

DATA SHEET

Article number: 09147844

residual current circuit-breaker DFS 4 063-4/0,50-A Hz60 V500 FT

sensitive to pulsating and alternating currents Type A, with remote-tripping function, for frequencies ≠ 50 Hz, Rated voltage 290 V, 500 V



1/3



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 4 devices are compact two or four-pole residual current circuit-breakers. In the standard design, they only take up four module width units of space. Although DFS 4 devices for AC and pulsating DC residual currents are actually designed for three-phase networks, they can also be used in single-phase networks. However, in addition to these, special variants are also available for single or three-phase operation in the form of the AC/DC sensitive designs (type B, type B+). 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. Type A residual current circuit-breakers are sensitive to pulsating and alternating currents. This function is independent of the mains voltage. 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. Devices in design V are made for special voltages.

Mountina

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

Accessories

terminal caps KA, information stickers HAS, restart locks DFS WES, software DBS

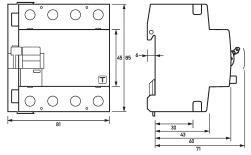
Technical data

Series	DFS 4 A FT Hz V
Number of poles	4
Residual current type	A
Rated current (AC)	63 A
Rated residual current I∆n	0.5 A
Short-time delayed	false
Selective	false
min. Operating voltage range of test circuit	200 V
max. Operating voltage range of test circuit	550 V
	control input
Rated voltage (AC)	500 V
	load circuit
Specification	load disconnect contact
min. Contact opening	4 mm
Rated voltage (AC)	290 V, 500 V
Rated current (AC)	6 ₃ A
Rated short-circuit current	10 kA
Surge current strength	0.25 kA
max. Total rated switching capacity	630 A
Rated insulation voltage	400 V
Rated impulse withstand voltage	4 kV
Rated frequency	6o Hz
Current heat loss per current path	3.1 W
Thermal Backup-fuse OCPD	6 ₃ A
Short-circuit backup-fuse SCPD	100 A
Back-up fuse type	gG
I ² t strength	48 kA²s
Dynamic current strength I _p	6 kA
- 1	remote trip

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1 NC
left GUV V3, VDE o66o-514, finger and back-of-hand proof 2 (conductors of same type and cross-section) -wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² -wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² -wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² -wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 15 1 15 1 15 1 15 1 2.5 Nm 3 Nm screw-type terminal top, bottom (remote trip) GUV V3, VDE o66o-514, finger and back-of-hand proof 2 (conductors of same type and cross-section) 1-wire: 1 mm² 1.5 mm²; 2-wire: 1 mm² 1.5 mm² 1 mm² 1.5 mm² 1-wire: 1 mm² 1.5 mm²; 2-wire: 1 mm² 1.5 mm² 17 16 17 16
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1-wire: 1 mm ² 1.5 mm ² ; 2-wire: 1 mm ² 1.5 mm ² 17 16 17 16 17 16
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max. o.8 Nm
General data
optional
2000 M
min. 5000 cycles
min. 2000 cycles
normal environmental conditions
-40 °C 70 °C
-25 °C 40 °C
EC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)
20 q / 20 ms Duration
> 5 q (f ≤ 80 Hz, duration > 30 min.)
distribution board housing
Mounting rail (35 mm)
thermoplastic
IP20 (installed: IP40)
true
81 mm
85 mm
•
75 mm
69 mm
69 mm 4-5
69 mm

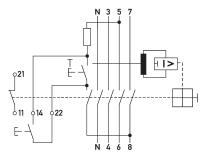
Dimensions



Dimensioned drawing residual current circuit-breaker DFS 4 063-4/0,50-A Hz60 V500 FT

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Wiring example



Wiring example residual current circuit-breaker DFS 4 063-4/0,50-A Hz60 V500 FT