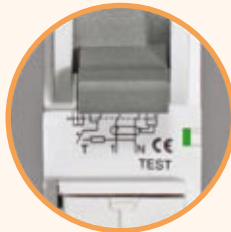


Residual current circuit breakers with integral overcurrent protection

Advantages of residual current circuit breakers with integral overcurrent protection KZS - 1M

→ Residual current circuit breaker combining the features of miniature circuit breaker and a residual current circuit breaker, functionally dependent on line voltage

→ Indication of contacts' state



→ KZS - 1M in 1-module housing



→ New method of mounting on the DIN rail and simple replacement

→ Sealing possibility



Residual current circuit breaker with integral overcurrent protection KZS - 1M

Rated short-circuit capacity 6 kA	Rated current 6 - 32 A	Tripping characteristic B, C	Rated residual current 0,03 A
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KZS - 1M			
I_n [A]	code No. B	code No. C	packaging [pcs]
6	002175201*	002175221*	1/12
10	002175202*	002175222*	1/12
13	002175203*	002175223*	1/12
16	002175204*	002175224*	1/12
20	002175205*	002175225*	1/12
25	002175206*	002175226*	1/12
32	002175207*	002175227*	1/12

* Soon available

* Types with $I_{\Delta n} = 10$ and 100 mA will also be available

Description - KZS - 1M is functionally dependent on line voltage.



Residual current circuit breaker with integral overcurrent protection KZS-2M

Rated short-circuit capacity
10 kA

Rated current
6 - 40 A

Tripping characteristic
B, C

Rated residual current
0,01 - 0,03 - 0,3 A

Description: KZS (KZS-2M, KZS-3M, KZS-4M) is a residual current circuit breaker combining the features of a miniature circuit breaker and a residual current circuit breaker and is functionally independent on line voltage. Used primarily in circuits with an increased requirements regarding touch voltage such as circuits of portable appliances, in kindergartens, schools, hospitals etc.



KZS-2M I_{Δn} = 30 mA

I _n [A]	type A		type AC		packaging [pcs]
	code No. B	code No. C	code No. B	code No. C	
6	002173201	002173221	002173101	002173121	1/54
10	002173202	002173222	002173102	002173122	1/54
13	002173203	002173223	002173103	002173123	1/54
16	002173204	002173224	002173104	002173124	1/54
20	002173205	002173225	002173105	002173125	1/54
25	002173206	002173226	002173106	002173126	1/54
32	002173207	002173227	002173107	002173127	1/54
40	002173208	002173228	002173108	002173128	1/54

KZS-2M I_{Δn} = 300 mA

I _n [A]	type AC		packaging [pcs]
	code No. B	code No. C	
6	002173301	002173321	1/54
10	002173302	002173322	1/54
13	002173303	002173323	1/54
16	002173304	002173324	1/54
20	002173305	002173325	1/54
25	002173306	002173326	1/54
32	002173307	002173327	1/54
40	002173308	002173328	1/54

KZS-2M I_{Δn} = 10 mA

I _n [A]	type A		packaging [pcs]
	code No. B	code No. C	
6	002173211	002173231	1/54
10	002173212	002173232	1/54
13	002173213	002173233	1/54
16	002173214	002173234	1/54

Residual current circuit breakers with integral overcurrent protection

Residual current circuit breaker with integral overcurrent protection KZS-3M

Rated short-circuit capacity 10 kA	Rated current 6 - 25 A	Tripping characteristic B, C	Rated residual current 0,03 A
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KZS-3M I_{Δn} = 30 mA

I _n [A]	type A		packaging [pcs]
	code No. B	code No. C	
6	002173801	002173821	1/36
10	002173802	002173822	1/36
13	002173803	002173823	1/36
16	002173804	002173824	1/36
20	002173805	002173825	1/36
25	002173806	002173826	1/36



Residual current circuit breaker with integral overcurrent protection KZS-4M 3p

Rated short-circuit capacity 10 kA	Rated current 6 - 32 A	Tripping characteristic B, C	Rated residual current 0,03 A
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KZS-4M 3p I_{Δn} = 30 mA

I _n [A]	type A		type AC		weight [g]	packaging [pcs]
	code No. B	code No. C	code No. B	code No. C		
6	002174701	002174721	002174801	002174821	478	1/27
10	002174702	002174722	002174802	002174822	478	1/27
13	002174703	002174723	002174803	002174823	478	1/27
16	002174704	002174724	002174804	002174824	478	1/27
20	002174705	002174725	002174805	002174825	478	1/27
25	002174706	002174726	002174806	002174826	478	1/27
32	002174707	002174727	002174807	002174827	478	1/27

NEW!



Residual current circuit breaker with integral overcurrent protection KZS-4M 3p+N

Rated short-circuit capacity 10 kA	Rated current 6 - 32 A	Tripping characteristic B, C	Rated residual current 0,03 A
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KZS-4M 3p+N I_{Δn} = 30 mA

I _n [A]	type A		type AC		weight [g]	packaging [pcs]
	code No. B	code No. C	code No. B	code No. C		
6	002174901	002174921	002174001	002174021	478	1/27
10	002174902	002174922	002174002	002174022	478	1/27
13	002174903	002174923	002174003	002174023	478	1/27
16	002174904	002174924	002174004	002174024	478	1/27
20	002174905	002174925	002174005	002174025	478	1/27
25	002174906	002174926	002174006	002174026	478	1/27
32	002174907	002174927	002174007	002174027	478	1/27

NEW!



Residual current circuit breaker with integral overcurrent protection LIMAT

Rated current
6 - 50 A

Rated residual current
0,03 - 0,3 A

Tipping characteristic
B, C

- Overcurrent protection (overload, short-circuit)
- Residual current protection
- Possibility of additional protections and features

Residual current circuit breaker with integral overcurrent protection LIMAT2-SD



LIMAT2-SD $I_{\Delta n} = 30 \text{ mA}$

NEW!

I_n [A]	type A		type AC		packaging [pcs]
	code No. B	code No. C	code No. B	code No. C	
6	002050100	002050110	002050600	002050610	1/16
10	002050101	002050111	002050601	002050611	1/16
13	002050102	002050112	002050602	002050612	1/16
16	002050103	002050113	002050603	002050613	1/16
20	002050104	002050114	002050604	002050614	1/16
25	002050105	002050115	002050605	002050615	1/16
32	002050106	002050116	002050606	002050616	1/16
40	002050107	002050117	002050607	002050617	1/16
50	002050108	002050118	002050608	002050618	1/16

LIMAT2-SD $I_{\Delta n} = 100 \text{ mA}$

I_n [A]	type A		type AC		packaging [pcs]
	code No. B	code No. C	code No. B	code No. C	
6	002050200	002050210	002050700	002050710	1/16
10	002050201	002050211	002050701	002050711	1/16
13	002050202	002050212	002050702	002050712	1/16
16	002050203	002050213	002050703	002050713	1/16
20	002050204	002050214	002050704	002050714	1/16
25	002050205	002050215	002050705	002050715	1/16
32	002050206	002050216	002050706	002050716	1/16
40	002050207	002050217	002050707	002050717	1/16
50	002050208	002050218	002050708	002050718	1/16

- Two protected poles (thermal and electromagnetic)
- Residual current protection
- Width of product: 4 modules

* soon available

LIMAT2-SD $I_{\Delta n} = 300 \text{ mA}$

I_n [A]	type A		type AC		packaging [pcs]
	code No. B	code No. C	code No. B	code No. C	
6	002050300	002050310	002050800	002050810	1/16
10	002050301	002050311	002050801	002050811	1/16
13	002050302	002050312	002050802	002050812	1/16
16	002050303	002050313	002050803	002050813	1/16
20	002050304	002050314	002050804	002050814	1/16
25	002050305	002050315	002050805	002050815	1/16
32	002050306	002050316	002050806	002050816	1/16
40	002050307	002050317	002050807	002050817	1/16
50	002050308	002050318	002050808	002050818	1/16

* soon available

Residual current circuit breaker with integral overcurrent protection LIMAT4-SD



LIMAT4-SD $I_{\Delta n} = 100 \text{ mA}$

I_n [A]	type A		type AC		packaging [pcs]
	code No. B	code No. C	code No. B	code No. C	
6	002054200	002054210	002054700	002054710	1/14
10	002054201	002054211	002054701	002054711	1/14
13	002054202	002054212	002054702	002054712	1/14
16	002054203	002054213	002054703	002054713	1/14
20	002054204	002054214	002054704	002054714	1/14
25	002054205	002054215	002054705	002054715	1/14
32	002054206	002054216	002054706	002054716	1/14
40	002054207	002054217	002054707	002054717	1/14
50	002054208	002054218	002054708	002054718	1/14

- Four protected poles (thermal and electromagnetic)
- Residual current protection
- Width of product: 7,5 modules

* soon available

Residual current circuit breakers with integral overcurrent protection

LIMAT4-SD $I_{\Delta n} = 300 \text{ mA}$					
I_n [A]	type A		type AC		packaging [pcs]
	code No. B	code No. C	code No. B	code No. C	
6	002054300	002054310	002054800	002054810	1/14
10	002054301	002054311	002054801	002054811	1/14
13	002054302	002054312	002054802	002054812	1/14
16	002054303	002054313	002054803	002054813	1/14
20	002054304	002054314	002054804	002054814	1/14
25	002054305	002054315	002054805	002054815	1/14
32	002054306	002054316	002054806	002054816	1/14
40	002054307	002054317	002054807	002054817	1/14
50	002054308	002054318	002054808	002054818	1/14

* soon available



Residual current circuit breaker with integral overcurrent protection LIMAT2-DN

- Two protected poles (thermal and electromagnetic)
- Residual current protection
- Overvoltage protection:
 - Tripping voltage: $270 \pm 10 \text{ V}$
 - Tripping time: $\leq 0,2 \text{ s}$
 - No tripping at $U = 300 \text{ V}$ and $t \leq 0,05 \text{ s}$
 - Tripping at $45 \pm 5 \text{ V}$ on neutral line
 - Tripping, if line and neutral conductor are changed; optical indication
 - Tripping, if neutral or earth conductor is broken; optical indication
- Width of product: 4 modules.

LIMAT2-DN $I_{\Delta n} = 30 \text{ mA}$					
I_n [A]	type A		type AC		packaging [pcs]
	code No. B	code No. C	code No. B	code No. C	
6	002052100	002052110	002052600	002052610	1/16
10	002052101	002052111	002052601	002052611	1/16
13	002052102	002052112	002052602	002052612	1/16
16	002052103	002052113	002052603	002052613	1/16
20	002052104	002052114	002052604	002052614	1/16
25	002052105	002052115	002052605	002052615	1/16
32	002052106	002052116	002052606	002052616	1/16

NEW!

* soon available

LIMAT2-DN $I_{\Delta n} = 100 \text{ mA}$					
I_n [A]	type A		type AC		packaging [pcs]
	code No. B	code No. C	code No. B	code No. C	
6	002052200	002052210	002052700	002052710	1/16
10	002052201	002052211	002052701	002052711	1/16
13	002052202	002052212	002052702	002052712	1/16
16	002052203	002052213	002052703	002052713	1/16
20	002052204	002052214	002052704	002052714	1/16
25	002052205	002052215	002052705	002052715	1/16
32	002052206	002052216	002052706	002052716	1/16
40	002052207	002052217	002052707	002052717	1/16
50	002052208	002052218	002052708	002052718	1/16

* soon available

LIMAT2-DN $I_{\Delta n} = 300 \text{ mA}$					
I_n [A]	type A		type AC		packaging [pcs]
	code No. B	code No. C	code No. B	code No. C	
6	002052300	002052310	002052800	002052810	1/16
10	002052301	002052311	002052801	002052811	1/16
13	002052302	002052312	002052802	002052812	1/16
16	002052303	002052313	002052803	002052813	1/16
20	002052304	002052314	002052804	002052814	1/16
25	002052305	002052315	002052805	002052815	1/16
32	002052306	002052316	002052806	002052816	1/16
40	002052307	002052317	002052807	002052817	1/16
50	002052308	002052318	002052808	002052818	1/16

* soon available



Residual current circuit breaker with integral overcurrent protection LIMAT4-DN

- Four protected poles (thermal and electromagnet)
- Residual current protection
- Overvoltage protection:
 - Tripping voltage: 270 ± 10 V
 - Tripping time: $\leq 0,2$ s
 - No tripping at $U = 300$ V and $t \leq 0,05$ s
 - Tripping at 45 ± 5 V on neutral line
 - Tripping, if line, and neutral conductor are changed; optical indication
 - Tripping, if neutral or earth conductor is broken; optical indication
- Width of product: 7,5 modules.



LIMAT4-DN $I_{\Delta n} = 100$ mA					
I_n [A]	type A		type AC		packaging [pcs]
	code No. B	code No. C	code No. B	code No. C	
6	002056200	002056210	002056700	002056710	1/14
10	002056201	002056211	002056701	002056711	1/14
13	002056202	002056212	002056702	002056712	1/14
16	002056203	002056213	002056703	002056713	1/14
20	002056204	002056214	002056704	002056714	1/14
25	002056205	002056215	002056705	002056715	1/14
32	002056206	002056216	002056706	002056716	1/14
40	002056207	002056217	002056707	002056717	1/14
50	002056208	002056218	002056708	002056718	1/14

* soon available



LIMAT4-DN $I_{\Delta n} = 300$ mA					
I_n [A]	type A		type AC		packaging [pcs]
	code No. B	code No. C	code No. B	code No. C	
6	002056300	002056310	002056800	002056810	1/14
10	002056301	002056311	002056801	002056811	1/14
13	002056302	002056312	002056802	002056812	1/14
16	002056303	002056313	002056803	002056813	1/14
20	002056304	002056314	002056804	002056814	1/14
25	002056305	002056315	002056805	002056815	1/14
32	002056306	002056316	002056806	002056816	1/14
40	002056307	002056317	002056807	002056817	1/14
50	002056308	002056318	002056808	002056818	1/14

* soon available

Residual current circuit breakers with integral overcurrent protection

Residual current circuit breaker with integral overcurrent protection DIFO

DIFO module is add-on element which contains residual current protection. It could be assembled with miniature circuit breaker ETIMAT 6 or ETIMAT 10 and together it is residual current operated circuit breaker with integrated overcurrent protection (RCBO). It is the product like LIMAT2-SD or LIMAT4-SD but it could be finalized or changed later on.

Add-on block for residual current protection DIFO2

DIFO2				
type	rated current [A]	code No. type A	code No. type AC	packaging [pcs]
DIFO2 30 mA	6 – 32	002058001	002058006	1/16
	40 – 50	002058201	002058206	1/16
DIFO2 100 mA	6 – 32	002058002	002058007	1/16
	40 – 50	002058202	002058207	1/16
DIFO2 300 mA	6 – 32	002058003	002058008	1/16
	40 – 50	002058203	002058208	1/16

NEW!

DIFO2 can be assembled with standard 2p and 1p+N miniature circuit breaker ETIMAT 6 and ETIMAT 10. Width of product: 2 modules.



* soon available

Add-on block for residual current protection DIFO4

DIFO4				
type	rated current [A]	code No. type A	code No. type AC	packaging [pcs]
DIFO4 30 mA	6 – 32	002058021	002058026	1/14
	40 – 50	002058221	002058226	1/14
DIFO4 100 mA	6 – 32	002058022	002058027	1/14
	40 – 50	002058222	002058227	1/14
DIFO4 300 mA	6 – 32	002058023	002058028	1/14
	40 – 50	002058223	002058228	1/14

NEW!

DIFO4 can be assembled with standard 4p or 3p+N miniature circuit breakers ETIMAT 6 and ETIMAT 10. Width of product: 3,5 modules.



* soon available

Add-on block for residual current protection DIFO2 DN

DIFO2 DN				
type	rated current [A]	code No. type A	code No. type AC	packaging [pcs]
DIFO2 DN 30 mA	6 – 32	002058301	002058306	1/16
DIFO2 DN 100 mA	6 – 32	002058302	002058307	1/16
DIFO2 DN 300 mA	6 – 32	002058303	002058308	1/16

NEW!

* soon available



Add-on block for residual current protection DIFO4 DN

DIFO4 DN				
type	rated current [A]	code No. type A	code No. type AC	packaging [pcs]
DIFO4 DN 30 mA	6 – 32	002058321	002058326	1/14
	40 – 50	002058421	002058426	1/14
DIFO4 DN 100 mA	6 – 32	002058322	002058327	1/14
	40 – 50	002058422	002058427	1/14
DIFO4 DN 300 mA	6 – 32	002058323	002058328	1/14
	40 – 50	002058423	002058428	1/14

NEW!

* soon available

