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# **DATA SHEET**

residual current operated circuit-breakers with integral overcurrent protection DRCBO 4 B32/0,30/3N-B+ AC/DC sensitive type B+, fire protection according to VDE 0100-420 Article number 09948317

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 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 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 B32/0,30/3N-B+
Series	DRCBO 4
Number of poles	3+N
Residual current type	В+
Rated current (AC)	32 A
Rated residual current IAn	0.3 A
Short-time delayed	true
Selective	false

## Doepke

The experts in residual current protection technology

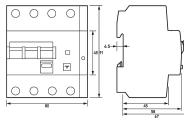
min. Operating voltage range of test circuit max. Operating voltage range of test circuit Minimum rated operating voltage (Type A/AC operation) Non-trip time 1 piping frequency 0 VAC voltage (Type B operation) Non-trip time 1 piping frequency 0 VAC voltage (Type B operation) Supply side 0 up 0 perating voltage (AC) 0 perating voltage (AC) 0 max. 440 V Internal consumption 1 memal conservet conservet conservet conservet conservet conservet conserve	Technical Data	DRCBO 4 B32/0,30/3N-B+
test cricit       o V AC         Minimum rated operating voltage (Type A/AC operation)       o V AC         Minimum rated operating voltage (Type B operation)       so V AC         Non-trip time       10 mms         Tripping frequency       0 HZ 20 kHZ         Minimum rated operating       so mms         Tripping frequency       0 HZ 20 kHZ         Maintum disconnection times       1 - 10 ms         Operating voltage (AC)       max. 440 V         Internal consumption       Index 440 V         Specification       Ioad disconnect contact         Rated voltage (AC)       23 a V, 400 V         Rated voltage (AC)       32 A         Rated voltage (Ac)       34 A         Surge current strength       3 kA         max. Total rated switching       6 kA         capacity       6 kA         Rated insultation voltage       4 k40 V         Rated insultation voltage       4 kW         Rated insultation voltage       10 mmt         Backup fuse t		
voltage (Type A/AC operation) Minimum rated operating you voltage (Type B operation) Non-trip time inspin frequency interval inte		254 V
voltage (Type B operation)           Non-trip time           10 ms           Tripping requency           0 Hz zo kHz           Maximum disconnection times           1 Lin: s goo ms; 5 - Lin: s 4 orms           Tripping characteristic           B           Supply side           up           Operating voltage (AC)           max. 440 V           Internal consumption           max. 413 W           Specification           Rated voltage (AC)           232 A           Rated solutor (AC)           323 A           Rated solutor (AC)           324 A           Rated solutor voltage           6 kA           capacity           State disolution voltage           Rated insulation voltage           Rated insulation voltage           Rated insulation voltage           Rated insulation voltage           Current heat loss per current           5.1 W           Backurg fixe type           0 GG           Overvoltage class           III           Connecting capacity flexible           1 - wire: 1 mm <sup>2</sup> 2 mm <sup>2</sup>		o V AC
Tripping frequency       0 HZ 20 kHz         Maximum disconnection times       1 · Lân: s goo mis, 5 · Lân: s 40 mis         Tripping characteristic       B         Supply side       up         Operating voltage (AC)       max. 40 V         Internal consumption       max. 40 V         Rated voltage (AC)       230 V, 400 V         Rated voltage (AC)       230 V, 400 V         Rated voltage (AC)       32 A         Rated voltage (AC)       32 A         Rated soltage (AC)       32 A V, 400 V         Rated soltage (AC)       32 A V, 400 V         Rated soltage (AC)       32 A V, 400 V         Rated soltage (AC)       34 A         max, Total rated switching       6 kA         capacity       6 kA         maxing and the soltage (AC)       5.4 W         Rated insulsion voltage       4 kV         Rated insulsion voltage       4 kV         Rated insuls soltage current       5.1 W         path       5.1 W         path       5.1 W         path       10 Correction Calmaximum         path       2 (conductors of same type and cross-section)         overvoltage class       III         Connectin Cal Maximum       2 (conductors		50 V AC
Maximum disconnection times       1 · Lân: ≤ 300 ms; 5 · Lân: ≤ 40 ms         Tripping characteristic       B         Operating voltage (AC)       max. 440 V         Operating voltage (AC)       max. 1.3 W         Operating voltage (AC)       max. 1.3 W         Specification       load dircoruit         Specification       load dircoruit         Specification       load disconnect contact         Rated voltage (AC)       320 V, aoo V         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 finequency       90 Hz         Current heat loss per current path       5.1 W         path       gG         Overvoltage class       III         Neutral conductor position       right         Connection C1 Maximum       2 (conductors of same type and cross-section)         number of conductors per terminal top, bottom (load circuit)         Neutral conductor position       right         Connecting capacity flexible       1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²         Consection stranded       1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 1	Non-trip time	10 MS
Tripping characteristic       B         Supply side       up         Operating voltage (AC)       max. 440 V         Internal consumption       max. 13 W         Specification       load disconnect contact         Rated voltage (AC)       32 A         Rated voltage trength       3 kA         max. Total rated switching capacity       6 kA         capacity       5 hV         Rated insulation voltage       4 kV         Rated insulation voltage       4 kV         Rated frequency       50 HZ         Current heat loss per current       5.1 W         Back-up fixe type       9G         Overvoltage class       III         Neutral conductor position       right         Connection C1 Maximum number of conductors per terminal top, bottom (load circuit)         remminal       2 (conductors of same type and cross-section) number of conductors per terminal top, consistent samed         Cross section solid       2 -wire: 1 mm <sup>2</sup>	Tripping frequency	0 Hz 20 kHz
Tripping characteristic       B         Supply side       up         Operating voltage (AC)       max. 4,40 V         Internal consumption       max. 4,3 W         Specification       load disconnect contact         Rated voltage (AC)       230 V, 400 V         Rated voltage (AC)       32 A         Rated sourcent (AC)       32 A         Specification       6 kA         Surge current strength       3 kA         max. Total rated switching capacity       6 kA         capacity       50 Hz         Current head loss per current       5.1 W         Rated insulation voltage       4 kV         Rated frequency       50 Hz         Current head loss per current       5.1 W         path       5.1 W         pack-up fixe type       9G         Overvoltage class       III         Connection C1 Maximum       2 (conductors of same type and cross-section)         number of conductors per terminal       1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm²         Consection stranded       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         Consecting capatify flexible       1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10	Maximum disconnection times	1 · I∆n: ≤ 300 ms; 5 · I∆n: ≤ 40 ms
Supply side         up           Operating voltage (AC)         max. 440 V           Internal consumption         max. 13 W           Specification         load disconnect contact           Rated voltage (AC)         230 V, 400 V           Rated voltage (AC)         32 A           Rated voltage (AC)         32 A           Rated stort-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 H2           Current heat loss per current path         5.1 W           Back-up fuse type         gG           Overvoltage class         III           Methan conductors per unmate of conductors of same type and cross-section)           Neutral conductors per unmate of conduc	Tripping characteristic	
Operating voltage (AC)         max. 440 V           Internal consumption         max. 1.3 W           Specification         load disconnect contact           Rated voltage (AC)         230 V, 400 V           Rated short-circuit current         6 kA           Surge current strength         3 kA           max. Total rated switching capacity         6 kA           Capacity         6 kA           Rated insulation voltage         4 kV           Rated insulation voltage         4 kV           Rated insulation voltage         4 kV           Rated finequency         5 hZ           Overvoltage class         III           Surge current spectrament path         2 (conductors position           Screw-type terminal top, bottom (load circuit)         Neutral conductor position           Number of conductors per terminal         10 kWrie: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²           Connection Camadity flexible         1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²           Connection Camadity 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		Up
Internal consumption max. 1.3 W load circuit Specification load disconnect contact Rated voltage (AC) 230 V, 400 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 9 kV Rated inpulse 9 kV Rated 1 wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2 wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Refrain gapacity flexible 1 -wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2 wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Refrain gapacity flexible 9 kV Refrain 9 kV		
Ioad circuit           Specification         Ioad disconnect contact           Rated voltage (AC)         230 V, 400 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         440 V           Rated insulation voltage         4 kV           Rated frequency         50 HZ           Current heat loss per current         5.1 W           path         51.0 W           Back-up five type         gG           Overvoltage class         III           Mutral conductor position         right           Connection C3 Maximum         2 (conductors of same type and cross-section)           number of conductors per terminal         1-wire: 1 mm <sup>2</sup>		
Specification         Ioad disconnect contact           Rated voltage (AC)         230 V, 400 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         6 KA           Current heat loss per current path         5 a Hz           Current heat loss per current path         5 a W           Rated firequency         50 Hz           Overvoltage class         III           Screw-type terminal top, bottom (load circuit)           Neutral conductors per terminal         19 M           Connection C: Maximum         2 (conductors of same type and cross-section)           Number of conductors per terminal         1 - wire: 1 mm <sup>2</sup> 35 mm <sup>2</sup> ; 2 - wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Connection C: Maximum         2 (conductors of same type and cross-section)           Connection C: Maximum         2 (conductors of same type and cross-section)           Connection C: Maximum         2 (conductors of same type and cross-section)           Connection C: Maximum         2 (conductors of same type and cross-section)           Connection C: Maximum         2 (conductors of same type and cross-section)           Conneting capacity flexible <td></td> <td></td>		
Rated voltage (AC)       230 V, 400 V         Rated solt-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 insulation voltage       4 kV         Rated insulation voltage       6 kA         Current heat loss per current path       5.1 W         Back-up fuse type       gG         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 wrire: 1 mm² 35 mm²; 2-wrire: 1 mm² 10 mm²         Consecting capacity flexible       1-wrire: 1 mm² 25 mm²; 2-wrire: 1 mm² 10 mm²         Tightening torque       2 Nm 2.4 Nm         General data       Operating position         Mechanical endurance       min 20 m²; 2-wrire: 1 mm² 10 mm²         Electrical endurance       min	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       440 V         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       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 <sup>2</sup> 35 mm <sup>3</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section solid       1-wire: 1 mm <sup>2</sup> 35 mm <sup>3</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section stranded       1-wire: 1 mm <sup>2</sup> 25 mm <sup>3</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section stranded       1-wire: 1 mm <sup>2</sup> 25 mm <sup>3</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section stranded       1-wire: 1 mm <sup>2</sup> 25 mm <sup>3</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section stranded       1-wire: 1 mm <sup>2</sup> 25 mm <sup>3</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section stranded       1-wire: 1 mm <sup>2</sup> 20 mm <sup>2</sup> Corse section stranded       1-wir		
Rated short-circuit current       6 kA         Surge current strength       3 kA         max. Total rated switching capacity       6 kA         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         Neutral conductor position       right         Connection C1 Maximum number of conductors per terminal       2 (conductors of same type and cross-section)         Consection solid       1-wire: 1 mm <sup>2</sup> 35 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Connecting capacity flexible       1-wire: 1 mm <sup>2</sup> 35 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Connecting capacity flexible       1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Connecting capacity flexible       1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Connecting capacity flexible       1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Connecting capacity flexible       2 Nm 2.4 Nm         General data       Operating position         Operating position       optional         M		
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         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           Succurpt terminal top, bottom (load circuit)           Neutral conductor position         right           Connection C1 Maximum number of conductors per terminal         2 (conductors of same type and cross-section)           Consection solid         1-wire: 1 mm <sup>2</sup> 3g mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Connecting capacity flexible         1-wire: 1 mm <sup>2</sup> 2g mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Connecting capacity flexible         1-wire: 1 mm <sup>2</sup> 2g mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Connecting capacity flexible         1-wire: 1 mm <sup>2</sup> 2g mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Connecting capacity flexible         1-wire: 1 mm <sup>2</sup> 2g mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Connecting capacity flexible         1-wire: 1 mm <sup>2</sup> 2g mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Connecting capacity flexible         1-wire:		
max. Total rated switching capacity       6 kA         Rated insulation voltage       440 V         Rated insulation voltage       4 kV         Rated inguise withstand voltage       90 Hz         Current heat loss per current path       5.1 W         Back-up fuse type       gG         Overvoltage class       III         Neutral conductor position       right         Connection Ca Maximum number of conductors per terminal       2 (conductors of same type and cross-section)         Cross section solid       1-wire: 1 mm <sup>2</sup> 35 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section solid       1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section solid       1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Connecting capacity flexible       1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Constranded       1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Tightening torque       2 Nm 2.4, Nm         General data       Operating position         Operating position       optional         Mechanical endurance       min 2000 switching cycles         Electrical endurance       according to EC Goo68-2-30         Shock resistance       20 g / 20 ms Duration         Fatigue limit       >5 g (f ≤ 80 Hz, duration > 3		
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 35 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 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 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 mm²Consecting capacity flexible0 - ConterConsecting capacity flexible0 - ConterConsecting capacity flexible0 - ConterConter1 - So g ('s 60 Hz, duration > 30 min.)1 - So g ('s 80 Hz, duration > 30 min.)1 - So g ('s 80 Hz, duration > 30 min.)1 - So g ('s 80 Hz, duration > 30 min.)1 - So g ('s 80 Hz, duration > 30 min.)		
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 35 mm²; 2-wire: 1 mm² 10 mm²         Connecting capacity flexible       1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²         Cross section stranded       1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²         Tightening torque       2 Nm 2.4 Nm         General data       Operating position         Operating position       optional         Mechanical endurance       min. 2000 switching cycles         Ambient temperature       -25 °C 40 °C         Climate resistance       20 g / 20 ms Duration         Fatigue limit       > 5 g (f s 8 hZ, duration > 30 min.)         Housing type       distribution board housing         Installation type       Mounting rail (35 mm)         Housing material       Thermoplastic	capacity	
Rated frequency       50 Hz         Current heat loss per current path       5.1 W         Back-up fuse type       gG         Overvoltage class       III         Million Conductor position         Return of the second of the seco	=	
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 top, bottom (load circuit)       Neutral conductors of same type and cross-section)         number of conductors per terminal       1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm²         Consection solid       1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²         Consection stranded       1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²         Tightening torque       2 Nm 2.4 Nm         General data       Operating position         Operating position       optional         Mechanical endurance       min. 5000 switching cycles         Electrical endurance       min. 200 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		4 kV
path         gG           Back-up fuse type         gG           Overvoltage class         III           Connection class         screw-type terminal top, bottom (load circuit)           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 <sup>2</sup> 35 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Connecting capacity flexible         1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section stranded         1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section stranded         1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section stranded         1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section stranded         1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section stranded         1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section stranded         1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Connecting capacity flexible         2 Nm 2.4 Nm           General data         Operating position           Operating position         optional           Mechanical endurance         min. 5000 switching cycles           Ambient temperature		50 Hz
Overvoltage class         III           screw-type terminal top, bottom (load circuit)           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 <sup>2</sup> 35 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Connecting capacity flexible         1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section stranded         1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section stranded         1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section stranded         1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section stranded         1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section stranded         1-wire: 1 mm <sup>2</sup> 26 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section stranded         1-wire: 1 mm <sup>2</sup> 26 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cross section stranded         1-wire: 1 mm <sup>2</sup> 26 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Connecting capacity flexible         0 mm <sup>2</sup> Cross section stranded         1-wire: 1 mm <sup>2</sup> 20 mm <sup>2</sup> Construction strande         min. 5000 switching cycles           Electrical endurance         min. 5000 switching cycles           Ambient temperature		5.1 W
screw-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 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. 500 switching cyclesElectrical endurancemin. 500 switching cyclesAmbient temperature-25 °C 40 °CClimate resistance2 og / 2 om S DurationFatigue limit> 5 g (f ≤ 80 Hz, duration > 30 min.)Housing typedistribution board housingInstallation typeMounting rail (35 mm)Housing materialthermoplasticProtection classIIP20 (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. 5000 switching cyclesClimate resistance2 of CClimate resistance2 of S of CShock resistance2 of J 2 or ms DurationFatigue limit> 5 g (f ≤ 80 Hz, duration > 30 min.)Housing typedistribution board housingInstallation typeMounting rail (35 mm)Housing materialthermoplasticProtection classIP20 (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 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 cyclesAmbient temperature-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)		screw-type terminal top, bottom (load circuit)
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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 NmGeneral 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)	number of conductors per	2 (conductors of same type and cross-section)
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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 resistance $20  g / 20  ms  Duration$ Fatigue 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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Protection class IP20 (installed: IP40)		
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VVIGUI 80 mm		· · · · · · · · · · · · · · · · · · ·
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## Doepke

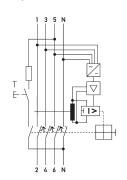
The experts in residual current protection technology

DRCBO 4 B32/0,30/3N-B+
91 mm
73.5 mm
67 mm
4.5
0.323 kg
VDE 0664-20, VDE 0664-40, VDE 0664-401, EN 61009-1, EN 62423, ÖVE/ÖNORM E 8601
3
2
VDE

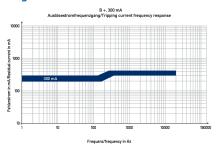
## Dimensions



Wiring example



Diagrams



Characteristic B+ 300 mA

Wiring diagram

Dimensional drawing Group view