



DATA SHEET

Article number : 09934137

residual current operated circuit-breakers with integral overcurrent protection

DRCBO 2 C32/0,30/2-A

sensitive to pulsating and alternating currents Type
A



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 from series DRCBO 2 are independent of the mains voltage and have a high rated switching capacity of 10 kA. 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.

Accessories

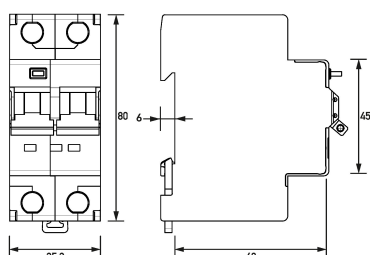
auxiliary switches DHi

Technical data

Series	DRCBO 2
Number of poles	2
Residual current type	A
Rated current (AC)	32 A
Rated residual current I _{Δn}	0.3 A
Short-time delayed	false
Selective	false
Tripping characteristic	C
Test current factor tripping electromagnetic	1.45
Test current factor retaining electromagnetic	1.13
Reference temperature thermal release	30 °C
Rated voltage (AC)	230 V
Rated current (AC)	32 A
Rated short-circuit current	6 kA
Surge current strength	3 kA
max. Total rated switching capacity	10 kA
Rated insulation voltage	250 V
Rated impulse withstand voltage	4 kV
Rated frequency	50 Hz
Short-circuit backup-fuse SCPD	100 A
Back-up fuse type	gL
Overvoltage class	III
	screw-type terminal top, bottom (load circuit)
Neutral conductor position	left or right
Protection against direct contact	VBG4, ÖVE-EN 6, finger and back-of-hand proof
Clamping area	1 mm ² ... 25 mm ²
Connection C1 Maximum number of conductors per terminal	2 (conductors of same type and cross-section)
Cross section solid	1-wire: 1 mm ² ... 25 mm ²
Connecting capacity flexible	1-wire: 1 mm ² ... 16 mm ²
Cross section stranded	1-wire: 1 mm ² ... 16 mm ²
Tightening torque	2 Nm ... 2.4 Nm
Thickness busbar	0.8 mm ... 2 mm

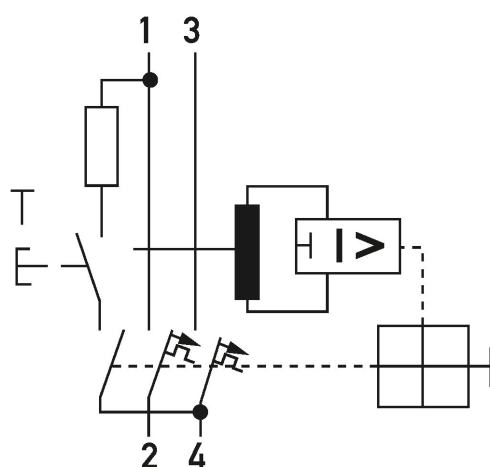
	General data
Mechanical endurance	min. 20000 switching cycles
Electrical endurance	min. 4000 switching cycles
Storage temperature	-40 °C ... 70 °C
Ambient temperature	-25 °C ... 40 °C
Climate resistance	According to IEC 68-2 (25–55°C / 90–95% RH) and IEC/EN 61009
Housing type	distribution board housing
Installation type	Mounting rail (35 mm)
Housing material	thermoplastic
Protection class	IP20 (installed: IP40)
Width	35 mm
Height	80 mm
Depth	74 mm
Installation depth	68 mm
Module widths	2
Weight	0.214 kg
Power limitation category	3
Degree of pollution	2

Dimensions



Dimensioned drawing residual current operated circuit-breakers with integral overcurrent protection DRCBO 2 C32/0,30/2-A

Wiring example



Wiring example residual current operated circuit-breakers with integral overcurrent protection DRCBO 2 C32/0,30/2-A