Doepke



DATA SHEET

residual current circuit-breaker DFS 2 025-2/0,03-AC sensitive to residual currents Type AC Article number 09124602



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Function

Residual current circuit-breakers (RCCBs) are components for implementing protective measure "Automatic disconnection of the power supply" as per VDE 0100 part 410 or corresponding international installation regulations. Series DFS 2 devices are compact two-pole residual current circuit-breakers for single-phase networks. In the standard design, they only take up two module-width units of space. In spite of the compact dimensions, a number of different tripping currents and characteristics are available at rated currents, depending on the design, up to 125 A. They also have large two-tier terminals for large conductor cross-sections, a practical multi-functional switch toggle and can be provided with labels using free-of-charge software. Switches with residual current characteristic AC only detect AC residual currents. They cannot detect pulsating DC residual currents so are not permitted for use as residual current operated protective devices in Germany. They are therefore only available as export models. Devices in the standard design are intended for monitoring circuits with a rated voltage of 230 V and a rated frequency of 50 Hz.

Features

tripping not dependent on mains and auxiliary voltage, sensitive to AC residual currents (type AC), compact design for all rated currents, high short-circuit resistance, double-sided two-tier terminals for large conductor cross-section and busbar, switch position indicator, viewing window for labels, multifunction switch toggle with three positions: "on", "off" and "tripped", Neutral conductor position left or right

Mounting

quick fastening to mounting rail, any installation position, supply from any direction

Applications

Power supplies to residential and purpose-built buildings as well as industrial facilities with TN-S, TT and TN-C-S networks. In IT networks, the residual current circuit-breakers of this series can be set to switch off in the event of a second fault, Not permitted for use in TN-C networks; not permitted for protecting systems in which electronic equipment may cause pulsating or smooth DC residual currents or residual currents with frequencies not equal to 50 Hz. Comprehensive protection is not provided with an RCCB type AC. For these applications we recommend our residual current circuit-breaker type A or our AC/DC sensitive residual current circuit-breaker type B/B+.

Accessories

automatic reclosing devices DFA, terminal caps KA, information stickers HAS, auxiliary switches DHi, restart locks DFS WES, software DBS

Technical Data

| Technical Data | DFS 2 025-2/0,03-AC |
|--|---------------------|
| Series | DFS 2 AC |
| Number of poles | 2 |
| Residual current type | AC |
| Rated current (AC) | 25 A |
| Rated residual current IAn | 0.03 A |
| Short-time delayed | false |
| Selective | false |
| min. Operating voltage range of test circuit | 150 V |
| max. Operating voltage range of test circuit | 250 V |

| Maximum disconnection times 1 · Lôn : ≤ gon ms; 5 · Lôn : ≤ 40 ms Ioad dircuit Joad dircuit Specification Ioad disconnect contact min. Contact opening 4 mm Rated viotage (AC) 230 V Rated urrent (AC) 35 A Rated urrent strength 0.25 kA max. Total rated switching 500 A capacity 500 A Rated insulation voltage 4 kV Rated frequency 50 Hz Current heat loss per current path 0.5 W Backup-fuse type 9G Sont-circuit backup-fuse SCPD 200 A Backup fuse type 10 GUV V3, VDE of66- staf, finger and back-of-hand proof Connecting capacity flexible 1- wire: 1.5 | Technical Data | DFS 2 025-2/0,03-AC |
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| Operating positionoptionalmax. Operating altitude above MSL2000 mMechanical endurancemin. 5000 cyclesElectrical endurancemin. 2000 cyclesSurrounding atmospherenormal environmental conditionsStorage temperature-35 °C 75 °CAmbient temperature-25 °C 40 °CClimate resistanceaccording to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)Shock resistance20 g / 20 ms Duration | <u> </u> | |
| max. Operating altitude above MSL2000 mMechanical endurancemin. 5000 cyclesElectrical endurancemin. 2000 cyclesSurrounding atmospherenormal environmental conditionsStorage temperature-35 °C 75 °CAmbient temperature-25 °C 40 °CClimate resistanceaccording to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)Shock resistance20 g / 20 ms Duration | Operating position | |
| Mechanical endurancemin. 5000 cyclesElectrical endurancemin. 2000 cyclesSurrounding atmospherenormal environmental conditionsStorage temperature-35 °C 75 °CAmbient temperature-25 °C 40 °CClimate resistanceaccording to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)Shock resistance20 g / 20 ms Duration | max. Operating altitude above | |
| Electrical endurancemin. 2000 cyclesSurrounding atmospherenormal environmental conditionsStorage temperature-35 °C 75 °CAmbient temperature-25 °C 40 °CClimate resistanceaccording to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)Shock resistance20 g / 20 ms Duration | | min. 5000 cycles |
| Surrounding atmospherenormal environmental conditionsStorage temperature-35 °C 75 °CAmbient temperature-25 °C 40 °CClimate resistanceaccording to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)Shock resistance20 g / 20 ms Duration | | |
| Storage temperature-35 °C 75 °CAmbient temperature-25 °C 40 °CClimate resistanceaccording to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)Shock resistance20 g / 20 ms Duration | | • |
| Ambient temperature-25 °C 40 °CClimate resistanceaccording to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)Shock resistance20 g / 20 ms Duration | | |
| Climate resistanceaccording to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)Shock resistance20 g / 20 ms Duration | | |
| Shock 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 IP20 (installed: IP40) | | • |
| sealable true | | |
| Width 36 mm | | |

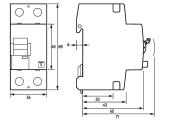
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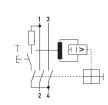
The experts in residual current protection technology

| Technical Data | DFS 2 025-2/0,03-AC |
|-------------------------------|-----------------------------|
| Height | 85 mm |
| Depth | 75 mm |
| Installation depth | 69 mm |
| Module widths | 2 |
| Weight | 0.25 kg |
| Design requirements/Standards | VDE 0664-10, DIN EN 61008-1 |
| Degree of pollution | 2 |

Dimensions

Wiring example





Dimensional drawing Group view

Wiring diagram