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			
 at AC in hot operating state 	5.5 W		
 at AC in hot operating state per pole 	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			
 between main and auxiliary circuit 	400 V		
 between main and auxiliary circuit 	400 V		
shock resistance acc. to IEC 60068-2-27	25g / 11 ms		
mechanical service life (switching cycles)			
 of the main contacts typical 	100 000		
 of auxiliary contacts typical 	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		
 ambient temperature during operation 	-20 +60 °C		
 ambient temperature during storage 	-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
 at 400 V rated value 	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	
 ground fault detection 	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	
 for short-circuit protection of the auxiliary switch 	
	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	
 for grounded parts at 400 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for live parts at 400 V 	
— 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
 for grounded parts at 690 V 	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
 for live parts at 690 V 	
— 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	
 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 	
— 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)
 at 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)
 — finely stranded with core end processing 	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
Safety related data	
B10 value	
	5 000
B10 value	5 000

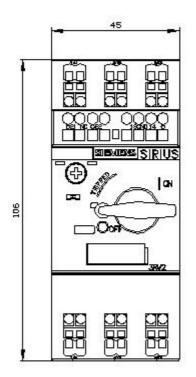


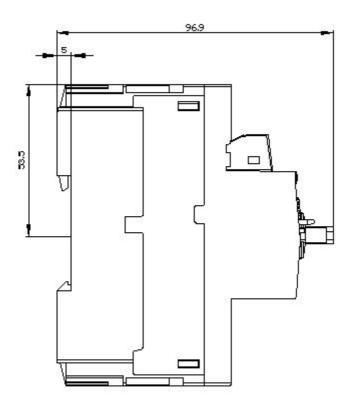
• with low demand rate acc. to SN 31920		920 50	%			
 with high demand rate acc. to SN 31920 		920 50	%			
failure rate [FIT]						
• with low demand rate acc. to SN 31920		50	50 FIT			
T1 value for proof test interval or service life acc. to IEC 61508		e life acc. to 10	10 у			
protection class IP on the front acc. to IEC 60529		EC 60529 IP2	IP20			
touch protection o	n the front acc. to IEC	C 60529 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 ² t, Let-through currer w/en/ps/3RV2011-0DA2				

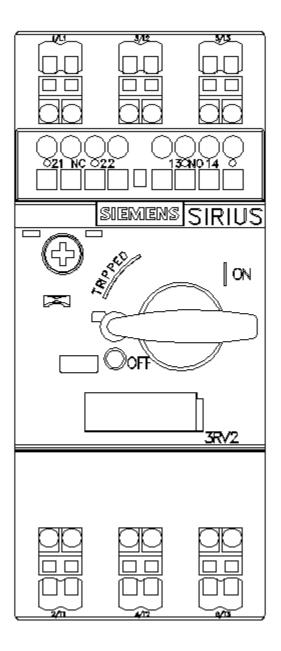
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0DA25/char

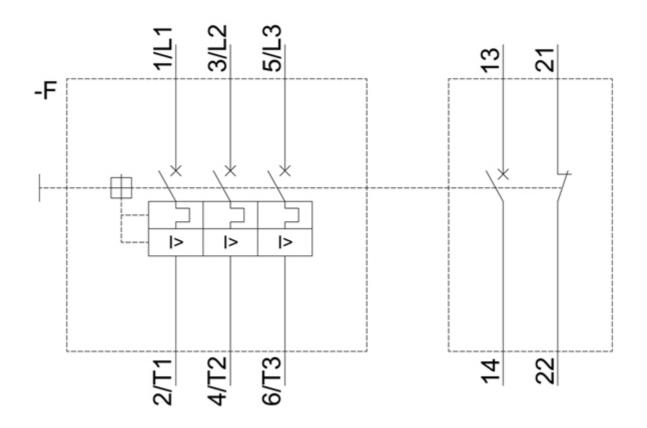
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0DA25&objecttype=14&gridview=view1











last modified:

12/15/2020 🖸