## **SIEMENS**

Data sheet 3RV1011-0FA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.35...0.5 A N-release 6.5 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		
<ul> <li>at AC in hot operating state</li> </ul>	5.5 W	
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.8 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)		
<ul> <li>of the main contacts typical</li> </ul>	100 000	
<ul> <li>of auxiliary contacts typical</li> </ul>	100 000	
electrical endurance (operating cycles) typical	100 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	01/01/2013	
Ambient conditions		
Ambient Conditions		
installation altitude at height above sea level maximum	2 000 m	
	2 000 m	
installation altitude at height above sea level maximum	2 000 m -20 +60 °C	
installation altitude at height above sea level maximum ambient temperature		
installation altitude at height above sea level maximum  ambient temperature  • during operation	-20 +60 °C	
installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage	-20 +60 °C -50 +80 °C	
installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport	-20 +60 °C -50 +80 °C -50 +80 °C	
installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport  relative humidity during operation	-20 +60 °C -50 +80 °C -50 +80 °C	
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation  Main circuit	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 %	
installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 %	
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport relative humidity during operation  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 %	
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 0.35 0.5 A	
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage • rated value	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 0.35 0.5 A	
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage • rated value • at AC-3 rated value maximum	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 0.35 0.5 A	
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 0.35 0.5 A 20 690 V 690 V	
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage  • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum  operating frequency rated value	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 0.35 0.5 A 20 690 V 690 V 690 V 50 60 Hz	
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport relative humidity during operation  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 0.35 0.5 A 20 690 V 690 V 690 V 50 60 Hz	
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum  operating frequency rated value  operational current rated value  operational current	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 0.35 0.5 A 20 690 V 690 V 690 V 50 60 Hz 0.5 A	

• at AC-3	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.12 kW
— at 500 V rated value	0.2 kW
— at 690 V rated value	0.3 kW
• at AC-3e	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.12 kW
— at 500 V rated value	0.2 kW
— at 690 V rated value	0.3 kW
operating frequency	
• at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
• note	1
number of NO contacts for auxiliary contacts	1
• note	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
at 24 V	2 A
• at 24 V	2 A
******	2 A
• at 125 V	
• at 125 V	2 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1A
• at 60 V	0.15 A
Protective and monitoring functions	
product function	
<ul> <li>ground fault detection</li> </ul>	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	
<ul> <li>at AC at 240 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 400 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 500 V rated value</li> </ul>	100 kA
at AC at 690 V rated value	100 kA
operating short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value	100 kA
• at 400 V rated value	100 kA
at 500 V rated value	100 kA
• at 690 V rated value	100 kA
at 690 V rated value  response value current of instantaneous short-circuit trip unit	100 kA 6.5 A
response value current of instantaneous short-circuit trip unit UL/CSA ratings	
response value current of instantaneous short-circuit trip unit	
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor	6.5 A
response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value	0.5 A 0.5 A
response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  contact rating of auxiliary contacts according to UL	0.5 A
response value current of instantaneous short-circuit trip unit UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection	0.5 A 0.5 A 0.5 A C300 / R300
response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit protection	6.5 A  0.5 A  0.5 A  C300 / R300  Yes
response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit protection  design of the short-circuit trip	0.5 A 0.5 A 0.5 A C300 / R300
response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  design of the fuse link	0.5 A 0.5 A 0.5 A C300 / R300 Yes magnetic
response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit protection  design of the short-circuit trip	6.5 A  0.5 A  0.5 A  C300 / R300  Yes
response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  design of the fuse link  • for short-circuit protection of the auxiliary switch required  design of the fuse link for IT network for short-circuit	0.5 A 0.5 A 0.5 A C300 / R300 Yes magnetic
response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  design of the fuse link  • 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	0.5 A 0.5 A C300 / R300  Yes magnetic  fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  design of the fuse link  • 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  • at 240 V	0.5 A 0.5 A C300 / R300  Yes magnetic  fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)  none required

• at 690 V	gL/gG 4 A
nstallation/ 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> <li>for grounded parts at 400 V</li> </ul>	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
<ul> <li>for live parts at 400 V</li> </ul>	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	
— 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
<ul> <li>for grounded parts at 690 V</li> </ul>	
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 mm
— forwards	0 mm
<ul> <li>for live parts at 690 V</li> </ul>	
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 mm
— forwards	0 mm
connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
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	
• for main contacts	
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
tightening torque	00 4011
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
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	No
• for main contacts	M3
of the auxiliary and control contacts	M3
afety related data	
B10 value	
with high demand rate according to SN 31920	5 000
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 %

<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %
failure rate [FIT]	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 FIT
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 version for switching status	Rocker switch
0-46-4-1	

Certificates/ approvals

**General Product Approval** 

For use in hazardous locations



Confirmation









**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report Special Test Certificate





Marine / Shipping



LRS









Confirmation

other

other

Railway

Miscellaneous



Special Test Certificate

## 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=3RV1011-0FA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-0FA15

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

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0FA15}$ 

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

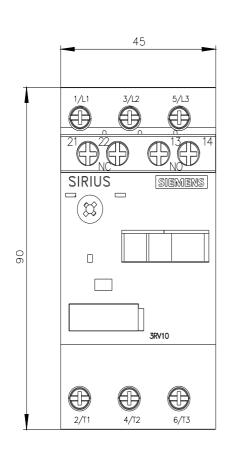
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV1011-0FA15\&lang=en}$ 

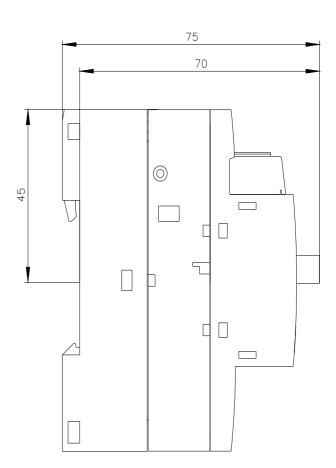
Characteristic: Tripping characteristics, I2t, Let-through current

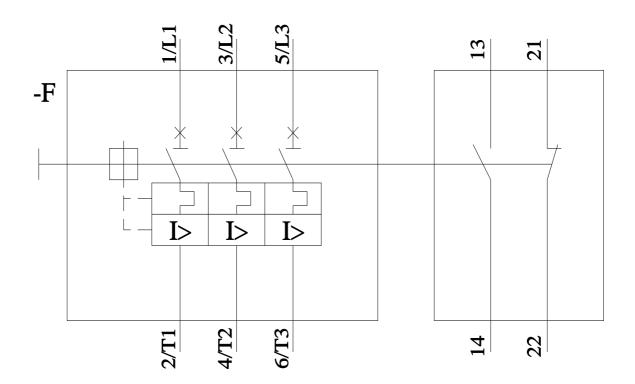
https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0FA15/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-0FA15&objecttype=14&gridview=view1







last modified: 11/21/2022 🖸

