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# **DATA SHEET**

residual current circuit-breaker DFS 2 016-2/0,01-AC V110 sensitive to residual currents Type AC, Rated voltage 110 V Article number 09112626



### 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 design V are made for special voltages.

#### Mounting

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

#### Notes

Other special voltages available upon request

#### 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 2 016-2/0,01-AC V110
Series	DFS 2 AC V
Number of poles	2
Residual current type	AC
Rated current (AC)	16 A
Rated residual current IAn	0.01 A
Short-time delayed	false
Selective	false
min. Operating voltage range of test circuit	100 V
max. Operating voltage range of test circuit	150 V
Maximum disconnection times	$1 \cdot I\Delta n: \le 300 \text{ ms}; 5 \cdot I\Delta n: \le 40 \text{ ms}$
	load circuit
Specification	load disconnect contact
min. Contact opening	4 mm
Rated voltage (AC)	110 V
Rated current (AC)	16 A
Rated short-circuit current	10 kA
Surge current strength	0.25 kA

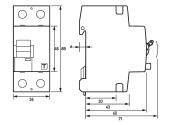
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Technical Data	DFS 2 016-2/0,01-AC V110
max. Total rated switching capacity	500 A
Rated insulation voltage	400 V
Rated impulse withstand voltage	4 kV
Rated frequency	50 Hz
Current heat loss per current bath	1.2 W
Thermal Backup-fuse OCPD	16 A
Short-circuit backup-fuse SCPD	63 A
Back-up fuse type	gG
	screw-type terminal top and bottom (load circuit)
Neutral conductor position	left or right
Protection against direct contact	DGUV V3, VDE 0660-514, finger and back-of-hand proof
Connection C1 Maximum number of conductors per terminal	2 (conductors of same type and cross-section)
Cross section solid	1-wire: 1.5 mm <sup>2</sup> 50 mm <sup>2</sup> ; 2-wire: 1.5 mm <sup>2</sup> 16 mm <sup>2</sup>
Connecting capacity flexible	1-wire: 1.5 mm <sup>2</sup> 50 mm <sup>2</sup> ; 2-wire: 1.5 mm <sup>2</sup> 16 mm <sup>2</sup>
Cross section stranded	1-wire: 1.5 mm <sup>2</sup> 50 mm <sup>2</sup> ; 2-wire: 1.5 mm <sup>2</sup> 16 mm <sup>2</sup>
Cross section AWG, solid	15 1
Cross section AWG, stranded	15 1
Cross section AWG, flexible	15 1
Cross section AWG, flexible with errule	15 1
Fightening torque	2.5 Nm 3 Nm
	General data
Operating position	optional
nax. Operating altitude above MSL	2000 M
Mechanical endurance	min. 5000 cycles
Electrical endurance	min. 2000 cycles
Surrounding atmosphere	normal environmental conditions
Storage temperature	-35 °C 75 °C
Ambient temperature	-25 °C 40 °C
Climate resistance	according to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)
Shock resistance	20 g / 20 ms Duration
atigue limit	> 5 g (f ≤ 80 Hz, duration > 30 min.)
Housing type	distribution board housing
nstallation type	Mounting rail (35 mm)
Housing material	thermoplastic
Protection class	IP20 (installed: IP40)
sealable	true
Nidth	36 mm
leight	85 mm
Depth	75 mm
nstallation depth	69 mm
Module widths	2
Weight	0.225 kg
Design requirements/Standards	VDE 0664-10, DIN EN 61008-1
Degree of pollution	2

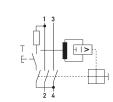
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### Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram