

DATA SHEET

Article number: 09114624

residual current circuit-breaker DFS 2 016-2/0,03-AC Hz60

sensitive to residual currents Type AC, for frequencies ≠ 50 Hz



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Function

Residual current circuit-breakers (RCCBs) are components for implementing protective measure "Automatic disconnection of the power supply" as per IEC 60364-4-41 or corresponding national 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 Hz design are intended for rated mains frequencies other than 50Hz. Common frequencies are 60 or 400 Hz; devices for other frequencies can be manufactured upon request. The frequency range for tripping current detection remains unaffected by this.

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 TT, TN-S and TN-C-S networks with mains frequencies > 50 Hz, 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

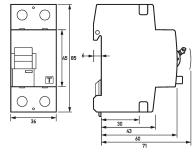
Technical data

Series	DFS 2 AC Hz
Number of poles	2
Residual current type	AC
Rated current (AC)	16 A
Rated residual current I∆n	o.o3 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 · I∆n: ≤ 300 ms; 5 · I∆n: ≤ 40 ms
	load circuit
Specification	load disconnect contact
min. Contact opening	4 mm
Rated voltage (AC)	230 V
Rated current (AC)	16 A
Rated short-circuit current	10 kA
Surge current strength	0.25 kA

Technical changes reserved 2025_11_29 doepke_09114624_dbl_en.pdf

Rated insulation voltage Rated insulation voltage Rated insulation withstand voltage Rated insulation withstand voltage Rated frequency Current heat loss per current path Discovery Current path Discovery Current path Discovery Current path Discovery Discov	max. Total rated switching capacity	500 A
A kV Rated frequency		·
Rated frequency	3	·
Current heat loss per current path 0.18 W Thermal Backup-fuse OCPD 16 A Short-circuit backup-fuse SCPD 100 A Back-up fuse type 9G I'st strength 48 kA*s Dynamic current strength Ip 6 kA Neutral conductor position left or right Protection against direct contact DSUV V3, VDE o660-514, finger and back-of-hand proof Connection C1 Maximum number of 2 (conductors of same type and cross-section) conductors per terminal 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Cross section AWG, Solid 15 1 Cross section AWG, Stranded 15 1 Cross section AWG, flexible with ferrule 15 1 Tightening torque 2.5 mm 3 km General data optional aw. Operating position optional aw. Operating position optional aw. Operating allitude above MSL 200 m Mechanical endurance min. 2000 cycles <td></td> <td>·</td>		·
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Weight 0.259 kg Design requirements/Standards VDE 0664-10, DIN EN 61008-1		· ·
Design requirements/Standards VDE 0664-10, DIN EN 61008-1		
	3	
	Degree of pollution	2

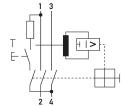
Dimensions



Dimensioned drawing residual current circuit-breaker DFS 2 016-2/0,03-AC Hz60

Technical changes reserved 2025_11_29 doepke_09114624_dbl_en.pdf 2/3

Wiring example



Wiring example residual current circuit-breaker DFS 2 016-2/0,03-AC Hz60