## SIEMENS

## Data sheet

## 3RV2011-0GA25



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.45...0.63 A N-release 8.2 A Spring-type 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		
<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	
maximum permissible voltage for safe isolation in networks with grounded star point		
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V	
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V	
shock resistance acc. to IEC 60068-2-27	25g / 11 ms	
mechanical service life (switching cycles)		
<ul> <li>of the main contacts typical</li> </ul>	100 000	
<ul> <li>of auxiliary contacts typical</li> </ul>	100 000	
electrical endurance (switching 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 acc. to IEC 81346-2	Q	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
<ul> <li>ambient temperature during operation</li> </ul>	-20 +60 °C	
<ul> <li>ambient temperature during storage</li> </ul>	-50 +80 °C	
<ul> <li>ambient temperature during transport</li> </ul>	-50 +80 °C	
temperature compensation	-20 +60 °C	
relative humidity during operation	10 95 %	
Main circuit		
number of poles for main current circuit	3	
adjustable current response value current of the	0.45 0.63 A	



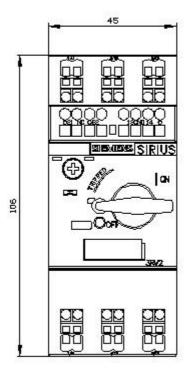
current-dependent overload release	
<ul> <li>operating voltage rated value</li> </ul>	690 V
<ul> <li>operating voltage at AC-3 rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	0.63 A
operational current at AC-3 at 400 V rated value	0.63 A
operating power at AC-3	
<ul> <li>at 230 V rated value</li> </ul>	90 W
<ul> <li>at 400 V rated value</li> </ul>	180 W
at 500 V rated value	180 W
at 690 V rated value	250 W
operating frequency at AC-3 maximum	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	2 A
• at 120 V	0.5 A
• at 125 V	0.5 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• 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
breaking capacity operating short-circuit current (Ics) at AC	
at 240 V rated value	100 kA
• at 400 V rated value	100 kA
<ul> <li>at 500 V rated value</li> </ul>	100 kA
at 690 V rated value	100 kA
breaking capacity maximum short-circuit current (Icu)	
at AC at 240 V rated value	100 kA
<ul> <li>at AC at 400 V rated value</li> </ul>	
• al AC al 400 v Taleu value	100 kA
at AC at 500 V rated value	100 kA 100 kA
at AC at 500 V rated value	100 kA
at AC at 500 V rated value     at AC at 690 V rated value     response value current of instantaneous short-circuit trip     unit	100 kA 100 kA
at AC at 500 V rated value     at AC at 690 V rated value     response value current of instantaneous short-circuit trip     unit UL/CSA ratings	100 kA 100 kA
at AC at 500 V rated value     at AC at 690 V rated value     response value current of instantaneous short-circuit trip     unit     UL/CSA ratings     full-load current (FLA) for 3-phase AC motor	100 kA 100 kA 8.2 A
at AC at 500 V rated value     at AC at 690 V rated value     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	100 kA 100 kA 8.2 A 0.63 A
<ul> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>response value current of instantaneous short-circuit trip unit</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor         <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> </ul> </li> </ul>	100 kA 100 kA 8.2 A 0.63 A 0.63 A
<ul> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>et AC at 690 V rated value</li> <li>response value current of instantaneous short-circuit trip unit</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor         <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>contact rating of auxiliary contacts according to UL</li> </ul> </li> </ul>	100 kA 100 kA 8.2 A 0.63 A
at AC at 500 V rated value     at AC at 690 V rated value     at AC at 690 V rated value     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	100 kA 100 kA 8.2 A 0.63 A 0.63 A
<ul> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>response value current of instantaneous short-circuit trip unit</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor         <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection</li> </ul> </li> </ul>	100 kA 100 kA 8.2 A 0.63 A 0.63 A C300 / R300 Yes
<ul> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>response value current of instantaneous short-circuit trip unit</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor         <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>contact rating of auxiliary contacts according to UL</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> </ul> </li> </ul>	100 kA 100 kA 8.2 A 0.63 A 0.63 A C300 / R300
<ul> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>at AC at 690 V rated value</li> <li>response value current of instantaneous short-circuit trip unit</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor         <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>box at 600 V rated value</li> </ul> </li> <li>contact rating of auxiliary contacts according to UL</li> <li>Short-circuit protection         <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> <li>design of the fuse link</li> </ul> </li> </ul>	100 kA 100 kA 8.2 A 0.63 A 0.63 A C300 / R300 Yes magnetic
<ul> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>at AC at 690 V rated value</li> <li>response value current of instantaneous short-circuit trip unit</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>contact rating of auxiliary contacts according to UL</li> <li>Short-circuit protection <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> <li>design of the fuse link</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul> </li> </ul>	100 kA 100 kA 8.2 A 0.63 A 0.63 A C300 / R300 Yes
<ul> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>response value current of instantaneous short-circuit trip unit</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>contact rating of auxiliary contacts according to UL</li> <li>Short-circuit protection <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> <li>design of the fuse link <ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul> </li> </ul></li></ul>	100 kA 100 kA 8.2 A 0.63 A 0.63 A C300 / R300 Yes magnetic Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current
<ul> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>at AC at 690 V rated value</li> <li>response value current of instantaneous short-circuit trip unit</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>contact rating of auxiliary contacts according to UL</li> <li>Short-circuit protection <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> <li>design of the fuse link</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul> </li> </ul>	100 kA 100 kA 8.2 A 0.63 A 0.63 A C300 / R300 Yes magnetic Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current

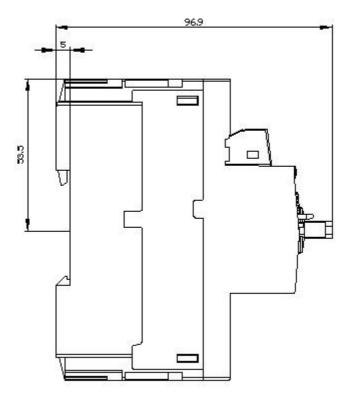
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
	according to DIN EN 60715
height	106 mm
width	45 mm
depth	97 mm
required spacing	
<ul> <li>for grounded parts at 400 V</li> </ul>	
- downwards	30 mm
	30 mm
— upwards	
— at the side	9 mm
• for live parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for live parts at 500 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
	3 11 11
for grounded parts at 690 V	50
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
<ul> <li>for live parts at 690 V</li> </ul>	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
onnections/ Terminals	
	No
product function removable terminal for auxiliary and control circuit	NO
type of electrical connection	
for main current circuit	spring-loaded terminals
for auxiliary and control circuit	spring-loaded terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	$2 \times (0.5 - 4 \text{ mm}^2)$
— solid or stranded	$2x (0.5 \dots 4 \text{ mm}^2)$
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm <sup>2</sup> )
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)
<ul> <li>at AWG cables for main contacts</li> </ul>	2x (20 12)
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid or stranded	2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)
- finely stranded without core end processing	2x (0.5 1.5 mm²)
at AWG cables for auxiliary contacts	2x (20 14)
design of screwdriver shaft	Diameter 3 mm
size of the screwdriver tip	3,0 x 0,5 mm
	-,,•

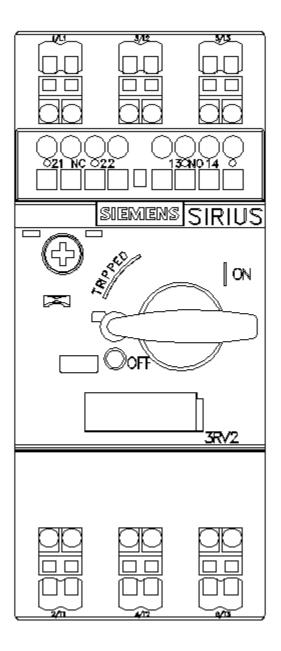


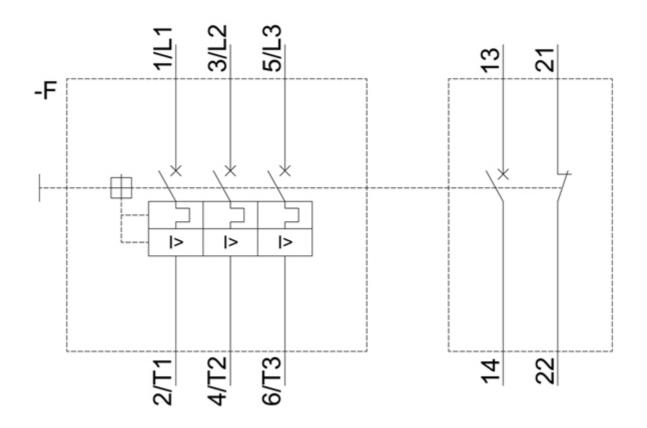
B10 value						
	and rate acc. to SN 319	20 5 0	000			
	proportion of dangerous failures					
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>			50 %			
with high demand rate acc. to SN 31920			50 %			
failure rate [FIT]						
	nd rate acc. to SN 3192		50 FIT			
T1 value for proof test interval or service life acc. to IEC 61508			10 у			
protection class IP on the front acc. to IEC 60529			IP20			
touch protection on	the front acc. to IEC	60529 fin	ger-safe, for vertical contac	t from the front		
display version for sw	vitching status	Ha	Handle			
Certificates/ approval	ls					
General Product A	oproval				For use in hazardous locations	
			KC	EHC	K ATEX	
For use in hazardous locations	Declaration of Con	formity	Test Certificates		Marine / Shipping	
IECEx	CE EG-Konf.	<u>Miscellaneous</u>	<u>Special Test</u> <u>Certificate</u>	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	ABS	
Marine / Shipping						
B U REAU VERITAS	Lloyds Register us	PRS	RINA	RMRS	DNV-GL	
other		Pailway				
ottier		Railway				
<u>Confirmation</u>	UDE VDE	<u>Confirmation</u>	<u>Vibration and Shock</u>			
Further information						
Information- and Do https://www.siemens Industry Mall (Onlin			b=3RV2011-0GA25			
Cax online generator						
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0GA25 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0GA25 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0GA25⟨=en Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0GA25/char						
	<u>, , , , , , , , , , , , , , , , , , , </u>	<u></u>	<u></u>			











last modified:

12/15/2020 🖸