SIEMENS

Product data sheet

3RV2011-0GA40



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.45...0.63A, N-RELEASE8.2A RING CABLE LUG 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		IP00
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
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• type of the diriving mechanism / motor driveNoDesign of the operating mechanismNoProduct functionVes• overload protectionYes• brass disturbance recognitionYes• duality switchNo• undercolage release mechanismMo• duality switchNo• undercolage release mechanismMo• trip indicatorNoProduct extension / optional / motor driveNoProduct extension / optional / motor driveNoProduct extension / optional / motor driveSService power / at AC-3 / rated value / maximumV0perating worthed valueW• at 400 V/ rated valueM• at	Mechanical operating cycles as operating time	_	
Type of the driving mechanism / motor drive Image: Margin and Selector switch Design of the operating mechanism Image: Selector switch Product function Yes • oreidod protection Yes • phase disturbance recognition Yes Product component Image: Selector switch • undiary switch No • undervoltage release mechanism No • tip indicator No Product component Image: Selector Switch • undervoltage release mechanism No • tip indicator No Product control optional / motor drive No Maine circuit: No Number of poles / for main current circuit S Operating current / at AC-3 / rated value / maximum V 690 • at 400 V / rated value W 180 • at 600 V / rated value W 180 • at 600 V / rated value W 15 • at 600 V / rated value A 8,2 8,2 • of the non-delayed short-circuit release A 8,3 • of the non-delayed short-circuit r	of the main contacts / typical		100,000
Design of the operating mechanism Image: Selector switch Product function Ves • overload protection Yes • phase disturbance recognition Yes Product component Yes • survilary switch No • undervoltage release mechanism No • tip indicator No Product statistion / optional / motor drive No Main circuit: No Number of poles / for main current circuit 3 Operating voltage / at AC-3 / at 400 V / rated value AV • at 400 V / rated value WW 180 • at 400 V / rated value WW 180 • at 800 V / rated value WW 180 • at 800 V / rated value WW 180 • at 800 V / rated value WW 250 Frequency of operation / at AC-3 / according to IEC 60947-6-2 / a of the non-delayed short-circuit release A 8.2 8.2 • of the non-delayed short-circuit release A 0.45 0.63 Service power / at AC-3 / according to IEC 60947-6-2 / a of the current-degendent coverload release A 0.45 0.63 <td> of the auxiliary contacts / typical </td> <td></td> <td>100,000</td>	 of the auxiliary contacts / typical 		100,000
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• overload protectionImage: Second secon	Design of the operating mechanism		selector switch
• phase disturbance recognitionYesProduct component • undervoltage release mechanism • trip indicatorNo• undervoltage release mechanism • trip indicatorNoProduct extension / optional / motor driveNoProduct extension / optional / motor driveNoMumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumV690GoOperating current / at AC-3 / rated value / maximumV691GoService power / at AC-3W180V• at 400 V / rated valueM0.0 / rated valueW180 / rated valueW• at 600 V / rated valueW180 / rated valueW• at 600 V / rated valueW• at 600 V / rated valueW180 / rated valueW• at 600 V / rated valueM• at 600 V / rated valueA• at 600 V / rated valueA <tr< td=""><td>Product function</td><td></td><td></td></tr<>	Product function		
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• 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-3W180• at 400 V / rated valueW180• at 400 V / rated valueW180• at 600 V / rated valueW250Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximumTop and bottomAdjustable response currentA8.2 8.2• of the non-delayed short-ficuit releaseA0.45 0.63Service power / at AC-3 / at 230 V / rated valueW90• of the non-delayed short-ficuit releaseA0.63Service power / at AC-3 / at 230 V / rated valueW90Continuous current / rated valueW90Continuous current / rated valueM0.63Service power / at AC-3 / at 230 V / rated valueM90Continuous current / rated valueM90Continuous current / rated valueM90Continuous current / rated valueM90Mumber of NC contacts / for auxiliary contacts / instantaneous switching1YesNumber of NC contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0Number of change-over switches / for auxiliary contacts	Product component		
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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 / 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 180 • at 500 V / rated value W 180 • at 600 V / rated value W 180 • at 600 V / rated value W 250 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 8.2 8.2 • of the current-dependent overload release A 0.63 Service power / at AC-3 / at 230 V / rated value W 90 Continuous current / rated value Yes Number of NC contacts / for auxiliary contacts / instantaneous switching 90 90 Number of ND contacts / for auxiliary contacts / instantaneous switching	undervoltage release mechanism		No
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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 Imaximum Second to the non-delayed short-circuit release A • of the non-delayed short-circuit release A 8.2 8.2 • of the current-dependent overload release A 0.45 0.63 Service power / at AC-3 / at 230 V / rated value W 90 Continuous current / rated value A 0.63 Auxiliary circuit: Yes Product extension / auxiliary switch Yes Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of change-over switches / for auxiliary contacts 0 Inputs/ Outputs: Inputs/ Outputs	• at 500 V / rated value	W	180
maximum Imaximum Imaxim Imaxim Imax	• at 690 V / rated value	W	250
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• of the non-delayed short-circuit releaseA8.2 8.2• of the current-dependent overload releaseA0.45 0.63Service power / at AC-3 / at 230 V / rated valueW90Continuous current / rated valueA0.63Auxiliary 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
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Continuous current / rated value A 0.63 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 Inputs/ Outputs: 0	• of the current-dependent overload release	А	0.45 0.63
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	90
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	0.63
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		ring cable connection	
Certificates/approvals:			

Verification of suita	bility		C	E/UL/CSA	
• für Staubexplosio	onsschutz für Zone 2	1/22	no	D	
 for gas explosion 	n protection for zone 1	/2	na	o	
General Product A	pproval			For use in hazar	dous locations
COC	(SA)	ROSTEST		DEKRA EXAM, DMT	
Test Certificates					
Manufacturer	other				
Shipping Approva	1				
ABS	GL	Lloyd's Kegister Lrs	PRS	RINA	RMRS
other					
Manufacturer	other	VDE			

Safety:

Galety.		
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)

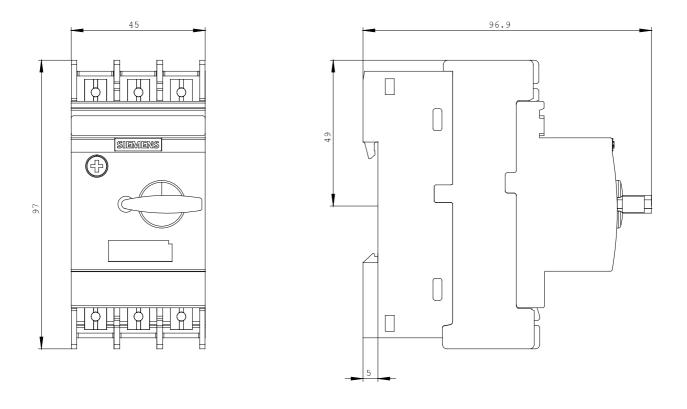
http://www.siemens.com/industrial-controls/mall

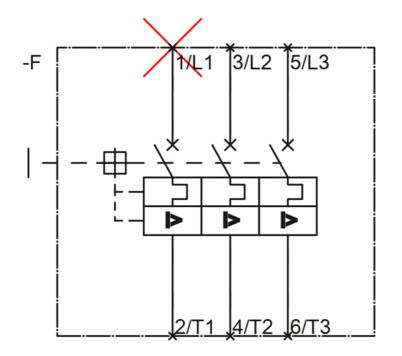
CAx-Online-Generator

http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2011-0GA40/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-0GA40





last change:

Oct 24, 2011