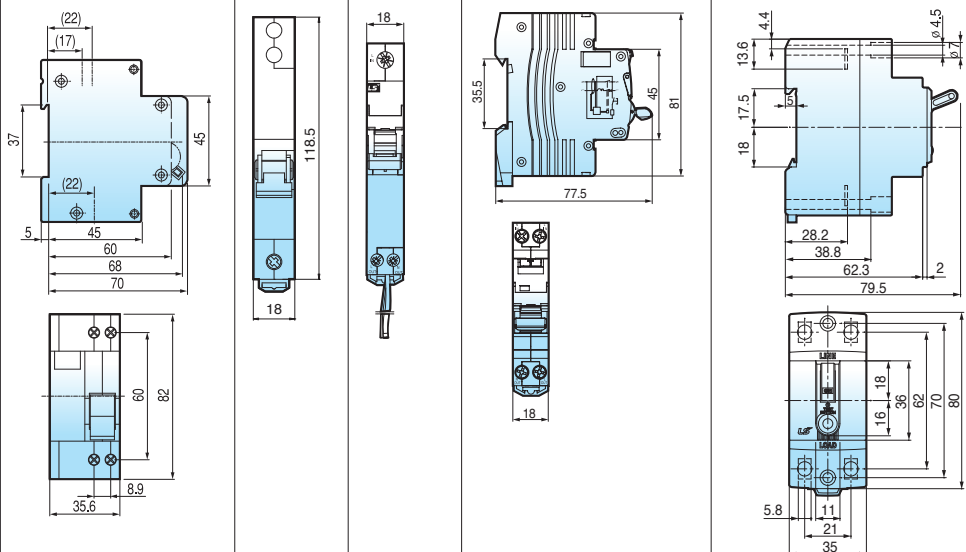


Residual Current Circuit Breakers

RKP, RKS, RKC, KGR, RKN Series

Type	RCBO					
	RKP	RKS	RKS-b	RKC	32KGRc	32KGRd
Protection	Ground fault and overcurrent	Ground fault and overcurrent		Ground fault and overcurrent	Ground fault and overcurrent	
Rated current in	3 (C, D curve), 6, 10, 16, 20, 25, 32A (B, C, D curve)	6, 10, 16, 20, 25, 32A (40, 50A)* (B, C curve)		6, 10, 16, 20, 25, 32A (B, C curve)	15, 20, 30A	
Rated residual current						
Operating, $I_{\Delta n}$	30, 100, 300mA (Non-adjustable)	30, 100mA (Non-adjustable)		10, 30mA (Non-adjustable)	15, 30mA (Non-adjustable)	
	Non-operating, $I_{\Delta no}$	0.5 $I_{\Delta n}$		0.5 $I_{\Delta n}$	0.5 $I_{\Delta n}$	
Poles	1P+N	1P+N		1P+N	2pole	
Rated voltage	230VAC	230VAC	240VAC	240VAC	110/240VAC	
Residual current off-time	≤0.1 sec.	≤0.3 sec.		≤0.01 sec	≤0.03 sec	
Standard	IEC 61009	IEC 61009		IEC 61009	IEC 61009, KS	
Approval	CCC, SEMKO CB, CE, SABS	SEMKO CB, CE, SABS	SEMKO CB, CE	BV CB	CCC	
Type of trip						
Ground fault	Electronic	Electronic		Electronic	Electronic	
	Overcurrent	Thermal-magnetic		Thermal-magnetic	Bimetallic	
Breaking capacity	4.5kA	10kA		6kA (32A 4.5kA)	1.5kA	2.5kA
Conditional short circuit capacity	-	-		-	-	
Endurance	Electrical	4,000 operations	4,000 operations	4,000 operations	4,000 operations	
	Mechanical	10,000 operations	10,000 operations	10,000 operations	10,000 operations	
Mount	On 35mm DIN rail	On 35mm DIN rail		On 35mm DIN rail	On 35mm DIN rail / Screw	
Width	35.6mm	18mm		18mm	35mm	
Terminal	Lug type (Cable up to 10mm ²)	Lug type (Cable up to 10mm ²)		Lug type (Cable up to 10mm ²)	Screw clamp type (Cable up to 5.5mm ²)	
Type of operation	AC	AC		A/AC	-	
Dimension						
Characteristic curve	See page 45	See page 45				

* 40, 50A are available only for RKS-b

Residual Current Devices



		RCCB		Isolator	
		32GRhc	32GRhc	RKN	RKN-b
		Ground fault and overcurrent		Ground fault	
		15, 20, 30A		25, 32, 40, 63A	
				63AF 25, 40, 63	
				100AF 80, 100A	
		15, 30mA (Non-adjustable)		30, 100, 300mA (Non-adjustable)	
		0.5I _{Δn}		0.5I _{Δn}	
		2pole		1P+N, 3P+N	
		110/220VAC		240VAC (1P+N), 240/415V (3P+N)	
		≤0.03 sec		≤0.1 sec	
		KS		IEC 61008	
		-		SEMKO CB, CE, NF, SABS, CCC	
				SEMKO CB, CE, SABS	
		Electronic		Electro-magnetic	
		Bimetallic		N.A	
		1.5kA		-	
		2.5kA		-	
		-		6kA	
				10kA	
		4,000 operations		4,000 operations	
		10,000 operations		10,000 operations	
		On 35mm DIN rail / Screw		On 35mm DIN rail	
		33mm		-	
		Screw clamp type (Cable up to 5.5mm ²)		Lug type (Cable up to 35mm ²)	
		-		Lug type (Cable up to 50mm ²)	
		A/AC		A/AC	
				AC	
		-		-	

Residual current circuit breakers

RKP type



RKP 1P+N

Certificate
CE

Technical data

Type	RKP
Protection	Ground fault and overcurrent
Rated current, I_n	3(C, D), 6, 10, 16, 20, 25, 32A (B, C, D curve)
Rated residual current	
Operating, $I_{\Delta n}$	30, 100, 300mA (non-adjustable)
Non-operating, $I_{\Delta no}$	$0.5I_{\Delta n}$
Number of poles	1P+N
Rated voltage	230VAC
Residual current off-time	≤ 0.1 sec.
Standard	IEC 61009
Approval	CCC, CQC CB
Type of trip	
Ground fault	Electro-magnetic
Overcurrent	Thermal-magnetic
Breaking capacity	4.5kA
Electrical endurance	20000 operations
Mount	On 35mm DIN rail
Width	9mm per pole
Terminal	Lug type (cable up to 10mm ²)

Catalog No.

RKP B curve

I_n	$I_{\Delta n}$	Model	Catalog No.	Pack. unit (Pcs.)
3A	30mA	Not applicable	Not applicable	Not applicable
	100mA	Not applicable	Not applicable	Not applicable
	300mA	Not applicable	Not applicable	Not applicable
6A	30mA	RKP-B6-1+N/30mA	06220123R0	60
	100mA	RKP-B6-1+N/100mA	06220124R0	60
	300mA	RKP-B6-1+N/300mA	06220125R0	60
10A	30mA	RKP-B10-1+N/30mA	06220127R0	60
	100mA	RKP-B10-1+N/100mA	06220128R0	60
	300mA	RKP-B10-1+N/300mA	06220129R0	60
16A	30mA	RKP-B16-1+N/30mA	06220131R0	60
	100mA	RKP-B16-1+N/100mA	06220132R0	60
	300mA	RKP-B16-1+N/300mA	06220133R0	60
20A	30mA	RKP-B20-1+N/30mA	06220135R0	60
	100mA	RKP-B20-1+N/100mA	06220136R0	60
	300mA	RKP-B20-1+N/300mA	06220137R0	60
25A	30mA	RKP-B25-1+N/30mA	06220139R0	60
	100mA	RKP-B25-1+N/100mA	06220140R0	60
	300mA	RKP-B25-1+N/300mA	06220141R0	60
32A	30mA	RKP-B32-1+N/30mA	06220143R0	60
	100mA	RKP-B32-1+N/100mA	06220144R0	60
	300mA	RKP-B32-1+N/300mA	06220145R0	60



RKP 1P+N

Certificate
CE

Catalog No.

RKP C curve

In	I _{Δn}	Model	Catalog No.	Pack. unit (Pcs.)
3A	30mA	RKP-C3-1+N/30mA	06220147R0	60
	100mA	RKP-C3-1+N/100mA	06220148R0	60
	300mA	RKP-C3-1+N/300mA	06220149R0	60
6A	30mA	RKP-C6-1+N/30mA	06220151R0	60
	100mA	RKP-C6-1+N/100mA	06220152R0	60
	300mA	RKP-C6-1+N/300mA	06220153R0	60
10A	30mA	RKP-C10-1+N/30mA	06220155R0	60
	100mA	RKP-C10-1+N/100mA	06220156R0	60
	300mA	RKP-C10-1+N/300mA	06220157R0	60
16A	30mA	RKP-C16-1+N/30mA	06220159R0	60
	100mA	RKP-C16-1+N/100mA	06220160R0	60
	300mA	RKP-C16-1+N/300mA	06220161R0	60
20A	30mA	RKP-C20-1+N/30mA	06220163R0	60
	100mA	RKP-C20-1+N/100mA	06220164R0	60
	300mA	RKP-C20-1+N/300mA	06220165R0	60
25A	30mA	RKP-C25-1+N/30mA	06220167R0	60
	100mA	RKP-C25-1+N/100mA	06220168R0	60
	300mA	RKP-C25-1+N/300mA	06220169R0	60
32A	30mA	RKP-C32-1+N/30mA	06220171R0	60
	100mA	RKP-C32-1+N/100mA	06220172R0	60
	300mA	RKP-C32-1+N/300mA	06220173R0	60

RKP D curve



In	I _{Δn}	Model	Catalog No.	Pack. unit (Pcs.)
3A	30mA	RKP-D3-1+N/30mA	06220175R0	60
	100mA	RKP-D3-1+N/100mA	06220176R0	60
	300mA	RKP-D3-1+N/300mA	06220177R0	60
6A	30mA	RKP-D6-1+N/30mA	06220179R0	60
	100mA	RKP-D6-1+N/100mA	06220180R0	60
	300mA	RKP-D6-1+N/300mA	06220181R0	60
10A	30mA	RKP-D10-1+N/30mA	06220183R0	60
	100mA	RKP-D10-1+N/100mA	06220184R0	60
	300mA	RKP-D10-1+N/300mA	06220185R0	60
16A	30mA	RKP-D16-1+N/30mA	06220187R0	60
	100mA	RKP-D16-1+N/100mA	06220188R0	60
	300mA	RKP-D16-1+N/300mA	06220189R0	60
20A	30mA	RKP-D20-1+N/30mA	06220191R0	60
	100mA	RKP-D20-1+N/100mA	06220192R0	60
	300mA	RKP-D20-1+N/300mA	06220193R0	60
25A	30mA	RKP-D25-1+N/30mA	06220195R0	60
	100mA	RKP-D25-1+N/100mA	06220196R0	60
	300mA	RKP-D25-1+N/300mA	06220197R0	60
32A	30mA	RKP-D32-1+N/30mA	06220199R0	60
	100mA	RKP-D32-1+N/100mA	06220200R0	60
	300mA	RKP-D32-1+N/300mA	06220201R0	60

Residual current circuit breakers

KGR type



32KGRb

Certificate
CE

Technical data

Type	32KGRa	32KGRb
Protection	Ground fault and overcurrent	
Rated current, I_n	15, 20, 30A	
Rated residual current		
Operating, $I_{\Delta n}$	15, 30mA (non-adjustable)	
Non-operating, $I_{\Delta no}$	0.5 $I_{\Delta n}$	
Number of poles	2pole	
Rated voltage	110/220VAC	
Residual current off-time	≤ 0.03 sec.	
Standard	KS, JIS (IEC 61009)*	
Approval	-	
Type of trip		
Ground fault	Electronic	
Overcurrent	Bimetallic	
Breaking capacity	1.5kA	2.5kA
Electrical endurance	6000 operations	
Mount	On 35mm DIN rail	
Width	35mm	
Terminal	Screw clamp type (cable up to 25mm ²)	

Note) *IEC 61009 standard is applicable for 32KGRa

32KGRa Type

I_n	$I_{\Delta n}$	Model	Catalog No.	Pack. unit (Pcs.)
15A	15mA	32KGRa 15A 15mA 0.03S	0750000400	60
	30mA	32KGRa 15A 30mA 0.03S	0750000100	60
20A	15mA	32KGRa 20A 15mA 0.03S	0750000500	60
	30mA	32KGRa 20A 30mA 0.03S	0750000200	60
30A	15mA	32KGRa 30A 15mA 0.03S	0750000600	60
	30mA	32KGRa 30A 30mA 0.03S	0750000300	60

32KGRb Type

I_n	$I_{\Delta n}$	Model	Catalog No.	Pack. unit (Pcs.)
15A	15mA	32KGRb 15A 15mA 0.03S	0748001000	60
	30mA	32KGRb 15A 30mA 0.03S	0748001100	60
20A	15mA	32KGRb 20A 15mA 0.03S	0748001200	60
	30mA	32KGRb 20A 30mA 0.03S	0748001300	60
30A	15mA	32KGRb 30A 15mA 0.03S	0748001400	60
	30mA	32KGRb 30A 30mA 0.03S	0748001500	60

RKS Type



RKS 1+N

Certificate
CE

Technical data

Standard	Confirming to IEC 61009
Protection	Ground fault and overcurrent
Rated current In	6, 10, 16, 20, 25, 32A
Rated voltage	230VAC
Breaking capacity	10kA
Characteristic	B, C Curve
Rated residual operating current(mA)	30,100
Number of poles	1P+N
Type of trip	Electro-magnetic (Ground fault) Thermal-magnetic (Overcurrent)
Type of terminal	Lug type
Terminal capacity	Cables up to 10mm ²
Installation	35mm DIN rail
Width	18mm
Electrical endurance	4,000cycles
In	
Endurance	
Max. frequency (Cycles/hour)	

Catalog No.

RKS B Curve

In	I _{Δn}	Model	Catalog No.	Pack. unit (Pcs.)
6A	30mA	RKS -B6-1+N/30mA	06220395R0	50
	100mA	RKS -B6-1+N/100mA	06220396R0	50
10A	30mA	RKS -B10-1+N/30mA	06220397R0	50
	100mA	RKS -B10-1+N/100mA	06220398R0	50
16A	30mA	RKS -B16-1+N/30mA	06220399R0	50
	100mA	RKS -B16-1+N/100mA	06220400R0	50
20A	30mA	RKS -B20-1+N/30mA	06220401R0	50
	100mA	RKS -B20-1+N/100mA	06220402R0	50
25A	30mA	RKS -B25-1+N/30mA	06220403R0	50
	100mA	RKS -B25-1+N/100mA	06220404R0	50
32A	30mA	RKS -B32-1+N/30mA	06220405R0	50
	100mA	RKS -B32-1+N/100mA	06220406R0	50

RKS C Curve

In	I _{Δn}	Model	Catalog No.	Pack. unit (Pcs.)
6A	30mA	RKS -C6-1+N/30mA	06220407R0	50
	100mA	RKS -C6-1+N/100mA	06220408R0	50
10A	30mA	RKS -C10-1+N/30mA	06220409R0	50
	100mA	RKS -C10-1+N/100mA	06220410R0	50
16A	30mA	RKS -C16-1+N/30mA	06220411R0	50
	100mA	RKS -C16-1+N/100mA	06220412R0	50
20A	30mA	RKS -C20-1+N/30mA	06220413R0	50
	100mA	RKS -C20-1+N/100mA	06220414R0	50
25A	30mA	RKS -C25-1+N/30mA	06220415R0	50
	100mA	RKS -C25-1+N/100mA	06220416R0	50
32A	30mA	RKS -C32-1+N/30mA	06220417R0	50
	100mA	RKS -C32-1+N/100mA	06220418R0	50

Residual current circuit breakers

RKN Type



Residual current circuit breakers, RKN type



Certificate
CE

Technical data

Type	RKN	
Standard	Confirming to IEC61008	
Protection	Ground fault	
Rated current, I_n	25, 32, 40, 63A	
Number of poles	2(1+N), 4(3+N)pole	
Rated sensitivity currents, $I_{\Delta n}$	30, 100, 300mA	
Rated residual non-operating current	$0.5 \times I_{\Delta n}$	
Rated voltages	2pole	240VAC
	4pole	240/415VAC
Residual current off-time at $I_{\Delta n}$	$\leq 0.1s$	
Rated making capacity, I_m	500A for $I_n=25, 32, 40A$ 630A for $I_n=63A$	
Rated conditional short-circuit current, I_{nc}	6kA for $I_n=25, 32, 40, 63A$	
Type of trip	Electro-magnetic release	
Type of terminal	Lug type	
Terminal capacity	Cables up to 35mm ²	
Installation	35mm DIN rail	
Slot size	45mm	

Catalog No.

Pole	I_n	$I_{\Delta n}$	Model	Catalog No.	Pack.unit (Pcs.)
2P	25A	30mA	RKN -25-2/30mA	06220103R0	60
	32A		RKN -32-2/30mA	06220106R0	60
	40A		RKN -40-2/30mA	06220109R0	60
	63A		RKN -63-2/30mA	06220112R0	60
	25A	100mA	RKN -25-2/100mA	06220104R0	60
	32A		RKN -32-2/100mA	06220107R0	60
	40A		RKN -40-2/100mA	06220110R0	60
	63A		RKN -63-2/100mA	06220113R0	60
	25A	300mA	RKN -25-2/300mA	06220105R0	60
	32A		RKN -32-2/300mA	06220108R0	60
	40A		RKN -40-2/300mA	06220111R0	60
	63A		RKN -63-2/300mA	06220114R0	60
Pole	I_n	$I_{\Delta n}$	Model	Catalog No.	Pack.unit (Pcs.)
4P	25A	30mA	RKN -25-4/30mA	06240013R0	30
	32A		RKN -32-4/30mA	06240016R0	30
	40A		RKN -40-4/30mA	06240019R0	30
	63A		RKN -63-4/30mA	06240022R0	30
	25A	100mA	RKN -25-4/100mA	06240014R0	30
	32A		RKN -32-4/100mA	06240017R0	30
	40A		RKN -40-4/100mA	06240020R0	30
	63A		RKN -63-4/100mA	06240023R0	30
	25A	300mA	RKN -25-4/300mA	06240015R0	30
	32A		RKN -32-4/300mA	06240018R0	30
	40A		RKN -40-4/300mA	06240021R0	30
	63A		RKN -63-4/300mA	06240024R0	30