Accessories for RCDs, MCBs, Combined RCD/MCB Devices, Motor Starters and Power Limiters

- Auxiliary Switch
- RCD-Tripping Module
- Shunt Trip Release
- Undervoltage Release
- Remote Control and Automatic Switching Device
- Switching Interlocks





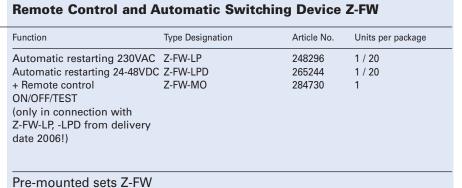




	Auxiliary Switch Z-HK,	Z-AHK, Z-HD; Trippin	g Signal Sv	vitch Z-NHK
	Design: for screwing			
	For Protective Device / Function	Type Designation	Article No.	Units per package
SG60911	PFIM, PFHM-4p, dRCM 1NO+1NC PLS., PKD., PFHM-2p1NO+1NC PLS., PKD., PFIM, PFHM dRCM	Z-AHK	248432 248433	4 / 120 4 / 120
Z-AHK	PFDM 1CO+1NC	Z-NHK Z-HD	248434 265620	4 / 120 1
	Auxiliary Switch ZP-AHK	, ZP-IHK, ZP-WHK; Trip	ping Signal	Switch ZP-NHK
	Design: for snapping			
SG60811	For Protective Device / Function	Type Designation	Article No.	Units per package
	PLS., PKN. 1NO+1NC PLS., PKN. 1NO+1NC PLS., PKN. 1CO PLS., PKN. 2CO	ZP-AHK ZP-IHK ZP-WHK ZP-NHK	248436 286052 286053 248437	4 / 120 4 / 120 4 / 120 4 / 120
ZP-IHK				
	RCD-Tripping Module	ZAM		
SG18011 SG18211 Z-FAM Z-KAM	PFIM, PFHM-4p, dRCM PKNM, PKDM, PFHM-2p	Z-FAM Z-KAM	248293 248294	1 / 60 1 / 60
	Shunt Trip Release Z-A	ASA, ZP-ASA		
SG00712 SG00212	Operational voltage range (V~)	Type Designation	Article No.	Units per package
Exten D Exten D	to be glued on 12-110 110-415 to be snapped on	Z-ASA/24 Z-ASA/230	248286 248287	1 / 60 1 / 60
Z-ASA ZP-ASA	12-110 110-415	ZP-ASA/24 ZP-ASA/230	248438 248439	1 / 60 1 / 60
	Undervoltage Release	Z-USA. Z-USD		
	Op. voltage range (V~)/Function	Type Designation	Article No.	Units per package
EAT N	to be screwed on 115 undelayed 230 undelayed 400 undelayed 115 delayed 0.4s 230 delayed 0.4s	Z-USA/115 Z-USA/230 Z-USA/400 Z-USD/115 Z-USD/230	248288 248289 248290 248292 248291	1 / 60 1 / 60 1 / 60 1 / 60 1 / 60

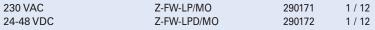


G30811				
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Set cor

• Set consisting of automatic switching device Z-FW-LP. and switching module Z-FW-MO







Remote Testing Module Z-FW (for Z-FW-LP./MO set use only)							
0,01 A	Z-FW/001	248297	4 / 120				
0,03 A	Z-FW/003	248298	4 / 120				
0,1 A	Z-FW/010	248299	4 / 120				
0,3 A	Z-FW/030	248300	4 / 120				
0.5 A	Z-FW/050	248301	4 / 120				

SG47812

Switching interlocks Is	S/SPE-1TE, Z-IS/SPE	-1TE	
Description	Type Designation	Article No.	Units per package
Switching interlock without lock for Isolators, RCDs, combined RCD/MCBs,		101911	5 / 30
Switching interlock without lock for MCBs and Circuit Breaker ZP-A	Z-IS/SPE-1TE	274418	5 / 30



Auxiliary Switch Z-HK, Z-AHK; Tripping Signal Switch Z-NHK

- Design according to IEC/EN 60947-5-1, IEC/EN 62019
- Can be mounted subsequently (screws)
- The specified minimum voltages are per contact Take into account particularly in case of series connection!
- Z-AHK, Z-NHK: Contact function with relative movement (self-cleaning
- Contact material and design particularly suitable for extra low voltage
- **Z-NHK:** The function of one of the two change-over contacts can be switched from "auxiliary switch" to "tripping signal switch"
- Tripping signal contact transmits message of electric tripping, not mechanical switch-off
- Test key for contact function "electrical tripping"

Connection diagrams



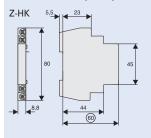


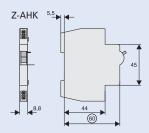
Technical Data

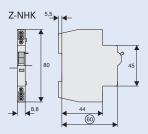
	Z-HK	Z-AHK	Z-NHK
Electrical			
Can be mounted from the left onto	PFIM, PFR, dRCM CFI6, PFHM-4p	CLS, L71, PFHM-2p CKN, PKDM	CLS, L71, CKN, PKDM
Can be mounted from the right onto	-	-	PFIM, PFR, CFI6, PFHM, dRCM
Contact function	1NO + 1NC	1NO + 1NC	2CO
Rated voltage	250 V	250 V	250 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Rated current	8 A	4 A	4 A
Rated thermal current I _{th}	8 A	4 A	4 A
Utilisation category AC13			
Rated operational current I _e	6A/250V AC 2A/440V AC	3A/250V AC -	3A/250V AC -
Utilisation category AC15			
Rated operational current I _e	-	2A/250V AC	2A/250V AC
Utilisation category DC12			
Rated operational current I _e	-	0.5A/110V DC	0.5A/110V DC
Utilisation category DC13			
Rated operational current I _e	0.5A/230V DC	-	-
	2A/110V DC	-	-
	4A/60V DC	-	-
Rated insulation voltage U _I	250 V AC	250 V AC	250 V AC
Minimum operational voltage per contact U _{min}	24 V AC/DC	5 V DC	5 V DC
Minimum operational current I _{min}	50 mA AC/DC	10 mA DC	10 mA DC
Rated peak withstand voltage U _{imp} (1.2/50µ)	2.5 kV	2.5 kV	2.5 kV
Conditional short circuit current I _k			
with back-up fuse 6A or PLSM-B4-HS	-	1 kA	1 kA
Max. back-up fuse, overload and short circuit	8 A gL / CLS6-4//B-H	S 6 A gL / CLS6-4//B-HS	S 6 A gL / CLS6-4//B-HS

Mechanical			
Tripping indicator "electrical tripping"	-	-	blue/white
Frame size	45 mm	45 mm	45 mm
Device height	80 mm	80 mm	80 mm
Device width	8.8 mm (0.5MU)	8.8 mm (0.5MU)	8.8 mm (0.5MU)
Mounting	onto switching dev	onto switching dev	onto switching dev.
Degree of protection, built-in	IP40	IP40	IP40
Terminal protection	finger and hand to	uch safe according t	o BGV A3, ÖVE-EN 6
Terminals	lift terminals	lift terminals	lift terminals
Terminal capacity	0.5-2.5 mm ²	0.5-2.5 mm ²	0.5-2.5 mm ²
Terminal screws	M3 (Pozidrive Z0)	M3 (Pozidrive Z0)	M3 (Pozidrive Z0)
Fastening torque of terminal screws	max. 0.8-1.0 Nm	max. 0.8-1.0 Nm	max. 0.8-1.0 Nm

Dimensions (mm)



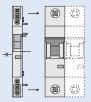


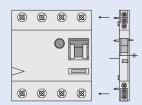




Example: Z-HK+PFIM Example: Z-AHK+CLS6 Note: The state of the state

Example: Z-NHK+CLS6 PFIM+Z-NHK



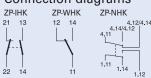


2CO 5V 10mA min.

Auxiliary Switch ZP-IHK, ZP-WHK; Tripping Signal Switch ZP-NHK

- Design according to IEC/EN 62019
- No screws required. Can be **snapped onto** PLS and PKNM subsequently
- **ZP-IHK, ZP-WHK:** can be snapped on additionally 1 time onto itself
- The specified minimum voltages are per contact. Take into account particularly in case of series connection!
- Contact material and design particularly suitable for extra low voltage.
 Contact function with relative movement (self-cleaning contacts)e)
- ZP-NHK: The function of one of the two change-over contacts can be switched from "auxiliary switch" to "tripping signal switch"
- Tripping signal contact transmits message of electric tripping, not mechanical switch-off
- Test key for contact function "electrical tripping"

Connection diagrams



ZP-NHK: The "Service button" is used to check whether or not the auxiliary switch is correctly wired in the tripping-signal-switch position. Activating the "service button" will mechanically simulate an electrical switch-off, so the mechanism for the electrical switch-off will disengage and can be checked. The main switchgear (MCB, combined MCB/RCD or RCD ...) connected to the ZP-NHK auxiliary switch does not need to trip as well during an inspection through the service button.

Technical Data

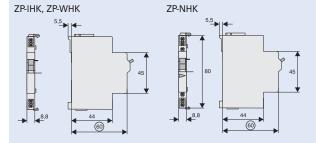
		ZP-IHK	ZP-WHK	ZP-NHK
Electrical				
Can be mounted from the left onto	MCB: RCD/MCB: Accessories:	PLS, PLZ PKNM ZP-A40, ZP-ASA, Z-MS 1xZP-IHK, 1xZP-WHK	PLS, PLZ PKNM ZP-A40, ZP-ASA, Z-MS 1xZP-IHK, 1xZP-WHK	PLS, PLZ PKNM ZP-A40, ZP-ASA, Z-MS
Contact function		1NO + 1NC	1CO	2CO
Rated voltage		250 V	250 V	250 V
Frequency		50/60 Hz	50/60 Hz	50/60 Hz
Rated current		6 A	6 A	4 A
Rated thermal current I _{th}		6 A	6 A	4 A
Utilisation category AC13				
Rated operational current I _e		3A/250V AC	3A/250V AC	3A/250V AC
Utilisation category AC15				
Rated operational current I _e		2A/250V AC	2A/250V AC	2A/250V AC
Utilisation category DC12				
Rated operational current I _e		0.5A/110V DC	0.5A/110V DC	0.5A/110V DC
Rated insulation voltage U _I		250 V AC	250 V AC	250 V AC
Minimum operational voltage per co	ontact U _{min}	5 V DC	5 V DC	5 V DC
Minimum operational current I _{min}		10 mA DC	10 mA DC	10 mA DC
Rated peak withstand voltage U _{imp} (1.2/50µ)	2.5 kV	2.5 kV	2.5 kV
Conditional short circuit current I _k	110	4.1.4	4.1.4	414
with back-up fuse 6A or PLSM-B4		1 kA	1 kA	1 kA
Max. back-up fuse, overload and sho	ort circuit	6 A GL / PLSIVI-B4-HS	6 6 A gL / PLSIVI-B4-HS	S 6 A gL / PLSM-B4-HS
Mechanical				
Tripping indicator "electrical tripping	<i>"</i>	-	-	blue/white
Frame size		45 mm	45 mm	45 mm
Device height		80 mm	80 mm	80 mm
Device width		8.8 mm (0.5MU)	8.8 mm (0.5MU)	8.8 mm (0.5MU)
Degree of protection, built-in		IP40	IP40	IP40
Terminal protection				o BGV A3, ÖVE-EN 6
Terminals		lift terminals	lift terminals	lift terminals
Terminal capacity		0.5-2.5 mm ²	0.5-2.5 mm ²	0.5-2.5 mm ²

max. 1.2 Nm

Dimensions (mm)

Fastening torque of terminal screws

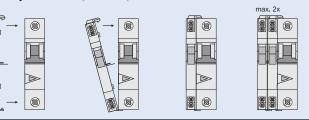
Terminal screws



Example: ZP-IHK (ZP-WHK) + PLS

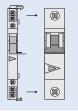
M4 (Pozidrive Z2) M4 (Pozidrive Z2) M3 (Pozidrive Z0)

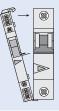
max. 1.2 Nm



max. 0.8-1.0 Nm

Example: ZP-NHK + PLS



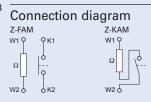






RCD Tripping Module Z-FAM (PFIM, PFHM-4p), Z-KAM (PKNM, PKDM, PFHM-2p)

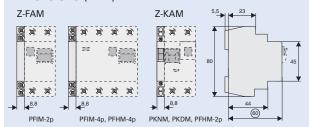
- For remote switch-off of RCDs, standard and electronic combined RCD/MCB devices.
- Remote switch-off by one or several parallel potential-free contacts, e.g. pushbutton max. rated current 3 A at 250 V, take into account maximum pushbutton voltage
- Remote tripping test by means of remote testing module Z-FW
- Can be mounted subsequently, to be wired according to connection diagram with the respective terminals of the RCD
- Tripping module for PFIM 0.5A upon enquiry
- No undesired voltage rise in the consumer system during remote switch-off thanks to integrated breaker contact K1-K2



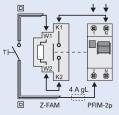
Technical Data

		_
	Z-FAM	Z-KAM
Electrical		
Tripping module for	PFIM, PFHM-4p, dRCM	PKNM, PKDM, PFHM-2p
Rated voltage	230(400) V AC	230(400) V AC
Frequency	50-60 Hz	50-60 Hz
Rated tripping current I _{An}	0.01 - 0.3 A	0.01 - 0.3 A
Function	1NO	1NO
Mechanical		
Frame size	45 mm	45 mm
Device height	80 mm	80 mm
Device width	8.8 mm (0.5MU)	8.8 mm (0.5MU)
Degree of protection, built-in	IP40	IP40
Terminal capacity	1 - 2x2.5 mm ²	1 - 2x2.5 mm ²
Terminal protection	finger and hand touch	safe, according to BGV A3, ÖVE-EN 6

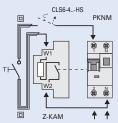
Dimensions (mm)



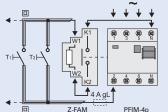
Connection examples Lay lines to the switching devices with double insulation and overload protection, e.g. 4A gL or CLS6-4...+IS



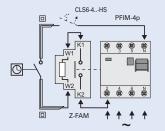
Connection diagram: PFIM-2p, RCD feed above



Connection diagram: PKNM, RCBO feed below



Connection diagram: PFIM-4p, RCD feed above



Connection diagram: PFIM-4p, RCD feed below



Shunt Trip Release Z-ASA, ZP-ASA

- Remote release for subsequent mounting onto PLS, CLS6, PKN, PKDM, Z-A40, Z-MS
- Module width 1MU
- Additional installation of standard auxiliary switch is possible
- Position indicator red green
- Type ZP-ASA for snap-on mounting

Connection diagram

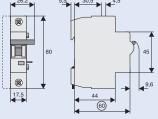


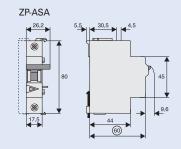
Technical Data

	Z-ASA24	Z-ASA230	ZP-ASA24	ZP-ASA230
Electrical				
Can be mounted onto RCDs, combined RCD/MCBs: Accessories:	CKN, PKDM	CKN, PKDM	PLS, PKN, CLS ZP-A40, Z-MS, Z-TS	PLS, PKN, CLS S ZP-A40, Z-MS, Z-TS
Operational voltage range	12-110V AC 12-60V DC	110-415V AC 110-220V DC	12-110V AC 12-60V DC	110-415V AC 110-220V DC
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Possible standard auxiliary switch	Z-NHK	Z-NHK	ZP-NHK	ZP-NHK
Mechanical				
Frame size	45 mm	45 mm	45 mm	45 mm
Device height	80 mm	80 mm	80 mm	80 mm
Device width	17.5 mm (1MU)	17.5 mm (1MU)	17.5 mm (1MU)	17.5 mm (1MU)
Mounting	quick fastening wit	th 2 lock-in positions	on DIN rail IEC/EN	60715
Degree of protection, built-in	IP40	IP40	IP40	IP40
Terminal protection	finger and hand to	uch safe according	to BGV A3, ÖVE-EN	6
Terminals	open mouthed/lift	open mouthed/lift	open mouthed/lift + guide	open mouthed/lift + guide
Terminal capacity	1-25 mm ²	1-25 mm ²	1-25 mm ²	1-25 mm ²

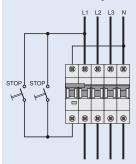
Dimensions (mm)

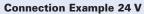


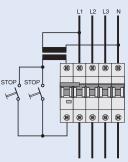




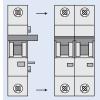
Connection Example 230 V

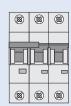




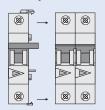


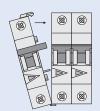
Example: Z-ASA + PLS





Example: ZP-ASA + PLS









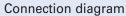
Undervoltage Release Z-USA, Z-USD

• Tripping:

Instantaneous Z-USA

Delayed Z-USD, typ. 0,4 s

- Voltage control indicator blue/white
- Service key for zero voltage switch-on for testing purposes
- Can be used with PLS, CLS, Z-A40 and Z-MS



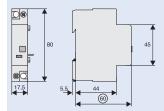




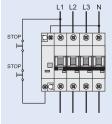
Technical Data

	Z-US./115	Z-US./230	Z-US./400
Electrical			
Rated voltage U _n	115 V AC	230 V AC	400 V AC
Frequency	50-60 Hz	50-60 Hz	50-60 Hz
Making threshold	80% of U _n	80% of U _n	80% of U _n
Tripping threshold	50% of U _n	50% of U _n	50% of U _n
Mechanical			
Frame size	45 mm	45 mm	45 mm
Device height	80 mm	80 mm	80 mm
Device width	17.5 mm (1MU)	17.5 mm (1MU)	17.5 mm (1MU)
Mounting	quick fastening on DI	N rail IEC/EN 60715	
Degree of protection, built-in	IP40	IP40	IP40
Terminals	open mouthed/lift	open mouthed/lift	open mouthed/lift
Terminal capacity	1 - 2x2.5 mm²	1 - 2x2.5 mm ²	1 - 2x2.5 mm ²
Terminal protection	finger and hand touch	n safe, according to BG	GV A3, ÖVE-EN 6

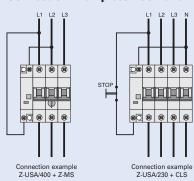
Dimensions (mm)



Connection Example Release



Connection Examplees 400V and 230V





Remote Control and Automatic Switching Z-FW

- Shape compatible switching device suitable for subsequent installation for automatic re-setting and remote control of CLS6, PFIM, PFHM-4p, dRCM, Z-A40, PFR, Z-MS
- Mechanical interlock, can be sealed with leads
- Mechanical switching capability up to max. PFIM-100/4p, CLS6-100/4p
- Operating and alarm display by green and red LED
- Function extension with Switching Modul Z-FW-MO
 Operating and trouble display by LED pre-assembled only with Z-FW...

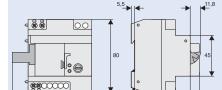
Connection diagrams Z-FW-LP U1/U2 Z-FW-LPD U1/U2 P1 P2 OUT ON C OFF T1 T2

Technical Data

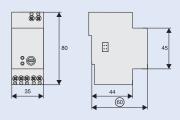
	Z-FW-LP	Z-FW-LPD	Z-FW-MO
Electrical			
Possible operating voltages	220-240 V AC	24-48 V DC	-
Frequency	50/60 Hz	-	-
Testing module (0.5MU) for remote testing of RCDs	Z-FW	Z-FW	-
Control voltage for remote control	_	-	24-230 V AC/DC
Relay output for tripping test with Z-FW	-	-	400 V AC max.
Relay output for alarm, potential-free	5A/250V AC	5A/250V AC	-
Functions	automatic restarting	automatic restarting	+ON/OFF/TEST
Function selector	Automatic 5x, OFF/RESET	Automatic 5x, OFF/RESET	ON, OFF/RESET
Remote control function via telephone with Telecommander	-	-	-
Mechanical			
Frame size	45 mm	45 mm	45 mm
Device height	80 mm	80 mm	80 mm
Device width	70 mm	70 mm	35 mm
Mounting	quick fastening with 2 on DIN rail IEC/EN 60	•	-
Degree of protection, built-in	IP40	IP40	IP40
Terminal protection	finger and hand touc	h safe according to BGV	′ A3, ÖVE-EN 6
Terminals	lift terminals	lift terminals	lift terminals
Terminal capacity	2 x 1.5mm ² or 1 x 2.5mm ²	2 x 1.5mm ² or 1 x 2.5mm ²	4 x 1.5mm ² or 2 x 2.5mm ²
Scope of delivery	_	-	Coupling plug

Dimensions (mm)

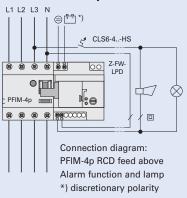
Z-FW-LP, -LPD

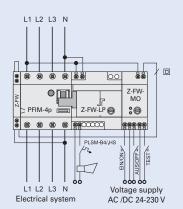




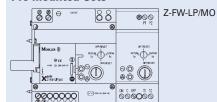


Connection example





Pre-mounted Sets



	⊚ ⊗⊗ P1 P2	Z
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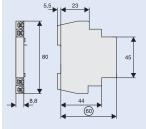




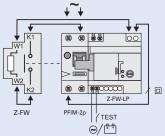
Remote Testing Module Z-FW (for Z-FW-LP)

- External testing module with testing resistor for RCDs
- Proper "external" test key function according to the applicable rules thanks to design adapted to the rated tripping current
- For remote testing with remote control and automatic switching device Z-FW-LP
- No undesired voltage rise in the consumer system during remote switch-off thanks to integrated breaker contact K1-K2
- Can also be used as a remote tripping module for PFIM, PFHM

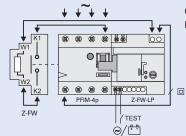
Dimensions (mm)



Connection examples



Connection diagram: PFIM-2p, RCD feed above



Connection diagram: PFIM-4p, RCD feed above

Switching interlocks IS/SPE-1TE, Z-IS/SPE-1TE

• Without lock

Type IS/SPE-1TE:

• for Isolators, RCDs, combined RCD/MCBs, ...

Type Z-IS/SPE-1TE:

• for MCBs and Circuit Breaker ZP-A





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