SIEMENS

Data sheet

3RV2011-0KA25



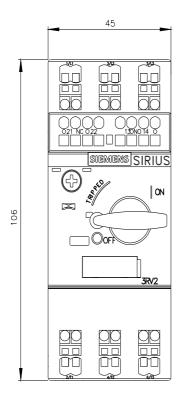
Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.9...1.25 A N-release 16 A Spring-type terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

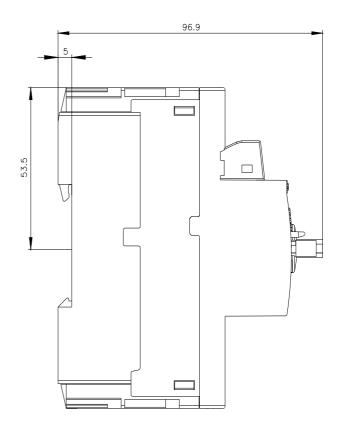
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	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 (operating cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	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
SVHC substance name	Blei - 7439-92-1
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	0.9 1.25 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	1.25 A

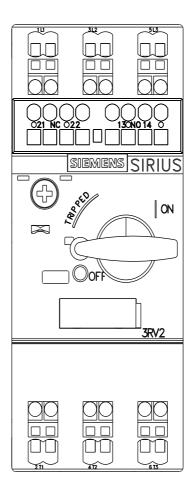
operational current	4.05.4
• at AC-3 at 400 V rated value	1.25 A
at AC-3e at 400 V rated value	1.25 A
operating power	
• at AC-3	
— at 230 V rated value	0.2 kW
— at 400 V rated value	0.37 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.8 kW
• at AC-3e	
— at 230 V rated value	0.2 kW
— at 400 V rated value	0.37 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.8 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	1A
• 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
maximum short-circuit current breaking capacity (lcu)	
 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
operating short-circuit current breaking capacity (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	16 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	1.25 A
• at 480 V rated value	
at 480 V rated valueat 600 V rated value	1.25 A 1.25 A
at 480 V rated value at 600 V rated value yielded mechanical performance [hp]	
at 480 V rated value at 600 V rated value yielded mechanical performance [hp] o for 3-phase AC motor	1.25 A
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor at 460/480 V rated value 	1.25 A 1 hp
at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value	1.25 A 1 hp 0.5 hp
at 480 V rated value at 600 V rated value yielded mechanical performance [hp] o for 3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL	1.25 A 1 hp
at 480 V rated value at 600 V rated value ielded mechanical performance [hp] for 3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	1.25 A 1 hp 0.5 hp C300 / R300
at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection	1.25 A 1 hp 0.5 hp C300 / R300 Yes
at 480 V rated value at 600 V rated value ielded mechanical performance [hp] for 3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	1.25 A 1 hp 0.5 hp C300 / R300

• for short-circuit protection of the auxiliary switch required	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 16 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
 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 	
— 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
 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	
type of electrical connection	
for main current circuit	spring-loaded terminals
 for main current circuit for auxiliary and control circuit 	spring-loaded terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	rop 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 mm ²)
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)
	28 (0.5 2.5 mm)
- finely stranded with core end processing	
 finely stranded with core end processing finely stranded without core end processing 	2x (0.5 1.5 mm ²)
 finely stranded with core end processing finely stranded without core end processing for AWG cables for auxiliary contacts 	

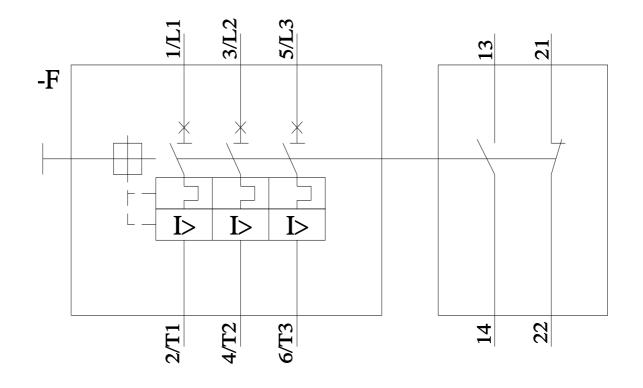
	er tip		3,0 x 0,5 mm		
afety related data	P				
B10 value					
	d rate according to SN 240	20	5 000		
	d rate according to SN 319	22U	5 000		
proportion of danger			50.0/		
	d rate according to SN 3192		50 %		
with high demand rate according to SN 31920		920	50 %		
failure rate [FIT]					
 with low demand rate according to SN 31920 		50 FIT			
T1 value for proof test interval or service life according to IEC 61508		10 a			
protection class IP on the front according to IEC 60529		IP20			
touch protection on the front according to IEC 60529		finger-safe, for vertical contac	t from the front		
display version for switching status		Handle			
ertificates/ approvals	<u> </u>	_			
General Product App	roval			For use in hazardous lo	ocations
General Froduct App	loval			For use in nazardous ic	Jeauons
<u>Confirmation</u>			EHC	K ATEX	IECEx
Declaration of Confor	rmity	Test Certificates	S	Marine / Shipping	
UK CA	CE EG-Konf.	Special Test Cer ate	tific- Type Test Certific- ates/Test Report	ABS	BUREAU VERITAS
Marine / Shipping				other	
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	Lloyd's Register uis	PRS	RINA	Household and similar appliances	<u>Confirmation</u>
other	Lins Railway	PRS	Environment	Household and similar	Confirmation
other VDE	LRS LRS Vibration and Shock	PRS PRS		Household and similar	Confirmation
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