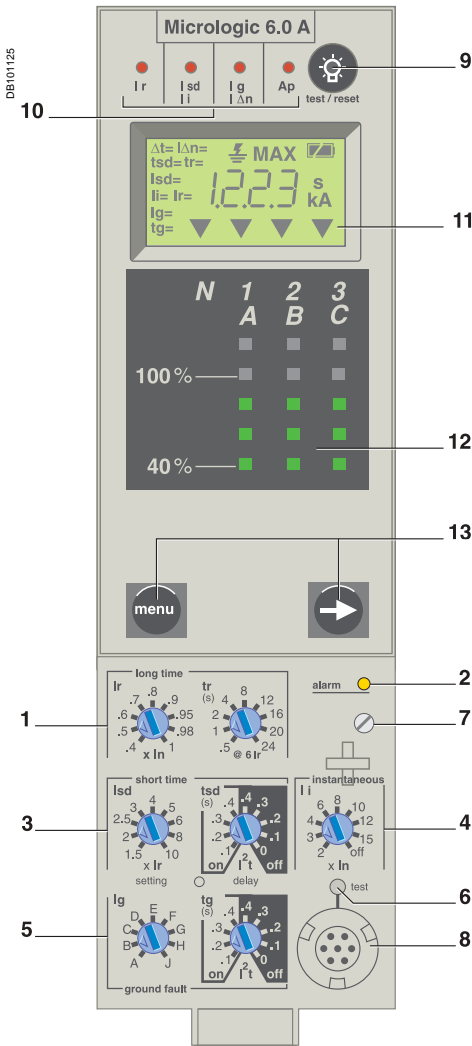


Micrologic A control units protect power circuits.
They also offer measurements, display, communication and current maximeters.
Version 6 provides earth-fault protection, version 7 provides earth-leakage protection.



- 1 Long-time current setting and tripping delay.
- 2 Overload signal (LED) at 1.125 I_r.
- 3 Short-time pick-up and tripping delay.
- 4 Instantaneous pick-up.
- 5 Earth-leakage or earth-fault pick-up and tripping delay.
- 6 Earth-leakage or earth-fault test button.
- 7 Long-time rating plug screw.
- 8 Test connector.
- 9 Lamp test, reset and battery test.
- 10 Indication of tripping cause.
- 11 Digital display.
- 12 Three-phase bargraph and ammeter.
- 13 Navigation buttons.

Note: Micrologic A control units come with a transparent lead-seal cover as standard.

Protection settings

Protection thresholds and delays are set using the adjustment dials.
The selected values are momentarily displayed in amperes and in seconds.

Overload protection

True rms long-time protection.
Thermal memory: thermal image before and after tripping.
Setting accuracy may be enhanced by limiting the setting range using a different long-time rating plug.
The long-time rating plug "OFF" enables to cancel the overload protection.

Short-circuit protection

Short-time (rms) and instantaneous protection.
Selection of I²t type (ON or OFF) for short-time delay.

Earth fault protection

Residual or source ground return.
Selection of I²t type (ON or OFF) for delay.

Residual earth-leakage protection (Vigi).

Operation without an external power supply.
⌋ Protected against nuisance tripping.
~ DC-component withstand class A up to 10 A.

Neutral protection

On three-pole circuit breakers, neutral protection is not possible.
On four-pole circuit breakers, neutral protection may be set using a three-position switch: neutral unprotected (4P 3d), neutral protection at 0.5 I_n (4P 3d + N/2), neutral protection at I_n (4P 4d).

Zone selective interlocking (ZSI)

A ZSI terminal block may be used to interconnect a number of control units to provide total discrimination for short-time and earth-fault protection, without a delay before tripping.

"Ammeter" measurements

Micrologic A control units measure the true rms value of currents.
They provide continuous current measurements from 0.2 to 20 I_n and are accurate to within 1.5% (including the sensors).
A digital LCD screen continuously displays the most heavily loaded phase (I_{max}) or displays the I₁, I₂, I₃, I_N, I_g, I_{Δn}, stored-current (maximeter) and setting values by successively pressing the navigation button.
The optional external power supply makes it possible to display currents < 20 % I_n. Below 0.05 I_n, measurements are not significant. Between 0.05 and 0.2 I_n, accuracy is to within 0.5% I_n + 1.5% of the reading.

Communication option

In conjunction with the COM communication option, the control unit transmits the following:

- setting values
- all "ammeter" measurements
- tripping causes
- maximeter reset.