

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	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
10 kA

Rated current
0,5 - 63 A

Tripping characteristic
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

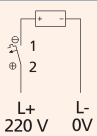
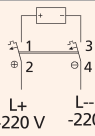
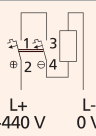
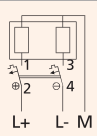


2-pole

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



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 breakers

Undervoltage release UA ETIMAT P10

Type	Code No.	Weight [g]	Packaging [pcs]
UA ETIMAT P10/ 230 V	782520101	96,1	1/12
UA ETIMAT P10 / 48V	780620102	96,1	1/12



Miniature circuit breaker ETIMAT10 80 -125A

Rated short-circuit capacity
15, 20 kA

Rated current
80 - 125 A

Tripping characteristics
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

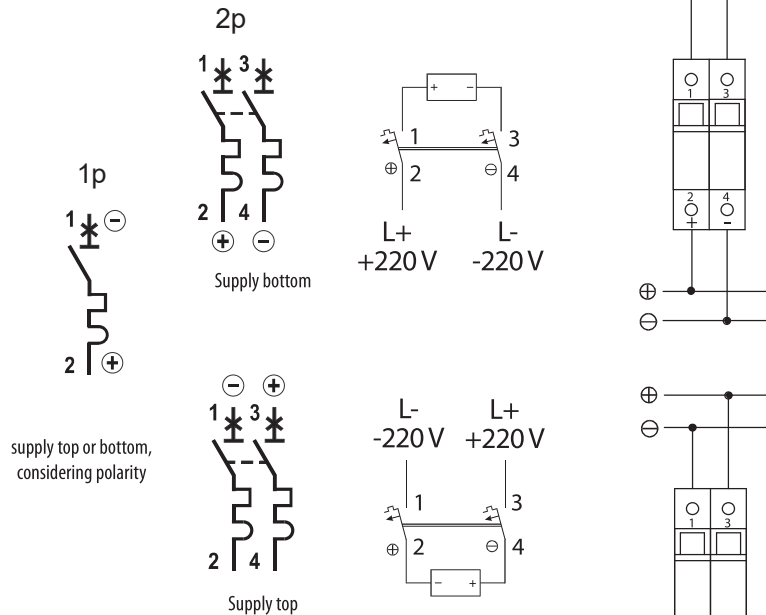
I_n [A]	Code No. B	Code No. C	Code No. D	Weight [g]	Packaging [pcs]
80	002125731	002135731	002155731	696	1/18
100	002125732	002135732	002155732	696	1/18
125	002125733	002135733		696	1/18



Miniature circuit breaker ETIMAT P10 DC

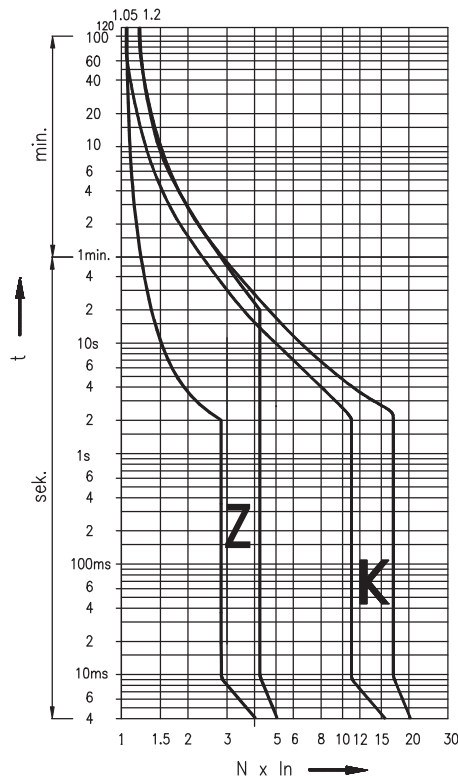
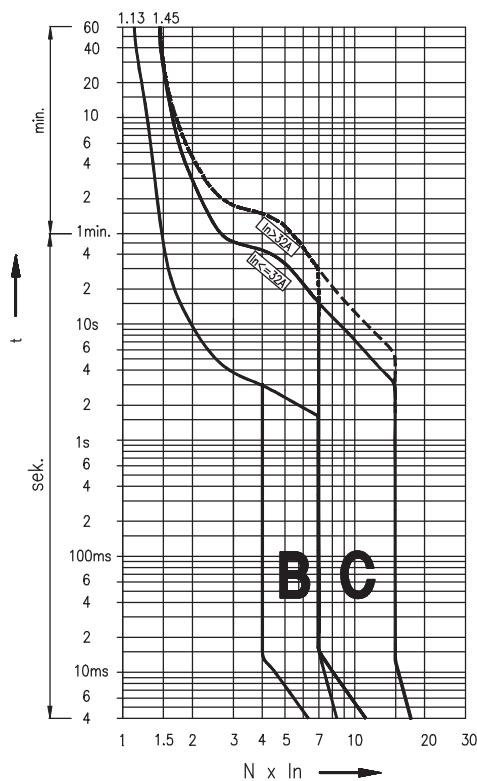
Technical data

Rated voltage - for 1-pole U_n	220 V DC
- for 2-pole U_n	220 V / 440 V DC
Rated time constant L/R	4 ms
Rated current I_n	0,5-32A (K & Z), 0,5-63A (C), 2-63A (B)
Rated short-circuit capacity	10 kA
Tripping characteristic	B, C, K, Z
Energy limiting class	3
Insulating class	B
Back-up fuse	100 A gG
Terminals	1-25mm ² , max. 2,5Nm
Terminal screw	M5 (Pozidrive PZ2)
Mounting position	any
Resistance to vibrations (IEC 60068-2-7)	5g (10,60 & 500Hz)
Standards	IEC 60898, EN 60898, DIN VDE 0641



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				



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

Technical data

Auxiliary signal switch PS/SS E P10

Technical data

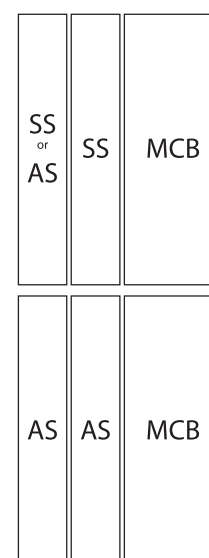
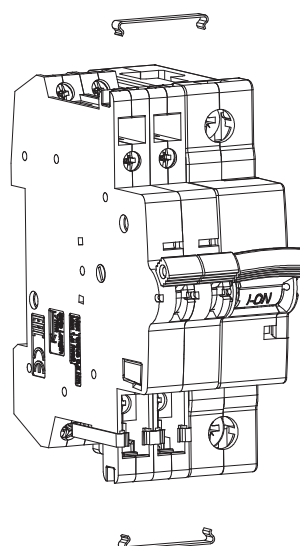
Function	Auxiliary or Signal Switch
Rated voltage	230V AC/DC, 110V DC
Rated current	6A (230V AC); 1A (110V DC); 0,5A (220V DC)
Rated frequency	50/60Hz, DC
Index of protection	IP 20 (IP 40)
Terminal capacity	1,5mm ²
Terminal Screw	M3 PH1
Terminal torque	max 0,5Nm
Ambient temperature	-25°C to +40°C
Storage temperature	-40°C to +70°C
Contacts	1x NC, 1x NC/NO
Mounting position	any
Standards	EN 62019



AUX switch connections	status of the breaker	
	ON	OFF
11-14 NO	1	0
11-12 NC	0	1
21-22 NC	0	1

Signal switch connections	status of the breaker		
	ON	manual trip	overcurrent trip
11-14 NO	1	1	0
11-12 NC	0	0	1
21-22 NC	0	0	1

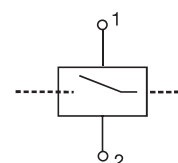
NO - Normally open contact --> during the activation it makes a contact
 NC - Normally closed contact --> during the activation it brakes the contact
 1 - contact
 0 - without a contact



Shunt trip release DA ETIMAT P10

Technical data

Rated voltage	12-60V AC/DC, 110-250V AC/DC
Rated frequency	50/60Hz, DC
Max inrush current	3A
Index of protection	IP 20 (IP 40)
Terminals	1-25mm ² , max. 2,5Nm
Ambient temperature	M5 (Pozidrive PZ2)
Terminal screw	max. 35°C
Storage temperature	max. -40°C to +70°C
Mounting on the rail	EN 60715
Mounting position	any
Sealing possibility	✓
Terminal cover	✓
Locking device	✓



Note: Same dimensions as ETIMAT P10