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6000 🔁 💷 WWW kHz 🕸 🕸 KV G

DATA SHEET

Article number 09949362

residual current operated circuit-breakers with integral overcurrent protection DRCBO 4 C10/0,10/1N-B+ AC/DC sensitive type B+, fire protection according to VDE 0100-420



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 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 20,000 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 \geq 50 V. Pulsating and AC residual currents are detected 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

AC/DC sensitive for residual currents with frequencies of o Hz (smooth direct current) up to 20,000 Hz, 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, Type B+ and type B RCBOs with characteristic curve NK should be used where fire protection is legally 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 2-pole, wiring components DRCBO 4-busbars 4-pole

Technical Data

Technical Data	DRCBO 4 C10/0,10/1N-B+
Series	DRCBO 4
Number of poles	1+N
Residual current type	B+
Rated current (AC)	10 A
Rated residual current IAn	0.1 A
Short-time delayed	true
Selective	false

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The experts in residual current protection technology

min. Operating voltage range of test circuit max. Operating voltage range of test circuit max. Operating voltage range of test circuit minimum rated operating voltage (Type A/AC operation) Non-trip time 1 or ms Tipping fraquency 0 H2 20 H42. Tipping fraquency 0 H2 20 H42. 0 Consection 1 H2 20 H42. Tipping fraquency 0 H2 20 H42. Tipping fraquency 0 H2 20 H42. Tipping fraquency 0 H2 20 H42. 0 A Rated fraquency 0 H2 20 H42. 0 A Rated fraquency 0 H42 20 H42. 0 A Rated fraquency 0 H42 40 H44. Rated fraquency 0 H42 40 H44. 0 A Rated fraquency 0 H42 40 H44. 0 A Rated fraquency 0 G 0 Veroltage Class 11 11.4 W 12 H44. 13 H44. 14 W 14 H44. 14 H44	Technical Data	DRCBO 4 C10/0,10/1N-B+
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voltage (Type A/AC operation) Minimum rated operating Voltage (Type B operation) Non-trip time So VAC Voltage (Type B operation) Non-trip time LoomS Tripping frequency OH:L20 kHz Maximum disconnection times Inline So oms; 5: 1An: ≤ 40 ms Tripping characteristic C C O Operating voltage (AC) max. 253 V Internal consumption max: 1.3 W Operating voltage (AC) Op		254 V
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Connecting capacity flexible1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Cross section stranded1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Tightening torque2 Nm 2.4 NmCoperating positionOperating and the coperation optionalMechanical endurancemin. 5000 switching cyclesElectrical endurancemin. 2000 switching cyclesClimate resistanceaccording to IEC 60068-2-30Shock resistance20 g / 20 ms DurationFatigue limit> 5 g (f ≤ 80 Hz, duration > 30 min.)Housing typeMounting rail (35 mm)Housing materialThermoplasticProtection classIP20 (installed: IP40)	number of conductors per	2 (conductors of same type and cross-section)
Cross section stranded1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Tightening torque2 Nm 2.4 NmGeneral dataOperating positionOperating positionoptionalMechanical endurancemin. 5000 switching cyclesElectrical endurancemin. 2000 switching cyclesClimate resistance-25 °C 40 °CClimate resistance20 g / 20 ms DurationFatigue limit> 5 g (f ≤ 80 Hz, duration > 30 min.)Housing typedistribution board housingInstallation typeMounting rail (35 mm)Housing materialIP20 (installed: IP40)	Cross section solid	1-wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ²
Tightening torque2 Nm 2.4 NmGeneral dataOperating positionoptionalMechanical endurancemin. 5000 switching cyclesElectrical endurancemin. 2000 switching cyclesAmbient temperature-25 °C 40 °CClimate resistanceaccording to IEC 60068-2-30Shock resistance20 g / 20 ms DurationFatigue limit> 5 g (f ≤ 80 Hz, duration > 30 min.)Housing typedistribution board housingInstallation typeMounting rail (35 mm)Housing materialIP20 (installed: IP40)	Connecting capacity flexible	1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ²
General dataOperating positionoptionalMechanical endurancemin. 5000 switching cyclesElectrical endurancemin. 2000 switching cyclesAmbient temperature-25 °C 40 °CClimate resistanceaccording to IEC 60068-2-30Shock resistance20 g / 20 ms DurationFatigue limit> 5 g (f ≤ 80 Hz, duration > 30 min.)Housing typedistribution board housingInstallation typeMounting rail (35 mm)Housing materialIP20 (installed: IP40)	Cross section stranded	1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ²
Operating positionoptionalMechanical endurancemin. 5000 switching cyclesElectrical endurancemin. 2000 switching cyclesAmbient temperature-25 °C 40 °CClimate resistanceaccording to IEC 60068-2-30Shock resistance20 g / 20 ms DurationFatigue limit> 5 g (f ≤ 80 Hz, duration > 30 min.)Housing typedistribution board housingInstallation typeMounting rail (35 mm)Housing materialIP20 (installed: IP40)	Tightening torque	2 Nm 2.4 Nm
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Housing typedistribution board housingInstallation typeMounting rail (35 mm)Housing materialthermoplasticProtection classIP20 (installed: IP40)		
Installation type Mounting rail (35 mm) Housing material thermoplastic Protection class IP20 (installed: IP40)		
Housing material thermoplastic Protection class IP20 (installed: IP40)		
Protection class IP20 (installed: IP40)		
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ТТ	wiuti	44 mm

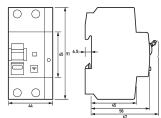
Doepke

The experts in residual current protection technology

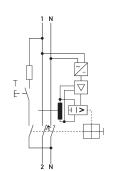
Technical Data	DRCBO 4 C10/0,10/1N-B+
Height	91 mm
Depth	73.5 mm
Installation depth	67 mm
Module widths	2.5
Weight	0.2 kg
Design requirements/Standards	VDE 0664-20, VDE 0664-40, VDE 0664-401, EN 61009-1, EN 62423, ÖVE/ÖNORM E 8601
Power limitation category	3
Degree of pollution	2
Certifications	VDE

Dimensions

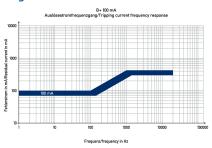
Dimensional drawing Group view



Wiring example



Diagrams



Characteristic B+ 100 mA

Wiring diagram