ASTI

MINIATURE CIRCUIT BREAKERS AND RESIDUAL CURRENT DEVICES

ETI POWER NEEDS CONTROL

MCBs - Miniature circuit breakers ETIMAT

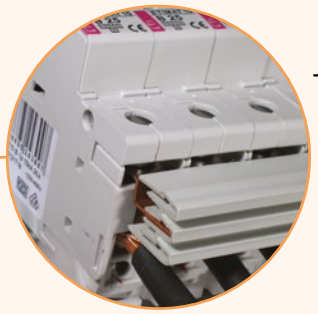
Advantages of miniature circuit breakers ETIMAT 6

→ Sealing possibility

→ "ON/OFF" mark on the switch button

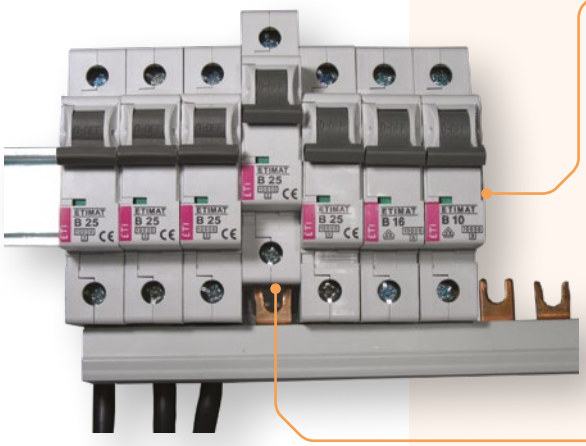
→ Option of mounting auxiliary devices (auxiliary switch, shunt trip)

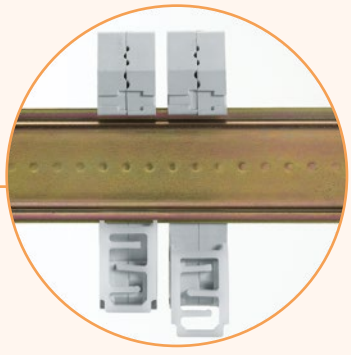
→ Better protection of terminals against touching the parts under voltage



→ Double connection possibility

→ Every product is marked with EAN Code





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

Miniature circuit breaker ETIMAT 6

Rated short-circuit capacity	Rated current	Tripping characteristic
6 kA	**0,5 - 63 A**	**B, C, D**

1-pole

I_n [A]	U_n [V]	Code No. B	Code No. C	Code No. D	Weight [g]	Packaging [pcs]
0,5	230/400	/	002141501	002161501	115	12/108
1	230/400	002111509	002141504	002161504	115	12/108
1,6	230/400	/	002141507	002161507	115	12/108
2	230/400	002111510	002141508	002161508	115	12/108
3	230/400	/	002141509	/	115	12/108
4	230/400	002111511	002141510	002161510	115	12/108
6	230/400	002111512	002141512	002161512	112	12/108
10	230/400	002111514	002141514	002161514	112	12/108
13	230/400	002111515	002141515	002161515	112	12/108
16	230/400	002111516	002141516	002161516	112	12/108
20	230/400	002111517	002141517	002161517	112	12/108
25	230/400	002111518	002141518	002161518	112	12/108
32	230/400	002111519	002141519	002161519	112	12/108
40	230/400	002111520	002141520	002161520	112	12/108
50	230/400	002111521	002141521	002161521	123	12/108
63	230/400	002111522	002141522	002161522	123	12/108

1-pole + N

I_n [A]	U_n [V]	Code No. B	Code No. C	Code No. D	Weight [g]	Packaging [pcs]
0,5	230	/	002142501	002162501	232	6/54
1	230	002112509	002142504	002162504	232	6/54
1,6	230	/	002142507	002162507	232	6/54
2	230	002112510	002142508	002162508	232	6/54
3	230	/	002142509	/	232	6/54
4	230	002112511	002142510	002162510	232	6/54
6	230	002112512	002142512	002162512	227	6/54
10	230	002112514	002142514	002162514	227	6/54
13	230	002112515	002142515	002162515	227	6/54
16	230	002112516	002142516	002162516	227	6/54
20	230	002112517	002142517	002162517	227	6/54
25	230	002112518	002142518	002162518	227	6/54
32	230	002112519	002142519	002162519	227	6/54
40	230	002112520	002142520	002162520	227	6/54
50	230	002112521	002142521	002162521	245	6/54
63	230	002112522	002142522	002162522	245	6/54

2-pole

I_n [A]	U_n [V]	Code No. B	Code No. C	Code No. D	Weight [g]	Packaging [pcs]
0,5	400	/	002143501	002163501	232	6/54
1	400	002113509	002143504	002163504	232	6/54
1,6	400	/	002143507	002163507	232	6/54
2	400	002113510	002143508	002163508	232	6/54
3	400	/	002143509	/	232	6/54
4	400	002113511	002143510	002163510	232	6/54
6	400	002113512	002143512	002163512	227	6/54
10	400	002113514	002143514	002163514	227	6/54
13	400	002113515	002143515	002163515	227	6/54
16	400	002113516	002143516	002163516	227	6/54
20	400	002113517	002143517	002163517	227	6/54
25	400	002113518	002143518	002163518	227	6/54
32	400	002113519	002143519	002163519	227	6/54
40	400	002113520	002143520	002163520	227	6/54
50	400	002113521	002143521	002163521	245	6/54
63	400	002113522	002143522	002163522	245	6/54

Technical data on page 52

3-pole

I_n [A]	U_n [V]	Code No. B	Code No. C	Code No. D	Weight [g]	Packaging [pcs]
0,5	400	/	002145501	002164501	354	4/36
1	400	002115509	002145504	002164504	354	4/36
1,6	400	/	002145507	002164507	354	4/36
2	400	002115510	002145508	002164508	354	4/36
3	400	/	002145509	/	354	4/36
4	400	002115511	002145510	002164510	354	4/36
6	400	002115512	002145512	002164512	345	4/36
10	400	002115514	002145514	002164514	345	4/36
13	400	002115515	002145515	002164515	345	4/36
16	400	002115516	002145516	002164516	345	4/36
20	400	002115517	002145517	002164517	345	4/36
25	400	002115518	002145518	002164518	345	4/36
32	400	002115519	002145519	002164519	345	4/36
40	400	002115520	002145520	002164520	345	4/36
50	400	002115521	002145521	002164521	372	4/36
63	400	002115522	002145522	002164522	372	4/36

3-pole + N

I_n [A]	U_n [V]	Code No. B	Code No. C	Code No. D	Weight [g]	Packaging [pcs]
0,5	400	/	002146501	002165501	469	3/27
1	400	002116509	002146504	002165504	469	3/27
1,6	400	/	002146507	002165507	469	3/27
2	400	002116510	002146508	002165508	469	3/27
3	400	/	002146509	/	469	3/27
4	400	002116511	002146510	002165510	469	3/27
6	400	002116512	002146512	002165512	459	3/27
10	400	002116514	002146514	002165514	459	3/27
13	400	002116515	002146515	002165515	459	3/27
16	400	002116516	002146516	002165516	459	3/27
20	400	002116517	002146517	002165517	459	3/27
25	400	002116518	002146518	002165518	459	3/27
32	400	002116519	002146519	002165519	459	3/27
40	400	002116520	002146520	002165520	459	3/27
50	400	002116521	002146521	002165521	493	3/27
63	400	002116522	002146522	002165522	493	3/27

The circuit breakers type ETIMAT 6 / 3-pole + N are suitable for use as 4-pole circuit breakers

Miniature circuit breaker ETIMAT 1N

Rated short-circuit capacity	Rated current	Tripping characteristic
6 kA	**6 - 32 A**	**B, C**

ETIMAT 1N			
I_n [A]	Code No. B	Code No. C	Packaging [pcs]
6	002191101	002191121	12/108
10	002191102	002191122	12/108
13	002191103	002191123	12/108
16	002191104	002191124	12/108
20	002191105	002191125	12/108
25	002191106	002191126	12/108
32	002191107	002191127	12/108

Description
Miniature circuit breaker ETIMAT 1N is a device with protected line pole and switched neutral pole.

Advantages:

- 1-pole+N in single housing
- Sealing possibility
- Indication of contacts' state
- New method of mounting on the DIN rail and simple replacement

Accessories for ETIMAT 6

PS ETIMAT is an auxiliary switch used for remote signalling of the MCB to which it is fixed. PS ETIMAT may also be fixed later of the state. Clamps are safe to touch. External dimensions comply with MCB, built-in width is 0,5 module (9 mm). During fitting, the MCB must be switched off.

Auxiliary switch PS ETIMAT				
Code No.	Type	contacts	Weight [g]	Packaging [pcs]
002159031	PS ETIMAT 10 - MD	NO + NC	35	1/12
002159032	PS ETIMAT 10 - M	1 x NC	30	1/12
002159033	PS ETIMAT 10 - D	1 x NO	30	1/12

DA ETIMAT shunt trip release is fixed to the right side of the miniature circuit breaker ETIMAT for remote release of the MCB. Dimensions correspond to those of MCB ETIMAT.

Shunt trip release DA ETIMAT			
	Code No.	Weight [g]	Packaging [pcs]
DA ETIMAT 10 230 V AC/DC	002159301	110	1/54
DA ETIMAT 10 48 V AC/DC	002159311	110	1/54
DA ETIMAT 10 24V AC/DC	002159312	110	1/54

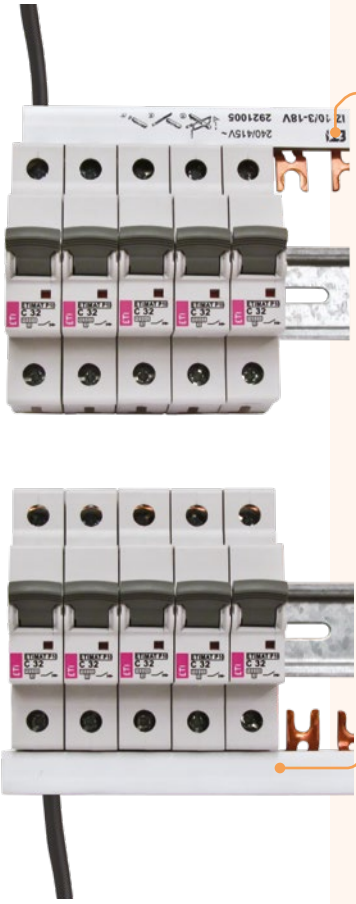
Sealing piece ETIMAT		
Code No.	Weight [g]	Packaging [pcs]
002159041	2	12

Marking cover ETIMAT	
Code No.	Packaging [pcs]
002159051	12

Technical data on page 55, 56

NEW ETIMAT P10

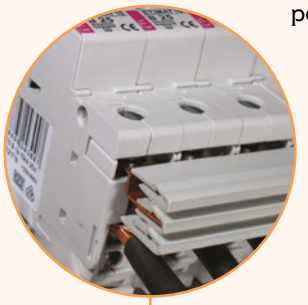
High breaking capacity MCB ETIMAT P10

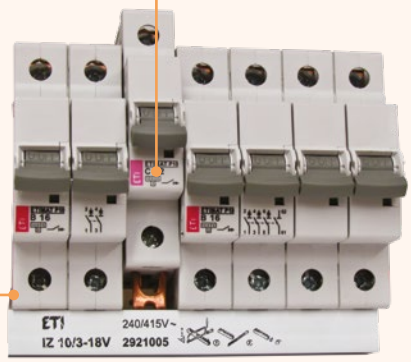


→ Supply possibility:
- top
- bottom

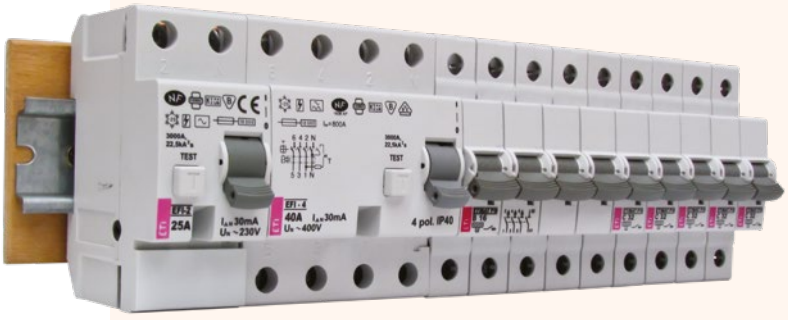
→ New method of mounting on the DIN rail and simple replacement

→ Double connection possibility





→ Every product is marked with EAN Code



→ Totally renewed, these products replace the ETIMAT 11 series and perfectly integrate with the ASTI product range, starting with identical profile which lends to a coordinated and streamlined look to the installation.

PREMIUM PERFORMANCE MCB

Product Performance & Auxiliary
Product Quality & Reliability
Power Control
Price Availability

Other features

→ Terminal cover

→ "ON/OFF" mark on the switch button

→ Sealing possibility in ON and OFF position

→ Indication of contacts' state

→ Better protection of terminals against touching the parts under voltage

→ Locking device

ETIMAT RC - Remote control

ETIMAT RC is a miniature circuit breaker with remote control mechanism. ETIMAT RC provides following advantages:

- remote switching with simultaneous protection
- minimal space requirement
- straightforward actuation
- can be used as actuator in any installation bus system
- secure against remote activation after manual switch-of and/or being tripped by overcurrent
- control coil protected against thermal overload
- easy installation assured by rapid fastening method
- visual status display : red/ON, green/OFF
- sealable control lever
- capability of adding an auxiliary switch

Technical Data:

- the remote control mechanism, which serves to actuate ETIMAT RC is connected to MCB ETIMAT 11 by the factory before dispatch
- the remote control mechanism is activated electromagnetically by the application of a control voltage acc. to following data:
- rated voltage: 230V a.c.
- exciting current: approx 1.5A, duration min 20msek
- No. of operations: 20.000 , max 4 per minute

Miniature circuit breaker ETIMAT P10

Rated short-circuit capacity	Rated current	Tripping characteristic
10 kA	**0,5 - 63 A**	**B, C, D, K, Z**

1-pole

I_n [A]	U_n [V]	Code No. B	Code No. C	Code No. D	Code No. K	Code No. Z	Weight [g]	Packaging [pcs]
0,5	230/400	/	270501104	270502105	270503106	270504107	124	12/60
1	230/400	270100101	270101102	270102103	270103104	270104105	124	12/60
2	230/400	270200104	270201105	270202106	270203107	270204108	124	12/60
3	230/400	270300107	270301108	270302109	270303100	270304101	124	12/60
4	230/400	270400100	270401101	270402102	270403103	270404104	124	12/60
6	230/400	270600106	270601107	270602108	270603109	270604100	124	12/60
10	230/400	271000109	271001100	271002101	271003102	271004103	121	12/60
13	230/400	271300108	271301109	271302100	271303101	271304102	121	12/60
16	230/400	271600107	271601108	271602109	271603100	271604101	121	12/60
20	230/400	272000100	272001101	272002102	272003103	272004104	121	12/60
25	230/400	272500105	272501106	272502107	272503108	272504109	121	12/60
32	230/400	273200107	273201108	273202109	273203100	273204101	121	12/60
40	230/400	274000102	274001103	/	/	/	130	12/60
50	230/400	275000103	275001104	/	/	/	130	12/60
63	230/400	276300103	276301104	/	/	/	130	12/60

1-pole + N

I_n [A]	U_n [V]	Code No. B	Code No. C	Code No. D	Code No. K	Code No. Z	Weight [g]	Packaging [pcs]
0,5	230	/	270511101	270512102	270513103	270514104	249	6/30
1	230	270110108	270111109	270112100	270113101	270114102	249	6/30
2	230	270210101	270211102	270212103	270213104	270214105	249	6/30
3	230	270310104	270311105	270312106	270313107	270314108	249	6/30
4	230	270410107	270411108	270412109	270413100	270414101	249	6/30
6	230	270610103	270611104	270612105	270613106	270614107	249	6/30
10	230	271010106	271011107	271012108	271013109	271014100	245	6/30
13	230	271310105	271311106	271312107	271313108	271314109	245	6/30
16	230	271610104	271611105	271612106	271613107	271614108	245	6/30
20	230	272010107	272011108	272012109	272013100	272014101	245	6/30
25	230	272510102	272511103	272512104	272513105	272514106	245	6/30
32	230	273210104	273211105	273212106	273213107	273214108	245	6/30
40	230	274010109	274011100	/	/	/	261	6/30
50	230	275010100	275011101	/	/	/	261	6/30
63	230	276310100	276311101	/	/	/	261	6/30

2-pole

I_n [A]	U_n [V]	Code No. B	Code No. C	Code No. D	Code No. K	Code No. Z	Weight [g]	Packaging [pcs]
0,5	400	/	270521108	270522109	270523100	270524101	249	6/30
1	400	270120105	270121106	270122107	270123108	270124109	249	6/30
2	400	270220108	270221109	270222100	270223101	270224102	249	6/30
3	400	270320101	270321102	270322103	270323104	270324105	249	6/30
4	400	270420104	270421105	270422106	270423107	270424108	249	6/30
6	400	270620100	270621101	270622102	270623103	270624104	249	6/30
10	400	271020103	271021104	271022105	271023106	271024107	245	6/30
13	400	271320102	271321103	271322104	271323105	271324106	245	6/30
16	400	271620101	271621102	271622103	271623104	271624105	245	6/30
20	400	272020104	272021105	272022106	272023107	272024108	245	6/30
25	400	272520109	272521100	272522101	272523102	272524103	245	6/30
32	400	273220101	273221102	273222103	273223104	273214108	245	6/30
40	400	274020106	274021107	/	/	/	261	6/30
50	400	275020107	275021108	/	/	/	261	6/30
63	400	276320107	276321108	/	/	/	261	6/30

Miniature circuit breakers

3-pole

I_n [A]	U_n [V]	Code No. B	Code No. C	Code No. D	Code No. K	Code No. Z	Weight [g]	Packaging [pcs]
0,5	400	/	270531105	270532106	270533107	270534108	377	4/20
1	400	270130102	270131103	270132104	270133105	270134106	377	4/20
2	400	270230105	270231106	270232107	270233108	270234109	377	4/20
3	400	270330108	270331109	270332100	270333101	270334102	377	4/20
4	400	270430101	270431102	270432103	270433104	270434105	377	4/20
6	400	270630107	270631108	270632109	270633100	270634101	377	4/20
10	400	271030100	271031101	271032102	271033103	271034104	367	4/20
13	400	271330109	271331100	271332101	271333102	271334103	367	4/20
16	400	271630108	271631109	271632100	271633101	271634102	367	4/20
20	400	272030101	272031102	272032103	272033104	272034105	367	4/20
25	400	272530106	272531107	272532108	272533109	272534100	367	4/20
32	400	273230108	273231109	273232100	273233101	273234102	367	4/20
40	400	274030103	274031104	/	/	/	393	4/20
50	400	275030104	275031105	/	/	/	393	4/20
63	400	276330104	276331105	/	/	/	393	4/20

The circuit breakers type ETIMAT P10 / 3-pole + N are suitable for use as 4-pole circuit breakers

3-pole + N

I_n [A]	U_n [V]	Code No. B	Code No. C	Code No. D	Code No. K	Code No. Z	Weight [g]	Packaging [pcs]
0,5	400	/	270541102	270542103	270543104	270544105	500	3/15
1	400	270140109	270141100	270142101	270143102	270144103	500	3/15
2	400	270240102	270241103	270242104	270243105	270244106	500	3/15
3	400	270340105	270341106	270342107	270343108	270344109	500	3/15
4	400	270440108	270441109	270442100	270443101	270444102	500	3/15
6	400	270640104	270641105	270642106	270643107	270644108	500	3/15
10	400	271040107	271041108	271042109	271043100	271044101	488	3/15
13	400	271340106	271341107	271342108	271343109	271344100	488	3/15
16	400	271640105	271641106	271642107	271643108	271644109	488	3/15
20	400	272040108	272041109	272042100	272043101	272044102	488	3/15
25	400	272540103	272541104	272542105	272543106	272544107	488	3/15
32	400	273240105	273241106	273242107	273243108	273244109	488	3/15
40	400	274040100	274041101	/	/	/	524	3/15
50	400	275040101	275041102	/	/	/	524	3/15
63	400	276340101	276341102	/	/	/	524	3/15

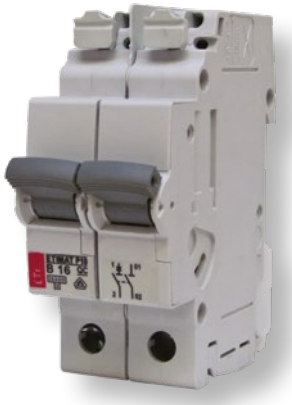
Miniature circuit breaker ETIMAT P10-QC (Quick Connect)

Rated short-circuit capacity	Rated current	Tripping characteristic
10 kA	**0,5 - 20 A**	**B, C, D, K**

1-pole

I_n [A]	U_n [V]	Code No. B	Code No. C	Code No. D	Code No. K	Weight [g]	Packaging [pcs]
0,5	230/400	/	290501108	290502109	290503100	124	12/60
1	230/400	/	290101106	290102107	290103108	124	12/60
2	230/400	/	290201109	290202100	290203101	124	12/60
4	230/400	/	290401105	290402106	290403107	124	12/60
6	230/400	290600100	290601101	290602102	290603103	124	12/60
10	230/400	291000103	291001104	291002105	291003106	121	12/60
13	230/400	291300102	291301103	291302104	291303105	121	12/60
16	230/400	291600101	291601102	291602103	291603104	121	12/60
20	230/400	292000104	292001105	292002106	292003107	121	12/60

Technical data on page 60

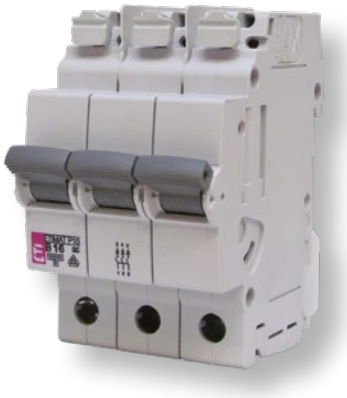


1-pole + N

I_n [A]	U_n [V]	Code No. B	Code No. C	Code No. D	Code No. K	Weight [g]	Packaging [pcs]
0,5	230	/	290511105	290512106	290513107	249	6/30
1	230	/	290111103	290112104	290113105	249	6/30
2	230	/	290211106	290212107	290213108	249	6/30
4	230	/	290411102	290412103	290413104	249	6/30
6	230	290610107	290611108	290612109	290613100	249	6/30
10	230	291010100	291011101	291012102	291013103	245	6/30
13	230	291310109	291311100	291312101	291313102	245	6/30
16	230	291610108	291611109	291612100	291613101	245	6/30
20	230	292010101	292011102	292012103	292013104	245	6/30

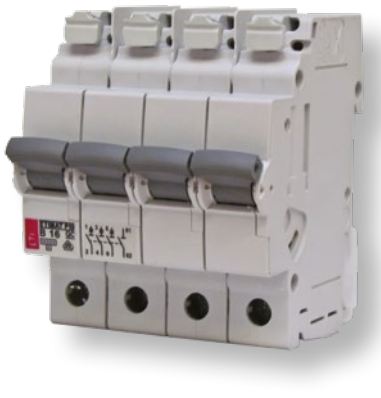
2-pole

I_n [A]	U_n [V]	Code No. B	Code No. C	Code No. D	Code No. K	Weight [g]	Packaging [pcs]
0,5	400	/	290521102	290522103	290523104	249	6/30
1	400	/	290121100	290122101	290123102	249	6/30
2	400	/	290221103	290222104	290223105	249	6/30
4	400	/	290421109	290422100	290423101	249	6/30
6	400	290620104	290621105	290622106	290623107	249	6/30
10	400	291020107	291021108	291022109	291023100	245	6/30
13	400	291320106	291321107	291322108	291323109	245	6/30
16	400	291620105	291621106	291622107	291623108	245	6/30
20	400	292020108	292021109	292022100	292023101	245	6/30



3-pole

I_n [A]	U_n [V]	Code No. B	Code No. C	Code No. D	Code No. K	Weight [g]	Packaging [pcs]
0,5	400	/	290531109	290532100	290533101	377	4/20
1	400	/	290131107	290132108	290133109	377	4/20
2	400	/	290231100	290232101	290233102	377	4/20
4	400	/	290431106	290432107	290433108	377	4/20
6	400	290630101	290631102	290632103	290633104	377	4/20
10	400	291030104	291031105	291032106	291033107	367	4/20
13	400	291330103	291331104	291332105	291333106	367	4/20
16	400	291630102	291631103	291632104	291633105	367	4/20
20	400	292030105	292031106	292032107	292033108	367	4/20



3-pole + N

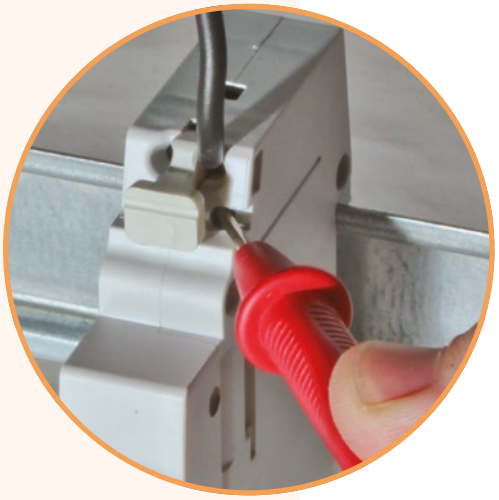
I_n [A]	U_n [V]	Code No. B	Code No. C	Code No. D	Code No. K	Weight [g]	Packaging [pcs]
0,5	400	/	290541106	290542107	290543108	500	3/15
1	400	/	290141104	290142105	290143106	500	3/15
2	400	/	290241107	290242108	290243109	500	3/15
4	400	/	290441103	290442104	290443105	500	3/15
6	400	290640108	290641109	290642100	290643101	500	3/15
10	400	291040101	291041102	291042103	291043104	488	3/15
13	400	291340100	291341101	291342102	291343103	488	3/15
16	400	291640109	291641100	291642101	291643102	488	3/15
20	400	292040102	292041103	292042104	292043105	488	3/15

ETIMAT P10 QC - Quick connect

Use rigid, solid or flexible wire
with cross section from 1,5 to 4 mm^2

Connecting the wire

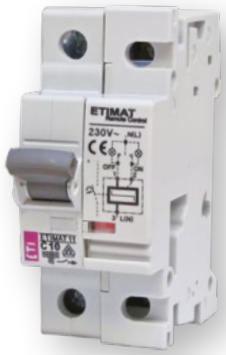
Disconnecting the wire
- press the button



Voltage test

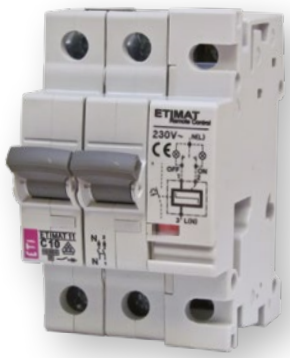
Miniature circuit breaker ETIMAT RC (remote control)

Rated short-circuit capacity	Rated current	Tripping characteristics
10 kA	**6 - 63 A**	**B, C**



1-pole

I_n [A]	U_n [V]	Code No. B	Code No. C	Weight [g]	Packaging [pcs]
6	230/400	630600100	630601101	124	3/30
10	230/400	631000103	631001104	121	3/30
13	230/400	631300102	631301103	121	3/30
16	230/400	631600101	631601102	121	3/30
20	230/400	632000104	632001105	121	3/30
25	230/400	632500109	632501100	121	3/30
32	230/400	633200101	633201102	121	3/30
40	230/400	634000106	634001107	130	3/30
50	230/400	635000107	635001108	130	3/30
63	230/400	636300107	636301108	130	3/30

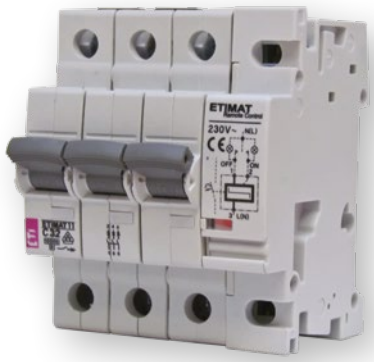


1-pole + N

I_n [A]	U_n [V]	Code No. B	Code No. C	Weight [g]	Packaging [pcs]
6	230	630610107	630611108	249	2/20
10	230	631010100	631011101	245	2/20
13	230	631310109	631311100	245	2/20
16	230	631610108	631611109	245	2/20
20	230	632010101	632011102	245	2/20
25	230	632510106	632511107	245	2/20
32	230	633210108	633211109	245	2/20
40	230	634010102	634011103	261	2/20
50	230	635010103	635011104	261	2/20
63	230	636310103	636311104	261	2/20

2-pole

I_n [A]	U_n [V]	Code No. B	Code No. C	Weight [g]	Packaging [pcs]
6	400	630620104	630621105	249	2/20
10	400	631020107	631021108	245	2/20
13	400	631320106	631321107	245	2/20
16	400	631620105	631621106	245	2/20
20	400	632020108	632021109	245	2/20
25	400	632520103	632521104	245	2/20
32	400	633220105	633221106	245	2/20
40	400	634020100	634021101	261	2/20
50	400	635020101	635021102	261	2/20
63	400	636320101	636321102	261	2/20

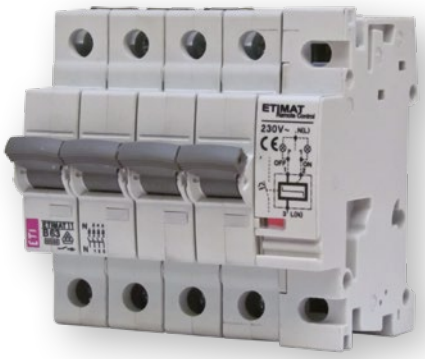


3-pole

I_n [A]	U_n [V]	Code No. B	Code No. C	Weight [g]	Packaging [pcs]
6	400	630630101	630631102	377	1/10
10	400	631030104	631031105	367	1/10
13	400	631330103	631331104	367	1/10
16	400	631630102	631631103	367	1/10
20	400	632030105	632031106	367	1/10
25	400	632530100	632531101	367	1/10
32	400	633230102	633231103	367	1/10
40	400	634030107	634031108	393	1/10
50	400	635030108	635031109	393	1/10
63	400	636330108	636331109	393	1/10

3-pole + N

I_n [A]	U_n [V]	Code No. B	Code No. C	Weight [g]	Packaging [pcs]
6	400	630640108	630641109	500	1/10
10	400	631040101	631041102	488	1/10
13	400	631340100	631341101	488	1/10
16	400	631640109	631641100	488	1/10
20	400	632040102	632041103	488	1/10
25	400	632540107	632541108	488	1/10
32	400	633240109	633241100	488	1/10
40	400	634040104	634041105	524	1/10
50	400	635040105	635041106	524	1/10
63	400	636340105	636341106	524	1/10



Miniature circuit breaker ETIMAT P10-DC

Rated short-circuit capacity	Rated current	Tripping characteristic
10 kA	**0,5 - 63 A**	**B, C, K, Z**

Application: Miniature circuit breakers ETIMAT DC are used for protection of conductors in direct current electric circuits. 1-pole circuit breakers are used for voltages up to 220 V d.c., while 2-pole circuit breakers with poles connected in a series are used for higher voltages (up to 440 V d.c.). When connecting the MCB ETIMAT DC , attention must be paid to polarity as connected in a wrong way the MCB can be destroyed. Note that two 1-pole MCBs cannot be used instead of one 2-pole MCB.

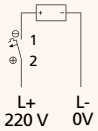
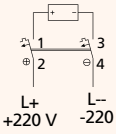
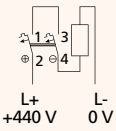
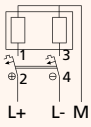
1-pole

I_n [A]	U_n [V]	Code No. B	Code No. C	Code No. K	Code No. Z	Weight [g]	Packaging [pcs]
0,5	220	/	260501107	260503109	260504100	124	12/60
1	220	/	260101105	260103107	260104108	124	12/60
2	220	260200107	260201108	260203100	260204101	124	12/60
3	220	260300100	260301101	260303103	260304104	124	12/60
4	220	260400103	260401104	260403106	260404107	124	12/60
6	220	260600109	260601100	260603102	260604103	124	12/60
10	220	261000102	261001103	261003105	261004106	121	12/60
13	220	261300101	261301102	261303104	261304105	121	12/60
16	220	261600100	261601101	261603103	261604104	121	12/60
20	220	262000103	262001104	262003106	262004107	121	12/60
25	220	262500108	262501109	262503101	262504102	121	12/60
32	220	263200100	263201101	263203103	263204104	121	12/60
40	220	264000105	264001106	/	/	130	12/60
50	220	265000106	265001107	/	/	130	12/60
63	220	266300106	266301107	/	/	130	12/60

2-pole

I_n [A]	U_n [V]	Code No. B	Code No. C	Code No. K	Code No. Z	Weight [g]	Packaging [pcs]
0,5	440	/	260521101	260523103	260524104	249	6/30
1	440	/	260121109	260123101	260124102	249	6/30
2	440	260220101	260221102	260223104	260224105	249	6/30
3	440	260320104	260321105	260323107	260324108	249	6/30
4	440	260420107	260421108	260423100	260424101	249	6/30
6	440	260620103	260621104	260623106	260624107	249	6/30
10	440	261020106	261021107	261023109	261024100	245	6/30
13	440	261320105	261321106	261323108	261324109	245	6/30
16	440	261620104	261621105	261623107	261624108	245	6/30
20	440	262020107	262021108	262023100	262024101	245	6/30
25	440	262520102	262521103	262523105	262524106	245	6/30
32	440	263220104	263221105	263223107	263224108	245	6/30
40	440	264020109	264021100	/	/	261	6/30
50	440	265020100	265021101	/	/	261	6/30
63	440	266320100	266321101	/	/	261	6/30

Technical data on page 62

Connecting diagrams in direct current electric circuits				
Rated voltage of circuit breaker	220 V ⎓	220/440 V ⎓	220/440 V ⎓	220/440 V ⎓
Voltage between conductors - max.	220 V ⎓	440 V ⎓	440 V ⎓	440 V ⎓
Voltage between conductor and earth - max.	220 V ⎓	220 V ⎓	440 V ⎓	220 V ⎓
Circuit breaker	1-pole	2-pole	2-pole	2-pole
Connecting diagram				

Accessories for ETIMAT P10 and ETIMAT P10-DC

ETIMAT terminal cover		
Code No.	Weight [g]	Packaging [pcs]
002159011	2	12

Locking device		
Code No.	Weight [g]	Packaging [pcs]
761900104	3	1/1

PS/SS ETIMAT P10 is an auxiliary / signal switch used for remote signalling of the MCB to which it is fixed on the left side.
PS/SS ETIMAT P10 may also be fixed later of the state. Clamps are safe to touch. External dimensions comply with MCB, built-in width is 0,5 module (9 mm). During fitting, the MCB must be switched off. Up to two PS/SS can be fitted to ETIMAT P10, with special connection springs.

Auxiliary / signal switch PS/SS ETIMAT P10				
Type	Code No.	contacts	Weight [g]	Packaging [pcs]
PS/SS ETIMAT P10	002159505	1xNC, 1xNC/NO	53	1/12

Connecting clip for 2xPS/SS			
Type	Code No.	Weight [g]	Packaging [pcs]
ETIMAT P10 2xPS/SS	027324022	3,7	10

DA ETIMAT P10 shunt trip release is fixed to the right side of the miniature circuit breaker ETIMAT P10 for remote release of the MCB. Dimensions correspond to those of MCB ETIMAT P10.

Shunt trip release DA ETIMAT P10			
Type	Code No.	Weight [g]	Packaging [pcs]
DA ETIMAT P10 12-60V AC/DC	770620105	110	1/54
DA ETIMAT P10 110-250V AC/DC	772520104	110	1/54

Miniature circuit breaker ETIMAT10 80 -125A

Rated short-circuit capacity	Rated current	Tripping characteristics
15, 20 kA	**80 - 125 A**	**B, C, D**

1-pole

I_n [A]	Code No. B	Code No. C	Code No. D	Weight [g]	Packaging [pcs]
80	002121731	002131731	002151731	231	2/72
100	002121732	002131732	002151732	231	2/72
125	002121733	002131733		231	2/72

2-pole

I_n [A]	Code No. B	Code No. C	Code No. D	Weight [g]	Packaging [pcs]
80	002123731	002133731	002153731	466	1/36
100	002123732	002133732	002153732	466	1/36
125	002123733	002133733		466	1/36

3-pole

I_n [A]	Code No. B	Code No. C	Code No. D	Weight [g]	Packaging [pcs]
80	002125731	002135731	002155731	696	1/18
100	002125732	002135732	002155732	696	1/18
125	002125733	002135733		696	1/18

3-pole + N

I_n [A]	Code No. B	Code No. C	Code No. D	Weight [g]	Packaging [pcs]
80	002126731	002136731	002156731	860	1/14
100	002126732	002136732	002156732	860	1/14
125	002126733	002136733		860	1/14

4-pole

I_n [A]	Code No. B	Code No. C	Code No. D	Weight [g]	Packaging [pcs]
80	002127731	002137731	-	930	1/14
100	002127732	002137732	-	930	1/14
125	002127733	002137733	-	930	1/14

Technical data on page 64

Accessories for ETIMAT10 80 - 125A

Shunt trip release DA ETIMAT 80/125

Type	Code No.	Weight [g]	Packaging [pcs]
DA ETIMAT 80/125 12-60V AC/DC	002159320	173	1/54
DA ETIMAT 80/125 110-415V	002159321	173	1/54

Auxiliary switch PSM 80/125

Code No.	Weight [g]	Packaging [pcs]
002159121	62	1/12

RCCBs - Residual current circuit breakers EFI

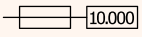
Residual current circuit breakers can be used in TN-S, TN-CS, TT and IT network systems, or with other words, in all systems where neutral and protective conductors are separated. Residual current circuit breakers EFI are used for protection against indirect contact (fault protection) and direct contact (additional protection) of parts under voltage. In the case of protection against indirect contact (fault protection) you can use residual current protective devices with a rated residual current of $I_{\Delta n} \leq 300mA$. Residual current protective devices with a rated residual current of $I_{\Delta n} \leq 30mA$ fulfil the conditions for protection against direct contact (additional protection). For protection against fire, according to DIN VDE 0100-482 and IEC 60364-4-482, all cables and conductors in TN and TT systems must be protected by means of residual current protective devices with rated residual current of $I_{\Delta n} \leq 300mA$. In applications where resistive faults can cause a fire (radiant ceiling heating with panel heating elements), the rated residual current must be $I_{\Delta n} = 30mA$.

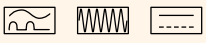
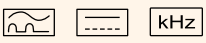
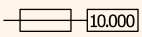
Types

- AC Type: they are sensitive to alternating (sinusoidal) AC residual currents.
- A Type: they are sensitive to alternating (sinusoidal) AC residual currents and pulsating DC residual currents.
- B Type: they are sensitive to alternating (sinusoidal) AC residual currents, pulsating DC residual currents and smooth DC residual currents. Tripping values are defined up to 1kHz.
- B+ Type: they are sensitive to alternating (sinusoidal) AC residual currents, pulsating DC residual currents and smooth DC residual currents. Tripping values are defined up to 20kHz and they are below 420mA.

Classification regarding break time

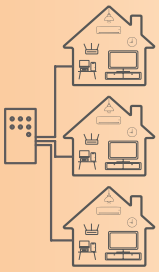
- Instantaneous: max. break time 40ms (Inst.)
- G/KV-Short time delay: time delayed min. 10ms and max. 40ms (G/KV)
- S-Selective: time delayed min. 40ms and max. 150ms (S)

EFI 2 (2M)		Type AC	Type A		
		Inst.	Inst.	G/KV	S
	For alternating residual current	✓	✓	✓	✓
	For alternating and pulsating direct residual current		✓	✓	✓
	Short-circuit capacity with back-up fuse	✓	✓	✓	✓
	Lower temperature limit of application -25°C	✓	✓	✓	✓
	VDE 0664, part 1 (up to 80 A)		✓		✓
	Short time delayed (10 - 40 ms)			✓	
	Selective (time delayed 40 -150 ms)				✓

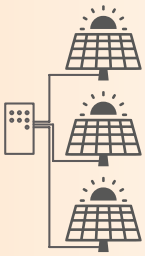
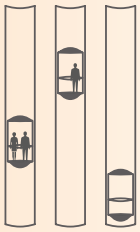
EFI 4 (4M)		Type AC	Type A			Type B			Type B+		
		Inst.	Inst.	G/KV	S	Inst.	G/KV	S	Inst.	G/KV	S
	For alternating residual current	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	For alternating and pulsating direct residual current		✓	✓	✓	✓	✓	✓	✓	✓	✓
	For alternating, pulsating direct and smooth DC residual current (up to 1kHz)					✓	✓	✓	✓	✓	✓
	For alternating, pulsating direct and smooth DC residual current (up to 20kHz)								✓	✓	✓
	Short-circuit capacity with back-up fuse	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Lower temperature limit of application -25°C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	VDE 0664, part 1 (up to 80 A)		✓		✓	✓		✓	✓		✓
	Short time delayed (10 - 40 ms)			✓			✓			✓	
	Selective (time delayed 40 -150 ms)				✓			✓			✓

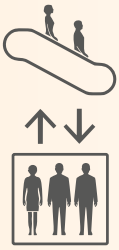
Simple household installations without electronic components	Household installations with electronic components (LCD TV, computers, printers, wash machines, …)	Surge current proof 3kA (8/20µs). High immunity against unwanted tripping. For S: ensuring selectivity in case of serially connected RCD's	Installations where 3f frequency converters and speed regulated machines are used (elevators, cranes). PV systems on a.c. side, Charging stations for electric vehicles, UPS, computer data centres, X-ray devices	Surge current proof 3kA (8/20µs) High immunity against unwanted tripping. For S: ensuring selectivity in case of serially connected RCD's	Requirement for increased fire protection according to VDE 0664-400







AC type - Instantaneous
2p / 4p
I_n = 25, 32, 40, 63, 80, 100 A
$I_{\Delta n}$ = 30, 100, 300, 500 mA

A type - Instantaneous
2p / 4p
I_n = 25, 40, 63, 80, 100 A
$I_{\Delta n}$ = 30, 100, 300, 500 mA

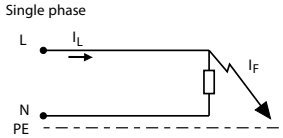
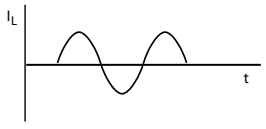
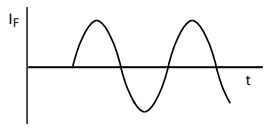
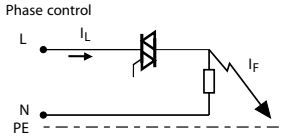
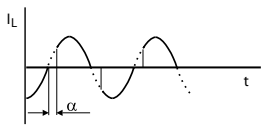
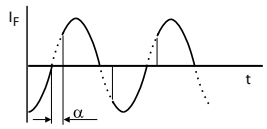
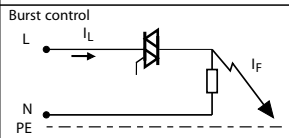
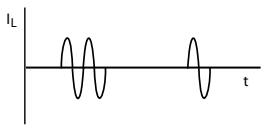
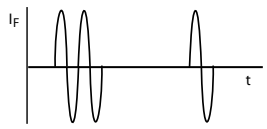
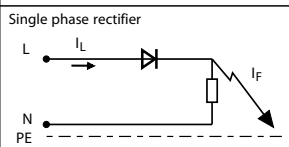
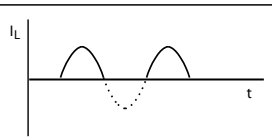
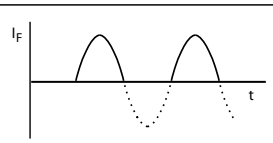
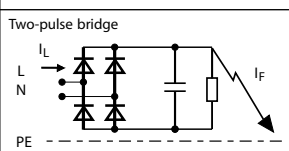
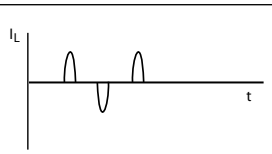
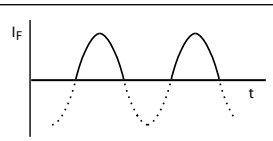
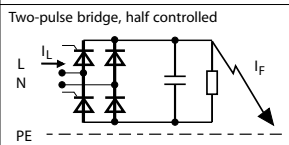
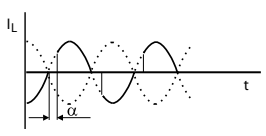
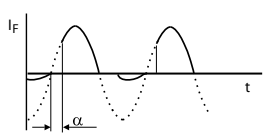
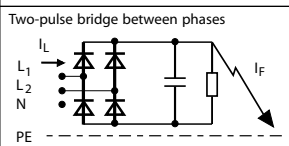
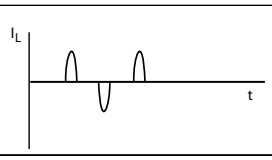
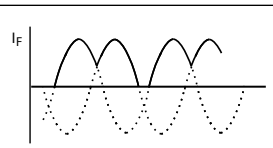
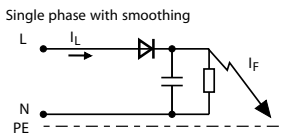
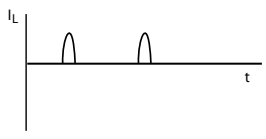
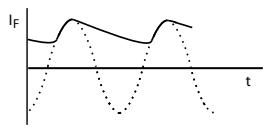
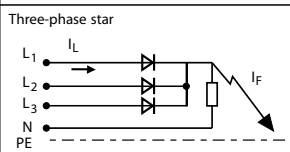
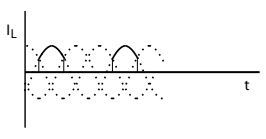
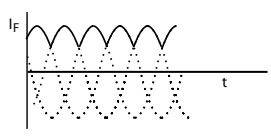
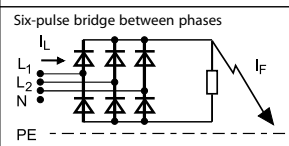
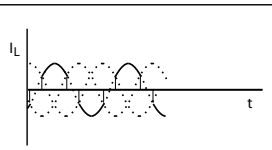
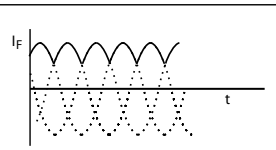
A type - **G/KV** (short-time delay: time delayed min. 10ms and max. 40ms) & **S** (selective: time delayed min. 40ms and max. 150ms)
2p / 4p
I_n = 25, 40, 63, 80, 100 A
$I_{\Delta n}$ = 100, 300 mA

B type – Instantaneous (Tripping values are defined up to 1kHz)
4p
I_n = 25, 40, 63 A
$I_{\Delta n}$ = 30, 100, 300 mA

B type - **G/KV** (short-time delay: time delayed min. 10ms and max. 40ms) & **S** (selective: time delayed min. 40ms and max. 150ms)
4p
I_n = 25, 40, 63A
$I_{\Delta n}$ = 100, 300 mA

B+ type – Instantaneous (Tripping values are defined up to 20kHz and they are below 420mA) according to VDE 0664-400
4p
I_n = 25, 40, 63 A
$I_{\Delta n}$ = 30, 100, 300 mA

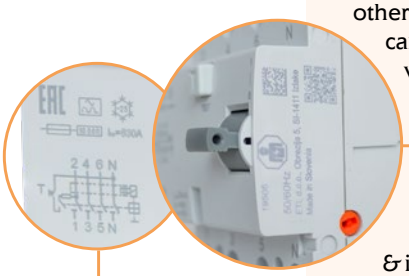
Use of AC, A, and B type of RCCB's in case of different fault conditions

	Connection	Normal mains current	Fault earth current	AC	A	B, B+
1	Single phase 			✓	✓	✓
2	Phase control 			✓	✓	✓
3	Burst control 			✓	✓	✓
4	Single phase rectifier 				✓	✓
5	Two-pulse bridge 				✓	✓
6	Two-pulse bridge, half controlled 				✓	✓
7	Two-pulse bridge between phases 				✓	✓
8	Single phase with smoothing 					✓
9	Three-phase star 					✓
10	Six-pulse bridge between phases 					✓

NEW EFI - P

Features of residual current circuit breakers EFI-P

→ Individual test measurements and other production data for each device can be read from the QR code, as well as instruction manuals and other technical materials



→ All necessary technical & installation information can be found on the front and side of the device

→ Power dissipation per pole reduced by up to 45%

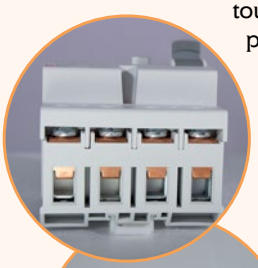
→ High mechanical endurance: > 10.000 cycles

→ High electrical endurance: > 4.000 cycles

→ Basic installation requirements are engraved into housing

→ All important components are marked with a QR code, containing individual test results and thus ensuring exact traceability and highest quality control

→ Better protection of terminals against touching the parts under voltage



→ Patented two-step mechanism for max reliability of operation

→ The terminals accept not only wires but also time saving busbars

→ RCCBs can be supplied with single phase and three phase busbars

→ Supply is possible both from top and bottom terminals

→ Dimensionally the same as old EFI, making replacement effortless

→ Special versions available:
- RCCB for use in 110, 125 &127 V systems
- RCCB with neutral pole on the left side

→ Fully automated assembly line, enabling more intermediate measurements during asssembly process to ensure best functionality of final product

→ Due to dimensional and construction similarity, all EFI accessories can also be used with EFI-P

→ Improved housing attachment with sealed screws

→ Data matrix code

→ Rated conditional short-circuit current: 10 kA

→ Test button enables user to check residual functionality

→ Real contact position indication for easier identification, whether RCCB is in ON or OFF position

→ Reset version: in case of differential current, the button moves to the “trip” (middle) position. In case of manual turn off, the button moves to the “off” (lowest) position.

→ Clearly marked terminals to ensure appropriate connection

A and AC type residual current circuit breaker EFI-P2(R) & EFI-2

Rated residual current	Rated current	Type
0,03 - 0,5 A	**16 - 100 A**	**A, AC**

16 - 80 A

100 A

EFI-P2 Instantaneous, EFI-P2R Instantaneous

I_n [A]	$I_{\Delta n}$ [A]	Number of poles	Type A				Type AC	Weight [g]	Packaging [pcs]
				Reset**	127V***	NL****			
16	0,03	2	002061110	002061460	002061350	002061410	002061210	175	1/54
25	0,03	2	002061111	002061461	002061351	002061411	002061211	175	1/54
40	0,03	2	002061112	002061462	002061352	002061412	002061212	175	1/54
63	0,03	2	002061113	002061463	002061353	002061413	002061213	190	1/54
80	0,03	2	002061114	002061464	002061354	002061414	002061214	190	1/54
100	0,03	2	002062530*	-	-	-	002062531*	244	1/54
16	0,1	2	002061120	002061470	002061360	002061420	002061220	175	1/54
25	0,1	2	002061121	002061471	002061361	002061421	002061221	175	1/54
40	0,1	2	002061122	002061472	002061362	002061422	002061222	175	1/54
63	0,1	2	002061123	002061473	002061363	002061423	002061223	190	1/54
80	0,1	2	002061124	002061474	002061364	002061424	002061224	190	1/54
100	0,1	2	002062532*	-	-	-	002062533*	230	1/54
16	0,3	2	002061130	002061480	002061370	002061430	002061230	175	1/54
25	0,3	2	002061131	002061481	002061371	002061431	002061231	175	1/54
40	0,3	2	002061132	002061482	002061372	002061432	002061232	175	1/54
63	0,3	2	002061133	002061483	002061373	002061433	002061233	190	1/54
80	0,3	2	002061134	002061484	002061374	002061434	002061234	190	1/54
100	0,3	2	002062534*	-	-	-	002062535*	230	1/54
16	0,5	2	002061140	002061490	-	-	002061240	175	1/54
25	0,5	2	002061141	002061491	-	-	002061241	175	1/54
40	0,5	2	002061142	002061492	-	-	002061242	175	1/54
63	0,5	2	002061143	002061493	-	-	002061243	190	1/54
80	0,5	2	002061144	002061494	-	-	002061244	190	1/54

* Old version (EFI-2)

** Reset version: in case of differential current, the button moves to the "trip" (middle) position. In case of manual turn off, the button moves to the "off" (lowest) position.

*** For use in in lower than standard system voltage (for instance 110V, 125V or 127V) system

**** Version with N-pole on the left side

G/KV

S

EFI-2 Short time delay & Selective

I_n [A]	$I_{\Delta n}$ [A]	Number of poles	Type A		Weight [g]	Packaging [pcs]
			G/KV-Short time delay	S-Selective		
25	0,03	2	002062727	-	197	1/54
40	0,03	2	002062728	-	197	1/54
63	0,03	2	002062729	-	206	1/54
25	0,1	2	002063727	002063732	193	1/54
40	0,1	2	002063728	002063733	193	1/54
63	0,1	2	002063729	002063734	196	1/54
100	0,1	2	-	002062501	230	1/54
25	0,3	2	002064727	002064732	198	1/54
40	0,3	2	002064728	002064733	198	1/54
63	0,3	2	002064729	002064734	204	1/54
100	0,3	2	-	002062502	230	1/54

A and AC type residual current circuit breaker EFI-P4(R) & EFI-4

Rated residual current	Rated current	Type
0,03 - 0,5 A	**16 - 100 A**	**A, AC**

EFI-P4 Instantaneous, EFI-P4R Instantaneous

I_n [A]	$I_{\Delta n}$ [A]	Number of poles	Type A				Type AC	Weight [g]	Packaging [pcs]
				Reset**	127V***	NL****			
16	0,03	4	002061510	002061860	002061750	002061810	002061610	300	1/27
25	0,03	4	002061511	002061861	002061751	002061811	002061611	300	1/27
40	0,03	4	002061512	002061862	002061752	002061812	002061612	300	1/27
63	0,03	4	002061513	002061863	002061753	002061813	002061613	330	1/27
80	0,03	4	002062545*	-	-	-	002062145*	380	1/27
100	0,03	4	002062150*	-	-	-	002062151*	244	1/54
16	0,1	4	002061520	002061870	002061760	002061820	002061620	300	1/27
25	0,1	4	002061521	002061871	002061761	002061821	002061621	300	1/27
40	0,1	4	002061522	002061872	002061762	002061822	002061622	300	1/27
63	0,1	4	002061523	002061873	002061763	002061823	002061623	330	1/27
80	0,1	4	002063545*	-	-	-	002063145*	380	1/27
100	0,1	4	002062152*	-	-	-	002062153*	230	1/54
16	0,3	4	002061530	002061880	002061770	002061830	002061630	300	1/27
25	0,3	4	002061531	002061881	002061771	002061831	002061631	300	1/27
40	0,3	4	002061532	002061882	002061772	002061832	002061632	300	1/27
63	0,3	4	002061533	002061883	002061773	002061833	002061633	330	1/27
80	0,3	4	002064545*	-	-	-	002064145*	380	1/27
100	0,3	4	002062154*	-	-	-	002062155*	230	1/54
16	0,5	4	002061540	002061890	-	-	002061640	300	1/27
25	0,5	4	002061541	002061891	-	-	002061641	300	1/27
40	0,5	4	002061542	002061892	-	-	002061642	300	1/27
63	0,5	4	002061543	002061893	-	-	002061643	330	1/27
80	0,5	4	002065545*	-	-	-	002065145*	380	1/27

* Old version (EFI-4)

** Reset version: in case of differential current, the button moves to the "trip" (middle) position. In case of manual turn off, the button moves to the "off" (lowest) position.

*** For use in in lower than standard system voltage (for instance 110V, 125V or 127V) system

**** Version with N-pole on the left side

16 - 63 A

100 A

EFI-4 Short time delay & Selective

I_n [A]	$I_{\Delta n}$ [A]	Number of poles	Type A		Weight [g]	Packaging [pcs]
			G/KV-Short time delay	S-Selective		
25	0,03	4	002062747	-	328	1/27
40	0,03	4	002062748	-	328	1/27
63	0,03	4	002062749	-	350	1/27
25	0,1	4	002063747	002063752	320	1/27
40	0,1	4	002063748	002063753	320	1/27
63	0,1	4	002063749	002063754	338	1/27
100	0,1	4	-	002062503	407	1/27
25	0,3	4	002064747	002064752	320	1/27
40	0,3	4	002064748	002064753	320	1/27
63	0,3	4	002064749	002064754	338	1/27
100	0,3	4	-	002062504	372	1/27

G/KV

S

NEW EFI B and B+ type

Features and advantages of UNIVERSAL CURRENT SENSITIVE RCCBs B type and B+ type

APPLICATION
- Fault protection (protection against indirect contact of live parts)
- Additional protection (protection in case of direct contact of live parts, IΔn≤30mA)
- Fire Protection (for locations exposed to fire hazard)

Residual current sensitivity – UNIVERSAL

AC pure sinus residual current, 50/60Hz
A sinus and pulsating direct current, 50/60Hz
B AC + A + smooth direct current + high frequency (1kHz)
B+ AC + A + smooth direct current + high frequency (20kHz)

Basic types

according to rated values:

4p B In = 25A, 40A, 63A, IΔn=30mA, 100mA, 300mA
4p B+ In = 25A, 40A, 63A, IΔn=30mA, 100mA, 300mA

according to breaking times:

4p B, B+ instantaneous, short time delayed (G/KV), selective (S)

according to the number of poles:

4p, 2p

Standards

IEC/EN 61008-1	basic standard for RCCB's AC and A type
IEC/EN 62423	additional requirements for type B
VDE 0664-400 B+	VDE standard for B+ requirements (20kHz)

Mode of operation

Pure a.c. and pulsating d.c. type residual current sensitivity, A voltage independent

Smooth d.c. current sensitivity:	B, B+ voltage dependent
Minimum operating voltage:	50V

Typical applications

Which are vulnerable to smooth d.c. residual currents:
- Frequency converters,
- Photovoltaic systems, a.c side,
- Charging stations for electric vehicles,
- Variable speed machine tools,
- UPS, computer data centres
- Elevator controls,
- Cranes of all kinds
- Electronic equipment on construction sites,
- Test set-ups in laboratories,
- Installation in general where we can expect d.c. smooth direct residual currents, etc.

B type residual current circuit breaker EFI-4 B Instantaneous

Rated residual current	Rated current	Type
0,03 - 0,3 A	**25 - 63 A**	**B (Instantaneous)**

EFI-4 B Instantaneous

I_n [A]	$I_{\Delta n}$ [A]	Number of poles	Code No	Weight [g]	Packaging [pcs]
25	0,03	4	002062642	335	1/27
40	0,03	4	002062643	335	1/27
63	0,03	4	002062644	340	1/27
25	0,1	4	002063642	335	1/27
40	0,1	4	002063643	335	1/27
63	0,1	4	002063644	340	1/27
25	0,3	4	002064642	335	1/27
40	0,3	4	002064643	335	1/27
63	0,3	4	002064644	340	1/27

B+ type residual current circuit breaker EFI-4 B+ Instantaneous

Rated residual current	Rated current	Type
0,03 - 0,3 A	**25 - 63 A**	**B+ (Instantaneous)**

EFI-4 B+ Instantaneous

I_n [A]	$I_{\Delta n}$ [A]	Number of poles	Code No	Weight [g]	Packaging [pcs]
25	0,03	4	002062647	335	1/27
40	0,03	4	002062648	335	1/27
63	0,03	4	002062649	340	1/27
25	0,1	4	002063647	335	1/27
40	0,1	4	002063648	335	1/27
63	0,1	4	002063649	340	1/27
25	0,3	4	002064647	335	1/27
40	0,3	4	002064648	335	1/27
63	0,3	4	002064649	340	1/27

B type residual current circuit breaker EFI-4 B G/KV-Short time delay

Rated residual current	Rated current	Type
0,03 - 0,3 A	**25 - 63 A**	**B (G/KV-Short time delay)**

EFI-4 B G/KV-Short time delay

I_n [A]	$I_{\Delta n}$ [A]	Number of poles	Code No	Weight [g]	Packaging [pcs]
25	0,03	4	002062652	340	1/27
40	0,03	4	002062653	340	1/27
63	0,03	4	002062654	345	1/27
25	0,1	4	002063652	340	1/27
40	0,1	4	002063653	340	1/27
63	0,1	4	002063654	345	1/27
25	0,3	4	002064652	340	1/27
40	0,3	4	002064653	340	1/27
63	0,3	4	002064654	345	1/27

Technical data on page 71

B type residual current circuit breaker EFI-4 B S-Selective

Rated residual current	Rated current	Type
0,1 - 0,3 A	**25 - 63 A**	**B (S-Selective)**

EFI-4 B S-Selective					
I_n [A]	$I_{\Delta n}$ [A]	Number of poles	Code No	Weight [g]	Packaging [pcs]
25	0,1	4	002063662	340	1/27
40	0,1	4	002063663	340	1/27
63	0,1	4	002063664	345	1/27
25	0,3	4	002064662	335	1/27
40	0,3	4	002064663	335	1/27
63	0,3	4	002064664	340	1/27

Accessories for residual current circuit breakers EFI (16 - 80 A)

The PS EFI is fixed to EFI series switches. The width of the device is 9 mm, other dimensions are in compliance with EFI switches. The auxiliary switch PS EFI is used for the remote signalling of the state of contact's condition (closed/open) of EFI switches. During fitting, the EFI must be switched off. PS EFI and DA EFI can not be mounted both together, because both can only be mounted on the right side of EFI.

Auxiliary Switch PS EFI				
Type	Contact	Code No.	Weight [g]	Packaging [pcs]
PS EFI - MD	b-contact/a-contact	002069001	50	1/12
PS EFI - 2M	2 x b-contact	002069002	50	1/12
PS EFI - 2D	2 x a-contact	002069003	50	1/12

a - contact = make contact (NO)
b - contact = break contact (NC)

Sealing piece EFI-2		
Code No.	Weight [g]	Packaging [pcs]
002069011	2	2

Sealing piece EFI-4		
Code No.	Weight [g]	Packaging [pcs]
002069012	3	2

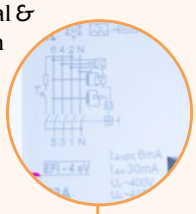
Shunt trip release DA EFI			
Type	Code No.	Weight [g]	Packaging [pcs]
DA EFI	002069004	45	1/12

NEW EFI eV

Features and advantages of Residual Current Circuit Breakers for Protection of EV Charging Stations EFI eV

→ Meets requirements from standard IEC 60364-7-722 --> Low-Voltage electrical Installations - Requirements for special installations or locations - Supplies for electric vehicles

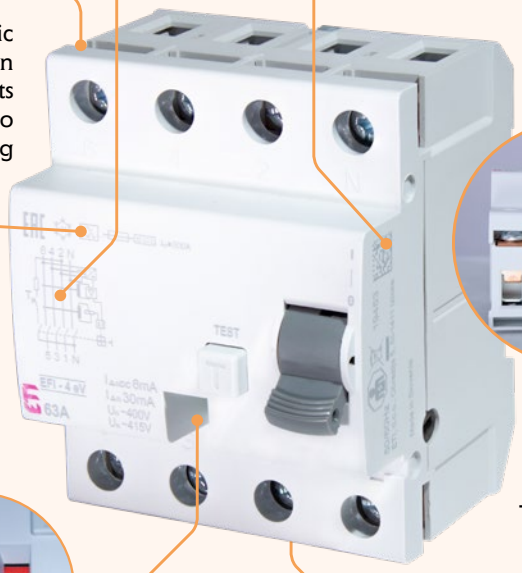
→ All necessary technical & installation information can be found on the front and side of the device



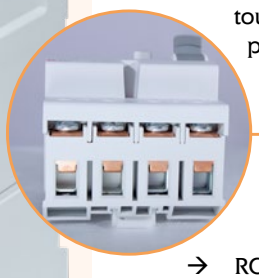
→ Individual test measurements and other production data for each device can be read from the QR code, as well as instruction manuals and other technical materials

→ detects smooth DC residual currents above 6 mA

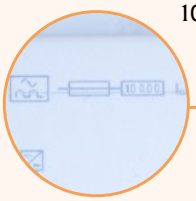
→ Basic installation requirements are engraved into housing



→ Better protection of terminals against touching the parts under voltage



→ Rated conditional short-circuit current: 10 kA



→ RCCBs can be supplied with single phase and three phase busbars

→ Supply is possible both from top and bottom terminals

→ Clearly marked terminals to ensure appropriate connection

→ Real contact position indication for easier identification, whether RCCB is in ON or OFF position

Residual Current Circuit Breakers for Protection of EV Charging Stations EFI eV

Rated residual current	Rated current	Type
0,03 A	**25 - 63 A**	**A**

EFI eV

I_n [A]	$I_{\Delta n}$ [A]	Number of poles	Type A	Weight [g]	Packaging [pcs]
25	0,03	4	002062632	328	1/27
40	0,03	4	002062633	328	1/27
63	0,03	4	002062634	328	1/27

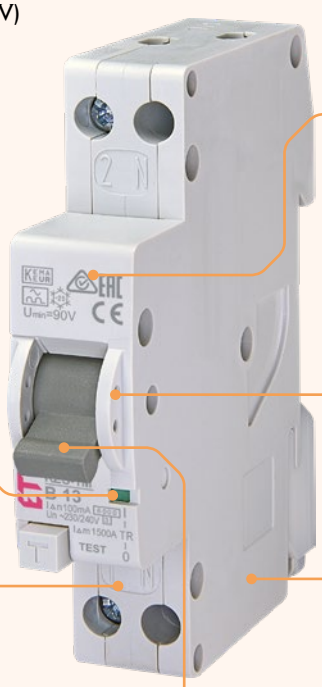
Technical data on page 74

RCBOs - Residual current circuit breakers with integral overcurrent protection KZS

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

→ Combining the features of miniature circuit breaker and a residual current circuit breaker, functionally dependent on line voltage (minimum supply voltage 90V)

→ Version with operating temperature down to -350 C also available



→ Real contact position indication for easier identification, whether RCBO is in ON or OFF position

→ Added protection against any pulsating DC component that can be generated from electrical appliances

→ Energy limiting class 3: highest energy limiting performance for optimal protection of cable insulation and maximally reducing risk of fire and other damage

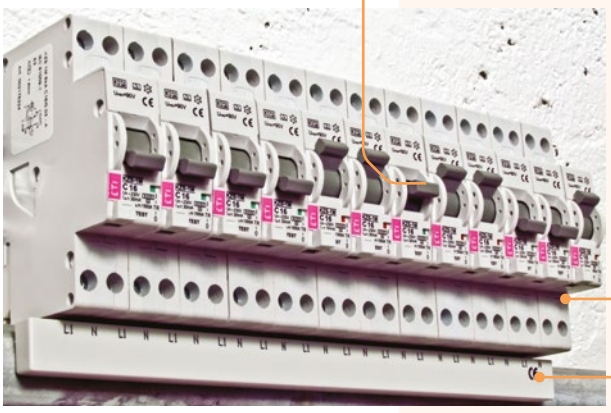
→ Sealing possibility

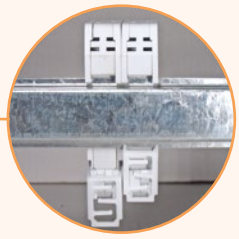
→ 1-module housing (18 mm), with switched neutral line

→ All necessary technical and installation information can be found on the front and side of the device

→ Clearly marked terminals to ensure appropriate connection

→ In case of overcurrent or differential current, the button moves to the “trip” (middle) position. In case of manual turn off, the button moves to the “off” (lowest) position.





→ The terminals accept not only wires but also time saving busbars

→ Advanced method of mounting enables an easy removal of single RCBO without disconnecting other units from the busbar

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

Rated short-circuit capacity	Rated current	Tripping characteristic	Rated residual current
6 kA	**6 -25 A**	**B, C**	**0,01 - 0,03 - 0,1 A**

**Recommended for use in installations with high level of additional protection required (bathrooms, hospitals, kindergartens etc).
Used for fault and additional protection.**

KZS - 1M (Supply from the bottom)

I_n [A]	$I_{\Delta n}$ [A]	Type A		Type AC		Weight [g]	Packaging [pcs]
		Code No. B	Code No. C	Code No. B	Code No. C		
6	0,01	002175411	002175421	002175611	002175621	115	12/72
10	0,01	002175412	002175422	002175612	002175622		
13	0,01	002175413	002175423	002175613	002175623		
16	0,01	002175414	002175424	002175614	002175624		
20	0,01	002175415	002175425	002175615	002175625		
25	0,01	002175416	002175426	002175616	002175626		
6	0,03	002175201	002175221	-	-	115	12/72
10	0,03	002175202	002175222	-	-		
13	0,03	002175203	002175223	-	-		
16	0,03	002175204	002175224	-	-		
20	0,03	002175205	002175225	-	-		
25	0,03	002175206	002175226	-	-		
6	0,1	002175431	002175441	002175631	002175681	115	12/72
10	0,1	002175432	002175442	002175632	002175682		
13	0,1	002175433	002175443	002175633	002175683		
16	0,1	002175434	002175444	002175634	002175684		
20	0,1	002175435	002175445	002175635	002175685		
25	0,1	002175436	002175446	002175636	002175686		

KZS - 1M LT (Supply from the bottom)

I_n [A]	$I_{\Delta n}$ [A]	Type A		Weight [g]	Packaging [pcs]
		Code No. B	Code No. C		
6	0,03	002175291	002175301	115	12/72
10	0,03	002175292	002175302	115	12/72
13	0,03	002175293	002175303	115	12/72
16	0,03	002175294	002175304	115	12/72
20	0,03	002175295	002175305	115	12/72
25	0,03	002175296	002175306	115	12/72

LT- suitable for temperatures down to -35°C

Description - KZS -1M is a residual current circuit breaker with integral over-current protection, functionally dependent on line voltage.

KZS - 1M SUP (Supply from the top)

I_n [A]	$I_{\Delta n}$ [A]	Type A		Weight [g]	Packaging [pcs]
		Code No. B	Code No. C		
6	0,01	002175811	002175851	115	12/72
10	0,01	002175812	002175852		
13	0,01	002175813	002175853		
16	0,01	002175814	002175854		
20	0,01	002175815	002175855		
25	0,01	002175816	002175856		
6	0,03	002175701	002175721	115	12/72
10	0,03	002175702	002175722		
13	0,03	002175703	002175723		
16	0,03	002175704	002175724		
20	0,03	002175705	002175725		
25	0,03	002175706	002175726		
6	0,1	002175831	002175871	115	12/72
10	0,1	002175832	002175872		
13	0,1	002175833	002175873		
16	0,1	002175834	002175874		
20	0,1	002175835	002175875		
25	0,1	002175836	002175876		

Description:
KZS -1M DN is a residual current circuit breaker with integral overcurrent protection and added overvoltage protection according to EN 50550.
The device is functionally dependent on line voltage and operates at voltages above 90V.
KZS 1M-DN also has a sealing possibility.

KZS - 1M DN					
I_n	$I_{\Delta n}$	Type A		Weight	Packaging
[A]	[A]	Code No. B	Code No. C	[g]	[pcs]
6	0,03	002175141	002175151	115	12/72
10	0,03	002175142	002175152	115	12/72
13	0,03	002175143	002175153	115	12/72
16	0,03	002175144	002175154	115	12/72
20	0,03	002175145	002175155	115	12/72
25	0,03	002175146	002175156	115	12/72

Description:
KZS -1M FN is a residual current circuit breaker with integral overcurrent protection, functionally dependent on line voltage.
It comes in a single pole version that switches the phase pole while the neutral pole stays fixed.
KZS 1M-FN is dependent on voltage and operates at voltages above 85V.
KZS 1M-FN also has a sealing possibility.

KZS - 1M FN $I_{\Delta n}$ = 30 mA							
I_n	$I_{\Delta n}$	Type A		Type AC		Weight	Packaging
[A]	[A]	Code No. B	Code No. C	Code No. B	Code No. C	[g]	[pcs]
6	230	002175581	002175591	002175501	002175521	168	1/42
10	230	002175582	002175592	002175502	002175522	168	1/42
13	230	002175583	002175593	002175503	002175523	168	1/42
16	230	002175584	002175594	002175504	002175524	168	1/42
20	230	002175585	002175595	002175505	002175525	170	1/42
25	230	002175586	002175596	002175506	002175526	170	1/42
32	230	002175587	002175597	002175507	002175527	180	1/42
40	230	002175588	002175598	002175508	002175528	205	1/42
45	230	002175589	002175599	002175509	002175529	205	1/42

KZS - 1M FN $I_{\Delta n}$ = 100 mA							
I_n	$I_{\Delta n}$	Type A		Type AC		Weight	Packaging
[A]	[A]	Code No. B	Code No. C	Code No. B	Code No. C	[g]	[pcs]
6	230	002175781	002175791	002175511	002175531	168	1/42
10	230	002175782	002175792	002175512	002175532	168	1/42
13	230	002175783	002175793	002175513	002175533	168	1/42
16	230	002175784	002175794	002175514	002175534	168	1/42
20	230	002175785	002175795	002175515	002175535	170	1/42
25	230	002175786	002175796	002175516	002175536	170	1/42
32	230	002175787	002175797	002175517	002175537	180	1/42
40	230	002175788	002175798	002175518	002175538	205	1/42
45	230	002175789	002175799	002175519	002175539	205	1/42

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

Rated short-circuit capacity	Rated current	Tripping characteristic	Rated residual current
10 kA	**6 - 40 A**	**B, C**	**0,01 - 0,5 A**

Description: KZS (KZS-2M, 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 $I_{\Delta n}$ = 10 mA

I_n [A]	Type A		Weight	Packaging
	Code No. B	Code No. C	[g]	[pcs]
6	002173211	002173231	225	1/54
10	002173212	002173232	225	1/54
13	002173213	002173233	225	1/54
16	002173214	002173234	225	1/54
20	002173215	002173235	225	1/54
25	002173216	002173236	225	1/54
32	002173217	002173237	225	1/54
40	002173218	002173238	225	1/54

KZS-2M $I_{\Delta n}$ = 30 mA

I_n [A]	Type A		Type AC		Weight	Packaging
	Code No. B	Code No. C	Code No. B	Code No. C	[g]	[pcs]
6	002173201	002173221	002173101	002173121	225	1/54
10	002173202	002173222	002173102	002173122	225	1/54
13	002173203	002173223	002173103	002173123	225	1/54
16	002173204	002173224	002173104	002173124	225	1/54
20	002173205	002173225	002173105	002173125	225	1/54
25	002173206	002173226	002173106	002173126	225	1/54
32	002173207	002173227	002173107	002173127	225	1/54
40	002173208	002173228	002173108	002173128	225	1/54

KZS-2M $I_{\Delta n}$ = 100 mA

I_n [A]	Type A		Weight	Packaging
	Code No. B	Code No. C	[g]	[pcs]
6	002173701	002173721	225	1/54
10	002173702	002173722	225	1/54
13	002173703	002173723	225	1/54
16	002173704	002173724	225	1/54
20	002173705	002173725	225	1/54
25	002173706	002173726	225	1/54
32	002173707	002173727	225	1/54
40	002173708	002173728	225	1/54

KZS-2M $I_{\Delta n}$ = 300 mA

I_n [A]	Type A		Type AC		Weight	Packaging
	Code No. B	Code No. C	Code No. B	Code No. C	[g]	[pcs]
6	002173401	002173421	002173301	002173321	225	1/54
10	002173402	002173422	002173302	002173322	225	1/54
13	002173403	002173423	002173303	002173323	225	1/54
16	002173404	002173424	002173304	002173324	225	1/54
20	002173405	002173425	002173305	002173325	225	1/54
25	002173406	002173426	002173306	002173326	225	1/54
32	002173407	002173427	002173307	002173327	225	1/54
40	002173408	002173428	002173308	002173328	225	1/54

KZS-2M $I_{\Delta n}$ = 500 mA				
I_n [A]	Type A		Weight [g]	Packaging [pcs]
	Code No. B	Code No. C		
6	002173901	002173921	225	1/54
10	002173902	002173922	225	1/54
13	002173903	002173923	225	1/54
16	002173904	002173924	225	1/54
20	002173905	002173925	225	1/54
25	002173906	002173926	225	1/54
32	002173907	002173927	225	1/54
40	002173908	002173928	225	1/54

KZS-2M G/KV $I_{\Delta n}$ = 30 mA				
I_n [A]	Type A		Weight [g]	Packaging [pcs]
	Code No. B	Code No. C		
6	002174101	002174121	225	1/54
10	002174102	002174122	225	1/54
13	002174103	002174123	225	1/54
16	002174104	002174124	225	1/54
20	002174105	002174125	225	1/54
25	002174106	002174126	225	1/54
32	002174107	002174127	225	1/54
40	002174108	002174128	225	1/54

Residual current circuit breaker with integral overcurrent protection KZS-R

Rated short-circuit capacity	Rated current	Tripping characteristic	Rated residual current
10 kA	**6 - 32 A**	**B, C**	**0,01-0,03 A**

In case of overcurrent or differential current, the button moves to the “trip” (middle) position. In case of manual turn off, the button moves to the “off” (lowest) position.

KZS-R					
I_n [A]	$I_{\Delta n}$ [A]	Type A		Weight [g]	Packaging [pcs]
		Code No. B	Code No. C		
6	0,01	740610107	740611108	290	1/10
10	0,01	741010100	741011101	290	1/10
13	0,01	741310109	741311100	290	1/10
16	0,01	741610108	741611109	290	1/10
6	0,03	740615102	740616103	290	1/10
10	0,03	741015105	741016106	290	1/10
13	0,03	741315104	741316105	290	1/10
16	0,03	741615103	741616104	290	1/10
20	0,03	742015106	742016107	290	1/10
25	0,03	742515101	742516102	290	1/10
32	0,03	743215103	743216104	290	1/10

Auxiliary switch PS/SS KZS-R				
Type	Code No.	contacts	Weight [g]	Packaging [pcs]
PS/SS KZS-R	769900102	1xNC, 1xNC/NO	40	1/10

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

Rated short-circuit capacity	Rated current	Tripping characteristic	Rated residual current
10 kA	**6 - 25 A**	**B, C**	**0,03 A**

KZS-2M 2p $I_{\Delta n}$ = 30 mA

I_n [A]	Type A Code No. B	Type A Code No. C	Weight [g]	Packaging [pcs]
6	002172501	002172521	210	1/54
10	002172502	002172522	210	1/54
13	002172503	002172523	210	1/54
15	002172504	002172524	210	1/54
16	002172505	002172525	210	1/54
20	002172506	002172526	210	1/54
25	002172507	002172527	210	1/54

KZS-2M 2p $I_{\Delta n}$ = 100 mA

I_n [A]	Type A Code No. B	Type A Code No. C	Weight [g]	Packaging [pcs]
6	002172471	002172481	210	1/54
10	002172472	002172482	210	1/54
13	002172473	002172483	210	1/54
15	002172474	002172484	210	1/54
16	002172475	002172485	210	1/54
20	002172476	002172486	210	1/54
25	002172477	002172487	210	1/54

Residual current circuit breaker with integral overcurrent protection with LED status signalisation KZS 2M2p EDI

Rated short-circuit capacity	Rated current	Tripping characteristic	Rated residual current
10 kA	**6 - 25 A**	**B, C**	**0,03 A**

KZS-2M 2p EDI $I_{\Delta n}$ = 30 mA

I_n [A]	Type A Code No. B	Type A Code No. C	Weight [g]	Packaging [pcs]
6	002172401	002172411	205	1/54
10	002172402	002172412	205	1/54
13	002172403	002172413	205	1/54
15	002172404	002172414	205	1/54
16	002172406	002172416	205	1/54
20	002172407	002172417	205	1/54
25	002172408	002172418	205	1/54

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

Rated short-circuit capacity	Rated current	Tripping characteristic	Rated residual current
10 kA	**6 - 32 A**	**B, C**	**0,03 A - 0,5 A**

KZS-4M 3p $I_{\Delta n}$ = 30 mA

I_n	Type A		Type AC		Weight	Packaging
[A]	Code No. B	Code No. C	Code No. B	Code No. C	[g]	[pcs]
6	002174701	002174721	002174801	002174821	482	1/27
10	002174702	002174722	002174802	002174822	482	1/27
13	002174703	002174723	002174803	002174823	482	1/27
16	002174704	002174724	002174804	002174824	482	1/27
20	002174705	002174725	002174805	002174825	482	1/27
25	002174706	002174726	002174806	002174826	482	1/27
32	002174707	002174727	002174807	002174827	482	1/27

KZS-4M 3p $I_{\Delta n}$ = 100 mA

I_n	Type A		Weight	Packaging
[A]	Code No. B	Code No. C	[g]	[pcs]
6	002173001	002173021	482	1/27
10	002173002	002173022	482	1/27
13	002173003	002173023	482	1/27
16	002173004	002173024	482	1/27
20	002173005	002173025	482	1/27
25	002173006	002173026	482	1/27
32	002173007	002173027	482	1/27

KZS-4M 3p $I_{\Delta n}$ = 300 mA

I_n	Type A		Weight	Packaging
[A]	Code No. B	Code No. C	[g]	[pcs]
6	002174201	002174221	482	1/27
10	002174202	002174222	482	1/27
13	002174203	002174223	482	1/27
16	002174204	002174224	482	1/27
20	002174205	002174225	482	1/27
25	002174206	002174226	482	1/27
32	002174207	002174227	482	1/27

KZS-4M 3p $I_{\Delta n}$ = 500 mA

I_n	Type A		Weight	Packaging
[A]	Code No. B	Code No. C	[g]	[pcs]
6	002174301	002174321	482	1/27
10	002174302	002174322	482	1/27
13	002174303	002174323	482	1/27
16	002174304	002174324	482	1/27
20	002174305	002174325	482	1/27
25	002174306	002174326	482	1/27
32	002174307	002174327	482	1/27

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

Rated short-circuit capacity	Rated current	Tripping characteristic	Rated residual current
6 kA	**6 - 32 A**	**B, C**	**0,03 A - 0,5 A**

KZS-4M 3p+N $I_{\Delta n}$ = 30 mA

I_n	Type A		Type AC		Weight	Packaging
[A]	Code No. B	Code No. C	Code No. B	Code No. C	[g]	[pcs]
6	002174901	002174921	002174001	002174021	515	1/27
10	002174902	002174922	002174002	002174022	515	1/27
13	002174903	002174923	002174003	002174023	515	1/27
16	002174904	002174924	002174004	002174024	515	1/27
20	002174905	002174925	002174005	002174025	515	1/27
25	002174906	002174926	002174006	002174026	515	1/27
32	002174907	002174927	002174007	002174027	515	1/27

KZS-4M 3p+N $I_{\Delta n}$ = 100 mA

I_n	Type A		Weight	Packaging
[A]	Code No. B	Code No. C	[g]	[pcs]
6	002174401	002174421	515	1/27
10	002174402	002174422	515	1/27
13	002174403	002174423	515	1/27
16	002174404	002174424	515	1/27
20	002174405	002174425	515	1/27
25	002174406	002174426	515	1/27
32	002174407	002174427	515	1/27

KZS-4M 3p+N $I_{\Delta n}$ = 300 mA

I_n	Type A		Weight	Packaging
[A]	Code No. B	Code No. C	[g]	[pcs]
6	002174501	002174521	515	1/27
10	002174502	002174522	515	1/27
13	002174503	002174523	515	1/27
16	002174504	002174524	515	1/27
20	002174505	002174525	515	1/27
25	002174506	002174526	515	1/27
32	002174507	002174527	515	1/27

KZS-4M 3p+N $I_{\Delta n}$ = 500 mA

I_n	Type A		Weight	Packaging
[A]	Code No. B	Code No. C	[g]	[pcs]
6	002174601	002174621	515	1/27
10	002174602	002174622	515	1/27
13	002174603	002174623	515	1/27
16	002174604	002174624	515	1/27
20	002174605	002174625	515	1/27
25	002174606	002174626	515	1/27
32	002174607	002174627	515	1/27

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Accessories for KZS

PS KZS-2M/4M is an auxiliary switch used for remote signalling of the RCBO to which it is fixed on the right side. PS KZS-2M/4M may also be fixed later of the state. Clamps are safe to touch. External dimensions comply with RCBO, built-in width is 0,5 module (9 mm). During fitting, the RCBO must be switched off.
The auxiliary switch can be used in combination with RCBOs manufactured after 1. 10. 2018. The production date is visible on the bottom of the product or above the test button. The number must be greater than 18401.

Auxiliary switch PS KZS-2M/4M

Type	Code No.	contacts	Weight [g]	Packaging [pcs]
PS KZS-2M/4M	002159500	1xNC, 1xNC/NO	53	1/12

Residual current circuit breaker with integral overcurrent protection KZS-4M 2p B

Rated short-circuit capacity	Rated current	Tripping characteristic	Rated residual current
10 kA	**6 - 40 A**	**B, C**	**0,03 A - 0,3 A**

KZS-4M 2p B $I_{\Delta n}$ = 30 mA

I_n [A]	Code No. B	Code No. C	Weight [g]	Packaging [pcs]
6	002174511	002174531	369	1/27
10	002174512	002174532	369	1/27
13	002174513	002174533	369	1/27
16	002174514	002174534	369	1/27
20	002174515	002174535	369	1/27
25	002174516	002174536	369	1/27
32	002174517	002174537	369	1/27
40	002174518	002174538	390	1/27

KZS-4M 2p B $I_{\Delta n}$ = 100 mA

I_n [A]	Code No. B	Code No. C	Weight [g]	Packaging [pcs]
6	002174611	002174631	369	1/27
10	002174612	002174632	369	1/27
13	002174613	002174633	369	1/27
16	002174614	002174634	369	1/27
20	002174615	002174635	369	1/27
25	002174616	002174636	369	1/27
32	002174617	002174637	369	1/27
40	002174618	002174638	390	1/27

KZS-4M 2p B $I_{\Delta n}$ = 300 mA

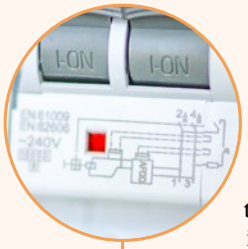
I_n [A]	Code No. B	Code No. C	Weight [g]	Packaging [pcs]
6	002174811	002174831	369	1/27
10	002174812	002174832	369	1/27
13	002174813	002174833	369	1/27
16	002174814	002174834	369	1/27
20	002174815	002174835	369	1/27
25	002174816	002174836	369	1/27
32	002174817	002174837	369	1/27
40	002174818	002174838	390	1/27

NEW Series of AFDD

Features and advantages of Arc Fault Detection Devices AFDD

→ Complete protection: MCB, RCCB and AFDD in one device

→ Supply is possible both from top and bottom terminals



→ All necessary technical & installation information can be found on the front of the device

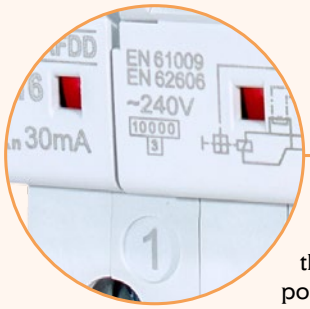
→ Test button enables user to check residual functionality

→ LED indication of various types of fault (see table)

→ Rated short circuit capacity: 10 kA

→ Overcurrent and short circuit protection of both poles

→ Better protection of terminals against touching the parts under voltage



→ Real contact position indication for easier identification, whether the device is in ON or OFF position

→ Clearly marked terminals to ensure appropriate connection

→ High mechanical endurance: 20.000 cycles

→ High electrical endurance: 10.000 cycles

Arc Fault Detection Device AFDD

Rated short-circuit capacity	Rated current	Tripping characteristic	Rated residual current
10 kA	**6 - 32 A**	**B, C**	**0,03 A**

AFDD

I_n [A]	$I_{\Delta n}$ [A]	Number of poles	Type A Code No. B	Type A Code No. C	Weight [g]	Packaging [pcs]
6	0,03	2	002173811	002173871	377	1/33
10	0,03	2	002173812	002173872	377	1/33
13	0,03	2	002173813	002173873	377	1/33
15	0,03	2	002173819	002173879	377	1/33
16	0,03	2	002173814	002173874	377	1/33
20	0,03	2	002173815	002173875	377	1/33
25	0,03	2	002173816	002173876	377	1/33
32	0,03	2	002173817	002173877	377	1/33

Condition	LED Flashing sequence repeats every 1,5 sec for next 25 sec after powering up	After 25 sec
Series Arc Fault	● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ...	● ● ● ● ● ● ...
Parallel Arc Fault	● ○ ○ ○ ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ...	● ● ● ● ● ● ...
Over Voltage Fault	● ○ ○ ○ ● ○ ○ ○ ● ○ ○ ○ ○ ○ ○ ○ ...	● ● ● ● ● ● ...
Self-Test Fault	● ○ ● ○ ● ○ ● ○ ● ○ ● ○ ● ○ ● ○ ...	● ● ● ● ● ● ...
No Fault	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ...	● ● ● ● ● ● ...

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).

Add-on block for residual current protection DIFO2

DIFO2					
Type	rated current [A]	Code No. Type A	Code No. Type AC	Weight [g]	Packaging [pcs]
DIFO2 30 mA	6 – 32	002058001	002058006	165	1/16
	40 – 50	002058201	002058206	165	1/16
DIFO2 100 mA	6 – 32	002058002	002058007	165	1/16
	40 – 50	002058202	002058207	165	1/16
DIFO2 300 mA	6 – 32	002058003	002058008	165	1/16
	40 – 50	002058203	002058208	165	1/16

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

Add-on block for residual current protection DIFO4

DIFO4					
Type	rated current [A]	Code No. Type A	Code No. Type AC	Weight [g]	Packaging [pcs]
DIFO4 30 mA	6 – 32	002058021	002058026	230	1/14
	40 – 50	002058221	002058226	230	1/14
DIFO4 100 mA	6 – 32	002058022	002058027	230	1/14
	40 – 50	002058222	002058227	230	1/14
DIFO4 300 mA	6 – 32	002058023	002058028	230	1/14
	40 – 50	002058223	002058228	230	1/14

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

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