Doepke



DATA SHEET

residual current operated circuit-breakers with integral overcurrent protection DRCBO 4 Co6/0,30/3N-B+ AC/DC sensitive type B+, fire protection according to VDE 0100-420 Article number 09948331



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 4-pole

Technical Data

Technical Data	DRCBO 4 Co6/0,30/3N-B+
Series	DRCBO 4
Number of poles	3+N
Residual current type	B+
Rated current (AC)	6 A
Rated residual current IAn	0.3 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 Minimum rated operating voltage (Type AVAC operation) Minimum rated operating voltage (Type B Operation) Non-trip time 10 norms Tripping farequency 11 June 10 norms Tripping farequency 12 June 30 ms; 5 June 34 oms Tripping farequency 13 June 30 ms; 5 June 34 oms Tripping farequency 13 June 30 ms; 5 June 34 oms Tripping farequency 14 June 30 ms; 5 June 34 oms Tripping farequency 14 June 30 ms; 5 June 34 oms 15 June 34 June 30 ms; 5 June 34 oms 16 June 30 June 30 ms; 5 June 34 oms 17 June 30 Ju	Technical Data	DRCBO 4 Co6/0,30/3N-B+
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Tripping characteristic C Supply side up Operating voltage (AC) max. 4.40 V Internal consumption max. 1.3 W Specification load disconnect contact Rated voltage (AC) 230 V, 400 V Rated consumption 6 A Rated voltage (AC) 6 A Rated short circuit current 6 kA Surge current strength 3 kA max. Total rated switching capacity 6 kA capacity 50 Hz Current heat loss per current path 1.2 W Back-up fuse type gG Overvoltage class III Neutral conductor position right Connection C1 Maximum number of conductors per terminal top, bottom (load circuit) Neutral conductor position 1.2 Wire: 1 mm² 25 mm² 2wire: 1 mm² 10 mm² Cross section solid 1wire: 1 mm² 25 mm² 2wire: 1 mm² 10 mm² Cross section solid 1wire: 1 mm² 25 mm² 2wire: 1 mm² 10 mm² Cross section solid 1wire: 1 mm² 25 mm² 2wire: 1 mm² 10 mm² Cross section solid 1wire: 1 mm² 25 mm² 2wire: 1 mm² 10 mm² Cross section solid 1wire:	Tripping frequency	0 Hz 20 kHz
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Protection class IP20 (installed: IP40)		
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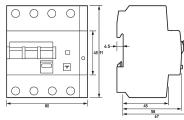
Doepke

The experts in residual current protection technology

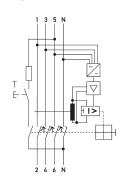
Technical Data	DRCBO 4 Co6/0,30/3N-B+
Height	91 mm
Depth	73.5 mm
Installation depth	67 mm
Module widths	4.5
Weight	0.323 kg
Design requirements/Standards	VDE 0664-20, VDE 0664-40, VDE 0664-401, EN 61009-1, EN 62423, ÖVE/ÖNORM E 8601
Power limitation category	3
Degree of pollution	2
Certifications	VDE

Dimensions

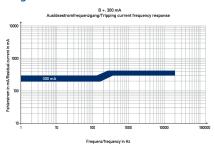
Dimensional drawing Group view



Wiring example



Diagrams



Characteristic B+ 300 mA

Wiring diagram