DATA SHEET

automatic reclosing devices

DFA 2-3

for RCCB DFS 2/4 up to 125 A, 230 V AC, switch-on attempts: 1 or 3

Article number 09100114

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. 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. 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. The DFA devices are mounted to the RCCBs on the left. The number of restart attempts can be set to "1" or "3". The switch-on attempts in automatic mode are performed 15 seconds after a trip. This device can be decommissioned using a rotary switch on the housing cover so that no inadvertent remote operation, e.g. during maintenance work on the distribution board, is possible. This variant is supplied power from a voltage source of 230 V AC. Remote tripping through a residual current simulation is also possible. The current switch position of the protective switch ("switched on", "tripped" or "switched off") is indicated by three integrated relay switching contacts. A relay also signals the “locked” status.

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

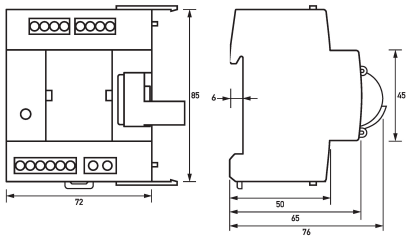
cables DFA 2-RC

Technical Data

Technical Data	DFA 2-3
Series	DFA 2 - 3
Specification drive mechanism	Motor drive
max. Rated current main contact unit	125 A
Number of automatic switch-on attempts	1, 3
Remote release	true
Remote disconnection	true
Remote connection	true
Mounting side	left

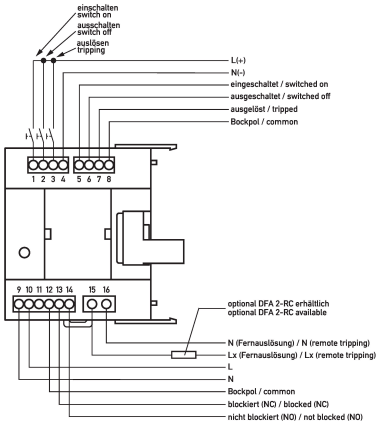
Technical Data	DFA 2-3
Number of (n.o, n.c.,change-over)	2|1|1
Operating voltage (AC)	230 V (195.5 V ... 264.5 V)
Current consumption (AC)	0.025 A ... 0.25 A
Operating frequency	50 Hz
	Display (status output)
Number	1
Type	LED (green)
	control input
Rated voltage (AC)	12 V ... 253 V
Rated voltage (DC)	20 V ... 253 V
Rated power	1.6 VA (1.4 VA ... 1.9 VA)
Bounce time of push buttons	10 ms
min. Pulse duration control input	60 ms
	switching output
Specification	relays
Rated voltage (AC)	253 V
Rated voltage (DC)	253 V
Rated power	max. 60 VA
	mains relay output
Specification	relays
Rated voltage (AC)	230 V ... 250 V
Rated current (AC)	0.5 A
Rated frequency	50 Hz
max. Switching time	400 ms
	screw-type terminal top and bottom (control input, switching output, mains relay)
Clamping area	0.4 mm² ... 2.5 mm²
Tightening torque	max. 0.64 Nm
	General data
Duty cycle	continuous operation
Recovery time	15 s
Operating position	optional
Ambient temperature	-25 °C ... 60 °C
Permissible humidity	max. 85 %
Housing type	distribution board housing
Installation type	Mounting rail (35 mm), Device extension
Housing material	thermoplastic
Protection class	IP20
Width	72 mm
Height	85 mm
Depth	76 mm
Installation depth	70 mm
Module widths	4
Weight	0.417 kg
Design requirements/Standards	EN 55014, EN 63024

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram