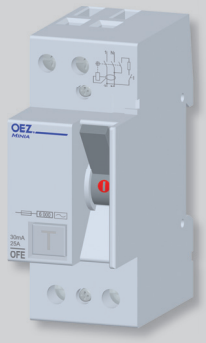
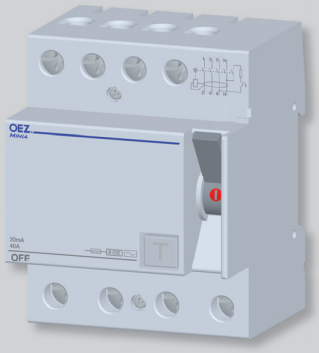
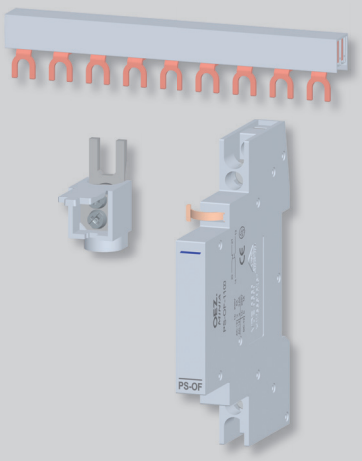
RESIDUAL CURRENT CIRCUIT BREAKERS OFE (6 kA)







- They react to sine-wave residual current (type AC).
- For protection:
  - against dangerous contact with live parts ($I_{\Delta n} \leq 30$ mA)
  - against dangerous contact with dead parts
  - against fire or short-circuit in reduced insulation capacity of electrical equipment ($I_{\Delta n} \leq 300$ mA)
- Possibility of additional mounting of auxiliary switches PS-OF-1100 on the right side of the device.
- Surge current resistance up to 1 kA (8/20 µs).
- Possibility of interconnection with circuit breakers LPE (LPN) by means of interconnecting busbars.
- N-pole of residual current circuit breakers in switching on it closes before and in switching off it opens after the other poles.

Residual current circuit breakers, 2-pole, type AC

6 000

- Standard type for common use in building and housing installations up to 40 A, 230 V a.c.

$I_{\Delta n}$ [mA]	I_n [A]	Type	Product code	Number of modules	Weight [kg]	Package [pcs]
30	25	**OFE-25-2-030AC**	35299	2	0.28	1
30	40	**OFE-40-2-030AC**	35301	2	0.28	1
300	25	**OFE-25-2-300AC**	35300	2	0.28	1
300	40	**OFE-40-2-300AC**	35302	2	0.28	1

Residual current circuit breakers, 4-pole, type AC

- Standard type for common use in building and housing installations up to 63 A, 230/400 V a.c.

$I_{\Delta n}$ [mA]	I_n [A]	Type	Product code	Number of modules	Weight [kg]	Package [pcs]
30	25	**OFE-25-4-030AC**	35303	4	0.52	1
	40	**OFE-40-4-030AC**	35305	4	0.52	1
	63	**OFE-63-4-030AC**	35307	4	0.52	1
300	40	**OFE-40-4-300AC**	35306	4	0.52	1
	63	**OFE-63-4-300AC**	35308	4	0.52	1

Accessories to OFE

Auxiliary switch	**PS-OF-1100**	page C22
Interconnecting busbars	**G2L-1000-16, G4L-1000-16**	page E52
Terminal extensions	**AS-25-G, AS-25-S**	page E57

RESIDUAL CURRENT CIRCUIT BREAKERS OFE (6 kA)

Specifications

Type		OFE-..-2-..	OFE-..-4-..
Standards		EN 61008, IEC 755	EN 61008, IEC 755
Approval marks			
Number of poles		2	4
Type		AC	AC
Rated current	I_n	25, 40 A	25, 40, 63 A
Rated residual current	$I_{\Delta n}$	30, 300 mA	30, 300 mA
Rated operating voltage	U_e	230 V a.c.	230/400 V a.c.
Min. operating voltage [1]	U_{min}	100 V a.c.	100 V a.c.
Max. operating voltage	U_{max}	240 V a.c.	240/415 V a.c.
Rated frequency	f_n	50/60 Hz	50/60 Hz
Rated conditional short-circuit current: [3]	I_{nc}		
with back-up fuse $I_n \leq 63$ A gG		6 kA	-
with back-up fuse $I_n \leq 100$ A gG		-	6 kA
with back-up miniature circuit breaker LPE, LPN, L ST with I_n max. 1:1		6 kA	6 kA
Rated making and breaking capacity	I_m	500 A	800 A
Surge resistance (8/20 µs)		1 kA	1 kA
Release delay		-	-
Mechanical endurance		>10 000 operating cycles	>10 000 operating cycles
EElectrical endurance		>10 000 operating cycles	>10 000 operating cycles
Degree of protection		IP20	IP20
Connection			
Conductor		1 ÷ 16 mm²	1.5 ÷ 25 mm²
Torque		3 Nm	3 Nm
Top or bottom connection		yes	yes
Operating conditions			
Ambient temperature		-5 ÷ 45 °C	-5 ÷ 45 °C
Working position		arbitrary	arbitrary
Seismic resistance		IEC 980:1993 [2]	IEC 980:1993 [2]

[1] For preserving the function of the test push-button

[2] It passed the seismic tests for NPP Dukovany and Temelín

[3] Rated conditional short-circuit current relates to short-circuit protection. It is also possible to protect residual current circuit breakers against overload by circuit breaker and fuse-link. In this case I_n of MCB has to be equal or lower than I_n of RCCB ($I_{n\,MCB} \leq I_{n\,RCCB}$) a I_n and In of fuse-link has to be by one degree lower than I_n of RCCB ($I_{n\,of\,fuse\text{-}link\,by\,one\,degree\,lower} \leq I_{n\,RCCB}$)

Powers losses P

OFE-...-2-...

I_n [A]	$I_{\Delta n}$ [A]	P [1] [W/pole]
25	0.03	2
	0.30	1
40	0.03	4
	0.30	2.5

[1] Mean values

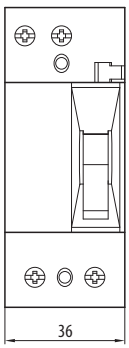
OFE-...-4-...

I_n [A]	$I_{\Delta n}$ [A]	P [1] [W/pole]
25	0.03	1.2
40	0.03	3.2
	0.30	1.65
63	0.03	4
	0.30	3.2

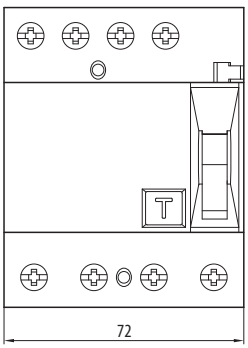
[1] Mean values

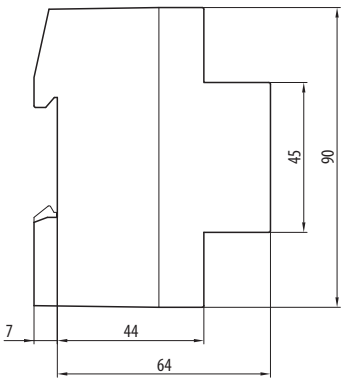
Dimensions

OFE-..-2-..



OFE-..4-..

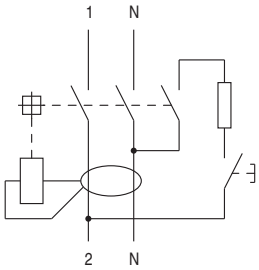




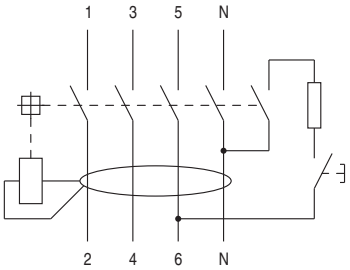
RESIDUAL CURRENT CIRCUIT BREAKERS OFE (6 kA)

Diagram

OFE-..-2-..

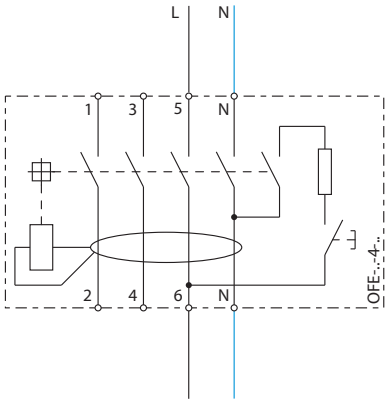


OFE-..-4-..

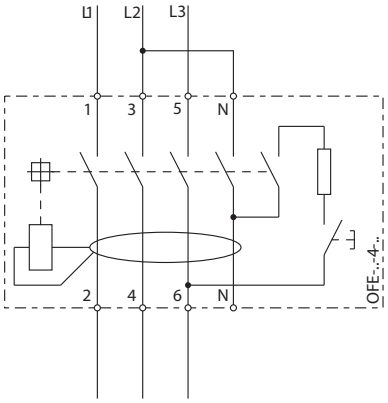


Connection

residual current circuit breaker 4-pole in 1-phase circuits with N-pole



residual current circuit breaker 4-pole in 3-phase circuits without N-pole



ACCESSORIES FOR OFE, OFI

Auxiliary switches for residual current circuit breakers

- Accessories to: OFI and OFE.
- Installation: on the right side of the residual current circuit breaker.
- For signalling the position of contacts of residual current circuit breakers.

Accessories to	Type	Product code	Arrangement of contacts [1]	Number of modules	Weight [kg]	Package [pcs]
OFI, OFE do 80 A	**PS-OF-1100**	35309	11	0.5	0.07	1
OFI 100, 125 A	**PS-OF125-1100**	36840	11	0.5	0.07	1

[1] Each digit indicates successively the number of make and break contacts

Specifications

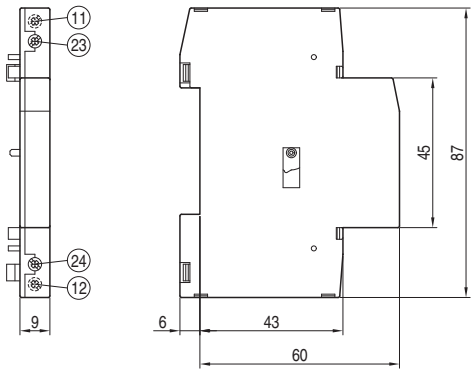
Type		PS-OF-1100	PS-OF125-1100
Standards		EN 62019	EN 62019 EN 60947-5-1
Approval marks			
Arrangement of contacts [1]		11	11
Rated operating voltage / current U_e/I_e	AC-12	230 V a.c. / 6 A	230 V a.c. / 5 A
	AC-14	230 V a.c. / 3.6 A	-
	DC-12	220 V d.c. / 1 A	220 V d.c. / 0.5 A
Min. voltage / current		24 V a.c. / 50 mA	24 V a.c. / 50 mA
Short-circuit protection		MCB 6 A, characteristic B or C	MCB 6 A, characteristic B or C
		fuse 6 A gG	fuse 6 A gG
Electrical endurance		10 000 operating cycles	10 000 operating cycles
Degree of protection		IP20	IP20
Mounting		on the right side of the device	on the right side of the device
Connection			
Conductor rigid (solid, stranded)		0.75 ÷ 2.5 mm^2	0.75 ÷ 2.5 mm^2
Conductor flexible		0.75 ÷ 2.5 mm^2	0.75 ÷ 2.5 mm^2
Torque		0.8 Nm	0.8 Nm
Top or bottom connection		yes	yes
Operating conditions			
Ambient temperature		-25 ÷ 45 °C	-25 ÷ 45 °C
Working position		arbitrary	arbitrary

[1] Each digit indicates successively the number of make and break contacts

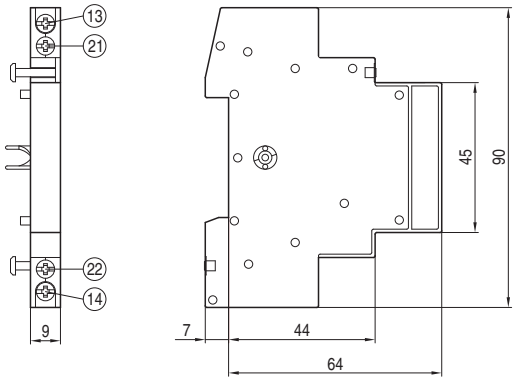
ACCESSORIES FOR OFE, OFI

Dimensions

PS-OF125-1100

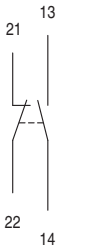


PS-OF-1100



Diagram

PS-OF-1100



PS-OF125-1100