DATA SHEET

DFA 1

for RCCB DFS 2/4 up to 125 A, 24 V AC/DC, switch-on attempts: 1

Article number 09100101

Internetlink

Function

Automatic reclosing devices (ARDs) or remote actuators are generally used to increase system availability. Usually flange-mounted to the side of the corresponding circuit-breaker devices, they are able to reclose or open these devices remotely. Relays are usually used to determine the device status. According to the relevant device standard, ARDs must be capable of blocking if an installation fault is detected. In this case, remote switching is not possible and manual intervention is necessary. Series DFA devices are only designed for operation on Doepke residual current circuit-breakers DFS 2 or DFS 4. To optimise costs, the remote actuators are adjusted to the devices' rated currents up to 63 A or 125 A, respectively. Depending on the design, the DFA devices are operated with different supply voltages, are fitted with relays to report the switching or locked status and either do not carry out any switch-on attempts or perform one or three attempts. Furthermore, some DFA designs are able to connect an interface to the Dupline bus system, which can transmit control commands and status messages across long distances. The DFA devices are mounted to the RCCBs on the left.

Features

retro-fittable remote actuator for Doepke residual current circuit-breakers of series DFS 2 and DFS 4, variants for different power supplies, compact design

Mounting

mounting by clamping to the left of the residual current circuit-breaker, quick fastening to mounting rail, any installation position

Applications

Remote actuators can be used anywhere where electrical installation are difficult to access or where high system availability should be achieved, This might be on agricultural premises, in small wind power stations, photovoltaic installations, charging stations for electric vehicles, pump stations, sewage treatment plants and telecommunications systems.

Notes

According to the standard, automatic restart is only permitted in areas where only trained electricians have access. The remote actuator does not affect the function of the residual current circuit-breaker.

Accessories

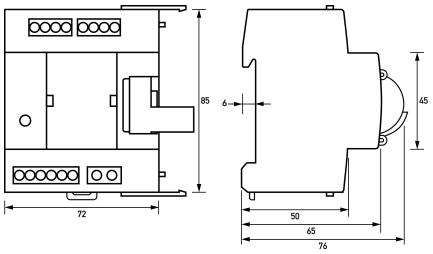
Couplers for external systems and voltages DFA-DI, Stabilized switching power supply NT, Doorbell transformers RK

Technical Data

Technical Data	DFA 1
Series	DFA 1
Test residual operating current adjustable	0.03 A, 0.1 A, 0.3 A, 0.5 A
Specification drive mechanism	Motor drive
max. Rated current main contact unit	125 A
Number of switch-on attempts	1
Remote release	true
Dupline bus connection retro-fittable	true
Mounting side	left

Technical Data	DFA 1
Number of (n.o, n.c.,change-over)	1|o|o
Operating voltage (AC)	24 V (21.6 V ... 30 V)
Operating voltage (DC)	24 V (21.6 V ... 26.4 V)
Current consumption (AC)	0.08 A ... 1 A
Current consumption (DC)	0.035 A ... 0.55 A
Operating frequency	50 Hz
	Display Output state
Type	LED (green)
	Control input
Rated voltage (DC)	24 V
Tolerance of rated voltage	-10 % ... 10 %
Rated current	1 mA
Bounce time of push buttons	10 ms
	Switching output
Specification	Relay
Rated voltage (AC)	24 V
Rated voltage (DC)	24 V
Rated current (AC)	1 A
Rated current (DC)	1 A
Rated power	max. 24 VA
	Mains relay output
Specification	Relay
Rated current (AC)	0.03 A ... 0.5 A
Rated frequency	50 Hz
max. Output O2 Switching time	400 ms
	Output for external operating display
Specification	Semiconductor
Tolerance of rated voltage	-10 % ... 10 %
rated current (DC)	0.05 A
	Screw-type terminal top and bottom (Control input, Switching output, Mains relay)
Clamping area	0.4 mm² ... 2.5 mm²
Tightening torque	max. 0.6 Nm
General data description	General data
Duty cycle	continuous operation
Recovery time	15 ms
Operating position	any
Ambient temperature	-25 °C ... 60 °C
Permissible humidity	max. 85 %
Housing type	Distributor housing
Mounting type	Mounting rail, Device extension
Housing material	Thermoplastic resin
Protection class	IP20
Width	72 mm
Height	85 mm
Depth	76 mm
Installation depth	70 mm
Width (modules)	4
Design requirements/Standards	EN 50557, EN 55014

Dimensions



Dimensional drawing Group view