SIEMENS

Product data sheet

3RV2011-0HA10



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.55...0.8A, N-RELEASE10 A 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 / typical100,000• Type of the driving mechanism / motor driveNoDesign of the operating mechanismNo• overhaad protectionYes• overhaad protectionYes• phase disturbance recognitionYes• auxiliary switchNo• undersy switch<	Mechanical operating cycles as operating time	_		
Type of the driving mechanism / motor drive Image: mechanism / motor drive No Design of the operating mechanism image: mechanism	of the main contacts / typical		100,000	
Design of the operating mechanism issue its in the intervention • overload protection Yes • overload protection Yes • availary switch Yes • availary switch No • undervoltage release mechanism No • 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 680 Operating voltage / at AC-3 / rated value / maximum V 680 Service power / at AC-3 Act on V / rated value W • at 400 V / rated value W 180 • at 400 V / rated value W 180 • at 400 V / rated value W 250 • at 400 V / rated value W 370 Frequency of operation / at AC-3 / according to IEC 60947-6-2.1 Top and bottom • of the non-delayed short-circuit release A 10 10 • of the non-delayed short-circuit release A 055 0.8 Service	of the auxiliary contacts / typical		100,000	
Product function Yes • overload protection Yes • phase disturbance recognition Yes Product component No • audilary switch No • undervoltage release mechanism No • trip indicator No Product stansion / optional / motor drive No Main circuit: No Number of poles / for main current circuit 3 Operating voltage / at AC-3 / rated value / maximum V Operating current / at AC-3 / rated value / maximum V Service power / at AC-3 0.6 Service power / at AC-3 W • at 400 V / rated value W • at 400 V / rated value W • at 400 V / rated value W • at 500 V / rated value W • at 400 V / rated value W • of the con-delayed shot-circuit release <t< th=""><th>Type of the driving mechanism / motor drive</th><th></th><th>No</th></t<>	Type of the driving mechanism / motor drive		No	
• overload protectionYes• phase disturbance recognitionYesProduct componentYes• auxiliary switchNo• undervoltage release mechanismNo• indicatorNoProduct extension / optional / motor driveNoProduct extension / optional / motor driveNoMumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumVService power / at AC-3800• at 400 V / rated valueW• at 400 V rated valueNo• at 400 V rated valueNo• at 400 V rated valueNo• at 400 V rated valueNo </th <th>Design of the operating mechanism</th> <th></th> <th>selector switch</th>	Design of the operating mechanism		selector switch	
• phase disturbance recognitionImage: second se	Product function			
Product component No • auxiliary switch No • undervoltage release mechanism No • trip indicator No Product extension / optional / motor drive No Mumber 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 0.6 Service power / at AC-3 W 180 • at 400 V / rated value W 180 • at 500 V / rated value W 30 • at 600 V / rated value W 15 maximum I/h 15 Arrangement of electrical connectors / for main current circuit Top and bottom Adjustable response current A 0.8 • of the current-dependent overload release A 0.8 Service power / at AC-3 / at 230 V / rated value W 120 • of the current-dependent overload release A 0.8 Service power / at AC-3 / at 230 V / rated value W 120 Continuous curent / rated v	overload protection		Yes	
• auxiliary switchNo• undervoltage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoMumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumV690Operating current / at AC-3 / rated value / maximumV690Operating current / at AC-3 / rated value / maximumV690Operating current / at AC-3 / rated valueA0.6Service power / at AC-3W180• at 400 V / rated valueW180• at 600 V rated valueW370• at 600 V rated valueW320• at 600 V rated valueM30• at 600 V rated value<	phase disturbance recognition		Yes	
• undervoltage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoMumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumV690Operating current / at AC-3 / at 400 V / rated valueA0.6Service power / at AC-3 / at 400 V / rated valueW180• at 400 V / rated valueW250• at 400 V / rated valueW370• at 600 V / rated valueM10• of the non-delayed short-ficruit releaseA10• of the non-delayed short-ficruit releaseA0.8• of the current / rated valueW120• of the current / rated valueM120• of the current / rated valueM120• of the current / rated valueM120• of the current / rated valueM<	Product component			
• trip 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 / maximum V 690 • at 400 V / rated value W 180 • at 400 V / rated value W 180 • at 400 V / rated value W 250 • at 690 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 M 70 Adjustable response current - - 1/h • of the non-delayed short-circuit release A 0.55 . 0.8 Service power / at AC-3 / at 230 V / rated value W 120 1/h 120 Continuous current / rated value A 0.8 1/h 1/h 1/h 1/h 1/h 1/h 1/h 1/h 1/h	auxiliary switch		No	
Product extension / optional / motor drive No Main circuit: Image: Contract in the image	undervoltage release mechanism		No	
Main circuit: 3 Operating voltage / at AC-3 / rated value / maximum V 690 Operating vortage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value A 0.6 Service power / at AC-3 W 180 • at 400 V / rated value W 180 • at 400 V / rated value W 250 • 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 - - • of the non-delayed short-circuit release A 0.5 • of the current-dependent overload release A 0.8 Service power / at AC-3 / at 230 V / rated value W 120 Continuous current / rated value Yes 0 Number of NC contacts / for auxiliary contacts / instantaneous switching 0 0 Number of NC contacts / for auxiliary contacts / instantaneous switching 0 0 Number of change-over switches / for auxiliary contacts 0 0	trip indicator		No	
Number of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumV690Operating current / at AC-3 / at 400 V / rated valueA0.6Service power / at AC-3V180• at 400 V / rated valueW180• at 600 V / rated valueW250• at 600 V / rated valueW370Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentV120• of the non-delayed short-circuit releaseA10 10• of the current-dependent overload releaseA0.8Service power / at AC-3 / at 230 V / rated valueW120Continuous current / rated valueW120Autiliary circuit:YesProduct extension / auxiliary contacts / instantaneous switchingYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts / instantaneous 	Product extension / optional / motor drive		No	
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• at 400 V / rated valueW180• at 500 V / rated valueW250• at 690 V / rated valueW370Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximumI/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response current • of the non-delayed short-circuit releaseA10 10• of the current-dependent overload releaseA0.55 0.8Service power / at AC-3 / at 230 V / rated valueW120Continuous current / rated valueW0.8Auxiliary circuit:YesProduct extension / auxiliary contacts / instantaneous switching0Number 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	0.6	
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maximum Imaximum Image: Imaximum Imake: Imaximum Imaximum <th imaximu<="" td=""><td>• at 690 V / rated value</td><td>W</td><td>370</td></th>	<td>• at 690 V / rated value</td> <td>W</td> <td>370</td>	• at 690 V / rated value	W	370
Adjustable response currentImage: constraint of the non-delayed short-circuit releaseA10 10• of the current-dependent overload releaseA0.55 0.8Service power / at AC-3 / at 230 V / rated valueW120Continuous current / rated valueA0.8Auxiliary 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 contacts0Inputs/ Outputs:Imputs/ Outputs:		1/h	15	
• of the non-delayed short-circuit releaseA10 10• of the current-dependent overload releaseA0.55 0.8Service power / at AC-3 / at 230 V / rated valueW120Continuous current / rated valueA0.8Auxiliary 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 contacts0Inputs/ Outputs:0	Arrangement of electrical connectors / for main current circuit		Top and bottom	
• of the current-dependent overload releaseA0.55 0.8Service power / at AC-3 / at 230 V / rated valueW120Continuous current / rated valueA0.8Auxiliary 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 contacts0Inputs/ Outputs:U	Adjustable response current			
Service power / at AC-3 / at 230 V / rated value W 120 Continuous current / rated value A 0.8 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	10 10	
Continuous current / rated value A 0.8 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 change-over switches / for auxiliary contacts 0 Inputs/ Outputs: 0	of the current-dependent overload release	А	0.55 0.8	
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: 0	Service power / at AC-3 / at 230 V / rated value	W	120	
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	0.8	
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:			
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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				$2 \times (0.75 - 0.5 \text{ mm}^2) - 2 \times (1.5 \text{ mm}^2)$	4 mm2)
				2x (0.75 2.5 mm²), 2x (1	
 stranded 				2x (0.75 2.5 mm²), 2x 4 r	nm²
 finely strand 	led				
with conc	ductor end processing			2x (0.5 1.5 mm²), 2x (0.7	5 2.5 mm²)
 for AWG condu 	uctors / for main contact	S		2x (18 14), 2x 12	
Certificates/app	rovals:				
Verification of sui	tability			CE / UL / CSA	
 für Staubexplos 	sionsschutz für Zone 21	/22		no	
 for gas explosi 	on protection for zone 1	/2		no	
General Product	Approval			For use in hazard	lous locations
coc	(SA)	ROSTEST		DEKRA EXAM, DMT	
Test Certificates	i				
Manufacturer	other				
Shipping Approv	val				
ABS	GL	Lloyd's Register Lrs	PRS	RINA	RMRS
other					
Manufacturer	other				

Safety:			
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	а	10	
Failure rate (FIT value) / with low demand rate			
according to SN 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

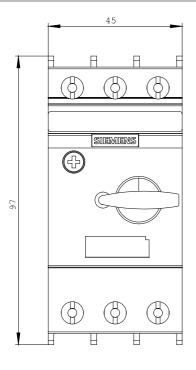
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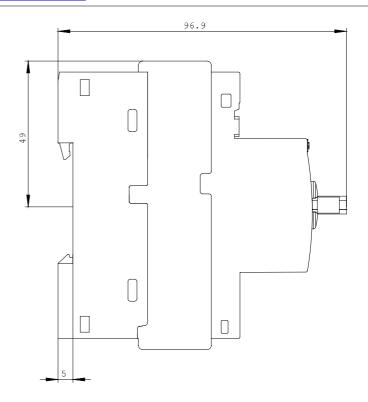
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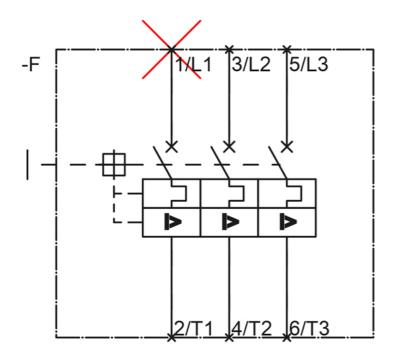
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RV2011-0HA10/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-0HA10







last change:

Oct 24, 2011