## **SIEMENS**

Product data sheet 3RV2011-0GA10



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.45...0.63A, N-RELEASE8.2A SCREW CONNECTION, STANDARD SW. CAPACITY

General technical data:				
product brand name	SIRIUS			
Product designation		3RV2 circuit breaker		
Size of the circuit-breaker		S00		
Number of poles / for main current circuit		3		
Product function				
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>		No		
overload protection		Yes		
phase disturbance recognition		Yes		
short-circuit to earth recognition		No		
Product component				
auxiliary switch		No		
undervoltage release mechanism		No		
trip indicator		No		
Product extension				
auxiliary switch		Yes		
optional / motor drive		No		
Impulse voltage resistance / rated value	kV	6		
Protection class IP / on the front		IP20		
Protection against electrical shock		finger-safe		

Ambient temperature  • during stroage  • during stroage  • during stroage  • C	Installation altitude / at a height over sea level / maximum	m	2,000		
turing storage turing perating turing operating turing turing operating turing turing operating turing turing operating oper					
- during storage - during operating - C - 20 +80  Active power loss / total / typical  Main circuit:  Operating vortage / rated value  Service power / at AC-3 - at 400 V / rated value - at 690 V / rated value - at 69	·	°C	-50 +80		
Active power loss / total / typical   W   5    Main circut:  Operating voltage / rated value   V   690    Service power / at AC-3    - at 400 V / rated value   W   180    - at 590 V / rated value   W   250    Operating current / at AC-3 / at 400 V / rated value   W   250    Operating current / at AC-3 / at 400 V / rated value   A   0.63    Machanical operating cycles as operating time / of the main contacts / typical   The following contacts / typical    Frequency of operation / with AC-3 / maximum   1/h   15    Auxiliary circuit:  Number of changeover contacts / for auxiliary contacts   0    Mechanical operating cycles as operating time / of the auxiliary contacts / typical    Protection function:  Trip class   CLASS 10    Adjustable response current / of the current-dependent overload release   CLASS 10    Adjustable response current / of the current-dependent overload release   A   0.45 0.63    Safety:  Proportion of dangerous failures    - with high demand rate / according to SN 31920   %   40    - with low demand rate / according to SN 31920   %   40    Failure rate [FIT] / with low demand rate / according to SN 31920   FIT   50    B10 value / with high demand rate / according to SN 31920   50,000    Tri value / for proof test interval or service life / according to IEC    61508   FIT   So    B10 value / with high demand rate / according to SN 31920   50,000    Tri value / for proof test interval or service life / according to IEC    61508   Serve wand snap-on mounting onto 35 mm standard mounting type    mounting position   any    Depth   mm   96	during storage	°C			
Operating voltage / rated value  Operating voltage / rated value  **at 400 V / rated value  **at 690 V / rated value  **Operating current / at AC-3 / at 400 V / rated value  **Mechanical operating cycles as operating time / of the main contacts / typical  Frequency of operation / with AC-3 / maximum  **I/h** 15  **Auxiliary circuit:  Number of changeover contacts / for auxiliary contacts  **Mechanical operating cycles as operating time / of the auxiliary contacts / typical  **Protection function:  **Trip class**  Adjustable response current / of the current-dependent overload release  **Safety:*  **Proportion of dangerous failures**  **with high demand rate / according to SN 31920  **with low demand rate / according to SN 31920  **with low demand rate / according to SN 31920  **with low demand rate / according to SN 31920  **with low demand rate / according to SN 31920  **With ligh demand rate / according to SN 31920  **With ligh demand rate / according to SN 31920  **Justice / for proof test interval or service life / according to IEC along	during operating	°C			
Operating voltage / rated value  Service power / at AC-3  - at 400 V / rated value - at 590 V / rated value - at 690 V / rated value - A 0.63  Mechanical operating cycles as operating time / of the main contacts / typical  Frequency of operation / with AC-3 / maximum - 1/h - 15  Auxiliary circuit:  Number of changeover contacts / for auxiliary contacts - Nectantical operating cycles as operating time / of the auxiliary contacts / typical  Protection function:  Trip class - Adjustable response current / of the current-dependent overload release  Safety:  Proportion of dangerous failures - with high demand rate / according to SN 31920 - with low demand rate / according to SN 31920 - with low demand rate / according to SN 31920 - with low demand rate / according to SN 31920 - Til value / with high demand rate / according to SN 31920  Til value / for proof test interval or service life / according to IEC 1508  Installation/mounting/dimensions:  Mounting type - screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 - mounting position - popping in mm 96	Active power loss / total / typical	W	5		
Service power 1 at AC-3  - at 400 V / rated value  - at 500 V / rated value  - at 690 V / rated value  - A	Main circuit:				
- at 400 V / rated value  - at 500 V / rated value  - at 690 V / rated value  - at 690 V / rated value  - at 690 V / rated value  - A	Operating voltage / rated value	V	690		
- at 500 V / rated value  - at 690 V / rated value  Operating current / at AC-3 / at 400 V / rated value  A 0.63  Mechanical operating cycles as operating time / of the main contacts / typical  Frequency of operation / with AC-3 / maximum  1/h  15  Auxillary circuit:  Number of changeover contacts / for auxillary contacts  Mechanical operating cycles as operating time / of the auxillary contacts / typical  Mechanical operating cycles as operating time / of the auxillary contacts / typical  Protection function:  Trip class  Adjustable response current / of the current-dependent overload release  Safety:  Proportion of dangerous failures  - 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  Installation/mounting/dimensions:  Mounting type  mm 96	Service power / at AC-3				
- at 690 V / rated value  Operating current / at AC-3 / at 400 V / rated value  A 0.63  Mechanical operating cycles as operating time / of the main contacts / typical  Frequency of operation / with AC-3 / maximum  1/h 16  Auxiliary circuit:  Number of changeover contacts / for auxiliary contacts  Mechanical operating cycles as operating time / of the auxiliary contacts / typical  Protection function:  Trip class  Adjustable response current / of the current-dependent overload release  Safety:  Proportion of dangerous failures  - 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  Tri value / for proof test interval or service life / according to IEC 61508  Installation/mounting/dimensions:  Mounting type  serew and snap-on mounting onto 35 mm standard mounting position  popth  mm 96	at 400 V / rated value	W	180		
Operating current / at AC-3 / at 400 V / rated value  Mechanical operating cycles as operating time / of the main contacts / typical  Frequency of operation / with AC-3 / maximum  1/h  15  Auxiliary circuit:  Number of changeover contacts / for auxiliary contacts  Mechanical operating cycles as operating time / of the auxiliary contacts / typical  Protection function:  Trip class  CLASS 10  Adjustable response current / of the current-dependent overload release  Safety:  Proportion of dangerous failures  • 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  Flow value / with high demand rate / according to SN 31920  To value / with high demand rate / according to SN 31920  To value / for proof test interval or service life / according to IEC 61508  Installation/mounting/dimensions:  Mounting type  screw and snap-on mounting onto 35 mm standard mounting position  any  Depth  mm 96	at 500 V / rated value	W	180		
Mechanical operating cycles as operating time / of the main contacts / typical  Frequency of operation / with AC-3 / maximum  1/h  15  Auxiliary circuit:  Number of changeover contacts / for auxiliary contacts  Mechanical operating cycles as operating time / of the auxiliary contacts / typical  Protection function:  Trip class  CLASS 10  Adjustable response current / of the current-dependent overload release  Safety:  Proportion of dangerous failures  • 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  For proof test interval or service life / according to IEC 61508  Installation/mounting/dimensions:  Mounting type  screw and snap-on mounting onto 35 mm standard mounting position  popth  mm 96	at 690 V / rated value	W	250		
Frequency of operation / with AC-3 / maximum  1/h  15  Auxiliary circuit:  Number of changeover contacts / for auxiliary contacts  Mechanical operating cycles as operating time / of the auxiliary contacts / typical  Protection function:  Trip class  Adjustable response current / of the current-dependent overload release  Safety:  Proportion of dangerous failures  • 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  Tri value / with high demand rate / according to SN 31920  Tri value / for proof test interval or service life / according to IEC e1508  Installation/mounting/dimensions:  Mounting type  mm 96	Operating current / at AC-3 / at 400 V / rated value	Α	0.63		
Auxiliary circuit:  Number of changeover contacts / for auxiliary contacts  Mechanical operating cycles as operating time / of the auxiliary contacts / typical  Protection function:  Trip class  CLASS 10  Adjustable response current / of the current-dependent overload release  Safety:  Proportion of dangerous failures  • 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  Installation/mounting/dimensions:  Mounting type  screw and snap-on mounting onto 35 mm standard mounting position  pepth  mm 96			100,000		
Number of changeover contacts / for auxiliary contacts  Mechanical operating cycles as operating time / of the auxiliary contacts / typical  Protection function:  Trip class  Adjustable response current / of the current-dependent overload release  Safety:  Proportion of dangerous failures  • 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  Failure rate [FIT] / with low demand rate / according to SN 31920  To value / for proof test interval or service life / according to IEC 61508  Installation/mounting/dimensions:  Mounting type  screw and snap-on mounting onto 35 mm standard mounting position  mounting position  mm 96	Frequency of operation / with AC-3 / maximum	1/h	15		
Mechanical operating cycles as operating time / of the auxiliary contacts / typical  Protection function:  Trip class  Adjustable response current / of the current-dependent overload release  Safety:  Proportion of dangerous failures  • 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  Failure rate [FIT] / with high demand rate / according to SN 31920  T1 value / for proof test interval or service life / according to IEC 61508  Installation/mounting/dimensions:  Mounting type  screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  mounting position  pepth  mm 96	Auxiliary circuit:				
Protection function:  Trip class  Adjustable response current / of the current-dependent overload release  Safety:  Proportion of dangerous failures  • 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  Filt 50  B10 value / with high demand rate / according to SN 31920  T1 value / for proof test interval or service life / according to IEC 61508  Installation/mounting/dimensions:  Mounting type  screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  mounting position  Depth  mm 96	Number of changeover contacts / for auxiliary contacts		0		
Trip class  Adjustable response current / of the current-dependent overload release  Safety:  Proportion of dangerous failures  • 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  B10 value / with high demand rate / according to SN 31920  F1T 50  B10 value / for proof test interval or service life / according to IEC 61508  Installation/mounting/dimensions:  Mounting type  Screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  mounting position  Depth  mm 96			100,000		
Adjustable response current / of the current-dependent overload release  Safety:  Proportion of dangerous failures  • 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  B10 value / with high demand rate / according to SN 31920  F1T 50  B10 value / for proof test interval or service life / according to IEC 61508  Installation/mounting/dimensions:  Mounting type  screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  mounting position  pepth  mm 96	Protection function:				
Safety:  Proportion of dangerous failures  • 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  B10 value / with high demand rate / according to SN 31920  FIT 50  B10 value / with high demand rate / according to SN 31920  T1 value / for proof test interval or service life / according to IEC 61508  Installation/mounting/dimensions:  Mounting type  screw and snap-on mounting onto 35 mm standard mounting position  any  Depth  mm 96	Trip class		CLASS 10		
Proportion of dangerous failures  • 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  B10 value / with high demand rate / according to SN 31920  T1 value / for proof test interval or service life / according to IEC 61508  Installation/mounting/dimensions:  Mounting type  screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  mounting position  pepth  mm  96		А	0.45 0.63		
<ul> <li>with high demand rate / according to SN 31920</li> <li>with low demand rate / according to SN 31920</li> <li># 40</li> <li>Failure rate [FIT] / with low demand rate / according to SN 31920</li> <li>B10 value / with high demand rate / according to SN 31920</li> <li>T1 value / for proof test interval or service life / according to IEC 61508</li> <li>Installation/mounting/dimensions:</li> <li>Mounting type</li> <li>screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715</li> <li>mounting position</li> <li>mm</li> <li>96</li> </ul>	Safety:				
• with low demand rate / according to SN 31920  % 40  Failure rate [FIT] / with low demand rate / according to SN 31920  FIT 50  B10 value / with high demand rate / according to SN 31920  50,000  T1 value / for proof test interval or service life / according to IEC 61508  10  Installation/mounting/dimensions:  Mounting type	Proportion of dangerous failures				
Failure rate [FIT] / with low demand rate / according to SN 31920  B10 value / with high demand rate / according to SN 31920  T1 value / for proof test interval or service life / according to IEC 61508  Installation/mounting/dimensions:  Mounting type  screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  mounting position  pepth  mm  96	with high demand rate / according to SN 31920	%	40		
B10 value / with high demand rate / according to SN 31920  T1 value / for proof test interval or service life / according to IEC 61508  Installation/mounting/dimensions:  Mounting type  screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  mounting position  any  Depth  mm 96	<ul> <li>with low demand rate / according to SN 31920</li> </ul>	%	40		
T1 value / for proof test interval or service life / according to IEC 61508  Installation/mounting/dimensions:  Mounting type screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  mounting position any  Depth mm 96	Failure rate [FIT] / with low demand rate / according to SN 31920	FIT	50		
Installation/mounting/dimensions:  Mounting type  screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  mounting position  any  Depth  mm 96	B10 value / with high demand rate / according to SN 31920		50,000		
Mounting type  screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  mounting position  any  Depth  mm 96		а	10		
mounting position mounting rail according to DIN EN 60715  any  Depth mm 96	Installation/mounting/dimensions:				
Depth 96	Mounting type				
	mounting position		any		
Height 97	Depth	mm	96		
	Height	mm	97		

Width	mm	45
Connections:		

Connections:		
Arrangement of electrical connectors / for main current circuit	Top and bottom	
Design of the electrical connection		
for main current circuit		screw-type terminals
Type of the connectable conductor cross-section		
• for main contacts		
• finely stranded		
<ul> <li>with conductor end processing</li> </ul>		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
• for AWG conductors / for main contacts		2x (18 14), 2x 12

UL/CSA ratings:		
Full-load current (FLA) / for 3-phase motor		
• at 480 V / rated value	Α	0.63
• at 600 V / rated value	Α	0.63

## Certificates/approvals:

General Product Approval	Declaration of	Test Certificates
	Conformity	









Special Test Certificate

Type Test
Certificates/Test
Report

## **Shipping Approval**













**Shipping Approval** 







other

Environmental Confirmations

## **Further information:**

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrial-controls/mall

Cax online generator:

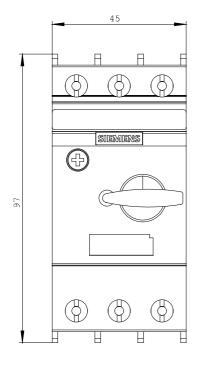
http://www.siemens.com/cax

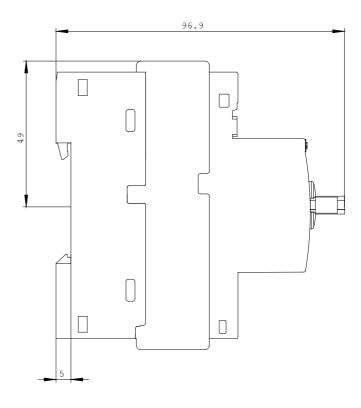
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

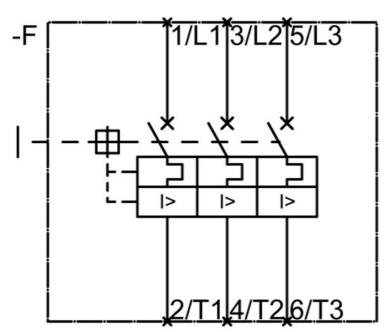
http://support.automation.siemens.com/WW/view/en/3RV2011-0GA10/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RV2011-0GA10}$ 







last change: Jun 16, 2014