*symbolic image*

# *DATA SHEET*

## *FIC 13/0,01/1+N-A*

***pulsating AC/DC-sensitive type A, Characteristic C***

***Article number 09952153***

Internetlink

### *Function*

Residual current operated circuit-breakers with integral overcurrent protection (RCBO) are miniature circuit-breakers with residual current trips for protecting systems in the event of a short-circuit and overload as per the requirements of VDE 0100 Part 430, and for protecting persons, farm animals and material items in the event of earth leakage currents as per VDE 0100 Part 410. Overload tripping occurs at currents in the overload range through a slow-blow, heat-sensitive bimetal trip and at short-circuit currents through an electromagnetic instantaneous trip. FIB and FIC of this series are fitted with a high rated switching capacity of 10 kA. They are available in 1+N design. RCBOs with residual current characteristic A are independent of the mains voltage and allow the detection of sinusoidal AC currents and pulsating DC residual currents. RCBOs with tripping characteristic C are primarily suitable for power circuits with high switch-on or peak currents, as their short-circuit trip value is five to ten times the rated current. Devices in standard design are intended for monitoring circuits with a rated voltage of 230 V or 400 V and a rated frequency of 50 Hz, some series for 60 Hz, too.

### *Features*

mains-voltage-independent tripping, compact design for all rated currents, high short-circuit resistance, Switch position indicator, Screw terminals with strain-relief clamps with wide terminal cross-section range for rail and line wiring on both connection sides, Use of conventional wiring rails possible, Neutral conductor right, electromagnetic compatibility in accordance with VDE 0664-30 and VDE 0839-6-2 (interference resistance for industrial applications),

### *Mounting*

quick fastening to mounting rail, any installation position

### *Applications*

Protection of circuits in residential and purpose-built buildings as well as industrial facilities with TN-S and TN-C-S networks. In IT networks, the RCCB/MCBs can be set to switch off in the event of a second earth fault, Not permitted for use in systems with TN-C networks; not permitted for protecting circuits in which the power electronics equipment may cause smooth DC residual currents or residual currents with frequencies not equal to 50/60 Hz.

### *Accessories*

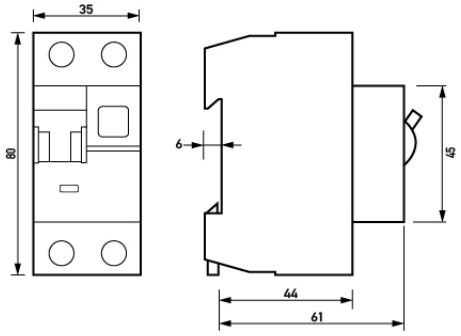
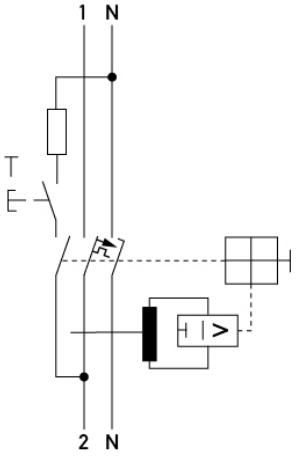
FAM 1, Hi 11

### *Technical Data*

| Technical Data | FIC 13/0,01/1+N-A |
|---|---|
| Series | FIC |
| Number of poles | 1+N |
| Residual current type | A |
| Rated current (AC) | 13 A |
| Rated residual current IΔn | 0.01 A |
| Short-time delayed | false |
| Selective | false |
| min. Operating voltage range of test circuit | 196 V |
| max. Operating voltage range of test circuit | 253 V |
| Neutral conductor position | right |
| Tripping characteristic | C |

| Technical Data | FIC 13/0,01/1+N-A |
|---|---|
| Operating voltage (AC) | 230 V (max. 253 V) |
| Operating frequency | 50 Hz |
| | Load circuit |
| Specification | Load switch contact |
| Rated voltage (AC) | 230 V |
| Rated current (AC) | 13 A |
| Rated short-circuit current | 10 kA |
| max. Output O1 total rated switching capacity | 10 kA |
| Rated frequency | 50 Hz |
| Current heat loss per current path | 3.4 W |
| short-circuit backup-fuse SCPD | 100 A |
| Back-up fuse type | gG |
| | Screw-type terminal top, bottom (Load circuit) |
| Clamping area | 1 mm² ... 25 mm² |
| Tightening torque | 2 Nm ... 2.4 Nm |
| General data description | General data |
| Operating position | any |
| Ambient temperature | -25 °C ... 40 °C |
| Housing type | Distributor housing |
| Mounting type | Mounting rail |
| Housing material | Thermoplastic resin |
| Protection class | IP40 |
| Width | 35 mm |
| Height | 80 mm |
| Depth | 74 mm |
| Installation depth | 68 mm |
| Width (modules) | 2 |
| Design requirements/Standards | EN 61009-1 |
| Certifications | VDE |
| Power limitation category | 3 |
| Degree of pollution according to EN 60664 | 2 |
| Overvoltage class | III |

## *Dimensions*



### *Wiring example*