SIEMENS

Data sheet



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.22...0.32 A N-release 4.2 A screw terminal Standard switching capacity Multi-unit packaging Pack = 12 units

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	
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	0.22 0.32 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	0.32 A	

operational current	
• at AC-3 at 400 V rated value	0.32 A
at AC-3e at 400 V rated value	0.32 A
operating power	
• at AC-3	
— at 230 V rated value	0 kW
— at 400 V rated value	0.09 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 kW
• at AC-3e	
— at 230 V rated value	0 kW
— at 400 V rated value	0.09 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 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	No
ground fault detection	
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	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
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
Installation/ 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	45 mm
depth	97 mm
required spacing	O. 11111
with side-by-side mounting at the side	0 mm
-	O TILLII
• for grounded parts at 400 V	20
— 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
- downwards - at the side 9 mm • for live parts at 50 V - downwards 30 mm - upwards 30 mm - upwards 30 mm - upwards 30 mm - on the side 9 mm • for grounded parts at 690 V - downwards 50 mm - upwards 50 mm - backwards 50 mm - backwards 0 mm - backwards 0 mm - the side 30 mm - the side 30 mm - towards 50 mm - backwards 0 mm - towards 50 mm - towards 0 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - towards 0 mm - the side 30 mm - towards 0 mm - towards 0 mm - towards 10 mm - towards 10 mm - to the side 10 mm - towards 10 mm	downwards		3 111111
upwards	upwards	-	30 mm
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- downwards - upwards - 30 mm - 9 mm	downwards		3 111111
- upwards - at the side - of orgrounded parts at 690 V - downwards - backwards - backwards - at the side - for live parts at 690 V - downwards - at the side - for wards - onwards - for live parts at 690 V - downwards - for live parts at 690 V - downwards - opwards - upwards - opwards - upwards - opwards - upwards - onm - onwards - onm - onm - onwards - onm	- upwards		20 mm
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- upwards	- upwards	•	FO
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• for AWG cables for main contacts **tightening torque** • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts **for main contacts **Safety related data** **B10 value** • with high demand rate according to SN 31920 **proportion of dangerous failures** • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 **proportion of dangerous failures** • with low demand rate according to SN 31920 **proportion of dangerous failures** • with low demand rate according to SN 31920 *proportion of dangerous failures** • with low demand rate according to SN 31920 *proportion of dangerous failures** • with low demand rate according to SN 31920 *proportion of dangerous failures** • with low demand rate according to SN 31920 *proportion of dangerous failures** • with low demand rate according to SN 31920 *proportion of dangerous failures** • with low demand rate according to SN 31920 *proportion of dangerous failures** • with low demand rate according to SN 31920 *proportion of dangerous failures** • with low demand rate according to SN 31920 *proportion of dangerous failures** • with low demand rate according to SN 31920 *proportion of dangerous failures** *proportion of	• for AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts	 solid or stranded 	2x (0,75 2,5 mm²), 2x 4 mm²
tightening torque • for main contacts with screw-type terminals 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 • for main contacts M3 Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with low 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 Handle	tightening torque • for main contacts with screw-type terminals 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 • for main contacts M3 Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low 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 Certificates/ approvals	 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
• for main contacts with screw-type terminals design of screwdriver shaft plameter 5 to 6 mm size of the screwdriver tip design of the thread of the connection screw • for main contacts M3 Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 with high demand rate according to SN 31920 in with low demand rate according to SN 31920 with high demand rate according to SN 31920 in with low 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 Handle	• for main contacts with screw-type terminals 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 • for main contacts M3 Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • 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 Certificates/ approvals	for AWG cables for main contacts	2x (18 14), 2x 12
design of screwdriver shaft size of the screwdriver tip Pozidriv size 2 design of the thread of the connection screw of or main contacts M3 Safety related data B10 value owith high demand rate according to SN 31920 proportion of dangerous failures owith low demand rate according to SN 31920 owith high demand rate according to SN 31920 failure rate [FIT] owith 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 Handle	design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts M3 Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low 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 finger-safe, for vertical contact from the front display version for switching status Certificates/ approvals	tightening torque	
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design of the thread of the connection screw	design of the thread of the connection screw	design of screwdriver shaft	Diameter 5 to 6 mm
• for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high 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 M3 M3 M3 P00 F00 F00 F00 F00 F00 F00 F0	for main contacts Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 with high demand rate according to SN 31920 with low demand rate according to SN 31920 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 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status Certificates/ approvals	size of the screwdriver tip	Pozidriv size 2
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with high demand rate according to SN 31920 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 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 FIT 10 a 11 p20 finger-safe, for vertical contact from the front Handle	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 Certificates/ approvals 50 % 10 a 10 a 11 p20 12 finger-safe, for vertical contact from the front Handle	proportion of dangerous failures	
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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 finger-safe, for vertical contact from the front display version for switching status Handle	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 Certificates/ approvals 10 a 10 a IP20 Handle	failure rate [FIT]	
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status IP20 finger-safe, for vertical contact from the front Handle	protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status Certificates/ approvals IP20 Handle Certificates/ approvals	with low demand rate according to SN 31920	50 FIT
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front display version for switching status Handle	touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front display version for switching status Certificates/ approvals		10 a
display version for switching status Handle	display version for switching status Handle Certificates/ approvals	protection class IP on the front according to IEC 60529	IP20
	Certificates/ approvals	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Certificates/ approvals		display version for switching status	Handle
	Further information	Certificates/ approvals	
Further information		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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2011-0DA10-Z W97

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0DA10-Z W97

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0DA10-Z W97

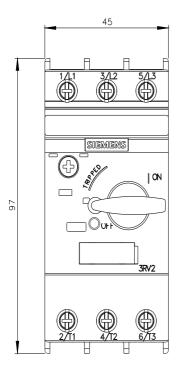
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RV2011-0DA10-Z W97&lang=en

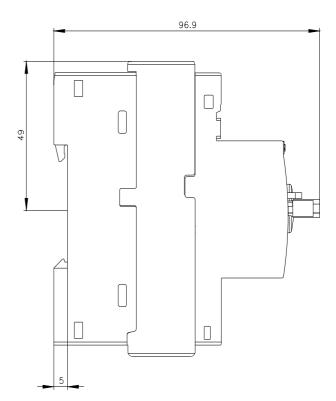
Characteristic: Tripping characteristics, I2t, Let-through current

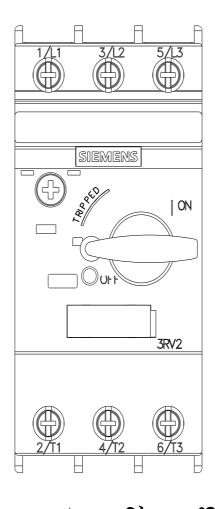
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0DA10-Z W97/char

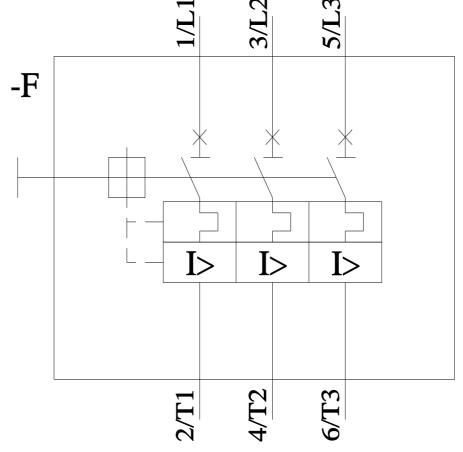
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0DA10-Z W97&objecttype=14&gridview=view1









last modified: 8/29/2023 🖸