## SIEMENS

## Data sheet

## 3RV2011-1AA25



Circuit breaker size S00 for motor protection, CLASS 10 A-release 1.1...1.6 A N-release 21 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>	7.25 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.4 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)	
<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
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	1.1 1.6 A
operating voltage	
rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	1.6 A
operational current	

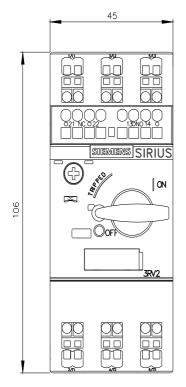
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	1.6 A
<ul> <li>at AC-3e at 400 V rated value</li> </ul>	1.6 A
operating power	
• at AC-3	
— at 230 V rated value	0.3 kW
— at 400 V rated value	0.55 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
• at AC-3e	1.1 KVV
- at 230 V rated value	0.3 kW
— at 400 V rated value	0.55 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 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
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
	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
maximum short-circuit current breaking capacity (Icu)	
<ul> <li>at AC at 240 V rated value</li> </ul>	100 kA
	100 KA
• at AC at 240 V rated value	100 KA
• at AC at 400 V rated value	100 kA
<ul><li> at AC at 400 V rated value</li><li> at AC at 500 V rated value</li></ul>	100 kA 100 kA
<ul> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> </ul>	100 kA 100 kA
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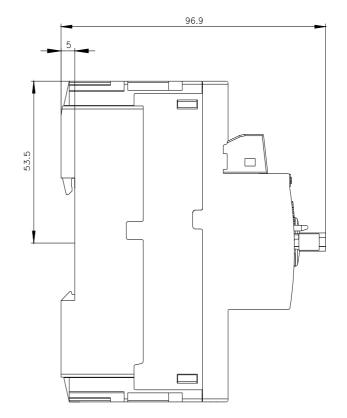
design of the fuse link	
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
design of the fuse link for IT network for short-circuit protection of the main circuit	
● at 500 V	gL/gG 20 A
• at 690 V	gL/gG 16 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	106 mm
width	45 mm
depth	97 mm
required spacing	
with side-by-side mounting at the side	0 mm
<ul> <li>for grounded parts at 400 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	
<ul> <li>Ion hve parts at 400 v</li> <li>— downwards</li> </ul>	30 mm
— upwards	30 mm
— at the side	9 mm
• for grounded parts at 500 V	<b>a</b> a
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 500 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for grounded parts at 690 V</li> </ul>	
— 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
Connections/ Terminals	
type of electrical connection	
for main current circuit	spring-loaded terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded 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 4 mm²)
— finely stranded with core end processing	2x (0.5 2.5 mm²)
- finely stranded without core end processing	2x (0.5 2.5 mm²)
• for AWG cables for main contacts	2x (20 12)
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> )
<ul> <li>— finely stranded without core end processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> )

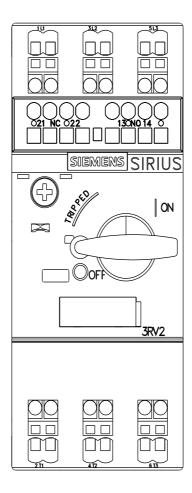
design of screwdrive	design of screwdriver shaft			Diameter 3 mm			
size of the screwdriver tip			3,0 x 0,5 mm				
afety related data							
B10 value							
<ul> <li>with high deman</li> </ul>	d rate according to SN 319	20	5 000				
proportion of dangerous failures							
with low demand rate according to SN 31920			50 %				
<ul> <li>with high demand rate according to SN 31920</li> </ul>			50 %				
failure rate [FIT]							
with low demand rate according to SN 31920			50 FIT				
T1 value for proof test interval or service life according to IEC			10 a				
61508							
protection class IP on the front according to IEC 60529			IP20				
touch protection on t	he front according to IEC	60529 i	finger-safe, for vertical contact from the front				
display version for swit	ching status		Handle				
Certificates/ approvals							
	weyvel				For use in hazard-		
General Product App	rovai				ous locations		
	<u>Confirmation</u>		<u>KC</u>	EAC	K ATEX		
For use in hazard- ous locations	Declaration of Conform	nity	Test Certificates		Marine / Shipping		
IECEx	UK CA	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS		
Marine / Shipping					other		
BUREAU VERITAS		Lloyds Register uis	PRS	RINA	<u>Confirmation</u>		
other	Railway						
	<u>Confirmation</u>	<u>Vibration and Sho</u>	<u>ıck</u>				
urther information							
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Please contact your loo	cal Siemens office on the st	atus of validity of the	e EAC certification if you intend	d to import or offer to sup	ply these products to an		
·	other than the sanctioned E	AEU member states	s Russia or Belarus).				
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http://www.automation.	siemens.com/bilddb/cax_dong characteristics, I <sup>2</sup> t, Let	e.aspx?mlfb=3RV20					
Unaracteristic: Trippi	ny unaracteristics, I't, Let	-unouun current					

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

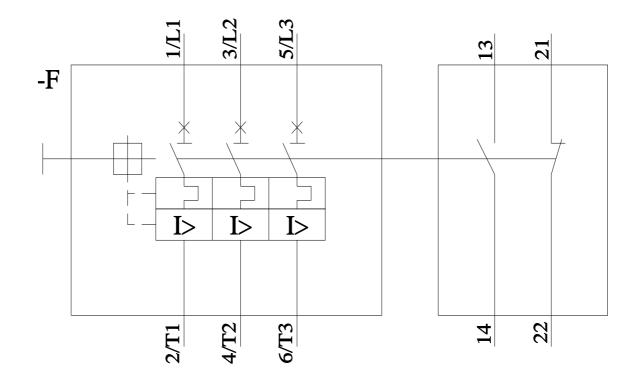
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1AA25/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1AA25&objecttype=14&gridview=view1







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