



Circuit breaker size S00 for motor protection, CLASS 10 A-release
0.11...0.16 A N-release 2.1 A screw terminal Standard switching capacity
with transverse auxiliary switches 1 NO+1 NC

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2

General technical data

size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
• at AC in hot operating state	5.5 W
• at AC in hot operating state per pole	1.8 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms
mechanical service life (operating cycles)	
• of the main contacts typical	100 000
• of auxiliary contacts typical	100 000
electrical endurance (operating cycles) typical	100 000
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009

Ambient conditions

installation altitude at height above sea level maximum	2 000 m
ambient temperature	
• during operation	-20 ... +60 °C
• during storage	-50 ... +80 °C
• during transport	-50 ... +80 °C
relative humidity during operation	10 ... 95 %

Main circuit

number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	0.11 ... 0.16 A
operating voltage	
• rated value	20 ... 690 V
• at AC-3 rated value maximum	690 V
• at AC-3e rated value maximum	690 V
operating frequency rated value	50 ... 60 Hz
operational current rated value	0.16 A

operational current

- at AC-3 at 400 V rated value
- at AC-3e at 400 V rated value

0.16 A

0.16 A

operating power

- at AC-3
 - at 230 V rated value
 - at 400 V rated value
 - at 500 V rated value
 - at 690 V rated value

0 kW

0.04 kW

0.1 kW

0.1 kW

- at AC-3e
 - at 230 V rated value
 - at 400 V rated value
 - at 500 V rated value
 - at 690 V rated value

0 kW

0.04 kW

0.1 kW

0.1 kW

operating frequency

- at AC-3 maximum
- at AC-3e maximum

15 1/h

15 1/h

Auxiliary circuit**design of the auxiliary switch**

transverse

number of NC contacts for auxiliary contacts

1

number of NO contacts for auxiliary contacts

1

number of CO contacts for auxiliary contacts

0

operational current of auxiliary contacts at AC-15

- at 24 V
- at 120 V
- at 125 V
- at 230 V

2 A

0.5 A

0.5 A

0.5 A

operational current of auxiliary contacts at DC-13

- at 24 V
- at 60 V

1 A

0.15 A

Protective and monitoring functions**product function**

- ground fault detection
- phase failure detection

No

Yes

trip class

CLASS 10

design of the overload release

thermal

maximum short-circuit current breaking capacity (Icu)

- at AC at 240 V rated value
- at AC at 400 V rated value
- at AC at 500 V rated value
- at AC at 690 V rated value

100 kA

100 kA

100 kA

100 kA

operating short-circuit current breaking capacity (Ics) at AC

- at 240 V rated value
- at 400 V rated value
- at 500 V rated value
- at 690 V rated value

100 kA

100 kA

100 kA

100 kA

response value current of instantaneous short-circuit trip unit

2.1 A

UL/CSA ratings**full-load current (FLA) for 3-phase AC motor**

- at 480 V rated value
- at 600 V rated value

0.16 A

0.16 A

contact rating of auxiliary contacts according to UL

C300 / R300

Short-circuit protection**product function short circuit protection**

Yes

design of the short-circuit trip

magnetic

design of the fuse link

- for short-circuit protection of the auxiliary switch required

Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current I_k < 400 A)**Installation/ mounting/ dimensions****mounting position**

any

fastening method

screw and snap-on mounting onto 35 mm DIN rail according to DIN EN

height	60715
width	97 mm
depth	45 mm
required spacing	97 mm
<ul style="list-style-type: none"> • with side-by-side mounting at the side 	0 mm
<ul style="list-style-type: none"> • for grounded parts at 400 V <ul style="list-style-type: none"> — downwards 	30 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — upwards 	30 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — at the side 	9 mm
<ul style="list-style-type: none"> • for live parts at 400 V <ul style="list-style-type: none"> — downwards 	30 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — upwards 	30 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — at the side 	9 mm
<ul style="list-style-type: none"> • for grounded parts at 500 V <ul style="list-style-type: none"> — downwards 	30 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — upwards 	30 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — at the side 	9 mm
<ul style="list-style-type: none"> • for live parts at 500 V <ul style="list-style-type: none"> — downwards 	30 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — upwards 	30 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — at the side 	9 mm
<ul style="list-style-type: none"> • for grounded parts at 690 V <ul style="list-style-type: none"> — downwards 	50 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — upwards 	50 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — backwards 	0 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — at the side 	30 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — forwards 	0 mm
<ul style="list-style-type: none"> • for live parts at 690 V <ul style="list-style-type: none"> — downwards 	50 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — upwards 	50 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — backwards 	0 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — at the side 	30 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — forwards 	0 mm

Connections/ Terminals

type of electrical connection	screw-type terminals
<ul style="list-style-type: none"> • for main current circuit 	screw-type terminals
<ul style="list-style-type: none"> • for auxiliary and control circuit 	Top and bottom
arrangement of electrical connectors for main current circuit	
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — solid or stranded 	2x (0.75 ... 2.5 mm ²), 2x 4 mm ²
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — finely stranded with core end processing 	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
<ul style="list-style-type: none"> • at AWG cables for main contacts 	2x (18 ... 14), 2x 12
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — solid or stranded 	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — finely stranded with core end processing 	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
<ul style="list-style-type: none"> • at AWG cables for auxiliary contacts 	2x (20 ... 16), 2x (18 ... 14)
tightening torque	
<ul style="list-style-type: none"> • for main contacts with screw-type terminals 	0.8 ... 1.2 N·m
<ul style="list-style-type: none"> • for auxiliary contacts with screw-type terminals 	0.8 ... 1.2 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
<ul style="list-style-type: none"> • for main contacts 	M3
<ul style="list-style-type: none"> • of the auxiliary and control contacts 	M3

Safety related data

B10 value	
<ul style="list-style-type: none"> • with high demand rate according to SN 31920 	5 000
proportion of dangerous failures	
<ul style="list-style-type: none"> • with low demand rate according to SN 31920 	50 %
<ul style="list-style-type: none"> • with high demand rate according to SN 31920 	50 %

failure rate [FIT]

- with low demand rate according to SN 31920
- T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529
display version for switching status

50 FIT

10 a

IP20

finger-safe, for vertical contact from the front
Handle

Certificates/ approvals**General Product Approval**

For use in hazard-
ous locations


[Confirmation](#)

[KC](#)


For use in hazard-
ous locations

Declaration of Conformity**Test Certificates****Marine / Shipping**
[Special Test Certificate](#)
[Type Test Certificates/Test Report](#)
**Marine / Shipping**

other


[Confirmation](#)

other

Railway
[Confirmation](#)
[Vibration and Shock](#)
Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2011-0AA15>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0AA15>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0AA15>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0AA15&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0AA15/char>

Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0AA15&objecttype=14&gridview=view1>



