



symbolic image

DATA SHEET
automatic reclosing devices
DFA 3 012DC-3
Article number 09100142



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

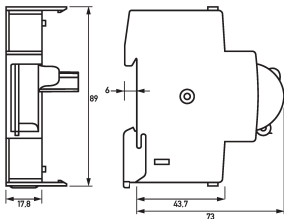
According to the standard, automatic restart is only permitted in areas where only trained electricians have access. The remote actuator does not affect the function of the residual current circuit-breaker.

Technical Data

Technical Data		DFA 3 012DC-3
Series		DFA 3
Specification drive mechanism		Motor drive
max. Rated current main contact unit		125 A
Number of automatic switch-on attempts		3
Remote release		false
Remote disconnection		true
Remote connection		true
Mounting side		left
Operating voltage (DC)		12 V (10.8 V ... 13.2 V)
Current consumption (DC)		0.05 A ... 1.9 A
		Display (status output)
Number		1
Type		luminescent panel (multicoloured)

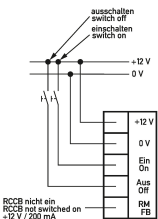
Technical Data	DFA 3 012DC-3
	control input
Rated voltage (DC)	12 V (10.8 V ... 13.2 V)
Rated power	0.002 VA
Bounce time of push buttons	10 ms
min. Pulse duration control input	60 ms
	switching output
Specification	semiconductor
Rated voltage (DC)	12 V (10.8 V ... 13.2 V)
Rated current (DC)	0.2 A
Rated power	max. 2.4 VA
	screw-type terminal top (control input, switching output)
Clamping area	0.3 mm² ... 1.5 mm²
Tightening torque	max. 0.25 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	polycarbonate (PC)
Protection class	IP20
Width	17.3 mm
Height	85 mm
Depth	73 mm
Installation depth	67 mm
Module widths	1
Weight	0.112 kg
Design requirements/Standards	EN 55014, EN 63024

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram