## SIEMENS

## Data sheet

## 3RV2011-1HA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 5.5...8 A N-release 104 A screw terminal Standard switching capacity

2/11 4/12 6/13	
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	
<ul> <li>at AC in hot operating state</li> </ul>	9.25 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.1 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)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-20 +60 °C
<ul> <li>during storage</li> </ul>	-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	5.5 8 A
operating voltage	
rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	8 A

operational current	0.0
at AC-3 at 400 V rated value	8 A
at AC-3e at 400 V rated value	8 A
operating power	
• at AC-3 — at 230 V rated value	1.5 kW
— at 230 V rated value — at 400 V rated value	1.5 KW 3 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5.5 kW
• at AC-3e	0.0 KVV
- at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5.5 kW
operating frequency	0.0 KW
• 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
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	42 kA
• at AC at 690 V rated value	6 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	42 kA
• at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	104 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	8 A
at 600 V rated value	8 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
for 3-phase AC motor     at 200/208 V setect value	
- at 200/208 V rated value	2 hp
- at 220/230 V rated value	2 hp
- at 460/480 V rated value	5 hp
	5 hp
Short-circuit protection	Vac
product function short circuit protection	Yes
design of the short-circuit trip design of the fuse link for IT network for short-circuit	magnetic
protection of the main circuit	
• at 400 V	gL/gG 50 A
● at 500 V	gL/gG 40 A
• at 690 V	gL/gG 35 A
Installation/ mounting/ dimensions	
mounting position	any

height         97 mm           width         45 mm           depth         97 mm           regured spacing         97 mm           - with side-byside mounting at the side         0 mm           - dorswards         30 mm           - upwards         30 mm           - upwards         30 mm           - at the aide         0 mm           - dorswards         30 mm           - upwards         30 mm	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
with depin45 mmdepin97 mmeventh alde-by-side mouting at the side0 mm• for granufed parts at 400 V downards30 mm- upwards30 mm- upwards30 mm- upwards30 mm- downards30 mm- upwards30 mm- downards30 mm- upwards30 mm- downards30 mm- upwards30 mm-		
deph97 mmrequired spatis at 00 V		
required pairs ar 400 v         orm           - downards         30 mm           - downards         30 mm           - downards         30 mm           - upwards         50 mm           - upwar		
• with add-by-side nonuning at the add0 mm• for grounded parts at 400 V50 mm• upwards30 mm• upwards30 mm• upwards30 mm• of the parts at 400 V-• downwards30 mm• upwards30 mm• upwards50 mm• upwards50 mm• upwards50 mm• upwards30 mm• of main contacts50 mm• upwards0 mm <t< td=""><td>•</td><td></td></t<>	•	
• • or grounds of parts at 400 V•• • downwards30 mm• - at the side9 mm• • or low parts at 400 V9 mm• • downwards30 mm• - upwards30 mm• - upwards30 mm• - upwards30 mm• upwards50 mm• upwards		0 mm
- downwards 30 mm 4 m		
- upwards30 mm- at the side9 mm- downwards30 mm- upwards30 mm- upwards9 mm- downwards9 mm- downwards30 mm- at the side9 mm- downwards30 mm- upwards30 mm- at the side9 mm- downwards30 mm- at the side9 mm- downwards30 mm- upwards30 mm- upwards50 mm- upwards50 mm- upwards30 mm- upwards30 mm- upwards50 mm <td< td=""><td>-</td><td>30 mm</td></td<>	-	30 mm
• for live parts at 400 V9 mm- downwards30 mm0 mm to all the side9 mm• or grunded parts at 500 V9 mm- downwards30 mm- downwards9 mm- downwards90 mm• or grunded parts at 500 V9 mm- downwards30 mm- at the side9 mm- downwards30 mm- downwards30 mm- upwards30 mm- downwards30 mm- downwards30 mm- upwards30 mm- downwards50 mm- downards50 mm- down		
- downwards30 mm- upwards90 mm- upwards90 mm- downwards30 mm- upwards90 mm- upwards90 mm- upwards90 mm- downwards30 mm- upwards90 mm- downwards30 mm- upwards90 mm- downwards30 mm- upwards90 mm- upwards </td <td></td> <td></td>		
- upwards     30 mm       - at the side     0 mm       - downwards     30 mm       - downwards     30 mm       - upwards     50 mm       - for main current circuit     screw-type terminals       * upwards     2x (0.5 1.5 mm <sup>*</sup> ), 2x 4	•	30 mm
• for grounded parts at 500 V     30 mm       - downwards     30 mm       - at the side     9 mm       • for live parts at 500 V     9 mm       - downwards     30 mm       - upwards     30 mm       - upwards     30 mm       - at the side     9 mm       - at the side     9 mm       - at the side     9 mm       - downwards     50 mm       - downwards     50 mm       - upwards     50 mm       - of itrue parts at 600 V     50 mm       - of itrue parts at 600 V     50 mm       - of onwards     50 mm       - upwards     50 mm       - upwards     50 mm       - of onwards     50 mm       - of on main current orbut     50 mm       - of on main current orbut     50 mm       • of main contacts     50 mm		
- downwards     30 mm       - upwards     30 mm       - upwards     30 mm       - at the side     9 mm       - downwards     30 mm       - upwards     30 mm       - downwards     50 mm       - downwards     50 mm       - upwards     50 mm       - backwards     0 mm       - backwards     0 mm       - backwards     50 mm       - forwards     50 mm       - forwards     0 mm       - downwards     50 mm       - downwards     50 mm       - forwards     50 mm       - downwards     50 mm       - downwards     50 mm       - backwards     0 mm       - backwards     0 mm       - backwards     0 mm       - backwards     0 mm       - forman contacts     sover-type terminals       type of connectable conductor cross-sections     remainals       - forman contacts     2x (0.75 2.5 mm²) 2x 4 ma²       - with high domand rate according to SN 31920     50 00       - forwards     0 additis za 2		5 mm
- upwards     30 mm       - at the side     9 mm       - downwards     30 mm       - downwards     30 mm       - upwards     30 mm       - upwards     30 mm       - upwards     9 mm       - downwards     50 mm       - downwards     50 mm       - upwards     50 mm       - downwards     50 mm       - downards     50 mm       - towards     0 mm       - towards     0 mm       - towards     0 mm		30 mm
- at the side9 mm• or live parts at 500 V00 mm- upwards30 mm- upwards30 mm- at the side9 mm• or grounded parts at 600 V00 mm- at the side50 mm- downwards50 mm- backwards00 mm- backwards00 mm- at the side30 mm- backwards00 mm- at the side30 mm- forwards50 mm- downwards50 mm- downwards50 mm- backwards0 mm- at the side30 mm- downwards50 mm- upwards50 mm- upwards50 mm- upwards50 mm- upwards0 mm- backwards0 mm- upwards30 mm- backwards0 mm- backwards0 mm- backwards0 mm- forwards0 mm- for and normet toriuitscrew-type terminalsarrangement of electrical connectors for main current (cruit)Top and bottomor main contacts2x (0.75 2.5 mm²), 2x 4 mm²• or main contacts2x (0.75 2.5 mm²), 2x 4 mm²• or main contacts2x (0.75 2.5 mm²), 2x 4 mm²• or main contacts2x (0.75 2.5 mm²), 2x 4 mm²• or main contacts0.8 1.2 Nm• or main contacts0.8 1.2 Nm• or main contacts0.8 1.2 Nm• or main contacts0.9 1.2 Nm• or main contacts0.9 1.2 Nm		
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<ul> <li>• for grounded parts at 680 V</li> <li>- downwards</li> <li>- downwards</li> <li>- upwards</li> <li>- upwards</li> <li>- or wards</li> <li>- or wards</li> <li>- or wards</li> <li>- or wards</li> <li>- upwards</li> <li>- or wards</li> <li>- upwards</li> <li>- or wards</li> <li>- upwards</li> <li>- or wards</li> <li>- or main</li> <li>- or</li></ul>	•	
- downwards50 mm- upwards0 mm- backwards0 mm- forwards0 mm- forwards0 mm- forwards0 mm- downwards50 mm- upwards50 mm- upwards50 mm- upwards0 mm- backwards0 mm- the side30 mm- the side30 mm- for and0 mm- otherwards0 mm- for and current circuit30 mm- for and current circuitscrew-type terminalsTop and bottom10 part bottom- for main current circuitscrew-type terminals- for main contacts2x (0,75 2,5 mm²), 2x 4 mm²- for for anin contacts2x (0,75 2,5 mm²), 2x 4 mm²- for anin contacts0 stranded- for main contacts0 stranded <td></td> <td></td>		
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Connections/ Terminals         type of electrical connection         • for main current circuit         arrangement of electrical connectors for main current circuit         type of connectable conductor cross-sections         • for main contacts         - solid or stranded         - finely stranded with core end processing         • for AWG cables for main contacts         0 for MWG cables for main contacts         • for main contacts with screw-type terminals         0.8 1.2 Nrm         design of screwdriver shaft         blameter 5 to 6 mm         size of the screwdriver tip         Pozidriv size 2         design of the thread of the connection screw         • for main contacts         B10 value         • with high demand rate according to SN 31920         5 00%         with high demand rate according to SN 31920         5 0 %         with low demand rate according to SN 31920         5 0 %         6 with high demand rate according to SN 31920         5 0 %         6 with low demand rate according to SN 31920         5 0 %         6 with low demand rate according to SN 31920         5 0 %         6 with low demand rate according to SN 31920         5 0 % <td></td> <td></td>		
type of electrical connection       screw-type terminals         arrangement of electrical connectors for main current circuit       Top and bottom         type of connectable conductor cross-sections       of main contacts         • for main contacts       2x (0,75 2,5 mm <sup>3</sup> ), 2x 4 mm <sup>3</sup> - solid or stranded       2x (0,75 2,5 mm <sup>3</sup> ), 2x 4 mm <sup>3</sup> - finely stranded with core end processing       2x (18 14), 2x 12         tightening torque       0.8 1.2 N·m         • for main 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       6 or main contacts         • for main contacts       M3         Safety related data       5 000         proportion of dangerous failures       5 0%         • with high demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %/t         • with high demand rate according to SN 31920       50 FIT         T1 value for proof t		0 mm
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circuit     Image: solid or stranded       • for main contacts     2x (0,75 2,5 mm²), 2x 4 mm²       - solid or stranded with core end processing     2x (0,5 1,5 mm²), 2x (0.75 2,5 mm²)       • for AWG cables for main contacts     2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²)       • for MWG cables for main contacts     2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²)       • for main contacts with screw-type terminals     0.8 12, N·m       • for main contacts with screw-type terminals     0.8 1.2 N·m       design of screwdriver shaft     Diameter 5 to 6 mm       size of the screwdriver shaft     Diameter 5 to 6 mm       size of the screwdriver shaft     M3       • for main contacts     M3       Sofety related data     5000       eivith high demand rate according to SN 31920     50 %       • with high demand rate according to SN 31920     50 %       • with high demand rate according to SN 31920     50 %       • with high demand rate according to SN 31920     50 %       • with high demand rate according to SN 31920     50 %       • with high demand rate according to SN 31920     50 %       • with high demand rate according to SN 31920     50 %       • with high demand rate according to SN 31920     50 %IT       • with high demand rate according to SN 31920     50 FIT       • with high demand rate according to SN 31920     50 FIT		
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tightening torque0.8 1.2 N·mdesign of screwdriver shaftDiameter 5 to 6 mmsize of the screwdriver tipPozidriv size 2design of the thread of the connection screw• for main contactsM3Safety related dataE10 value• with high demand rate according to SN 319205 000proportion of dangerous failures50 %• with high demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %• with how demand rate according to SN 3192050 FIT• with low demand rate according to SN 3192050 FIT• with low demand rate according to SN 3192050 FIT	- finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
• for main contacts with screw-type terminals0.8 1.2 N·mdesign of screwdriver shaftDiameter 5 to 6 mmsize of the screwdriver tipPozidriv size 2design of the thread of the connection screwM3• for main contactsM3Safety related data5000B10 value5000• with high demand rate according to SN 319205000• with high demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 FIT• with low demand rate according to SN 3192050 FIT• with low demand rate according to SN 3192050 FIT	<ul> <li>for AWG cables for main contacts</li> </ul>	2x (18 14), 2x 12
design of screwdriver shaftDiameter 5 to 6 mmsize of the screwdriver tipPozidriv size 2design of the thread of the connection screwPozidriv size 2o for main contactsM3Safety related dataSafety related dataB10 value5 000o with high demand rate according to SN 319205 000proportion of dangerous failures50 %o with how demand rate according to SN 3192050 %failure rate [FIT]50 %o with how demand rate according to SN 3192050 FITT1 value for proof test interval or service life according to IEC10 a	tightening torque	
size of the screwdriver tip       Pozidriv size 2         design of the thread of the connection screw       M3         o for main contacts       M3         Safety related data       5000         B10 value       5000         o with high demand rate according to SN 31920       5000         proportion of dangerous failures       50%         with low demand rate according to SN 31920       50 %         failure rate [FIT]       50 %         o with how demand rate according to SN 31920       50 FIT         T1 value for proof test interval or service life according to IEC       10 a	<ul> <li>for main contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
design of the thread of the connection screw       M3         a for main contacts       M3         Safety related data       E10 value         a with high demand rate according to SN 31920       5 000         proportion of dangerous failures       50 %         a with high demand rate according to SN 31920       50 %         b with high demand rate according to SN 31920       50 %         a with high demand rate according to SN 31920       50 %         b with high demand rate according to SN 31920       50 %         failure rate [FIT]       50 FIT         b with how demand rate according to SN 31920       50 FIT         T1 value for proof test interval or service life according to IEC       10 a	design of screwdriver shaft	Diameter 5 to 6 mm
• for main contacts       M3         Safety related data       Image: Safety related data         B10 value       5 000         • with high demand rate according to SN 31920       5 000         proportion of dangerous failures       50 %         • with low demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         failure rate [FIT]       50 %         • with low demand rate according to SN 31920       50 FIT         T1 value for proof test interval or service life according to IEC       10 a	size of the screwdriver tip	Pozidriv size 2
Safety related data         B10 value         • with high demand rate according to SN 31920         5 000         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 high demand rate according to SN 31920         • with low demand rate according to SN 31920         50 FIT         11 value for proof test interval or service life according to IEC         10 a	design of the thread of the connection screw	
B10 value       5 000         • with high demand rate according to SN 31920       5 000         proportion of dangerous failures       50 %         • with low demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         failure rate [FIT]       50 %         • with low demand rate according to SN 31920       50 FIT         T1 value for proof test interval or service life according to IEC       10 a	• for main contacts	M3
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• with low demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       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       10 a		
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T1 value for proof test interval or service life according to IEC 10 a		50 FIT
	T1 value for proof test interval or service life according to IEC	
protection class IP on the front according to IEC 60529 IP20		IP20

touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front						
display version for switching status Handle						
Approvals Certificates General Product App	roval				For use in hazard- ous locations	
<u>Confirmation</u>			KC	EHC	ATEX	
For use in hazard- ous locations	Declaration of Confo	rmity	Test Certificates		Marine / Shipping	
IECEx	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	ABS	
Marine / Shipping					other	
BUREAU VERITAS		Lloyds Register uis	PRS	RINA	Household and similar appliances	
other		Railway		Environment		
<u>Confirmation</u>		Vibration and Shock	<u>Confirmation</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						

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=3RV2011-1HA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1HA10

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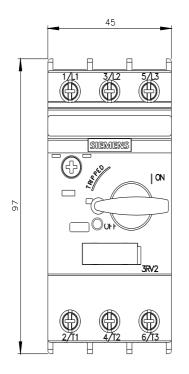
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

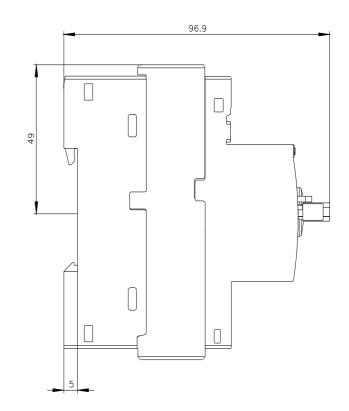
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-1HA10&lang=en

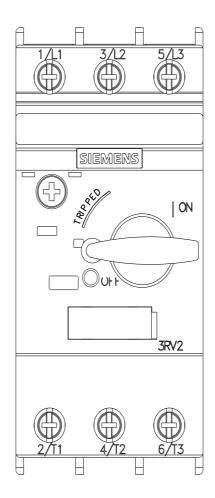
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

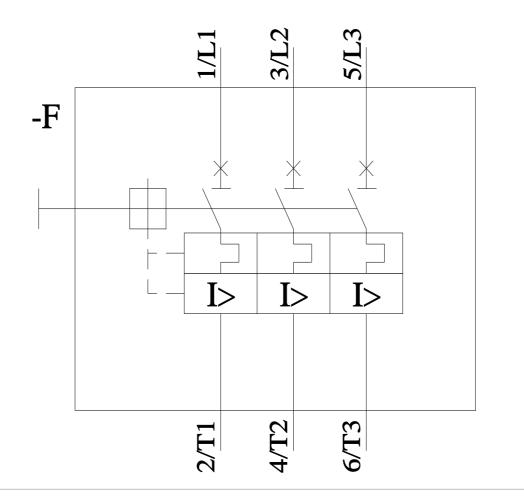
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1HA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1HA10&objecttype=14&gridview=view1









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