



Circuit breaker size S00 for motor protection, CLASS 10 A-release 12...16 A N-release 208 A Screw terminal Standard switching capacity Special version with limited ON period Use only on request

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV1
<b>General technical data</b>	
size of the circuit-breaker	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
• at AC in hot operating state	9.25 W
• at AC in hot operating state per pole	3.1 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
mechanical service life (operating cycles)	
• of the main contacts typical	100 000
• of auxiliary contacts typical	100 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	01/01/2013
<b>Ambient conditions</b>	
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 %
<b>Main circuit</b>	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	10 ... 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	16 A
operational current	
• at AC-3 at 400 V rated value	16 A
• at AC-3e at 400 V rated value	16 A
operating power	
• at AC-3	
— at 230 V rated value	3 kW

— at 400 V rated value	7.5 kW
— at 500 V rated value	5.5 kW
● at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	5.5 kW
<b>Auxiliary circuit</b>	
number of CO contacts for auxiliary contacts	0
<b>Protective and monitoring functions</b>	
<b>product function</b>	
● ground fault detection	No
● phase failure detection	Yes
<b>trip class</b>	CLASS 10
<b>design of the overload release</b>	thermal
<b>maximum short-circuit current breaking capacity (Icu)</b>	
● at AC at 240 V rated value	100 kA
● at AC at 400 V rated value	50 kA
● at AC at 500 V rated value	3 kA
● at AC at 690 V rated value	2 kA
<b>operating short-circuit current breaking capacity (Ics) at AC</b>	
● at 240 V rated value	100 kA
● at 400 V rated value	13 kA
● at 500 V rated value	3 kA
● at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	156 A
<b>UL/CSA ratings</b>	
<b>full-load current (FLA) for 3-phase AC motor</b>	
● at 480 V rated value	16 A
● at 600 V rated value	16 A
<b>Short-circuit protection</b>	
<b>product function short circuit protection</b>	Yes
<b>design of the short-circuit trip</b>	magnetic
<b>design of the fuse link for IT network for short-circuit protection of the main circuit</b>	
● at 240 V	gG 80 A
● at 400 V	gG 80 A
● at 500 V	gG 50 A
● at 690 V	gG 50 A
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	any
<b>fastening method</b>	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
<b>height</b>	90 mm
<b>width</b>	45 mm
<b>depth</b>	75 mm
<b>required spacing</b>	
● for grounded parts at 400 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
● for live parts at 400 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
● for grounded parts at 500 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
● for live parts at 500 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm

- for grounded parts at 690 V

- downwards
- upwards
- backwards
- at the side
- forwards

20 mm  
20 mm  
0 mm  
9 mm  
0 mm

- for live parts at 690 V

- downwards
- upwards
- backwards
- at the side
- forwards

20 mm  
20 mm  
0 mm  
9 mm  
0 mm

#### Connections/ Terminals

<b>type of electrical connection</b>	
• for main current circuit	screw-type terminals
<b>arrangement of electrical connectors for main current circuit</b>	Top and bottom
<b>type of connectable conductor cross-sections</b>	
• for main contacts	
— solid or stranded	2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> ), 2x (1 ... 4 mm <sup>2</sup> )
— finely stranded with core end processing	2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> )
<b>type of connectable conductor cross-sections</b>	
• for auxiliary contacts	
— solid or stranded	2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> )
<b>tightening torque</b>	
• for main contacts with screw-type terminals	0,8 ... 1,2 N·m
• for auxiliary contacts with screw-type terminals	0,8 ... 1,2 N·m
<b>design of screwdriver shaft</b>	Diameter 5 to 6 mm
<b>size of the screwdriver tip</b>	Pozidriv size 2
<b>design of the thread of the connection screw</b>	
• for main contacts	M3

#### Safety related data

<b>B10 value</b>	
• with high demand rate according to SN 31920	5 000
<b>proportion of dangerous failures</b>	
• with low demand rate according to SN 31920	50 %
• with high demand rate according to SN 31920	50 %
<b>failure rate [FIT]</b>	
• with low demand rate according to SN 31920	50 FIT
<b>protection class IP on the front according to IEC 60529</b>	IP20
<b>touch protection on the front according to IEC 60529</b>	finger-safe, for vertical contact from the front
<b>display version for switching status</b>	Rocker switch

#### Certificates/ approvals

General Product Approval	For use in hazardous locations	Declaration of Conformity
--------------------------	--------------------------------	---------------------------

[Confirmation](#)



#### Test Certificates

#### Marine / Shipping

[Special Test Certificate](#)



other

Railway



## 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=3RV1011-4AA10-0AA4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-4AA10-0AA4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-4AA10-0AA4>

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

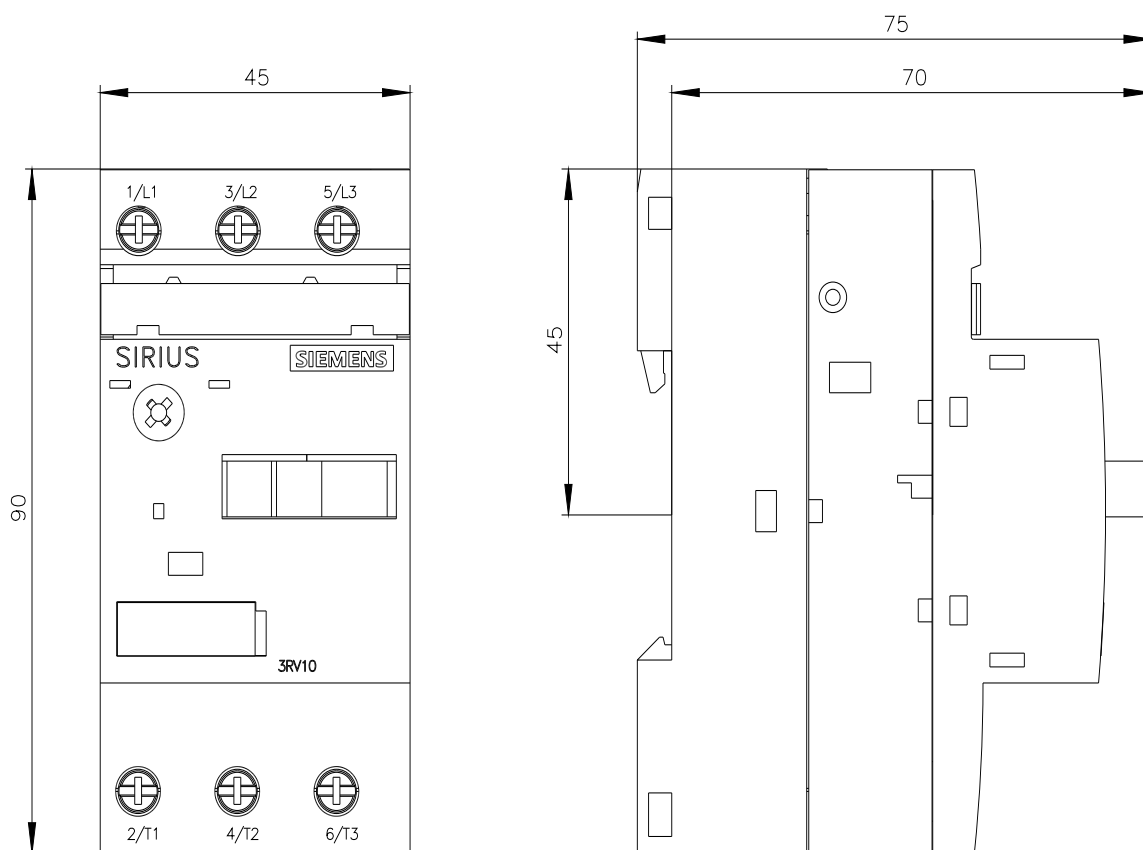
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV1011-4AA10-0AA4&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-4AA10-0AA4&lang=en)

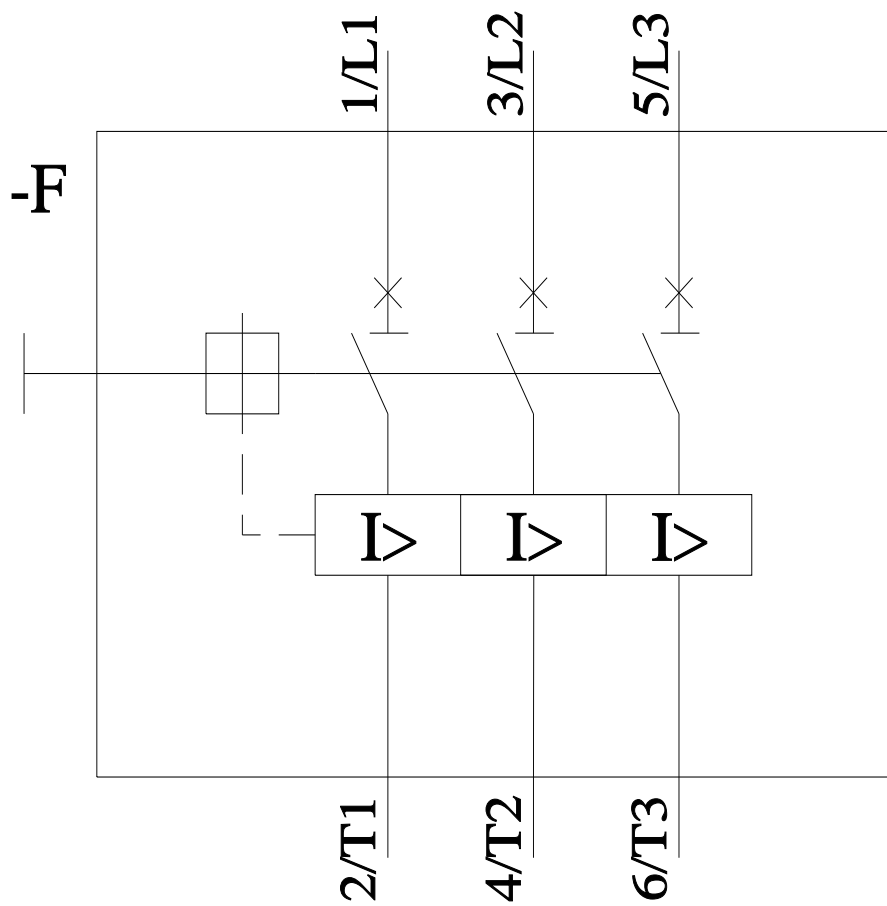
Characteristic: Tripping characteristics, I<sub>t</sub>, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-4AA10-0AA4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-4AA10-0AA4&objecttype=14&gridview=view1>





last modified:

11/21/2022

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

[3RV10114AA100AA4](#)