Doepke



DATA SHEET

residual current operated circuit-breakers with integral overcurrent protection DRCBO 4 C32/0,10/1N-B+ AC/DC sensitive type B+, fire protection according to VDE 0100-420 Article number 09949367



6000 🔀 💷 WWW KHZ 🕸 🕾 KV G

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 C32/0,10/1N-B+
Series	DRCBO 4
Number of poles	1+N
Residual current type	B+
Rated current (AC)	32 A
Rated residual current IAn	0.1 A
Short-time delayed	true
Selective	false

Doepke

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) Minimum rated operating voltage (Type B operation) Non-trip time 1 or ms Tipping frequency 0 or Hz 20 kHz Maximum disconnection times 1 clan: 30 ms Tipping frequency 0 or Hz 20 kHz 0 or ms Tipping frequency 0 or Hz 20 kHz 0 or ms 1 or ms Tipping frequency 0 operating voltage (AC) 0 max. 1:3 W 1 or ms 1 or ms	Technical Data	DRCBO 4 C32/0,10/1N-B+
test circuit Minimum rated operating voltage (Type A/AC operation) Minimum rated operating voltage (Type A/AC operation) Non-trip time a oms Tripping frequency 0 H L 20 kHz Mainum rated operating voltage (Type B peration) Non-trip time 1 (An :: 5 go on may, 5 · (An :: 5 40 ms) Tripping frequency 0 perating voltage (AC) max. 3; W Operating voltage (AC) max. 3; W Specification load disconnect contact Rated voltage (AC) specification load disconnect contact Rated short-circuit current fight and voltage react ourset (AC) specification voltage Rated insolution voltage Rated insolution voltage react ourset (AC) spo		
voltage (Type AAC operation) Minimum rate do perating you VAC VAC Valage (Type B operation) Non-trip time i on ms inpipin frequency i Atta Maximum disconnection times i LAn: 5 goo ms; 5: LAn: 5 40 ms if piping characteristic C C Operating voltage (AC) max: 53V internal consumption Dead dircuit Specification S		254 V
Minimum rated operation) go V AC voltage (Type B operation) 0 Hz		o V AC
Non-trip time 10 ms Tripping frequency 0 Hz	Minimum rated operating	50 V AC
Maximum disconnection times 1 · I.dn: ≤ 300 mS; 5 · Idn: ≤ 40 ms Tripping characteristic C Operating voltage (AC) max. 253 V Internal consumption max. 1.3W Operating voltage (AC) max. 1.3W Specification load disconnect contact Rated voltage (AC) 230 V Rated voltage (AC) 32 A Rated sourcit circuit current 6 kA Surge current strength 3 kA max. Total rated switching 6 kA capacity 6 kA Rated insulation voltage 4 kV Rated fineulency 50 Hz Current heat loss per current path 5.1 W path 20 Overvoltage class III 10 mode of circuit) Neutral conductor position right Connecting capacity 2 (conductors of same type and cross-section) number of conductors per terminal 1 - wire: 1 mm ²	Non-trip time	10 MS
Maximum disconnection times 1.1br. ± 300 mS; 5.1br. ± 40 ms Tripping characteristic C Operating voltage (AC) max. 253 V Operating voltage (AC) max. 253 V Internal consumption max. 1.3W Specification load disconnect contact Rated voltage (AC) 230 V Rated source contact 32 A Rated source circuit current 6 kA Surge current strength 3 kA max. Total rated switching capacity 6 kA capacity 20 Hz Current heat loss per current path 5.1W Rated fineupoxy 50 Hz Current heat loss per current path 5.1W path 20 G Devervoltage class III Neutral conductor position right Connecting capacity 2 (conductors of same type and cross-section) number of conductors per terminal 1-wire: 1 mm ²	Tripping frequency	0 Hz 20 kHz
Tripping characteristic C Supply side up Operating voltage (AC) max. 253 V Internal consumption max. 253 V Internal consumption max. 253 V Specification load disconnect contact Rated voltage (AC) 230 V Rated current (AC) 32 A Rated sour-circuit current 6 kA Surge current strength 3 kA max. Total rated switching capacity 6 kA Capacity 50 Hz Current heat loss per current p 50 Hz Current heat loss per current p 50 Hz Current heat loss per current path 5.1 W Back-up foxe type 9G Overvoltage class III Connection C1 Maximum number of conductors post returninal top, bottom (load circuit) number of conductors per terminal top, action standed 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 30 mm ² Cross section solid 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 30 mm ² Connecting capatity flexible 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 30 mm ² Cross section solid 1-wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 30 mm ²		1 · IΔn: ≤ 300 ms; 5 · IΔn: ≤ 40 ms
Supply side up Operating voltage (AC) max. 323 V Internal consumption max. 33 W Specification load disconnect contact Rated voltage (AC) 230 V Rated voltage (AC) 32 A Rated sourching 6 kA Surge current (AC) 32 A Rated short-circuit current 6 kA Surge current strength 3 kA max. Total rated switching 6 kA capacity 6 kA Rated insulation voltage 440 V Rated insulation voltage 4 kV Rated frequency 50 Hz Current heat loss per current path 5.1 W Back-up fuse type gG Overvoltage class III Under theat loss per current path 2 (conductors of same type and cross-section) Neutral conductor position right Connecting capacity flexible 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Cons section solid 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section stranded 1-wire: 1 mm ²	Tripping characteristic	
Operating voltage (AC) max. 253 V Internal consumption max. 1.3 W Specification load dircuit Specification load disconnect contact Rated voltage (AC) 230 V Rated short-circuit current 6 kA Surge current strength 3 kA max. Total rated switching capacity 6 kA Rated insulation voltage 440 V Rated insulation voltage 4 kV Rated fine-circuit current 5.1 W Path 5.1 W Back-up fuse type gG Overvoltage class III Screw-type terminal top, bottom (load circuit) Neutral conductor position right Connection CA Maximum 2 (conductors of same type and cross-section) number of conductors per terminal 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section stranded 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ²		
Internal consumption max. 1.3 W load circuit Specification load disconnect contact 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 6 kA capacity 6 kA Rated inpulse withstand voltage 440 V Rated inpulse withstand voltage 440 V Rated inpulse withstand voltage 4 kV Rated inpulse withstand voltage 7 kV Rated inpulse 7 kV Rated 1 kV Ra		
Ioad circuit Specification Ioad disconnect contact Rated voltage (AC) 23 0 V Rated current (AC) 32 A Rated short-circuit current 6 kA Surge current strength 3 kA max. Total rated switching 6 kA capacity 6 kA Rated insulation voltage 4 kV Rated insulation voltage 4 kV Rated frequency 5 n W Current heat loss per current path 5 n W Back-up fixe type gG Overvoltage class III Neutral conductor position right Connection C1 Maximum number of conductors per terminal 2 (conductors of same type and cross-section) Number of conductors per terminal 2 (mm² - 2 sim², 2 - wire: 1 mm² - 10 mm² Cross section solid 1 - wire: 1 mm² - 2 g mm², 2 - wire: 1 mm² - 10 mm² Cross section stranded 1 - wire: 1 mm² - 2 g mm², 2 - wire: 1 mm² - 10 mm² Cross section stranded 1 - wire: 1 mm² - 2 g mm², 2 - wire: 1 mm² - 10 mm² Cross section stranded 1 - wire: 1 mm² - 2 g mm², 2 - wire: 1 mm² - 10 mm² Connecting copacity flexible <td< td=""><td></td><td></td></td<>		
Specification Ioad disconnect contact 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 6 kA Rated insultion voltage 440 V Rated insultion voltage 4 kV Rated insultion voltage 4 kV Rated insultion voltage 6 kA Current heat loss per current path 5.1 W Back-up fuse type 9G Overvoltage class III Mutral conductor position right Connection C3 Maximum number of conductors per terminal 2 (conductors of same type and cross-section) Cross section solid 1-wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 2-wire: 1 mm ² 26 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecti		
Rated voltage (AC) 230 V Rated soltage (AC) 32 A Rated solt-circuit current 6 kA Surge current strength 3 kA max. Total rated switching capacity 6 kA Rated insulation voltage 440 V Rated insulation voltage 4 kV Rated insulation voltage 4 kV Rated insulation voltage 9 kA Current heat loss per current path 5.1 W Back-up fuse type 9G Overvoltage class III Ventral conductor position right Connection C1 Maximum number of conductors per terminal 2 (conductors of same type and cross-section) Cross section solid 1-wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting costion 0 potional Mechanical endurance nin 2.4 Nm Coreste	Specification	
Rated current (AC) 32 A Rated short-circuit current 6 kA Surge current strength 3 kA max. Total rated switching capacity 6 kA Rated insulation voltage 4 kV Rated insulation voltage 4 kV Rated insulation voltage 4 kV Rated frequency 50 Hz Current heat loss per current path 5.1 W Back-up fuse type 9G Overvoltage class III Screw-type terminal top, bottom (load circuit) number of conductors per terminal Neutral conductor position right Connecting capacity flexible 1-wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section solid 1-wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section stranded 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section stranded 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section stranded 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section stranded 1-wire: 1 mm ² 20 mm ² ; 2-wire: 1 mm ²	•	
Rated short-circuit current 6 kA Surge current strength 3 kA max. Total rated switching capacity 6 kA Rated insulation voltage 4 kV Rated insulation voltage 9 kL Current heat loss per current path 5.1 W Back-up fuse type 9G Overvoltage class III Screw-type terminal top, bottom (load circuit) number of conductors per terminal 2 (conductors of same type and cross-section) Consection c1 Maximum number of conductors per terminal 1 -wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section solid 1 -wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section solid 1 -wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section solid 1 -wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section solid 1 -wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section solid 1 -wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section solid 1 -wire: 1 mm ²		
Surge current strength 3 kA max. Total rated switching capacity 6 kA Rated insulation voltage 440 V Rated insulation voltage 4 kV Rated insulation voltage 4 kV Rated insulation voltage 6 kA Rated insulation voltage 4 kV Rated frequency 50 Hz Current heat loss per current path 5.1 W Back-up fuse type 9G Overvoltage class III Neutral conductor position right Connection C1 Maximum number of conductors per terminal 2 (conductors of same type and cross-section) Connection C1 Maximum number of conductors per terminal 2 (conductors of same type and cross-section) Connecting capacity flexible 1-wire: 1 mm ² 3g mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 2g mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 2g mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 2g mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 2g mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 2g mm ² ; 2-wire: 1 mm ²		
max. Total rated switching capacity 6 kA Rated insulation voltage 440 V Rated insulation voltage 4 kV Rated inguise withstand voltage 6 kA Current heat loss per current path 5.1 W Back-up fuse type gG Overvoltage class III Neutral conductor position right Connection C1 Maximum number of conductors per terminal 2 (conductors of same type and cross-section) Cross section solid 1-wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 26 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 26 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecti		
capacityRated insulation voltageRated insulation voltageRated insulation voltageRated frequencySo HzCurrent heat loss per current pathBack-up fuse typeGovervoltage classIIINeutral conductor positionrightConsection Ca Maximum number of conductors per terminalCross section solid1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Cross section solid1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Consecting capacity flexible1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Cross section solid1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Consecting capacity flexible1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Consecting capacity flexible1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Consecting capacity flexible1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Consecting capacity flexible1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Consecting capacity flexible1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Consecting capacity flexible1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Consecting capacity flexible1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Consecting capacity flexible1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Consecting capacity flexibleConsecting capacity flexibleConsecting capacity flexibleConsecting capacity flexibleConsecting capacity flexi		
Rated impulse withstand voltage 4 kV Rated frequency 50 Hz Current heat loss per current path 5.1 W Back-up fuse type gG Overvoltage class III Neutral conductor position right Connection C1 Maximum number of conductors per terminal 2 (conductors of same type and cross-section) number of conductors per terminal Cross section solid 1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm² Connecting capacity flexible 1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm² Cross section solid 1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm² Connecting capacity flexible 1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm² Connecting capacity flexible 1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm² Connecting capacity flexible 1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm² Connecting capacity flexible 1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm² Connecting capacity flexible 1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm² Connecting capacity flexible 1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm² Electrical endurance 1-wire: 1 mm²	capacity	
Rated frequency 50 Hz Current heat loss per current path 5.1 W Back-up fuse type gG Overvoltage class III Mathematical conductor position right Connection C1 Maximum path of conductors per terminal Provide the function of the fun	-	
Current heat loss per current path 5.1 W Back-up fuse type gG Overvoltage class III Neutral conductor position right Connection C1 Maximum number of conductors per terminal 2 (conductors of same type and cross-section) number of conductors per terminal 1-wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Consecting capacity flexible 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Consecting capacity flexible 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Consecting capacity flexible 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Consecting capacity flexible 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Tightening torque 2 Nm 2 4 Nm General data Operating position Operating position optional Mechanical endurance min. 2000 switching cycles Electrical endurance according to IEC 60068-2-30 Shock resistance 20 g / 20 ms Duration Fatigue limit > 5 g (f ≤ 80 Hz, duration > 30 min.) Housing type distribution board housing Installation type </td <td></td> <td>4 kV</td>		4 kV
pathBack-up fuse typegGOvervoltage classIIIIIIscrew-type terminal top, bottom (load circuit)Neutral conductor positionrightConnection C1 Maximum number of conductors per terminal2 (conductors of same type and cross-section)Cross section solid1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm²Consecting 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 mm²Cross section stranded1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Consecting 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 mm²Cross section stranded1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Consecting capacity flexible1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Consecting capacity flexible1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Consecting capacity flexible1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Consecting capacity flexible1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Consecting capacity flexible1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Consecting capacity flexible1-wire: 1 mm² 26 mm²Consecting capacity flexible1-wire: 1 mm² 25 mm²; 2-wire: 1 mm²Consecting capacity flexible0Mechanical endurancemin. 5000 switching cyclesElectrical endurancemin. 2000 switching cyclesClimate resistance20 g/ 20 ms DurationShock	Rated frequency	50 Hz
Overvoltage class III screw-type terminal top, bottom (load circuit) Neutral conductor position right Connection C1 Maximum 2 (conductors of same type and cross-section) number of conductors per terminal 2 (conductors of same type and cross-section) Cross section solid 1-wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section stranded 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section stranded 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section stranded 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section stranded 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section stranded 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section stranded 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section stranded 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section stranded 1-wire: 1 mm ² 26 mm ² ; 2-wire: 1 mm ² 10 mm ² Conductor position optional Mechanical endurance min. 5000 switching cycles Electrical endurance min. 2000 switching cycles		5.1 W
screw-type terminal top, bottom (load circuit) Neutral conductor position right Connection C1 Maximum 2 (conductors of same type and cross-section) number of conductors per terminal 2 (conductors of same type and cross-section) Cross section solid 1-wire: 1 mm ² 35 mm ² ; 2-wire: 1 mm ² 10 mm ² Connecting capacity flexible 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section stranded 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section stranded 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Cross section stranded 1-wire: 1 mm ² 25 mm ² ; 2-wire: 1 mm ² 10 mm ² Operating position General data Operating position optional Mechanical endurance min. 5000 switching cycles Electrical endurance min. 2000 switching cycles Ambient temperature -25 °C 40 °C Climate resistance 20 g / 20 ms Duration Fatigue limit > 5 g (f ≤ 80 Hz, duration > 30 min.) Housing type distribution board housing Installation type Mounting rail (35 mm) Housing material thermoplastic Protection class I/P20 (installed: IP40)	Back-up fuse type	gG
Neutral conductor positionrightConnection C1 Maximum number of conductors per terminal2 (conductors of same type and cross-section)Cross section solid1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm²Connecting capacity flexible1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Connecting 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 NmGeneral dataOperating positionOperating positionoptionalMechanical endurancemin. 5000 switching cyclesElectrical endurancemin. 2000 switching cyclesClimate resistance20 g / 20 ms DurationFatigue limit> 5 g (f ≤ 80 Hz, duration > 30 min.)Housing typedistribution board housingInstallation typeMounting rail (35 mm)Housing material1P20 (installed: IP40)	Overvoltage class	III
Connection C1 Maximum number of conductors per terminal2 (conductors of same type and cross-section)Cross section solid1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm²Connecting 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 NmGeneral dataOperating positionOperating positionoptionalMechanical endurancemin. 5000 switching cyclesElectrical endurancemin. 2000 switching cyclesClimate resistance2 o 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)		screw-type terminal top, bottom (load circuit)
number of conductors per terminalCross section solid1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm²Connecting 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 mm²Cross section stranded1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Cross section stranded1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Cross section stranded2 Nm 2.4 NmGeneral dataOperating positionOperating positionoptionalMechanical 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 typedistribution board housingInstallation typeMounting rail (35 mm)Housing materialThermoplasticProtection classIP20 (installed: IP40)	Neutral conductor position	right
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 NmGeneral dataOperating positionoptionalMechanical endurancemin. 5000 switching cyclesElectrical endurancemin. 2000 switching cyclesClimate resistance20 mg. 20 mg	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 dataGeneral dataOperating positionoptionalMechanical 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 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 $-25 ^{\circ}C \dots 40 ^{\circ}C$ Climate 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
Mechanical 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 materialthermoplasticProtection classIP20 (installed: IP40)		General data
Mechanical 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 materialthermoplasticProtection classIP20 (installed: IP40)	Operating position	optional
Electrical 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)		
Ambient 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)		
Climate 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 materialthermoplasticProtection classIP20 (installed: IP40)		
Shock resistance20 g / 20 ms DurationFatigue limit> 5 g (f ≤ 80 Hz, duration > 30 min.)Housing typedistribution board housingInstallation typeMounting rail (35 mm)Housing materialthermoplasticProtection classIP20 (installed: IP40)	-	· · · · · · · · · · · · · · · ·
Fatigue limit > 5 g (f ≤ 80 Hz, duration > 30 min.) Housing type distribution board housing Installation type Mounting rail (35 mm) Housing material thermoplastic Protection class IP20 (installed: IP40)		
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)		-
		•
44 mm		
	width	44 mm

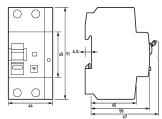
Doepke

The experts in residual current protection technology

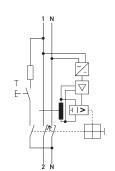
Technical Data	DRCBO 4 C32/0,10/1N-B+
Height	91 mm
Depth	73.5 mm
Installation depth	67 mm
Module widths	2.5
Weight	0.282 kg
Design requirements/Standards	VDE 0664-20, VDE 0664-40, VDE 0664-401, EN 61009-1, EN 62423, ÖVE/ÖNORM E 8601
Power limitation category	3
Degree of pollution	2
Certifications	VDE

Dimensions

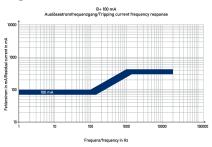
Dimensional drawing Group view



Wiring example



Diagrams



Characteristic B+ 100 mA

Wiring diagram