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DATA SHEET
residual current operated circuit-breakers with integral overcurrent protection
RCBO 2 C16/0,03/2-A
sensitive to pulsating and alternating currents Type A
Article number 09957324



Function

RCCB/MCB combinations (RCBO) are residual current operated circuit-breakers with integral overcurrent protection 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 short-time delayed, heat-sensitive bimetal trip and at short-circuit currents through an electromagnetic instantaneous trip. The high-quality residual current operated circuit-breakers with integral overcurrent protection in the RCBO 2 series are independent of the mains voltage and have a high switching capacity of 10 kA. They have a 2-pole design. The residual current tripping indicator allows for a quick overview of the operating status of the devices. Two features make mounting and removal easier: terminal protection against wires being lodged behind them and the bi-stable snap-in slider. Type A residual current circuit-breakers are sensitive to pulsating and alternating currents. This function is independent of the mains voltage. 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.

Features

Mains-voltage-independent tripping, compact design for all rated currents, high short-circuit resistance, Residual current tripping indicator, Strain-relief clamps with protection against wires being lodged behind them and wide terminal cross-section range for rail and line wiring on both connection sides, Use of conventional wiring rails possible, Neutral conductor right, bi-stable snap-in slider for easy mounting and removal

Mounting

quick fastening to mounting rail, any installation position, supply as desired

Applications

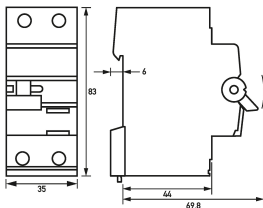
Power supplies to residential and purpose-built buildings as well as industrial facilities with TN-S, TT and TN-C-S networks. In IT networks, the RCBOs of this series can be set to switch off in the event of a second fault, Not permitted for use in TN-C networks and for protecting systems in which electronic equipment may cause pulsating or smooth DC residual currents or residual currents with frequencies not equal to 50 Hz. Comprehensive protection is not provided with an RCCB type AC. For these applications we recommend our residual current operated circuit-breakers with integral overcurrent protection Type A or our AC-DC sensitive RCBO Type B.

Technical Data

Technical Data	RCBO 2 C16/0,03/2-A
Series	RCBO 2
Number of poles	2
Residual current type	A
Rated current (AC)	16 A
Rated residual current IΔn	0.03 A
Short-time delayed	false
Selective	false
min. Operating voltage range of test circuit	200 V
max. Operating voltage range of test circuit	250 V
Tripping characteristic	C

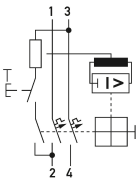
Technical Data	RCBO 2 C16/0,03/2-A
	load circuit
Specification	load disconnect contact
Rated voltage (AC)	230 V
Rated current (AC)	16 A
Rated short-circuit current	6 kA
Surge current strength	0.25 kA
max. Total rated switching capacity	10 kA
Rated frequency	50 Hz
Current heat loss per current path	3.4 W
Back-up fuse type	gG
	screw-type terminal top, bottom (load circuit)
Clamping area	1.5 mm² ... 25 mm²
Connection C1 Maximum number of conductors per terminal	2 (conductors of same type and cross-section)
Tightening torque	2 Nm ... 2.5 Nm
	General data
Mechanical endurance	min. 2000 switching cycles
Electrical endurance	min. 2000 switching cycles
Ambient temperature	-25 °C ... 40 °C
Housing type	distribution board housing
Installation type	Mounting rail (35 mm)
Housing material	thermoplastic
Protection class	IP20 (installed: IP40)
Width	35 mm
Height	83 mm
Depth	73 mm
Installation depth	65 mm
Module widths	2
Weight	0.232 kg
Design requirements/Standards	EN 61009, IEC 1009
Power limitation category	3

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram

