SIEMENS

Data sheet

3RV2011-1AA20-0BA0



Special type 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 Ambient temperature -50 $^\circ$ C 500 switching cycles

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 	7.25 W
at AC in hot operating state per pole	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 (switching cycles)	
 of the main contacts typical 	500
 of auxiliary contacts typical 	500
electrical endurance (switching cycles) typical	500
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 	-50 +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
 at AC-3 rated value maximum 	690 V
 at AC-3e rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	1.6 A
operational current	
 at AC-3 at 400 V rated value 	1.6 A

• at AC-3e at 400 V rated value	1.6 A		
operating power			
• at AC-3			
- at 230 V rated value	0.3 kW		
- at 400 V rated value	0.5 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			
number of NC contacts for auxiliary contacts	0		
number of NO contacts for auxiliary contacts	0		
number of CO contacts for auxiliary contacts	0		
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 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		
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		
response value current of instantaneous short-circuit trip unit	21 A		
Short-circuit protection			
product function short circuit protection	Yes		
design of the short-circuit trip	magnetic		
design of the fuse link for IT network for short-circuit protection of the main circuit			
• at 500 V	gG 20 A		
• at 690 V	gG 16 A		
Installation/ mounting/ dimensions			
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			
 for grounded parts at 400 V — downwards 	30 mm		
— downwards — upwards	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		
 for grounded parts at 500 V 			
— downwards	30 mm		
— upwards	30 mm		
— at the side	9 mm		
	•		

 for live parts at 	500 V				
- downwards	3		30 mm		
— upwards			30 mm		
— at the side			9 mm		
 for grounded pa 	rts at 690 V				
- downwards	6		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/ Termina	le		U mini		
type of electrical cor			opring localed torreits		
for main current			spring-loaded terminals		
arrangement of elect	trical connectors for	main current	Top and bottom		
type of connectable	conductor cross-sec	tions			
 for main contact 	ts				
— solid or stra	anded		2x (0,5 4 mm²)		
— finely stran	ded with core end proc	cessing	2x (0.5 2.5 mm ²)		
	ded without core end p		2x (0.5 2.5 mm ²)		
design of screwdrive			Diameter 3 mm		
size of the screwdriv			3,0 x 0,5 mm		
Safety related data					
	interval or service life	according to	10 y		
T1 value for proof test interval or service life according to IEC 61508		10 y			
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			Handle		
Certificates/ approvals					
General Product Ap	proval		Declaration of Conf	formity	Test Certificates
<u>Confirmation</u>	<u>KC</u>	EHC	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report
Test Certificates	Marine / Shipping				
<u>Special Test Certific-</u> <u>ate</u>	ABS			Lloyd's Register urs	PRS
Marine / Shipping		other		Railway	
RINA	RMRS	<u>Confirmatio</u>		<u>Confirmation</u>	Vibration and Shock
Further information					

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=3RV2011-1AA20-0BA0 Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1AA20-0BA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1AA20-0BA0

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1AA20-0BA0&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1AA20-0BA0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1AA20-0BA0&objecttype=14&gridview=view1

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