

symbolic image

UK Technical Data 01

DAFDD 1 B or C curve **/0,03/2-A 230V 50Hz
AFDD + RCBO function 30 mA
sensitive to pulsating and alternating currents Type A



Function

2 pole Arc fault detection devices (AFDD) + residual current operated circuit-breakers with integral overcurrent protection (RCBO) for implementing the following protective measures, detection of Serial and Parallel arc faults and Automatic disconnection of the power supply as per BS 7671 - 421.1.7, 411 and 431.

Features

Sensitive to high-frequency arc faults, such as those that occur as a result of cabling defects.

AC residual currents and pulsating DC residual currents (type A).

Internal self test and monitoring functions, with LED indication of the arc fault detection status.

Mounting

Quick fastening to mounting rail, any installation position, supply from below

Applications

230V 50Hz circuits in residential and purpose-built buildings as well as industrial facilities with TN-S and TN-C-S networks. Not permitted for use in systems with TN-C networks or for circuits in which the power electronics equipment may cause smooth DC residual currents > 6 mA, or residual currents with frequencies not equal to 50 Hz.

Accessories

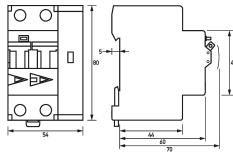
Wiring components DAFDD busbars, Auxiliary Switches DHi, Restart locking facilities RH-SS

Technical Data

Technical Data	DAFDD 1 B or C **/0,03/2-A
Series	DAFDD 1
Number of poles	2
Residual current type	A
Rated current (AC)	Refer to the individual product reference, data sheet available on request
Rated residual current I Δ n	0.03 A
Short-time delayed	false
Selective	false

Technical Data	DAFDD 1 B or C **/0,03/2-A
min. Operating voltage range of test circuit	196 V
max. Operating voltage range of test circuit	253 V
Tripping characteristic (MCB)	B or C
Operating voltage (AC)	240 V (170 V ... 264 V)
Operating frequency	50 Hz
Rated impulse withstand voltage	4 kV
	Load circuit
Specification	Load switch contact
Rated voltage (AC)	240 V
Rated current (AC)	Refer to the individual product reference, data sheet available on request
Rated short-circuit current	Ratings 10<25A = 10 kA, 32<40A = 6 kA
Surge current strength	0.25 kA
max. total rated switching capacity	Ratings 10<25A = 10 kA, 32<40A = 6 kA
Rated insulation voltage	250 V
Rated frequency	50 Hz
Current heat loss per current path	Refer to the individual product reference, data sheet available on request
short-circuit backup-fuse SCPD	100 A
Back-up fuse type	gG
Overvoltage class	III
	Screw-type terminal top, bottom (Load circuit)
Neutral conductor position	left, right
Protection against direct contact	DGUV V3, ÖVE-EN 6
max. Connection C1 cable length	70 m (between the distribution board and the outer socket)
Clamping area	1 mm ² ... 25 mm ²
Tightening torque	2 Nm ... 2.4 Nm
	General data
Mechanical endurance	min. 20000 switching cycles
Electrical endurance	min. 4000 switching cycles
Storage temperature	-35 °C ... 60 °C
Ambient temperature	-25 °C ... 40 °C
Climate resistance	According to IEC/EN 61009
Housing type	Distributor housing
Mounting type	Mounting rail (35 mm)
Housing material	Thermoplastic resin
Protection class	IP20 (installed: IP40)
Width	54 mm
Height	80 mm
Depth	76 mm
Installation depth	70 mm
Width (modules)	3
Design requirements/Standards	EN 62606, EN 61009
Certifications	VDE
Energy limiting class	3
Degree of pollution according to EN 60664	2

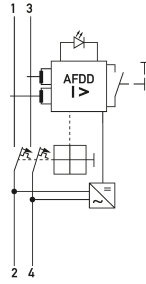
Dimensions



Dimensional drawing Group view

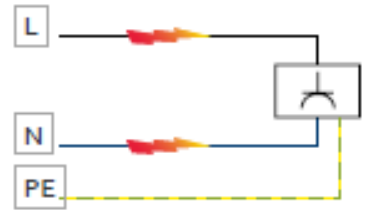
STEP file

Wiring example

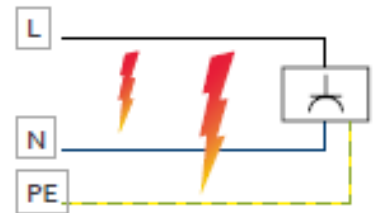


Wiring diagram

Types of arc fault ————— serial fault:



Types of arc fault ————— parallel fault:



Fault Code display



Fault code display (repeated three times)

- continuously lit green: normal operation
- 1 × yellow: serial fault
- 2 × yellow: dimmer fault
- 3 × yellow: parallel fault
- 4 × yellow: overvoltage (> 270 V)
- 5 x yellow: temperature (> 115 °C)
- 6 × yellow + continuous yellow/red: internal error