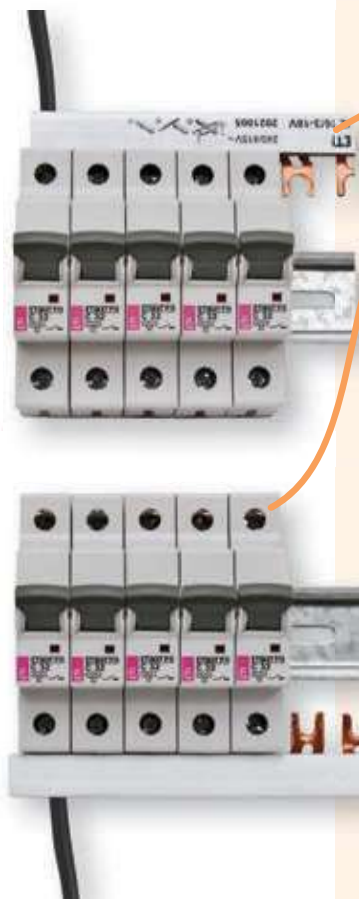


NEW ETIMAT P10

High breaking capacity MCB ETIMAT P10



→ Supply possibility:

- top
- bottom

→ Double connection possibility

→ Every product is marked with EAN Code



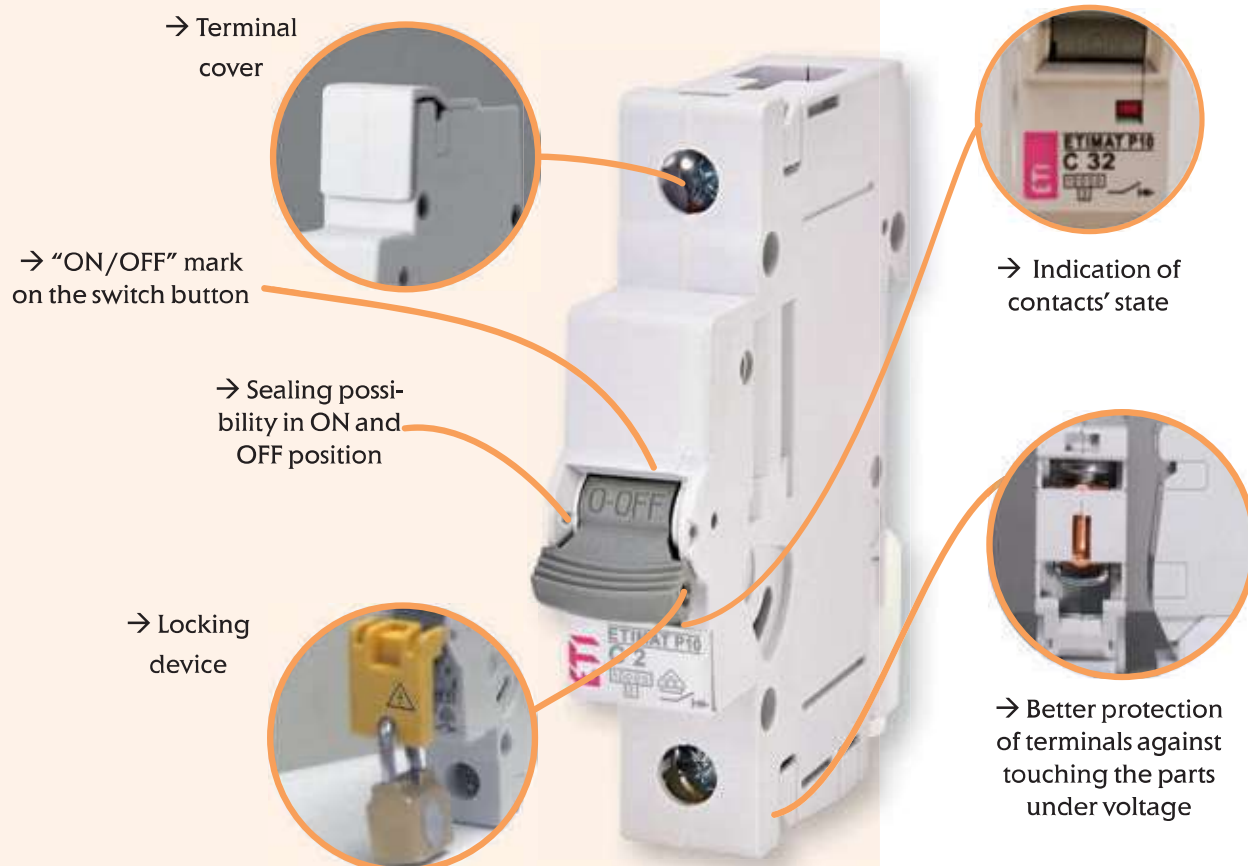
→ New method of mounting on the DIN rail and simple replacement



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

PREMIUM PERFORMANCE MCB
 PRODUCT PERFORMANCE & AUXILIARY
 PRODUCT QUALITY & RELIABILITY
 POWER CONTROL
 PRICE AVAILABILITY

Other features



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-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 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 20msec
• No. of operations:	20.000 , max 4 per minute



Miniature circuit breaker ETIMAT P10

Rated short-circuit capacity
10 kARated current
0,5 - 63 ATripping characteristic
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	273224105	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
10 kA

Rated current
0,5 - 20 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	/	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

Resistance and power loss

characteristic	I_n [A]	R [mΩ]	P [w]
C, D	0,5	4500	1,12
	1	1800	1,80
	1,6	450	1,15
	2	280	1,08
	4	110	1,70
B, C, D	6	29	1,08
	10	13	1,30
	13	11,6	2,00
	16	9,0	2,30
	20	5,3	2,00
	25	4,1	2,50
	32	2,6	2,70
	40	1,96	3,20
	50	1,5	4,00
	63	1,15	4,80

Selectivity

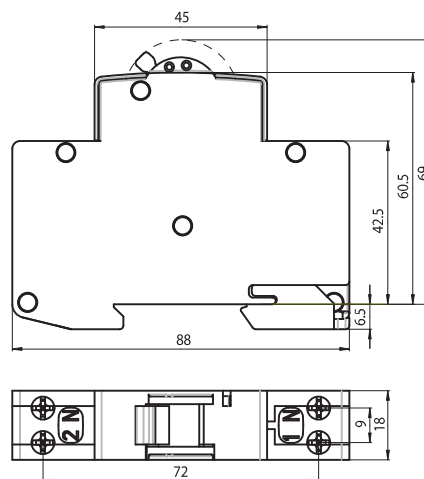
ETIMAT	gG NV										
	20	25	32	35	40	50	63	80	100	125	160
B 6	0,5	0,78	1,2	1,4	1,7	2,4	4,6	6,0	6,0	6,0	6,0
B 10/13	0,45	0,65	1,1	1,3	1,6	2,2	4,0	6,0	6,0	6,0	6,0
B 16		0,55	1,0	1,2	1,5	2,0	3,6	5,5	6,0	6,0	6,0
B 20			0,85	1,2	1,5	1,8	3,1	4,6	6,0	6,0	6,0
B 25				1,1	1,4	1,7	2,9	4,0	6,0	6,0	6,0
B 32					1,3	1,6	2,5	3,4	5,5	6,0	6,0
B 40						1,5	2,2	3,1	4,9	6,0	6,0
B 50							2,1	2,9	4,0	6,0	6,0
B 63								2,5	3,3	5,1	6,0

ETIMAT	gG NV										
	20	25	32	35	40	50	63	80	100	125	160
C, D 6	0,52	0,82	1,3	1,5	2,0	2,7	5,1	6,0	6,0	6,0	6,0
C, D 10/13	0,47	0,70	1,1	1,4	1,8	2,3	4,0	6,0	6,0	6,0	6,0
C, D 16		0,61	0,92	1,2	1,5	1,9	3,2	5,0	6,0	6,0	6,0
C, D 20			0,90	1,1	1,4	1,7	2,9	4,2	6,0	6,0	6,0
C, D 25				1,0	1,3	1,6	2,7	3,9	6,0	6,0	6,0
C, D 32					1,2	1,5	2,3	3,4	5,2	6,0	6,0
C, D 40						1,4	2,1	3,0	4,6	6,0	6,0
C, D 50							2,0	2,7	3,8	6,0	6,0
C, D 63								2,3	3,2	5,5	6,0

Miniature circuit breaker ETIMAT 1N

Technical data

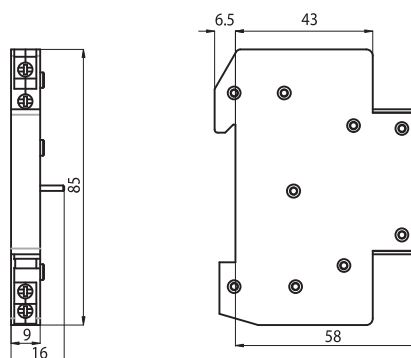
Rated voltage U_n	230 V AC
Rated current I_n	6-32 A
Rated frequency f_n	50/60Hz
Rated short-circuit capacity	6.000 A
Back-up fuse	100 A gG
Tripping characteristics	B, C
Overvoltage category	III
Energy limiting class	3
Terminals	1-10mm ² , max. 1,5Nm
Terminal screw	M4 (Pozidrive PZ2)
Build-in width	18mm
Mounting position	any
Supply possibility	top or bottom
Resistance to vibrations acc. to IEC 60068-2-7	5g (10,60 & 500Hz)
Standard	IEC 60898, EN 60898



Auxiliary switch PS ETIMAT

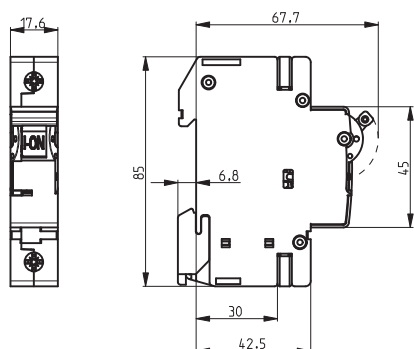
Technical data

Rated current	6A (230 V AC), 1A (110 V DC), 0,5A (220V DC)
Terminal	1-4mm ² , max 0,5Nm
Terminal screw	M3 (PH1)
Contact	1 xb-contact (NC) 1 xa-contact (NO)
Conditional short-circuit current	1 kA with fuse-link 20 A
Mounting position	any
Standard	EN-62019



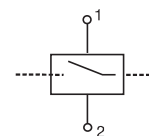
PS ETIMAT is an auxiliary switch only for ETIMAT 6.

Shunt trip release DA ETIMAT



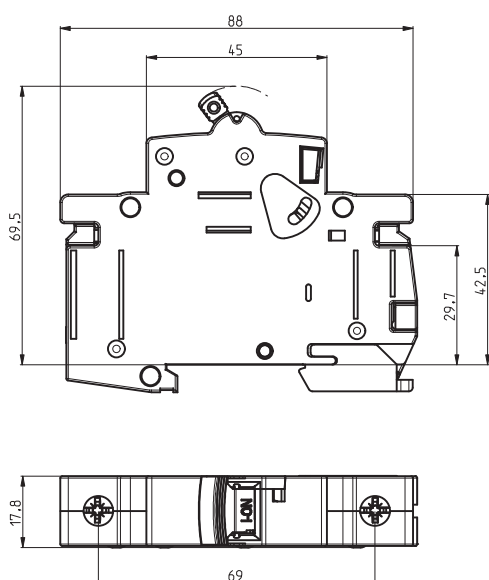
Technical data

Nominal voltage	24V AC/DC, 48V AC/DC, 230V AC/DC
Rated frequency	50/60Hz
Max. inrush current	3,6 A
Terminals	1-25mm ² , max 3Nm
Terminal Screw	M5 (Pozidrive PZ2)
Build-in width	18mm
Mounting position	any
Mounting on the rail	EN 60715 (EN 50022)



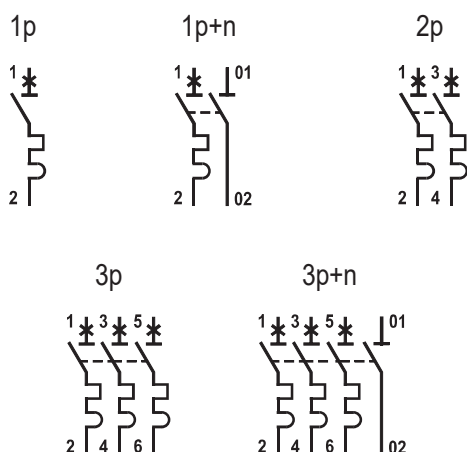
DA ETIMAT is a shunt trip release only for ETIMAT 6.

Miniature circuit breaker ETIMAT P10



Technical data

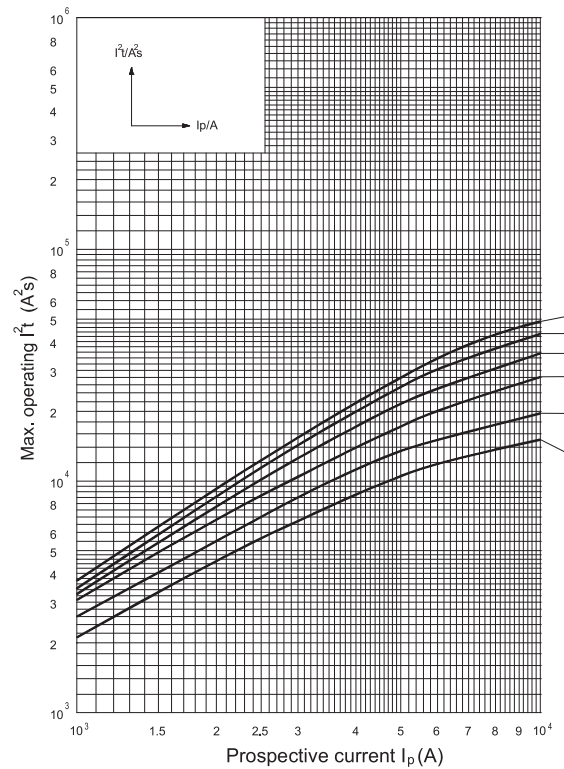
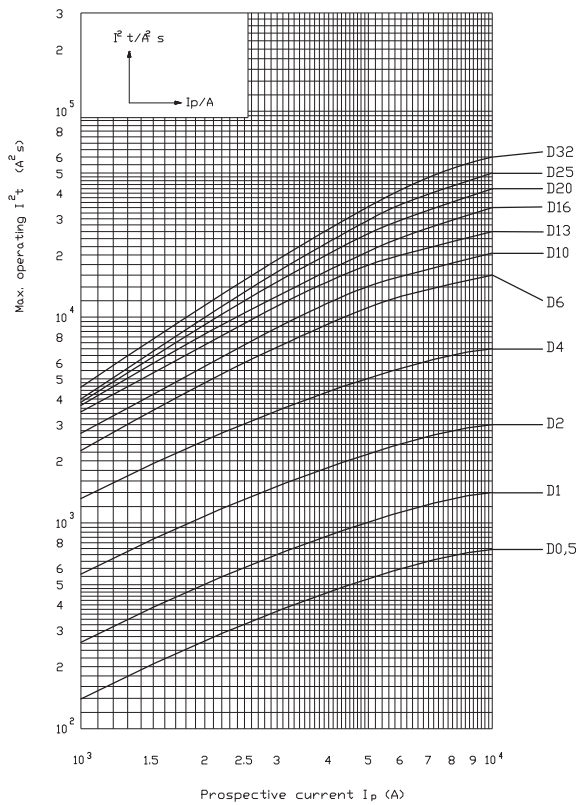
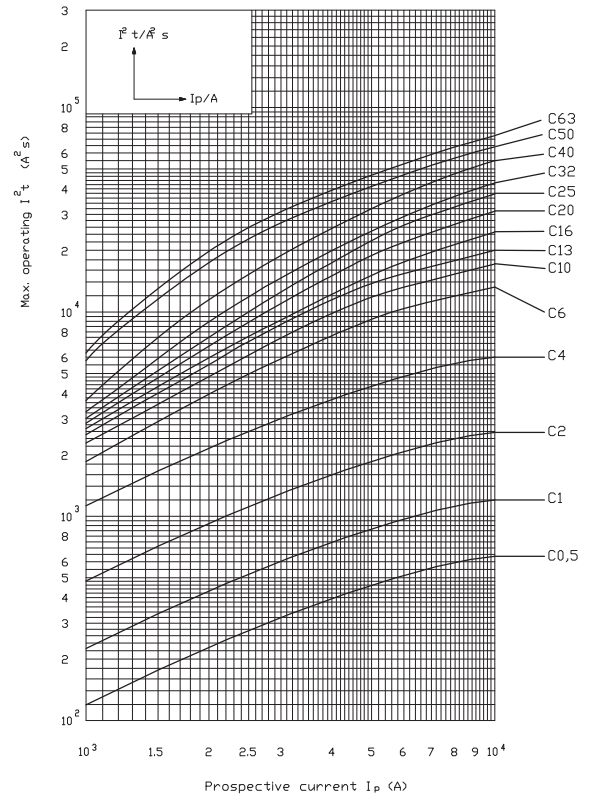
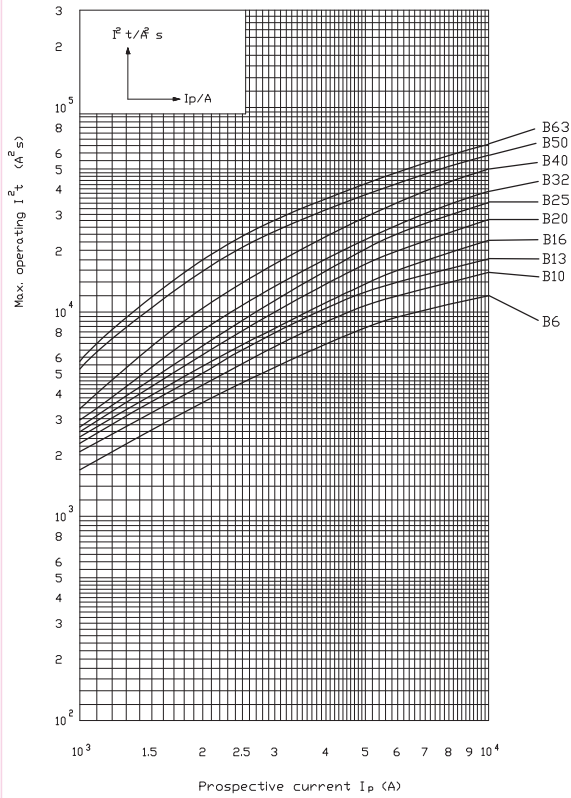
Rated voltage	230/400 V AC; max. 60 V DC / pole
Rated current	B:1-63A, C:0.5-63A, D:0.5-32A, K, Z:0.5-32A
Rated frequency	50/60Hz
Shock resistance	30g.min. 2 shocks, t = 13ms
Rated short-circuit capacity	10 kA
Energy limiting class	3; B,C
Tripping characteristic	B, C, D, K, Z
Back-up fuse	100A gG
Index of protection	IP 20 (IP 40)
Terminals	1-25mm ² , max. 2,5Nm
Terminal screw	M5 (Pozidrive PZ2)
Mechanical endurance	20000 op.c.
Electrical endurance	20000 op.c. (I _n ≤ 32A), 10000 op.c. (I _n > 32A)
Ambient temperature	max. -25°C ... +55°C
Storage temperature	max. -40°C ... +70°C
Supply possibility	top or bottom
Build-in width	18 mm/pol
Insulating class	B
Overvoltage category	III
Mounting on the rail	EN 60715
Mounting position	any
Sealing possibility	✓
Terminal cover	✓
Locking device	✓
Resistance to vibrations acc. to IEC 60068-2-7	5g (10,60 & 500Hz)
Standards	EN 60898, IEC 60898, IEC 60947-2

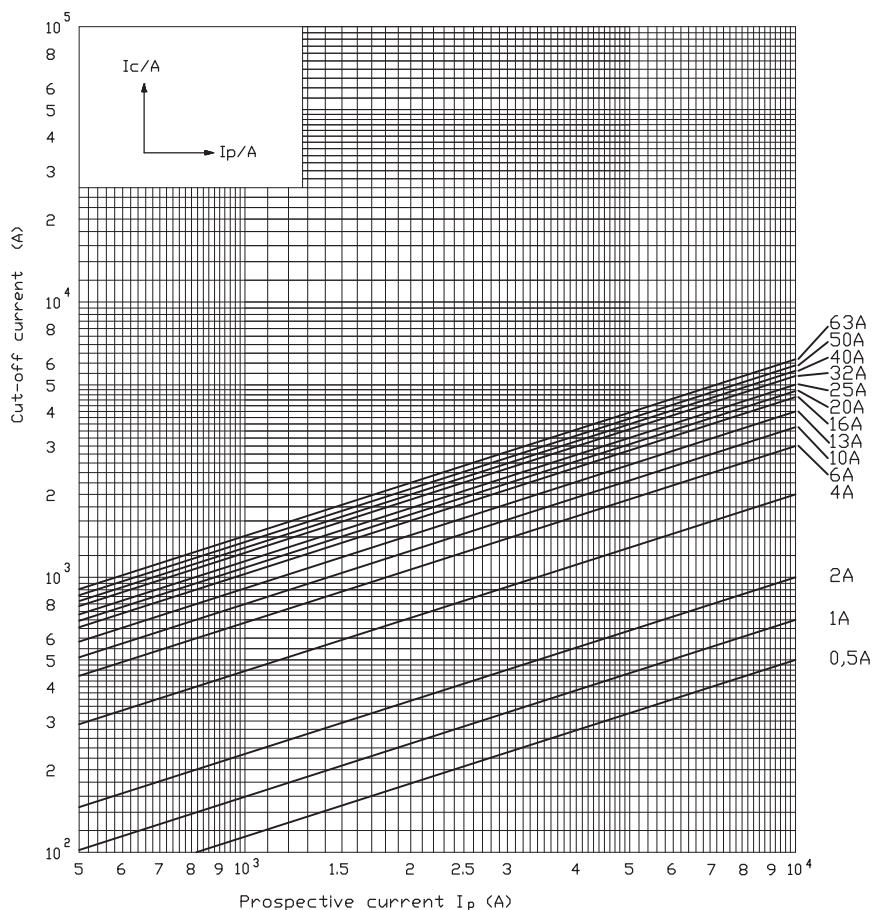


Tripping characteristics

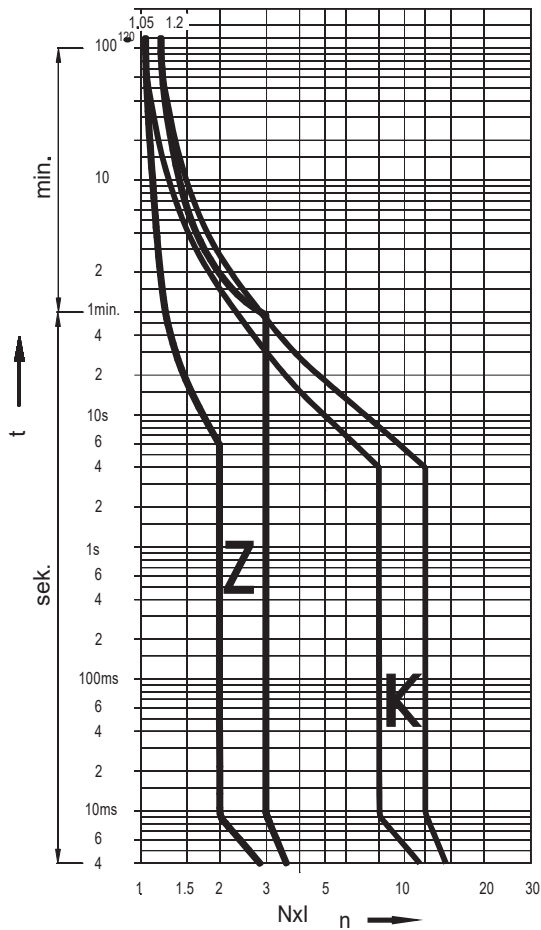
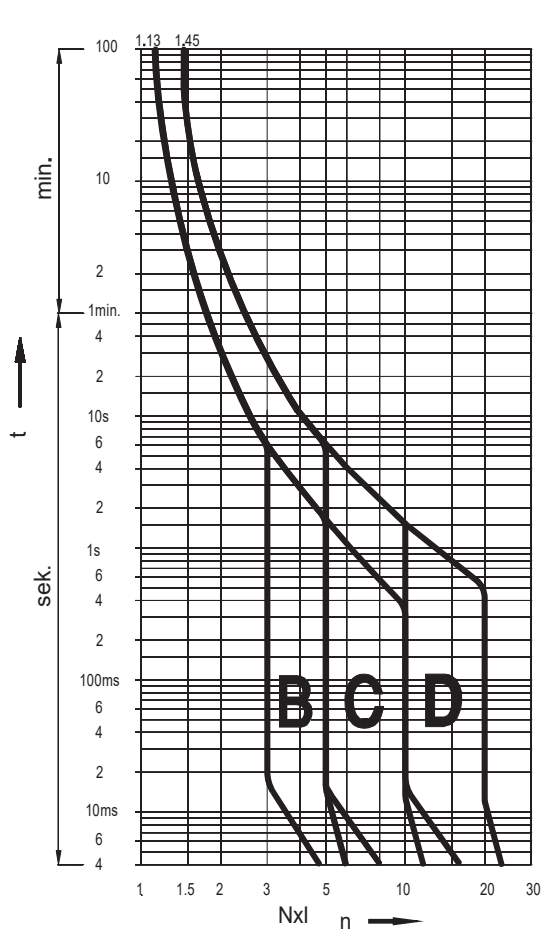
Characteristic	Test current	Tripping time	Result
B, C, D	1,13 I _n	t ≥ 3600 s	No tripping
B, C, D	1,45 I _n	t < 3600 s	Tripping
B, C, D	2,55 I _n	1s < t < 60 s	Tripping
B	3,00 I _n	t ≤ 0,1 s	No tripping
C	5,00 I _n	t ≤ 0,1 s	No tripping
D	10,00 I _n	t ≤ 0,1 s	No tripping
B	5,00 I _n	t < 0,1 s	Tripping
C	10,00 I _n	t < 0,1 s	Tripping
D	20,00 I _n	t < 0,1 s	Tripping
K	1,05 I _n	t > 7200 s	No Tripping
K	1,20 I _n	t < 7200 s	Tripping
K	8,00 I _n	t ≤ 0,2 s	No Tripping
K	12,00 I _n	t < 0,2 s	Tripping
Z	2,00 I _n	t ≤ 0,2s	No Tripping
Z	3,00 I _n	t < 0,2s	Tripping

Technical data



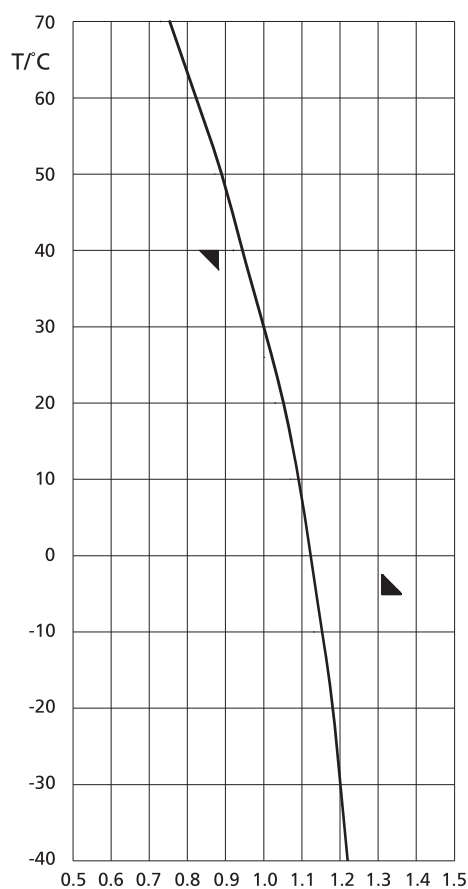


I/t characteristic at 50 and 60Hz



Technical data

Effect of the ambient temperature on the tripping characteristic



Correction factor is valid for current with times over 30 s
 $I(x^{\circ}\text{C})$ - test current at x ambient temperature
 $I(30^{\circ}\text{C})$ - test current at 30°C ambient temperature

$$k = \frac{I(x^{\circ}\text{C})}{I(30^{\circ}\text{C})}$$

I_n [A]	Ambient temperature $T/^{\circ}\text{C}$											
	-40	-30	-20	-10	0	10	20	30	40	50	60	70
0,5	0,61	0,6	0,59	0,57	0,56	0,54	0,52	0,5	0,47	0,44	0,41	0,38
1	1,22	1,2	1,18	1,15	1,12	1,09	1,05	1	0,94	0,88	0,82	0,75
1,6	1,95	1,92	1,89	1,84	1,79	1,74	1,68	1,6	1,51	1,42	1,32	1,2
2	2,44	2,4	2,36	2,30	2,24	2,18	2,1	2	1,88	1,77	1,65	1,5
4	4,88	4,8	4,72	4,61	4,49	4,36	4,20	4	3,77	3,55	3,29	3
6	7,32	7,2	7,09	6,91	6,73	6,54	6,31	6	5,66	5,33	4,94	4,5
10	12,2	12	11,8	11,5	11,2	10,9	10,5	10	9,44	8,89	8,23	7,5
13	15,9	15,6	15,4	14,9	14,5	14,1	13,6	13	12,2	11,5	10,7	9,75
16	19,5	19,2	18,9	18,4	17,9	17,4	16,8	16	15,1	14,2	13,2	12
20	24,4	24	23,6	23	22,4	21,8	21	20	18,8	17,7	16,5	15
25	30,5	30	2,5	28,8	28	27,2	26,3	25	23,6	22,2	20,6	18,8
32	39	38,4	37,8	36,9	35,9	34,9	33,6	32	30,2	28,4	26,3	24
40	48,8	48	47,8	46,1	44,9	43,6	42	40	37,7	35,5	32,9	30
50	61	60	59,1	57,6	56,1	54,5	52,6	50	47,2	44,4	41,2	37,5
63	76,9	75,6	74,4	72,6	70,7	68,7	66,2	63	59,4	56	51,9	47,3

Conductor cross-section [mm ²]	Number of single conductors, rigid, single-wire CU conductor				
	1	2	3	4	5
1,5	✓	✓	✓	✓	✗
2,5	✓	✓	✓	✗	✗
4	✓	✓	✓	✗	✗
6	✓	✓	✗	✗	✗
10	✓	✓	✗	✗	✗
16	✓	✗	✗	✗	✗
25	✓	✗	✗	✗	✗

Remark: When you use more than 2 cables you have to be careful how those cables are inserted, due to insure proper pressure on each cable

Conductor cross-section [mm ²]	Number of single conductors, flexible Cu conductors without cable ferrule					
	1	2	3	4	5	6
1,5	✓	✓	✓	✓	✓	✓
2,5	✓	✓	✓	✓	✓	✓
4	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	✗	✗	✗
10	✓	✓	✗	✗	✗	✗
16	✓	✗	✗	✗	✗	✗
25	✓	✗	✗	✗	✗	✗

Combination of rigid single-wire and flexible multi-wire Cu conductors is not allowed