

MCBs - Miniature circuit breakers ETIMAT P

Advantages of miniature circuit breakers ETIMAT P

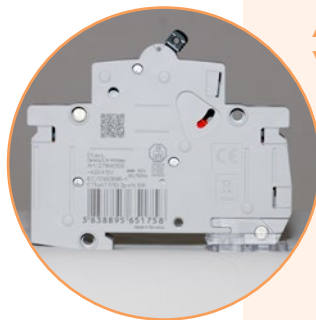
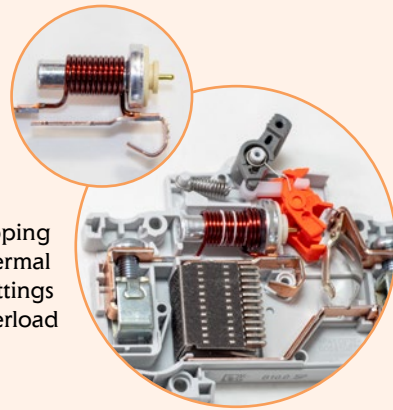


TESTED AND PROVEN QUALITY OF EACH MCB PRODUCED EXACT TRACEABILITY AND HIGHEST QUALITY CONTROL

- Fully automated assembly line with 17 different tests and measurements during assembly process to ensure best functionality of each finished product
- All important components are marked with a DMC code, containing individual test results and thus ensuring exact traceability and highest quality control of every MCB

UNIQUE TECHNOLOGY FOR PRECISE OVERLOAD TRIPPING THROUGH THE ENTIRE LIFE CYCLE

While other MCBs on the market are adjusted to the desired tripping characteristic afterwards, ETIMAT P uses a new integrated thermal release, preventing both manual tampering of overload settings and material deterioration, ensuring a precise and reliable overload tripping through the entire life cycle of the MCB.



ALL REQUIRED DATA READILY AVAILABLE WITH A SINGLE QR CODE SCAN

- Every product has a QR code with a link to the product webpage with all relevant information, instruction manuals and other technical materials.
- All important technical data is printed on the front and side of the MCB
- Every product is marked with EAN code

SUPERIOR TECHNICAL FEATURES

- reduced power dissipation
- high electrical endurance: 20.000 operation cycles
- operation in DC circuits with voltage up to 60V DC/pole
- construction solutions protected by two European patents



SPECIAL VERSIONS TOGGLE POSITION INDICATES TRIPPING LESS ROOM FOR USER ERROR

- Reset version:
In case of overcurrent, the button moves to the "trip" (middle) position. In case of manual turn off, the button moves to the "off" (lowest) position (only ETIMAT P10).

Miniature circuit breakers

WIDE RANGE OF AUXILIARY DEVICES AND ACCESSORIES AND EASE OF INSTALLATION

→ possibility of mounting up to 3 auxiliary / signal switches



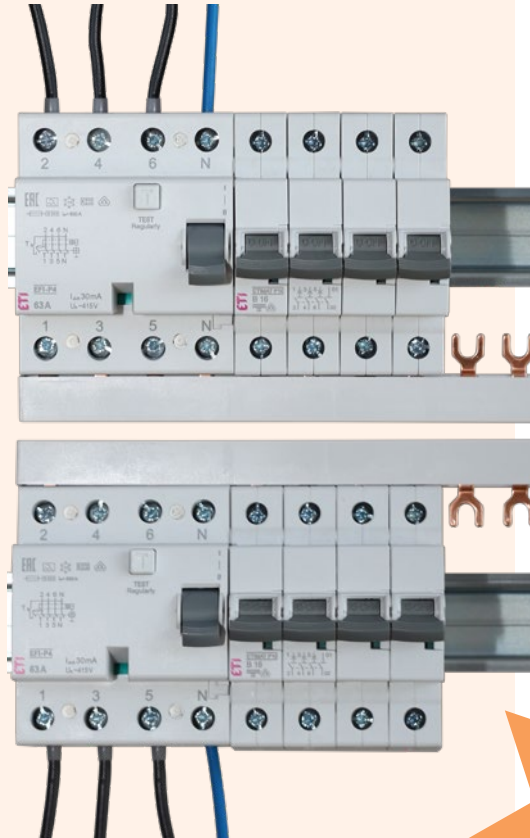
→ Terminal cover



→ Locking device



→ Double connection possibility - all MCBs can be simultaneously connected to busbar and conductor, both from above and below



→ supply possibility from top or bottom

→ possibility to connect wires to terminals up to 25 mm²

→ same profile as our other modular devices resulting in a coordinated and streamlined look to the installation

AVAILABLE IN 2023

ATTENTION TO DETAILS

→ Trip-free mechanism ensures that MCB trips even if the toggle is held in ON position

→ Separate indication of contacts' real state (independent of the toggle position) ensures additional user safety

→ green flag: contacts open, red flag: contacts closed

→ Better protection of terminals against touching the parts under voltage



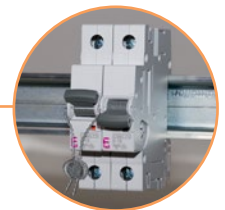
→ Sturdy pins on 4-module devices



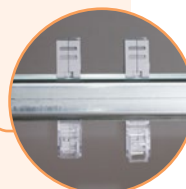
→ "ON/OFF" mark on the switch button



→ Possibility of sealing in "ON" or "OFF" position



→ Space for labeling



→ NO WOBBLE™ technology new snapping unit enables easy, firm and secure DIN-rail mounting and replacement

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	Packaging [pcs]
0,5	415	-	001901321	001901341	001901361	001901381	4/36
1	415	001901302	001901322	001901342	001901362	001901382	4/36
1,6	415	001901303	001901323	001901343	001901363	001901383	4/36
2	415	001901304	001901324	001901344	001901364	001901384	4/36
3	415	001901305	001901325	001901345	001901365	001901385	4/36
4	415	001901306	001901326	001901346	001901366	001901386	4/36
6	415	001901307	001901327	001901347	001901367	001901387	4/36
10	415	001901308	001901328	001901348	001901368	001901388	4/36
13	415	001901309	001901329	001901349	001901369	001901389	4/36
16	415	001901310	001901330	001901350	001901370	001901390	4/36
20	415	001901311	001901331	001901351	001901371	001901391	4/36
25	415	001901312	001901332	001901352	001901372	001901392	4/36
32	415	001901313	001901333	001901353	001901373	001901393	4/36
40	415	001901314	001901334	001901354	-	-	4/36
50	415	001901315	001901335	001901355	-	-	4/36
63	415	001901316	001901336	-	-	-	4/36


3-pole + N

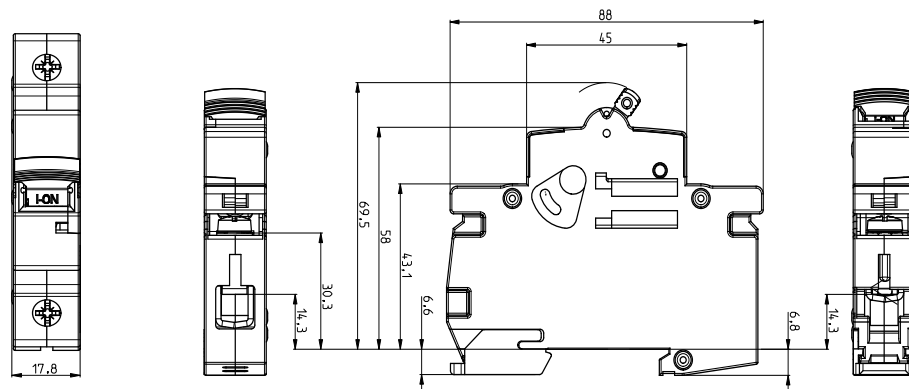
I_n [A]	U_n [V]	Code No. B	Code No. C	Code No. D	Code No. K	Code No. Z	Packaging [pcs]
0,5	415	-	001901421	001901441	001901461	001901481	3/27
1	415	001901402	001901422	001901442	001901462	001901482	3/27
1,6	415	001901403	001901423	001901443	001901463	001901483	3/27
2	415	001901404	001901424	001901444	001901464	001901484	3/27
3	415	001901405	001901425	001901445	001901465	001901485	3/27
4	415	001901406	001901426	001901446	001901466	001901486	3/27
6	415	001901407	001901427	001901447	001901467	001901487	3/27
10	415	001901408	001901428	001901448	001901468	001901488	3/27
13	415	001901409	001901429	001901449	001901469	001901489	3/27
16	415	001901410	001901430	001901450	001901470	001901490	3/27
20	415	001901411	001901431	001901451	001901471	001901491	3/27
25	415	001901412	001901432	001901452	001901472	001901492	3/27
32	415	001901413	001901433	001901453	001901473	001901493	3/27
40	415	001901414	001901434	001901454	-	-	3/27
50	415	001901415	001901435	001901455	-	-	3/27
63	415	001901416	001901436	-	-	-	3/27



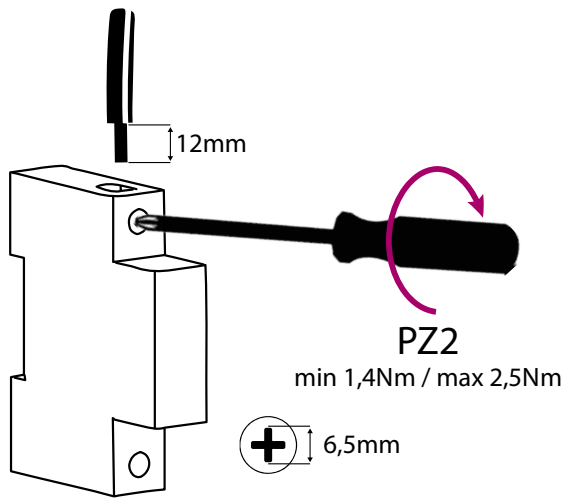
Circuit breakers type ETIMAT P10 / 3-pole + N are suitable for use as 4-pole circuit breakers

Miniature circuit breaker ETIMAT P10 - NEW GENERATION

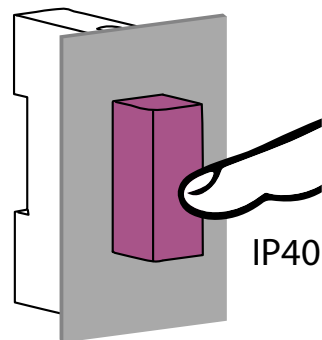
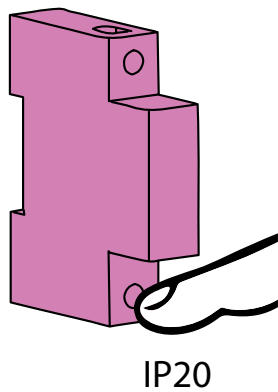
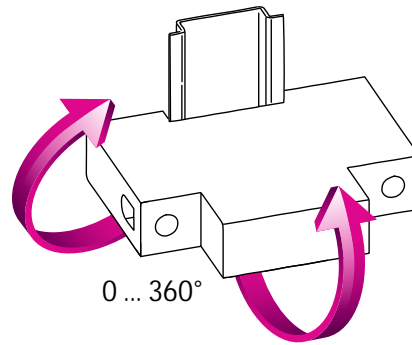
Technical data	
Rated voltage	240/415V AC; max 60V DC/pol
Min. operating voltage	12V AC/DC
Max operating voltage	250/440V AC
Rated current	B:1-63A, C:0.5-63A,D:0.5-63A, K&Z:0.5-32A
Rated frequency	50/60Hz
Rated insulation voltage	500V
Rated impulse withstand voltage	6kV (acc. to 60947-2)
Shock resistance	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 , min 1,4Nm / max 2,5Nm
Terminal screw	M5 (Pozidrive PZ2)
Mechanical endurance	20.000 op. cycles
Electrical endurance	20.000 op. cycles
Ambient temperature	max -40°C ... +70°C
Storage temperature	max -60°C ... +70°C
Supply possibility	top or bottom
Build-in width	18mm/pol
Insulating class	B
Overvoltage category	III
Pollution degree	2
Mounting on the rail	EN 60715
Mounting position	any
Sealing possibility	✓
Terminal cover	✓
Contact position indicator	✓
Locking device	✓
Resistance to vibrations acc. to IEC 60068-2-7	5g (10,60 & 500Hz)
Standards	IEC/EN 60898-1, 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, Z	1,05 I _n	t > 7200 s	No Tripping
K, Z	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



Any mounting position



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

