SIEMENS

Product data sheet

3RV2011-0KA10



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.9...1.25A, N-RELEASE16A, SCREW CONNECTION, STANDARD SW. CAPACITY

General technical data:		
product brand name		SIRIUS
product designation		3RV2 circuit breaker
Size of the circuit-breaker		S00
Trip class		CLASS 10
Protection class IP / on the front		IP20
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during storage	°C	-50 +80
during operating	°C	-20 +60
during transport	°C	-50 +80
Resistance against shock		25g / 11 ms
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	690
Active power loss / total / typical	W	5.4
Item designation		
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		F
according to DIN EN 61346-2		F

• of the main contacts / typical100,000• of the auxiliary contacts / typical100,000Type of the driving mechanism / motor driveNoDesign of the operating mechanismNoProduct functionYes• overload protectionYes• phase disturbance recognitionNo• auxiliary switchNo• outcode release mechanismNo• individual release mechanismNo• of polanis (varied value / maxiliumV• of polanis (varied value / maxiliumV• of polanis (varied value / value / value / valueNo• individual release individual releaseNo• of the onn-dialegied short-individual releaseNo• of the onn-dialegied short-i	Mechanical operating cycles as operating time	-	
Type of the driving mechanism / motor drive Image: mechanism / motor drive No Design of the operating mechanism selector switch Product function Yes • oreload protection Yes • phase disturbance recognition Yes Product component Yes • undiary switch No • undiary switch No • inp indicator No Product extension / optional / motor drive No Main circuit: No Service power / at AC-3 / rated value / maximum V 680 Operating current / at AC-3 / rated value / maximum V 680 Service power / at AC-3 / rated value W 370 • at 400 V / rated value W 370 • at 600 V / rated value W 370 • at 600 V / rated value W 370 • at 600 V / rated value W 370 • at 600 V / rated value W 316 • of the non-delayed short-ficiul release A 16	of the main contacts / typical		100,000
Design of the operating mechanism Selector switch Product function Yes • verificad protection Yes • phase distributions recognition Yes Product component Yes • studiagy switch No • undiarvoitage release mechanism No • trip indicator No Product extension / optional / motor drive No Main circuit: 3 Number of poles / for main current circuit 3 Operating vortage / at AC-3 / at 400 V / rated value NO service power / at AC-3 1 • at 400 V / rated value W 370 • at 500 V / rated value W 370 • at 500 V / rated value W 370 • at 500 V / rated value W 370 • at 600 V / rated value W 370 • at 500 V / rated value W 370 • at 600 V / rated value W 370 • at 600 V / rated value W 370 • at 600 V / rated value W 30 • of the non-delayed short-circuit release A 16 16	 of the auxiliary contacts / typical 		100,000
Product function Yes • overload protection Yes • phase disturbance recognition Yes Product component Yes • auxiliary switch No • undervoltage release mechanism No • trip indicator No Product extension / optional / motor drive No Main circuit: 3 Number of poles / for main current circuit 3 Operating outgage / at AC-3 / rated value / maximum V 690 Operating outgage / at AC-3 / rated value / maximum V 690 Operating outgage / at AC-3 / rated value A 1.1 Service power / at AC-3 W 370 • at 400 V / rated value W 370 • at 400 V / rated value W 750 Frequency of operation / at AC-3 / according to IEC 60947-6-2/ 1/h 15 Arrangement of electrical connectors / for main current circuit Top and botom Adjustable response current A 16 16 • of the oursent-dependent overload release A 16 16 • of the oursent / rated value N 125 125 <th>Type of the driving mechanism / motor drive</th> <th>-</th> <th>No</th>	Type of the driving mechanism / motor drive	-	No
overload protectionYesoverload protectionYesProduct componentNo• auxiliary switchNo• undervoltage release mechanismNo• indervoltage release mechanismNo• indervoltage release mechanismNo• tridicatorNoProduct extension / optional / motor driveNoMain circuit:3Multer of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumVService power / at AC-3 / rated value / maximumV• at 400 V / rated valueW• at 400 V / rated valueW• at 400 V / rated valueW• at 400 V rated valueA• at 400 V rated value<	Design of the operating mechanism		selector switch
• phase distributions recognitionImage: Second	Product function		
Product component No • auxiliary switch No • undervoltage release mechanism No • tip indicator No Product extension / optional / motor drive No Main circuit: 3 Number of poles / for main current circuit 3 Operating voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / rated value A 1.1 Service power / at AC-3 W 370 • at 400 V / rated value W 370 • at 500 V / rated value W 370 • at 600 V rated value W 370 • of the non-delayed short-circuit release A 0.9 1.25 Service power / at AC-3 / at 230 V / rated value W 180 • of the current-dependent overload release A 0.9 1.25 Service power / at AC-3 / at 230 V / rated value W 180	overload protection		Yes
• auxiliary switchNo• undervoltage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoMain circuit:NoMumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumVService power / at AC-3 / rated value / maximumVOperating current / at AC-3 / rated value / maximumA1.1Service power / at AC-3Image: Comparison of the comparison of t	phase disturbance recognition		Yes
• undervoltage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoMain circuit:NoNumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumV680Operating current / at AC-3 / at 400 V / rated valueA1.1Service power / at AC-3A to V370• at 400 V / rated valueW370• at 400 V / rated valueW370• at 600 V / rated valueW750Frequency of operation / at AC-3 / according to IEC 60947-6-21 maximum1/h15• at an on-delayed short-circuit releaseA16 16• of the non-delayed short-circuit releaseA16 16• of the current - dependent overload releaseA1.25Service power / at AC-3 / at 230 V / rated valueY esNumber of NC contacts / for auxiliary contacts / instantaneous switching	Product component		
• trip indicator No Product extension / optional / motor drive No Main circuit: No Number of poles / for main current circuit 3 Operating voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / rated value / maximum V 690 Service power / at AC-3 1.1 1 Service power / at AC-3 / according to IEC 60947-6-2 / maximum W 370 • at 690 V / rated value W 370 • at 690 V / rated value W 370 • at 690 V / rated value W 370 • at 690 V / rated value W 370 • at 690 V / rated value W 370 • at 690 V / rated value W 370 • at 690 V / rated value W 370 • at 690 V / rated value W 370 • at 690 V / rated value W 15 • of the non-delayed short-circuit release A 0.5 1.25 Serviceo power / at AC-3	auxiliary switch		No
Product extension / optional / motor drive No Main circuit: Image: Contract of the current circuit 3 Operating voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value A 1.1 Service power / at AC-3 at 400 V / rated value W 370 • at 400 V / rated value W 370 370 • at 400 V / rated value W 370 370 • at 600 V / rated value W 370 370 • at 600 V / rated value W 370 370 Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum W 15 Arrangement of electrical connectors / for main current circuit Top and bottom Adjustable response current A 16 16 • of the non-delayed short-circuit release A 125 Service power / at AC-3 / at 230 V / rated value Yes Continuous current / rated value Yes Number of NC contacts / for auxillary contacts / i	undervoltage release mechanism		No
Main circuit: 3 Operating voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value A 1.1 Service power / at AC-3 W 370 • at 400 V / rated value W 370 • at 600 V / rated value W 370 • at 600 V / rated value W 370 • at 600 V / rated value W 370 • at 600 V / rated value W 370 • at 600 V / rated value W 370 • at 600 V / rated value W 370 • at 600 V / rated value W 370 Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Top and bottom Arrangement of electrical connectors / for main current circuit Top and bottom Adjustable response current Inf 5 • of the non-delayed short-circuit release A 16 16 • of the current-dependent overload release A 1.25 Service power / at AC-3 / at 230 V / rated value Yes 1 Number of NC contacts / for auxillary contacts / instantaneous switching 0 0	trip indicator	_	No
Number of poles / for main current circuit 3 Operating voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / rated value A 1.1 Service power / at AC-3 W 370 • at 400 V / rated value W 370 • at 500 V / rated value W 370 • at 600 V / rated value W 370 • at 600 V / rated value W 370 • at 600 V / rated value W 370 • at 600 V / rated value W 370 • at 600 V / rated value W 370 • at 600 V / rated value W 370 • at 600 V / rated value W 370 • at 600 V / rated value W 370 Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum 1/h 15 Arrangement of electrical connectors / for main current circuit Top and bottom A Adjustable response current 1/h 15 15 • of the non-delayed short-circuit release A 16 16 0	Product extension / optional / motor drive		No
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Operating current / at AC-3 / at 400 V / rated value A 1.1 Service power / at AC-3 W 370 • at 400 V / rated value W 370 • at 500 V / rated value W 370 • at 690 V / rated value W 370 • at 690 V / rated value W 370 • at 690 V / rated value W 370 • at 690 V / rated value W 750 Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum 1/h 15 Arrangement of electrical connectors / for main current circuit Top and bottom Adjustable response current - - 6 • of the on-delayed short-circuit release A 16 16 - • of the current-dependent overload release A 1.25 - Service power / at AC-3 / at 230 V / rated value W 180 - - Auxiliary circuit: Product extension / auxiliary switch Yes - - Number of NC contacts / for auxiliary contacts / instantaneous switching 0 - - Number of NO contacts / for auxiliary contacts / instantaneous switching 0 0 </td <td>Number of poles / for main current circuit</td> <td></td> <td>3</td>	Number of poles / for main current circuit		3
Service power / at AC-3W370• at 400 V / rated valueW370• at 500 V / rated valueW370• at 690 V / rated valueW370• at 690 V / rated valueW750Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentII• of the non-delayed short-circuit releaseA16 16• of the current-dependent overload releaseA0.9 1.25Service power / at AC-3 / at 230 V / rated valueW180Continuous current / rated valueA1.25Auxiliary circuit:Yes1.25Number of NC contacts / for auxiliary contacts / instantaneous switching0Number of NC contacts / for auxiliary contacts / instantaneous switching0Number of Acontacts / for auxiliary contacts / instantaneous 	Operating voltage / at AC-3 / rated value / maximum	V	690
• at 400 V / rated valueW370• at 500 V / rated valueW370• at 690 V / rated valueW750Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response current • of the non-delayed short-circuit releaseA16 16• of the current-dependent overload releaseA0.9 1.25Service power / at AC-3 / at 230 V / rated valueW180Continuous current / rated valueW125Product extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0Number of change-over switches / for auxiliary contacts0	Operating current / at AC-3 / at 400 V / rated value	А	1.1
• at 500 V / rated valueW370• at 690 V / rated valueW750Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response current • of the non-delayed short-circuit release • of the current-dependent overload releaseA16 16• of the current-dependent overload releaseA0.9 1.25Service power / at AC-3 / at 230 V / rated valueW180Continuous current / rated valueA1.25Product extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0Number of change-over switches / for auxiliary contacts0	Service power / at AC-3	-	
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Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum 1/h 15 Arrangement of electrical connectors / for main current circuit Top and bottom Adjustable response current - - • of the non-delayed short-circuit release A 16 16 • of the current-dependent overload release A 0.9 1.25 Service power / at AC-3 / at 230 V / rated value W 180 Continuous current / rated value A 1.25 Auxiliary circuit: Yes Product extension / auxiliary switch Yes Number of NC contacts / for auxiliary contacts / instantaneous switching 0 Number of change-over switches / for auxiliary contacts 0 Number of change-over switches / for auxiliary contacts 0 Inputs/Outputs: Inputs/Outputs	• at 500 V / rated value	W	370
maximum Imaximum Image: Imaximum Imaxim Imaxim Imaxim Imax	• at 690 V / rated value	W	750
Adjustable response currentImage: Constant of the non-delayed short-circuit releaseAImage: Constant of the current-dependent overload releaseAImage: Constant of the current-dependent overload releaseAImage: Constant of the current overload releaseAImage: Constant overload releaseAImage: Constant overload releaseAImage: Constant overload releaseImage: Constant overload release		1/h	15
• of the non-delayed short-circuit releaseA16 16• of the current-dependent overload releaseA0.9 1.25Service power / at AC-3 / at 230 V / rated valueW180Continuous current / rated valueA1.25Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contactsInstantaneousInputs/ Outputs:Inputs/ Outputs	Arrangement of electrical connectors / for main current circuit		Top and bottom
• of the current-dependent overload releaseA0.9 1.25Service power / at AC-3 / at 230 V / rated valueW180Continuous current / rated valueA1.25Auxiliary circuit:Product extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0Number of NO contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0Inputs/ Outputs:Inputs/ Outputs	Adjustable response current		
Service power / at AC-3 / at 230 V / rated value W 180 Continuous current / rated value A 1.25 Auxiliary circuit: Yes Product extension / auxiliary switch Yes Number of NC contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of change-over switches / for auxiliary contacts 0 Inputs/ Outputs: U	 of the non-delayed short-circuit release 	А	16 16
Continuous current / rated value A 1.25 Auxiliary circuit: Yes Product extension / auxiliary switch Yes Number of NC contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of change-over switches / for auxiliary contacts 0 Inputs/ Outputs: Inputs/ Outputs:	of the current-dependent overload release	А	0.9 1.25
Auxiliary circuit: Yes Product extension / auxiliary switch Yes Number of NC contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of change-over switches / for auxiliary contacts 0 Inputs/ Outputs: 0	Service power / at AC-3 / at 230 V / rated value	W	180
Product extension / auxiliary switch Yes Number of NC contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of change-over switches / for auxiliary contacts 0 Inputs/ Outputs: 0	Continuous current / rated value	А	1.25
Number of NC contacts / for auxiliary contacts / instantaneous switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of change-over switches / for auxiliary contacts 0 Inputs/ Outputs: 0	Auxiliary circuit:		
switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of change-over switches / for auxiliary contacts 0	Product extension / auxiliary switch		Yes
switching 0 Number of change-over switches / for auxiliary contacts 0	-		0
Inputs/ Outputs:	-		0
	Number of change-over switches / for auxiliary contacts		0
Number of digital inputs 0	Inputs/ Outputs:		
	Number of digital inputs		0

Short-circuit:			
Breaking capacity limit short-circuit current (lcu)			
• at 400 V / rated value	А	100,000	
• at 500 V / rated value	А	100,000	
• at 690 V / rated value	А	100,000	
Design of the overcurrent release and short-circuit release		thermomagnetic	
Installation/mounting/dimensions:			
Built in orientation		any	
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715	
Width	mm	45	
Height	mm	97	
Depth	mm	91	
Distance, to be maintained, to the ranks assembly			
forwards	mm	0	
backwards	mm	0	
• upwards	mm	50	
downwards	mm	50	
• sidewards	mm	0	
Distance, to be maintained, to earthed part			
forwards	mm	0	
backwards	mm	0	
• upwards	mm	50	
• sidewards	mm	30	
• downwards	mm	50	
Distance, to be maintained, conductive elements			
• forwards	mm	0	
backwards	mm	0	
• upwards	mm	50	
downwards	mm	50	
• sidewards	mm	30	
Connections:			
Product function			
removable terminal for main circuit		No	
removable terminal for auxiliary and control circuit		No	
Design of the electrical connection			
• for main current circuit		screw-type terminals	
Type of the connectable conductor cross-section			
for main contacts			

• solid				2x (0.75	5 2.5 mm²), 2x 4	mm ²	
	led			27 (0.70	, 2.0 mm), 2x 4		
finely stranded with conductor end processing				2x (0 5	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
	uctors / for main contacts					75 2.5 mm-)	
• IOI AWG COILU				28 (10.	14), 2x 12		
Certificates/app	rovals:						
Verification of sui	tability			CE / UL	/ CSA		
 f ür Staubexplo 	sionsschutz für Zone 21/	22		no			
 for gas explosi 	on protection for zone 1/2	2		no			
General Product	Approval				For use in hazar	dous locations	
	(SP)	P			(Ex)		
CCC Test Certificates	CSA	GOST	UL		ATEX		
<u>other</u>	Special Test Certificate	<u>Type Test</u> <u>Certificates/Test</u> Report					
Shipping Approv	val						
ABS	GL	Llovd's Register	PRS		RINA	RMPS	
other		Lity	110				
	Declaration of Conformity	<u>other</u>					
UL/CSA ratings							
yielded mechanic	al performance (hp)						
 for three-phase 	e squirrel cage motors						
• at 460/480 V	/ / rated value		hp	0.5			
• at 575/600 \	/ / rated value		hp	0.5			
Operating current	(FLA) / for three-phase	e squirrel cage motors					
• at 480 V / rated	d value		А	1.1			
• at 600 V / rated	d value		А	0.9			
Safety:							
B10 value / with h	igh demand rate						
according to SN 31920			50,000				
	of test interval or servic	e life					
according to IEC 61508		а	10				
Failure rate (FIT v	alue) / with low demand	d rate					
 according to S 	N 31920		FIT	50			

Proportion of dangerous failures		
with low demand rate / according to SN 31920	%	40
 with high demand rate / according to SN 31920 	%	40
Protection against electrical shock		finger-safe

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

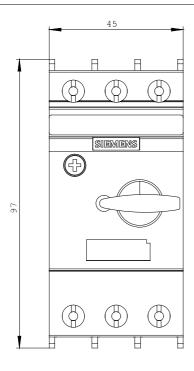
http://www.siemens.com/industrial-controls/mall

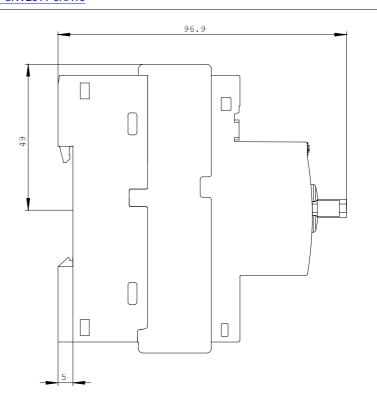
CAx-Online-Generator

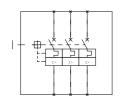
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2011-0KA10/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-0KA10







last change:

Mar 27, 2012