



DATA SHEET

automatic reclosing devices

DFA 2-2

for RCCB DFS 2/4 up to 63 A, 24 V AC/DC, switch-on attempts: 1 or 3
 Article number 09100113



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 either 24 V AC or DC. A relay signals the "locked" status. The current switch position is not indicated.

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

doorbell transformers RK

Technical Data

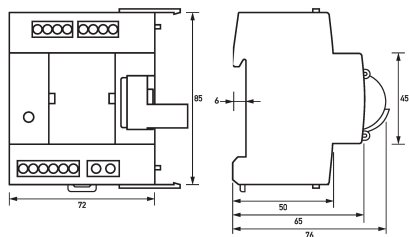
| Technical Data | DFA 2-2 |
|--|-------------|
| Series | DFA 2 - 2 |
| Specification drive mechanism | Motor drive |
| max. Rated current main contact unit | 63 A |
| Number of automatic switch-on attempts | 1, 3 |
| Remote release | false |
| Remote disconnection | true |
| Remote connection | true |
| Mounting side | left |

Subject to technical changes

| Technical Data | DFA 2-2 |
|---|---|
| Number of (n.o, n.c.,change-over) | 0 0 1 |
| Operating voltage (AC) | 24 V (21.6 V ... 30 V) |
| Operating voltage (DC) | 24 V (21.6 V ... 26.4 V) |
| Current consumption (AC) | 0.055 A ... 0.64 A |
| Current consumption (DC) | 0.024 A ... 0.5 A |
| Operating frequency | 50 Hz |
| Display (status output) | |
| Number | 1 |
| Type | LED (green) |
| control input | |
| Rated voltage (DC) | 24 V |
| Tolerance of rated voltage | -10 % ... 10 % |
| Rated current I _n | 1 mA |
| Rated power | 0.024 VA |
| Bounce time of push buttons | 10 ms |
| min. Pulse duration control input | 60 ms |
| switching output | |
| Specification | relays |
| 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 |
| screw-type terminal top and bottom (control input, switching output) | |
| Clamping area | 0.4 mm ² ... 2.5 mm ² |
| 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 | 0.354 kg |
| Design requirements/Standards | EN 55014, EN 63024 |

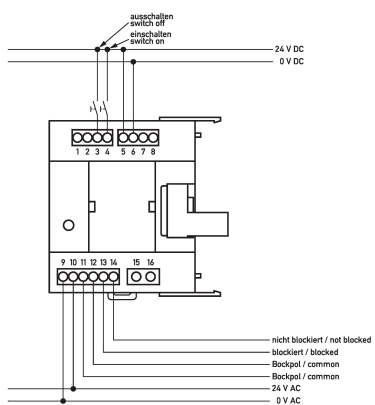
Subject to technical changes

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram