



DATA SHEET

Article number : 09100141

automatic reclosing devices

DFA 3 024DC-0

for RCCB DFS 2/4 up to 125 A, 24 V AC/DC



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. Devices from the DFA 3 series are extremely compact remote actuators for the DFS 2 and DFS 4 residual current circuit-breakers across the entire rated current range. They are available in the versions without and with three restart attempts. If the latter version recognises all attempts as unsuccessful, it blocks any further switching operations. All designs have the option of a manual switch-off and a semiconductor output, which signals the status of the flange-mounted RCCB.

Features

retro-fittable remote actuator for Doepke residual current circuit-breakers of series DFS 2 and DFS 4, extremely compact design, installation width of 1 MW, designs without and with three activation attempts available

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

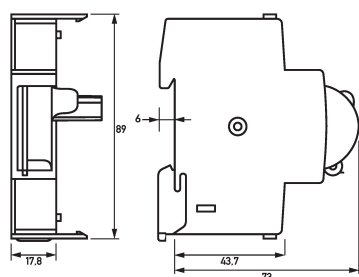
According to the standard, automatic restart is only permitted in areas where only trained electricians have access. The remote actuator does not affect the function of the residual current circuit-breaker.

Technical data

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| Series | DFA 3 |
| Specification drive mechanism | Motor drive |
| max. Rated current main contact unit | 125 A |
| Number of automatic switch-on attempts | 0 |
| Remote release | false |
| Remote disconnection | true |
| Remote connection | true |
| Mounting side | left |
| Operating voltage (DC) | 24 V (21.6 V ... 26.4 V) |
| Current consumption (DC) | 0.013 A ... 2 A |
| | Display (status output) |
| Number | 1 |
| Type | luminescent panel (multicoloured) |
| | control input |
| Rated voltage (DC) | 24 V (21.6 V ... 26.4 V) |
| Rated power | 0.002 VA |
| Bounce time of push buttons | 10 ms |
| min. Pulse duration control input | 60 ms |
| | switching output |
| Specification | semiconductor |
| Rated voltage (DC) | 24 V (21.6 V ... 26.4 V) |
| Rated current (DC) | 0.2 A |
| Rated power | max. 4.8 VA |
| | screw-type terminal top (control input, switching output) |

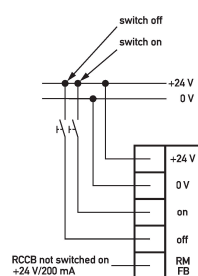
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|-------------------------------|---|
| Clamping area | 0.3 mm ² ... 1.5 mm ² |
| Tightening torque | max. 0.25 Nm |
| General data | |
| Duty cycle | continuous operation |
| Operating position | optional |
| Storage temperature | -40 °C ... 70 °C |
| Ambient temperature | -5 °C ... 60 °C |
| Housing type | distribution board housing |
| Installation type | Mounting rail (35 mm), Device extension |
| Housing material | polycarbonate (PC) |
| Protection class | IP20 |
| Width | 17.3 mm |
| Height | 85 mm |
| Depth | 73 mm |
| Installation depth | 67 mm |
| Module widths | 1 |
| Weight | 0.108 kg |
| Design requirements/Standards | EN 55014, EN 63024 |

Dimensions



Dimensioned drawing automatic reclosing devices DFA 3 024DC-o

Wiring example



Wiring example automatic reclosing devices DFA 3 024DC-o