# Residual Current Devices PFIM MW

- 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 nominal currents
- Comprehensive range of accessories
- Real contact position indicator
- Automatic re-setting possible





<b>Residual Currer</b>	nt Devices PFIM		MW
Conditionally sur	ge current-proof 250 A, ty	rpe AC 🖂	
$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
2-pole			
16/0.01	PFIM-16/2/001	235389	1 / 60
25/0.03	PFIM-25/2/003	235390	1 / 60
	PFIM-25/2/01	235391	1 / 60
			1 / 60
			1 / 60
			1 / 60
			1 / 60
			1 / 60
			1 / 60 1 / 60
			1 / 60
			1 / 60
			1 / 60
			1 / 60
			1 / 60
			1 / 60
			1 / 60
100/0.03	PFIM-100/2/003	102821	1 / 60
100/0.10	PFIM-100/2/01	102874	1 / 60
100/0.30	PFIM-100/2/03	102822	1 / 60
4-pole			
	PEIM-25/4/003	235406	1 / 30
			1 / 30
			1 / 30
			1 / 30
			1 / 30
			1 / 30
40/0.30	PFIM-40/4/03	235412	1 / 30
40/0.50	PFIM-40/4/05	235413	1 / 30
63/0.03	PFIM-63/4/003	235414	1 / 30
63/0.10	PFIM-63/4/01	235415	1 / 30
63/0.30	PFIM-63/4/03	235416	1 / 30
63/0.50	PFIM-63/4/05	235417	1 / 30
80/0.03	PFIM-80/4/003	235418	1 / 30
80/0.10	PFIM-80/4/01	235419	1 / 30
80/0.30	PFIM-80/4/03	235420	1 / 30
			1 / 30
			1 / 30
			1 / 30
			1 / 30 1 / 30
100/0.50	FFIIVI-100/4/05	102020	1 / 30
<b>Residual Curren</b>	nt Devices PFIM		MW
Conditionally surge of	current-proof 250 A, sensitive to	o residual pulsa	ting DC, type A
$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
2-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	1 / 60
25/0.10	PFIM-25/2/01-A	235425	1 / 60
25/0.30	PFIM-25/2/03-A	235426	1 / 60
40/0.03	PFIM-40/2/003-A	235427	1 / 60
40/0.10	PFIM-40/2/01-A	235428	1 / 60
40/0.30	PFIM-40/2/03-A	235429	1 / 60
40/0.50	PFIM-40/2/05-A	235430	1 / 60
	PFIM-63/2/003-A	235431	1 / 60
63/0.03			
63/0.03 63/0.10	PFIM-63/2/01-A	235432	1 / 60
	PFIM-63/2/01-A PFIM-63/2/03-A	235432 235433	1 / 60 1 / 60
63/0.10			
63/0.10 63/0.30	PFIM-63/2/03-A	235433	1 / 60
63/0.10 63/0.30 63/0.50	PFIM-63/2/03-A PFIM-63/2/05-A	235433 235434	1 / 60 1 / 60
	2-pole 16/0.01 25/0.03 25/0.10 25/0.30 25/0.50 40/0.03 40/0.10 40/0.30 40/0.50 63/0.30 63/0.50 80/0.03 80/0.10 80/0.30 80/0.50 100/0.03 100/0.10 100/0.30 4-pole 25/0.03 25/0.10 25/0.30 25/0.50 40/0.03 40/0.10 40/0.30 40/0.50 63/0.30 63/0.50 80/0.03 80/0.10 80/0.30 80/0.50 100/0.03 100/0.10 100/0.30 40/0.50 63/0.30 63/0.50 80/0.03 80/0.50 80/0.03 80/0.50 100/0.03 100/0.10 100/0.30 100/0.50  Residual Currer Conditionally surge of	2-pole 16/0.01 PFIM-16/2/001 25/0.03 PFIM-25/2/03 25/0.10 PFIM-25/2/01 25/0.30 PFIM-25/2/03 25/0.50 PFIM-25/2/03 25/0.50 PFIM-25/2/03 40/0.03 PFIM-40/2/003 40/0.10 PFIM-40/2/03 40/0.50 PFIM-40/2/03 63/0.03 PFIM-63/2/03 63/0.10 PFIM-63/2/03 63/0.50 PFIM-80/2/05 80/0.03 PFIM-80/2/05 80/0.03 PFIM-80/2/05 80/0.03 PFIM-80/2/01 80/0.30 PFIM-80/2/05 80/0.03 PFIM-80/2/05 80/0.03 PFIM-80/2/05 100/0.03 PFIM-80/2/05 100/0.03 PFIM-80/2/05 100/0.03 PFIM-80/2/05 100/0.03 PFIM-100/2/05 100/0.03 PFIM-100/2/03 4-pole 25/0.03 PFIM-25/4/03 25/0.10 PFIM-25/4/05 4-pole 25/0.03 PFIM-25/4/05 4-pole 25/0.03 PFIM-25/4/05 40/0.03 PFIM-40/4/05 63/0.03 PFIM-40/4/05 63/0.03 PFIM-40/4/05 63/0.03 PFIM-80/4/03 40/0.50 PFIM-83/4/05 63/0.03 PFIM-80/4/01 63/0.30 PFIM-83/4/03 63/0.03 PFIM-80/4/01 63/0.30 PFIM-80/4/03 40/0.50 PFIM-80/4/01 80/0.30 PFIM-80/4/03 40/0.50 PFIM-80/4/05 63/0.03 PFIM-80/4/05	2-pole 16/0.01 PFIM-16/2/001 235389 25/0.03 PFIM-25/2/003 235390 25/0.10 PFIM-25/2/03 235391 25/0.30 PFIM-25/2/03 235393 25/0.50 PFIM-25/2/05 235393 40/0.03 PFIM-40/2/01 235394 40/0.03 PFIM-40/2/01 235394 40/0.30 PFIM-40/2/01 235395 40/0.30 PFIM-40/2/01 235395 40/0.50 PFIM-40/2/01 235395 63/0.03 PFIM-40/2/05 235397 63/0.03 PFIM-63/2/003 235398 63/0.10 PFIM-63/2/01 235399 63/0.03 PFIM-63/2/01 235399 63/0.03 PFIM-63/2/01 235399 63/0.03 PFIM-63/2/01 235399 63/0.03 PFIM-63/2/03 235400 80/0.03 PFIM-80/2/05 235401 80/0.03 PFIM-80/2/03 235402 80/0.00 PFIM-80/2/05 235401 80/0.00 PFIM-80/2/01 235403 80/0.10 PFIM-80/2/01 235403 80/0.00 PFIM-80/2/01 235403 80/0.00 PFIM-80/2/05 235405 100/0.03 PFIM-80/2/05 235405 100/0.03 PFIM-100/2/03 102821 100/0.03 PFIM-100/2/03 102821 100/0.30 PFIM-100/2/03 102822  4-pole 25/0.03 PFIM-25/4/003 235406 25/0.01 PFIM-25/4/003 235406 25/0.03 PFIM-25/4/003 235406 63/0.03 PFIM-25/4/003 235406 63/0.03 PFIM-25/4/003 235406 63/0.03 PFIM-25/4/003 235406 63/0.03 PFIM-25/4/003 235408 9FIM-25/4/03 235409 40/0.10 PFIM-40/4/03 235411 40/0.30 PFIM-40/4/03 235411 63/0.30 PFIM-40/4/03 235411 63/0.03 PFIM-63/4/03 235418 80/0.10 PFIM-63/4/03 235418 80/0.10 PFIM-63/4/03 235416 63/0.30 PFIM-63/4/03 235416 63/0.30 PFIM-63/4/03 235416 63/0.03 PFIM-63/4/03 235416 63/0.03 PFIM-63/4/03 235416 63/0.03 PFIM-80/4/03 235416 63/0.03 PFIM-80/4/03 235416 63/0.03 PFIM-80/4/03 235417 80/0.03 PFIM-80/4/03 235416 63/0.03 PFIM-80/4/03 235416 63/0.03 PFIM-80/4/03 235416 63/0.03 PFIM-80/4/03 235416 63/0.03 PFIM-80/4/03 235417 80/0.03 PFIM-80/4/03 235418 80/0.10 PFIM-80/4/03 235418 80/0.10 PFIM-80/4/03 235416 63/0.30 PFIM-80/4/03 235420 80/0.30 PFIM-80/4/03 235423 80/0.30 PFIM-80/4/03 235423 80/0.3





$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
4-pole			
25/0.03	PFIM-25/4/003-A	235435	1 / 30
25/0.10	PFIM-25/4/01-A	235436	1 / 30
25/0.30	PFIM-25/4/03-A	235437	1 / 30
25/0.50	PFIM-25/4/05-A	235438	1 / 30
40/0.03	PFIM-40/4/003-A	235439	1 / 30
40/0.10	PFIM-40/4/01-A	235440	1 / 30
40/0.30	PFIM-40/4/03-A	235441	1 / 30
40/0.50	PFIM-40/4/05-A	235442	1 / 30
63/0.03	PFIM-63/4/003-A	235443	1 / 30
63/0.10	PFIM-63/4/01-A	235444	1 / 30
63/0.30	PFIM-63/4/03-A	235445	1 / 30
63/0.50	PFIM-63/4/05-A	235446	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-100/4/01-A	102870	1 / 30
100/0.30	PFIM-100/4/03-A	102871	1 / 30
100/0.50	PFIM-100/4/05-A	102872	1 / 30

### **Residual Current Devices PFIM**

MW

Surge current-proof 3 kA, type G (ÖVE E 8601)



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$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package	
2-pole				Ī
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	1 / 60	
40/0.10	PFIM-40/2/01-G	235452	1 / 60	
100/0.10	PFIM-100/2/01-G	110100	1 / 60	
4-pole				
40/0.03	PFIM-40/4/003-G	235453	1 / 30	
40/0.10	PFIM-40/4/01-G	235455	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	

104384

1 / 30

### **Residual Current Devices PFIM**

100/0.3

Surge current-proof 3 kA, sensitive to residual pulsating DC, type G/A (ÖVE E 8601)

PFIM-100/4/03-G







$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
2-pole			
40/0.03	PFIM-40/2/003-G/A	108045	1 / 60
40/0.1	PFIM-40/2/01-G/A	109429	1 / 60
63/0.03	PFIM-63/2/003-G/A	108046	1 / 60
80/0.03	PFIM-80/2/003-G/A	108047	1 / 60
100/0.03	PFIM-100/2/003-G/A	108048	1 / 60
4 1			
4-pole			
40/0.03	PFIM-40/4/003-G/A	235454	1 / 30
63/0.03	PFIM-63/4/003-G/A	235457	1 / 30
63/0.1	PFIM-63/4/01-G/A	109771	1 / 30
100/0.03	PFIM-100/4/003-G/A	102875	1 / 30
100/0.3	PFIM-100/4/03-G/A	102873	1 / 30



		ent Devices PFIM		MW
	Surge current-pr	roof 3 kA, X-ray application	, type R 🔯	
	$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
	4-pole			
EAT-N	63/0.03 100/0.03	PFIM-63/4/003-R PFIM-100/4/003-R	235459 102876	1/30 1/30
		ent Devices PFIM		MW
	Selective + surg	e current-proof 5 kA, type S	· 🔼	
	$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
SG16611	<b>2-pole</b> 40/0.10 40/0.30	PFIM-40/2/01-S PFIM-40/2/03-S	235460 235461	1 / 60 1 / 60
N N	4-pole			
EA-N	25/0.30 80/0.10	PFIM-25/4/03-S PFIM-80/4/01-S	235463 235473	1 / 30 1 / 30
	Residual Curre	ent Devices PFIM		MW
	Selective + surge c	urrent-proof 5 kA, sensitive to re	esidual pulsatir	ng DC, type S/A 🔯
	$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
SG18611	<b>2-pole</b> 40/0.10	PFIM-40/2/01-S/A	109770	1 / 60
700 de 100 A				
SG17211	4-pole			
Ext-N	25/0.10 40/0.10 40/0.30 63/0.10 63/0.30 80/0.30 100/0.30	PFIM-25/4/01-S/A PFIM-40/4/01-S/A PFIM-40/4/03-S/A PFIM-63/4/01-S/A PFIM-63/4/03-S/A PFIM-80/4/03-S/A PFIM-100/4/03-S/A	235464 235467 235468 235471 235472 235475 290220	1/30 1/30 1/30 1/30 1/30 1/30 1/30



Sealing Cover • for PFIM, PFR, PFR	Set Z-RC/AK 6, PF7, CFI6, dRCM (not to use for	r PFDM)	
	Type Designation	Article No.	Units per package
2-pole 4-pole	Z-RC/AK-2TE Z-RC/AK-4TE	285385 101062	10 / 30 10 / 600



# 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





		ent Devices PFIM-U e current-proof 5 kA, freque	ncy converter	-proof, type U
	$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
SG62111	<b>4-pole</b> 40/0.10 40/0.30 63/0.10 63/0.30 80/0.30 100/0.30	PFIM-40/4/01-U PFIM-40/4/03-U PFIM-63/4/01-U PFIM-63/4/03-U PFIM-80/4/03-U PFIM-100/4/03-U	235744 235745 235746 235747 290221 290222	1 / 30 1 / 30 1 / 30 1 / 30 1 / 30 1 / 30
		ent Devices PFIM-U I + surge current-proof 3 kA, fre	equency conver	er-proof, type U 🔯
	$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package

G62111



$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
4-pole			
63/0.03	PFIM-63/4/003-U	285465	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
- Special U-types available





		t Devices PFIM-X		
	Conditionally surg	e current-proof 250 A, typ	oe AC 🖂, t	type A 🔯
	$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
SG16611	<b>2-pole</b> 40/0.03	PFIM-40/2/003-X	110089	1 / 60
SGE2011  FAT-N  FAT-N  THE STATE OF THE STAT	4-pole 40/0.03	PFIM-40/4/003-X PFIM-40/4/01-X PFIM-63/4/003-X PFIM-63/4/01-X PFIM-63/4/003-XA PFIM-63/4/003-XA PFIM-63/4/03-XA	235737 235738 274293 274296 235739 294163 293304 293305	1/30 1/30 1/30 1/30 1/30 1/30 1/30 1/30
		<b>t Devices PFIM-X</b> of 3 kA, type G (ÖVE E 86	01), type G 🛭	◯, type G/A 🏡
	$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
SGG2211  FAT-N	4-pole 40/0.03	PFIM-40/4/003-XG PFIM-40/4/01-XG PFIM-63/4/01-XG PFIM-40/4/003-XG/A PFIM-63/4/003-XG/A	235742 274292 293306 235743 103016	1/30 1/30 1/30 1/30 1/30
	Residual Curren	t Devices PFIM-X		
	Selective + surge cur	rent-proof 5 kA, sensitive to re	sidual pulsatii	ng DC, type S/A
	$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
EA-N	4-pole 40/0.10	PFIM-40/4/01-XS/A PFIM-40/4/03-XS/A PFIM-63/4/01-XS/A PFIM-63/4/03-XS/A	235740 235741 274294 274295	1/30 1/30 1/30 1/30



### **Residual Current Devices PFIM-X**

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







	Type Designation	Article No.	Units per package
$\overline{\sim}$	PFIM-40/4/01-XU	235748	1 / 30
	PFIM-40/4/03-XU	235749	1 / 30
		PFIM-40/4/01-XU	PFIM-40/4/01-XU 235748



### Residual Current Devices PF7

- A complete spectrum of compact residual current devices up to 100 A
- Rated short circuit strength 10 kA
- Especially for protection against accidents caused by current and property protection
- Wide variety of types (G, S, A, G/A, S/A, R, U, ...)
- Special type U for frequency converter applications with high surge current proof
- Accsessories suitable for subsequent installation
- Frost resistance 25





		nt Devices PF7		
	Conditionally su	rge current-proof 250 A, t	ype AC 🔼	
	$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
411	2-pole			
***	25/0.03	PF7-25/2/003	263577	1/60
0 ° 6	25/0.10	PF7-25/2/01	263578	1/60
MESC	40/0.03	PF7-40/2/003	263579	1/60
Ect-N	40/0.10	PF7-40/2/01	263580	1/60
	63/0.03	PF7-63/2/003	263581	1/60
	63/0.10	PF7-63/2/01	263582	1/60
	63/0.30	PF7-63/2/03	263583	1/60
SE DOME	100/0.03	PF7-100/2/003	166797	1/60
	100/0.10	PF7-100/2/01	166799	1/60
	100/0.30	PF7-100/2/03	166822	1/60
1	4-pole			
	25/0.03	PF7-25/4/003	263584	1/30
0 0 0 0 0	25/0.10	PF7-25/4/01	263585	1/30
****	40/0.03	PF7-40/4/003	263586	1/30
	40/0.10	PF7-40/4/01	263587	1/30
	40/0.30	PF7-40/4/03	263588	1/30
	40/0.50	PF7-40/4/05	263589	1/30
FIF ** 0   1   1   1   1   1   1   1   1   1	63/0.03	PF7-63/4/003	263590	1/30
O. O. O. O.	63/0.10	PF7-63/4/01	263591	1/30
	63/0.30	PF7-63/4/03	263592	1/30
	63/0.50	PF7-63/4/05	263593	1/30
	80/0.03	PF7-80/4/003	263594	1/30
	80/0.10	PF7-80/4/01	263595	1/30
	80/0.30	PF7-80/4/03	263596	1/30
	80/0.50	PF7-80/4/05	263597	1/30
	100/0.03	PF7-100/4/003	102925	1/30
	100/0.10	PF7-100/4/01	102926	1/30
	100/0.30	PF7-100/4/03	102927	1/30
	100/0.50	PF7-100/4/05	102928	1/30
		ent Devices PF7 current-proof 250 A, sensitive	to residual pulsa	ting DC type A
		Type Designation	Article No.	Units per package
	- I <sub>n</sub> /I <sub>Δn</sub> (A) <b>2-pole</b>	Type Designation	Article No.	Offits per package
1		DET 40/0/004 A	000500	4/00
0.6	16/0.01	PF7-16/2/001-A	263598	1/60
WALC	25/0.03	PF7-25/2/003-A	263599	1/60
Fct-n	25/0.10	PF7-25/2/01-A	263600	1/60
	25/0.30	PF7-25/2/03-A	263601	1/60
	40/0.03	PF7-40/2/003-A	263602	1/60
2	40/0.10	PF7-40/2/01-A PF7-40/2/03-A	263603 263604	1/60
NSA STANSON	40/0.30			1/60
	63/0.03	PF7-63/2/003-A	263605	1/60
	63/0.10	PF7-63/2/01-A	263606	1/60
	63/0.30	PF7-63/2/03-A	263607	1/60
	100/0.10	PF7-100/2/01-A	166820	1/60
	100/0.30	PF7-100/2/03-A	166823	1/60





$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
4-pole			
25/0.03	PF7-25/4/003-A	263608	1/30
25/0.10	PF7-25/4/01-A	263609	1/30
25/0.30	PF7-25/4/03-A	263610	1/30
40/0.03	PF7-40/4/003-A	263611	1/30
40/0.10	PF7-40/4/01-A	263612	1/30
40/0.30	PF7-40/4/03-A	263613	1/30
63/0.03	PF7-63/4/003-A	263614	1/30
63/0.10	PF7-63/4/01-A	263615	1/30
63/0.30	PF7-63/4/03-A	263616	1/30
80/0.03	PF7-80/4/003-A	263617	1/30
80/0.30	PF7-80/4/03-A	263618	1/30
100/0.03	PF7-100/4/003-A	102929	1/30
100/0.10	PF7-100/4/01-A	102930	1/30
100/0.30	PF7-100/4/03-A	102931	1/30
100/0.50	PF7-100/4/05-A	102932	1/30
100/0.30	FT 7-100/4/05-A	102332	1/30

### **Residual Current Devices PF7**

Surge current-proof 3 kA, type G (ÖVE E 8601), type G \sum\_, type G/A \sum\_



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$I_n/I_{\Delta n}$ (A)		Type Designation	Article No.	Units per package
2	2-pole			
2	25/0.03	PF7-25/2/003-G	263619	1/60
2	25/0.10	PF7-25/2/01-G	263620	1/60
4	10/0.03	PF7-40/2/003-G	263621	1/60
4	10/0.10	PF7-40/2/01-G	263622	1/60
4	l0/0.03 <del>\</del>	PF7-40/2/003-G/A	166826	1/60
6	33/0.03	PF7-63/2/003-G/A	166827	1/60
8	80/0.03 📉	PF7-80/2/003-G/A	166828	1/60
1	00/0.03 📉	PF7-100/2/003-G/A	166798	1/60
-				
4	l-pole			
4	10/0.03 🔼	PF7-40/4/003-G	263623	1/30
4	l0/0.10 <del></del>	PF7-40/4/01-G	263624	1/30
6	3/0.03 🔼	PF7-63/4/003-G	263625	1/30
6	3/0.10 🔯	PF7-63/4/01-G	263627	1/30
8	80/0.03 📉	PF7-80/4/003-G/A	166824	1/30
1	00/0.03 📉	PF7-100/4/003-G/A	166829	1/30
1	00/0.3 📉	PF7-100/4/03-G/A	166825	1/30

### **Residual Current Devices PF7**

Surge current-proof 3 kA, X-ray application, type R





$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
4-pole			
63/0.03	PF7-63/4/003-R	263628	1/30
100/0.03	PF7-100/4/003-R	102935	1/30



		Residual Current Devices PF7 Selective + surge current-proof 5 kA, type S			
	$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package	
G07411	2-pole				
G07411	40/0.10	PF7-40/2/01-S	263629	1/60	
# (1-10) # (	40/0.30	PF7-40/2/03-S	263630	1/60	
20004	4-pole				
F.TN	80/0.10	PF7-80/4/01-S	263636	1/30	

### **Residual Current Devices PF7**

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



SG08211

$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
4-pole			
25/0.10	PF7-25/4/01-S/A	263631	1/30
40/0.10	PF7-40/4/01-S/A	263632	1/30
40/0.30	PF7-40/4/03-S/A	263633	1/30
63/0.10	PF7-63/4/01-S/A	263634	1/30
63/0.30	PF7-63/4/03-S/A	263635	1/30
80/0.30	PF7-80/4/03-S/A	263637	1/30
100/0.30	PF7-100/4/03-S/A	292494	1/30



# Residual Current Devices PF7-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
- Frost resistance (-25)



### **Residual Current Devices PF7-U**

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





$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
4-pole			
40/0.10	PF7-40/4/01-U	263638	1/30
40/0.30	PF7-40/4/03-U	263639	1/30
63/0.10	PF7-63/4/01-U	263640	1/30
63/0.30	PF7-63/4/03-U	263641	1/30
80/0.30	PF7-80/4/03-U	292495	1/30
100/0.30	PF7-100/4/03-U	292496	1/30



Sealing Cover • for PFIM, PFR, PF6	<b>Set Z-RC/AK</b> 6, PF7, CFI6, dRCM (not to use for	· PFDM)		
	Type Designation	Article No.	Units per package	
2-pole 4-pole	Z-RC/AK-2TE Z-RC/AK-4TE	285385 101062	10 / 30 10 / 600	

# Residual Current Devices PF6

- Economy series of RCD
- Rated short circuit strength 6 kA
- For fault current/residual current protection and additional protection
- Accessories suitable for subsequent installation
- Frost resistance (-25)





		ent Devices PF6		
	Conditionally su	urge current-proof 250 A, t	ype AC 🖂	
	$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
411	2-pole			
CHO	25/0.03	PF6-25/2/003	286492	1/60
and and	40/0.03 40/0.30	PF6-40/2/003 PF6-40/2/03	286496 286498	1/60 1/60
EX-M	40/0.50	110 40/2/03	200400	1766
911	4-pole			
	25/0.03	PF6-25/4/003	286504	1/30
1772 B. O. O.	40/0.03	PF6-40/4/003	286508	1/30
-N	40/0.30 63/0.03	PF6-40/4/03 PF6-63/4/003	286510 286512	1/30 1/30
	63/0.30	PF6-63/4/03	286514	1/30
Filtres				
	Sealing Cover • for PFIM, PFR (no	Set Z-RC/AK t to use for PFDM)		
011		Type Designation	Article No.	Units per package
ni .	2-pole	Z-RC/AK-2TE	285385	10 / 30
AVA	4-pole	Z-RC/AK-4TE	101062	10 / 600

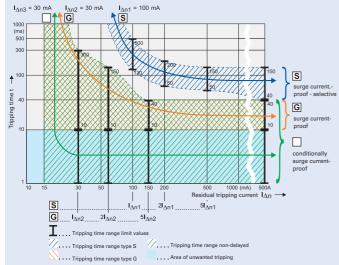
Technical Data

Residual Current Devi	ices - General Data
Short description of the	most important RCD types:
Symbol	Description
** <u>-25</u>	Eaton/Moeller standard. Suitable for outdoor installation (distribution boxes for outdoor installation and building sites) up to -25° C.
	Conditionally surge-current proof (>250 A, 8/20 µs) for general application.
	RCD sensitive to pulsating DC for application where residual pulsating DC may occur. Non-selective, instantaneous. Protects only against special forms of residual pulsating DC which have not been smoothed.
	Type B: All-current sensitive RCD switchgear for applications where DC fault currents may occur. Non-selective, non-delayed. Protection against all kinds of fault currents.
kHz	Type B+: All-current sensitive RCD switchgear for applications where DC fault currents may occur. Non-selective, non-delayed. Protection against all kinds of fault currents. Also meets the requirements of the VDE 0664-400 standard (formerly known as VDE V 0664-110) and therefore provides enhanced fire safety.
OVE E 8601	RCD of type G (min 10 ms time delay) surge current-proof up to 3 kA. For system components where protection against unwanted tripping is compulsory to avoid personal injury and damage to property (§ 12.1.6 of ÖVE/ÖNORM E 8001-1). Also for systems involving long lines and high line capacity. Some versions are sensitive to pulsating DC. Some versions are available in all-current sensitive design.
S	RCD of type S (selective, min 40 ms time delay) surge current-proof up to 5 kA. Mainly used as main switch according to ÖVE/ÖNORM E 8001-1 § 12.1.5, as well as in combination with surge arresters. This is the only RCD suitable for series connection with other types if the rated tripping current of the downstream RCD does not exceed one third of the rated tripping current of the device of type S. Some versions are sensitive to pulsating DC. Some versions are available in all-current sensitive design.
"röntgenfest"	"X-ray-proof", for avoiding unwanted tripping caused by x-ray devices.
"umrichterfest"	"Frequency converter-proof", for avoiding unwanted tripping caused by frequency converters, speed-controlled drives, etc.
max. 63A gG/gL ————————————————————————————————————	Integrated overload protection. Calculating and rating of the back-up temperature fuse to avoid overload on the RCD is not required. Overload fuse = short circuit back-up fuse.  P.
SERVICE PRÜFKNOP we deducted an ever BETÄTIGF	Press service key when putting the device into operation, and subsequently approximately once per year. Pressing the key once per month is not required any more and can be omitted unless shorter testing intervals are required under any applicable regulations (e.g. on building sites).



#### Tripping Characteristics (IEC/EN 61008)

Tripping characteristics, tripping time range and selectivity of instantaneous, surge current-proof "G" and surge current-proof - selective "S" residual current devices.



# § 6.1.1 of ÖVE/ÖNORM E 8001-1/A1 deals with additional protection and provides essentially the following:

In circuits with **sockets up to 16 A** with fault current/residual current protection by protective earthing, protective multiple earthing or residual current devices (RCDs), additional residual current protection devices with a rated tripping current of **0.03 A** must be installed. **This means when using RCDs for fault current/residual current protection two RCDs must be connected in series.** 

#### **Testing:**

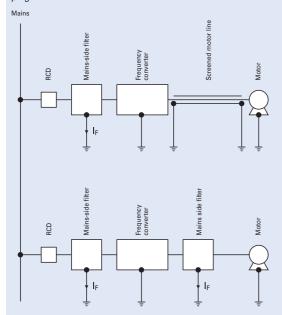
RCDs with tripping time delay (Types -G and -S) may be function tested with conventional testing equipment which must be set according to the instructions for operation of the testing device. Due to reasons inherent in the measuring process, the tripping time determined in this way may be longer than expected in accordance with the specifications of the manufacturer of the measuring instrument.

However, the device is ok if the result of measurement is within the time range specified by the manufacturer of the measuring instrument



#### Hints for the application of our frequency converter-proof RCDs:

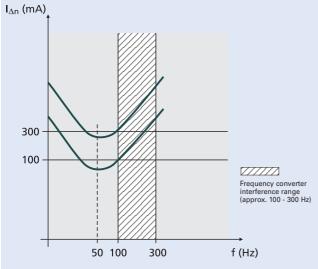
Due to the currents flowing off through the filters (designated IF), the sum of currents through the RCD is not exactly zero, which causes unwanted tripping.



Frequency converters are used in a wide variety of systems and equipment requiring variable speed, such as lifts, escalators, conveyor belts, and large washing machines. Using them for such purposes in circuits with conventional residual current devices causes frequent problems with unwanted tripping.

The technical root cause of this phenomenon is the following: Fast switching operations involving high voltages cause high interference levels which propagate through the lines on the one hand, and in the form of interfering radiation on the other. In order to eliminate this problem, a mains-side filter (also referred to as input filter or EMC-filter) is connected between the RCD and frequency converter. The anti-interference capacitors in the filters produce discharge currents against earth which may cause unwanted tripping of the RCD due to the apparent residual currents. Connecting a filter on the output side between frequency converter and 3-phase AC motor results in the same behaviour.

Tripping characteristic



This sample tripping characteristic of a 100 mA RCD and a 300 mA RCD shows the following: In the frequency range around 50 Hz, the RCDs trip as required (50 - 100 % of the indicated  $I_{An}$ ).

In the range shown hatched in the diagram, i. e. from approx. 100 to 300 Hz, unwanted tripping occurs frequently due to the use of frequency converters. Frequency converter-proof residual current devices are much less sensitive in this frequency range than in the 50 - 60 Hz range, which leads to an enormous increase in the reliability of systems.

### Therefore, we recommend to use frequency converter-proof RCDs!

These special residual current devices can be recognised by an extension of the type designation ("-U"). They meet the requirements of compatibility between RCDs and frequency converters with respect to unwanted tripping.

These are NOT AC/DC-sensitive RCDs of type B !!!

Our RCDs of type "-U" are characterised by SENSITIVITY TO RESIDUAL PULSATING DC and SELECTIVITY or SHORT-TIME DELAY G.

#### **Protective Measures**

The following rules for the application of RCDs of type" -U" are only applicable in those cases where an RCD of type "-B" is not explicitly demanded in the instructions of the manufacturer of the frequency converter.

How can you make sure that the required protective measures are in place when using RCDs type "-U" and frequency converters in one system?

In Austria, the ÖVE Decision EN 219 is applicable.

120 V DC which must not be exceeded).

In Germany, VDE 0100 is applicable, in Switzerland SEV 1000.

Under this standard

 frequency converters must be equipped with current limiting devices in order to ensure disconnection in cause of faults or overload, and

 the installer of a system is obliged to make sure that additional equipotential bonding is provided (additional inclusion of all metal components, such as frequency converters, mains filters, motor filters, etc. into the existing equipotential bonding), in order to ensure that the permissible touch voltage of 50 V AC or 120 V DC is not exceeded. (In ÖVE/ÖNORM E 8001-1 the term "touch voltage" has been omitted. There is only a fault voltage limit of 65 V AC or

In case of application in any **other country** than those mentioned take into account national rules and recommendations.



#### **Residual Current Devices PFIM**

- · Residual current devices
- · Shape compatible with and suitable for standard busbar connection to other devices of the 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., Z-A. can be mounted subsequently
- Auxiliary switch Z-HK can be mounted subsequently
- Contact position indicator red green
- Delayed types suitable for being used with standard fluorescent tubes with or without electronical ballast (30mA-RCD: 30 units per phase conductor, 100mA-RCD: 90 units per phase conductor)

Notes: Depending of the fluorescent lamp ballast manufacturer partly more possible. Symmetrical allocation of the fluorescent lamp ballasts on all phases favourably. Shifting references of the fluorescent lamp ballast manufacturer consider.

- 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 the meaning of the applicable installation rules
- Mains connection at either side
- The 4-pole device can also be used for 3-pole connection. For this purpose use terminals 1-2, 3-4, and 5-6 (+ cable link).
- The 4-pole device can also be used for 2-pole connection. For this purpose use terminals 5-6 and N-N.
- The test key "T" must be pressed every month. The system operator must be informed of this obligation and his responsibility in a way that can be
- proven (self-adhesive RCD-label enclosed)
   Pressing the test key "T" serves the only purpose of function testing the residual current device (RCD). This test does not make earthing resistance measurement (R<sub>E</sub>), or proper checking of the earth conductor condition redundant, which must be performed separately.
- Type -A: Protects against special forms of residual pulsating DC which have have not been smoothed
- Type -G: High reliability against unwanted tripping. Compulsory for any circuit where personal injury or damage to property may occur in case of unwanted tripping (ÖVE/ÖNORM E 8001-1 § 12.1.6).

- 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 aviod unwanted tripping due to X-ray devices.
- Type -S: Selective residual current device sensitive to AC, type -S. Compulsory for systems with surge arresters downstream of the RCD (ÖVE/ÖNORM E 8001-1 § 12.1.5).
- Type -S/A: Additionally protects against special forms of residual pulsating pulsating DC which have not been smoothed.
- Type -U: Suitable for speed-controlled drives with frequency converters in household, trade, and industry.

Unwanted tripping is avoided thanks to a tripping characteristic designed particularly for frequency converters.

See also explanation "Frequency Converter-Proof RCDs - What for?" Application according to ÖVE/ÖNORM E 8001-1 and Decision EN 219 (1989), VDE 0100, SEV 1000.

Accessories:		
Auxiliary switch for		
subsequent installation to the left	Z-HK	248432
Tripping signal contact for		
subsequent installation to the right	Z-NHK	248434
Remote control and		
automatic switching device	Z-FW/LP	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

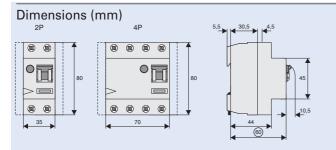
### Connection diagrams



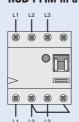
#### **Technical Data**

Technical Data			
Electrical		Mechanical	
Design according to	IEC/EN 61008	Frame size	45 mm
	Type G acc. to ÖVE E 8601	Device height	80 mm
Current test marks as printed onto the	device	Device width	35 mm (2MU),
Tripping	instantaneous		70 mm (4MU)
Type G, R	10 ms delay	Mounting	quick fastening with
Type S	40 ms delay -		2 lock-in positions on
	with selective disconnecting		DIN rail IEC/EN 60715
	function	Degree of protection, built-in	IP40
Type U (only 30 mA)	10 ms delay	Deg. of prot. in moisture-proof encl.	IP54
Type U (without 30 mA)	40 ms delay -	Upper and lower terminals	open mouthed/lift terminals
	with selective disconnecting	Terminal protection	finger and hand touch safe,
	function		BGV A3, ÖVE-EN 6
Rated voltage U <sub>n</sub>	230/400 V, 50 Hz	Terminal capacity	1.5 - 35 mm² single wire
Rated tripping current $I_{\Delta n}$	10, 30, 100, 300, 500 mA		2 x 16 mm <sup>2</sup> multi wire
Sensitivity	AC and pulsating DC	Busbar thickness	0.8 - 2 mm
Rated insulation voltage U <sub>i</sub>	440 V	Tripping temperature	-25°C to +40°C
Rated impulse withstand voltage U <sub>imp</sub>	4 kV	Storage- and transport temperature	-35°C to +60°C
Rated short circuit strength I <sub>nc</sub>	10 kA	Resistance to climatic conditions	25-55°C/90-95% relative
Maximum back-up fuse	Short circuit		humidity acc. to IEC 60068-2
$I_n = 16-63 \text{ A}$	63 A gG/gL		
$I_{n} = 80 \text{ A}$	80 A gG/gL		
I <sub>n</sub> = 100 A	100 A gG/gL		
Type PFIM-X:	00 A 07 I		
$I_n = 40A$	63 A gG/gL		
I <sub>n</sub> = 63A	63 A gG/gL		
Rated breaking capacity I <sub>m</sub> or			
Rated fault breaking capacity $I_{\Delta m}$	500 A		
$I_n = 16-40 \text{ A}$ $I_n = 63 \text{ A}$	630 A		
$I_n = 03 \text{ A}$ $I_n = 80 \text{ A}$	800 A		
$I_{\rm n} = 30  \text{A}$ $I_{\rm n} = 100  \text{A}$	1,000 A		
Voltage range of test button 2-pole	184 - 250 V~		
4-pole	184 - 440 V~		
Endurance			
electrical comp.	≥ 4,000 operating cycles		
mechanical comp.	≥ 20,000 operating cycles		





#### RCD PFIM in a Three-Phase AC Network without Neutral Conductor



The N-terminal must be connected by a cable link with the phase L2 (or L1), so that the test loop is supplied with current and the RCD is tested correctly.

#### Influence of the ambient temperature to the maximum continuous current (A)

	16A		25A		40A		63A		80A		100A	1
Ambient temperature	2p	4p	2p	4p	2p	4p	2p	4p	2p	4р	2p	4р
40°	16	16	25	25	40	40	63	63	80	80	100	100
45°	14	14	21	22	37	37	59	59	76	76	95	95
50°	11	11	18	19	33	34	55	55	72	72	90	90
55°	9	9	14	16	30	31	50	50	68	68	85	85
60°	_ *)	-	-	-	26	27	45	45	64	64	80	80

Annotation: It has to be ensured that the values in the table are not exceeded and the back-up fuse/thermal protection works properly



<sup>\*)</sup> not applicable

#### **Residual Current Devices PF7**

- Residual current devices
- · Shape compatible with and suitable for standard busbar connection to other devices of the 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 PL., PFL., Z-A. can be mounted subsequently
- Auxiliary switch Z-HK can be mounted subsequently
- Contact position indicator red green
- · Delayed types suitable for being used with standard fluorescent tubes with or without electronical ballast (30mA-RCD: 30 units per phase conductor, 100mA-RCD: 90 units per phase conductor)

Notes: Depending of the fluorescent lamp ballast manufacturer partly more possible. Symmetrical allocation of the fluorescent lamp ballasts on all phases favourably. Shifting references of the fluorescent lamp ballast manufacturer consider.

- 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 the meaning of the applicable installation rules
- · Mains connection at either side
- Types with 80 a 100 A permissible short-circuit back-up fuse (PF7-80, PF7-100): Take into account overload protection
- The 4-pole device can also be used for 3-pole connection. For this purpose use terminals 1-2, 3-4, and 5-6 (+ cable link).
- The 4-pole device can also be used for 2-pole connection. For this purpose use terminals 5-6 and N-N.
- The test key "T" must be pressed every month. The system operator must be informed of this obligation and his responsibility in a way that can be proven (self-adhesive RCD-label enclosed)
- Pressing the test key "T" serves the only purpose of function testing the residual current device (RCD). This test does not make earthing resistance measurement (R<sub>F</sub>), or proper checking of the earth conductor condition redundant, which must be performed separately.
- Type -A: Protects against special forms of residual pulsating DC which have have not been smoothed
- Type -G: High reliability against unwanted tripping. Compulsory for any circuit where personal injury or damage to property may occur in case of unwanted tripping (ÖVE/ÖNORM E 8001-1 § 12.1.6).

- Type -G/A: Additionally protects against special forms of residual pulsating DC which have not been smoothed.
  - Special types for X-ray application PF7-...-R
- Type -S: Selective residual current device sensitive to AC, type -S. Compulsory for systems with surge arresters downstream of the RCD (ÖVE/ÖNORM E 8001-1 § 12.1.5).
- Type -S/A: Additionally protects against special forms of residual pulsating pulsating DC which have not been smoothed.

#### Accessories:

7.00000011001		
Auxiliary switch for		
subsequent installation to the left	Z-HK	248432
Tripping signal contact for		
subsequent installation to the right	Z-NHK	248434
Remote control and		
automatic switching device	Z-FW/LP	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

#### Connection diagrams





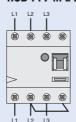
#### **Technical Data**

Technical Data				
Electrical		Mechanical		
Design according to	IEC/EN 61008	Frame size	45 mm	
	Type G acc. to ÖVE E 8601	Device height	80 mm	
Current test marks as printed onto the	device	Device width	35 mm (2MU),	
Tripping	instantaneous		70 mm (4MU)	
Type G	10 ms delay	Mounting	quick fastening with	
Type S	40 ms delay -		2 lock-in positions on	
	with selective disconnecting		DIN rail IEC/EN 60715	
	function	Degree of protection, built-in	IP40	
Rated voltage U <sub>n</sub>	230/400 V, 50 Hz	Deg. of prot. in moisture-proof encl.	IP54	
Rated tripping current $I_{\Delta n}$	10, 30, 100, 300, 500 mA	Upper and lower terminals	open mouthed/lift terminals	
Sensitivity	AC and pulsating DC	Terminal protection	finger and hand touch safe,	
Rated insulation voltage U <sub>i</sub>	440 V		BGV A3, ÖVE-EN 6	
Rated impulse withstand voltage U <sub>imp</sub>	4 kV	Terminal capacity	1x (1.5 - 35) mm <sup>2</sup> single wire	
Rated short circuit strength I <sub>nc</sub>	10 kA		2x (1.5 - 16) mm <sup>2</sup> multi wire	
Maximum back-up fuse	Overload Short circuit	Busbar thickness	0.8 - 2 mm	
I <sub>n</sub> = 16-40 A	25 A gG/gL 63 A gG/gL	Tripping temperature	-25°C to +40°C	
$I_{n} = 63 \text{ A}$	40 A gG/gL 63 A gG/gL	Storage- and transport temperature	-35°C to +60°C	
$I_{n} = 80 \text{ A}$	50 A gG/gL 80 A gG/gL	Resistance to climatic conditions	25-55°C/90-95% relative	
I <sub>n</sub> = 100 A	63 A gG/gL 100 A gG/gL		humidity acc. to IEC 60068-2	
Rated breaking capacity I <sub>m</sub> or				
Rated fault breaking capacity $I_{\Delta m}$				
$I_n = 16-40 \text{ A}$	500 A			
I <sub>n</sub> = 63 A	630 A			
$I_{n} = 80 \text{ A}$	800 A			
I <sub>n</sub> = 100 A	1,000 A			
Voltage range of test button 2-pole 4-pole	184 - 250 V~ 184 - 440 V~			
Endurance				
electrical comp.	≥ 4,000 operating cycles			
mechanical comp.	≥ 20,000 operating cycles			



# 

#### RCD PF7 in a Three-Phase AC Network without Neutral Conductor



The N-terminal must be connected by a cable link with the phase L2 (or L1), so that the test loop is supplied with current and the RCD is tested correctly.

#### Influence of the ambient temperature to the maximum continuous current (A)

	16A	25A		40A		63A		80A	100A
Ambient temperature	2p	2p	4p	2p	4p	2p	4p	4p	4p
40°	16	25	25	40	40	63	63	80	100
45°	14	21	22	37	37	59	59	76	95
50°	11	18	19	33	34	55	55	72	90
55°	9	14	16	30	31	50	50	68	85
60°	_ *)	_*)	_*)	26	27	45	45	64	80

Annotation: It has to be ensured that the values in the table are not exceeded and the back-up fuse/thermal protection works properly



<sup>\*)</sup> not applicable

#### **Residual Current Devices PF6**

- 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., Z-A. can be mounted subsequently
- · Auxiliary switch Z-HK can be mounted subsequently
- Contact position indicator red green
- Suitable for being used with standard fluorescent tubes with or without electronical ballast (typically up to 20 units per phase conductor)
- The device functions irrespective of the position of installation
- Mains connection at either side
- The 4-pole device can also be used for 3-pole connection. For this purpose use terminals 1-2, 3-4, and 5-6 (+ cable link).
- The 4-pole device can also be used for 2-pole connection. For this purpose use terminals 5-6 and N-N.
- The test key "T" must be pressed every month. The system operator must be informed of this obligation and his responsibility in a way that can be proven (self-adhesive RCD-label enclosed)
- Pressing the test key "T" serves the only purpose of function testing the residual current device (RCD). This test does not make earthing resistance measurement ( $R_{\rm E}$ ), or proper checking of the earth conductor condition redundant, which must be performed separately.

ccessories:
uxiliary switch for
subsequent installation to the left

Auxiliary Switch for		
subsequent installation to the left	Z-HK	248432
Tripping signal contact for		
subsequent installation to the right	Z-NHK	248434
Remote control and		
automatic switching device	Z-FW/LP	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

#### Connection diagrams

Resistance to climatic conditions

T N	1

Δι

#### **Technical Data**

Electrical				
Design according to	IEC/EN 61008			
Current test marks as printed	d onto the	device		
Tripping		instantaneous		
Rated voltage U <sub>n</sub>		230/400 V, 50 Hz		
Rated tripping current I	30, 300 mA			
Sensitivity		AC and pulsating DC		
Rated insulation voltage U <sub>i</sub>	440 V			
Rated impulse withstand vol	4 kV			
Rated short circuit strength I	nc	6 kA		
Maximum back-up fuse		Overload	Short circuit	
I <sub>n</sub> = 25-40 A		25 A gG/gL	63 A gG/gL	
I <sub>n</sub> = 63 A		40 A gG/gL	63 A gG/gL	
Rated breaking capacity I <sub>m</sub> o	r			
Rated fault breaking capacity	/ l <sub>Δm</sub>			
I <sub>n</sub> = 16-40 A		500 A		
I <sub>n</sub> = 63 A		630 A		
Voltage range of test button	2-pole	184 - 250 V~		
	1 nolo	10/ //01/		

I <sub>n</sub> = 10 +0 / (		00071
$I_{n}^{"} = 63 \text{ A}$		630 A
Voltage range of test button	2-pole	184 - 250 V
	4-pole	184 - 440 V
Endurance		

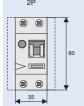
electrical comp.	
mechanical com	p.

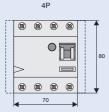
≥ 4,000 operating cycles ≥ 20,000 operating cycles

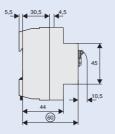
M	ec	ha	ın	ica	al
C۷	<u> </u>		٠:		

45 mm
80 mm
35 mm (2MU),
70 mm (4MU)
quick fastening with
2 lock-in positions on
DIN rail IEC/EN 60715
IP40
IP54
open mouthed/lift terminals
finger and hand touch safe,
BGV A3, ÖVE-EN 6
1x (1.5 - 35) mm <sup>2</sup> single wire
2x (1.5 - 16) mm <sup>2</sup> multi wire
0.8 - 2 mm
-25°C to +40°C
-35°C to +60°C

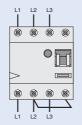
### Dimensions (mm)







#### RCD PF6 in a Three-Phase AC Network without Neutral Conductor



The N-terminal must be connected by a cable link with the phase L2 (or L1), so that the test loop is supplied with current and the RCD is tested correctly.

25-55°C/90-95% relative

humidity acc. to IEC 60068-2

#### Influence of the ambient temperature to the maximum continuous current (A)

	25A		40A		63A
Ambient temperature	2p	4p	2p	4p	4р
40°	25	25	40	40	63
45°	21	22	37	37	59
50°	18	19	33	34	55
55°	14	16	30	31	50
60°	_*)	_*)	26	27	45

Annotation: It has to be ensured that the values in the table are not exceeded and the back-up fuse/thermal protection works properly

\*) not applicable

