSTA00-160** 095558		
	In conjunction with adapter plates: A-GSTA...	250	250	200	NH1	**GSTA1** 017250		
	In conjunction with adapter plates: A-GSTA...	400	400	315	NH2	**GSTA2** 021996		
	–	630	630	500	NH3	**GSTA3** 026742		
3-pole for mounting on busbars With 40/50/60 mm between busbar centres Busbar size: 12 – 30 × 5 – 15 Without hand guard								
	Connection top or bottom, without hand guard, for flat conductors	100	100	100	NH00	**GST00-40-60-AOU** 224549		1 off
	Connection top or bottom, without hand guard, for flat conductors	160	160	100	NH00	**GST00-160-40-60-AOU** 224550		1 off
3-pole, rear mounting, degree of protection: max. IP44								
	–	160	160	100	NH00	**GSTZ00-160** 067083		1 off
	–	250	250	200	NH1	**GSTZ1** 074202		
	–	400	400	315	NH2	**GSTZ2** 078948		
	–	630	630	500	NH3	**GSTZ3** 083694		

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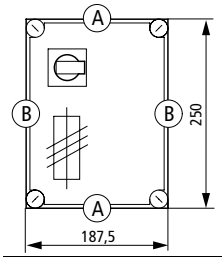
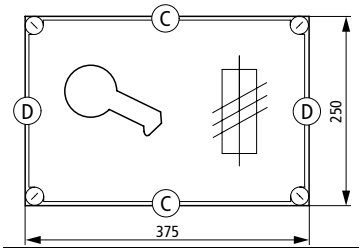
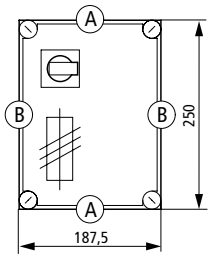
		For use with	Busbars mm	Type Article no.	Price See Price List	Std. pack
Set of connecting links						
For 2/4-pole assemblies						
	–	–	–	**V-GSTA00-1P** 228173		1 off
Hand guards						
For GST00(-160)-40-60-AOU						
	Top	–	–	**GOV-GST00-40-60** 224551		1 off
	Bottom	–	–	**GUV-GST00-40-60** 224552		1 off
						
Adapter plates for fuse switch-disconnectors						
Outgoer to top or bottom (adapter plate can be turned through 180°) 50 mm between busbar centres						
	–	GSTA1	Cu 20 × 5 Cu 20 × 10	**A-GSTA1/50** 057491		1 off
	–	GSTA1	Cu 20 × 5	**A-GSTA1/50/16** 059864		
	–	GSTA2	Cu 20 × 5 Cu 20 × 10	**A-GSTA2/50** 064610		
	–	GSTA2	Cu 20 × 15	**A-GSTA2/50/16** 066983		
Clip set						
Can be retrofitted, adjustable For latching on to two top-hat rails to IEC/EN 60715 (35 mm) For distances of 100 to 125 mm between busbar centres						
	–	GSTA00, GSTA00-160	–	**C-GSTA00** 040922		5 off
Sets of clamp-type terminals						
One set comprises 3 clamp-type terminals.						
	Terminal capacity 1 × (70 – 150) mm² Cu/Al	GS1, GST...1	–	**PSK1** 038734		1 off
	Terminal capacity 1 × (70 – 150) mm² Cu/Al	GS2, GST...2	–	**PSK2** 043480		
	Terminal capacity 1 × (120 – 300) mm² Cu/Al	GS3, GST...3	–	**PSK3** 048226		
Sets of double clamp-type terminals						
One set comprises 3 double clamp-type terminals						
	Terminal capacity 2 × (70 – 95) mm² Cu/Al	GS1, GST...1	–	**PSK12** 041107		1 off
	Terminal capacity 2 × (120 – 150) mm² Cu/Al	GS2, GST...2	–	**PSK22** 045853		
	Terminal capacity 2 × (120 – 240) mm² Cu/Al	GS3, GST...3	–	**PSK32** 050599		
Hand guards for fuse switch-disconnectors						
Provide additional protection for the operator during actuation of the fuse switch-disconnector						
	–	GST(A)00...	–	**ZBS-GSTA00** 014411		10 off
	–	GSTA1	–	**ZBS-GSTA1** 082800		10 off
	–	GSTA2	–	**ZBS-GSTA2** 082801		5 off
	–	GSTA3	–	**ZBS-GSTA3** 082802		10 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

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Dimensions mm	Fused poles Qty.	Rated operational current I_e A	Fuse Size	Insulated enclosures Type	**Type** Article no.	**Price**	Std. pack
CI fuse enclosures with switches • Metric cable entry knockouts in all sides • Transparent cover • Terminal for connecting the 4th conductor (PEN) • Fixing straps for wall mounting • Sealable cover fasteners • Gauge ring/fuse link and fuse cap are not included as standard.							
	3 × 1	25	S27	CI23E-125	**TS31-25/I23E** 084346		1 off
	1 × 3	25	S27	CI23E-125	**TS13-25/I23E** 086719		
	2 × 3	25	S27	CI23E-125	**TS23-25/I23E** 089092		

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Dimensions mm	Fused poles Qty.	Rated operational current I_e A	Fuse Size	Insulated enclosure Type	**Type** Article no.	**Price**	Std. pack
CI fuse enclosures with switches							
	1 × 3	63	S33	CI23E-125	**TS13-63/I23E** 091465		1 off
	1 × 3	100	NH00	CI43E-125	**NGS100/I43E** 016742		
	1 × 3	63	S33	CI23E-125	**TS13-63/I23E/SVB** 093838		

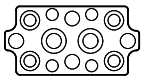
Notes

A



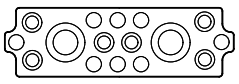
1 x M32/20
6 x M20
2 x M16

B



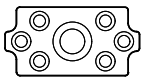
2 x M32/20
4 x M25/16
4 x M20
4 x M16

C



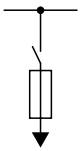
2 x M50/32
6 x M25/16
8 x M20

D

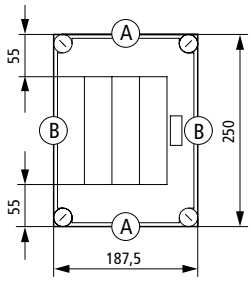
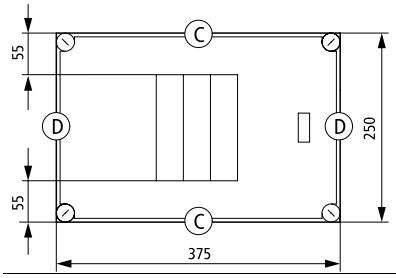
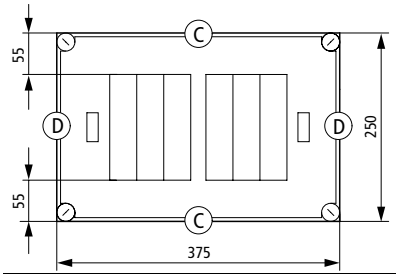
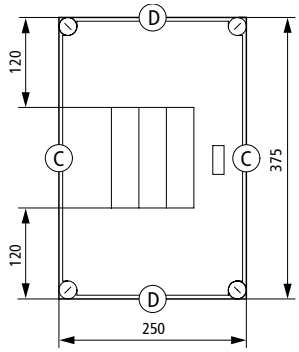


1 x M50/32
6 x M25/16

Prewired
switch fuse to supplying busbar

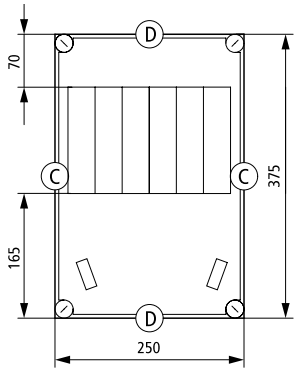
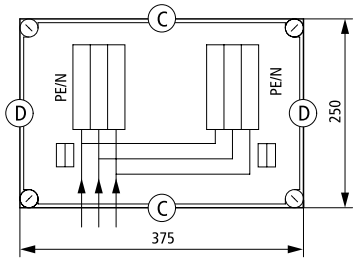


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Dimensions mm	Rated operational current I_e A	Rated operational voltage U_e V AC	Fuse Size	5th conductor terminal (N conductor) can be fitted by user	**Type** Article no.	**Price** See Price List	Std. pack
CI enclosures with low-voltage h.b.c. fuse bases • Metric cable entry knockouts in all sides • Degree of protection IP65 • Transparent cover • Enclosure depth 150 mm • Terminal for connecting the 4th conductor (PEN) • Fuse base fitted to steel mounting plate • Fixing straps for wall mounting • Sealable cover fasteners							
	100	690	NH00	K50/1	**GS00/I23E** 027395		1 off
	100	690	NH00	K50/1	**GS00/I43E** 032141		
	160 100	500 690	NH00	K 95/1N/BR	**GS00-160/I43E** 034514		
	2 × 100	690	NH00	K50/1	**2GS00/I43E** 044006		
	100	690	NH00	K50/1	**GS00/I43E-G** 039260		
	160 100	500 690	NH00	K95/1N/BR	**GS00-160/I43E-G** 036887		

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Dimensions mm	Rated operational current I_e A	Rated operational voltage U_e V AC	Fuse Size	5th conductor terminal (N conductor) can be fitted by user	**Type** Article no.	**Price** See Price List	Std. pack
CI enclosures with low-voltage h.b.c. fuse bases							
	2 × 100	690	NH00	K50/1	**2GS00/I43E-G** 041633		1 off
Two-way fuse box With parallel link between the incoming sides Incoming cable max. 35 mm² Max. fuse 63 A							
	2 × 100	690	NH00	–	**2GS00/I43E-V2K** 046379		1 off

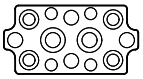
Notes

A



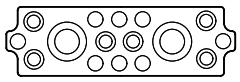
1 x M32/20
6 x M20
2 x M16

B



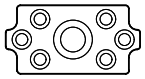
2 x M32/20
4 x M25/16
4 x M20
4 x M16

C



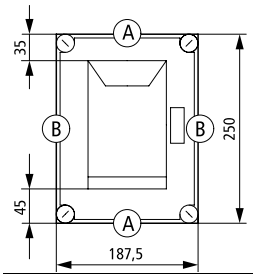
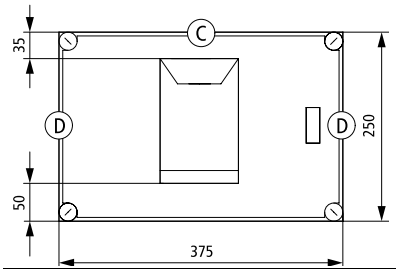
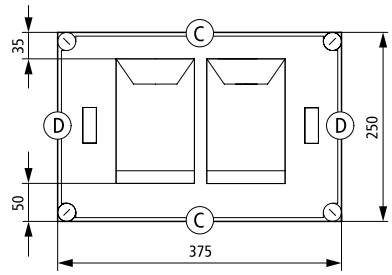
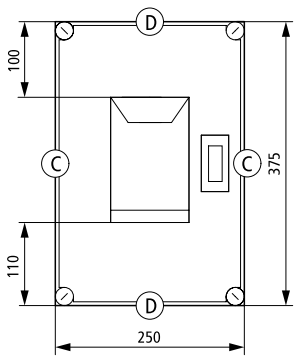
2 x M50/32
6 x M25/16
8 x M20

D



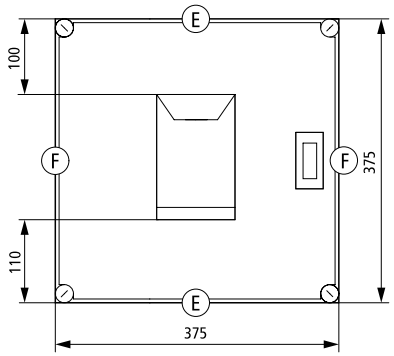
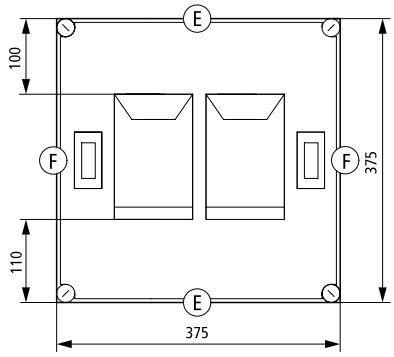
1 x M50/32
6 x M25/16

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Dimensions mm	Enclosure depth mm	Rated operational current I_e A	Rated operational voltage U_e V AC	Fuse Size	5th conductor terminal (N conductor) can be fitted by user	**Type** Article no.	**Price** See Price List	Std. pack
Enclosures with low-voltage h.b.c. fuse switch-disconnectors								
• Metric cable entry knockouts in all sides • Degree of protection IP65 • Transparent cover • Terminal for connecting the 4th conductor (PEN) • Fuse switch-disconnector fitted to sheet steel mounting plate • Fixing straps for wall mounting • Sealable cover fasteners								
	150	100	690	NH00	K50/1	**GSTA00/I23E** 048752		1 off
	150	100	690	NH00	K50/1	**GSTA00/I43E** 051125		
	150	160 100	500 690	NH00	K 95/1N/ BR	**GSTA00-160/I43E** 053498		
	150	2 × 100	690	NH00	K50/1	**2GSTA00/I43E** 070109		
	150	100	690	NH00	K50/1	**GSTA00/I43E-G** 058244		
	150	160 100	500 690	NH00	K 95/1N/ BR	**GSTA00-160/I43E-G** 055871		

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Dimensions mm	Enclosure depth mm	Rated operational current I_e A	Rated operational voltage U_e V AC	Fuse Size	5th conductor terminal (N conductor) can be fitted by user	**Type** Article no.	**Price** See Price List	Std. pack
Enclosures with low-voltage h.b.c. fuse switch-disconnectors								
	150	100	690	NH00	K50/1	**GSTA00/I44E** 060617		1 off
	150	160 100	500 690	NH00	K 95/1N/ BR	**GSTA00-160/I44E** 062990		
	150	2 × 100	690	NH00	K50/1	**2GSTA00/I44E** 067736		
	150	2 × 160 2 × 100	500 690	NH00	K 95/1 N/ BR	**2GSTA00-160/I44E** 065363		

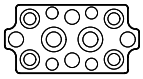
Notes

A



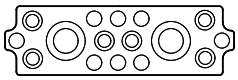
1 x M32/20
6 x M20
2 x M16

B



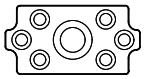
2 x M32/20
4 x M25/16
4 x M20
4 x M16

C



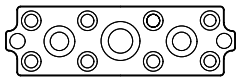
2 x M50/32
6 x M25/16
8 x M20

D



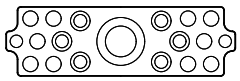
1 x M50/32
6 x M25/16

E



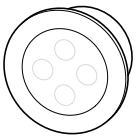
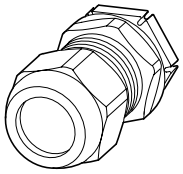
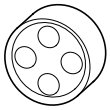
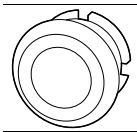
1 × M50/32 8 × M25/16
2 × M40/25 2 × M20

F



1 × M63/40 10 × M20
6 × M25/16 2 × M16

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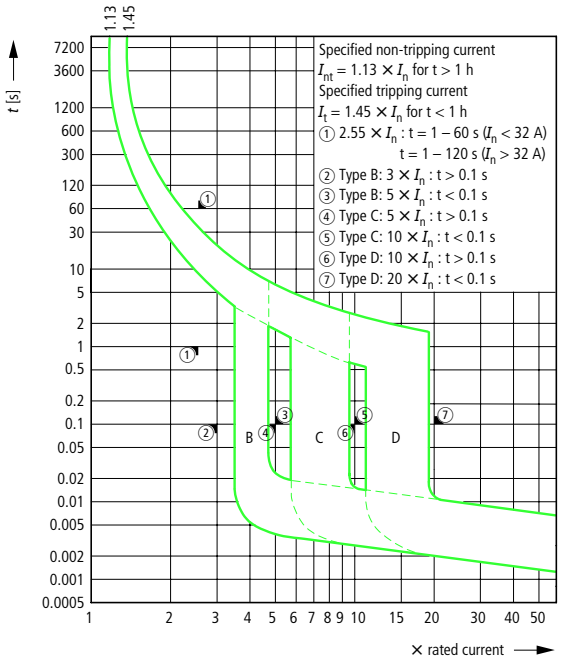
	Cable entry	Drilling dimensions mm	External diameter of cable mm	For use with NYM/NYY cables, 4-core mm²	Type Article no.	Price	Std. pack
Metric diaphragm grommets							
• IP66, with integral push-through diaphragm • Polyethylene and thermoplastic elastomer, halogen free							
	M16	16.5	1 – 9	H03VV-F3 × 0.75 mm², NYM 1 × 16/3 × 1.5 mm²	**KT-M16** 216983		100 off
	M20	20.5	1 – 13	H03VV-F3 × 0.75 mm², NYM 5 × 1.5/5 × 2.5 mm²	**KT-M20** 207602		
	M25	25.5	1 – 18	H03VV-F 3 × 0.75 mm², NYM 4 × 10 mm²	**KT-M25** 207603		
	M32	32.5	1 – 25	H03VV-F 3 × 0.75 mm², NYM 4 × 16/5 × 10 mm²	**KT-M32** 207604		
Metric cable glands, to EN 50262							
Cable glands, metric • With lock nut and built-in strain relief • IP68 up to 5 bar, polyamide, halogen-free							
	M12	12.5	3 – 7	H03VV-F 3 × 0.75 mm², NYM 1 × 2.5 mm²	**V-M12** 215078		20 off
	M16	16.5	4.5 – 10	H05VV-F 3 × 1.5 mm², NYM 1 × 16/3 × 1.5 mm²	**V-M16** 215077		
	M20	20.5	6 – 13	H05VV-F 4 × 2.5/3 × 4 mm², NYM 5 × 1.5/5 × 2.5 mm²	**V-M20** 206910		
	M25	25.5	9 – 17	H05VV-F 5 × 2.5/5 × 4 mm², NYM 5 × 2.5/5 × 6 mm²	**V-M25** 206911		
	M32	32.5	13 – 21	NYM 5 × 10 mm²	**V-M32** 206912		10 off
	M32	32.5	18 – 25	NYM 5 × 16 mm²	**V-M32G**[1] 226156		
	M40	40.5	16 – 28	NYM 5 × 16 mm²	**V-M40** 209668		
	M50	50.5	21 – 35	NYM 4 × 35/5 × 25 mm²	**V-M50** 206913		5 off
	M63	63.5	34 – 48	NYM 4 × 35 mm²	**V-M63** 214835		3 off
Multiple gaskets V-M... cable glands, metric							
	M25	–	4 × 3 – 6	H03VV-F 2 × 0.75/3 × 0.75 mm²	**MFD25** 215451		25 off
	M32	–	4 × 3.5 – 7	H03VV-F 4 × 0.75 mm²	**MFD32** 215452		25 off
Stoppers for unused openings in MFD... multiple gaskets							
	M25	–	6	–	**MFV25-6** 215453		50 off
	M32	–	7	–	**MFV32-7** 215454		50 off
Cable grommets							
For wall thickness 2 – 3 mm, PVC							
	–	58	14 – 54	–	**KT3** 031523		2 off
	–	75	14 – 68	–	**KT4** 036269		3 off
Pressure compensating grommets/cable glands							
Normal enclosure For use in the enclosure bottom or sides, PVC							
	M25	25.5	–	–	**KT-M25F** 224556		50 off
Enclosure IP65 For use in the enclosure bottom or sides, IP65, polyamide, halogen free							
	M20	20.5	–	–	**STB-M20F** 224557		20 off
	M25	25.5	–	–	**STB-M25F** 224558		20 off

Notes [1] Does not conform to EN 50262 standard

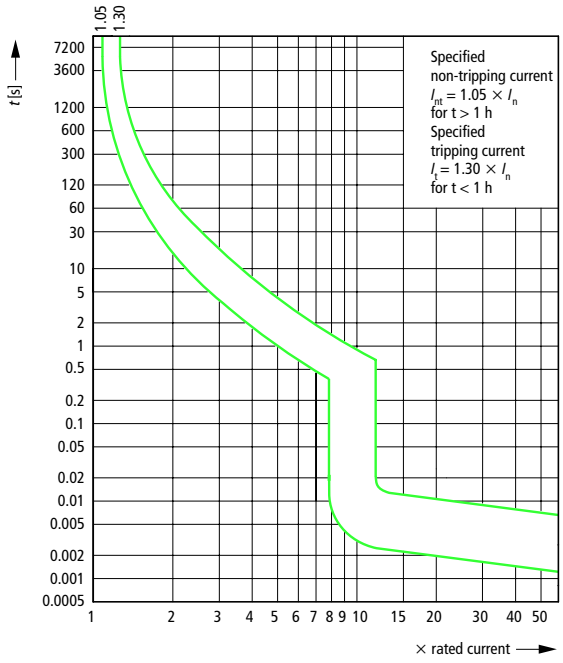
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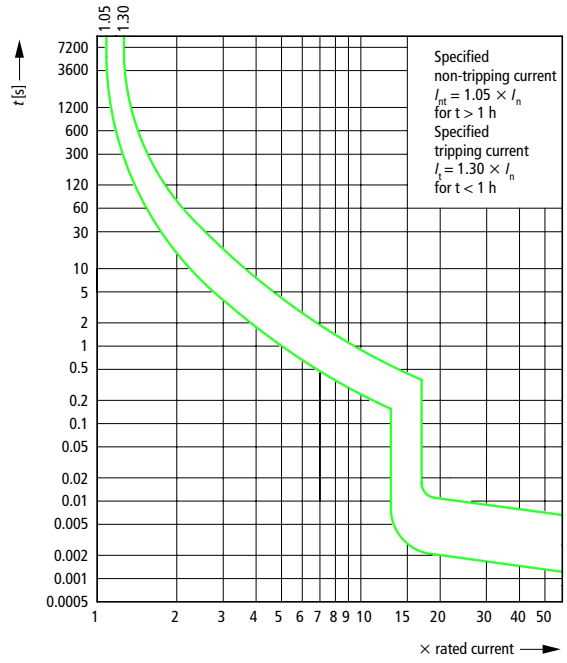
FAZ tripping characteristics at 30 °C: B, C, D to IEC/EN 60898



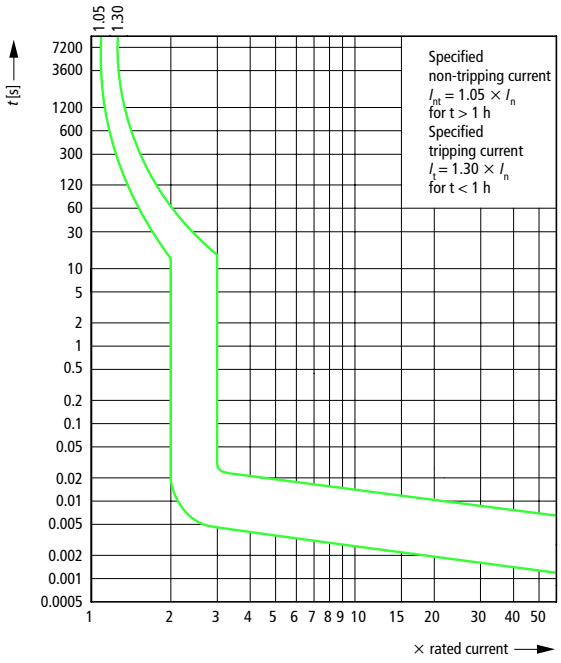
FAZ tripping characteristics at 30 °C: K to IEC/EN 60947



FAZ tripping characteristics at 30 °C: S to IEC/EN 60947

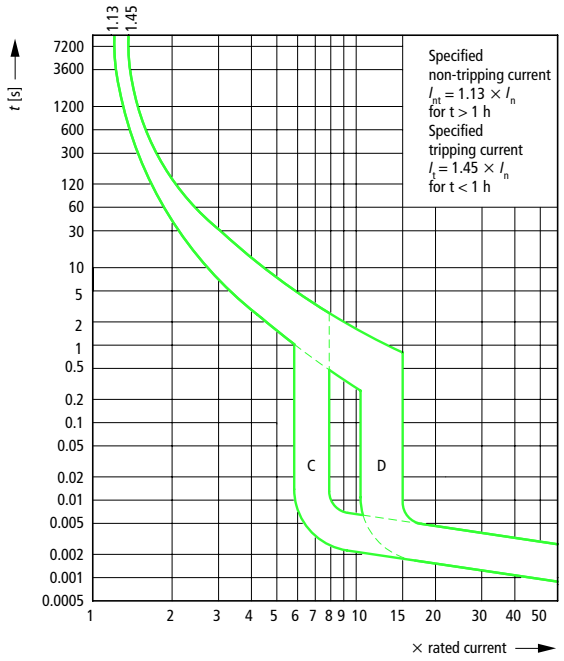


FAZ tripping characteristics at 30 °C: Z to IEC/EN 60947

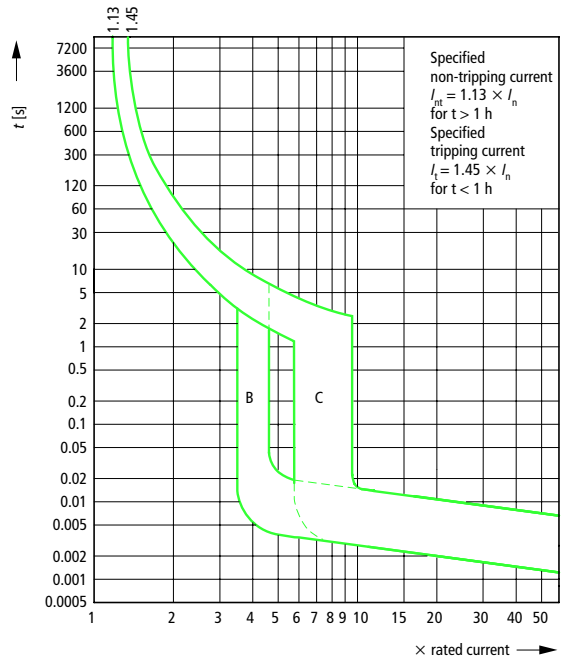


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AZ tripping characteristics at **30 °C: C, D to IEC/EN 60898**



PKNM tripping characteristics at **30 °C: B, C to IEC/EN 61009**

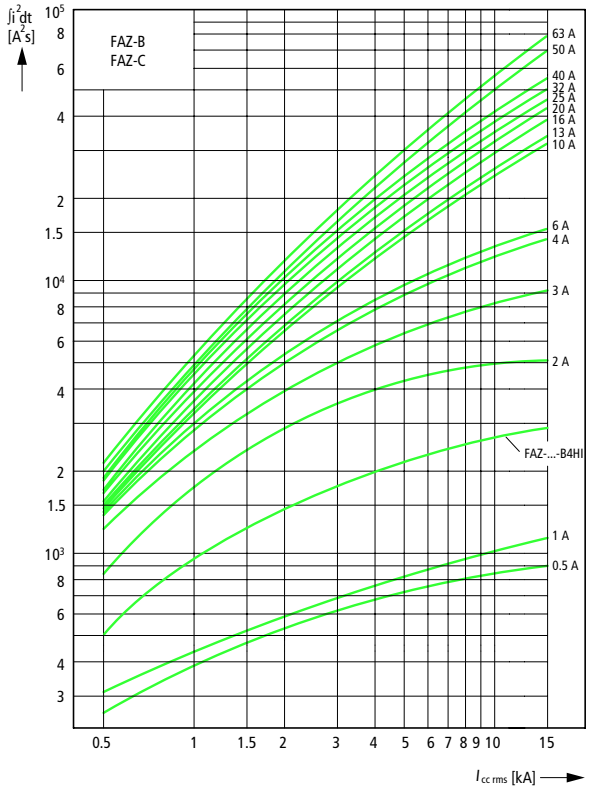


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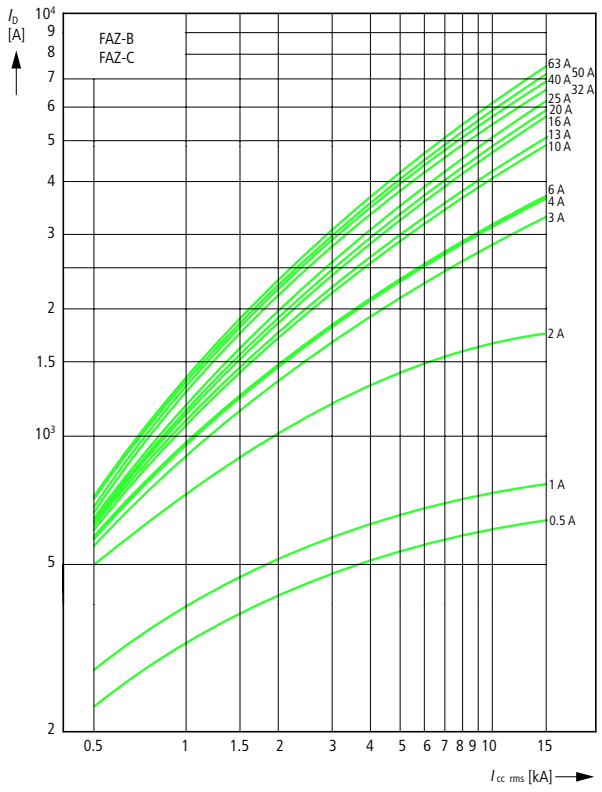
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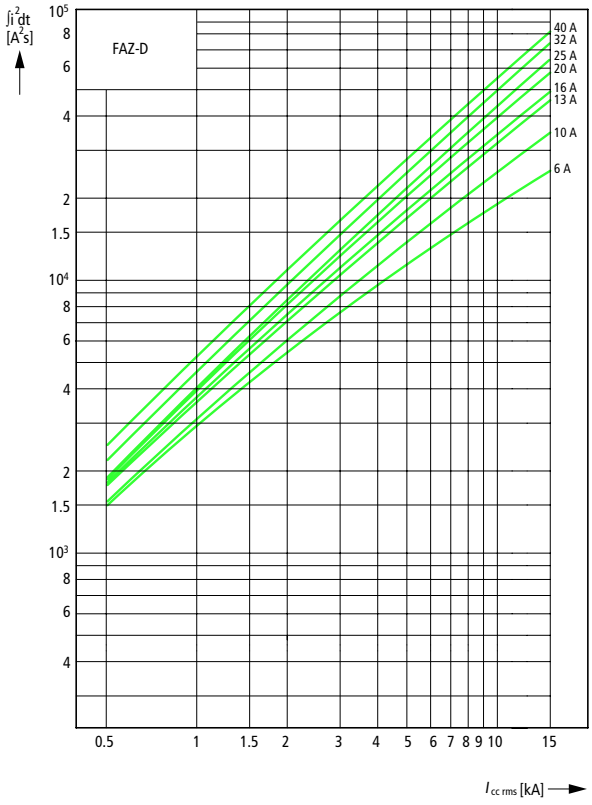
Let-through energy I^2t/let-through current $\hat{I}_D$
According to IEC/EN 60898

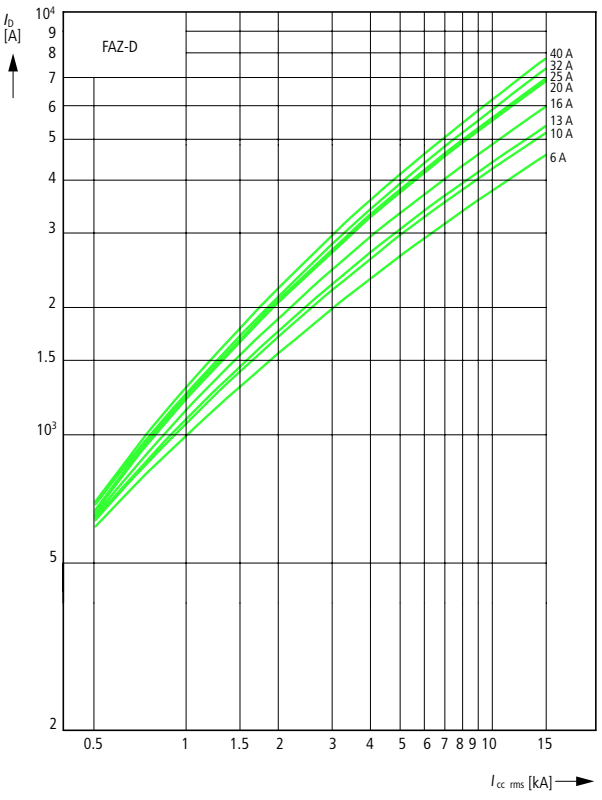
Let-through energy I^2t



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



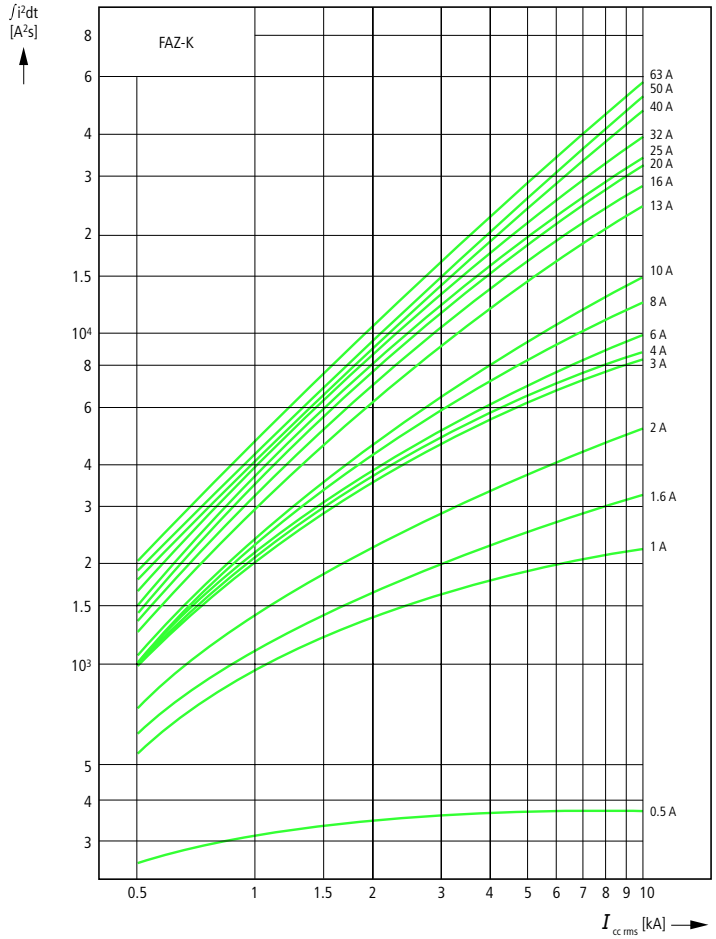




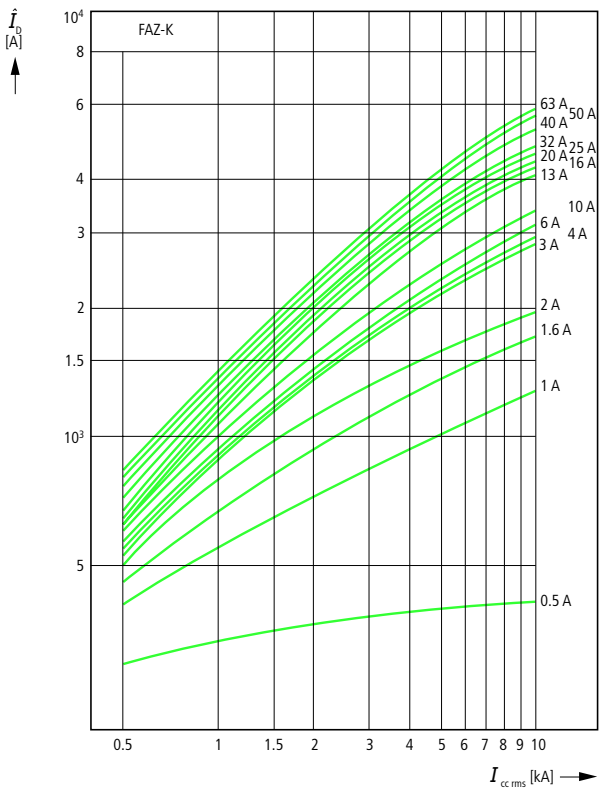
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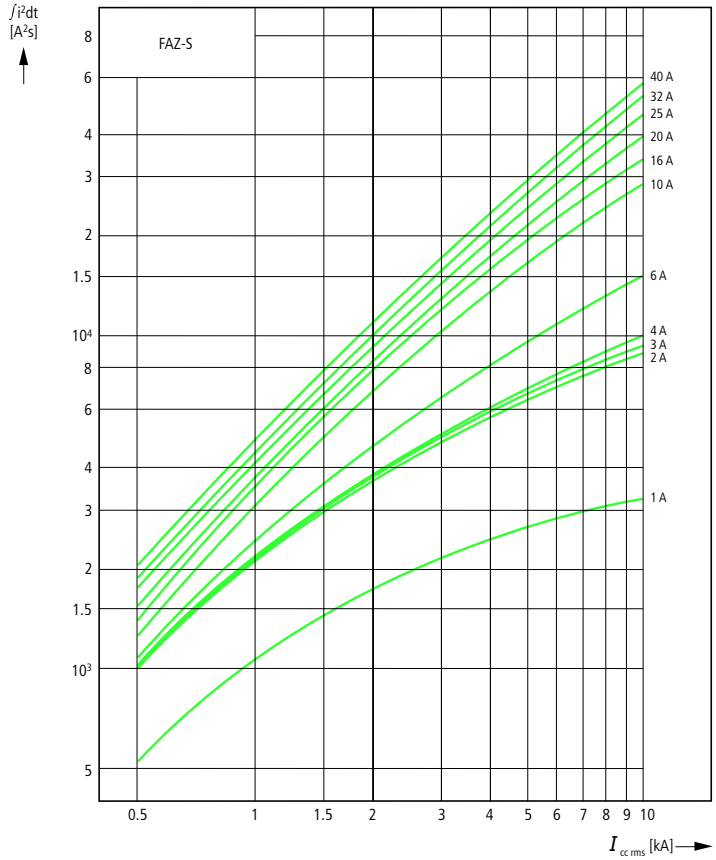
Let-through energy I^2t/let-through current $\hat{I}_D$
According to IEC/EN 60898

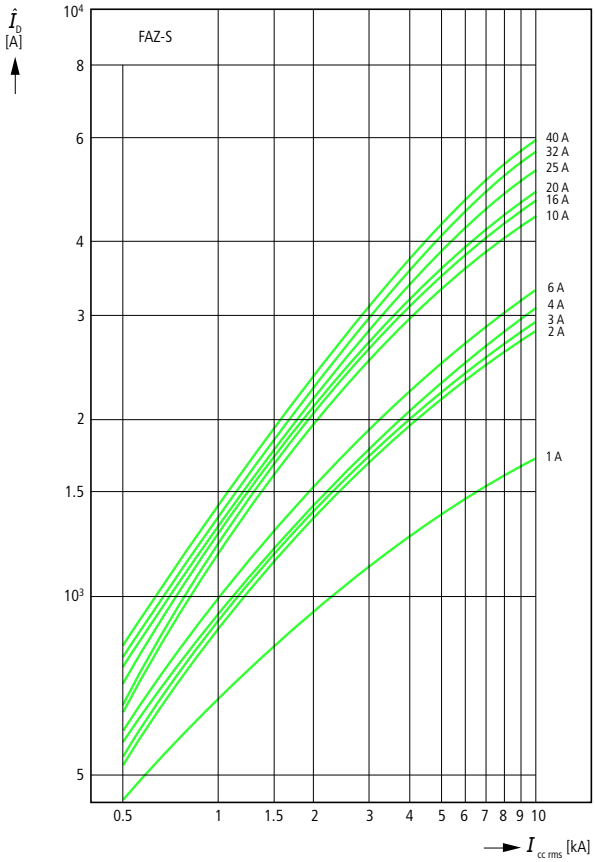
Let-through energy I^2t



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





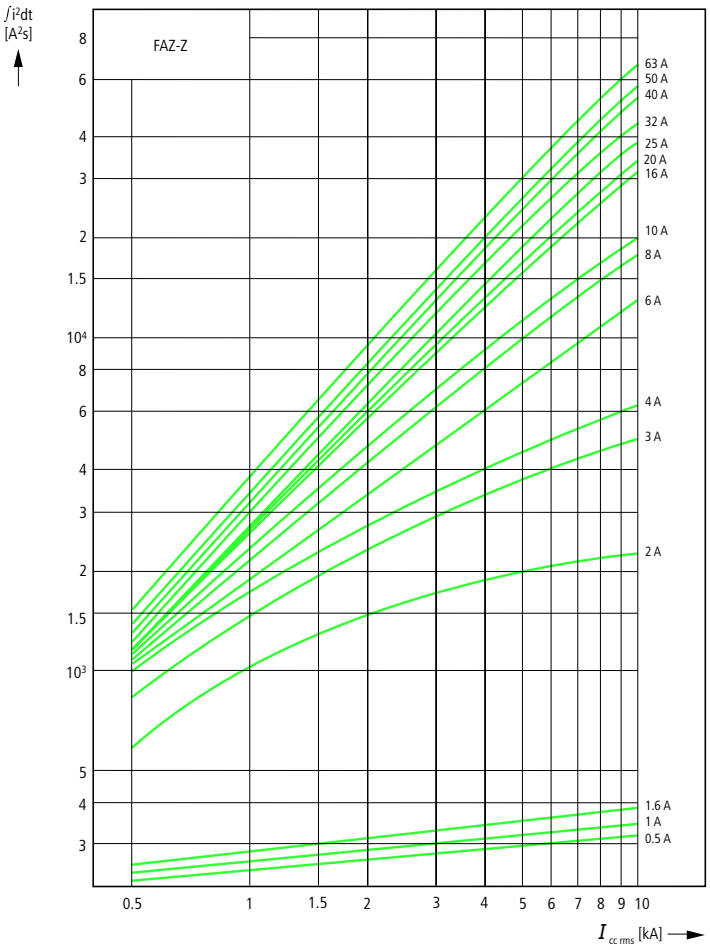


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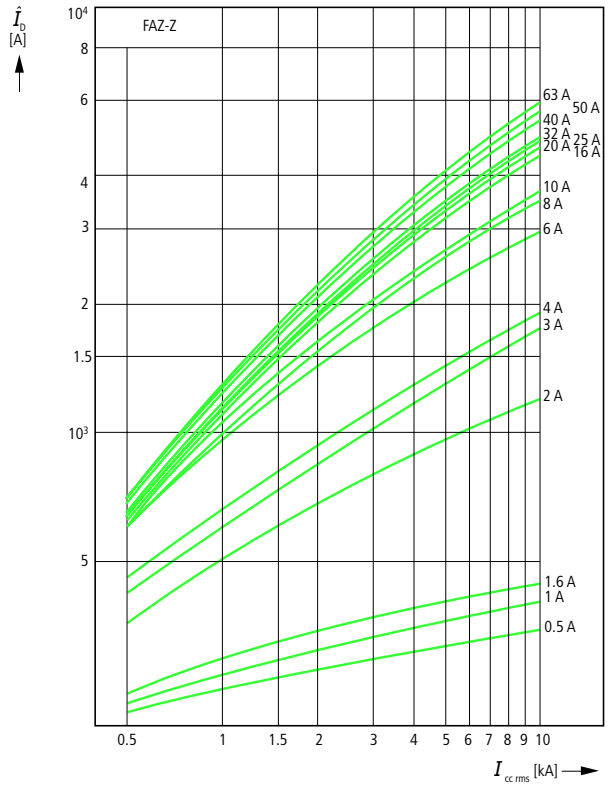
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Let-through energy I^2t/let-through current $\hat{I}_D$
According to IEC/EN 60898

Let-through energy I^2t

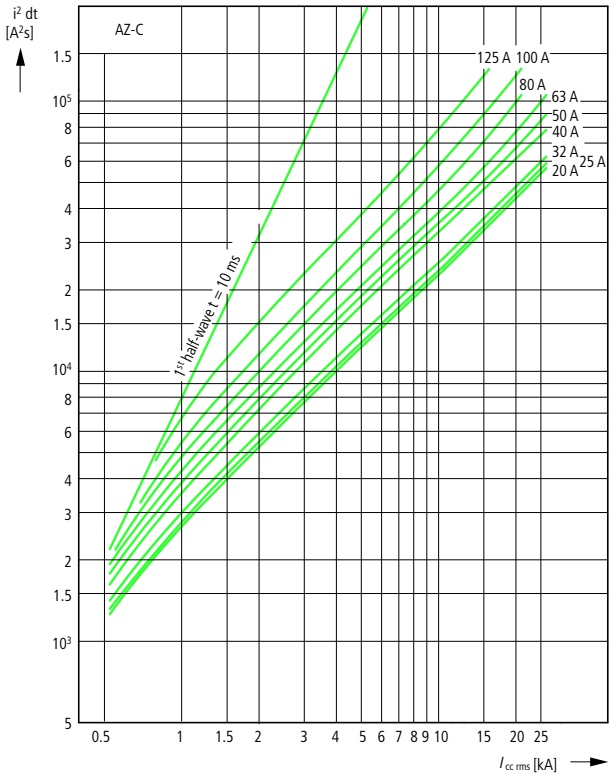


Let-through current $\hat{I}_D$

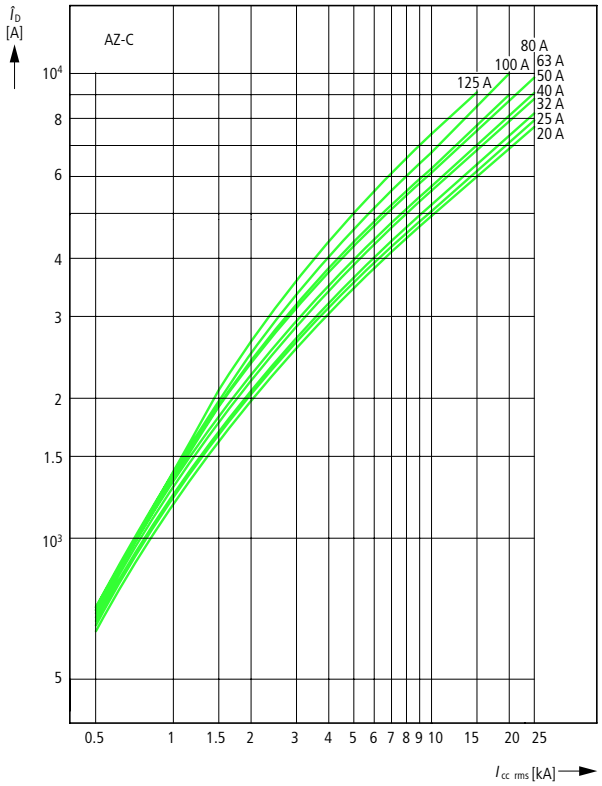


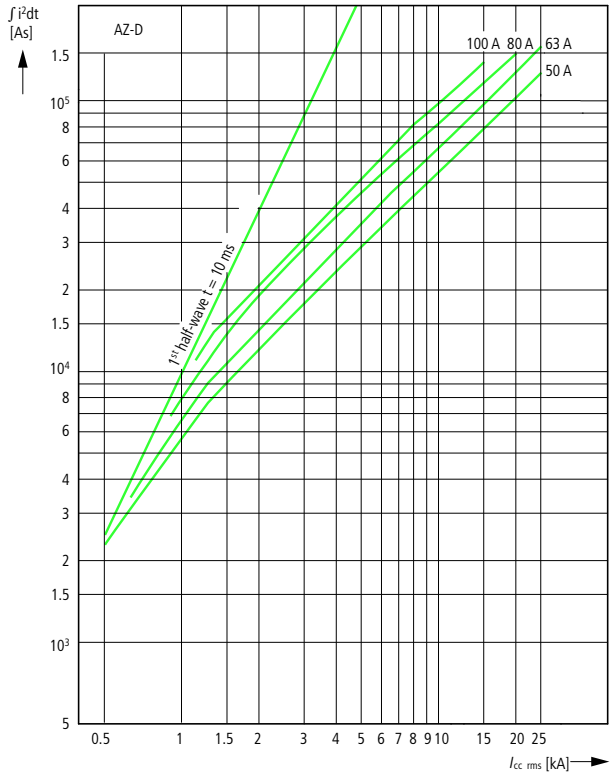
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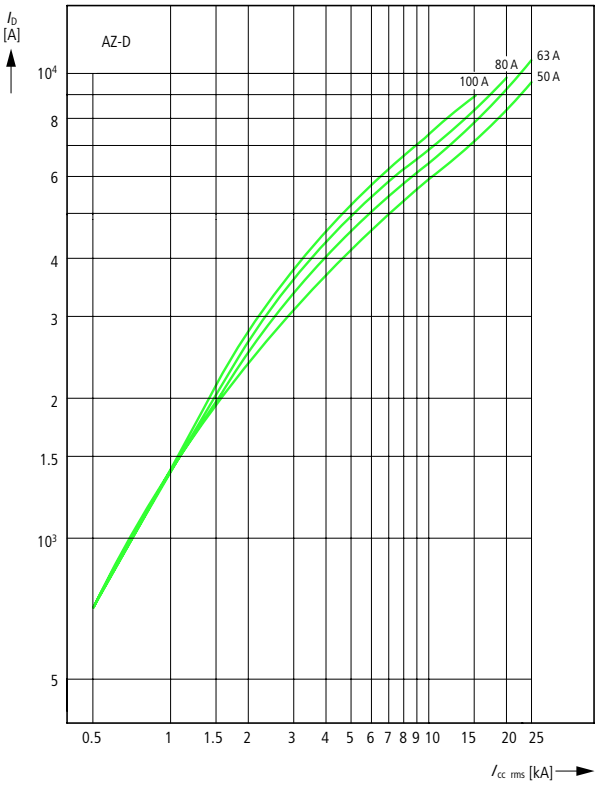
Let-through energy I^2t



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





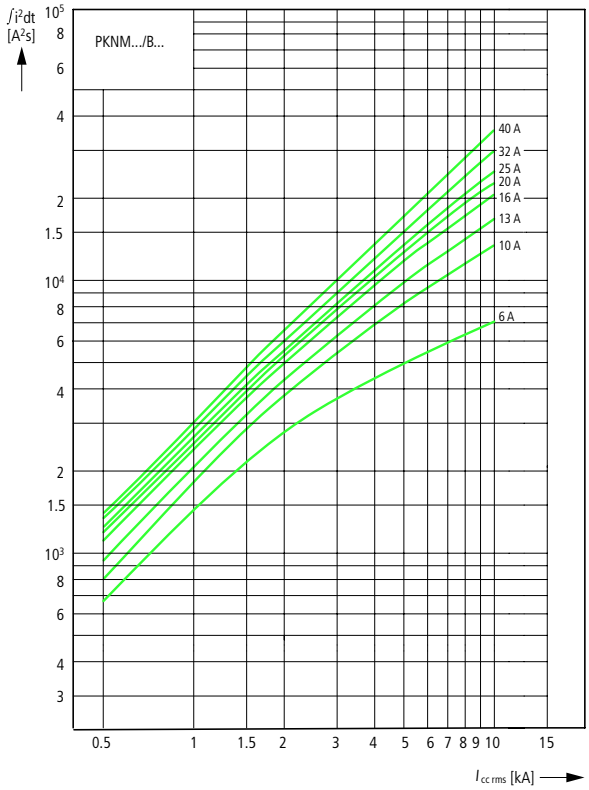


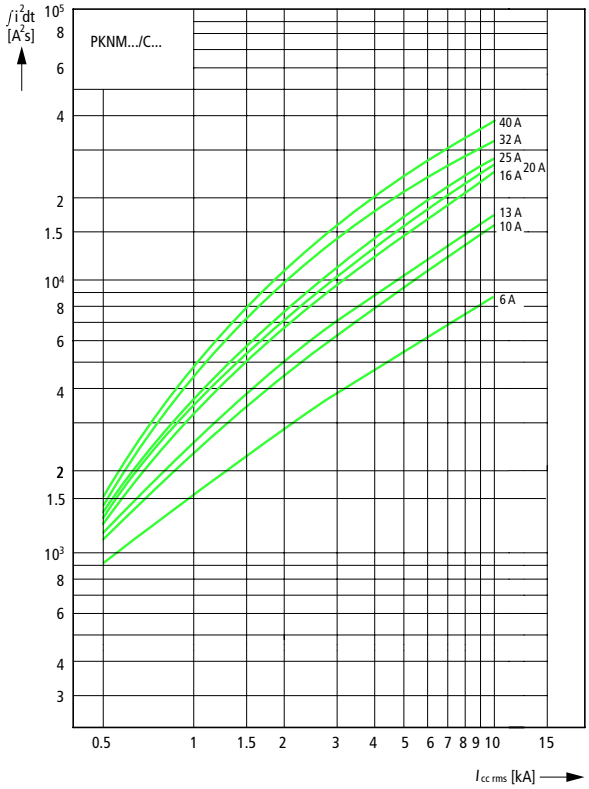
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Let-through energy I^2t/let-through current $\hat{I}_D$
According to IEC/EN 60898

Let-through energy I^2t





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		FAZ	FAZ-...-DC	FAZ-PN	AZ
Electrical					
Standards		IEC/EN 60947-2	IEC/EN 60947-2	IEC/EN 60898	IEC/EN 60947-2
Rated operational voltage	V AC	230/400	750	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, Z, S	C	B, C	Similar: D, C
Max. back-up fuse	A gL/gG	125	100	100	200
Selectivity Class		3	3	3	Compliant with Class 3
Lifespan	Operations	> 10000	> 10000	> 4000	> 10000
Direction of incoming supply		As required	Polarity dependent	As required	As required
Mechanical					
Standard front dimension	mm	45			
Device height	mm	80	80	80	90
Terminal protection		Finger- and back-of-hand proof to IEC 536			
Mounting width per pole	mm	17.5	17.5	17.5	27
Mounting		IEC/EN 60715 top-hat rail			
Degree of protection		IP20			IP40 (enclosed)
Terminals top and bottom		Twin-purpose terminals			Lift terminals
Terminal capacity					
	mm^2	1 × 25	1 × 25	1 × 16	2.5 – 50
	mm^2	2 × 10	2 × 10	–	–
Thickness of busbar material	mm	0.8 – 2	0.8 – 2	–	–
Mounting position		As required		–	–

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			PKNM	FIM	AZFIMP-80 AZFIMP-125	FI F 80 A	FI 100, 125 A and Type B
Electrical							
Standards			IEC/EN 61009	IEC/EN 61009	IEC/EN 60947-2	IEC/EN 61008	IEC/EN 61008
Tripping		A	250 (8/20µ) non-delayed surge resistant			Non-delayed, S	
Rated operational voltage	U_e	V AC	230	230/400	230/400	230/400	230/400
Operating voltage limits		V AC	196 – 253	196 – 440	196 – 440	184 – 440	184 – 440
Rated frequency		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 × $I_{\triangle n}$	0.5 × $I_{\triangle n}$	0.5 × $I_{\triangle n}$	0.5 × $I_{\triangle n}$	0.5 × $I_{\triangle n}$
Rated fault current switching capacity	$I_{\triangle m}$	A	–	–	–	I_n = 16 - 40 A: 500 I_n = 63 A: 630 I_n = 80 A: 800	I_n = 100 A: 1000 I_n = 125 A: 1250 for Type B: 60, 80 A: 800 40 A: 500
230 V		kA	6	–	–	–	–
400 V		kA	3	–	–	–	–
Sensitivity			AC 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 fittec FAZ	–	–	–
Rated breaking capacity limit	I_{cu}		–	As fitted AZ	As fitted AZ	–	–
Rated short-circuit switching capacity			–	–	= I_{cu}	–	–
Rated current		A	6 – 40	40, 63	80, 125	16 – 80	40 – 125
Rated impulse withstand voltage	U_{imp}	kV	6 (1.2/50µ)	–	4 (1.2/50µ)	6	6
Characteristic			B, C	–	–	–	–
Maximum fuse for short-circuit protection		A gL	100	–	–	I_n = 16 - 63 A: 63 I_n = 80 A: 80	I_n = 100, 125 A: 125 for Type B: 80
Selectivity Class			3	–	–	–	–
Lifespan							
Electrical		Operations	> 4000	–	> 1500	> 4000	> 2000
Mechanical			> 20000	–	> 10000	> 20000	> 5000
Mechanical							
Standard front dimension		mm	45	45	45	45	45
Device height		mm	80	90	90	80	85
Terminal protection			Protection against electric shock to IEC 536				
Mounting width		mm	35 (2 space units)	70 mm (2-pole) 125 mm (4-pole)	95 (5.5 space units)	35 mm (2 space units)	70 mm (4 space units)
Mounting			–	Permanent screw connection with FAZ	Screwed on to AZ (2- to 4-pole)	Top-hat rail IEC/EN 60715	Top-hat rail IEC/EN 60715
Degree of protection							
Device			IP20	–	–	–	–
Enclosed			IP40				
Terminals top and bottom			Twin purpose terminals	Lift terminals		Twin purpose terminals	Lift terminals
Terminal capacity							
Solid		mm²	1 × 25	1 × (1 – 25)	2.5 – 50	1.5 – 35	1.5 – 50
Flexible		mm²	–	1 × (0.75 – 16)	–	2 × 16	2 × (1.5 – 16)
Thickness of busbar material		mm	0.8 – 2	0.8 – 2	–	0.8 – 2	0.8 – 2
Admissible ambient temperature range		°C	–25 to +40				
Climatic proofing to			IEC/EN 61009	IEC/EN 61009	IEC/EN 60068-2	IEC/EN 61008	IEC/EN 61008

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			FAZ-XHI11 FAZ-XAM002	FAZ-XAA-C	FAZ-XUA
Electrical					
Contact function			XHI11: 1 M + 1 B XAM002: 2 C/O	–	–
Rated operational voltage	U_n	V AC	250	–	115 230 400
Voltage range		V AC	–	12 – 110 110 – 415	–
Closing threshold		× U_n	–	–	0.8
Tripping threshold		× U_n	–	–	0.5
Rated frequency	f	Hz	50/60	50/60	50/60
Rated current		A	4	–	–
Conventional free air thermal current	I_{th}	A	4	–	–
Rated operational current					
AC–-13	I_e	A	3 (250 V AC)	–	–
AC–15	I_e	A	2 (250 V AC)	–	–
DC-13	I_e	A	0.5 (110 V DC)	–	–
Rated insulation voltage	U_i	V AC	250	–	–
Minimum operating voltage per contact	U_{min}	V DC	5	–	–
Rated impulse withstand voltage (1.2/50µ)	U_{imp}	kV	2.5	–	–
Rated conditional short-circuit current With 6 A back-up fuse	I_{sc}	kA	1	–	–
Max. admissible back-up fuse		A gL	4	–	–
Mechanical					
Standard front dimension		mm	45	45	45
Device height		mm	80	80	80
Mounting width		mm	8.8 (0.5 space units)	17.5 (1 space unit)	17.5 (1 space unit)
Mounting			On MCB	IEC/EN 60715 top-hat rail	IEC/EN 60715 top-hat rail
Degree of protection					
Enclosed			IP40	IP40	IP40
Terminal protection			Protection against electric shock to IEC 536		
Terminals			Lift terminals	Twin-purpose terminals	Twin-purpose terminals
Terminal capacity					
Solid		mm^2	0.5 – 2.5	1 – 2.5	2 × (1 – 2.5)
Flexible		mm^2	0.5 – 2.5	1 – 2.5	2 × (1 – 2.5)
Tightening torque of terminal screws		Nm	0.8 – 1.0	2.4	0.8



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			AZ-XHI11	AZ-XAA	FIP-XHI11 ≦ 80 A	FIPA XAM011 From 100 A FI and Type B
Electrical						
Contact function			1 M + 1 B	–	1 M + 1 B	1 C/O + 1 B
Voltage range		V AC	–	12 – 110 110 – 415	–	–
		V DC	–	12 – 60 110 – 220	–	–
Min. operating voltage	U_e	V/mA	24/50	–	24/50	–
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	I_e	A				
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
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 space units)	17.5 (1 space unit)	8.8 (0.5 space units)	8.8 (0.5 space units)
Mounting			IEC/EN 60715 top-hat rail			
Degree of protection						
Device			IP20	IP20	IP20	IP20
Enclosed			IP40	IP40	IP40	IP40
Terminal capacity						
Solid		mm^2	1 × (1 – 25) 2 × (1 – 4)	1 × (1 – 25) 2 × (1 – 4)	2 × (0.5 – 2.5) 1 × (0.5 – 2.5)	2.5
Flexible		mm^2	1 × (1 – 25) 2 × (1 – 4)	1 × (1 – 25) 2 × (1 – 4)	2 × (0.5 – 2.5) 1 × (0.5 – 2.5)	2.5
Tightening torque of terminal screws		Nm	0.8	3	0.8	0.8

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			FAZ/FIP-XFSM	FAZ/FIP-XAWM	FAZ/FIP-XDWM
Electrical					
Possible operating voltages		V AC	24 – 240	220 – 240	–
		V DC	24 – 80	–	48
Rated frequency	*f*	Hz	50/60	50/60	–
Test module (0.5 space unit) for remote testing of residual-current devices			Z-FW	–	–
Control voltage for remote testing		V AC/DC	24 – 230	–	–
Relay output for tripping test With Z-FW		V AC	400	–	–
Relay output for alarm function, potential-free		A	5 (250 V AC)	5 (250 V AC)	5 (250 V AC)
Functions			Local, remote and automatic control, residual current-testing	Automatic control	
Function selector			NO automatic Automatic 1 × Automatic 5 × OFF/RESET	– Automatic 5 × OFF/RESET	
Control functions via telephone using telecontrol module			Z-TC	–	–
Mechanical					
Standard front dimension		mm	45	45	45
Device height		mm	80	80	80
Mounting width		mm	70	70	70
Mounting			IEC/EN 60715 top-hat rail		
Degree of protection					
Enclosed			IP40	IP40	IP40
Terminal protection			Protection against electric shock to IEC 536		
Terminals			Lift terminals		
Max. terminal capacity					
Solid		mm^2	2 × 1.5 1 × 2.5	2 × 1.5 1 × 2.5	2 × 1.5 1 × 2.5
Flexible		mm^2	2 × 1.5 1 × 2.5	2 × 1.5 1 × 2.5	2 × 1.5 1 × 2.5

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			IS-32	IS-40	IS-63	IS-80	IS-100	IS-125
Electrical								
Rated operational voltage	U_n	V AC	240/415					
Rated frequency	f	Hz	50/60					
Rated insulation voltage	U_i	V	690					
Rated operational current								
AC-22, 240/415 V		A	32	40	63	80	100	100
AC-23, 240/415 V		A	32	40	50	50	50	50
Number of poles			1- to 4-pole					
Max. admissible back-up fuse		A gG	125					
Mechanical								
Standard front dimension		mm	45					
Device height		mm	80					
Mounting width		mm	17.5/per pole					
Mounting			IEC/EN 60715 top-hat rail					
Degree of protection								
Enclosed			IP40					
Terminal protection			Protection against electric shock to IEC 536					
Max. terminal capacity								
Solid	mm^2		50					
Stranded	mm^2		50					

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			Z-S(L) (Control switches, illuminated switches)	**Z-T, Z-LT** (Pushbuttons, illuminated pushbuttons)	**Z-PU(L)** (Illuminated pushbuttons)	**Z-SW(L)** (Control switches, illuminated switches)	**Z-EL, Z-DL** (Signal lamps)	**Z-L** (Indicator lights)
Electrical								
Standards			IEC/EN 60669					
Rated operational voltage	U_n	V AC	230/400	230/400	250	250	250	230
Rated frequency	f	Hz	50	50	50	50	50	50
Rated operational current		A	Z-S: 16 Z-S32: 32	16 (230 V)	16	16	–	–
Switching capacity			$1.25 \times I_n$ $1.1 \times U_n$				–	–
LED/Light			Light		LED			Light
Rated voltage	U_n	V AC/DC	230	230	230	230	230	230
	U_n	V AC/DC	24	24	24	24	24	24
Operating voltage tolerance		%	–	–	± 10	± 10	± 10	± 10
Luminosity		mcd	–	–	15	15	15	15
Power loss		W	max. 2	max. 2	2	2	2	max. 2
Max. back-up fuse		A gG	–	–	20	20	–	–
Mechanical								
Standard front dimension		mm	45	45	45	45	45	45
Device height		mm	80	80	90	90	90	80
Mounting width		mm	17.5 (1 space unit)	17.5 (1 space unit)	17.5 (1 space unit)	17.5 (1 space unit)	17.5 (1 space unit)	17.5 (1 space unit)
Mounting			IEC/EN 60715 top-hat rail					
Degree of protection								
Enclosed			IP40					
Terminal protection			Protection against electric shock to IEC 536					
Terminals			Lift terminals		Lift terminals with terminal protector			Lift terminals
Terminal capacity								
Solid		mm^2	1 – 10	1 – 10	1 – 10	1 – 10	1 – 10	1 – 10
Stranded		mm^2	1 – 10	1 – 10	1 – 10	1 – 10	1 – 10	1 – 10
Climatic proofing			According to IEC/EN 60068					

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			Z-S...	Z-SC...
Electrical				
Standards			IEC/EN 60669	
Rated operational current	I_e	A AC	16 (250 V)	16 (250 V)
Number of poles			1 – 4	1 – 3
Main contacts				
Make contacts			1 M (1 space unit) 2 M (1 space unit) 3 M (2 space units) 4 M (2 space units)	1 M (1 space unit) 3 M (2 space units)
Make/break (changeover contact)			1 M + 1 B (2 space units) 2 M + 2 B (2 space units) 1 M + 1 C/O (2 space units)	1 M + 1 C/O (2 space units) 2 M + 1 B (2 space units)
Changeover contact			1 C/O (1 space unit)	–
Control circuit				
Rated control voltage	U_s	V AC	8, 12, 24, 230	24, 230
Rated frequency	f	Hz	50	
Effective range		$\times U_s$	0.9 – 1.1	
Max. parallel pushbuttons		Qty.	Not restricted	
Max. parallel illuminated pushbuttons 230 V, normally 0.6 mA				
Without compensation		Qty.	8 (1 space unit), 15 (2 space units)	–
With compensation (1 × Z-SC/KO)		Qty.	23 (1 space unit)	–
With compensation (2 × Z-SC/KO)		Qty.	46 (1 space unit), 43 (2 space units)	–
Minimum command time		ms	> 200	
Operating noise			Hum-free	
Rated impulse withstand voltage (1.2/50 µs)	U_{imp}	kV	2	
Duty factor			1 h, 100 % with spacer	100 %
Load circuit				
Rated operational voltage	U_n	V AC	250 (1-pole) 240/415 (2–4-pole)	
Minimum operating voltage	$U_{min.}$	V AC/DC	24	
Rated insulation voltage	U_i	V AC	500	
Rated impulse withstand voltage (1.2/50 µs)	U_{imp}	kV	4	
Conventional thermal current	I_{th}	A AC	16	
Rated operational current	I_e	A AC	16	
Rated uninterrupted current	I_u	A AC	16	
Rated uninterrupted current				
24 V	I_e	A DC	16	
48 V	I_e	A DC	12.5	
230 V	I_e	A DC	1	
Rated conditional short-circuit current With back-up fuse: 20 A gL/gG	I_{sc}	kA	10	
Bounce duration		ms	10 (normally 5)	
Lifespan				
Electrical		Operations	$\geqq 40 \times 10^3$	
Mechanical		Operations	$\geqq 1 \times 10^6$	
Mechanical				
Standard front dimension		mm	45	
Device height		mm	90	
Mounting width		mm	17.5 (1 space unit), 36 (2 space units)	
Mounting			IEC/EN 60715 top-hat rail	
Degree of protection				
Enclosed			IP40	
Position in use			As required	
Terminals			Lift terminals, captive with terminal protector	
Terminal capacity				
Solid		mm^2	0.5 – 10	
Stranded		mm^2	0.5 – 10	
Flexible with ferrule		mm^2	0.5 – 6	
Contact material			Cadmium-free	

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			Z-R (1 space unit) (Except 3 M, 4 M)	Z-R (2 space units) (3 M, 4 M)
Electrical				
Standards			IEC/EN 60947	IEC/EN 60947
Number of poles			1 to 2	3 to 4
Load circuit				
Rated operational voltage	U_n	V AC	1-pole: 250 2-pole: 240/415	240/415
Minimum operating voltage	U_{min}	V AC/DC	24	24
Rated insulation voltage	U_i	V AC	500	500
Rated impulse withstand voltage (1.2/50 µs)	U_{imp}	kV	4	4
Conventional thermal current	I_{th}	A AC	20	20
Rated operational current	I_e	A AC	20	20
Rated uninterrupted current				
24 V	I_e	A DC	16	16
48 V	I_e	A DC	12.5	12.5
230 V	I_e	A DC	1	1
Rated conditional short-circuit current With back-up fuse: 20 A gL/gG	I_{sc}	kA	10	10
Bounce duration		ms	< 10 (normally 5)	< 10 (normally 5)
Control circuit				
Rated control voltage	U_s	V AC	8, 12, 24, 48, 110, 230, 240	8, 12, 245,48, 110, 230, 240
	U_s	V DC	8, 12, 24, 110	8, 12, 24, 110
Rated frequency	f	Hz	50	50
Effective range		$\times U_s$	0.85 – 1.1	0.85 – 1.1
Maximum coil consumption				
Pick-up		VA/W	10 – 13/6 – 8	10 – 13/6 – 8
Sealing		VA/W	3.4 – 4.0/2.0 – 2.4	3.4 – 4.0/2.0 – 2.4
Minimum command time		ms	> 50	> 50
Operating noise			Hum-free	Hum-free
Rated impulse withstand voltage (1.2/50 µs)	U_{imp}	kV	2	2
Duty factor		%	100	100
Utilization categories				
AC—1				
Rated operational voltage	U_n	V AC	250	240/415
Rated operational current	I_e	A AC	20	20
Motor rating		W cos φ VA	4000 0.8 5000	4000 0.8 5000
AC—3				
Rated operational voltage	U_n	V AC	250	240/415
Rated operational current	I_e	A AC	8	8
Motor rating		W cos φ VA	900 0.45 2000	900 0.45 2000
AC-5a				
Rated operational voltage	U_n	V AC	250	240/415
Rated operational current	I_e	A AC	10	10
Motor rating		W cos φ VA	1125 0.45 2500	1125 0.45 2500
AC-5b				
Rated operational voltage	U_n	V AC	230	230/415
Rated operational current	I_e	A AC	8.8	8.8
Motor rating		W	2024	2024
AC-7a				
Rated operational voltage	U_n	V AC	250	240/415
Rated operational current	I_e	A AC	20	20
Motor rating		W cos φ VA	4000 0.8 5000	4000 0.8 5000

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			Z-R (1 space unit) (Except 3 M, 4 M)	Z-R (2 space units) (3 M, 4 M)
AC-7b				
Rated operational voltage	U_n	V AC	–	240/415
Rated operational current	I_e	A AC	–	10
Motor rating		W cos φ VA	– – –	1125 0.8 2500
DC-1				
1-pole				
24 V DC		A	20	20
48 V DC		A	18	18
60V DC		A	17	17
110V DC		A	4	4
220V DC		A	0.4	0.4
2-pole in series				
24 V DC		A	20	20
48 V DC		A	20	20
60V DC		A	20	20
110V DC		A	10	10
DC-3, DC-5				
1-pole				
24 V DC		A	10	10
48 V DC		A	4	4
60V DC		A	3	3
110V DC		A	0.8	0.8
2-pole in series				
24 V DC		A	20	20
48 V DC		A	15	15
60V DC		A	12	12
110V DC		A	4	4
Filament bulb load AC-5b				
Number of lamps per contact at 230 V, 50 Hz				
60 W		Qty.	22	22
100 W		Qty.	13	13
200 W		Qty.	7	7
300 W		Qty.	4	4
500 W		Qty.	3	3
1000 W		Qty.	1	1
Mechanical				
Standard front dimension		mm	45	45
Device height		mm	90	90
Mounting width		mm	17.5 (1 space unit)	36 (2 space units)
Mounting			EN 60715 top-hat rail	
Degree of protection				
Enclosed			IP40	IP40
Position in use			As required, not suspended	
Terminal protection			Protection against electric shock to IEC 536	
Terminals			Lift terminals, captive with terminal protector	
Terminal capacity				
Solid		mm^2	0.5 – 10	0.5 – 10
Stranded		mm^2	0.5 – 10	0.5 – 10
Flexible with ferrule		mm^2	0.5 – 6	0.5 – 6
Ambient temperature		°C	–20 to +45	–20 to +45
Total contact opening		mm	> 5 (double-break)	> 5 (double-break)
Contact material			Cadmium-free	Cadmium-free

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			Z-SCH.../25	Z-SCH.../40	Z-SCH.../63	Z-SC
Electrical						
Standards			IEC/EN 60947-4-1			
Magnet coil consumption						
Pick-up		VA	14 – 18	33 – 45	33 – 45	–
Sealing		VA/W	4.4 – 8.4/1.6 – 3.2	7/2.6	7/2.6	–
Effective range of the magnet coils		× U_s	0.85 – 1.1	0.85 – 1.1	0.85 – 1.1	–
Max. back-up fuse		A gG	35	63	80	10
Main contacts						
Rated insulation voltage	U_i	V AC	440	440	440	–
Rated operational voltage	U_n	V AC	440	440	440	–
Nominal thermal current	I_{th}	A	25	40	63	–
Admissible operating frequency		Operations/hour	300	600	600	–
Mechanical lifespan		Operations	0.1 x 10^6	0.1 x 10^6	0.1 x 10^6	–
Heat dissipation per contact	P_v	W	2	3	7	–
Lighting installations						
AC–-1						
Rated current at 60 °C	I_e	A AC	25	40	63	–
Making capacity, r.m.s. value	I_{rms}	A	165	300	400	–
Making capacity, peak value	I_{peak}	A	233	424	565	–
AC-5a						
Motor rating At cos φ = 0.45		kW	1.3	3.4	5.5	–
At cos φ = 0.9		kW	0.4	1.6	2.1	–
DUO		kW	3.7	6.3	10	–
AC-5b						
Motor rating		kW	1.8	3.6	5.1	–
Filament bulb load AC-5b						
Number of lamps per contact at 230 V, 50 Hz						
60 W		Qty.	28	58	85	–
100 W		Qty.	17	35	51	–
200 W		Qty.	8	17	25	–
300 W		Qty.	5	11	16	–
500 W		Qty.	3	7	10	–
1000 W		Qty.	1	3	5	–
Utilization categories						
AC-1 (e.g. heaters)						
Rated operational current, open, at 60 °C	I_e	A AC	25	40	63	–
Contact service life		Operations	0.1 x 10^6	0.1 x 10^6	0.1 x 10^6	–
Motor rating						
220 – 240 V		kW	9,5	16	25	–
380 – 415 V		kW	17	27,5	43	–
AC-3 (switching of three-phase motors)						
Rated operational current	I_e	A AC	9	27	30	–
Contact service life		Operations	0.1 x 10^6	0.1 x 10^6	0.1 x 10^6	–
Motor rating						
220		kW	2.2	7.5	8	–
230 – 240 V		kW	2.5	8	8.5	–
380 – 415 V		kW	4	12.5	15	–
DC-1 (resistive load L/R ≦ 15 ms) make contacts						
1-pole (2-pole in series)						
24 V DC		A	25 (25)	40 (40)	63 (63)	–
48 V DC		A	22 (25)	25 (40)	26 (44)	–
60V DC		A	18 (25)	19 (33)	21 (36)	–
110V DC		A	5 (16)	7 (17)	8 (18)	–
220V DC		A	0.5 (4)	0.7 (5)	0.7 (6)	–
3-pole (4-pole in series)						
24 V DC		A	25 (25)	40 (40)	63 (63)	–
48 V DC		A	25 (25)	40 (40)	63 (63)	–
60V DC		A	25 (25)	40 (40)	61 (63)	–
110V DC		A	25 (25)	31 (40)	34 (63)	–
220V DC		A	10 (25)	10 (20)	6 (16)	–

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			Z-SCH.../25	Z-SCH.../40	Z-SCH.../63	Z-SC
DC-3 and DC-5 (inductive load L/R ≧ 15 ms) make contacts						
1-pole						
24 V DC		A	15	23	25	–
48 V DC		A	5	10	10	–
60V DC		A	4	5	5	–
110V DC		A	1	1.5	1.5	–
220V DC		A	0.1	0.3	0.3	–
2-pole in series						
24 V DC		A	25	40	45	–
48 V DC		A	17	23	25	–
60V DC		A	13	15	15	–
110V DC		A	5	5	5	–
220V DC		A	0,5	1	1	–
3-pole in series						
24 V DC		A	25	40	63	–
48 V DC		A	25	40	45	–
60V DC		A	25	30	30	–
110V DC		A	15	15	15	–
220V DC		A	3	4	4	–
4-pole in series						
24 V DC		A	25	40	63	–
48 V DC		A	25	40	63	–
60V DC		A	25	40	63	–
110V DC		A	25	40	45	–
220V DC		A	8	10	10	–
Auxiliary contacts						
Rated insulation voltage	U_i	V AC	–	–	–	440
Nominal thermal current			–	–	–	
40 °C	I_{th}	A	–	–	–	10
60 °C	I_{th}	A	–	–	–	6
Admissible operating frequency		Operations/hour	–	–	–	600
Mechanical lifespan		Operations	–	–	–	5×10^6
Heat dissipation per contact	P_v	W	–	–	–	0,5
AC-15 (electromagnetic load)						
220 – 240 V		A	–	–	–	3
380 – 415 V		A	–	–	–	2
440 V		A	–	–	–	1.6
DC-13 (electromagnetic load)						
24 – 60 V		A	–	–	–	2
110 V		A	–	–	–	0.4
220 V		A	–	–	–	0.1
Mechanical						
Switch-On and switch-Off noises		db	80	78	78	–
Terminal capacity						
Main cable						
Solid		mm^2	1 × 1.5 – 10	1 × 1.5 – 10	1 × 1.5 – 10	1 × 0.5 – 2.5
Stranded		mm^2	1 × 1.5 – 6	1 × 1.5 – 6	1 × 1.5 – 6	1 × 0.5 – 2.5
Flexible with ferrule		mm^2	1 × 1.5 – 6	1 × 1.5 – 6	1 × 1.5 – 6	1 × 0.5 – 2.5
Coil						
Solid		mm^2	1 × 0.75 – 2.5	1 × 0.75 – 2.5	1 × 0.75 – 2.5	–
Stranded		mm^2	1 × 0.5 – 2.5	1 × 0.5 – 2.5	1 × 0.5 – 2.5	–
Flexible with ferrule		mm^2	1 × 0.5 – 1.5	1 × 0.5 – 1.5	1 × 0.5 – 1.5	–
Switching delays						
Closing delay		ms	9 – 15	11 – 15	11 – 15	–
Opening delay		ms	4 – 6	6 – 13	6 – 13	–
Arcing time		ms	10 – 15	10 – 15	10 – 15	–

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			Z-LMS
Electrical			
Rated operational voltage	U_n	V AC	230 + 6% – 10 %
Rated frequency	f	Hz	50 – 60
Power consumption		mA	9.5
Intrinsic consumption		VA	2.2
Switching contact (potential-free)			1 W
Rated insulation voltage	U_i	V AC	250
Rated current		µA	16
Switching duty			
Resistive load, cos φ = 1		W	3500
Filament bulb load, cos φ = 1		W	2300
Inductive load, cos φ = 0.8, 250 V		A	3
On-delay		s	8
Off-delay		s	38
Switch status			
Relay On			Red LED
Switching point			Green LED
Setting ranges		Lux	2 – 100 2 – 1000 2 – 10000
Duty factor		%	100
Mechanical			
Standard front dimension		mm	45
Device height		mm	90
Mounting width		mm	36
Weight		g	285
Mounting			Top-hat rail IEC/EN 60715
Degree of protection			
Enclosed			IP40
Terminals			Lift terminals
Terminal capacity			
Solid		mm^2	0.5 – 2.5
Stranded		mm^2	0.5 – 2.5
Flexible with ferrule		mm^2	0.5 – 2.5
Tightening torque of terminal screws		Nm	0.5
Max. cable length to the light sensor At 2 × 0.5 mm^2		m	100
Ambient temperature		°C	0 – 55 °C

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			Z-SDM/1K-TA	Z-SDM/1K-WO	Z-SDM/2K-WO
Electrical					
Standards			DIN EN 60730		
Rated operational voltage	U_n	V AC	230		
Rated frequency	f	Hz	50/60		
Current consumption, cos φ = 0.13		mA	29		
Apparent power		VA	6.6		
Reactive power		VAr	6.5		
Power loss		W	0.9		
Switching contact (potential-free)			1 W		
Rated insulation voltage	U_i	V AC	250		
Rated current		µA	16		
Switching duty					
Resistive load, cos φ = 1		W	3000		
Filament bulb load, cos φ = 1		W	1000		
Inductive load, cos φ = 0.6, 250 V		A	2		
Reserve power		h	250		
Reserve power store			NiMH battery		
Data retention by			EEPROM		
Accuracy		Ops./day	Approx. 1		
Switching accuracy			Accuracy to the second		
Quartz frequency		MHz	32.768		
On/Off times, freely programmable		Per day	20	–	–
		Per week	–		
Switching interval			1 min or 1 s		
Mechanical					
Standard front dimension		mm	45		
Device height		mm	90		85
Mounting width		mm	36		
Weight		g	170		200
Mounting			Top-hat rail IEC/EN 60715		
Degree of protection					
Enclosed			IP40	IP40	IP40
Terminals			Lift terminals		
Terminal capacity					
Solid		mm^2	1.5 – 4		
Stranded		mm^2	1 – 2.5		
Tightening torque of terminal screws		Nm	0.8		
Admissible relative humidity		%	< 95		
Ambient temperature		°C	-25 to +55		
Flammability classification to EN 60730			D		

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			SU-GS/1W-TA, (-WO)	SU-GQ-TA	SU-GS/1W-TA, (-WO)	SU-GQ/2W-TW
Electrical						
Standards			DIN EN 60730			
Rated operational voltage	U_n	V AC	220 – 240			
Rated frequency	f	Hz	50			
Intrinsic consumption		VA	1			
Switching contact (potential-free)			1 W	1 M	1 W	2 C/O
Rated insulation voltage	U_i	V AC	250			
Rated current		µA	16			
Switching duty						
Resistive load, cos φ = 1		W	3500			
Filament bulb load, cos φ = 1		W	1350	1000	1350	
Inductive load, cos φ = 0.6, 250 V		A	4			
Reserve power		h	–	50	150	
Actuation			Synchronous	Quartz		
Program			Day or week	Day	Day or week	
On/Off times, freely programmable		Per day	48			
		Per week	48	–	48	
Switching interval						
Day		min	30			
Week		h	3.5	–	3.5	
Mechanical						
Standard front dimension		mm	45			
Device height		mm	85	90	85	85
Mounting width		mm	52.5	17.5	52.5	105
Weight		g	160	110	170	220
Mounting depth		mm	60			
Mounting			Top-hat rail IEC/EN 60715			
Degree of protection						
Enclosed			IP20			
Terminals			Lift terminals			
Terminal capacity						
Solid		mm^2	1.5 – 4			
Stranded		mm^2	1 – 2.5			
Tightening torque of terminal screws		Nm	0.8			
Admissible relative humidity		%	< 95			
Ambient temperature		°C	-25 to +55			
Flammability classification to EN 60730			D			
Sealability			Yes			

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Buzzer, bell			Z-SUM	Z-GLO
Electrical				
Rated operational voltage	U_n	V AC	12, 24, 230	
Rated frequency	f	Hz	50 – 60	
Power loss				
12 V		VA	5	
24 V, 230 V		VA	10	
Duty factor		%	100 (5 min)	
Sound level		dB/1 m	84	80
Mechanical				
Standard front dimension		mm	45	
Device height		mm	85	
Mounting width		mm	17.5	
Mounting			Top-hat rail IEC/EN 60715	
Degree of protection			IP20	
Terminals			Lift terminals	
Terminal capacity		mm^2	1 – 10	
Terminal screws			Captive	

Lightning current arresters			SPI-35/440	SPI-50/NPE	SPI-100/NPE
Electrical					
Style			Enclosed	Enclosed	Enclosed
Response time	t_a	ns	< 100	< 100	< 100
Voltage protection level	U_p	kV	1.5	1.5	1.5
Maximum uninterrupted voltage	U_c	V AC	440	260	260
Rated frequency	f	Hz	50/60	50/60	50/60
Discharge current (8/20 µs)	I_{max}/I_n	kA	35	50	100
Lightning surge current (10/350µs)					
Peak current		kA	35	50	100
Charge	Q	As	17,5	25	50
Specific energy		KJ/Ω	305	625	2500
Insulation resistance	R_{iso}	MΩ	> 10	> 10	> 10
Short-circuit current quenching without back-up fuse					
260 V		A_{rms}	3000	500	100
440 V		kA_{rms}	1.5	–	–
Short-circuit current quenching with max. back-up fuse		kA_{rms}	25	–	–
Max. admissible back-up fuse		A gL	125	–	–
Mechanical					
Standard front dimension		mm	45	45	45
Device height		mm	90	90	90
Mounting width		mm	17.5	17.5	35
Weight		g	174	178	320
Mounting			Top-hat rail IEC/EN 60715		
Degree of protection					
Device			IP20		
Enclosed			IP40		
Terminals			Lift terminals		
Terminal capacity					
Solid		mm^2	0.5 – 35	0.5 – 35	10 – 50
Stranded		mm^2	0.5 – 25	0.5 – 25	16 – 35
Tightening torque of terminal screws		Nm	4 – 4.5	4 – 4.5	6 – 8
Admissible relative humidity		%	< 95	< 95	< 95
Ambient temperature		°C	-40 to +85	-40 to +85	-40 to +85

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			SPC-E-280	SPC-EH-280	SPC-EH-335[1)]	SPC-E-460	SPC-E-N/PE SPG-S-NPE	SPC-S-20/280	SPC-S-20/335[1)]	SPC-S-20/460
Electrical										
Mechanical coding			–	–	–	–	–	Yes	Yes	Yes
Style			II	II	II	II	–	II	II	II
Response time (rate of voltage rise 5 kV/µs)		ns	< 25	225	< 25	< 25	< 100	< 25	< 25	< 25
Voltage protection level at nominal discharge current		kV	< 1.4	< 1.3	< 1.5	< 2.1	< 1.2	< 1.4	< 1.5	< 2.1
Maximum uninterrupted voltage	U_c	V AC	280	280	335	460	260	280	335	460
Discharge current (8/20 µs)	I_n	kA	20	25	20	20	20	20	20	20
Charge at I_n	Q	As	0.57	0.71	0.57	0.57	0.57	0.57	0.57	0.57
Specific energy at I_n		KJ/Ω	5.7	8.9	5.7	5.7	5.7	5.7	5.7	5.7
Max. discharge current	I_{max}	kA	40	50	40	40	40	40	40	40
Max. admissible back-up fuse		A gL	125	125	125	125	–	160	160	160
Max. admissible short-circuit current		kA	50	50	50	50	50	50	50	50
Short-circuit current quenching at U_e and I_n		A	–	–	–	–	100	–	–	–
Mechanical										
Standard front dimension		mm	45							
Device height		mm	80							
Mounting width		mm	17.5							
Mounting			IEC/EN 60 715 top-hat rail							
Degree of protection										
Enclosed			IP40							
Terminals			Lift terminals							
Open-mouth terminal for busbars up to		mm	1.5							
Tightening torque of terminal screws		Nm	2.4 – 3							
Terminal capacity		mm^2	4 – 25							

Notes [1)] Mandatory in Austria for operation in 230/400 V supply systems

			VDK-280 ES
Electrical			
Combined surge	U_{oc}	kV	4
Voltage protection level at U_{oc} symm./asymm. (PE)		kV	≦ 1.3/≦ 1.5
Response time	t_a	ns	≦ 25/≦ 150
Uninterrupted arrester voltage	U_c	V AC	250
Rated frequency	f	Hz	50
Rated arrester discharge current (8/20 µs) Symm./asymm. (PE)	I_n	kA	1.5/1.5
Discharge current Symm./asymm. (PE)	I_{max}	kA	4.5/4.5
Residual voltage at I_n symm./asymm. (PE)		kV	≦ 1.2/≦ 0.65
Max. admissible back-up fuse		A gL, C	16
FN contact			
Max. admissible operating voltage		V AC	250
Max. admissible operating current at 40 °C		A	3
Mechanical			
Weight		g	60
Degree of protection			
Device			IP20
Enclosed			IP40
Terminal capacity			
Solid		mm^2	0.2 – 4
Flexible		mm^2	0.2 – 2.5
Tightening torque of terminal screws		Nm	0.5 – 0.6
Ambient temperature		°C	-40 to +75

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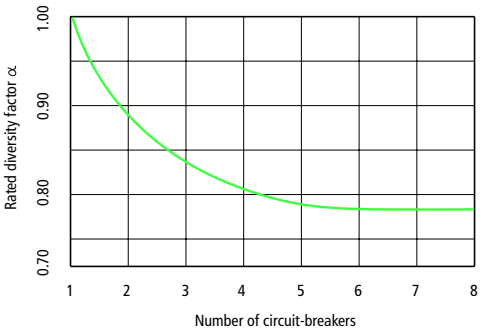
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Influence of the ambient temperature on the thermal tripping behaviour

Corrected values of the rated current dependent on the ambient temperature

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

Load carrying capacity of adjoining miniature circuit-breakers



Influence of the mains frequency

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

	Mains frequency f [Hz]						
	16⅔	50	60	100	200	300	400
$I_{MA}(f)/I_{MA}$ (50 Hz) [%]	91	100	101	106	115	134	141

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			S14	S18	RS183-50	S27	RS273-50	S33	RS333-50
General technical data									
Standards									
Fuse bases: (R)S27(1), R(S)33(1)			VDE 0636 CEE 16						
Fuse bases: RS27-3, RS33-3			VDE 0636						
Shrouds			VDE 0636						
Gauge ring system			DIN 49326 DIN 49327 DIN 49524						
Gauge screw system RS27 (33)-3/FORMP			DIN 49510						
Ambient temperature		°C	-5 to 25 (+40, where annual and 24-hour mean value ≦ 35						
Mounting position			As required						
Rated uninterrupted current	I_u	A	16	63	63	25	25	63	63
Contacts									
Rated operational voltage	U_e	V AC	400	400	400	500	500	690	690
Creepage and clearance distances			VDE 0636 Part 41			VDE 0636 Part 31			
Current heat loss per contact at rated uninterrupted current I_u		W	2.2	5.5	5.5	3.9	3.9	7.5	7.5
Terminal capacity									
Solid		mm^2	0.75 – 4	0.75 – 16	2.5 – 16	1 – 10	1.5 – 6	2.5 – 16	2.5 – 16
Flexible with ferrule		mm^2	0.5 – 2.5	0.5 – 25	2.5 – 16	0.75 – 10	1.5 – 6	1.5 – 25	1.5 – 25

Notes Load carrying capacity of fuse enclosures taking into account the derating factors to IEC/EN 60439 and VDE 0660 Part 500 and Part 504, and the cross-sections of the incoming cable.



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			GS(T...)00	GS(T...)00-160	GS(T...)1	GS(T...)2	GS(T...)3
General technical data							
Standards			IEC/EN 60947-3 VDE 0660 Part 107				
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclical, to IEC 60068-2-30				
Ambient temperature		°C	-25 to +55				
Altitude		m	Max.2000				
Mounting position			Vertical, horizontal				
Overvoltage category/pollution degree			III/3	III/3	III/3	III/3	III/3
Touch protection at the front							
Operational status			IP20	IP20	IP20	IP20	IP20
Front cover open			IP10	IP10	IP10	IP10	IP10
Direction of incoming supply			As required	As required	As required	As required	As required
Lifespan, mechanical	Operations		1700	1700	1700	1700	1700
Weight		kg	0.72	0.72	2.5	3.1	4.8
Contacts							
Rated operational voltage	U_e	V AC	500	500	500	500	500
Rated operational voltage	U_e	V DC	230	230	230	230	230
Rated operational current	I_e	A	100	160	250	400	630
Rated frequency		Hz	40 – 60	40 – 60	40 – 60	40 – 60	40 – 60
Rated conditional short-circuit current, AC		A	50	50	50	50	50
Rated conditional short-circuit current, DC		kA_{rms}	25	25	25	25	25
Utilization category AC-22B							
Rated making capacity		A	480	480	750	1200	1890
Rated breaking capacity		A	480	480	750	1200	1890
Utilization category DC-21B							
Rated making capacity		A	240	240	375	600	945
Rated breaking capacity		A	240	240	375	600	945
Lifespan, electrical	Operations		300	300	200	200	200
Heat dissipation at I_{th} AC, without NH-SE			2.7	6.9	12.9	27	52
Heat dissipation at I_{th} DC, without NH-SE			4.6	4.6	8.6	18	34.7
Rated insulation voltage	U_i	V AC	750	750	750	750	750
Maximum fuse							
Size			NH00	NH00	NH1	NH2	NH3
Max. rated current, gL/gG		A	100	160	250	400	630
Max. admissible heat dissipation, NH-SE		W	12	12	23	34	48
Terminal capacity							
Box terminal							
Stranded, Cu		mm^2	1.5 – 70	1.5 – 70	25 – 150	25 – 240	25 – 300
Copper strip	Number of layers × width × thickness	mm	6 × 9 × 0.8	6 × 9 × 0.8	6 × 16 × 0.8	10 × 16 × 0.8	11 × 21 × 1
Tightening torque		Nm	2.6	2.6	9.5	23	23
Clamp-type terminal							
Stranded, Al/Cu		mm^2	–	–	70 – 150	120 – 240	120 – 300
Tightening torque		Nm	–	–	9.5	11	9.5
Double clamp-type terminal							
Stranded, Al/Cu		mm^2	–	–	2 × (70 – 95)	2 × (120 – 150)	2 × (120 – 240)
Tightening torque		Nm	–	–	11	11	11

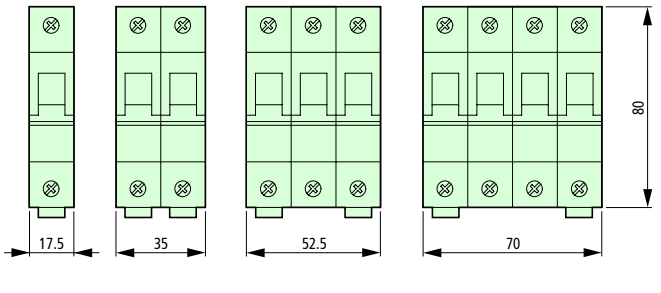
Notes GS... and GSTA: mechanical shock resistance to Regulation Class RK 1,6/16 of the German Ministry responsible for buildings

[1] Applies to the ambient temperature: The effect of the ambient temperature on the load capability of NH fuse links at 55 °C is $I/I_n \approx 0.9$.

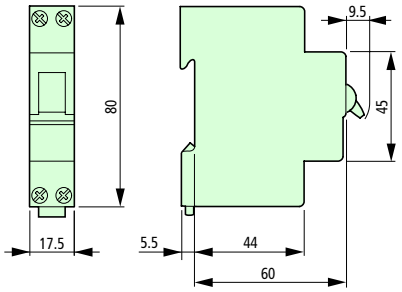
[2] Applies to fuse links: NH fuse links (NH-SE) of size 00-160 A to VDE 0636 Part 21, May 84, are not authorized to carry a VDE approval mark.

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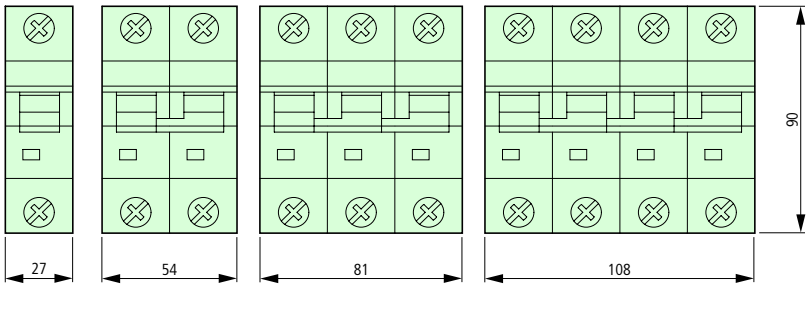
Miniature circuit-breakers
FAZ



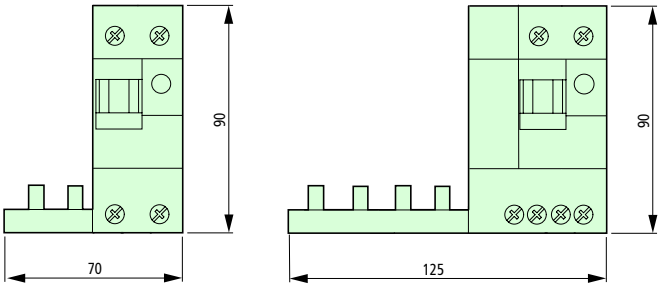
FAZ-PN



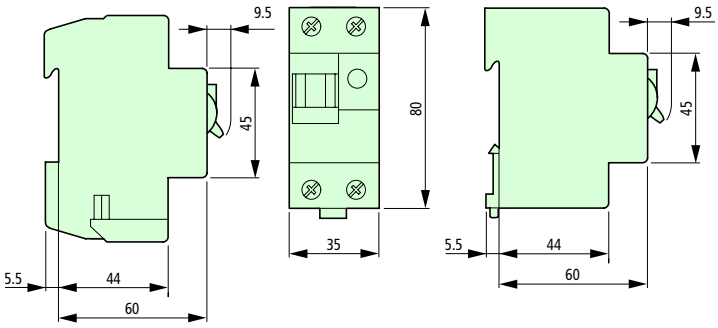
High-capacity miniature circuit-breakers
AZ



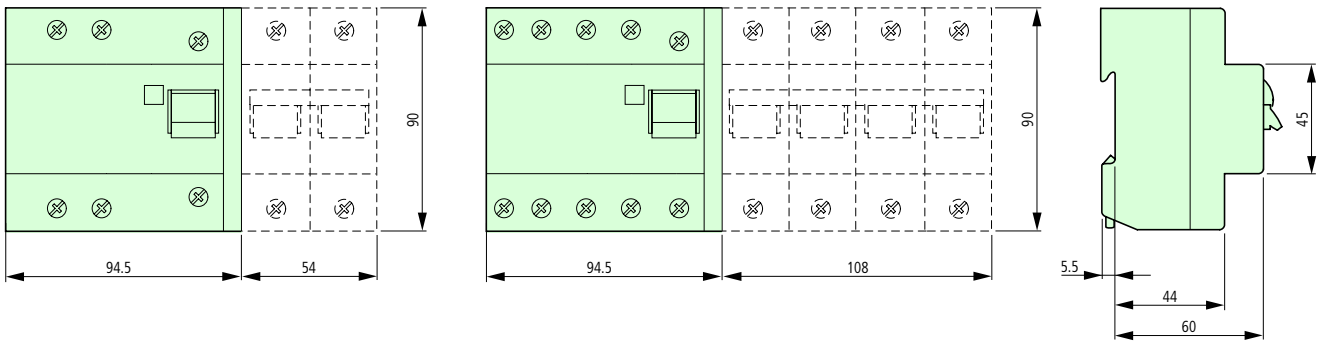
Residual-current circuit-breakers
FIM



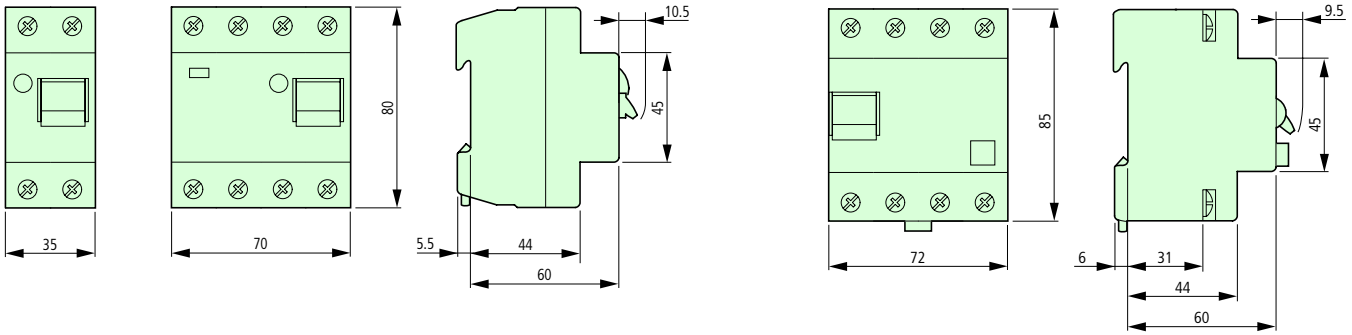
Combined RCD/MCB devices
PKNM



Residual-current circuit-breakers
AZFIMP



Residual-current circuit-breakers
FI

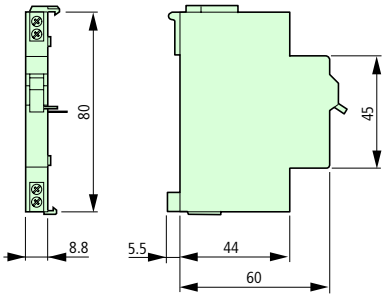


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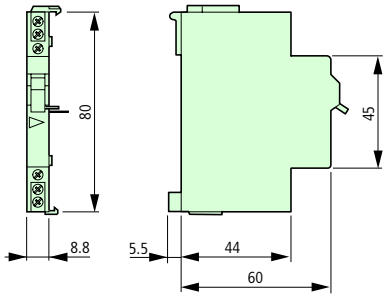
Moeller HPL0211-2004/2005

Auxiliary contacts

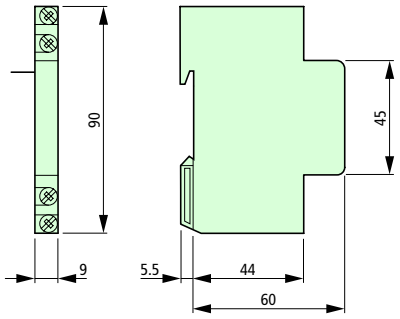
FAZ-XHI11



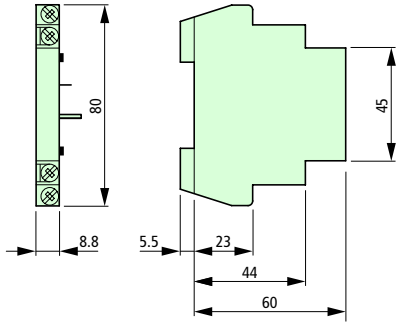
FAZ-XAM002



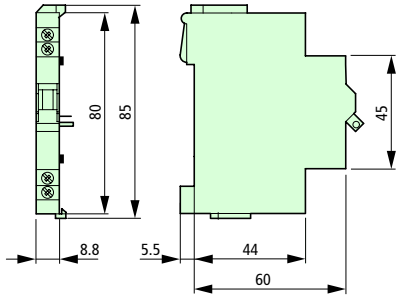
AZ-XHI11



FIP-XHI11

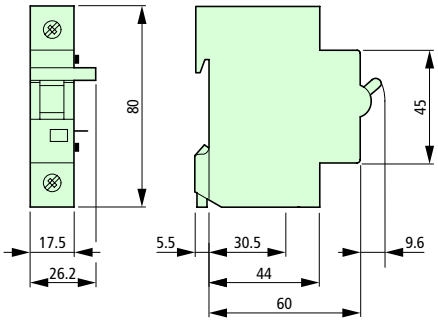


FIPA-XAM011

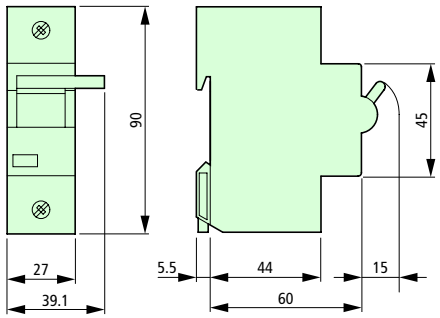


Shunt releases

FAZ-XAA

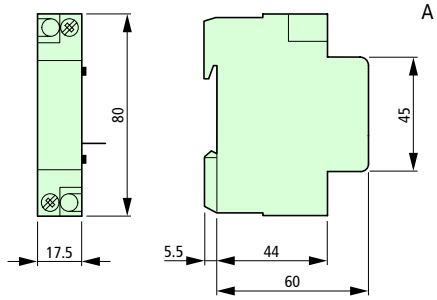


AZ-XAA



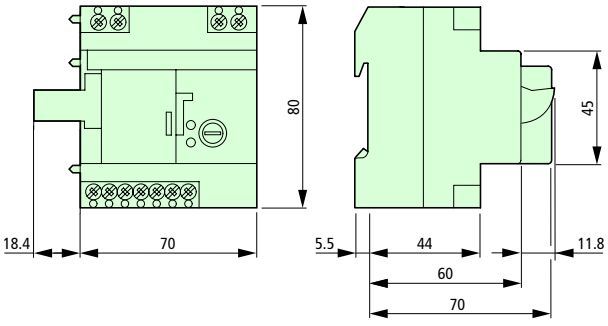
Undervoltage release

FAZ-XUA



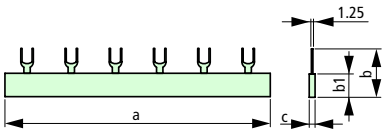
Remote control and switching devices

FAZ/FIP



Commoning link for miniature circuit-breakers

FAZ-XIS



Commoning link for miniature circuit-breaker without auxiliary contacts

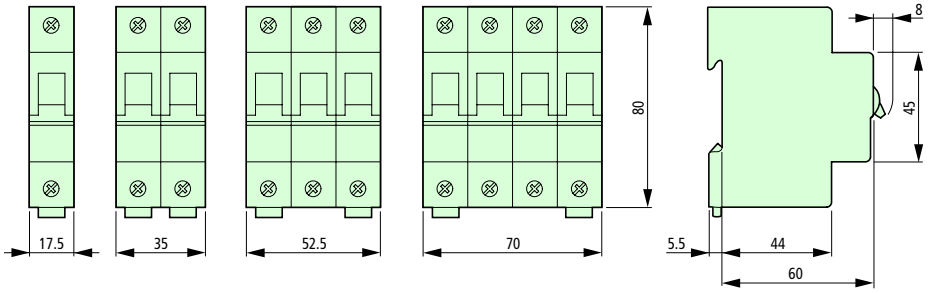
Type	a	b	b1	c
FAZ-XIS1/2	30	27	14	3,5
FAZ-XIS1/6	104	27	14	3,5
FAZ-XIS1/12	207	27	14	3,5
FAZ-XIS2/4	65	27	14	6,3
FAZ-XIS2/6	104	27	14	6,3
FAZ-XIS2/12	207	27	14	6,3
FAZ-XIS3/6	104	27	14	9
FAZ-XIS3/12	206	27	14	9
FAZ-XIS4/8	141	27	14	11,8
FAZ-XIS4/12	207	27	14	11,8

Commoning link for miniature circuit-breaker with auxiliary contacts

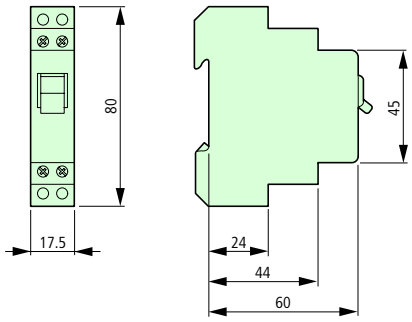
Type	a	b	b1	c
FAZ-XIS1/2-HI	53	27	14	3,5
FAZ-XIS1/6-HI	155	27	14	3,5
FAZ-XIS1/9-HI	228	27	14	3,5
FAZ-XIS2/4-HI	73	27	14	6,3
FAZ-XIS2/6-HI	120	27	14	6,3
FAZ-XIS2/10-HI	207	27	14	6,3
FAZ-XIS3/6-HI	120	27	14	10,7
FAZ-XIS3/12-HI	236	27	14	10,7
FAZ-XIS31/6-HI	155	27	14	10,7
FAZ-XIS31/8-HI	207	27	14	10,7
FAZ-XIS31/9-HI	236	27	14	10,7

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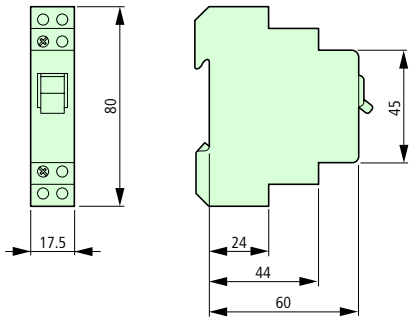
Main switches
IS



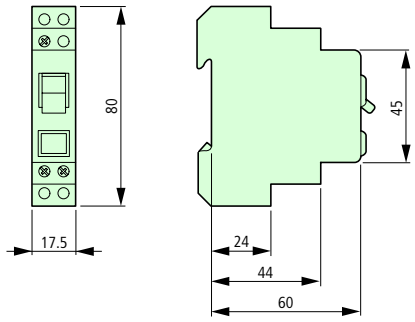
Control switches
Z-S



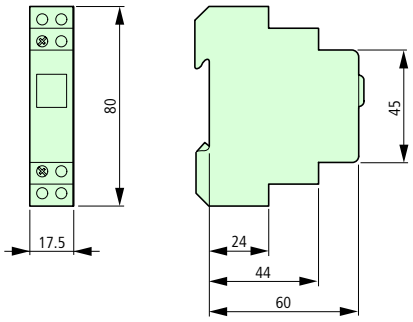
Z-SW



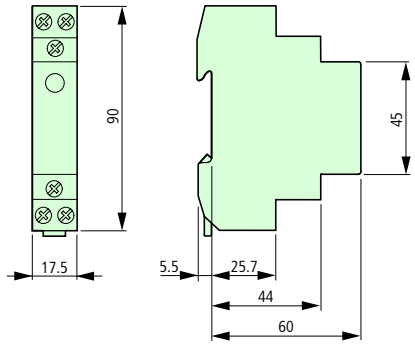
Control switches
Z-SL



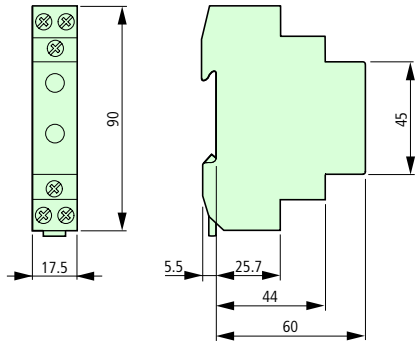
Pushbutton
Z-T



Indicator lights
Z-EL



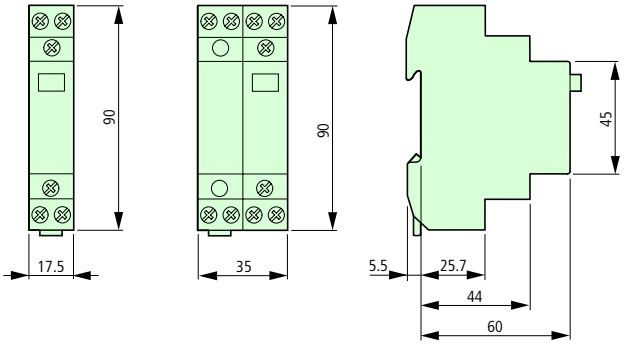
Z-DL



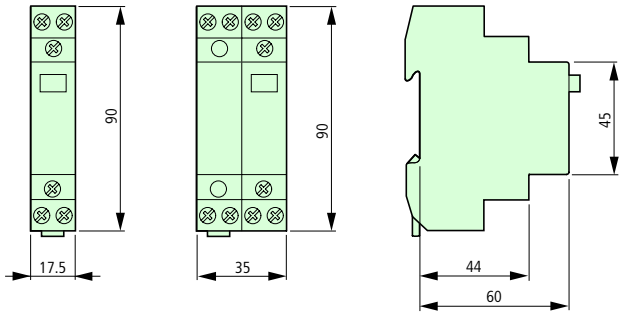
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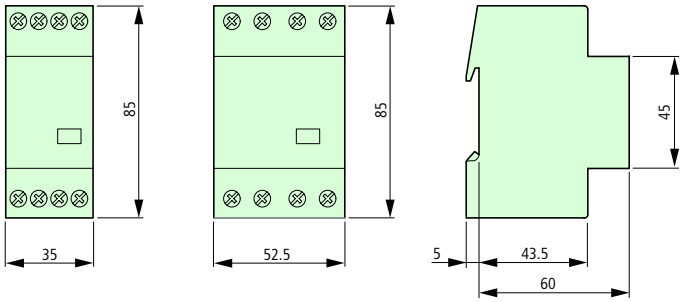
Impulse relays
Z-S



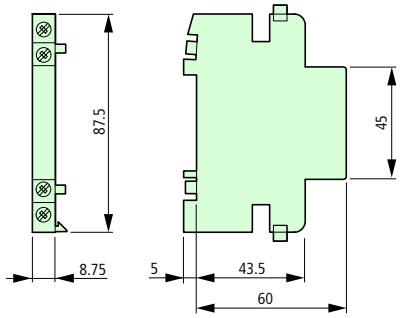
Installation relays
Z-R



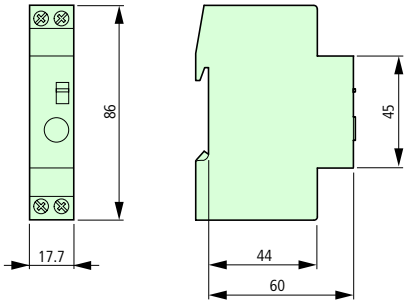
Installation contactors
Z-SCH



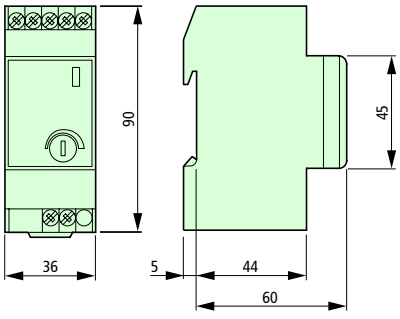
Auxiliary contact for installation contactors
Z-SC



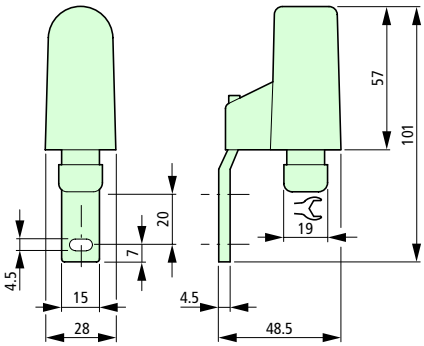
Staircase timers
Z-TLG



Light intensity switch
Z-LMS

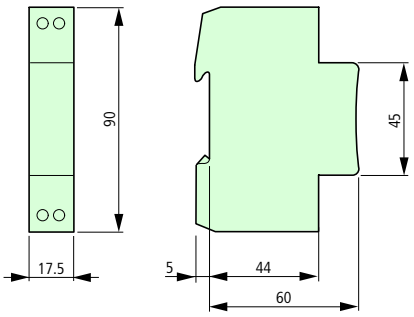


Light sensor
D35/3/SENSOR

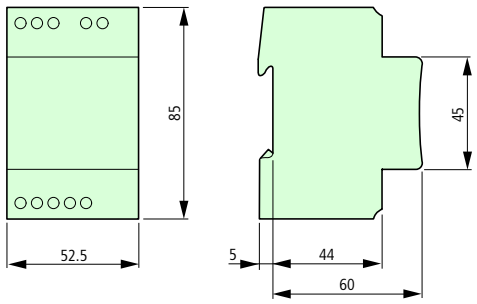


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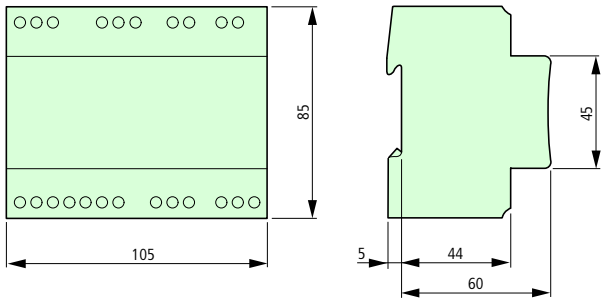
Day timer, analog
SU-GQ-TA



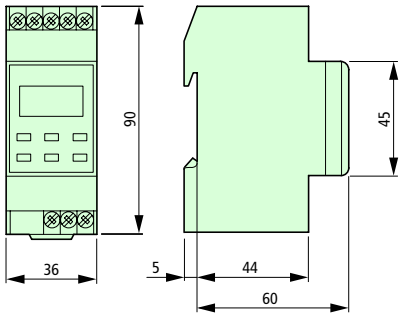
SU-GS/1W
SU-GQ/1W



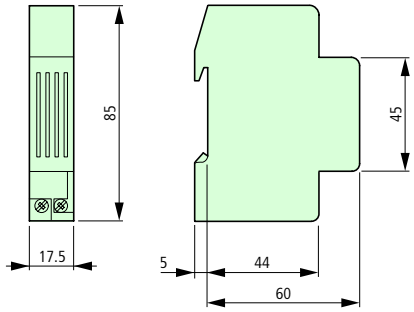
Day and week timer, analog
SU-GQ/2W



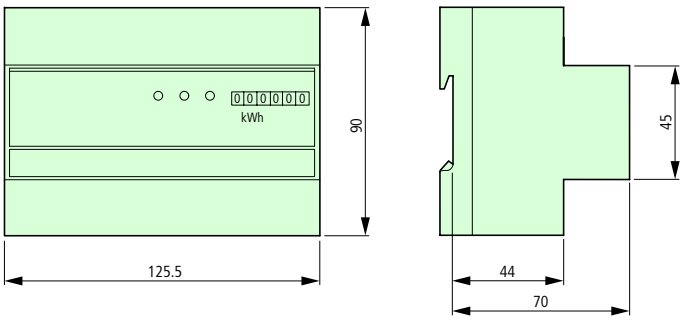
Timer, digital
Z-SDM



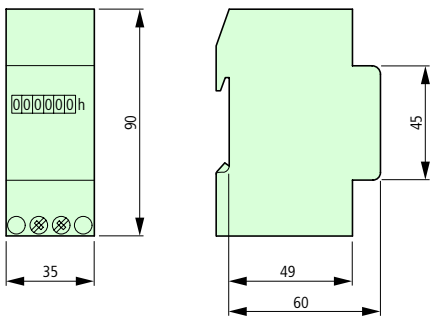
Buzzer, bell
Z-SUM Z-GLO



Power meter
Z-KWZ



Hours-run counters, pulse counters
Z-BSZ
Z-IMZ

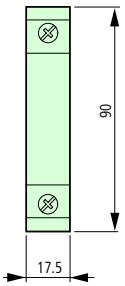


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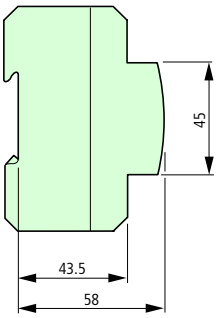
Moeller HPL0211-2004/2005

Lead-through terminal, Lightning current arresters B-type

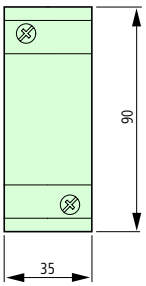
SPB-D-125

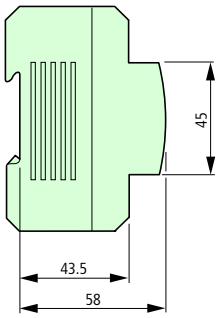


SPI-35/440
SPI-50/N/PE



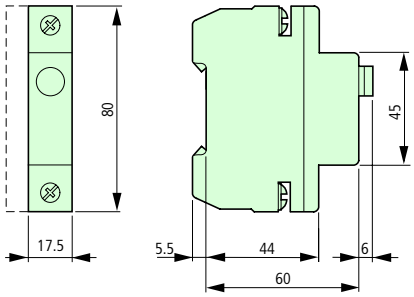
SPI-100/N/PE





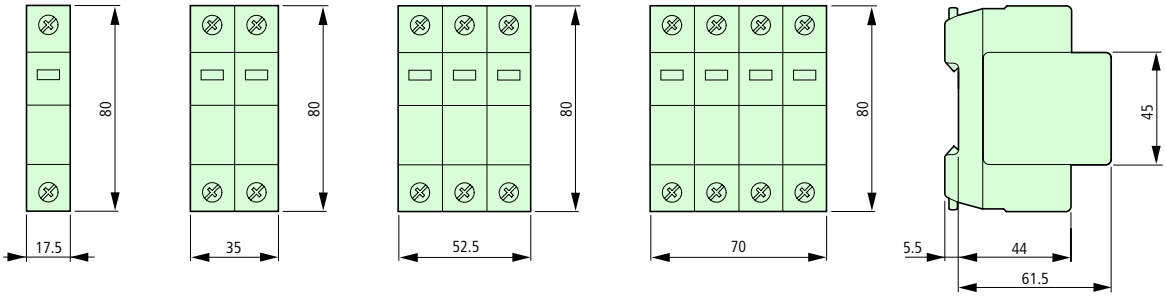
Surge arresters

SPC-E-...



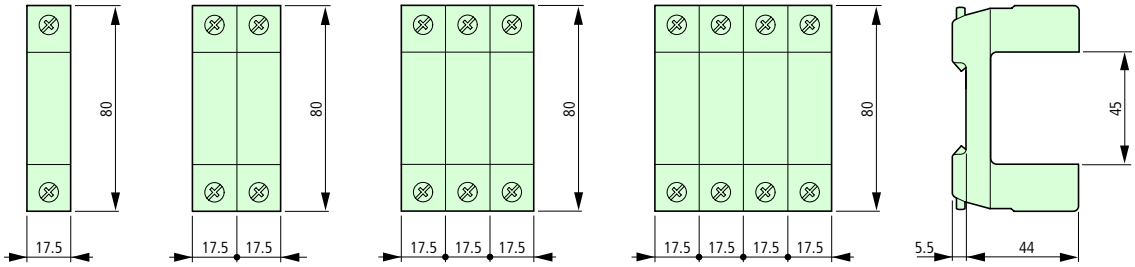
Surge arresters, complete

SPC-S.../1(2)(3)(4)



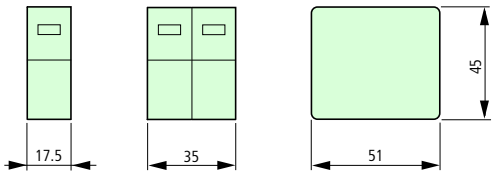
Bases for overvoltage arresters

SPC-S-S...



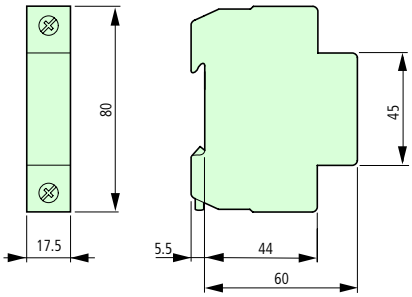
Surge arresters, plug-in

SPC-S...



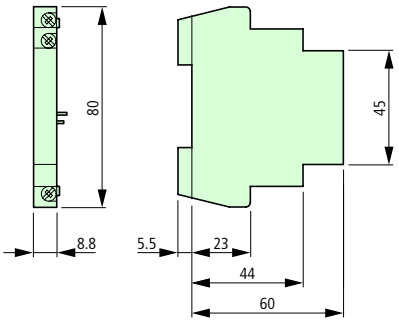
Lead-through terminal, C-type

Z-D63



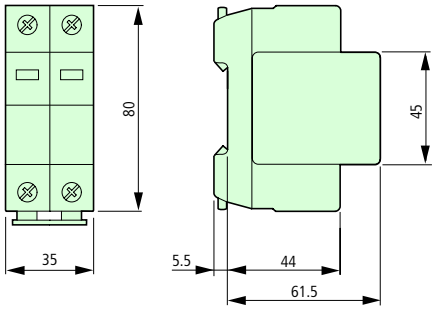
Auxiliary contact for C-type arresters

SP-S-HK



Surge protective devices

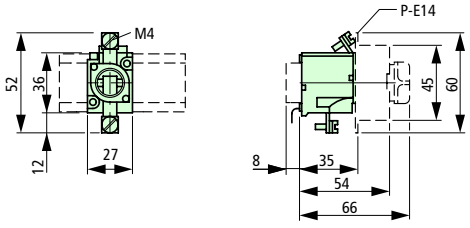
SPD-S-1+1



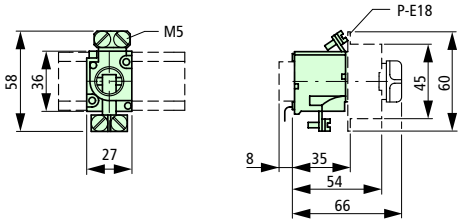
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Screw fuse bases

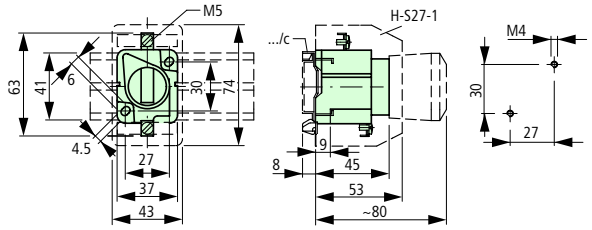
S14-1/C



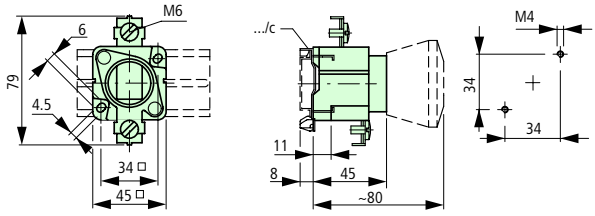
S18-1/C



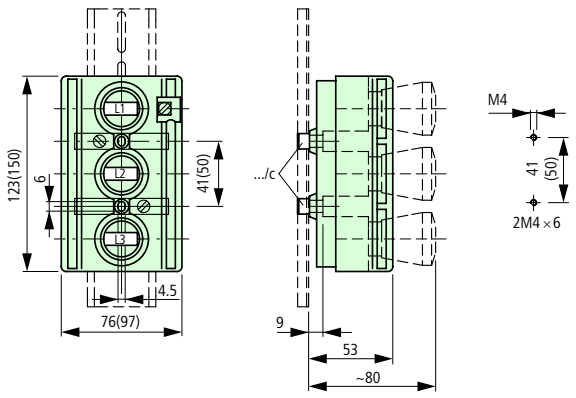
S27-1(/C)



S33-1(/C)

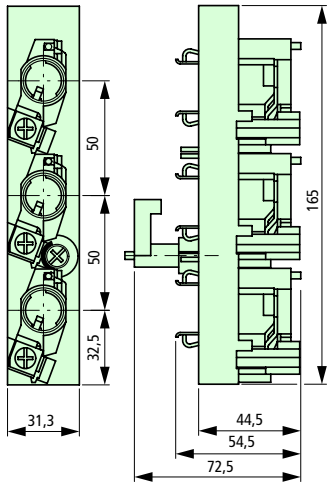


S27(/C)
S33(/C)
(...) = S33

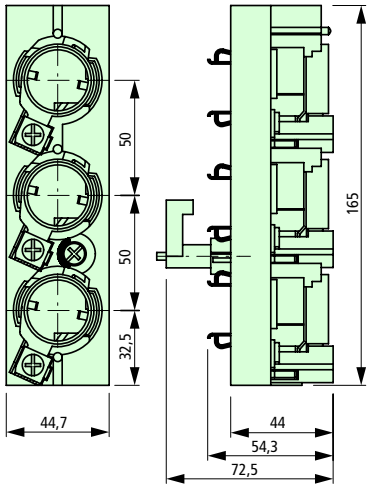


Busbar mounting fuse bases

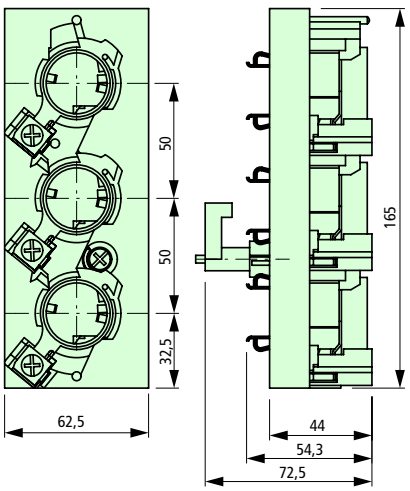
RS183-50



RS273-50

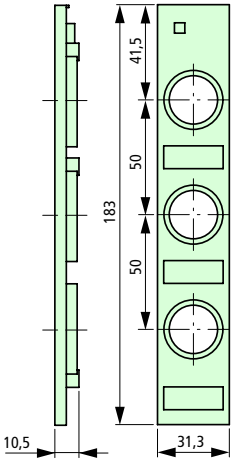


RS333-50

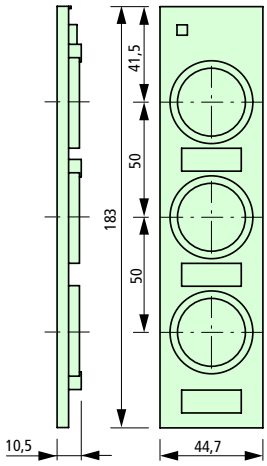


Covers

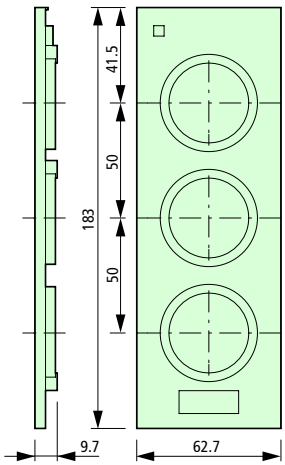
ZSRS183-50



ZSRS273-50



ZSRS333-50

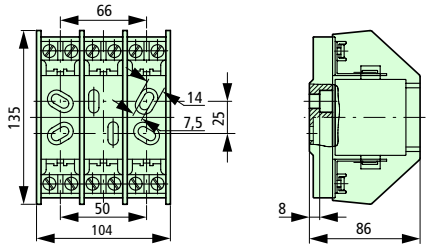


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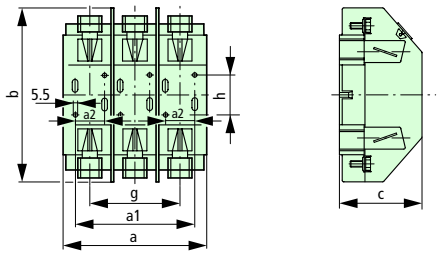
Moeller HPL0211-2004/2005

Low-voltage h.b.c. fuse bases

GS00
GS00-160



GS1
GS2
GS3

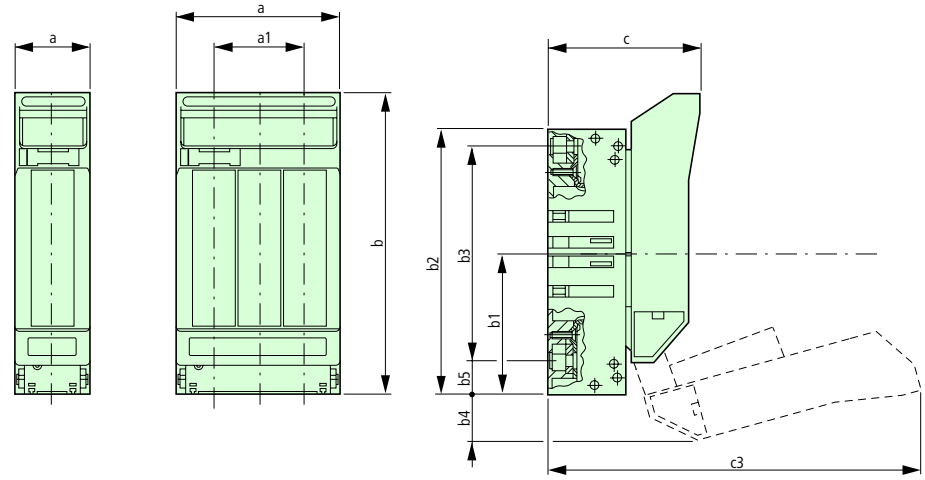


Type	a	a1	a2	b	c	g	h
GS1	180	150	–	218	103.5	116	25
GS2	202	175	25	248	116.5	130	50
GS3	248	200	50	256	117	160	50

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

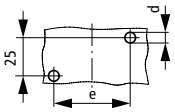
1-pole:
GSTA00-1P
GSTA00-160-1P

3-pole:
GSTA00, GSTA1
GSTA00-160, GSTA2
GSTA3

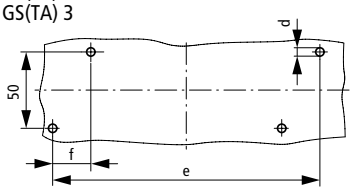


Drilling dimensions

GS(TA)00
GS(TA)1



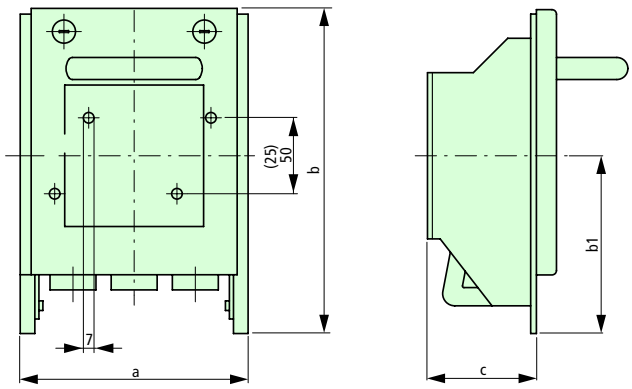
GS(TA) 2
GS(TA) 3



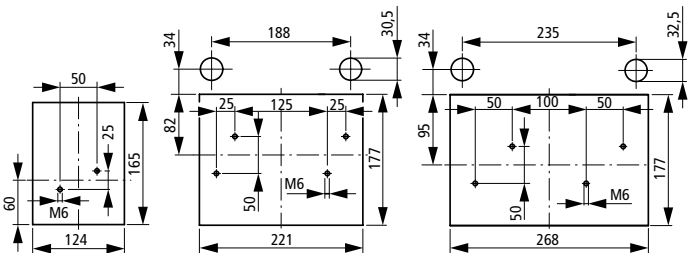
Type	a	a1	b	b1	b2	b3	b4	b5	c	c3	d	e	f
GSTA00-...-1P	49	–	169	79	149	120	25	–	86.5	197	7	–	–
GSTA00	106	66	169	79	149	120	25	26	86.5	197	7	50	–
GSTA1	182	116	250	115	230	184	30	23	111	294	5,5	150	–
GSTA2	208	132	275	128	256	217	30	19.5	125	330.5	5,5	175	25
GSTA3	254	164	283	135	270	238	30	16	142	348	5,5	200	50

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

GSTZ00, GSTZ1
GSTZ00-160, GSTZ2
GSTZ3



Drilling dimensions
Cover cutout
GSTZ00 GSTZ1/2 GSTZ3

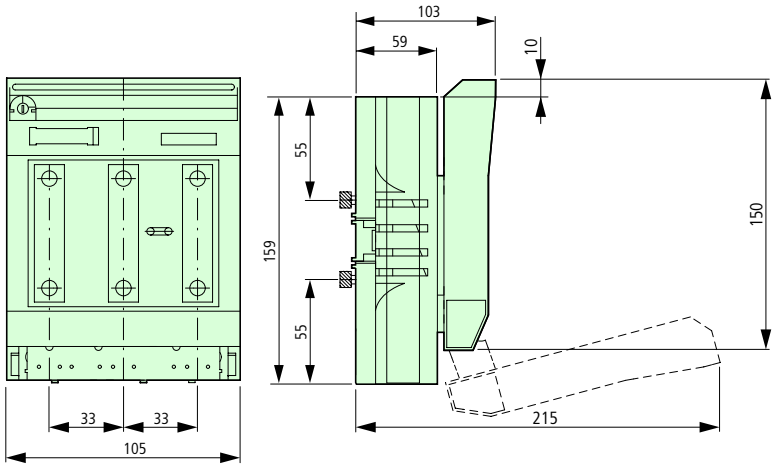


Type	a	b	b1	c
GSTZ00	150	214	117	85
GSTZ1	248	297	150	115
GSTZ2	248	297	150	131
GSTZ3	294	297	150	131

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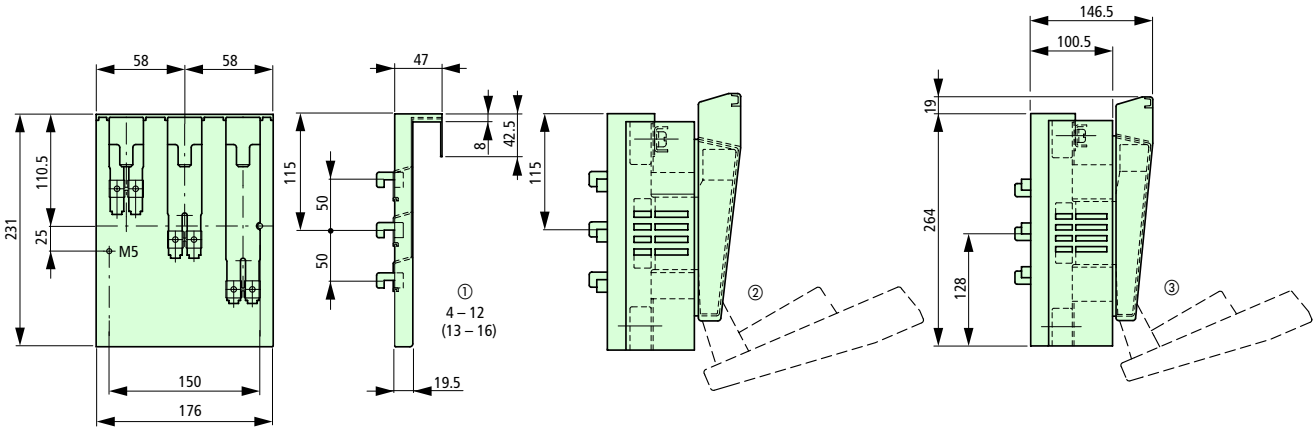
Low-voltage h.b.c. fuse switch-disconnectors for mounting on busbars

GST00(-160)-40-60-AOU

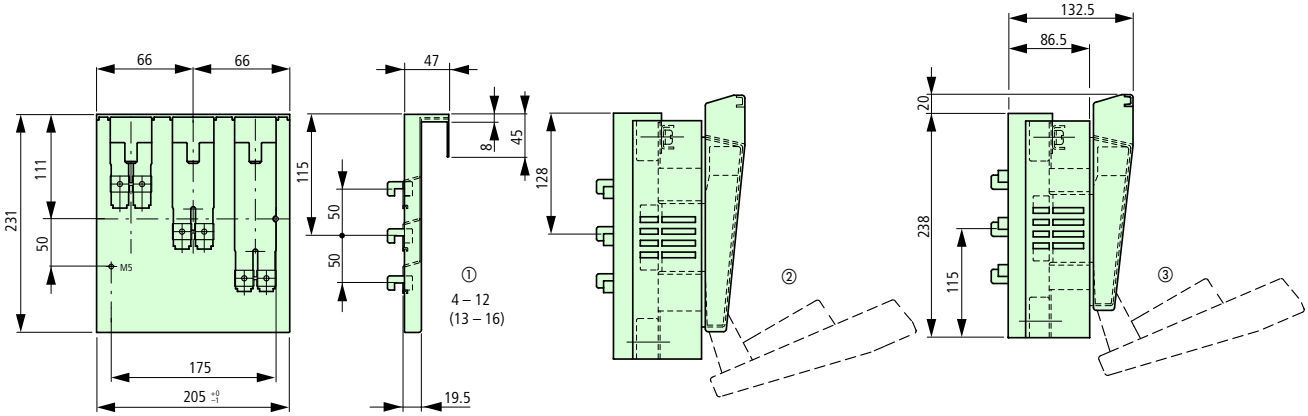


Adapter plates

A-GSTA-1/50(16)



A-GSTA-2/50(16)



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