SIEMENS

Data sheet

3RV2011-0GA25



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.45...0.63 A N-release 8.2 A Spring-type terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

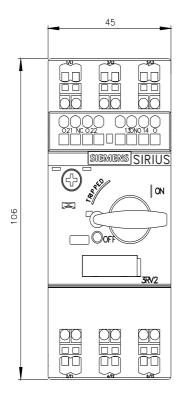
product brank name SIRIUS product designation Circuit breaker design of the product For motor protection product type designation SNV2 Ceneral tachnical data SNO size of the circuit-breaker SNO size of the circuit-breaker SNO off contactor can be combined company-specific SNO power loss [W] for rated 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 680 V surge voltage resistance rated value 6 KV • of at withing contacts typical 100 000 • of at withing contacts typical 100 000 etrificate of subality according to ATEX directive 2014/34/EU Ext II (2) GD curring to resistance name Biel - 743/92-1 Anbient conditions 2000 m refuence of according to ATEX directive 2014/34/EU DMT 02 ATEX F 001 SVHC substance name Biel - 743/92-1 Anbient conditions 2000 m entitic tingraport		
design of the product For motor protection graduct type designation 3RV2 conneral texchined data	product brand name	SIRIUS
product type designation 3RV2 General tachnical data	product designation	Circuit breaker
General technical data Stop 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 ************************************	design of the product	For motor protection
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 1.8 W insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2:27 25g / 11 ms mechanical service life (operating cycles) vipical 100 000 • of the main contacts typical 100 000 • of auxiliary contacts typical 100 000 • of auxiliary contacts typical 100 000 • electrical endurance (operating cycles) vipical 100 000 • of auxiliary contacts typical 100 000 • grotection 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 81366-2 Q Substance Prohibitance (Date) 100/12009 SVHC substance name Blei - 7439-92-1 Ambient conditions 2000 m installation attrude at height above sea level maximum 2000 m • during tansport -50 +60 °C •	product type designation	3RV2
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 • 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 680 V surge voltage resistance rated value 68 V shock resistance according to IEC 60068-2-27 Z5g /11 ms mechanical service life (operating cycles) 100 000 • of dauxiliary contacts typical 100 000 electrical endurance (operating 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) 100/1/2009 SVHC substance name Blei - 7439-92-1 Ambient conditions - installation altitude at height above sea level maximum 2 000 m amblent temperature -50 +60 °C • during storage -50 +60 °C • during storage -50 +60 °C • during transport -50 +60 °C • during transport -50 +60 °C • during transport -50 +60 °C • du	General technical data	
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• 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 690 V shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) 00 000 • 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) 1001/2009 SVHC substance name Biel - 7439-92-1 Ambient temperature - 400 °C • during operation -20 +60 °C • during transport -50	product extension auxiliary switch	Yes
• at AC in hot operating state per pole 1.8 W insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) 6 kV • of the main contacts typical 100 000 • of auxiliary contacts typical 100 000 electrical endurance (operating cycles) 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) 100/01/2009 SVHC substance name Blei - 7439-92-1 Ambient conditions -20 +60 °C • during storage -50 +60 °C • during storage -50 +60 °C • during transport -50 +60 °C • during treasport -50 +60 °C	power loss [W] for rated value of the current	
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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 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 0.45 0.63 A operating voltage - - • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum 690 V • at AC-3 rated value 50 60 Hz	 of the main contacts 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 ATEX directive 2014/34/EU DMT 02 ATEX F 001 reference code according to ATEX directive 2014/34/EU DMT 02 ATEX F 001 Substance Prohibitance (Date) 10/01/2009 SVHC substance name Blei - 7439-92-1 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature - 20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 0.45 0.63 A operating voltage - • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum 690 V • at AC-3 rated value maxi	 of auxiliary contacts typical 	100 000
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 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 0.45 0.63 A operating voltage - • rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • at AC-3e rated value maximum 690 V • operating frequency rated value 50 60 Hz	electrical endurance (operating cycles) typical	100 000
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Blei - 7439-92-1 Ambient conditions	type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
Substance Prohibitance (Date) 10/01/2009 SVHC substance name Blei - 7439-92-1 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- 0.45 0.63 A operating voltage 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • at AC-3e rated value maximum 690 V • operating frequency rated value 50 60 Hz	certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
SVHC substance name Bilei - 7439-92-1 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- 0.45 0.63 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 50 600 Hz	reference code according to IEC 81346-2	Q
Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 0.45 0.63 A operating voltage 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • at AC-3e rated value maximum 690 V • at AC-3e rated value 50 60 Hz	Substance Prohibitance (Date)	10/01/2009
installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 0.45 0.63 A operating voltage 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • at AC-3e rated value maximum 690 V • operating frequency rated value 50 60 Hz	SVHC substance name	Blei - 7439-92-1
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• during operation-20 +60 °C• during storage-50 +80 °C• during transport-50 +80 °Crelative humidity during operation10 95 %Main circuit3number of poles for main current circuit3adjustable current response value current of the current- dependent overload release0.45 0.63 Aoperating voltage20 690 V• at AC-3 rated value maximum690 V• at AC-3e rated value maximum690 Voperating frequency rated value50 60 Hz	installation altitude at height above sea level maximum	2 000 m
• during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 0.45 0.63 A operating voltage 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • at AC-3e rated value maximum 690 V	ambient temperature	
• during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 0.45 0.63 A operating voltage 0.45 0.690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • at AC-3e rated value maximum 690 V	 during operation 	-20 +60 °C
relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 0.45 0.63 A operating voltage 0.45 0.690 V • rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • at AC-3e rated value maximum 690 V	during storage	-50 +80 °C
Main circuit number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 0.45 0.63 A operating voltage 0.45 0.60 V • 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	during transport	-50 +80 °C
number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 0.45 0.63 A operating voltage rated value at AC-3 rated value maximum 690 V at AC-3e rated value maximum 690 V operating frequency rated value 	relative humidity during operation	10 95 %
adjustable current response value current of the current- 0.45 0.63 A operating voltage • rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • perating frequency rated value 50 60 Hz	Main circuit	
dependent overload release operating voltage • rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • at AC-3e rated value maximum 690 V • operating frequency rated value 50 60 Hz	number of poles for main current circuit	3
• rated value20 690 V• at AC-3 rated value maximum690 V• at AC-3e rated value maximum690 V• operating frequency rated value50 60 Hz		0.45 0.63 A
• at AC-3 rated value maximum690 V• at AC-3e rated value maximum690 Voperating frequency rated value50 60 Hz	operating voltage	
• at AC-3e rated value maximum 690 V 690 V 50 60 Hz	rated value	20 690 V
operating frequency rated value 50 60 Hz	 at AC-3 rated value maximum 	690 V
	• at AC-3e rated value maximum	690 V
operational current rated value 0.63 A	operating frequency rated value	50 60 Hz
	operational current rated value	0.63 A

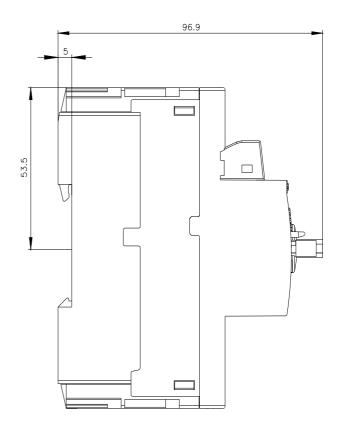
operational current	
 at AC-3 at 400 V rated value 	0.63 A
 at AC-3e at 400 V rated value 	0.63 A
operating power	
• at AC-3	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.2 kW
— at 690 V rated value	0.3 kW
• at AC-3e	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.2 kW
— at 690 V rated value	0.3 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
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 60 V	0.15 A
Protective and monitoring functions	0.1077
product function	
•	No
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (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
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	8.2 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
· · ·	
 at 480 V rated value 	0.63 A
• at 600 V rated value	0.63 A
at 600 V rated value contact rating of auxiliary contacts according to UL	
at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	0.63 A C300 / R300
at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection	0.63 A C300 / R300 Yes
t 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip	0.63 A C300 / R300
t 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link	0.63 A C300 / R300 Yes magnetic
t 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link • for short-circuit protection of the auxiliary switch required	0.63 A C300 / R300 Yes
t 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link	0.63 A C300 / R300 Yes magnetic Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400

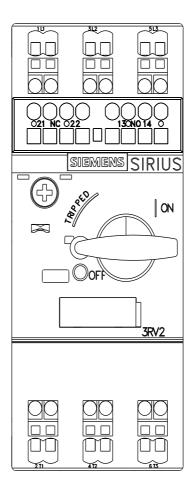
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
height	106 mm		
width	45 mm		
depth	97 mm		
required spacing			
with side-by-side mounting at the side	0 mm		
• for grounded parts at 400 V			
— downwards	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		
	30 mm		
— upwards — at the side	9 mm		
• for live parts at 500 V	20 mm		
— 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 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 mm ²)		
 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)		
 finely stranded with core end processing 	2x (0.5 1.5 mm ²)		
 finely stranded with one on processing finely stranded without core end processing 	2x (0.5 1.5 mm ²)		
 for 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			
proportion of dangerous failures	F0.0/		
• with low demand rate according to SN 31920	50 %		
	50 % 50 % 50 FIT		

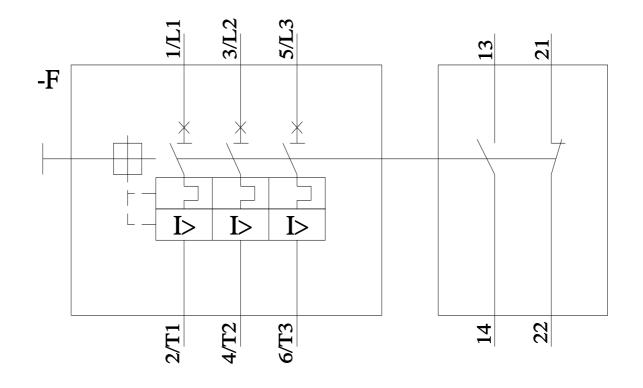
31920						
B10 value with high demand rate according to SN 31920			5 000			
T1 value for proof test interval or service life according to IEC 61508			10 a			
protection class IP on	the front according to I	EC 60529	IP20			
touch protection on th	ne front according to IEC	C 60529	finger-safe, for vertical contact	from the front		
display version for swite	ching status		Handle			
Approvals Certificates						
General Product App	roval				For use in hazard- ous locations	
<u>Confirmation</u>		UL UL	KC	EHC	IECEx	
For use in hazard- ous locations	Declaration of Confor	mity	Test Certificates		Marine / Shipping	
KEX ATEX	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS	
Marine / Shipping					other	
BUREAU VERITAS		Lloyd's Register uts	PRS	RINA	Household and similar appliances	
other		Railway		Environment		
<u>Confirmation</u>		Confirmation	<u>Vibration and Shock</u>	Environmental Con- firmations		

Further information
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2011-0GA25
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0GA25
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0GA25
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0GA25⟨=en
Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0GA25/char
Further characteristics (e.g. electrical endurance, switching frequency) <u>http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0GA25&objecttype=14&gridview=view1</u>









last modified:

8/29/2023 🖸