## SIEMENS

## Data sheet

## 3RV2011-0DA25



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.22...0.32 A N-release 4.2 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		
ambient temperature during transport	-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	0.22 0.32 A		



current-dependent overload release	
operating voltage rated value	690 V
operating voltage at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	0.32 A
operational current at AC-3 at 400 V rated value	0.32 A
operating power at AC-3	
at 230 V rated value	40 W
<ul> <li>at 400 V rated value</li> </ul>	90 W
• at 500 V rated value	120 W
at 690 V rated value	120 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
at 500 V rated value	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
• at AC at 400 V rated value	100 kA
• at AC at 500 V rated value	100 kA
at AC at 690 V rated value	100 kA
response value current of instantaneous short-circuit trip unit	4.2 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	0.32 A
at 600 V rated value	0.32 A
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	
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	
	Fuse of /o(3: 10) A miniature circuit breaker (16.4 (short-circuit current
required	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
required	
required Installation/ mounting/ dimensions	
required	lk < 400 Å)



	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
— upwards	30 mm
— at the side	9 mm
<ul> <li>for live parts at 400 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	
	9 mm
• for grounded parts at 500 V	20 mm
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 500 V	22
— 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	
product function removable terminal for auxiliary and control circuit	No
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	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	
<ul> <li>for main contacts</li> </ul>	
— solid or stranded	2x (0,5 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)
<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)
<ul> <li>— finely stranded without core end processing</li> </ul>	2x (0.5 1.5 mm²)
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 14)
design of screwdriver shaft	Diameter 3 mm
size of the screwdriver tip	3,0 x 0,5 mm
Safety related data	
B10 value	
	5 000
B10 value	5 000

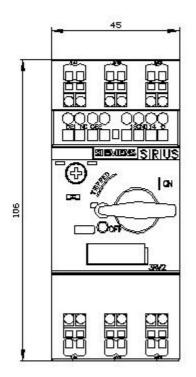


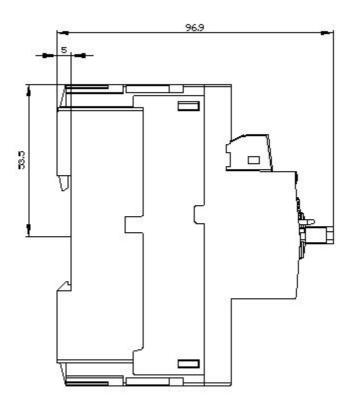
• with low demand rate acc. to SN 31920		920 50	%			
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>		920 50	%			
failure rate [FIT]						
• with low demand rate acc. to SN 31920		50	50 FIT			
T1 value for proof test interval or service life acc. to IEC 61508		e life acc. to 10	10 у			
protection class IP on the front acc. to IEC 60529		EC 60529 IP2	IP20			
touch protection o	n the front acc. to IEC	<b>C 60529</b> fing	er-safe, for vertical conta	ct from the front		
display version for s	witching status	Har	ndle			
Certificates/ approva	als					
General Product A					For use in hazardous locations	
			<u>KC</u>	EAC	ATEX A	
For use in hazardous locations	Declaration of Co	nformity	Test Certificates		Marine / Shipping	
IECEx	CE EG-Konf.	<u>Miscellaneous</u>	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	<u>Special Test</u> <u>Certificate</u>	ABS	
Marine / Shipping						
BUREAU VERITAS	Lloyd's Register	PRS	RINA	RMRS	DNV-GL	
other		Railway				
<u>Confirmation</u>		Vibration and Shock	<u>Confirmation</u>			
Further information						
Information- and D https://www.siemens	ownloadcenter (Cata	logs, Brochures,…)				
	ne ordering system)					
https://mall.industry.	siemens.com/mall/en/e	en/Catalog/product?mlfb	=3RV2011-0DA25			
Service&Support (	ation.siemens.com/W\ Manuals, Certificates	, Characteristics, FAQ		<u>1-0DA25</u>		
Image database (p	roduct images, 2D dii	<u>w/en/ps/3RV2011-0DA2</u> mension drawings, 3D b/cax_de.aspx?mlfb=3R	models, device circuit o	diagrams, EPLAN ma	acros,)	
		, I <sup>2</sup> t, Let-through currer w/en/ps/3RV2011-0DA2				

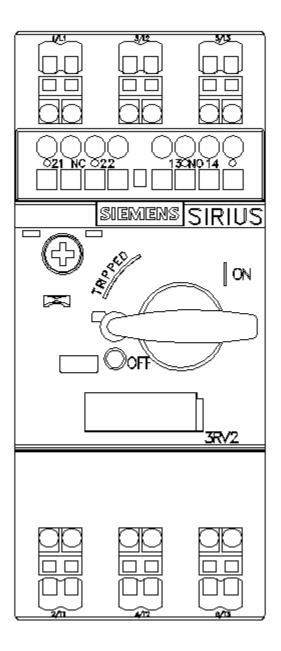
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0DA25/char

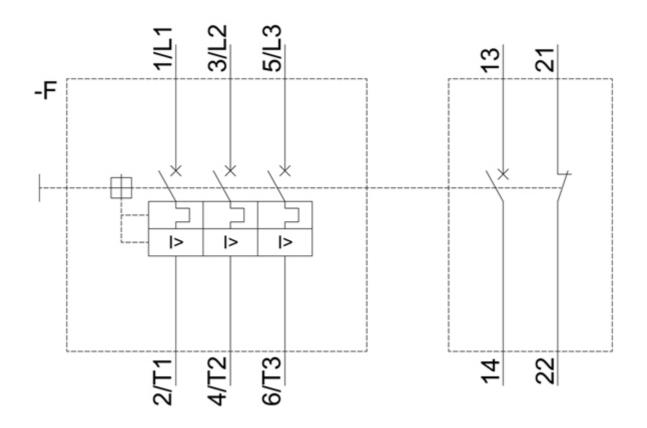
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0DA25&objecttype=14&gridview=view1











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