SIEMENS

hoja de datos del producto

3RV2011-1JA15



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 7...10A, N-RELEASE 130A, 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			
 motor protection with relais overload functionality 	No			
• starter protection	No			
transformer protection	No			
disconnector functionality	Yes			
 main control switches with supply disconnect function and EM- STOP switches 	No			
Design of the operating mechanism	selector switch			
Product component				
auxiliary switch	Yes			
undervoltage release mechanism	No			

Product extension - audilary switch - optional / motor drive Insulation voltage / with degree of politution 3 / rated value Impulse voltage resistance / rated value Impulse voltage resistance / rated value 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 storage - during storage - during storage - during storage - during operating to IEC 80088-2-27 Book resistance / according to IEC 80088-2-27 Lasge category - according to IEC 800847-4-1 Active power loss / total / typical Active power	trip indicator		No
Insulation voltage / with degree of pollution 3 / rated value Impulse voltage resistance / rated value Protection class IP	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 IP20 IP20 IP20 IP20 IP20 IP20 IP2	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 circuits Main circuits Operating requency rated value Operating frequency rated value Operating current / at AC-3 / at 400 V / rated value Protective and monitoring functions: Type of protection Varification of suitability / ATEX 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	Insulation voltage / with degree of pollution 3 / rated value	V	690
• of the terminal • on the front Protection against electrical shock Installation altitude / at a height over sea level / maximum Relative humidity • during operating phase • during pressport • during storage • 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 We are according to IEC 60068-2-27 Usage category • according to IEC 60068-2-27 We are according to IEC 60068-2-27 Usage category • according to IEC 600847-4-1 Active power loss / total / typical We are	Impulse voltage resistance / rated value	kV	6
• 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 • according to IEC 60068-2-27 Usage category • according to IEC 60047-4-1 Active power loss / total / typical W 8.7 Main circuit: Operating voltage / rated value V 680 Voltage type / for main circuit Operating frequency • rated value • HZ 50 60 Operating current / at AC-3 / at 400 V / rated value A 10 Hiffsstromkreis 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	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 operating • during operating • during operating • "C -50 +80 • during storage • "C -50 +80 • during operating • "C -20 +80 • AC-3 Shock resistance / according to IEC 60068-2-27 Usage category • according to IEC 60947-4-1 Active power loss / total / typical W 8.7 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 10 Hilfsstromkreis Design of the fuse link / for short-circuit protection of the auxiliary switch / required Fuse gL/gG: 10 A, ministure circuit breaker C 6 A (short-circuit current lk < 400 A) 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	of the terminal		IP20
Installation altitude / at a height over sea level / maximum m 2,000 Relative humidity	• 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		
 during transport during storage during operating C -50 +80 during operating C -20 +60 Shock resistance / according to IEC 60068-2-27 Usage category according to IEC 60947-4-1 AC-3 Active power loss / total / typical W 8.7 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 10 Hillfsstromkreis Protective and monitoring functions: Type of protection Increased safety Ves Usage current / of the overload circuit breaker Adjustable response current / of the current-dependent overload release Trip class CLASS 10 	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 **Value of protection **Value of protection **Protective and monitoring functions: **Type of protection **Value of protection **Value of protection **Value of protection **Increased safety **Yes **Design of the overload circuit breaker **Adjustable response current / of the current-dependent overload release **Trip class **C -50 +80 **-20 +80 **C -20 +80 **Ac-3 **Ac-C-C **Accive and and anticreit	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 W 8.7 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 Hz 50 60 Operating current / at AC-3 / at 400 V / rated value A 10 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	during operating	°C	-20 +60
* according to IEC 60947-4-1 Active power loss / total / typical W 8.7 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 10 Hilfsstromkreis Design of the fuse link / for short-circuit protection of the auxiliary switch / required Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A) 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	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 10 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 Hilfsstromkreis Design of the fuse link / for short-circuit protection of the auxiliary switch / required 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 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 Hz 50 60 Operating current / at AC-3 / at 400 V / rated value A 10 Hilfsstromkreis Design of the fuse link / for short-circuit protection of the auxiliary switch / required 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	Active power loss / total / typical	W	8.7
Voltage type / for main circuit Operating frequency • rated value Hz 50 60 Operating current / at AC-3 / at 400 V / rated value 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/CC	Main circuit:		
Operating frequency • rated value Operating current / at AC-3 / at 400 V / rated value A 10 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	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 10 Hilfsstromkreis Design of the fuse link / for short-circuit protection of the auxiliary switch / required 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 Varification of suitability / ATEX Design of the overload circuit breaker Adjustable response current / of the current-dependent overload release Trip class 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 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	10
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 7 10 CLASS 10			
Varification of suitability / ATEX Yes Design of the overload circuit breaker thermal Adjustable response current / of the current-dependent overload release A 7 10 Trip class 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 A 7 10 CLASS 10	Type of protection		Increased safety
Adjustable response current / of the current-dependent overload release Trip class A 7 10 CLASS 10	Varification of suitability / ATEX		Yes
overload release Trip class CLASS 10	Design of the overload circuit breaker		thermal
·		А	7 10
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	130
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	42
• at 690 V / rated value	kA	4
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	42
• at 690 V / for AC / rated value	kA	6
Design of fuse insert / 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
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
\bullet 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		

current circuit

• solid or multi-stranded

• with conductor end processing

Type of the connectable conductor cross-section

Design of the electrical connection / for auxiliary and control

• for AWG conductors / for main contacts

• finely stranded

2x (0,75 ... 2,5 mm²), 2x 4 mm²

2x (18 ... 14), 2x 12

screw-type terminals

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

- · for auxiliary contacts
 - solid or multi-stranded
 - 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 (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	10		
• at 600 V / rated value	Α	10		
Contact rating designation / for auxiliary contacts / according to UL		C300 / R300		

Certificates/ approvals:

General Product Approval









Declaration of

Test Certificates

Special Test Certificate Type Test
Certificates/Test
Report

Shipping Approval













Shipping Approval





other

Confirmation



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

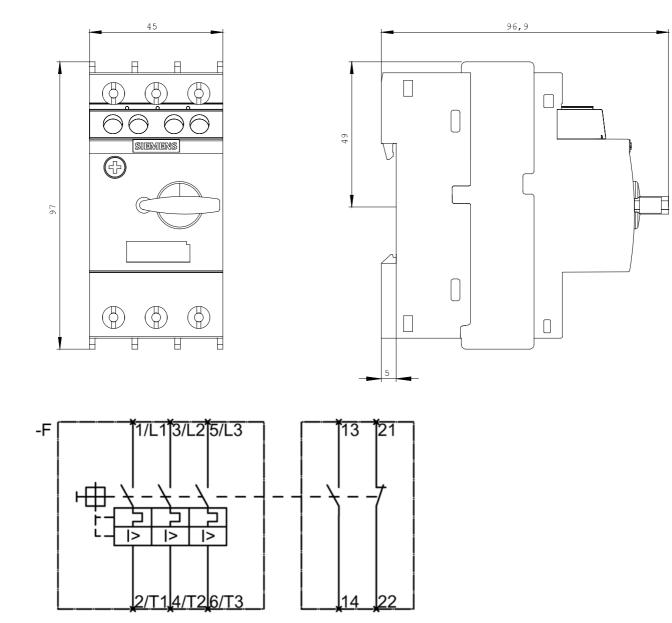
http://www.siemens.com/cax

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

http://support.automation.siemens.com/WW/view/en/3RV2011-1JA15/all

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

 $\underline{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1JA15}$



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