SIEMENS

Data sheet 3RV2111-1BA10



Circuit breaker size S00 for motor protection, CLASS 10 with overload relay function A-release 1.4...2 A N-release 26 A screw terminal Standard switching capacity

product brand name product designation design of the product SIRIUS Circuit breaker

For motor protection with overload relay function

design of the product	For motor protection with overload relay function
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
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	1.4 2 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	2 A
operational current	
 at AC-3 at 400 V rated value 	2 A
 at AC-3e at 400 V rated value 	2 A
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operating power

	-1.40.0	
	• at AC-3	0.4144
		1.1 KVV
		0.4 MA
— at 500 V rated value — at 600 V rated value — at 600 V rated value operating frequency • at AC-3 maximum • 15 1/h Auxillary circuit design of the auxillary switch number of NC contacts for auxillary contacts 0 number of NC contacts for auxillary contacts 0 number of CO contacts for auxillary contacts 15 A • at 22 V • at 220 V • at 22 V • at 22 V • at 22 V • at 22 V • at 24 V • at 24 V Protective and monitoring functions product function • prace failure detection • prace failure detection • prace failure detection • prace failure detection • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 460 V rated value • at 660 V rated value • at 670 V rate		
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- at 460/480 V rated value 1 hp - at 575/600 V rated value 2 1 hp contact rating of auxiliary contacts according to UL 2 C600 / R300 Short-circuit protection Yes design of the short-circuit trip magnetic 4 magnetic 4 magnetic 5 magnetic 5 magnetic 6 magnetic 6 magnetic 7 magnetic 8 magnetic 8 magnetic 8 magnetic 9 m		0.13 hp
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design of the short-circuit trip design of the fuse link • for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V magnetic fuse gL/gG: 6 A, quick: 10 A gL/gG 25 A gL/gG 25 A		V
design of the fuse link • for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V design of the fuse link for IT network for short-circuit gludges at 400 V • at 500 V design of the fuse link for IT network for short-circuit gludges at 400 V • at 500 V		
for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit at 400 V at 500 V fuse gL/gG: 6 A, quick: 10 A gL/gG 25 A gL/gG 25 A		magnetic
required design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V gL/gG 25 A gL/gG 25 A	_	from all (aC) C A grainly 40 A
design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V gL/gG 25 A • at 500 V gL/gG 25 A		iuse gi/gis. o A, quick. To A
protection of the main circuit		
● at 500 V gL/gG 25 A		
	• at 400 V	gL/gG 25 A
● at 690 V	● at 500 V	gL/gG 25 A
V V	• at 690 V	gL/gG 20 A

nstallation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
	60715
height	97 mm
width	65 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	20
— 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
	50 mm
— upwards	
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²
finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for main contacts	2x (18 14), 2x 12
type of connectable conductor cross-sections	LA (10 17), LA 12
for auxiliary contacts— solid or stranded	2v (0.5 1.5 mm²) 2v (0.75 2.5 mm²)
	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
tightening torque	
 for main contacts with screw-type terminals 	0.8 1.2 N·m
 for auxiliary contacts with screw-type terminals 	0.8 1.2 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv size 2
 	
design of the thread of the connection screw	
	M3
design of the thread of the connection screw • for main contacts	M3 M3
design of the thread of the connection screw • for main contacts • of the auxiliary and control contacts	
design of the thread of the connection screw • for main contacts • of the auxiliary and control contacts Safety related data	
design of the thread of the connection screw • for main contacts • of the auxiliary and control contacts	

proportion of dangerous failures

• with low demand rate according to SN 31920

• with high demand rate according to SN 31920

failure rate [FIT]

with low demand rate according to SN 31920

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529

display version for switching status

50 %

50 %

50 FIT 10 a

IP20

finger-safe, for vertical contact from the front

Handle

Certificates/ approvals

General Product Approval

Declaration of Conformity



Confirmation



<u>KC</u>





Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping



LRS







Confirmation

other



Railway

Vibration and Shock

Confirmation

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RV2111-1BA10

Cax online generator

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2111-1BA10

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

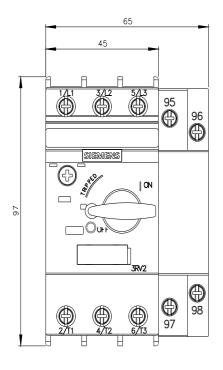
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2111-1BA10&lang=en

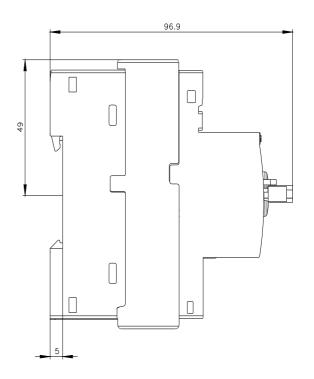
Characteristic: Tripping characteristics, I2t, Let-through current

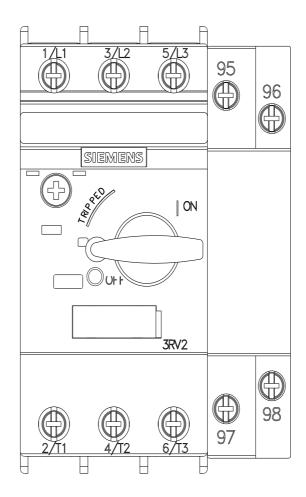
https://support.industry.siemens.com/cs/ww/en/ps/3RV2111-1BA10/char

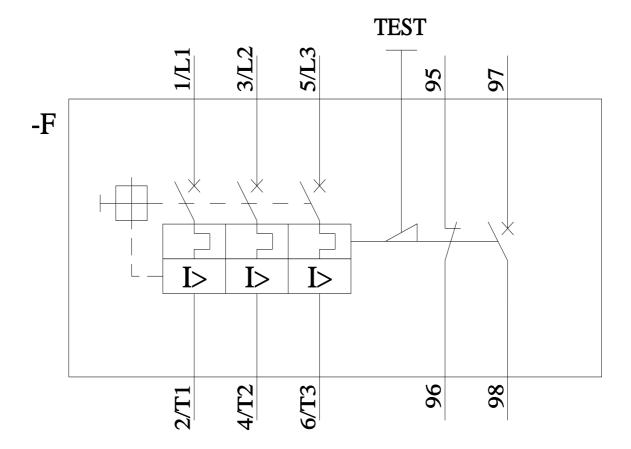
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2111-1BA10&objecttype=14&gridview=view1









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