

DATA SHEET

residual current circuit-breaker

DFS 4 080-4/0,03-AC V500

sensitive to residual currents Type AC, Rated voltage 290 V, 500 V

Article number 09154946





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 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. 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

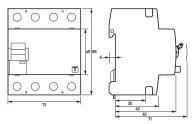
Technical Data

Technical Data	DFS 4 080-4/0,03-AC V500
Series	DFS 4 AC V
Number of poles	4
Residual current type	AC
Rated current (AC)	8o A
Rated residual current I∆n	o.o3 A
Short-time delayed	false
Selective	false
min. Operating voltage range of test circuit	300 V
max. Operating voltage range of test circuit	550 V
Maximum disconnection times	1 · IΔn: ≤ 300 ms; 5 · IΔn: ≤ 40 ms
	load circuit
Specification	load disconnect contact
min. Contact opening	4 mm
Rated voltage (AC)	290 V, 500 V
Rated current (AC)	8o A

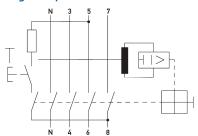
DFS 4 080-4/0,03-AC V500
10 kA
0.25 kA
800 A
400 V
4 kV
50 Hz
5 W
•
8o A
125 A
gG
screw-type terminal top and bottom (load circuit)
left
DGUV V3, VDE o660-514, finger and back-of-hand proof
2 (conductors of same type and cross-section)
••
1-wire: 1.5 mm ² 50 mm ² ; 2-wire: 1.5 mm ² 16 mm ²
1-wire: 1.5 mm ² 50 mm ² ; 2-wire: 1.5 mm ² 16 mm ²
1-wire: 1.5 mm ² 50 mm ² ; 2-wire: 1.5 mm ² 16 mm ²
15 1
15 1
15 1
15 1
2.5 Nm 3 Nm
General data
optional
2000 M
min. 5000 cycles
min. 2000 cycles
normal environmental conditions
-35 °C 75 °C
-25 °C 40 °C
according to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)
20 g / 20 ms Duration
> 5 g (f ≤ 8o Hz, duration > 30 min.)
distribution board housing
Mounting rail (35 mm)
thermoplastic
IP20 (installed: IP40)
true
72 mm
85 mm
85 mm 75 mm
75 mm
75 mm 69 mm

Technical Data	DFS 4 080-4/0,03-AC V500
Degree of pollution	2

Dimensions



Wiring example



Dimensional drawing Group view

Wiring diagram