

ASTI

Miniature circuit breakers	12
Residual current circuit breakers	24
Residual current circuit breakers with integral overcurrent protection	27
Motor protective circuit breakers	34
Technical data	240



MINIATURE CIRCUIT BREAKERS AND RESIDUAL CURRENT DEVICES



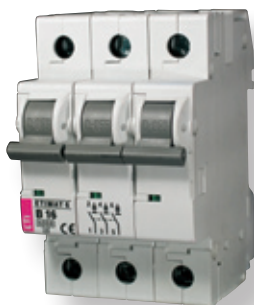
Miniature circuit breakers

Miniature circuit breaker ETIMAT 6

Rated short-circuit capacity
6 kA

Rated current
6 - 63 A

Tripping characteristic
B, C



1-pole

I_n [A]	U_n [V]	code No. B	code No. C	weight [g]	packaging [pcs]
6	230/400	002111512	002141512	112	12/108
10	230/400	002111514	002141514	112	12/108
13	230/400	002111515	002141515	112	12/108
16	230/400	002111516	002141516	112	12/108
20	230/400	002111517	002141517	112	12/108
25	230/400	002111518	002141518	112	12/108
32	230/400	002111519	002141519	112	12/108
40	230/400	002111520	002141520	112	12/108
50	230/400	002111521	002141521	123	12/108
63	230/400	002111522	002141522	123	12/108

1-pole + N

I_n [A]	U_n [V]	code No. B	code No. C	weight [g]	packaging [pcs]
6	230	002112512	002142512	227	6/54
10	230	002112514	002142514	227	6/54
13	230	002112515	002142515	227	6/54
16	230	002112516	002142516	227	6/54
20	230	002112517	002142517	227	6/54
25	230	002112518	002142518	227	6/54
32	230	002112519	002142519	227	6/54
40	230	002112520	002142520	227	6/54
50	230	002112521	002142521	245	6/54
63	230	002112522	002142522	245	6/54

2-pole

I_n [A]	U_n [V]	code No. B	code No. C	weight [g]	packaging [pcs]
6	400	002113512	002143512	227	6/54
10	400	002113514	002143514	227	6/54
13	400	002113515	002143515	227	6/54
16	400	002113516	002143516	227	6/54
20	400	002113517	002143517	227	6/54
25	400	002113518	002143518	227	6/54
32	400	002113519	002143519	227	6/54
40	400	002113520	002143520	227	6/54
50	400	002113521	002143521	245	6/54
63	400	002113522	002143522	245	6/54

3-pole

I_n [A]	U_n [V]	code No. B	code No. C	weight [g]	packaging [pcs]
6	400	002115512	002145512	345	4/36
10	400	002115514	002145514	345	4/36
13	400	002115515	002145515	345	4/36
16	400	002115516	002145516	345	4/36
20	400	002115517	002145517	345	4/36
25	400	002115518	002145518	345	4/36
32	400	002115519	002145519	345	4/36
40	400	002115520	002145520	345	4/36
50	400	002115521	002145521	372	4/36
63	400	002115522	002145522	372	4/36

Miniature circuit breakers

3-pole + N

I _n [A]	U _n [V]	code No. B	code No. C	weight [g]	packaging [pcs]
6	400	002116512	002146512	459	3/27
10	400	002116514	002146514	459	3/27
13	400	002116515	002146515	459	3/27
16	400	002116516	002146516	459	3/27
20	400	002116517	002146517	459	3/27
25	400	002116518	002146518	459	3/27
32	400	002116519	002146519	459	3/27
40	400	002116520	002146520	459	3/27
50	400	002116521	002146521	493	3/27
63	400	002116522	002146522	493	3/27



Miniature circuit breaker ETIMAT 1N

Rated short-circuit capacity
6 kA

Rated current
6-32 A

Tripping characteristic
B, C

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



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

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 NO	30	1/12
002159033	PS ETIMAT 10 - D	1 x NC	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



Miniature circuit breakers ETIMAT11

Advantages of miniature circuit breakers ETIMAT11

→ Sealing cover

→ Sealing possibility

→ Locking device

→ "ON/OFF" mark on the switch button

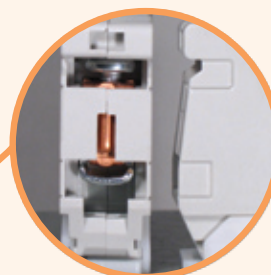
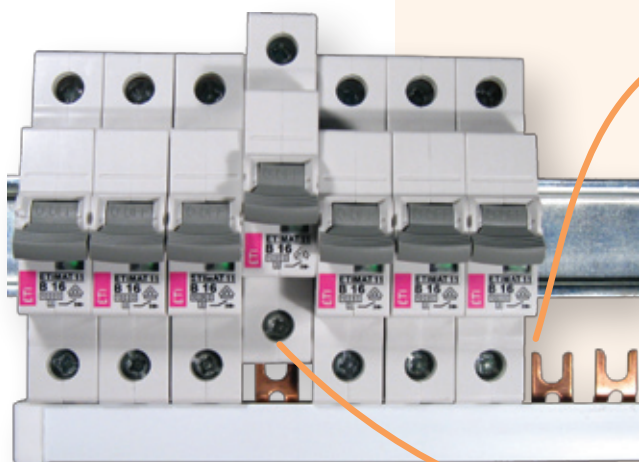
→ Better protection of terminals against touching the parts under voltage

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

→ Double connection possibility

→ Every product is marked with EAN code

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



Miniature circuit breakers

PS/SS Auxiliary signal switch for ETIMAT11

A device which can either be set up as an auxiliary switch or a signal switch; depending on the setting selected, this device may be used for remote indication of the current switching status of a switching device in the type series ETIMAT11 MCB.

Auxiliary switch = contact position indication

Signal switch = indication device tripped on fault occurrence

This switch may be used as a potential-free break /make or break /change-over contact. Even in an assembly, all terminals are easily accessible from above.

Installation and operation:

This switch is mounted together with the switching device on the support rail. If required, therefore, both may be removed together from the assembly and replaced.

Before fitting, the universal auxiliary switch will be set to the desired function auxiliary switch or signal switch by turning the adjusting-screw, marked by an appropriate label (fig.1)

On the relevant switching device, an aperture for the tripping pin is provided; this aperture is broken out (fig. 2)

Connection to the switching device is effected by two retaining clamps, operation is effected via the tripping pin or the connecting piece to the toggle switch (fig. 3)

For test purposes, the universal auxiliary switch (in assembled condition) may be operated without actuation of the switching device. To this end, the connecting pin to the protective switching device toggle is withdrawn; then, using a small screwdriver, activate the function TEST of the auxiliary switch (fig.4)

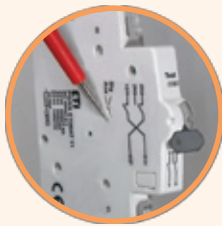


Fig.1



Fig.2

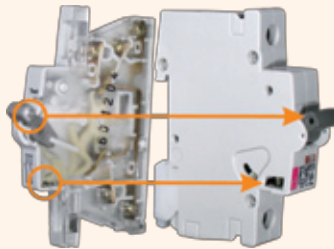


Fig.3



Fig.4

Auxiliary switch PS/SS E11

type	contacts
PS/SS E11	1xNC, 1xNC/NO

NC - normally closed contact
NO - normally opened contact



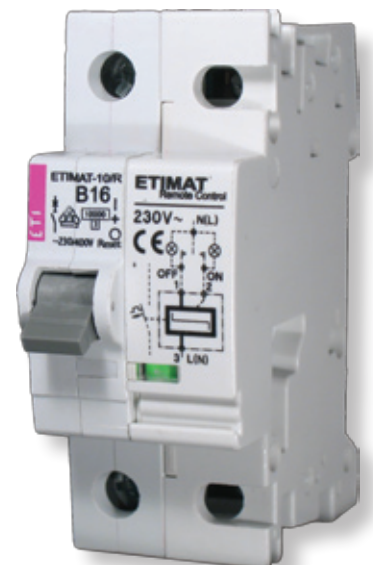
ETIMAT11 RC - Remote control

ETIMAT11 RC is a miniature circuit breaker with remote control mechanism. ETIMAT11 RC provides following advantages:

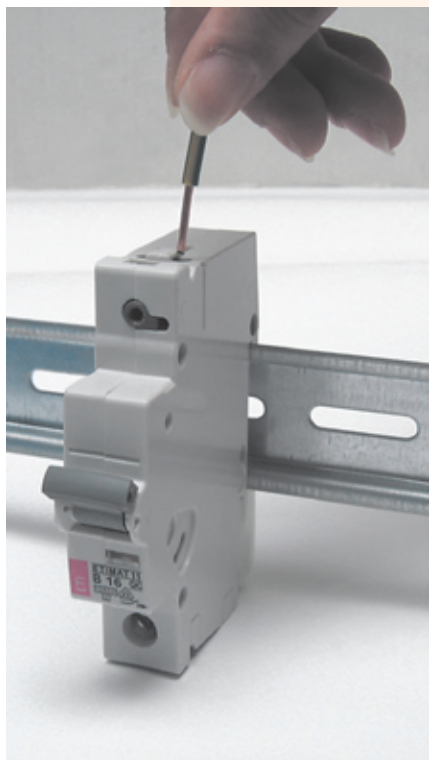
- remote switching with simultaneous protection
- minimal space requirement
- straightforward actuation
- can be used as actuator in any installation bus system
- secure against remote activation after manual switch-off and/or being tripped by overcurrent
- control coil protected against thermal overload
- 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:

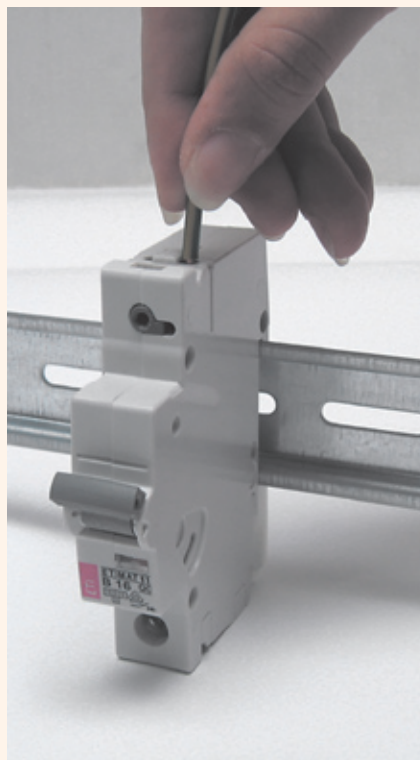
- the remote control mechanism, which serves to actuate ETIMAT11 RC is connected to Etimat11 MCB by the factory before dispatch
- the remote control mechanism is activated electro-magnetically by the application of a control voltage acc. to following data:
- rated voltage: 230V a.c.
- exciting current: approx 1.5A, duration min 20msek
- No. of operations: 20.000 , max 12 per minute



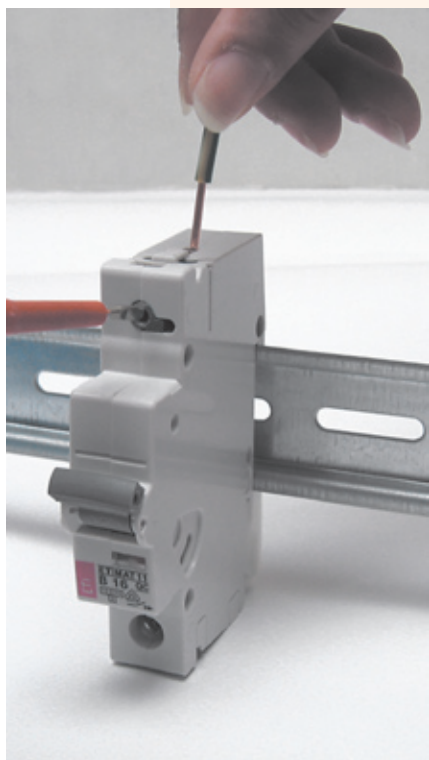
ETIMAT11 QC - Quick connect



Use rigid wire
with cross section from 1,5 to 4 mm²



Connecting the wire



Disconnecting the wire
- press the button



Voltage test

Miniature circuit breakers

Miniature circuit breaker ETIMAT 11

New!

Rated short-circuit capacity 10 kA	Rated current 0,5 - 63 A	Tripping characteristic 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		700501100	700502101	700503102	124	12/60
1	230/400		700101108	700102109	700103100	124	12/60
2	230/400		700201101	700202102	700203103	124	12/60
4	230/400		700401107	700402108	700403109	124	12/60
6	230/400	700600102	700601103	700602104	700603105	124	12/60
10	230/400	701000105	701001106	701002107	701003108	121	12/60
13	230/400	701300104	701301105	701302106	701303107	121	12/60
16	230/400	701600103	701601104	701602105	701603106	121	12/60
20	230/400	702000106	702001107	702002108	702003109	121	12/60
25	230/400	702500101	702501102	702502103	702503104	121	12/60
32	230/400	703200103	703201104	703202105	703203106	121	12/60
40	230/400	704000108	704001109			130	12/60
50	230/400	705000109	705001100			130	12/60
63	230/400	706300109	706301100			130	12/60



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		700511107	700512108	700513109	249	6/30
1	230		700111105	700112106	700113107	249	6/30
2	230		700211108	700212109	700213100	249	6/30
4	230		700411104	700412105	700413106	249	6/30
6	230	700610109	700611100	700612101	700613102	249	6/30
10	230	701010102	701011103	701012104	701013105	245	6/30
13	230	701310101	701311102	701312103	701313104	245	6/30
16	230	701610100	701611101	701612102	701613103	245	6/30
20	230	702010103	702011104	702012105	702013106	245	6/30
25	230	702510108	702511109	702512100	702513101	245	6/30
32	230	703210100	703211101	703212102	703213103	245	6/30
40	230	704010105	704011106			261	6/30
50	230	705010106	705011107			261	6/30
63	230	706310106	706311107			261	6/30



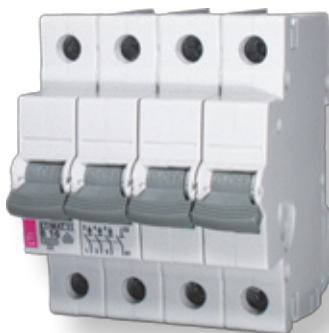
2-pole

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		700521104	700522105	700523106	249	6/30
1	400		700121102	700122103	700123104	249	6/30
2	400		700221105	700222106	700223107	249	6/30
4	400		700421101	700422102	700423103	249	6/30
6	400	700620106	700621107	700622108	700623109	249	6/30
10	400	701020109	701021100	701022101	701023102	245	6/30
13	400	701320108	701321109	701322100	701323101	245	6/30
16	400	701620107	701621108	701622109	701623100	245	6/30
20	400	702020100	702021101	702022102	702023103	245	6/30
25	400	702520105	702521106	702522107	702523108	245	6/30
32	400	703220107	703221108	703222109	703223100	245	6/30
40	400	704020102	704021103			261	6/30
50	400	705020103	705021104			261	6/30
63	400	706320103	706321104			261	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		700531101	700532102	700533103	377	4/20
1	400		700131109	700132100	700133101	377	4/20
2	400		700231102	700232103	700233104	377	4/20
4	400		700431108	700432109	700433100	377	4/20
6	400	700630103	700631104	700632105	700633106	377	4/20
10	400	701030106	701031107	701032108	701033109	367	4/20
13	400	701330105	701331106	701332107	701333108	367	4/20
16	400	701630104	701631105	701632106	701633107	367	4/20
20	400	702030107	702031108	702032109	702033100	367	4/20
25	400	702530102	702531103	702532104	702533105	367	4/20
32	400	703230104	703231105	703232106	703233107	367	4/20
40	400	704030109	704031100			393	4/20
50	400	705030100	705031101			393	4/20
63	400	706330100	706331101			393	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		700541108	700542109	700543100	500	3/15
1	400		700141106	700142107	700143108	500	3/15
2	400		700241109	700242100	700243101	500	3/15
4	400		700441105	700442106	700443107	500	3/15
6	400	700640100	700641101	700642102	700643103	500	3/15
10	400	701040103	701041104	701042105	701043106	488	3/15
13	400	701340102	701341103	701342104	701343105	488	3/15
16	400	701640101	701641102	701642103	701643104	488	3/15
20	400	702040104	702041105	702042106	702043107	488	3/15
25	400	702540109	702541100	702542101	702543102	488	3/15
32	400	703240101	703241102	703242103	703243104	488	3/15
40	400	704040106	704041107			524	3/15
50	400	705040107	705041108			524	3/15
63	400	706340107	706341108			524	3/15

Miniature circuit breaker ETIMAT 11-QC**New!**Rated short-circuit capacity
10 kARated current
0,5 - 20 ATripping characteristic
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		710501107	710502108	710503109	124	12/60
1	230/400		710101105	710102106	710103107	124	12/60
2	230/400		710201108	710202109	710203100	124	12/60
4	230/400		710401104	710402105	710403106	124	12/60
6	230/400	710600109	710601100	710602101	710603102	124	12/60
10	230/400	711000102	711001103	711002104	711003105	121	12/60
13	230/400	711300101	711301102	711302103	711303104	121	12/60
16	230/400	711600100	711601101	711602102	711603103	121	12/60
20	230/400	712000103	712001104	712002105	712003106	121	12/60

Miniature circuit breakers

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		710511104	710512105	710513106	249	6/30
1	230		710111102	710112103	710113104	249	6/30
2	230		710211105	710212106	710213107	249	6/30
4	230		710411101	710412102	710413103	249	6/30
6	230	710610106	710611107	710612108	710613109	249	6/30
10	230	711010109	711011100	711012101	711013102	245	6/30
13	230	711310108	711311109	711312100	711313101	245	6/30
16	230	711610107	711611108	711612109	711613100	245	6/30
20	230	712010100	712011101	712012102	712013103	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		710521101	710522102	710523103	249	6/30
1	400		710121109	710122100	710123101	249	6/30
2	400		710221102	710222103	710223104	249	6/30
4	400		710421108	710422109	710423100	249	6/30
6	400	710620103	710621104	710622105	710623106	249	6/30
10	400	711020106	711021107	711022108	711023109	245	6/30
13	400	711320105	711321106	711322107	711323108	245	6/30
16	400	711620104	711621105	711622106	711623107	245	6/30
20	400	712020107	712021108	712022109	712023100	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		710531108	710532109	710533100	377	4/20
1	400		710131106	710132107	710133108	377	4/20
2	400		710231109	710232100	710233101	377	4/20
4	400		710431105	710432106	710433107	377	4/20
6	400	710630100	710631101	710632102	710633103	377	4/20
10	400	711030103	711031104	711032105	711033106	367	4/20
13	400	711330102	711331103	711332104	711333105	367	4/20
16	400	711630101	711631102	711632103	711633104	367	4/20
20	400	712030104	712031105	712032106	712033107	367	4/20



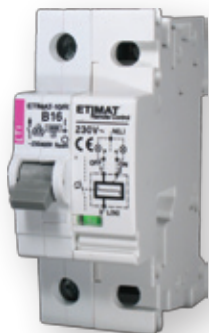
3-pole + N

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		710541105	710542106	710543107	500	3/15
1	400		710141103	710142104	710143105	500	3/15
2	400		710241106	710242107	710243108	500	3/15
4	400		710441102	710442103	710443104	500	3/15
6	400	710640107	710641108	710642109	710643100	500	3/15
10	400	711040100	711041101	711042102	711043103	488	3/15
13	400	711340109	711341100	711342101	711343102	488	3/15
16	400	711640108	711641109	711642100	711643101	488	3/15
20	400	712040101	712041102	712042103	712043104	488	3/15



Miniature circuit breaker ETIMAT RC (remote control)

New!

Rated short-circuit capacity
10 kARated current
6 - 63 ATripping characteristics
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	12/60
10	230/400	631000103	631001104	121	12/60
13	230/400	631300102	631301103	121	12/60
16	230/400	631600101	631601102	121	12/60
20	230/400	632000104	632001105	121	12/60
25	230/400	632500109	632501100	121	12/60
32	230/400	633200101	633201102	121	12/60
40	230/400	634000106	634001107	130	12/60
50	230/400	635000107	635001108	130	12/60
63	230/400	636300107	636301108	130	12/60

1-pole + N

I_n [A]	U_n [V]	code No. B	code No. C	weight [g]	packaging [pcs]
6	230	630610107	630611108	249	6/30
10	230	631010100	631011101	245	6/30
13	230	631310109	631311100	245	6/30
16	230	631610108	631611109	245	6/30
20	230	632010101	632011102	245	6/30
25	230	632510106	632511107	245	6/30
32	230	633210108	633211109	245	6/30
40	230	634010102	634011103	261	6/30
50	230	635010103	635011104	261	6/30
63	230	636310103	636311104	261	6/30

2-pole

I_n [A]	U_n [V]	code No. B	code No. C	weight [g]	packaging [pcs]
6	400	630620104	630621105	249	6/30
10	400	631020107	631021108	245	6/30
13	400	631320106	631321107	245	6/30
16	400	631620105	631621106	245	6/30
20	400	632020108	632021109	245	6/30
25	400	632520103	632521104	245	6/30
32	400	633220105	633221106	245	6/30
40	400	634020100	634021101	261	6/30
50	400	635020101	635021102	261	6/30
63	400	636320101	636321102	261	6/30

3-pole

I_n [A]	U_n [V]	code No. B	code No. C	weight [g]	packaging [pcs]
6	400	630630101	630631102	377	4/20
10	400	631030104	631031105	367	4/20
13	400	631330103	631331104	367	4/20
16	400	631630102	631631103	367	4/20
20	400	632030105	632031106	367	4/20
25	400	632530100	632531101	367	4/20
32	400	633230102	633231103	367	4/20
40	400	634030107	634031108	393	4/20
50	400	635030108	635031109	393	4/20
63	400	636330108	636331109	393	4/20

Miniature circuit breakers

3-pole + N

I_n [A]	U_n [V]	code No. B	code No. C	weight [g]	packaging [pcs]
6	400	630640108	700641109	500	3/15
10	400	631040101	701041102	488	3/15
13	400	631340100	701341101	488	3/15
16	400	631640109	701641100	488	3/15
20	400	632040102	702041103	488	3/15
25	400	632540107	702541108	488	3/15
32	400	633240109	703241100	488	3/15
40	400	634040104	704041105	524	3/15
50	400	635040105	705041106	524	3/15
63	400	636340105	706341106	524	3/15

Miniature circuit breaker ETIMAT11-DC

New!

Rated short-circuit capacity
6 kARated current
6 - 63 ATripping characteristic
B, C

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	weight [g]	packaging [pcs]
6	220	690600102	690601106	124	12/60
10	220	691000105	691001109	245	12/60
13	220	691300104	691301108	245	12/60
16	220	691600103	691601107	245	12/60
20	220	692000106	692001100	245	12/60
25	220	692500101	692501105	245	12/60
32	220	693200103	693201107	245	12/60
40	220	694000108	694001102	261	12/60
50	220	695000109	695001103	261	12/60
63	220	696300109	696301103	261	12/60

2-pole

I_n [A]	U_n [V]	code No. B	code No. C	weight [g]	packaging [pcs]
6	440	690620106	690621107	249	6/30
10	440	691020109	691021100	245	6/30
13	440	691320108	691321109	245	6/30
16	440	691620107	691621108	245	6/30
20	440	692020100	692021101	245	6/30
25	440	692520105	692521106	245	6/30
32	440	693220107	693221108	245	6/30
40	440	694020102	694021103	261	6/30
50	440	695020103	695021104	261	6/30
63	440	696320103	696321104	261	6/30



Accessories for ETIMAT11, ETIMAT11-QC in ETIMAT11-DC

ETIMAT terminal cover

code No.	weight [g]	packaging [pcs]
002159011	2	12





PS/SS E11 is an auxiliary switch used for remote signalling of the MCB to which it is fixed. PS/SS E11 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/SS E11

type	code No.	contacts	weight [g]	packaging [pcs]
PS/SS E11	768900101	1xNC, 1xNC/NO	40	1/10



DA ETIMAT 11 shunt trip release is fixed to the right side of the miniature circuit breaker ETIMAT 11 for remote release of the MCB. Dimensions correspond to those of MCB ETIMAT 11.

Shunt trip release DA ETIMAT 11

type	code No.	weight [g]	packaging [pcs]
DA ETIMAT 11 12-60V AC/DC	770610108	110	1/54
DA ETIMAT 11 110-250V AC	772510107	110	1/54



Undervoltage release UA ETIMAT 11

type	code No.	weight [g]	packaging [pcs]
UA ETIMAT 11/ 230 V	782500107	96,1	1/12
UA ETIMAT 11 / 48V	780600108	96,1	1/12



Miniature circuit breaker ETIMAT 11 80 - 125A

Rated short-circuit capacity
15, 20 kA

Rated current
80 - 125 A

Tripping characteristics
C, D



1-pole

I _n [A]	code No. C	code No. D	weight [g]	packaging [pcs]
80	002131731	002151731	231	2/72
100	002131732	002151732	231	2/72
125	002131733		231	2/72

Miniature circuit breakers

2-pole

I_n [A]	code No. C	code No. D	weight [g]	packaging [pcs]
80	002133731	002153731	466	1/36
100	002133732	002153732	466	1/36
125	002133733		466	1/36

3-pole

I_n [A]	code No. C	code No. D	weight [g]	packaging [pcs]
80	002135731	002155731	696	1/18
100	002135732	002155732	696	1/18
125	002135733		696	1/18

3-pole + N

I_n [A]	code No. C	code No. D	weight [g]	packaging [pcs]
80	002136731	002156731	860	1/18
100	002136732	002156732	860	1/18
125	002136733		860	1/18



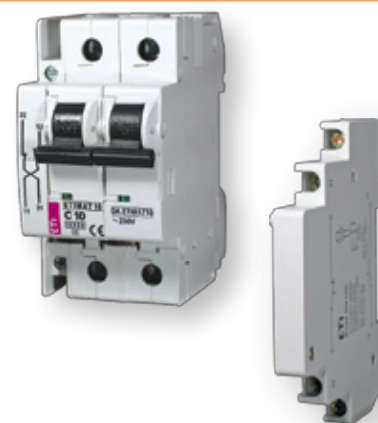
Accessories for ETIMAT11 80 - 125A

Shunt trip release DA ETIMAT 80/125 110 - 415V

code No. B	weight [g]	packaging [pcs]
002159321	173	1/54

Auxiliary switch PSM 80/125

code No. B	weight [g]	packaging [pcs]
002159121	62	1/12



Current limiter OSP-11

Rated short-circuit capacity
10 kA

Rated current
6 - 63 A

Rated voltage
230/400 V

1-polni

I_n [A]	code No.	weight [g]	packaging [pcs]
6	700603992	124	12/60
10	701003995	121	12/60
13	701303994	121	12/60
16	701603993	121	12/60
20	702003996	121	12/60
25	702503991	121	12/60
32	703203993	121	12/60
40	704003998	130	12/60
50	705003999	130	12/60
63	706303999	130	12/60



**3-polni**

I_n [A]	code No.	weight [g]	packaging [pcs]
6	700633993	377	4/20
10	701033996	367	4/20
13	701333995	367	4/20
16	701633994	367	4/20
20	702033997	367	4/20
25	702533992	367	4/20
32	703233994	367	4/20
40	704033999	393	4/20
50	705033990	393	4/20
63	706333990	393	4/20

Tripping characteristics

Test current	Tripping time	Result
$1,1 \times I_n$	$t > 3600 \text{ s}$	No tripping
$1,4 \times I_n$	$2 < t < 900 \text{ s}$	Tripping
$2,5 \times I_n$	$0,5 < t < 60 \text{ s}$	Tripping
$10 \times I_n$	$t > 0,1 \text{ s}$	No tripping
$20 \times I_n$	$t < 0,1 \text{ s}$	Tripping

Application

- Limiting the consumption of electric power based on current overload
- Protection against short circuit.

Dimensions

- A single pole device (width 1 module) – dimensions fit circuit breaker ETIMAT 11
- Three-pole device: width of 3 modules

Built-in

- Domestic distribution boards (built-in and surface-mounted), it is possible to seal the connecting terminals with special sealing peace.
- Surface-mounted distribution board NE 2 (distribution board width: 2 moduls) for a single pole device
- Surface-mounted distribution board NE 4 (distribution board width: 4 moduls) for three pole device
- Sealing available for both NE 2 and NE 4.

Residual current circuit breakers

Residual current circuit breakers EFI are used for protection against indirect touching of parts under voltage, for prevention of lasting voltage on earthed parts which should appear because of a defect in the electrical installation and for protection against direct contacts of parts under voltage in case of $I_{\Delta n} \leq 30 \text{ mA}$. Residual current circuit breakers can be used in TN-S, TN-C, TT and IT network systems or with other words in all systems where neutral and protective conductor are separated (VDE 0100 Part 410).

Types - Our programme comprises residual current circuit breakers which are sensitive to alternating residual current (AC-type) and residual current circuit breakers which are sensitive to alternating and pulsating direct current (A-type).

		EFI 2			EFI 4			
		type A	type AC	type G	type A	type AC	type S	type G
	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)	✓			✓			
	Selective (time delayed min. 40 ms)						✓	
	Short time delayed (min. 10 ms)			✓				✓

Note: Tripping time according to standard IEC 61008

Residual current circuit breakers

Residual current circuit breaker EFI-2

Rated residual current
0,03 - 0,5 ARated current
16 - 80 AType
A, AC, G

EFI-2 type A, EFI-2 type AC

I_n [A]	$I_{\Delta n}$ [A]	number of poles	code No. A	code No. AC	weight [g]	packaging [pcs]
16	0,03	2	002062521	002062121	229	1/54
25	0,03	2	002062522	002062122	229	1/54
40	0,03	2	002062523	002062123	229	1/54
63	0,03	2	002062524	002062124	244	1/54
80	0,03	2	002062525	002062125	244	1/54
100	0,03	2	002062530	002062531	244	1/54
16	0,1	2	002063521	002063121	223	1/54
25	0,1	2	002063522	002063122	223	1/54
40	0,1	2	002063523	002063123	223	1/54
63	0,1	2	002063524	002063124	227	1/54
80	0,1	2	002063525	002063125	230	1/54
100	0,1	2	002062532	002062533	230	1/54
16	0,3	2	002064521	002064121	223	1/54
25	0,3	2	002064522	002064122	223	1/54
40	0,3	2	002064523	002064123	223	1/54
63	0,3	2	002064524	002064124	227	1/54
80	0,3	2	002064525	002064125	230	1/54
100	0,3	2	002062534	002062535	230	1/54
16	0,5	2	002065521	002065121	223	1/54
25	0,5	2	002065522	002065122	223	1/54
40	0,5	2	002065523	002065123	223	1/54
63	0,5	2	002065524	002065124	227	1/54
80	0,5	2	002065525	002065125	230	1/54



16 - 80 A



100 A

Residual current circuit breaker EFI-4

Rated residual current
0,03 - 0,5 ARated current
16 - 80 Atype
A, AC

EFI-4 type A, EFI-4 type AC

I_n [A]	$I_{\Delta n}$ [A]	number of poles	code No. A	code No. AC	weight [g]	packaging [pcs]
16	0,03	4	002062541	002062141	393	1/27
25	0,03	4	002062542	002062142	393	1/27
40	0,03	4	002062543	002062143	393	1/27
63	0,03	4	002062544	002062144	400	1/27
80	0,03	4	002062545	002062145	407	1/27
100	0,03	4	002062150	002062151	407	1/27
16	0,1	4	002063541	002063141	393	1/27
25	0,1	4	002063542	002063142	393	1/27
40	0,1	4	002063543	002063143	393	1/27
63	0,1	4	002063544	002063144	400	1/27
80	0,1	4	002063545	002063145	407	1/27
100	0,1	4	002062152	002062153	407	1/27
16	0,3	4	002064541	002064141	364	1/27
25	0,3	4	002064542	002064142	364	1/27
40	0,3	4	002064543	002064143	364	1/27
63	0,3	4	002064544	002064144	372	1/27
80	0,3	4	002064545	002064145	372	1/27
100	0,3	4	002062154	002062155	372	1/27
16	0,5	4	002065541	002065141	364	1/27
25	0,5	4	002065542	002065142	364	1/27
40	0,5	4	002065543	002065143	364	1/27
63	0,5	4	002065544	002065144	372	1/27
80	0,5	4	002065545	002065145	372	1/27

* Na voljo je tudi izvedba s polom N na levi strani.



16 - 80 A



100 A

**EFI-4 tip S**

I_n [A]	$I_{\Delta n}$ [A]	number of poles	code No. A	code No. AC	weight [g]	packaging [pcs]
40	0,3	4	859443410	002064243	400	1/27
63	0,3	4	859643416	002064244	400	1/27

EFI-4 tip G

I_n [A]	$I_{\Delta n}$ [A]	number of poles	code No. AC	weight [g]	packaging [pcs]
40	0,03	4	854088815	320	1/27

ETI also manufactures tripping relays used in residual current circuit breakers – the range of products and their technical data is available in technical information published separately.

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.

**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

tip	code No.	weight [g]	packaging [pcs]
	002069004	45	1/12

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



→ Clearly marked terminals to ensure appropriate connection

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

→ Sealing possibility



→ TR center trip position - unique to KZS 1M



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



→ time saving busbar and clever connection devices



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

Rated short-circuit capacity
6 kARated current
6 - 25 ATripping characteristic
B, CRated residual current
0,01 - 0,03 - 0,1 A

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

**KZS - 1M**

I_n [A]	$I_{\Delta n}$ [A]	code No. B	code No. C	weight [g]	packaging [pcs]
6	0,01	002175411	002175421	115	1/12
10	0,01	002175412	002175422		
13	0,01	002175413	002175423		
16	0,01	002175414	002175424		
20	0,01	002175415	002175425		
25	0,01	002175416	002175426		
6	0,03	002175201	002175221	115	1/12
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	115	1/12
10	0,1	002175432	002175442		
13	0,1	002175433	002175443		
16	0,1	002175434	002175444		
20	0,1	002175435	002175445		
25	0,1	002175436	002175446		

New!

New!

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

Rated short-circuit capacity
10 kARated current
6 - 40 ATripping characteristic
B, CRated 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 $I_{\Delta n} = 30 \text{ mA}$**

I_n [A]	type A		type AC		packaging [pcs]
	code No. B	code No. C	code No. B	code No. C	
6	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 $I_{\Delta n} = 300 \text{ mA}$

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

Residual current circuit breakers with integral overcurrent protection

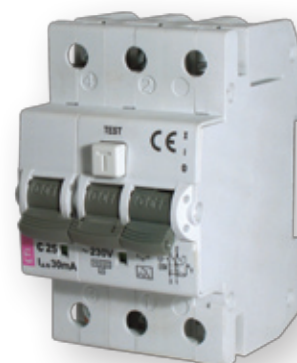
KZS-2M $I_{\Delta n} = 10 \text{ mA}$

I_n [A]	type A		packaging [kos]
	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 breaker with integral overcurrent protection KZS-3M

Rated short-circuit capacity
10 kARated current
6 - 25 ATripping characteristic
B, CRated residual current
0,03 A**KZS-3M $I_{\Delta n} = 30 \text{ mA}$**

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 kARated current
6 - 32 ATripping characteristic
B, CRated residual current
0,03 A**KZS-4M 3p $I_{\Delta n} = 30 \text{ mA}$**

I_n [A]	type A		type AC		weight [g]	packaging [pcs]
	šifra 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!

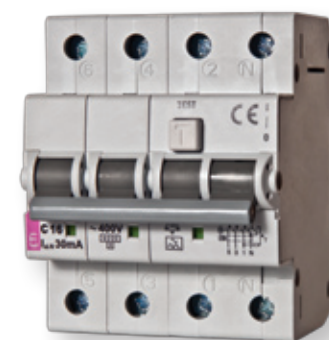


Residual current circuit breaker with integral overcurrent protection KZS-4M 3p+N

Rated short-circuit capacity
10 kARated current
6 - 32 ATripping characteristic
B, CRated residual current
0,03 A**KZS-4M 3p+N $I_{\Delta n} = 30 \text{ mA}$**

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 ARated residual current
0,03 - 0,3 ATipping 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	šifra C	code No. B	šifra 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	šifra C	code No. B	šifra 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

* soon available

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

I_n [A]	type A		type AC		packaging [pcs]
	code No. B	šifra C	code No. B	šifra 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

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

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	šifra C	code No. B	šifra 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

* soon available

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

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]
	šifra B	šifra C	šifra B	šifra 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

* soon available

New!

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

* soon available

New!

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	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

* soon available

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.



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

* soon available

New!



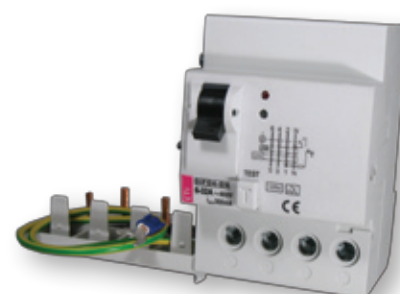
Add-on block for residual current protection DIFO4 DN

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

* soon available

New!



Motor protective circuit breakers

Motorsko zaščitno stikalo MPE 25

Rated current
0,16 - 32 A

Advantages

- With overload and short circuit protection
- Fixed short circuit release $12 \times I_u$
- With phase-failure sensitivity according to IEC/EN 60947-4-1
- With temperature compensation
- Can be used as main switch
- MPE25 up to 10A at 400/415V are self-protected
- MPE25 above 10A provide a breaking capacity of 50kA at 400/415V according to IEC/EN 60947-2



Motor protective circuit breaker MPE25

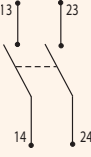
type	code No.	operational inst. current I_u (A)	setting overl. release I_r (A)	short-circuit release I_{rm} (A)	weight [g]	packaging [pcs]
MPE25-0,16	004648001	0.16	0,1-0,16	1.9	322	1
MPE25-0,25	004648002	0.25	0,16-0,25	3	322	1
MPE25-0,40	004648003	0.4	0,25-0,4	4,8	322	1
MPE25-0,63	004648004	0.63	0,4-0,63	7,5	322	1
MPE25-1,0	004648005	1	0,63-1,0	12	322	1
MPE25-1,6	004648006	1.6	1,0-1,6	19	322	1
MPE25-2,5	004648007	2.5	1,6-2,5	30	322	1
MPE25-4,0	004648008	4	2,5-4,0	48	322	1
MPE25-6,3	004648009	6.3	4,0-6,3	75	322	1
MPE25-10	004648010	10	6,3-10	120	322	1
MPE25-16	004648011	16	10-16	190	322	1
MPE25-20	004648012	20	16-20	240	322	1
MPE25-25	004648013	25	20-25	300	322	1
MPE25-32	004648014	32	25-32	384	322	1

Front mountable auxiliary contact block, the 45mm widths - MPE remain unchanged

type	code No.	wiring diagram	auxiliary contacts NO, NC	weight [g]	packaging [pcs]
ACBFE-11	004648021		1, 1	20	1

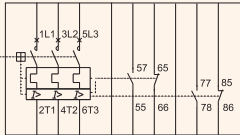
Motor protective circuit breakers

Left side mountable contact block, can be combined with front mountable auxiliary contact block

type	code No.	wiring diagram	auxiliary contacts NO, NC	weight [g]	packaging [pcs]
ACBSE-11	004648022		1, 1	38	1
ACBSE-20	004648023		2, 0	38	1



Trip indicating contact block, mounted on the left side

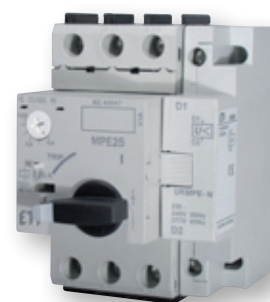
type	code No.	wiring diagram	notes	weight [g]	packaging [pcs]
TBSE	004648024		Separate tripped and short-circuit 1NC for each circuit. Allows mounting with lateral aux. contact block. Left side mounting. TBSE alarms, 1NO +	150	1



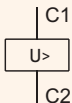
Undervoltage release, mounted on the right side

type	code	wiring diagram	actuating voltages	weight [g]	packaging [pcs]
URMPE-N	004648027		230-240V AC	115	1
URMPE-U	004648028		400-415V AC		

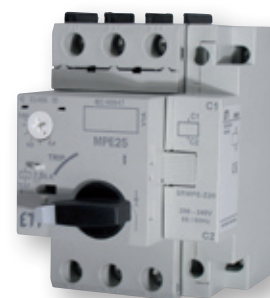
Pick-up voltage $>0,85 \times U_e$ Drop-out voltage $0,35-0,7 \times U_e$ 100%DF



Shunt release, mounted on the right side

type	code No.	wiring diagram	actuating voltages	weight [g]	packaging [pcs]
SRMPE-Z20	004648030		200-240V AC	115	1

Pick-up voltage $0,7 \times U_e$ 100%DF



**Accessories**

type	code No.	description	weight [g]	packaging [pcs]
SCMPE	004648025	Scale cover	15	5
PLMPE	004648026	Push-in-lugs	25	5

**Insulated enclosure with black/grey rotary handle, IP55**

for use with	code No.	notes	type	weight [g]	packaging [pcs]
MPE25 + ACBFE11 + ACBSE11 ali ACBSE20 + PL..	004648032	with black/grey rotary handle with integrated PE(N) terminal	MPEE55G	365	1
MPE25 + URMPE ili SRMPE + ACBFE11 + ACBSE11 ali ACBSE20 + PL..	004648033	locable in OFF position with 3 padlocks two M25 metric cable entry knockout, top and bottom	MLPEE55G	415	1

**Insulated enclosure with red/yellow rotary handle, IP55**

for use with	code No.	notes	type	weight [g]	packaging [pcs]
MPE25 + ACBFE11 + ACBSE11 ali ACBSE20 + PL..	004648034	with red/yellow rotary handle for use as Emergency-Stop switches to IEC/EN 60204 with integrated PE(N) terminal	MPEE55G-E	365	1
MPE25 + URMPE ali SRMPE + ACBFE11 + ACBSE11 or ACBSE20 + PL..	004648035	locable in OFF position with 3 padlocks two M25 metric cable entry knockout, top and bottom	MLPEE55G-E	415	1

Neutral terminal

for use with	code No.	description	type	weight [g]	packaging [pcs]
MPEE55G, MLPEE55G, MPEE55G-E in MLPEE55G-E	004648038	for connection of a 5th conductor	NL-MPEE	365	1

Motor protective circuit breakers

Flush mounting enclosure

type	code No.	colour	description	weight [g]	packaging [pcs]
FMEE55	004648036	black	- for MPE mounting on panel door - degree of protection IP55 - moulded plastic front plate with rotary operating mechanism	200	1
FMEE55-E	004648037	red/yellow	- locable in OFF position - allows access. ACBFE-11, ACBSE-11 or ACBSE-20 and URMPE / SRMPE - allow instalation of sig. lamp	200	1

Door coupling rotary handle black/grey and red/yellow, IP55

type	code No.	colour	notes	weight [g]	packaging [pcs]
RMMPE130 (130 mm)	004648039	black	- extension shaft, lenght 130 to 155mm - extension shaft, lenght 330 to 355mm - door coupling rotary handle black/grey	76	1
RMMPE330 (330 mm)	004648040		- extension shaft can be cut at any required lenght min. 80mm	114	
RMMPE130E (130 mm)	004648041	red/yellow	- thickness of panel door 1 to 3,5mm - for use of main switch IEC/EN60204 - ON/OFF/Tripped position	76	1
RMMPE330E (330 mm)	004648042		- lockable in OFF pos. with 3 padlocks - the MPE can also be used turned 90°	114	

Indicator light

type	code No.	notes	colour	weight [g]	packaging [pcs]
PLE230 PLE400	004648043 004648044	voltage: 210...230V voltage: 400...560V	red	17	10
PLE230G PLE400G	004648045 004648046	voltage: 210...230V voltage: 400...560V	green		
PLE230W PLE400W	004648047 004648048	voltage: 210...230V voltage: 400...560V	white		

Circuit breaker-contactor link module

type	code No.	notes	for use with	weight [g]	packaging [pcs]
ECCMPE07	004648052	for electrical and mechanical linking motor protective circuit breaker	CE07	27	1
ECCMPE25	004648053	MPE25 and contactor	CEM9...25		



Motor protective circuit breaker MS25, MST25

Main application field: control (start-up, protection and switch-off) of AC electric motors with powers up to 11 kW (380/400 V) or other consumers up to 25 A; it can also be used as the main switch according to EN 60204 or VDE 0113 standards.

Versions:

- MS25 - with overload and short circuit protection
- MST25 - with overload protection

Manual control:

- START, STOP, push-buttons
- Test of release function (TEST)

- Phase-failure sensitivity according to IEC/EN 60947-4-1
- Automatic switch-off with thermal or magnetic release
- Control with under-voltage release or shunt release
- Isolating distance between contacts: 4.5 mm per contact place
- Možnost priključitve togega ali finožičnega vodnika
- Simple and fast mounting by snap fitting on 35 mm wide mounting rail in compliance with EN 60715; fixing with two screws is also possible
- Vertical or horizontal operation position



Motor protective circuit breaker MS25

type	code No.	operational inst. current I _n (A)	setting overl. release I _r (A)	weight [g]	packaging [pcs]
MS25-0,16	004600010	0.16	0,1-0,16	255	1
MS25-0,25	004600020	0.25	0,16-0,25	255	1
MS25-0,40	004600030	0.4	0,25-0,4	255	1
MS25-0,63	004600040	0.63	0,4-0,63	255	1
MS25-1,0	004600050	1	0,63-1,0	255	1
MS25-1,6	004600060	1.6	1,0-1,6	255	1
MS25-2,5	004600070	2.5	1,6-2,5	255	1
MS25-4,0	004600080	4	2,5-4,0	255	1
MS25-6,3	004600090	6.3	4,0-6,3	255	1
MS25-10	004600100	10	6,3-10	255	1
MS25-16	004600110	16	10-16	255	1
MS25-20	004600120	20	16-20	255	1
MS25-25	004600130	25	20-25	255	1

Motor protective circuit breaker MST25

type	code No.	operational inst. current I _n (A)	setting overl. release I _r (A)	weight [g]	packaging [pcs]
MST25-0,4	004600530	0,4	0,25-0,4	252	1
MST25-0,63	004600540	0,63	0,4-0,63	252	1
MST25-1,0	004600550	1	0,63-1,0	252	1
MST25-1,6	004600560	1,6	1,0-1,6	252	1
MST25-2,5	004600570	2,5	1,6-2,5	252	1
MST25-4,0	004600580	4	2,5-4,0	252	1
MST25-6,3	004600590	6,3	4,0-6,3	252	1
MST25-10	004600600	10	6,3-10	252	1
MST25-16	004600610	16	10-16	252	1
MST25-20	004600620	20	16-20	252	1
MST25-25	004600630	25	20-25	252	1

Motor protective circuit breakers

Auxiliary switch for lateral mounting PS

Auxiliary switch for lateral mounting PS

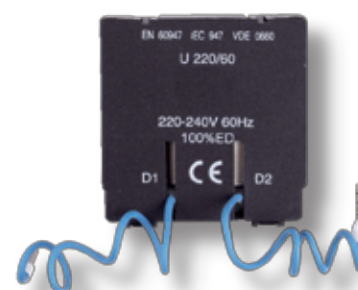
Type	code No.	wiring diagram	auxiliary contacts NO, NC	weight [g]	packaging [pcs]
PS 20	004600160		2,0	30	1/10
PS 01	004600150		0,1	30	1/10
PS 10	004600140		1,0	30	1/10
PS 11	004600130		1,1	30	1/10



Shunt release

Shunt release

Type	code No.	wiring diagram	actuating voltages	weight [g]	packaging [pcs]
A 220	004600170		220V-240V	30	1/10



Undervoltage release

Undervoltage release

Type	code No.	wiring diagram	actuating voltages	weight [g]	packaging [pcs]
U 220	004600180		220V-240V	30	1/10



Enclosure O Front plate CP

Enclosure O Front plate CP

Type	code No.	IP	weight [g]	packaging [pcs]
O - 41	004600190	41	25	1
O - 55	004600200	55	25	1
CP - 41	004600210	41	20	1
CP - 55	004600220	55	20	1

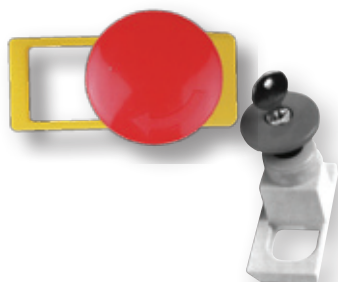


O-IP41/55



CP-IP41/55

Emergency stop push-button



Emergency stop push-button

Type	code No.	weight [g]	packaging [pcs]
NAT	004600270	15	1/20
NAT-lock	004600280	20	1/20

Padlocking feature Z



Padlocking feature Z

Type	code No.	weight [g]	packaging [pcs]
Z	001180260	30	1/10

Neutral link NL



Neutral link NL

Type	code No.	weight [g]	packaging [pcs]
NL	004600330	10	1/10

Signal lamp SS



Signal lamp SS

Type	code No.	colour	weight [g]	packaging [pcs]
SS B 400V	004600230	white	10	1/10
SS R 400V	004600240	red	10	1/10
SS Z 400V	004600250	green	10	1/10