# **SIEMENS**

## hoja de datos del producto

3RV2011-0GA15



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.45...0.63A, N-RELEASE8.2A SCREW CONNECTION, STANDARD SW. CAPACITY, W. TRANSVERSE AUX. SWITCH 1NO+1NC

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			
short circuit protection	Yes		
overload protection	Yes		
phase disturbance recognition	Yes		
• plant protection	Yes		
motor protection	Yes		
<ul> <li>motor protection with relais overload functionality</li> </ul>	No		
• starter protection	No		
transformer protection	No		
disconnector functionality	Yes		
<ul> <li>main control switches with supply disconnect function and EM- STOP switches</li> </ul>	No		
Design of the operating mechanism	selector switch		
Product component			
auxiliary switch	Yes		
undervoltage release mechanism	No		

Product extension  - audilary switch - cyclional / motor drive  Insulation voltage / with degree of politation 3 / rated value    Ves   Resolution   Protection class   P	trip indicator		No
• optional / motor drive   No	Product extension		
Insulation voltage / with degree of poliution 3 / rated value	auxiliary switch		Yes
Impulse voltage resistance / rated value  Protection class IP  of the terminal on the front  IP20  Protection against electrical shock Installation altitude / at a height over sea level / maximum  Relative humidity during operating phase  Ambient temperature  oduring transport during storage during operating  Shock resistance / according to IEC 60068-2-27  Usage category during storage during	optional / motor drive		No
Protection class IP  of the terminal on the front  Protection against electrical shock Installation altitude / at a height over sea level / maximum  Relative humidity during operating phase  Ambient temperature  during transport during storage during operating storage during operating to IEC 60068-2-27  Shock resistance / according to IEC 60068-2-27  Usage category according to IEC 60047-4-1  Active power loss / total / typical  Main circuit:  Derating voltage / rated value  Voltage type / for main circuit  Operating frequency rated value  Departing current / at AC-3 / at 400 V / rated value  Design of the fuse link / for short-circuit protection of the auxiliary switch / required  Protective and monitoring functions:  Type of protection  Varification of suitability / ATEX  Design of the overload circuit breaker  Adius able response current / of the current-dependent overload release  Trip class  CLASS 10  Lass 10  Protective and monitoricuit of the current-dependent overload release  Trip class  CLASS 10	Insulation voltage / with degree of pollution 3 / rated value	V	690
• of the terminal         IP20           • on the front         IP20           Protection against electrical shock         finger-safe           Installation altitude/ at a height over sea level / maximum         m         2,000           Relative humidity	Impulse voltage resistance / rated value	kV	6
• on the front IP20  Protection against electrical shock Installation altitude / at a height over sea level / maximum m 2,000  Relative humidity • during operating phase Modern temperature • during transport °C -50 +80 • during transport °C -50 +80 • during operating Storage °C -50 +80 • during operating to IEC 60068-2-27 25g / 11 ms  Usage category • according to IEC 60047-4-1 AC:3  Active power loss / total / typical W 5  Main circuit:  Operating voltage / rated value V 690  Voltage type / for main circuit Operating circuit protection of the auxiliary switch / required  Hit Storage of the fuse link / for short-circuit protection of the auxiliary switch / required  Varification of suitability / ATEX Pesign of the overload circuit breaker Adjustable response current / of the current-dependent overload release  Tip class  Tip class  Tip class	Protection class IP		
Protection against electrical shock Installation altitude / at a height over sea level / maximum  Relative humidity • during operating phase  Ambient temperature • during transport • during storage • during operating  Shock resistance / according to IEC 60068-2-27  Usage category • according to IEC 60068-2-27  Usage category • according to IEC 60068-2-27  W 5  Main circuit:  Operating voltage / rated value  V 690  Voltage type / for main circuit  Operating frequency • rated value  AC-3 / AC/DC  Operating current / at AC-3 / at 400 V / rated value  A 0.63  Hilfsstromkreis  Design of the fuse link / for short-circuit protection of the auxiliary switch / required  Protective and monitoring functions:  Type of protection  Varification of suitability / ATEX  Design of the overload circuit breaker  Adjustable response current / of the current-dependent overload release  Trip class  Tip class  Tip class  Tip class	of the terminal		IP20
Installation altitude / at a height over sea level / maximum m 2,000  Relative humidity  • during operating phase % 10 95  Ambient temperature  • during transport °C 50 +80  • during transport °C 50 +80  • during storage °C 50 +80  • during operating recording to IEC 60068-2-27 25g / 11 ms  Usage category  • according to IEC 60947-4-1 AC-3  Active power loss / total / typical W 5  Main circuit:  Operating voltage / rated value V 690  Voltage type / for main circuit AC/DC  Operating frequency  • rated value Hz 50 60  Operating current / at AC-3 / at 400 V / rated value A 0.63  Posign of the fuse link / for short-circuit protection of the auxiliary switch / required (short-circuit protection of the auxiliary switch / required Increased safety  Variffication of suitability / ATEX  Design of the overload circuit breaker Adjustable response current / of the current-dependent overload circuit breaker  Adjustable response current / of the current-dependent overload release  Trip class  CLASS 10	• on the front		IP20
Relative humidity  • during operating phase  Ambient temperature  • during transport  • during storage  • during operating  **C	Protection against electrical shock		finger-safe
* during operating phase  Ambient temperature  • during transport  • during storage  • during operating  **C	Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature  • during transport  • during storage  • during operating  **C	Relative humidity		
<pre>• during transport • during storage • during operating  ***C</pre>	during operating phase	%	10 95
* during storage     *during operating  **C    -50 +80  **Shock resistance / according to IEC 60068-2-27  **Usage category     **according to IEC 60947-4-1  **Active power loss / total / typical  **Main circuit:  **Operating voltage / rated value  **Voltage type / for main circuit  **Operating frequency     **rated value  **Protective and monitoring functions:  Type of protection  **Variation of suitability / ATEX  **Design of the overload circuit breaker  **Adjustable response current / of the current-dependent overload release  **Trip class  **C    -50 +80  -50 +80  -50 +80  -60 +80  **Ac-3  *	Ambient temperature		
*during operating **C	during transport	°C	-50 +80
Shock resistance / according to IEC 60068-2-27  Usage category	during storage	°C	-50 +80
Usage category  * according to IEC 60947-4-1  Active power loss / total / typical  Main circuit:  Operating voltage / rated value  V 690  Voltage type / for main circuit  Operating frequency  * rated value  Hz 50 60  Operating current / at AC-3 / at 400 V / rated value  A 0.63  Hilfsstromkreis  Design of the fuse link / for short-circuit protection of the auxiliary switch / required  Protective and monitoring functions:  Type of protection  Varification of suitability / ATEX  Design of the overload circuit breaker  Adjustable response current / of the current-dependent overload release  Trip class  A C-3  AC-3  AC-2  AC-3  AC-B  A	during operating	°C	-20 +60
* according to IEC 60947-4-1     Active power loss / total / typical  Main circuit:  Operating voltage / rated value  V 690  Voltage type / for main circuit  Operating frequency     * rated value  Hz 50 60  Operating current / at AC-3 / at 400 V / rated value  A 0.63  Hilfsstromkreis  Design of the fuse link / for short-circuit protection of the auxiliary switch / required  Protective and monitoring functions:  Type of protection  V 690  Hz 50 60  Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)  Protective and monitoring functions:  Type of protection  Increased safety  Ves  Design of the overload circuit breaker  Adjustable response current / of the current-dependent overload release  Trip class  CLASS 10	Shock resistance / according to IEC 60068-2-27		25g / 11 ms
Active power loss / total / typical  Main circuit:  Operating voltage / rated value  V 690  Voltage type / for main circuit  Operating frequency  • rated value  Hz 50 60  Operating current / at AC-3 / at 400 V / rated value  A 0.63  Hilfsstromkreis  Design of the fuse link / for short-circuit protection of the auxiliary switch / required  Protective and monitoring functions:  Type of protection  Varification of suitability / ATEX  Design of the overload circuit breaker  Adjustable response current / of the current-dependent overload release  Trip class  CLASS 10	Usage category		
Main circuit:  Operating voltage / rated value  V 690  Voltage type / for main circuit  Operating frequency • rated value  Hz 50 60  Operating current / at AC-3 / at 400 V / rated value  A 0.63  Hilfsstromkreis  Design of the fuse link / for short-circuit protection of the auxiliary switch / required  Protective and monitoring functions:  Type of protection  Varification of suitability / ATEX  Design of the overload circuit breaker  Adjustable response current / of the current-dependent overload release  Trip class  CLASS 10	according to IEC 60947-4-1		AC-3
Operating voltage / rated value  Voltage type / for main circuit  Operating frequency  * rated value  Hz  50 60  Operating current / at AC-3 / at 400 V / rated value  A  Oberating current / at AC-3 / at 400 V / rated value  A  Oberating current / at AC-3 / at 400 V / rated value  A  Oberating current / at AC-3 / at 400 V / rated value  A  Oberating current / at AC-3 / at 400 V / rated value  A  Oberating current / at AC-3 / at 400 V / rated value  A  Oberating current / at AC-3 / at 400 V / rated value  A  Oberating current / at AC-3 / at 400 V / rated value  A  Oberating current / at AC-3 / at 400 V / rated value  Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)  Protective and monitoring functions:  Type of protection  Increased safety  Yes  Design of the overload circuit breaker  Adjustable response current / of the current-dependent overload release  Trip class  CLASS 10	Active power loss / total / typical	W	5
Voltage type / for main circuit  Operating frequency  • rated value  Hz 50 60  Operating current / at AC-3 / at 400 V / rated value  A 0.63  Hilfsstromkreis  Design of the fuse link / for short-circuit protection of the auxiliary switch / required  Protective and monitoring functions:  Type of protection  Varification of suitability / ATEX  Design of the overload circuit breaker  Adjustable response current / of the current-dependent overload release  Trip class  AC/DC  AC/CO	Main circuit:		
Operating frequency	Operating voltage / rated value	V	690
• rated value	Voltage type / for main circuit		AC/DC
Operating current / at AC-3 / at 400 V / rated value  A 0.63  Hilfsstromkreis  Design of the fuse link / for short-circuit protection of the auxiliary switch / required  Protective and monitoring functions:  Type of protection  Varification of suitability / ATEX  Design of the overload circuit breaker  Adjustable response current / of the current-dependent overload release  Trip class  A 0.63   O.63  CLASS 10	Operating frequency		
Hilfsstromkreis  Design of the fuse link / for short-circuit protection of the auxiliary switch / required  Protective and monitoring functions:  Type of protection  Increased safety  Varification of suitability / ATEX  Design of the overload circuit breaker  Adjustable response current / of the current-dependent overload release  Trip class  CLASS 10	• rated value	Hz	50 60
Design of the fuse link / for short-circuit protection of the auxiliary switch / required  Protective and monitoring functions:  Type of protection  Increased safety  Varification of suitability / ATEX  Design of the overload circuit breaker  Adjustable response current / of the current-dependent overload release  Trip class  Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)  Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)  Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)  Increased safety  Yes  CLASS 10	Operating current / at AC-3 / at 400 V / rated value	А	0.63
auxiliary switch / required (short-circuit current lk < 400 A)  Protective and monitoring functions:  Type of protection Increased safety  Varification of suitability / ATEX Yes  Design of the overload circuit breaker thermal  Adjustable response current / of the current-dependent overload release  Trip class CLASS 10	Hilfsstromkreis		
Type of protection  Varification of suitability / ATEX  Pesign of the overload circuit breaker  Adjustable response current / of the current-dependent overload release  Trip class  Increased safety  Yes  thermal  A 0.45 0.63  CLASS 10			
Varification of suitability / ATEX  Design of the overload circuit breaker  Adjustable response current / of the current-dependent overload release  Trip class  Yes  thermal  A 0.45 0.63  CLASS 10	Protective and monitoring functions:		
Design of the overload circuit breaker thermal  Adjustable response current / of the current-dependent overload release  Trip class thermal thermal 0.45 0.63  CLASS 10	Type of protection		Increased safety
Adjustable response current / of the current-dependent overload release  Trip class  A 0.45 0.63  CLASS 10	Varification of suitability / ATEX		Yes
overload release  Trip class  CLASS 10	Design of the overload circuit breaker		thermal
·		Α	0.45 0.63
Design of the short-circuit trip magnetic	Trip class		CLASS 10
	Design of the short-circuit trip		magnetic

Current response value / of the instantaneous short-circuit trip	Α	8.2
Operational short-circuit current breaking capacity (lcs) / with AC		
• at 240 V / rated value	kA	100
• at 400 V / rated value	kA	100
• at 500 V / rated value	kA	100
• at 690 V / rated value	kA	100
Breaking capacity maximum short-circuit current (Icu)		
• at 240 V / for AC / rated value	kA	100
• at 400 V / for AC / rated value	kA	100
• at 500 V / for AC / rated value	kA	100
• at 690 V / for AC / rated value	kA	100
Design of fuse insert / for IT network / for short-circuit protection of the main circuit		
• at 690 V		gL/gG 6 A
Breaking capacity short-circuit current (lcn)		
• with 1 current path / at 150 V / for DC / rated value	kA	10
• with 2 current paths in series / at 300 V / for DC / rated value	kA	10
• with 3 current paths in series / at 450 V / for DC / rated value	kA	10

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	
Height	mm	97	
Width	mm	45	

Connections/ terminals:	
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	
• solid or multi-stranded	2x (0,75 2,5 mm²), 2x 4 mm²
• 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
Design of the electrical connection / for auxiliary and control current circuit	screw-type terminals
Type of the connectable conductor cross-section	
for auxiliary contacts	
solid or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)

• finely stranded

• with conductor end processing

• for AWG conductors / for auxiliary contacts

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) 2x (20 ... 16), 2x (18 ... 14)

UL/CSA ratings:			
Operating voltage / according to UL 60947 / rated value	V	600	
Full-load current (FLA) / for 3-phase motor			
• at 480 V / rated value	Α	0.63	
• at 600 V / rated value	Α	0.63	
Contact rating designation / for auxiliary contacts / according to UL		C300 / R300	

#### **Certificates/ approvals:**

**General Product Approval** 

Declaration of Conformity

**Test Certificates** 







Special Test Certificate Type Test
Certificates/Test
Report

#### **Shipping Approval**









GL





**Shipping Approval** 





other



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/industrymall

Cax online generator

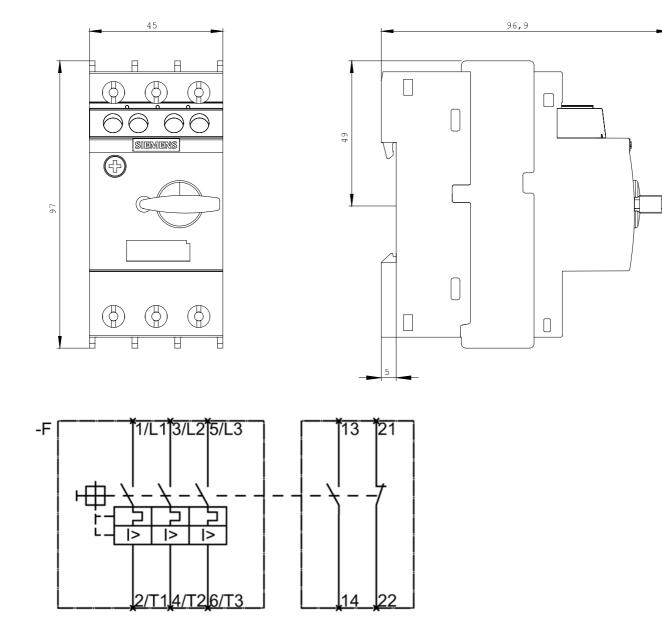
http://www.siemens.com/cax

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

http://support.automation.siemens.com/WW/view/en/3RV2011-0GA15/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RV2011-0GA15



last change: Aug 26, 2014