



Circuit breaker size S00 for motor protection, CLASS 10 A-release 1.8...2.5 A N-release 33 A Screw terminal Standard switching capacity with transverse auxiliary switch 1 NO+1 NC

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV1
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
• at AC in hot operating state	7.25 W
• at AC in hot operating state per pole	2.4 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
electrical endurance (operating cycles) typical	100 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	01/01/2013
SVHC substance name	Lead - 7439-92-1
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	1.8 ... 2.5 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	2.5 A
operational current	
• at AC-3 at 400 V rated value	2.5 A
• at AC-3e at 400 V rated value	2.5 A

operating power	
<ul style="list-style-type: none"> ● at AC-3 <ul style="list-style-type: none"> — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value ● at AC-3e <ul style="list-style-type: none"> — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value 	<ul style="list-style-type: none"> 0.4 kW 0.75 kW 1.1 kW 1.5 kW 0.4 kW 0.75 kW 1.1 kW 1.5 kW
operating frequency	
<ul style="list-style-type: none"> ● at AC-3 maximum ● at AC-3e maximum 	<ul style="list-style-type: none"> 15 1/h 15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
<ul style="list-style-type: none"> ● note 	1
number of NO contacts for auxiliary contacts	1
<ul style="list-style-type: none"> ● note 	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
<ul style="list-style-type: none"> ● at 24 V ● at 110 V ● at 120 V ● at 125 V ● at 230 V 	<ul style="list-style-type: none"> 2 A 2 A 2 A 2 A 0.5 A
operational current of auxiliary contacts at DC-13	
<ul style="list-style-type: none"> ● at 24 V ● at 60 V 	<ul style="list-style-type: none"> 1 A 0.15 A
Protective and monitoring functions	
product function	
<ul style="list-style-type: none"> ● ground fault detection ● phase failure detection 	<ul style="list-style-type: none"> No Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (I_{cu})	
<ul style="list-style-type: none"> ● 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 	<ul style="list-style-type: none"> 100 kA 100 kA 10 kA 2 kA
operating short-circuit current breaking capacity (I_{cs}) at AC	
<ul style="list-style-type: none"> ● at 240 V rated value ● at 400 V rated value ● at 500 V rated value ● at 690 V rated value 	<ul style="list-style-type: none"> 100 kA 100 kA 100 kA 2 kA
response value current of instantaneous short-circuit trip unit	33 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul style="list-style-type: none"> ● at 480 V rated value ● at 600 V rated value 	<ul style="list-style-type: none"> 2.5 A 2.5 A
yielded mechanical performance [hp]	
<ul style="list-style-type: none"> ● for single-phase AC motor <ul style="list-style-type: none"> — at 230 V rated value ● for 3-phase AC motor <ul style="list-style-type: none"> — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value 	<ul style="list-style-type: none"> 0.17 hp 0.5 hp 0.5 hp 1 hp 1.5 hp
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	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current $I_k < 400$ A)
<ul style="list-style-type: none"> for short-circuit protection of the auxiliary switch required 	
design of the fuse link for IT network for short-circuit protection of the main circuit	none required gL/gG 35 A gL/gG 25 A gL/gG 25 A
<ul style="list-style-type: none"> at 240 V 	
<ul style="list-style-type: none"> at 400 V 	
<ul style="list-style-type: none"> at 500 V at 690 V 	
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	90 mm
width	45 mm
depth	75 mm
required spacing	<ul style="list-style-type: none"> for grounded parts at 400 V <ul style="list-style-type: none"> downwards 20 mm upwards 20 mm at the side 9 mm for live parts at 400 V <ul style="list-style-type: none"> downwards 20 mm upwards 20 mm at the side 9 mm for grounded parts at 500 V <ul style="list-style-type: none"> downwards 20 mm upwards 20 mm at the side 9 mm for live parts at 500 V <ul style="list-style-type: none"> downwards 20 mm upwards 20 mm at the side 9 mm for grounded parts at 690 V <ul style="list-style-type: none"> downwards 20 mm upwards 20 mm backwards 0 mm at the side 9 mm forwards 0 mm for live parts at 690 V <ul style="list-style-type: none"> downwards 20 mm upwards 20 mm backwards 0 mm at the side 9 mm forwards 0 mm
<ul style="list-style-type: none"> for grounded parts at 400 V <ul style="list-style-type: none"> downwards 	
<ul style="list-style-type: none"> for grounded parts at 400 V <ul style="list-style-type: none"> upwards 	
<ul style="list-style-type: none"> for grounded parts at 400 V <ul style="list-style-type: none"> at the side 	
<ul style="list-style-type: none"> for live parts at 400 V <ul style="list-style-type: none"> downwards 	
<ul style="list-style-type: none"> for live parts at 400 V <ul style="list-style-type: none"> upwards 	
<ul style="list-style-type: none"> for live parts at 400 V <ul style="list-style-type: none"> at the side 	
<ul style="list-style-type: none"> for grounded parts at 500 V <ul style="list-style-type: none"> downwards 	
<ul style="list-style-type: none"> for grounded parts at 500 V <ul style="list-style-type: none"> upwards 	
<ul style="list-style-type: none"> for grounded parts at 500 V <ul style="list-style-type: none"> at the side 	
<ul style="list-style-type: none"> for live parts at 500 V <ul style="list-style-type: none"> downwards 	
<ul style="list-style-type: none"> for live parts at 500 V <ul style="list-style-type: none"> upwards 	
<ul style="list-style-type: none"> for live parts at 500 V <ul style="list-style-type: none"> at the side 	
<ul style="list-style-type: none"> for grounded parts at 690 V <ul style="list-style-type: none"> downwards 	
<ul style="list-style-type: none"> for grounded parts at 690 V <ul style="list-style-type: none"> upwards 	
<ul style="list-style-type: none"> for grounded parts at 690 V <ul style="list-style-type: none"> backwards 	
<ul style="list-style-type: none"> for grounded parts at 690 V <ul style="list-style-type: none"> at the side 	
<ul style="list-style-type: none"> for grounded parts at 690 V <ul style="list-style-type: none"> forwards 	
<ul style="list-style-type: none"> for live parts at 690 V <ul style="list-style-type: none"> downwards 	
<ul style="list-style-type: none"> for live parts at 690 V <ul style="list-style-type: none"> upwards 	
<ul style="list-style-type: none"> for live parts at 690 V <ul style="list-style-type: none"> backwards 	
<ul style="list-style-type: none"> for live parts at 690 V <ul style="list-style-type: none"> at the side 	
<ul style="list-style-type: none"> for live parts at 690 V <ul style="list-style-type: none"> forwards 	
Connections/ Terminals	
type of electrical connection	screw-type terminals
<ul style="list-style-type: none"> for main current circuit 	
<ul style="list-style-type: none"> for auxiliary and control circuit 	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²), 2x (1 ... 4 mm ²) 2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²)
<ul style="list-style-type: none"> for main contacts <ul style="list-style-type: none"> solid or stranded finely stranded with core end processing 	
type of connectable conductor cross-sections	2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²)
<ul style="list-style-type: none"> for auxiliary contacts <ul style="list-style-type: none"> solid or stranded 	
tightening torque	0,8 ... 1,2 N·m
<ul style="list-style-type: none"> for main contacts with screw-type terminals 	

<ul style="list-style-type: none"> for auxiliary contacts with screw-type terminals 	0.8 ... 1.2 N·m
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

product function suitable for safety function	Yes
suitability for use	
<ul style="list-style-type: none"> safety-related switching on 	No
<ul style="list-style-type: none"> safety-related switching OFF 	Yes
service life maximum	10 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
<ul style="list-style-type: none"> with low demand rate according to SN 31920 	40 %
<ul style="list-style-type: none"> with high demand rate according to SN 31920 	50 %
B10 value with high demand rate according to SN 31920	5 000
failure rate [FIT] with low demand rate according to SN 31920	50 FIT

ISO 13849

device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes

IEC 61508

safety device type according to IEC 61508-2	Type A
--	--------

Electrical Safety

protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front

Display

display version for switching status	Rocker switch
--------------------------------------	---------------

Approvals Certificates

General Product Approval



EG-Konf.

[Confirmation](#)



CCC



UL

[KC](#)

General Product Approval	For use in hazardous locations	Test Certificates	Marine / Shipping
--------------------------	--------------------------------	-------------------	-------------------



ATEX



IECEX

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



ABS

Marine / Shipping



DNV



LRS



PRS



RINA



RMRS

other	Railway	Environment
-------	---------	-------------

[Miscellaneous](#)

[Confirmation](#)



VDE

[Special Test Certificate](#)

[Environmental Confirmations](#)

Further information

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=3RV1011-1CA15>

Cax online generator

<http://support.automation.siemens.com/WWW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-1CA15>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1CA15>

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

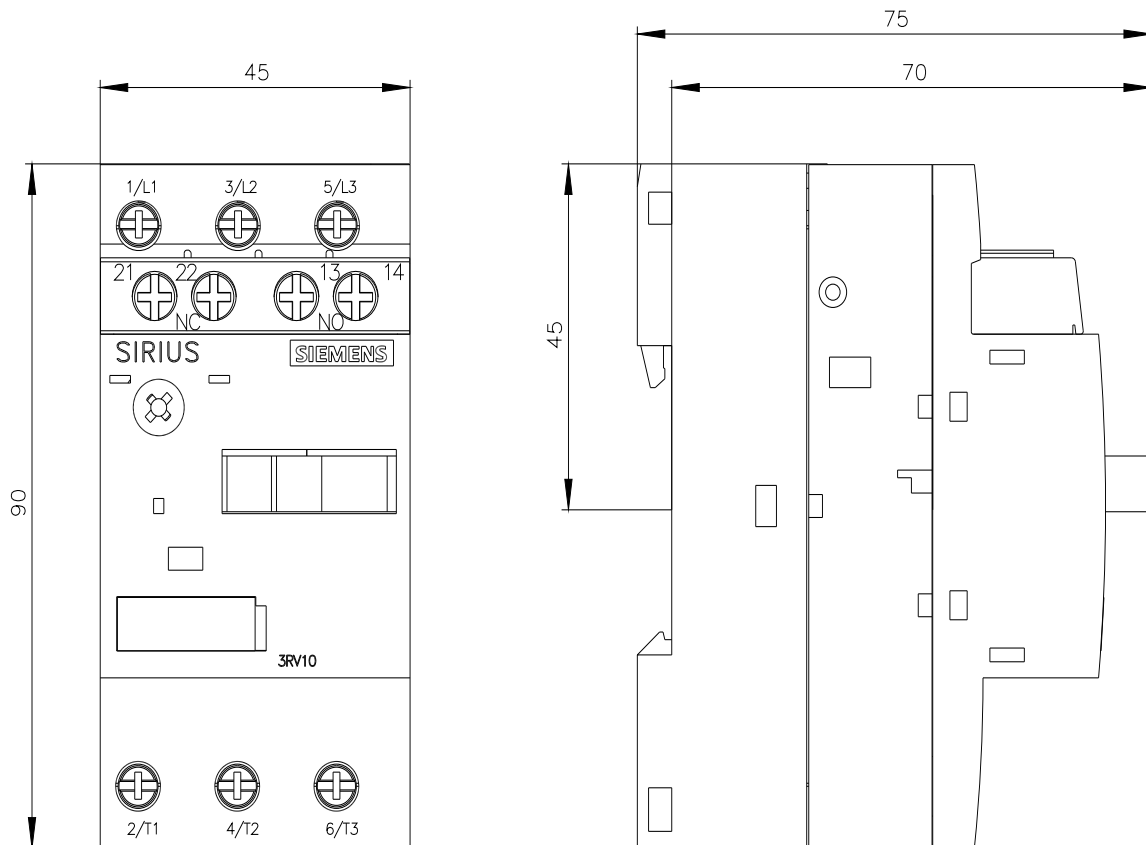
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-1CA15&lang=en

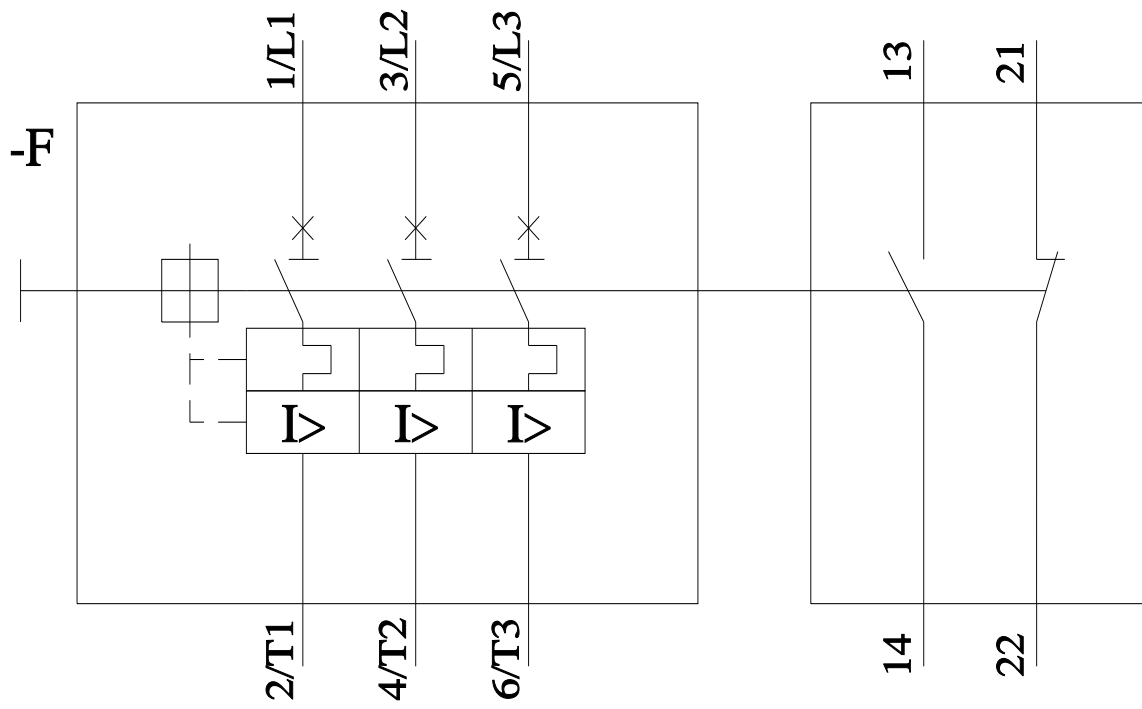
Characteristic: Tripping characteristics, I_t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1CA15/char>


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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-1CA15&objecttype=14&gridview=view1>





last modified:

4/12/2024 

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Circuit Breakers](#) category:

Click to view products by [Siemens](#) manufacturer:

Other Similar products are found below :

[LUGZX66-1-61-20.0-44](#) [M39019/01-201](#) [M39019/01-221](#) [M39019/04-249S](#) [M39019/04-313S](#) [M55629/1-016](#) [M55629/1-018](#) [M55629/1-021](#)
[M55629/1-033](#) [M55629/1-046](#) [M55629/1-048](#) [M55629/1-058](#) [M55629/1-067](#) [M55629/1-070](#) [M55629/1-079](#) [M55629/1-084](#) [M55629/1-085](#)
[M55629/1-109](#) [M55629/11-102](#) [M55629/12-045](#) [M55629/12-046](#) [M55629/1-330](#) [M55629/1-366](#) [M55629/1-387](#) [M55629/1-401](#) [M55629/2-](#)
[022](#) [M55629/2-030](#) [M55629/2-072](#) [M55629/2-082](#) [M55629/2-099](#) [M55629/2-101](#) [M55629/2-102](#) [M55629/21-BM-BM](#) [M55629/21-HM-HM](#)
[M55629/21-NS-NS](#) [M55629/22-NR-NR-NR](#) [M55629/22-RS-RS-RS](#) [M55629/2-347](#) [M55629/2-401](#) [M55629/2-413](#) [M55629/3-030](#)
[M55629/3-050](#) [M55629/3-102](#) [M55629/3-103](#) [M55629/3-128](#) [M55629/3-130](#) [M55629/3-238](#) [M55629/3-386](#) [M55629/3-LBZB](#) [M55629/4-](#)
[115](#)