SIEMENS

Product data sheet

3RV2011-1DA10



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL.2.2...3.2A, N-RELEASE 42A, 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	6.9
Item designation		
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		F
according to DIN EN 61346-2		F

Mechanical operating cycles as operating time		
of the main contacts / typical		100,000
 of the auxiliary contacts / typical 		100,000
Type of the driving mechanism / motor drive		No
Design of the operating mechanism		selector switch
Product function		
overload protection		Yes
phase disturbance recognition		Yes
Product component		
auxiliary switch		No
undervoltage release mechanism		No
trip indicator		No
Product extension / optional / motor drive		No
Main circuit:		
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	А	3.2
Service power / at AC-3		
• at 400 V / rated value	W	1,100
• at 500 V / rated value	W	1,500
• at 690 V / rated value	W	2,200
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 	А	42 42
• of the current-dependent overload release	А	2.2 3.2
Service power / at AC-3 / at 230 V / rated value	W	550
Continuous current / rated value	А	3.2
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
Number of change-over switches / for auxiliary contacts		0
Inputs/ Outputs:		

Breaking capacity limit short-circuit current (icu) A 100,000 • at 600 V / raied value A 100,000 • at 600 V / raied value A 100,000 • at 600 V / raied value A 100,000 • at 600 V / raied value 100,000 thermonagnetic • at 600 V / raied value any itemmonagnetic Design of the overcurrent release and short-circuit release any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Vidth mm 45 mounting rail according to DIN EN 60715 Vidth mm 91 mounting rail according to DIN EN 60715 Vidth mm 0 mounting rail according to DIN EN 60715 Vidth mm 0 mounting rail according to DIN EN 60715 Vidth mm 0 mounting rail according to DIN EN 60715 Vignards mm 0 mounting rail according to DIN EN 60715 Vignards mm 0 mounting rail according to DIN EN 60715 Vignards mm 0 mounting rail according to DIN EN 60716 Vignards	Short-circuit:		
A10.000at 800 V/rated valueA10.000Design of the overcurrent release and short-circuit releaseIntermonagneticInstallation/mounting/dimensions:Intermonagneticmounting positionIntermonagneticType of mountingIntermonagneticWidthIntermonagneticHeightIntermonagneticDepthIntermonagneticInstance, to be maintained, to the ranks assemblyIntermonagneticInstance, to be maintained, to earthed partIntermonagneticInstance, to be maintained, to earthed partIntermonagneticInstance, to be maintained, to earthed partIntermonagneticInstance, to be maintained, conductive elementsIntermonagneticInstance, to be maintained, conductiveIntermonagnetic	Breaking capacity limit short-circuit current (Icu)		
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Design of the overcurrent release and short-circuit release thermonagnetic Installation/nounling/dimensions: any mounting position any Type of mounting any Width mounting rail according to DIN EN 60715 Height mom Depth mm Height mm Oppth mm Invarids mm Invarads mm Invar	• at 500 V / rated value	А	100,000
Installation/nounting/dimensions: envire mounting position any Type of mounting screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Widh nmm 45 Height nm 91 Distance, to be maintained, to the ranks assembly mm 91 •forwards nm 0 100 •downwards nm 0 10 •downwards	• at 690 V / rated value	А	10,000
mounting positionImage: anyType of mountingImage: according to DIN EN 60715Widthmm45Heightmm97Depthmm91Distance, to be maintained, to the ranks assemblyImage: according to DIN EN 60715• forwardsmm0• forwardsmm0• dowardsmm0• dowardsmm0• dowardsmm50• dowardsmm0• dowardsmm0• dowardsmm0• dowardsmm0• dowardsmm0• dowardsmm0• dowardsmm0• dowardsmm0• dowardsmm50•	Design of the overcurrent release and short-circuit release		thermomagnetic
Type of mountingImage: screw and snap-on mounting onto 35 mm standard mounting to DIN EN 60715Widthmm45Heightmm97Depthmm91Distance, to be maintained, to the ranks assemblymm0• forwardsmm0• backwardsmm50• downwardsmm50• do	Installation/mounting/dimensions:		
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· sidewardsnm30· downwardsnm50Distance, to be maintained, conductive elements· forwardsnm0· backwardsnm0· backwardsnm50· upwardsnm50· downwardsnm50· downwardsnm30· downwardsnm30· downwardsnm0· downwardsnm50· downwardsNo10· downwardsidewardsidewards· downwardsidewardsidewards· downwardsidewardsNo· downwardsidewardsidewards· downwardsidewardsidewards· downwardsidewardsidewards· downwardsidewardsidewards· downwardsidewardsidewards <td>backwards</td> <td>mm</td> <td>0</td>	backwards	mm	0
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• forwardsnm0• backwardsnm0• upwardsnm50• downwardsnm50• sidewardsmm30• connections:nmNo• removable terminal for main circuitNo• removable terminal for auxiliary and control circuitNo• for main current circuitIScew-type terminals• for main current circuitIScew-type terminals	downwards	mm	50
• backwardsnmm0• upwardsmm50• downwardsmm30• sidewardsmm30Connections:Verduct functionNo• removable terminal for main circuitImmNo• removable terminal for auxiliary and control circuitNoNoDesign of the electrical connectionImmscrew-type terminals• for main current circuitImmscrew-type terminals	Distance, to be maintained, conductive elements		
• upwardsnm50• downwardsmm50• sidewardsmm30Connections:Product function• removable terminal for main circuitINo• removable terminal for auxiliary and control circuitNoNoDesign of the electrical connection• for main current circuitIScrew-type terminalsType of the connectable conductor cross-sectionII	• forwards	mm	0
· downwardsmm50· sidewardsmm30Connections:Product functionImage: Signal	backwards	mm	0
• sidewardsmm30Connections:Product functionII• removable terminal for main circuitINo• removable terminal for auxiliary and control circuitINoDesign of the electrical connectionII• for main current circuitIscrew-type terminalsType of the connectable conductor cross-sectionII	• upwards	mm	50
Connections: Volume Product function Image: Connection image: Connectable conductor cross-section No Type of the connectable conductor cross-section Image: Connectable conductor cross-section	downwards	mm	50
Product function No • removable terminal for main circuit No • removable terminal for auxiliary and control circuit No Design of the electrical connection No • for main current circuit Screw-type terminals Type of the connectable conductor cross-section Image: Screw-type terminals	• sidewards	mm	30
• removable terminal for main circuitNo• removable terminal for auxiliary and control circuitNoDesign of the electrical connectionNo• for main current circuitScrew-type terminalsType of the connectable conductor cross-sectionImage: Screw-type terminals	Connections:		
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• for main current circuit screw-type terminals Type of the connectable conductor cross-section Image: Content of the connectable conductor cross-section	 removable terminal for auxiliary and control circuit 		No
Type of the connectable conductor cross-section	Design of the electrical connection		
	for main current circuit		screw-type terminals
• for main contacts	Type of the connectable conductor cross-section		
	for main contacts		

• solid				2x (0.7	5 2.5 mm²), 2x 4	mm ²	
 finely strand 	led						
 with cond 	ductor end processing			2x (0.5	1.5 mm²), 2x (0.7	75 2.5 mm²)	
 for AWG conduct 	uctors / for main contacts	3		2x (18 14), 2x 12			
Certificates/app	orovals:						
Verification of sui	itability			CE / UI	CE / UL / CSA / CCC		
 für Staubexplo 	sionsschutz für Zone 21/	/22		no	no		
 for gas explosi 	on protection for zone 1/	2		no	no		
General Product	t Approval				For use in hazardous locations	Declaration of Conformity	
	(SA)	GOST			X ATEX	EG-Konf.	
Test Certificates	5						
other	Special Test	Type Test					
	Certificate	Certificates/Test Report					
Shipping Approv	val						
ABS	GL	Llovd's Register	PRS		RINA	RMRS	
other							
	other						
UL/CSA ratings							
yielded mechanic	al performance (hp)						
 for single-phas 	se squirrel cage motors						
• at 110/120 V / rated value		hp	0.1				
• at 230 V / rated value			hp	0.25			
 for three-phase squirrel cage motors 							
• at 200/208 V / rated value			hp	0.5			
• at 220/230 V / rated value		hp	0.75				
• at 460/480 V / rated value		hp	1.5				
• at 575/600 \	V / rated value		hp	2			
			-				

Operating current (FLA) / for three-phase squirrel cage motors

• at 480 V / rated value

• at 600 V / rated value

Safety:

А

А

3

2.7

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

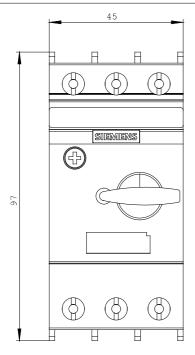
CAx-Online-Generator

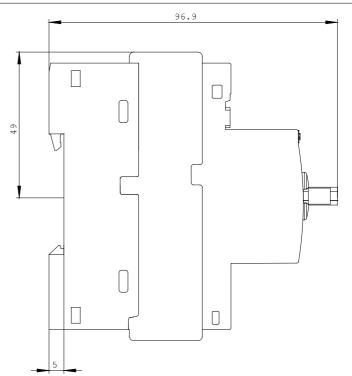
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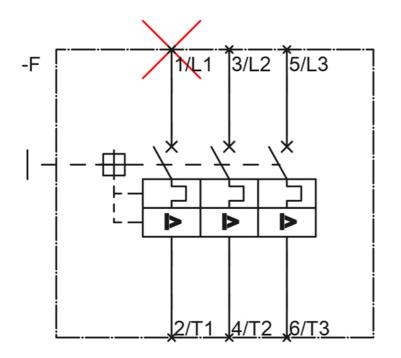
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2011-1DA10/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1DA10







last change:

Sep 12, 2012