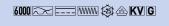


## DATA SHEET

# residual current operated circuit-breakers with integral overcurrent protection DRCBO 4 B32/0,10/3N-B SK



AC/DC sensitive type B Article number 09948157



#### **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 o100 Part 430, and for protecting persons, farm animals and material items in the event of earth leakage currents as per VDE o100 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 DRCBO 4 have a rated switching capacity of 6 kA. They provide a labelling area in addition to the tripping indicator. Type B residual current circuit-breakers detect smooth DC residual currents and all other residual currents at frequencies up to 150,000 Hz. The operating voltage required for this is taken from the mains supply. Correct power supply is ensured when the voltage between the mains conductors is ≥ 50 V. Pulsating and AC residual currents are detected independent of the mains voltage. Residual current circuit-breakers with the tripping characteristic curve SK ensure residual current protection and a high system availability. They are characterised by a lower response sensitivity at higher frequencies. The characteristic curve SK is optimised for systems in which no fire protection is required. They detect residual currents with frequencies up to 150,000 Hz. 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 inrush 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.

#### Features

AC/DC sensitive for residual currents with frequencies of o Hz (smooth direct current) up to 150 kHz, mains-voltage-independent tripping when type A residual currents occur, compact design for all rated currents, switch position indicator, separate indication of tripping cause, strain-relief clamps with a wide terminal cross-section range on both connection sides, neutral conductor right, labelling area

#### Mounting

quick fastening to mounting rail, any installation position, supply preferably from above

#### **Applications**

commercial and industrial installations with TT, TN-S and TN-C-S systems, where power electronics equipment is used without galvanic isolation from the mains, e.g. frequency converters, switching power supplies, high-frequency converters, photovoltaic installations and UPS equipment with frequency converters without transformers, RCBOs with characteristic curve SK can be used where high leakage currents are expected and fire protection is not required.

#### Notes

suitable for use in 50 Hz AC networks, RCBOs are also available for other frequencies upon request, not designed for use in direct current networks or on the output side of controlled electrical equipment such as frequency converters

#### Accessories

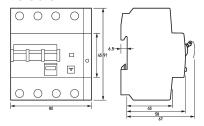
auxiliary switches DRCBO 4 Hi 2, wiring components DRCBO 4-busbars 4-pole

#### Technical Data

Technical Data	DRCBO 4 B32/0,10/3N-B SK
Series	DRCBO 4
Number of poles	3+N
Residual current type	В
Tripping characteristic curve	SK
Rated current (AC)	32 A
Rated residual current I∆n	0.1 A

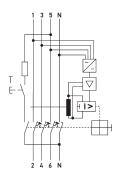
Technical Data	DRCBO 4 B32/0,10/3N-B SK
Protection class	IP20 (installed: IP40)
Width	8o mm
Height	91 mm
Depth	73.5 mm
Installation depth	67 mm
Module widths	4.5
Weight	o.323 kg
Design requirements/Standards	VDE 0664-20, VDE 0664-40, EN 61009-1, EN 62423, ÖVE/ÖNORM E 8601
Power limitation category	3
Degree of pollution	2
Certifications	VDE

### **Dimensions**

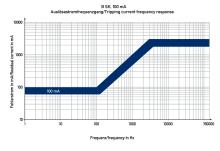


Dimensional drawing Group view

## Wiring example



## Diagrams



Characteristic B SK 100 mA

Wiring diagram