### Doepke



# DATA SHEET

residual current operated circuit-breakers with integral overcurrent protection DRCBO 4 B25/0,30/3N-B+ AC/DC sensitive type B+, fire protection according to VDE 0100-420 Article number 09948316



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#### 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 430. 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 B25/0,30/3N-B+
Series	DRCBO 4
Number of poles	3+N
Residual current type	B+
Rated current (AC)	25 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 of VAC voltage (Type AVAC operation) Non-trip time 1 or ns Tipping frequency 0 + 4z 20 kHz Maximum disconnection times 1 · Idm s gio ms; 5 · Idm s 4 opms Tipping frequency 0 + 4z 20 kHz Maximum disconnection times 1 · Idm s gio ms; 5 · Idm s 4 opms Tipping characteristic B Supply side 0 portating voltage (AC) Internal consumption max. 440 V Internal consumption max. 440 V Rated stort-circuit current 6 kA Surge voltage (AC) Rated stort-circuit current 6 kA Surge voltage discription Rated stort-circuit current 6 kA Surge voltage discription Rated stort-circuit current 6 kA Surge voltage discription Rated insultion voltage 4 40 V Rated insultion voltage 4 40 V Rated insultion voltage 6 kA Surge voltage stort-tricuit current 6 kA Surge voltage stort-tricuit current 6 kA Surge voltage stort-tricuit current 9 bHz 6 cha capacity Rated insultion voltage 4 40 V Rated insultion voltage 6 kA Corrent back back context 8 context 9 bHz 6 corrent 9 context 9 conte	Technical Data	DRCBO 4 B25/0,30/3N-B+
test crout and the set of the set		
voltage (Type AAC operation)       Minimum rate doperating voltage (Type B operation)       Non-trip time       1 voltage (Type B operation)       Non-trip time       1 voltage (Type B operation)       Maximum disconnection times       1 voltage (AC)       B       Supply side       Operating voltage (AC)       Internal consumption       max. 440 V       Internal consumption       Rated voltage (AC)       Specification       Rated voltage (AC)       Specification       Rated voltage (AC)       Specification       Rated voltage (AC)       Surge current strength       max. Total rated switching       Gabort circuit current       Stack function voltage       Rated finaulise withstand voltage       Rated finaulise withstand voltage       Rated finaulise withstand voltage       Rated finaulise withstand voltage       Current heat loss per current tage       Rated finaulise withstand voltage       Current heat loss per current       Gabcu pf üse type       GG       Overvoltage class <td></td> <td>254 V</td>		254 V
voltage (Type B operation)       Non trip time       10 ms trip time       11 fipping frequency       0 Hz so kHz       Maximum disconnection times       1-1 fairs is goo ms; 5 - 1 fairs is 40 ms       Tripping characteristic       B       Operating voltage (AC)       Internal consumption       Internal consumption       Specification       Rated voltage (AC)       25 A       Rated voltage (AC)       25 A       Rated voltage (AC)       25 A       Rated soltage (AC)       25 A       Rated insulation voltage       44 AV       Rated insulation voltage       44 AV       Rated insulation voltage       Rated insulation voltage       44 AV       Rated insulation voltage       Ga       Overvoltage class       III       Connection Ca Maximum		o V AC
Tripping frequency   0 H2 20 kHz     Maximum disconnection times   1 · L0x: s 300 ms; 5 · L0x: s 40 ms     Tripping characteristic   B     Supply side   up     Operating voltage (AC)   max. 40 V     Internal consumption   max. 40 V     Internal consumption   max. 40 V     Specification   Ioad disconnect contact     Rated voltage (AC)   230 V. 400 V     Rated current (AC)   25 A     Rated short-circuit current   6 kA     Surge current strength   3 kA     max. Total rated switching   6 kA     capacity   6 kA     max. Total rated switching   6 kA     capacity   6 kA     Rated insulston voltage   4 kV     Rated insulston voltage   4 kV     Rated insulston voltage   4 kV     Rated insulston voltage   1 a king     Go covervoltage class   III     verret hast baper current   4 3 W     path   2 (co		50 V AC
Maximum disconnection times     1 - IAr: ± 300 mS; 5 - IAr: ± 40 mS       Tripping characteristic     B       Operating voltage (AC)     max. 440 V       Internal consumption     max. 13 W       Specification     Ioad dircuit       Specification     Ioad disconnect contact       Rated voltage (AC)     230 V, 400 V       Rated voltage (AC)     236 V, 400 V       Rated short-circuit current     6 kA       Surge current strength     3 kA       max. Total rates witching     6 kA       capacity     6 kA       Rated insolution voltage     4 kV       Rated insolution voltage     4 kV       Rated inguise withstand voltage     4 kV       Rated frequency     50 Hz       Current heat loss per current     4,3 W       path     2       Section fight     Conductors of same type and cross-section)       number of conductors per terminal top, bottom (load circuit)     1       Nutrie: 1mm <sup>2</sup>	Non-trip time	10 MS
Tripping characteristic   B     Supply side   up     Operating voltage (AC)   max. 44 o V     Internal consumption   max. 1.3 W     Specification   load disconnect contact     Rated voltage (AC)   23 o V, 40 o V     Rated voltage (AC)   23 o V, 40 o V     Rated consumption   54 A     Rated short circuit current   6 kA     Surge current strength   3 kA     max. Total rated switching capacity   6 kA     capacity   6 kA     Current heat loss per current path   4.3 W     Rated insulation voltage   4 kV     Rated frequency   50 Hz     Current heat loss per current path   3 kA     Back-up fuse type   9G     Overvoltage class   111     Neutral conductor position   right     Connection C1 Maximum number of conductors per terminal top, bottom (load circuit)     Nutrie: 1mm <sup>2</sup>	Tripping frequency	o Hz 20 kHz
Tripping characteristic   B     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 durrent (AC)   25 A     Rated sourc-circuit current   6 kA     Surge current strength   3 kA     max. Total rated switching capacity   6 kA     capacity   6 kA     Rated insulation voltage   4,40 V     Rated frequency   50 Hz     Current heat loss per current path   4 3 W     path   9     Deck-up fixe type   9G     Overvoltage class   III     Connection C1 Maximum number of conductors per turminal   2 (conductors of same type and cross-section) number of conductors per turminal top, bottom (load circuit)     Cross section solid   1-wire: 1 mm <sup>2</sup>	Maximum disconnection times	1 · IΔn: ≤ 300 ms; 5 · IΔn: ≤ 40 ms
Supply side     up       Operating voltage (AC)     max. 4,40 V       Internal consumption     load circuit       Specification     load disconnect contact       Rated voltage (AC)     230 V,400 V       Rated voltage (AC)     25 A       Rated source (AC)     25 A       Rated insolution voltage     6 kA       capacity     6 kA       Rated insolution voltage     440 V       Rated insolution voltage     4 kV       Rated frequency     50 Hz       Current heat loss per current path     4.3 W       Back-up fuse type     gG       Overvoltage class     III       Connecting coductors per terminal top, bottom (load circuit)       number of conductors per terminal     1. wire: 1 mm <sup>2</sup>	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 voltage (AC)     25 A       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 finequency     50 Hz       Current beat loss per current path     3 GG       Derivoltage class     III       mmber of conductor position     right       Connection Ca Maximum number of conductors per terminal top, bottom (load circuit)       Neutral conductor position     right       Connecting capacity flexible     1-wire: 1 mm <sup>2</sup>		UD
Internal consumption max. 1.3 W load circuit Specification load disconnect contact Rated voltage (AC)		
Ioad circuit       Specification     Ioad disconnect contact       Rated violtage (AC)     230 V, 400 V       Rated urrent (AC)     25 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     50 Hz       Current heat loss per current path     4.3 W       Back-up fives type     9G       Overvoltage class     III       Secture provestop     5 bHz       Corrent heat loss per current path     2 (conductor position       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 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     440 V       Rated insulation voltage     440 V       Rated frequency     50 Hz       Current heat loss per current path     3       Back-up fuse type     gG       Overvoltage class     III       Screw-type terminal top, bottom (load circuit)       Nutral conductor position     right       Connection C2 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 C3 Maximum     2 (conductors of same type and cross-section)       Consection 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> Connection C3 Maximum     2 (conductors of same type and cross-section)       returnial     1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Consection 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>		
Rated voltage (AC)   230 V, 400 V     Rated soltage (AC)   25 A     Rated solt-circuit current   6 kA     Surge current strength   3 kA     max. Total rated switching   6 kA     capacity   6 kA     Rated inpulse withstand voltage   4 kV     Rated insulation voltage   4 kV     Rated inpulse withstand voltage   4 kV     Rated insulation voltage   6 kA     Current heat loss per current path   4.3 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   1-wire: 1 mm² 35 mm², 2-wire: 1 mm² 10 mm²     Consection 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     Connecting capacity flexible   1-wire: 1 mm² 20 mm², 2-wire: 1 mm² 10 mm²     Connecting capacity flexible   1-wire: 1 mm² 20 mm², 2-wire: 1 mm² 10 mm²     Connecting capacity flexible   2 mm² 2.4 Nm	Specification	
Rated current (AC)   25 A     Rated source (AC)   25 A     Rated source (current strength)   3 kA     max. Total rated switching capacity   6 kA     Rated insulation voltage   440 V     Rated insulation voltage   4 kV     Rated insubation voltage   4 kV     Rated frequency   50 Hz     Current heat loss per current path   4.3 W     path   3     Back-up fuse type   gG     Overvoltage class   III     Connecting capacity field   2 (conductors of same type and cross-section) number of conductors per terminal top, bottom (load circuit)     Neutral conductor per terminal   2 (conductors of same type and cross-section) number of conductors per terminal     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 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>	•	
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   9 G     Overvoltage class   III     Surge conductor position   right     Connection Ca Maximum number of conductors per terminal   2 (conductors of same type and cross-section)     Consection solid   1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm²     Consection solid   1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm²     Consection solid   1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm²     Consection solid   1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm²     Consection stranded   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     Tightening torque   2 Nm 2.4 Nm     General data   Operating position     Operating position   optional     Mechanical endurance   min. 2000 switching cycles     Electrical endurance   <		
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 sW     Rated insulation voltage   4 sW     Rated insulation voltage   90 Hz     Current heat loss per current path   4.3 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)     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> 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> 35 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Consection stranded   1-wire: 1 mm <sup>2</sup> 24 Nm     General data   Operating position     Operating position   optional     Mechanical endurance <t< td=""><td></td><td></td></t<>		
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   9G     Back-up fuse type   9G     Overvoltage class   III     Overvoltage class   III     Outcotor position   right     Connection C1 Maximum number of conductors per terminal   2 (conductors of same type and cross-section)     Consection Solid   1-wire: 1 mm²35 mm²; 2-wire: 1 mm²10 mm²     Connecting capacity flexible   1-wire: 1 mm²25 mm²; 2-wire: 1 mm²10 mm²     Connecting capacity flexible   1-wire: 1 mm²25 mm²; 2-wire: 1 mm²10 mm²     Consection stranded   1-wire: 1 mm²25 mm²; 2-wire: 1 mm²10 mm²     Consection stranded   1-wire: 1 mm²		
capacityRated insulation voltage440 VRated insulation voltage4 kVRated frequency50 HzCurrent heat loss per current path4.3 WBack-up fuse typeGGOvervoltage classIIIOvervoltage classIIIConnection Ca Maximum number of conductors per terminal2 (conductors of same type and cross-section) number of conductors per terminalCoss section solid1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm²Coss section solid1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Coss section stranded1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Coss section stranded1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Coss section stranded1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Coss section stranded1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Coss section stranded1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Coss section stranded1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Coss section stranded1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Coss section stranded1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Coss section stranded2 Nm 2.4 NmCoss section stranded2 Nm 2.4 NmCoss section stranded0Coss section stranded0Coss section strande0Coss section strande0Coss section strande0Coss section strande0Coss section strande0Coss section strande0<		
Rated impulse withstand voltage   4 kV     Rated frequency   50 Hz     Current heat loss per current path   4.3 W     path   gG     Overvoltage class   III     Outrot of the stype   0 gG     Overvoltage class   III     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)     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> Consection 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> Tightening torque   2 Nm 2.4 Nm     General data   Operating position     Operating position   optional     Mechanical endurance   min. 2000 switching cycles     Electrical endurance   min. 2000 switching cycles	capacity	
Rated frequency   50 Hz     Current heat loss per current path   4.3 W     Back-up fuse type   gG     Overvoltage class   III     Multiple   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		
Current heat loss per current path   4.3 W     Back-up fuse type   gG     Overvoltage class   III     Neutral conductor position   right     Connection C1 Maximum or conductors of same type and cross-section)   number of conductors per terminal     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 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 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   1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup> Cons 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> Condition 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> C		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 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 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 24 NmGeneral dataOperating positionOperating positionoptionalMechanical endurancemin. 2000 switching cyclesElectrical endurancemin. 2000 switching cyclesAmbient temperature-25 °C 40 °CClimate resistance2 og g og g or ms DurationFatigue limit> 5 g (f ≤ 80 Hz, duration > 30 min.)Housing typedistribution board housingInstallation typeMounting rail (35 mm)	Rated frequency	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> 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 ≤ 8 hz, duration > 30 min.)       Housing type     distribution board housing       Installation type     Mounting rail (35 mm)       Housing material     thermoplastic	·	4.3 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 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 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 stranded01-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 mm²Mechanical endurance0 min 2000 switching cyclesElectrical endurancemin. 5000 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 materialthermoplasticProtection classIP20 (ins	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 resistance2 og / 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)	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 NmCoperating positionOperating 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 typedistribution board housingInstallation typeMounting rail (35 mm)Housing materialIP20 (installed: IP40)		screw-type terminal top, bottom (load circuit)
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Housing material thermoplastic   Protection class IP20 (installed: IP40)		
Protection class IP20 (installed: IP40)		
		•
wiath 80 mm		
	width	80 mm

2/3

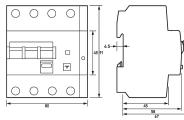
## Doepke

The experts in residual current protection technology

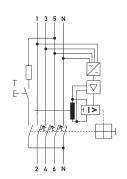
Technical Data	DRCBO 4 B25/0,30/3N-B+
Height	91 mm
Depth	73.5 mm
Installation depth	67 mm
Module widths	4.5
Weight	0.323 kg
Design requirements/Standards	VDE 0664-20, VDE 0664-40, VDE 0664-401, EN 61009-1, EN 62423, ÖVE/ÖNORM E 8601
Power limitation category	3
Degree of pollution	2
Certifications	VDE

### Dimensions

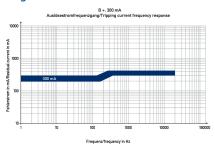
Dimensional drawing Group view



Wiring example



Diagrams



Characteristic B+ 300 mA

Wiring diagram