

DATA SHEET

residual current circuit-breaker
DFS 2 063-2/0,50-AC
sensitive to residual currents Type AC
Article number 09147602





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

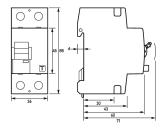
Technical Data

Technical Data	DFS 2 063-2/0,50-AC
Series	DFS 2 AC
Number of poles	2
Residual current type	AC
Rated current (AC)	6 ₃ A
Rated residual current I∆n	0.5 A
Short-time delayed	false
Selective	false
min. Operating voltage range of test circuit	100 V
max. Operating voltage range of test circuit	250 V

Maximum disconnection times 1 - 12n - 3 gao ms, 5 - 12n - 3 qao ms Joad dircuit Specification Joad disconnect contact Joad disconnection times 1 - 12n - 3 gao ms, 5 - 12n - 3 qao ms, 6 qao m	Technical Data	DFS 2 063-2/0,50-AC
Isad circuit Isad		
Specification load disconnect contact min. Contact opening 4 mm Rated voltage (AC) 330 V Rated current (AC) 63 A Rated sourcent (AC) 63 A Rated sourcent (AC) 63 A Rated short-curricut current 30 kA Rated short-curricut current 30 kA Rated short-curricut was 800 A Rated short-curricut short 800 A Rated short-curricut short 800 A Rated insulation voltage 4,6 V Rated insulation voltage 7,8 W Rated insulation voltage		
min. Contact opening Rated voltage (AC) Rated short-circuit current Surge current strength max. Total rated switching Rated durent (AC) Rated short-circuit current Surge current strength max. Total rated switching Rated insulation voltage Rated impulse writestand voltage Rated impulse writestand voltage Rated insulation voltage Rated frequency Sp Hz Current heat loss per current path Path Path Path Path Path Path Path P	Specification	
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Rated insulation voltage Rated impulse withstand voltage Rated frequency Current heat loss per current path Thermal Backup-fuse OCPD 63 A Short-circuit backup-fuse SCPD 100 A Back-up fuse type 9G screw-type terminal top and bottom (load circuit) Rettor right Protection against direct contact DGUV V3, VDE 0660-514, finger and back-of-hand proof Connecting C3 Maximum number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² Cross section solid 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² Cross section AWG, slotanded 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² Cross section AWG, flexible 15 1 Cross section AWG, flexible with ferrule Tighten groupe 2.5 Nm 3 Nm General data Operating position Operating position Operating position Operating altitude above MSL Mechanical endurance Electrical endurance Inormal endur		
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Shock resistance $20 \text{ g/} 20 \text{ ms Duration}$ Fatigue limit $> 5 \text{ g (f} \le 80 \text{ Hz, duration} > 30 \text{ min.})$ Housing typedistribution board housingInstallation typeMounting rail (35 mm)Housing materialthermoplasticProtection classIP20 (installed: IP40)sealabletrue	Ambient temperature	
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Installation type Mounting rail (35 mm) Housing material thermoplastic Protection class IP20 (installed: IP40) sealable true	Fatigue limit	-
Housing material thermoplastic Protection class IP20 (installed: IP40) sealable true	Housing type	distribution board housing
Protection class IP20 (installed: IP40) sealable true	Installation type	Mounting rail (35 mm)
sealable true	Housing material	thermoplastic
	Protection class	IP20 (installed: IP40)
Width 36 mm	sealable	true
	Width	36 mm

Technical Data	DFS 2 063-2/0,50-AC
Height	85 mm
Depth	75 mm
Installation depth	69 mm
Module widths	2
Weight	0.255 kg
Design requirements/Standards	VDE 0664-10, DIN EN 61008-1
Degree of pollution	2

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram