## SIEMENS

## Data sheet

## 3RV2011-1JA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 7...10 A N release 130 A screw terminal Standard switching capacity

4/17 6/15	
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	
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	7 10 A
operating voltage	
rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
• at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	10 A

operational current	
• at AC-3 at 400 V rated value	10 A
• at AC-3e at 400 V rated value	10 A
operating power	
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 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	
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)	400 14
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
the at AC at 690 V rated value     operating short-circuit current breaking capacity (Ics) at AC	6 kA
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	130 A
UL/CSA ratings	100 A
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	10 A
at 600 V rated value	10 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	1.5 hp
• for 3-phase AC motor	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	10 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link for IT network for short-circuit	
protection of the main circuit	
• at 400 V	gL/gG 50 A
● at 500 V	gL/gG 40 A
• at 690 V	gL/gG 40 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- downwards30 mm- downwards30 mm- downwards30 mm- downwards30 mm- downwards50 mm- downards50 mm-						
- 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     0 mm       - forwards     50 mm       - forwards     0 mm       - downwards     50 mm       - downwards     50 mm       - forwards     0 mm       - backwards     0 mm       - downwards     50 mm       - backwards     0 mm       - formal notates     second       - formal notates     2x (0.75 2.5 mm²) 2x 4 mn²       - forly is ordanded     2x (0.75 2.5 mm²) 2x 4 mn²       - forly is ordanded     2x (0.75 2.5 mm²) 2x 4 mn²       - forly ist		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       - upwards     50 mm       - upwards     50 mm       - downwards     50 mm       - towards     2 mothotohom </td <td></td> <td>30 mm</td>		30 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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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%         o with high 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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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		<b>C 60529</b> finge	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	<b>Ex</b> ATEX		
For use in hazard- ous locations	Declaration of Confo	rmity	Test Certificates		Marine / Shipping		
IECEx	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS		
Marine / Shipping					other		
BUREAU VERITAS		Lloyd's Register urs	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							
Information- and Downloadcenter (Catalogs Brochures )							

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=3RV2011-1JA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1JA10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1JA10

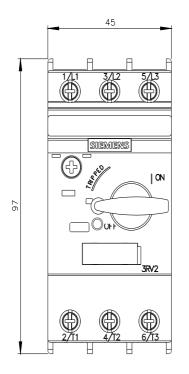
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

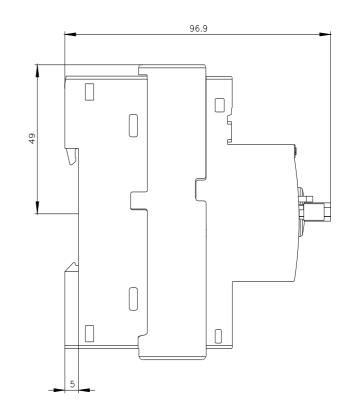
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-1JA10&lang=en

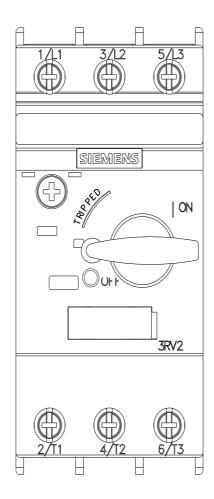
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1JA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1JA10&objecttype=14&gridview=view1

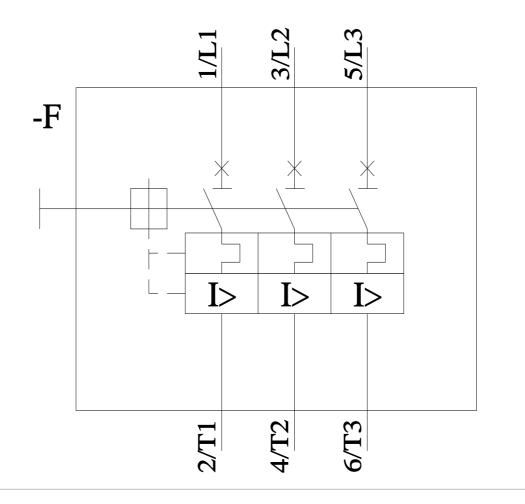






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