hoja de datos del producto



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.9...1.25A, N-RELEASE16A, 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 - cyclional / motor drive Insulation voltage / with degree of politation 3 / rated value Ves Resource Protection class IP IP20	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 *** 1095 Ambient temperature oduring transport during storage during operating ***C	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 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 Trip class CLASS 10 IP20 IP20 IP20 IP20 IP20 IP20 IP20 I	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 — — • during perating phase % 10 95 Ambient temperature — — • during storage • °C -50 +80 • during operating • °C -50 +80 • during operating operating • °C -50 +80 • during operating • °C -60	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 5.4 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 1.25 Hiffsstromkreis Design of the fuse link / for short-circuit protection of the auxiliary switch / required Varification of suitability / ATEX Yes Design of the overload circuit breaker Adjustable response current / of the current-dependent overload release Trip class Trip class 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 transport • during storage • during operating • d	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 °C .20 +60 Shock resistance / according to IEC 60068-2-27 25g / 11 ms Usage category • according to IEC 60947-4-1 AC-3 Active power loss / total / typical W 5.4 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 1.25 Design of the fuse link / for short-circuit protection of the auxiliary switch / required (short-circuit current lik < 400 A) Protective and monitoring functions: Type of protection Increased safety Variffication of suitability / ATEX Design of the 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 1.25 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-3 AC-2 AC-3 AC-3 AC-2 AC-B AC-3 AC-B 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 1.25 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 1.25 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 Hz 50 60 Thilfsstromkreis 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 1.25 Hilfsstromkreis Design of the fuse link / for short-circuit protection of the auxiliary switch / required Protective and monitoring functions: Type of protection Voltage type / for main circuit protection of the auxiliary switch / required 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	Active power loss / total / typical	W	5.4
Voltage type / for main circuit Operating frequency • rated value Hz 50 60 Operating current / at AC-3 / at 400 V / rated value A 1.25 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	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 1.25 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 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	1.25
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 0.9 1.25 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 0.9 1.25 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 A 0.9 1.25	Type of protection		Increased safety
Adjustable response current / of the current-dependent overload release Trip class A 0.9 1.25 CLASS 10	Varification of suitability / ATEX		Yes
overload release Trip class CLASS 10	Design of the overload circuit breaker		thermal
·		А	0.9 1.25
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	16
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 500 V		gL/gG 16 A
• at 690 V		gL/gG 16 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	
with conductor end processing	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
 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	1.25
• at 600 V / rated value	Α	1.25
Contact rating designation / for auxiliary contacts / according to UL		C300 / R300

Certificates/ approvals:

General Product Approval Declaration of Conformity Test Certificates











Type Test
Certificates/Test
Report

Shipping Approval













Shipping Approval







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

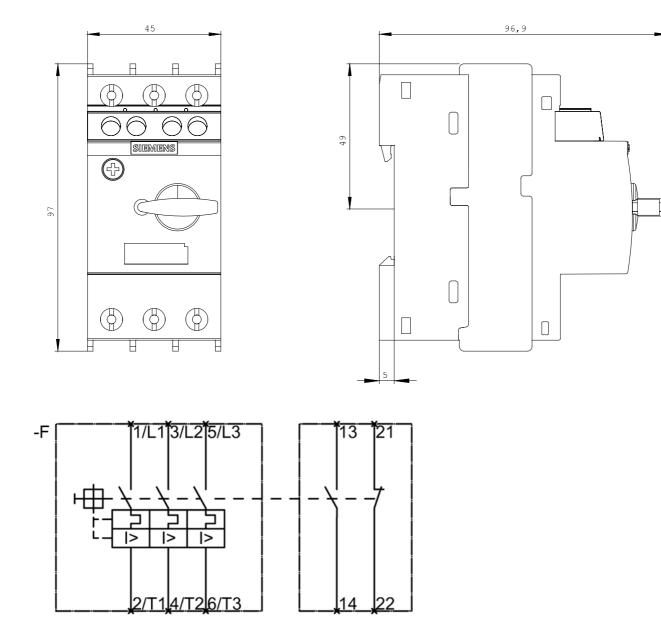
http://www.siemens.com/cax

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

http://support.automation.siemens.com/WW/view/en/3RV2011-0KA15/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-0KA15



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