Siemens □□□ Series Service Manual

3RV6021-4CA15

1. Description

3RV6021-4AA15

2. Specifications

Specification	Value
product	brand name SIRIUS
Product	designation 3RV2 circuit breaker
Size	of the circuit-breaker S0
Number	of poles / for main current circuit 3
Product	function
removable	terminal for auxiliary and control circuit No
overload	protection Yes
phase	disturbance recognition Yes
short-circuit	to earth recognition No
Product	component
auxiliary	switch Yes
undervoltage	release mechanism No
trip	indicator No
Product	extension
auxiliary	switch Yes
optional	/ motor drive No
Impulse	voltage resistance / rated value kV 6
Protection	class IP / on the front IP20
Protection	against electrical shock finger-safe

3. Product Information

3RV6021-4AA15

CIRCUIT-BREAKER SZ S0,

A-RELEASE 11...16A, N-RELEASE 208A,

FOR MOTOR PROTECTION, CLASS 10,

SCREW CONNECTION,

STANDARD SW. CAPACITY,

W. TRANSVERSE AUX. SWITCH

General technical data:

product brand name SIRIUS

Product designation 3RV2 circuit breaker

Size of the circuit-breaker S0

Number of poles / for main current circuit 3

Product function

removable terminal for auxiliary and control circuit No

overload protection Yes

phase disturbance recognition Yes

short-circuit to earth recognition No

Product component

auxiliary switch Yes

undervoltage release mechanism No

trip indicator No

Product extension

auxiliary switch Yes

optional / motor drive No

Impulse voltage resistance / rated value kV 6

Protection class IP / on the front IP20

Protection against electrical shock finger-safe

Installation altitude / at a height over sea level / maximum m 2,000

Resistance against shock 25g / 11 ms

Ambient temperature

during transport °C -50 ... +80

during storage °C -50 ... +80

during operating °C -20 ... +60

Active power loss / total / typical W 8.3

Main circuit:

Operating voltage / rated value V 690

Service power / at AC-3 / at 400 V / rated value kW 7.5

Operating current / at AC-3 / at 400 V / rated value A 16

Mechanical operating cycles as operating time / of the main

contacts / typical

100,000

Frequency of operation / at AC-3 / according to IEC 60947-6-2 1/h 15

Auxiliary circuit:

Design of the auxiliary switch transverse

Number of changeover contacts / for auxiliary contacts 0

Operating current / of the auxiliary contacts / at AC-15 / at 24 V A 2

Operating current / of the auxiliary contacts

at AC-15 / at 230 V A 0.5

at DC-13

at 24 V A 1

at 60 V A 0.15

Protective and monitoring functions:

Trip class CLASS 10

Adjustable response current / of the current-dependent

overload release

A 11 ... 16

Breaking capacity limit short-circuit current (Icu)

at 400 V / rated value kA 55

at 500 V / rated value kA 10

at 690 V / rated value kA 4

Installation/ mounting/ dimensions:

Type of mounting screw and snap-on mounting onto 35 mm standard

mounting rail according to DIN EN 60715

mounting position any

Depth mm 91

Height mm 97

Width mm 45

Connections/ terminals:

Arrangement of electrical connectors / for main current circuit Top and bottom

Design of the electrical connection

for main current circuit screw-type terminals

for auxiliary and control current circuit screw-type terminals

Type of the connectable conductor cross-section

for main contacts

solid 2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²)

finely stranded

with conductor end processing 2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm²

for AWG conductors / for main contacts 2x (16 ... 12), 2x (14 ... 8)

for auxiliary contacts

solid 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

finely stranded / with conductor end processing 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

for AWG conductors / for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14)