## 

## Description

Circuit breaker combined with illuminated ON/OFF rocker switch in a miniaturised design

## Features

- For snap-in mounting, actuator design: rocker switch. For other mounting and actuator designs, please refer to the additional 1410 data sheets.
- Current rating range 0.63... 10 A
- Rated voltage range AC 125/250 V, DC 28 V, DC 60 V
- Very fast trip curve through globally unique hot wire principle
- Reliable overcurrent trip through snap action and trip-free mechanisms
- Trip behaviour is independent from the ambient temperature
- Rocker illumination


## Typical applications

Transformers, motors and gear protection in household appliances and office equipment as well as hand tools

## Benefits

- Perfect combination of fuse replacement and ON/OFF switch thanks to compact dimensions and suitable current ratings
- Maximum device availability: after an overcurrent trip, the circuit breaker can be immediately reset, no fuse replacement required
- Fast trip curve ensures on-time disconnection and protection of sensitive components on printed circuit boards
- Rocker illumination indicates the switching status clearly visible. Optionally with illumination after an overcurrent trip


## Compliance

## CE UK RoHS/REACY

## Approvals

| Approval <br> authority | Standard | Rated <br> voltage | Current rating <br> range |
| :--- | :--- | :--- | :--- |
| UL | UL 1077 | AC 250 V <br> DC 60 V | $0.63 \mathrm{~A} . .10 \mathrm{~A}$ <br> $0.63 \mathrm{~A} . .5 \mathrm{~A}$ <br> DC 50 V |
| CSA | C2.5 A..8 A <br> 235 | AC 125 V <br> DC 48 V | $0.63 \mathrm{~A} . . .8 \mathrm{~A}$ |



Ordering number code
Type No.
1410 Circuit breakers with thermal trip principle Mounting method
F Snap-in mounting
Size
1 Panel cut-out $28 \times 12.7$
Number of poles
1 1-pole, thermally protected
Design, accessories
0 none
Terminal design
P1 Blade terminals according to IEC 61210, $2.8 \times 0.8 \mathrm{~mm} / 6.3 \times 0.8 \mathrm{~mm}$, silver-plated
Characteristic curve F1 Fast trip curve

Actuator
W Rocker switch, rounded
Actuator colour
14 red translucent
Actuator marking
Q I and O on actuator surface
Illumination
E Rocker illuminated in ON-position $\qquad$
B Rocker illuminated
after tripping
Itage
(Standard) range
2 20-28 V nominal value 24 V AC/DC
3 90-140 V nominal value 115 V AC
4 185-275 V nominal value 230 V AC
Current rating range 0.63 ... 10 A

E 3-2 A
1410-F11 O- P1 F1- W14Q
Ordering example

## Please observe our minimum order quantities.

## Current ratings $I_{N}$ and typical internal

 resistance values| Current <br> rating (A) | Internal <br> resistance <br> $(\Omega)$ | Current <br> rating (A) | Internal <br> resistance <br> $(\Omega)$ |
| :--- | :--- | :--- | :--- |
| 0.63 | 1.8 | 3.15 | $<0.12$ |
| 1 | 1.3 | 4 | $<0.1$ |
| 1.5 | $<1$ | 5 | $<0.1$ |
| 2 | $<1$ | 6.3 | $<0.1$ |
| 2.5 | $<0.15$ | 8 | $<0.1$ |
|  |  | 10 | $<0.1$ |

Dimensions

1410-F...-...-....B.


1410-F...-...-....E.

panel cut-out


## ETVA゚ Thermal Circuit Breaker 1410-F1...

## Note

- In the event of an overcurrent release, the rocker remains in ON position. The circuit breaker can be switched on again via the OFF position (reset).
- We recommend illumination version $B$ as overcurrent release indication.


## Schematic diagrams

1410-F...-...-....B.
1410-F...-...-....E.

lamp current:
$24 \mathrm{~V}=35 \mathrm{~mA}$
$115 \mathrm{~V}<1 \mathrm{~mA}$
$115 \mathrm{~V}<1 \mathrm{~mA}$
$230 \mathrm{~V}<1 \mathrm{~mA}$

Time/current characteristics


Installation drawing


All information and data given on our products are accurate and reliable to the best of our knowledge, but E-T-A does not accept any responsibility for the use in applications which are not in accordance with the present specification. E-T-A reserves the right to change specifications at any time in the interest of technical improvement. Dimensions are subject to change without notice. Please enquire for the latest dimensional drawing with tolerances if required. All dimensions, data, pictures and descriptions are for information only and are not binding. Amendments, errors and omissions excepted. Product part numbers may differ from their marking.

