

DATA SHEET

Article number: 09204781

circuit-breakers with residual current trip DFL 8 200-4/0,03-A

sensitive to pulsating and alternating currents Type







Function

CBRs (circuit-breakers with integral residual current protection) are circuit-breakers with a magnetic and thermal overcurrent trip and a residual current trip. The circuit-breaker with residual current trip is used for overcurrent protection of equipment, cables and lines in accordance with DIN VDE 0100-430 and for protection against electrical shock by automatic switch-off of the power supply as per DIN VDE 0100-410. This series contains compact devices for rated currents up to 250 A with integrated auxiliary switch and terminals for large cable cross-sections. The devices are preferably mounted on a mounting plate. Type A residual current circuit-breakers are sensitive to pulsating and alternating currents. This function is independent of the mains voltage. Switches of this variant have a fixed residual response current of 30 mA for the protection of persons. They therefore provide fault and fire protection as well as additional protection (personal protection, protection in the event of direct contact). Standard variant devices are designed for the monitoring of circuits with a rated voltage of 400 V/690 V and a rated frequency of 50 Hz.

fixed rated residual current of 0.03 A, type range with rated currents from 100 A to 250 A, four-pole, rated voltage 400/690 V AC, detection of AC residual currents and pulsating DC residual currents, function range of the residual current trip o-690 V, function range of the residual current operated protective device 280-690 V, trip independent of the mains voltage and auxiliary voltage when overcurrent and residual currents occur, high short-circuit switching capacity, terminals up to 185 mm², high surge current strength, i.e. low tendency to faulty trips due to transient residual currents , thresholds adjustable for instantaneous and slow-blow overcurrent trip , integrated auxiliary switches

Mounting

mounting on mounting plate, any installation position, supply from any direction

power supplies to purpose-built buildings as well as industrial facilities with TN-S, TT and TN-C-S networks with high short-circuit power, In IT networks, the residual current trip of the CBR can be set to switch off in the event of a second earth fault., use for residual current protection in TN-C networks is excluded

Notes

The type A CBR does not provide comprehensive protection in systems containing electronic equipment can cause smooth DC residual currents or residual currents with frequencies not equal to 50 Hz. For these applications we recommend our AC/DC sensitive CBR type B.

Accessories

housing N-7

Technical data

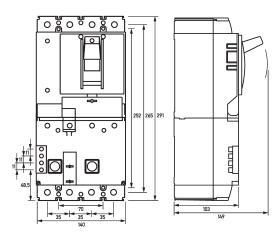
| Series | DFL 8 A |
|--|---|
| Number of poles | 4 |
| Residual current type | A |
| Rated current (AC) | 200 A |
| Rated residual current I∆n | o.o3 A |
| Short-time delayed | true |
| Selective | false |
| min. Operating voltage range of test circuit | 280 V |
| max. Operating voltage range of test circuit | 759 V |
| Non-trip time | 10 ms |
| Selectivity adjustable | false |
| Response delay | 1 · IΔn: o ms < T ≤ 300 ms; 5 · IΔn: o ms < T ≤ 40 ms |
| Adjustment range of overload tripping | 0.8 1 |

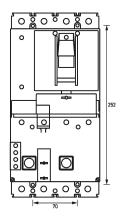
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| Adjustment range of short-circuit tripping Power dissipation Pv release | 6 10 72 W |
|--|---|
| Rated operation short-circuit disconnecting | 85 kA at Rated operation short-circuit disconnecting capacity lcs (240 V AC); |
| capacity lcs | 50 kA at Rated operation short-circuit disconnecting capacity ics (240 V AC), |
| apacity ics | |
| | AC); 35 kA at Rated operation short-circuit disconnecting capacity Ics (440 V |
| | AC); 25 kA at Rated operation short-circuit disconnecting capacity Ics (525 V |
| | AC) 5 kA at Rated operation short-circuit disconnecting capacity lcs (690 V AC) |
| lated short-circuit disconnecting capacity | 85 kA at Rated short-circuit disconnecting capacity limit lcu (240 V AC); |
| mit lcu | 50 kA at Rated short-circuit disconnecting capacity limit lcu (400/415 V AC); |
| | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); |
| | 25 kA at Rated short-circuit disconnecting capacity limit lcu (525 V AC) |
| | 20 kA at Rated short-circuit disconnecting capacity limit lcu (690 V AC) |
| Rated short-circuit connection and | 85 kA at Rated short-circuit connection and disconnection capacity Idm |
| | (240 V AC); 50 kA at Rated short-circuit connection and disconnection |
| disconnection capacity l∆m | capacity Idm (400/415 V AC); 35 kA at Rated short-circuit connection |
| | |
| | and disconnection capacity Idm (440 V AC); 25 kA at Rated short-circuit |
| | connection and disconnection capacity Idm (525 V AC) 20 kA at Rated |
| | short-circuit connection and disconnection capacity Idm (690 V AC) |
| Operating voltage (AC) | 690 V (max. 759 V) |
| Operating frequency | 50 Hz |
| nternal consumption | 2.5 W 3 W |
| Rated insulation voltage | 1000 V |
| ·· y · | Display (status output) |
| Number | 1 |
| | operating lever (black) |
| Туре | |
| | load circuit |
| Specification | load disconnect contact |
| Rated voltage (AC) | 400 V, 690 V |
| Tolerance of rated voltage | max. 10 % |
| Rated current (AC) | 200 A |
| Surge current strength | 5 kA |
| Rated impulse withstand voltage | 8 kV |
| | |
| Rated frequency | 50 Hz |
| Current heat loss per current path | 16 W |
| Electrical endurance AC-1 | 7500 Schaltspiele |
| Short-circuit backup-fuse SCPD | 250 A |
| Back-up fuse type | qG |
| Back-up fuse (textual) | only required if the short-circuit current to be expected at the |
| | installation location exceeds the switching capacity of the circuit-breaker |
| Overvoltage class | |
| Overvoitage class | auxiliary switches |
| Caraticatica | |
| Specification | switching contact |
| Rated insulation voltage | 500 V |
| Rated impulse withstand voltage | 6 kV |
| Allowed utilization category | AC-15, DC-13 |
| Rated current (AC-15) | 6 A (230 V); 4 A (400 V) 2 A (500 V) |
| Rated current (DC-13) | 3 A (24 V); 0.8 A (110 V) 0.3 A (220 V) |
| Rated short-circuit disconnecting capacity | 85 kA at Rated short-circuit disconnecting capacity limit lcu (240 V AC); |
| 3 . , | 50 kA at Rated short-circuit disconnecting capacity limit icu (240 V AC); |
| limit lcu | 50 KM at Mateu Short-chicult disconnecting capacity IIIIII ICU (400/414 V AC); |
| IIIIIL ICU | |
| iffilt ico | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); |
| initico | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); 25 kA at Rated short-circuit disconnecting capacity limit lcu (525 V AC) |
| initico | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); 25 kA at Rated short-circuit disconnecting capacity limit lcu (525 V AC) 20 kA at Rated short-circuit disconnecting capacity limit lcu (690 V AC) |
| Rated operation short-circuit disconnecting | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); 25 kA at Rated short-circuit disconnecting capacity limit lcu (525 V AC) |
| | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); 25 kA at Rated short-circuit disconnecting capacity limit lcu (525 V AC) 20 kA at Rated short-circuit disconnecting capacity limit lcu (690 V AC) |
| Rated operation short-circuit disconnecting | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); 25 kA at Rated short-circuit disconnecting capacity limit lcu (525 V AC) 20 kA at Rated short-circuit disconnecting capacity limit lcu (690 V AC) 85 kA at Rated operation short-circuit disconnecting capacity lcs (240 V AC); 50 kA at Rated operation short-circuit disconnecting capacity lcs (400/415 V |
| Rated operation short-circuit disconnecting | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); 25 kA at Rated short-circuit disconnecting capacity limit lcu (525 V AC) 20 kA at Rated short-circuit disconnecting capacity limit lcu (690 V AC) 85 kA at Rated operation short-circuit disconnecting capacity lcs (240 V AC); 50 kA at Rated operation short-circuit disconnecting capacity lcs (400/415 V AC); 35 kA at Rated operation short-circuit disconnecting capacity lcs (440 V |
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| Rated operation short-circuit disconnecting capacity Ics | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); 25 kA at Rated short-circuit disconnecting capacity limit lcu (525 V AC) 20 kA at Rated short-circuit disconnecting capacity limit lcu (690 V AC) 85 kA at Rated operation short-circuit disconnecting capacity lcs (240 V AC); 50 kA at Rated operation short-circuit disconnecting capacity lcs (400/415 V AC); 35 kA at Rated operation short-circuit disconnecting capacity lcs (440 V AC); 25 kA at Rated operation short-circuit disconnecting capacity lcs (650 V AC) 690 V AC) 5 kA at Rated operation short-circuit disconnecting capacity lcs (690 V AC) |
| Rated operation short-circuit disconnecting capacity lcs Rated short-circuit connection and | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); 25 kA at Rated short-circuit disconnecting capacity limit lcu (525 V AC) 20 kA at Rated short-circuit disconnecting capacity limit lcu (690 V AC) 85 kA at Rated operation short-circuit disconnecting capacity lcs (240 V AC); 50 kA at Rated operation short-circuit disconnecting capacity lcs (400/415 V AC); 35 kA at Rated operation short-circuit disconnecting capacity lcs (440 V AC); 25 kA at Rated operation short-circuit disconnecting capacity lcs (525 V AC) 5 kA at Rated operation short-circuit disconnecting capacity lcs (690 V AC) 85 kA at Rated short-circuit connection and disconnection capacity ldm |
| Rated operation short-circuit disconnecting capacity lcs Rated short-circuit connection and | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); 25 kA at Rated short-circuit disconnecting capacity limit lcu (525 V AC) 20 kA at Rated short-circuit disconnecting capacity limit lcu (690 V AC) 85 kA at Rated operation short-circuit disconnecting capacity lcs (240 V AC); 50 kA at Rated operation short-circuit disconnecting capacity lcs (400/415 V AC); 35 kA at Rated operation short-circuit disconnecting capacity lcs (440 V AC); 25 kA at Rated operation short-circuit disconnecting capacity lcs (525 V AC) 5 kA at Rated operation short-circuit disconnecting capacity lcs (690 V AC) 85 kA at Rated short-circuit connection and disconnection capacity ldm (240 V AC); 50 kA at Rated short-circuit connection and disconnection |
| Rated operation short-circuit disconnecting | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); 25 kA at Rated short-circuit disconnecting capacity limit lcu (525 V AC) 20 kA at Rated short-circuit disconnecting capacity limit lcu (690 V AC) 85 kA at Rated operation short-circuit disconnecting capacity lcs (240 V AC); 50 kA at Rated operation short-circuit disconnecting capacity lcs (400/415 V AC); 35 kA at Rated operation short-circuit disconnecting capacity lcs (440 V AC); 25 kA at Rated operation short-circuit disconnecting capacity lcs (525 V AC) 5 kA at Rated operation short-circuit disconnecting capacity lcs (690 V AC) 85 kA at Rated short-circuit connection and disconnection capacity ldm (240 V AC); 50 kA at Rated short-circuit connection and disconnection capacity ldm (400/415 V AC); 35 kA at Rated short-circuit connection |
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| Rated operation short-circuit disconnecting capacity lcs Rated short-circuit connection and | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); 25 kA at Rated short-circuit disconnecting capacity limit lcu (525 V AC) 20 kA at Rated short-circuit disconnecting capacity limit lcu (690 V AC) 85 kA at Rated operation short-circuit disconnecting capacity lcs (240 V AC); 50 kA at Rated operation short-circuit disconnecting capacity lcs (400/415 V AC); 35 kA at Rated operation short-circuit disconnecting capacity lcs (440 V AC); 25 kA at Rated operation short-circuit disconnecting capacity lcs (525 V AC) 5 kA at Rated operation short-circuit disconnecting capacity lcs (690 V AC) 85 kA at Rated short-circuit connection and disconnection capacity ldm (240 V AC); 50 kA at Rated short-circuit connection and disconnection capacity ldm (400/415 V AC); 35 kA at Rated short-circuit connection |
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| Rated operation short-circuit disconnecting capacity lcs Rated short-circuit connection and disconnection capacity IΔm | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); 25 kA at Rated short-circuit disconnecting capacity limit lcu (525 V AC) 20 kA at Rated short-circuit disconnecting capacity limit lcu (690 V AC) 85 kA at Rated operation short-circuit disconnecting capacity lcs (240 V AC); 50 kA at Rated operation short-circuit disconnecting capacity lcs (400/415 V AC); 35 kA at Rated operation short-circuit disconnecting capacity lcs (440 V AC); 25 kA at Rated operation short-circuit disconnecting capacity lcs (525 V AC) 5 kA at Rated operation short-circuit disconnecting capacity lcs (690 V AC) 85 kA at Rated short-circuit connection and disconnection capacity ldm (240 V AC); 50 kA at Rated short-circuit connection and disconnection capacity ldm (400/415 V AC); 35 kA at Rated short-circuit connection and disconnection capacity ldm (400/415 V AC); 35 kA at Rated short-circuit connection and disconnection capacity ldm (525 V AC) 20 kA at Rated short-circuit connection and disconnection and disconnection capacity ldm (690 V AC) |
| Rated operation short-circuit disconnecting capacity Ics Rated short-circuit connection and disconnection capacity I\Delta m | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); 25 kA at Rated short-circuit disconnecting capacity limit lcu (525 V AC) 20 kA at Rated short-circuit disconnecting capacity limit lcu (690 V AC) 85 kA at Rated operation short-circuit disconnecting capacity lcs (240 V AC); 50 kA at Rated operation short-circuit disconnecting capacity lcs (400/415 V AC); 35 kA at Rated operation short-circuit disconnecting capacity lcs (440 V AC); 25 kA at Rated operation short-circuit disconnecting capacity lcs (525 V AC) 5 kA at Rated operation short-circuit disconnecting capacity lcs (690 V AC) 85 kA at Rated short-circuit connection and disconnection capacity ldm (240 V AC); 50 kA at Rated short-circuit connection and disconnection capacity ldm (400/415 V AC); 35 kA at Rated short-circuit connection and disconnection capacity ldm (440 V AC); 25 kA at Rated short-circuit connection and disconnection capacity ldm (690 V AC) box terminal top and bottom (load circuit) |
| Rated operation short-circuit disconnecting capacity Ics Rated short-circuit connection and disconnection capacity I\Delta m | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); 25 kA at Rated short-circuit disconnecting capacity limit lcu (525 V AC) 20 kA at Rated short-circuit disconnecting capacity limit lcu (690 V AC) 85 kA at Rated operation short-circuit disconnecting capacity lcs (240 V AC); 50 kA at Rated operation short-circuit disconnecting capacity lcs (400/415 V AC); 35 kA at Rated operation short-circuit disconnecting capacity lcs (440 V AC); 25 kA at Rated operation short-circuit disconnecting capacity lcs (525 V AC) 5 kA at Rated operation short-circuit disconnecting capacity lcs (690 V AC) 85 kA at Rated short-circuit connection and disconnection capacity ldm (240 V AC); 50 kA at Rated short-circuit connection and disconnection capacity ldm (400/415 V AC); 35 kA at Rated short-circuit connection and disconnection capacity ldm (440 V AC); 25 kA at Rated short-circuit connection and disconnection capacity ldm (690 V AC) box terminal top and bottom (load circuit) left finger and back-of-hand proof |
| Rated operation short-circuit disconnecting capacity Ics Rated short-circuit connection and disconnection capacity I\Delta m | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); 25 kA at Rated short-circuit disconnecting capacity limit lcu (525 V AC) 20 kA at Rated short-circuit disconnecting capacity limit lcu (690 V AC) 85 kA at Rated operation short-circuit disconnecting capacity lcs (240 V AC); 50 kA at Rated operation short-circuit disconnecting capacity lcs (400/415 V AC); 35 kA at Rated operation short-circuit disconnecting capacity lcs (440 V AC); 25 kA at Rated operation short-circuit disconnecting capacity lcs (525 V AC) 5 kA at Rated operation short-circuit disconnecting capacity lcs (690 V AC) 85 kA at Rated short-circuit connection and disconnection capacity ldm (240 V AC); 50 kA at Rated short-circuit connection and disconnection capacity ldm (400/415 V AC); 35 kA at Rated short-circuit connection and disconnection capacity ldm (440 V AC); 25 kA at Rated short-circuit connection and disconnection capacity ldm (690 V AC) box terminal top and bottom (load circuit) left finger and back-of-hand proof copper conductor, solid conductor, flexible |
| Rated operation short-circuit disconnecting capacity lcs Rated short-circuit connection and | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); 25 kA at Rated short-circuit disconnecting capacity limit lcu (525 V AC) 20 kA at Rated short-circuit disconnecting capacity limit lcu (690 V AC) 85 kA at Rated operation short-circuit disconnecting capacity lcs (240 V AC); 50 kA at Rated operation short-circuit disconnecting capacity lcs (400/415 V AC); 35 kA at Rated operation short-circuit disconnecting capacity lcs (440 V AC); 25 kA at Rated operation short-circuit disconnecting capacity lcs (525 V AC) 5 kA at Rated operation short-circuit disconnecting capacity lcs (690 V AC) 85 kA at Rated short-circuit connection and disconnection capacity ldm (240 V AC); 50 kA at Rated short-circuit connection and disconnection and disconnection capacity ldm (440 V AC); 25 kA at Rated short-circuit connection and disconnection and disconnection capacity ldm (690 V AC) box terminal top and bottom (load circuit) left finger and back-of-hand proof copper conductor, solid conductor, flexible conductor, stranded conductors with ferrule |
| Rated operation short-circuit disconnecting capacity lcs Rated short-circuit connection and disconnection capacity I\Delta m Neutral conductor position Protection against direct contact Allowed types of wires Clamping area | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); 25 kA at Rated short-circuit disconnecting capacity limit lcu (525 V AC) 20 kA at Rated short-circuit disconnecting capacity limit lcu (690 V AC) 85 kA at Rated operation short-circuit disconnecting capacity lcs (240 V AC); 50 kA at Rated operation short-circuit disconnecting capacity lcs (400/415 V AC); 35 kA at Rated operation short-circuit disconnecting capacity lcs (440 V AC); 25 kA at Rated operation short-circuit disconnecting capacity lcs (525 V AC) 5 kA at Rated operation short-circuit disconnecting capacity lcs (690 V AC) 85 kA at Rated short-circuit connection and disconnection capacity ldm (240 V AC); 50 kA at Rated short-circuit connection and disconnection capacity ldm (400/415 V AC); 35 kA at Rated short-circuit connection and disconnection capacity ldm (440 V AC); 25 kA at Rated short-circuit connection and disconnection capacity ldm (690 V AC) box terminal top and bottom (load circuit) left finger and back-of-hand proof copper conductor, solid conductor, flexible |
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| Rated operation short-circuit disconnecting capacity lcs Rated short-circuit connection and disconnection capacity I\Delta m Neutral conductor position Protection against direct contact Allowed types of wires Clamping area Connection C1 Maximum number of | 35 kA at Rated short-circuit disconnecting capacity limit lcu (440 V AC); 25 kA at Rated short-circuit disconnecting capacity limit lcu (525 V AC) 20 kA at Rated operation short-circuit disconnecting capacity limit lcu (690 V AC); 50 kA at Rated operation short-circuit disconnecting capacity lcs (240 V AC); 50 kA at Rated operation short-circuit disconnecting capacity lcs (440 V AC); 35 kA at Rated operation short-circuit disconnecting capacity lcs (525 V AC); 4 kA at Rated operation short-circuit disconnecting capacity lcs (525 V AC); 5 kA at Rated operation short-circuit disconnecting capacity lcs (690 V AC) 85 kA at Rated short-circuit connection and disconnection capacity ldm (240 V AC); 50 kA at Rated short-circuit connection and disconnection capacity ldm (400/415 V AC); 35 kA at Rated short-circuit connection and disconnection capacity ldm (440 V AC); 25 kA at Rated short-circuit connection and disconnection capacity ldm (525 V AC) 20 kA at Rated short-circuit connection and disconnection capacity ldm (690 V AC) box terminal top and bottom (load circuit) left finger and back-of-hand proof copper conductor, solid conductor, flexible conductor, stranded conductors with ferrule 4 mm² 185 mm² |

| Tightening torque | max. 14 Nm |
|-------------------------------------|---|
| | screw-type terminal left (auxiliary switches) |
| Protection against direct contact | finger and back-of-hand proof |
| Clamping area | 0.75 mm ² 2.5 mm ² |
| Connection C2 Maximum number of | 2 |
| conductors per terminal | |
| Cross section solid | 1-wire: 0.75 mm² 2.5 mm²; 2-wire: 0.75 mm² 1.5 mm² |
| Connecting capacity flexible | 2-wire: 0.75 mm² 1.5 mm² |
| Cross section flexible with ferrule | 0.75 mm ² 2.5 mm ² |
| Cross section stranded | 1-wire: 0.75 mm ² 2.5 mm ² ; 2-wire: 0.75 mm ² 1.5 mm ² |
| Tightening torque | max. o.8 Nm |
| | General data |
| Operating position | 90° tilted, vertical |
| max. Operating altitude above MSL | 2000 m |
| Mechanical endurance | min. 2000 switching cycles |
| Electrical endurance | min. 2000 switching cycles |
| Surrounding atmosphere | normal environmental conditions |
| Storage temperature | -40 °C 70 °C |
| Ambient temperature | -25 °C 70 °C |
| Climate resistance | constant as per IEC 60068-2-78, cyclical as per IEC 60068-2-30 |
| Shock resistance | 20 g / 20 ms Duration |
| Fatigue limit | 1,0 g (f = 2 - 100 Hz) (IEC 60068-2-6) |
| Housing type | wall-mounted housing |
| Installation type | Wall mounting |
| Protection class | IP20 (installed: IP40) |
| sealable | true |
| Width | 140 mm |
| Height | 291 mm |
| Depth | 103 mm |
| Installation depth | 149 mm |
| Weight | 6.1 kg |
| Design requirements/Standards | DIN IEC 60755, EN 60947-2, EN 60947-2 Annex B, VDE 0660-101 |
| Degree of pollution | 3 |

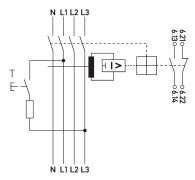
Dimensions





Dimensioned drawing circuit-breakers with residual current trip DFL 8 200-4/0,03-A

Wiring example



Wiring example circuit-breakers with residual current trip DFL 8 200-4/0,03-A