

Residual Current Devices PFIM

- Residual current devices
- Shape compatible with and suitable for standard busbar connection to other devices of P-series
- Twin-purpose terminal (lift/open-mouthed) above and below
- Busbar positioning optionally above or below
- Free terminal space despite installed busbar
- Universal tripping signal switch, also suitable for PLS, PKN can be mounted subsequently
- Auxiliary switch Z-HK can be mounted subsequently
- Contact position indicator red-green
- The device functions irrespective of the position of installation
- Tripping is line voltage-independent, consequently the RCD is suitable for "fault current/residual current protection" and additional protection within the meaning of applicable installation rules
- Mains connection at either side
- The 4-pole device can be used for 3-pole connection, terminals 1-2, 3-4, 5-6 (+cable link) will be used for this purpose
- The 4-pole device can be used for 2-pole connection, terminals 5-6 and N-N will be used for this purpose
- Type-A: protects against special forms of residual pulsating DC which have not been smoothed
- Type-G: high reliability against unwanted tripping, compulsory for any cirunwanted tripping

- Type G/A: additionally protects against special forms of residual pulsating DC which have not been smoothed
- Special types for X-ray application PFIM-...R
- Type R: to avoid unwanted tripping due to X-ray devices
- Type S: selective residual current device sensitive to AC, type-S
- Type S/A: additionally protects against special forms of residual pulsating DC which have not been smoothed
- Type-U: suitable for speed-control drives with frequency converters in household, trade and industry

Accessories

Auxiliary switch for subsequent installation to the left	Z-HK	248432
Tripping signal contact for subsequent to the right	Z-NHK	248434
Remote control and automatic switching device	Z-FW/LW	248296
Compact enclosure	KLV-TC-2	276240
	KLV-TC-4	276241
Sealing cover set	Z-RC/AK-2TE	285385
	Z-RC/AK-4TE	101062
Switching interlock	IS/SPE-1TE	101911

Electrical

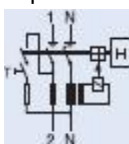
Design according to	IEC/EN 61008	
Current test marks as printed onto the devices	Instantaneous	
Tripping	Type G, R	10ms delay
	Type S	40ms delay with selective disconnecting function
	Type U (only 30mA)	10ms delay
	Type U (without 30mA)	40ms delay with selective disconnecting function
Rated voltage, Un	230/400V, 50Hz	
Rated tripping current, I Δ n	10, 30, 100, 300, 500mA	
Sensitivity	AC and pulsating DC	
Rated insulation voltage, Ui	440V	
Rated impulse voltage, Umip	4kV	
Rated short circuit strength, Inc	10kA	
voltage range of test button, 2-pole	184-250V	
voltage range of test button, 4-pole	184-440V	
Endurance	Mechanical comp.	≥20,000 operating cycles
	Electrical comp.	≥4,000 operating cycles

Mechanical

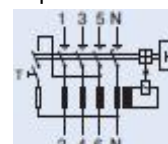
Frame size	45mm
Device height	80mm
Device width	35mm (2MU), 70mm (4MU)
Mounting	Quick fastening with 2 lock-in positions on DIN rail
Degree of protection, built-in	IP40
Upper and lower terminals	Open mouthed/lift terminals
Terminal protection	Finger and hand touch safe
Terminal capacity	1.5-35mm ² , single wire
	2x16mm ² multi wire
Busbar thickness	0.8-2mm
Tripping temperature	-25°C to +40°C

Connection diagrams

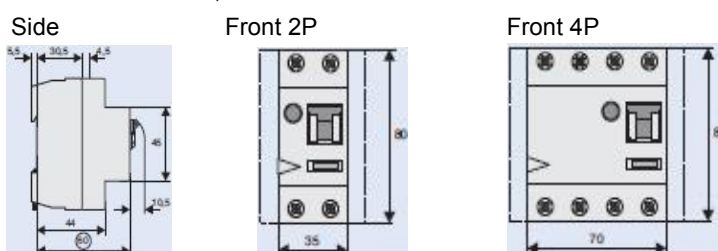
2-pole



4-pole



Device dimensions, mm



Explanation PFIM

P=xPole, FI=RCD, M=10kA

www.teatonelec.com

Residual Current Devices PFIM

- A complete spectrum of compact residual current devices for a wide range of applications
- For fault current/residual current protection and additional protection
- Wide variety of normal currents
- Comprehensive range of accessories
- Real contact position indicator
- Automatic re-setting possible

Residual Current Devices PFIM							MW
Conditionally surge current-proof 250A, type AC							
In/I Δ n, A	Type Designation & Code		Type Designation & Code		Units/Pack		
	2-pole		4-pole		2-pole	4-pole	
16/0.01	PFIM-16/2/001	235389	PFIM-25/4/003	235406	1/60	1/30	
25/0.03	PFIM-25/2/003	235390	PFIM-25/4/01	235407	1/60	1/30	
25/0.10	PFIM-25/2/01	235391	PFIM-25/4/03	235408	1/60	1/30	
25/0.30	PFIM-25/2/03	235392	PFIM-25/4/05	235409	1/60	1/30	
25/0.50	PFIM-25/2/05	235393	PFIM-40/4/003	235410	1/60	1/30	
40/0.03	PFIM-40/2/003	235394	PFIM-40/4/01	235411	1/60	1/30	
40/0.10	PFIM-40/2/01	235395	PFIM-40/4/03	235412	1/60	1/30	
40/0.30	PFIM-40/2/03	235396	PFIM-40/4/05	235413	1/60	1/30	
40/0.50	PFIM-40/2/05	235397	PFIM-63/4/003	235414	1/60	1/30	
63/0.03	PFIM-63/2/003	235398	PFIM-63/4/01	235415	1/60	1/30	
63/0.10	PFIM-63/2/01	235399	PFIM-63/4/03	235416	1/60	1/30	
63/0.30	PFIM-63/2/03	235400	PFIM-63/4/05	235417	1/60	1/30	
63/0.50	PFIM-63/2/05	235401	PFIM-80/4/003	235418	1/60	1/30	
80/0.03	PFIM-80/2/003	235402	PFIM-80/4/01	235419	1/60	1/30	
80/0.10	PFIM-80/2/01	235403	PFIM-80/4/03	235420	1/60	1/30	
80/0.30	PFIM-80/2/03	235404	PFIM-80/4/05	235421	1/60	1/30	
80/0.50	PFIM-80/2/05	235405	PFIM-100/4/003	102823	1/60	1/30	
100/0.03	PFIM-100/2/003	102821	PFIM-100/4/01	102824	1/60	1/30	
100/0.10	PFIM-100/2/01	102874	PFIM-100/4/03	102825	1/60	1/30	
100/0.30	PFIM-100/2/03	102822	PFIM-100/4/05	102826	1/60	1/30	



2P, AC Type



4P, AC Type

Residual Current Devices PFIM

Conditionally surge current-proof 250A, sensitive to residual pulsating DC, type A

MW

In/I Δ n, A	Type Designation & Code		Type Designation & Code		Units/Pack	
	2-Pole				2-pole	4-pole
16/0.01	PFIM-16/2/001-A	235422	-	-	1/60	-
16/0.03	PFIM-16/2/003-A	235423	-	-	1/60	-
25/0.03	PFIM-25/2/003-A	235424	PFIM-25/4/003-A	235435	1/60	1/30
25/0.10	PFIM-25/2/01-A	235425	PFIM-25/4/01-A	235436	1/60	1/30
25/0.30	PFIM-25/2/03-A	235426	PFIM-25/4/03-A	235437	1/60	1/30
25/0.05	-	-	PFIM-25/4/05-A	235438	-	1/30
40/0.03	PFIM-40/2/003-A	235427	PFIM-40/4/003-A	235439	1/60	1/30
40/0.10	PFIM-40/2/01-A	235428	PFIM-40/4/01-A	235440	1/60	1/30
40/0.30	PFIM-40/2/03-A	235429	PFIM-40/4/03-A	235441	1/60	1/30
40/0.50	PFIM-40/2/05-A	235430	PFIM-40/4/05-A	235442	1/60	1/30
63/0.03	PFIM-63/2/003-A	235431	PFIM-63/4/003-A	235443	1/60	1/30
63/0.10	PFIM-63/2/01-A	235432	PFIM-63/4/01-A	235444	1/60	1/30
63/0.30	PFIM-63/2/03-A	235433	PFIM-63/4/03-A	235445	1/60	1/30
63/0.50	PFIM-63/2/05-A	235434	PFIM-63/4/05-A	235446	1/60	1/30
80/0.03	-	-	PFIM-80/4/003-A	235447	-	1/30
80/0.30	-	-	PFIM-80/4/03-A	235448	-	1/30
100/0.03	-	-	PFIM-100/4/003-A	102829	-	1/30
100/0.10	PFIM-100/2/01-A	102827	PFIM-100/4/01-A	102870	-	1/30
100/0.30	PFIM-100/2/03-A	102828	PFIM-100/4/03-A	102871	1/60	1/30
100/0.50	-	-	PFIM-100/4/05-A	102872	-	1/30



2P, A Type



4P, A Type

Explanation PFIM P=xPole, FI=RCD, M=10kA

Residual Current Devices PFIM

Residual Current Devices PFIM							MW
Surge current-proof 3kA, type G							
In/I Δ n, A	Type Designation & Code		Type Designation & Code		Units/Pack		
	2-pole		4-pole		2-pole	4-pole	
25/0.03	PFIM-25/2/003-G	235449	-	-	1/60	-	
25/0.10	PFIM-25/2/01-G	235450	-	-	1/60	-	
40/0.03	PFIM-40/2/003-G	235451	PFIM-40/4/003-G	235453	1/60	1/30	
40/0.10	PFIM-40/2/01-G	235452	PFIM-40/4/01-G	235455	1/60	1/30	
63/0.03	-	-	PFIM-63/4/003-G	235456	-	1/30	
63/0.10	-	-	PFIM-63/4/01-G	235458	-	1/30	
80/0.03	-	-	PFIM-80/4/003-G	104385	-	1/30	
100/0.03	-	-	PFIM-100/4/003-G	104383	-	1/30	
100/0.10	PFIM-100/2/01-G	110100	-	-	1/60	-	
100/0.30	-	-	PFIM-100/4/03-G	104384	-	1/30	
Residual Current Devices PFIM							
Surge current-proof 3kA, sensitive to residual pulsating DC, type G/A							
In/I Δ n, A	Type Designation & Code		Type Designation & Code		Units/Pack		
	2-pole		4-pole		2-pole	4-pole	
40/0.03	PFIM-40/2/003-G/A	108045	PFIM-40/4/003-G/A	235454	1/60	1/30	
40/0.10	PFIM-40/2/01-G/A	109429	-	-	1/60	-	
63/0.03	PFIM-63/2/003-G/A	108046	PFIM-63/4/003-G/A	235457	1/60	1/30	
63/0.10	-	-	PFIM-63/4/01-G/A	109771	-	1/30	
80/0.03	PFIM-80/2/003-G/A	108047	-	-	1/60	-	
100/0.03	PFIM-100/2/003-G/	108048	PFIM-100/4/003-G/	102875	1/60	1/30	
100/0.30	-	-	PFIM-100/4/03-G/A	102873	-	1/30	
Residual Current Devices PFIM							
Surge current-proof 3kA, X-ray application, type R							
In/I Δ n, A	Type Designation & Code		Type Designation & Code		Units/Pack		
	2-pole		4-pole		2-pole	4-pole	
63/0.03	-	-	PFIM-63/4/003-R	235459	-	1/30	
100/0.03	-	-	PFIM-100/4/003-R	102876	-	1/30	
Residual Current Devices PFIM							
Selective + surge current-proof 5kA, type S							
In/I Δ n, A	Type Designation & Code		Type Designation & Code		Units/Pack		
	2-pole		4-pole		2-pole	4-pole	
25/0.30	-	-	PFIM-25/4/03-S	235463	-	1/30	
40/0.10	PFIM-40/2/01-S	235460	-	-	1/60	-	
40/0.30	PFIM-40/2/03-S	235461	-	-	1/60	-	
80/0.10	-	-	PFIM-80/4/01-S	235473	-	1/30	
Residual Current Devices PFIM							
Selective + surge current-proof 5kA, sensitive to residual pulsating DC, type S/A							
In/I Δ n, A	Type Designation & Code		Type Designation & Code		Units/Pack		
	2-pole		4-pole		2-pole	4-pole	
25/0.10	-	-	PFIM-25/4/01-S/A	235464	-	1/30	
40/0.10	PFIM-40/2/01-S/A	109770	PFIM-40/4/01-S/A	235467	1/60	1/30	
40/0.30	-	-	PFIM-40/4/03-S/A	235468	-	1/30	
63/0.10	-	-	PFIM-63/4/01-S/A	235471	-	1/30	
63/0.30	-	-	PFIM-63/4/03-S/A	235472	-	1/30	
80/0.30	-	-	PFIM-80/4/03-S/A	235475	-	1/30	
100/0.30	-	-	PFIM-100/4/03-S/A	290220	-	1/30	



2P, G Type



4P, G/A Type



2P, S Type



4P, S/A Type

Residual Current Devices PFIM-U

- Special residual current devices for frequency converter applications;
- For fault current/residual current protection and additional protection;
- Comprehensive range of accessories;
- Real contact position indicator;
- Selective or short-time delayed;

Residual Current Devices PFIM-U



4P, U Type

Residual Current Devices PFIM-U

Selective + surge current-proof 5kA, frequency converter-proof, type U

In/I Δ n, A	Type Designation & Code		Units/Pack	
	2-pole	4-pole	2-pole	4-pole
40/0.10	-	PFIM-40/4/01-U	235744	1/30
40/0.30	-	PFIM-40/4/03-U	235745	1/30
63/0.10	-	PFIM-63/4/01-U	235746	1/30
63/0.30	-	PFIM-63/4/03-U	235747	1/30
80/0.30	-	PFIM-80/4/03-U	290221	1/30
100/0.30	-	PFIM-100/4/03-U	290222	1/30

Residual Current Devices PFIM-X

- Special residual current devices back up protection with nominal value possible, overload protection;
- For fault current/residual current protection and additional protection;
- Comprehensive range of accessories;
- Real contact position indicator;
- Automatic re-setting possible;



4P, X Type

Residual Current Devices PFIM-X

Conditionally surge current-proof 250A, type AC & A

In/I Δ n, A	Type Designation & Code		Units/Pack	
	2-pole	4-pole	2-pole	4-pole
40/0.03	PFIM-40/2/003-X	110089	PFIM-40/4/003-X	235737
40/0.10	-	-	PFIM-40/4/01-X	235738
63/0.03	-	-	PFIM-63/4/003-X	274293
63/0.10	-	-	PFIM-63/4/01-X	274296
40/0.03	-	-	PFIM-40/4/003-XA	235739
63/0.03	-	-	PFIM-63/4/003-XA	294163
63/0.10	-	-	PFIM-63/4/01-XA	293304
63/0.30	-	-	PFIM-63/4/03-XA	293305

Residual Current Devices PFIM-X

Surge current-proof 3kA, type G & type G/A

In/I Δ n, A	Type Designation & Code		Units/Pack	
	2-pole	4-pole	2-pole	4-pole
40/0.03	-	PFIM-40/4/003-XG	235742	1/30
40/0.10	-	PFIM-40/4/01-XG	274292	1/30
63/0.10	-	PFIM-63/4/01-XG	293306	1/30
40/0.03	-	PFIM-40/4/003-XG/A	235743	1/30
63/0.03	-	PFIM-63/4/003-XG/A	103016	1/30

4P, XG Type



4P, XS/A Type

Residual Current Devices PFIM-X

Selective + surge current-proof 5kA, sensitive to residual pulsating DC, type S/A

In/I Δ n, A	Type Designation & Code		Units/Pack	
	2-pole	4-pole	2-pole	4-pole
40/0.10	-	PFIM-40/4/01-XS/A	235740	1/30
40/0.30	-	PFIM-40/4/03-XS/A	235741	1/30
63/0.10	-	PFIM-63/4/01-XS/A	274294	1/30
63/0.30	-	PFIM-63/4/003-XS/A	274295	1/30

Residual Current Devices PF7

- A complete spectrum of compact residual current devices up to 100A;
- Rated short circuit strength 10kA;
- Especially for protection against accidents caused by current and property protection;
- Wide variety of types, G, S, A, G/A, S/A, R and U etc;
- Accessories suitable for subsequent installation;
- Frost resistance;