symbolic image

DATA SHEET

FIB 40/0,03/1+N-A

pulsating AC/DC-sensitive type A, Characteristic B

Article number 09952108

Internetlink

10000 -25

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 characteristic B ensure standard protection for lighting and socket circuits. As their short-circuit trip is three to five times the rated current, they should not be used to fuse-protect load circuits with high switch-on currents. 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

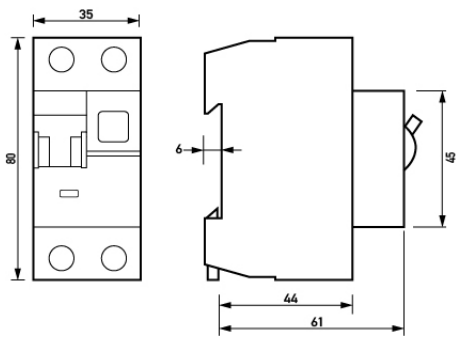
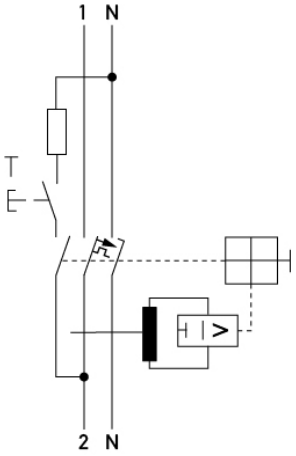
FAM 1, Hi 11

Technical Data

Technical Data	FIB 40/0,03/1+N-A
Series	FIB
Number of poles	1+N
Residual current type	A
Rated current (AC)	40 A
Rated residual current IΔn	0.03 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

Technical Data	FIB 40/0,03/1+N-A
Tripping characteristic	B
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)	40 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	8.2 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