SIEMENS

Product data sheet

3RV2411-0AA20



CIRCUIT-BREAKER SZ S00, FOR TRANSFORMER PROT. A-RELEASE 0.11...0.16A, N-RELEASE3.3A SPRING-L. 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	5.5
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 / typical 100,000 • of the davillary contacts / typical 100,000 Type of the driving mechanism / motor drive No Design of the operating mechanism selector switch 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: No Operating current / at AC-3 / rated value A 0 operating current / at AC-3 / at 400 V / rated value A • at 400 V / rated value W 60 • at 600 V / rated value W 60 • at 600 V / rated value W 60 • at 600 V / rated value W 60 • at 600 V / rated value W 60 • at 600 V / rated value W 60 • at 600 V / rated value M 60 • at 600 V / rated value W 60 • at 600 V / rated value W 60 • at 600 V / rated value M 60 • at 600 V / rated value M <th>Mechanical operating cycles as operating time</th> <th></th> <th></th>	Mechanical operating cycles as operating time		
Type of the driving mechanism / motor drive No Design of the operating mechanism selector switch Product function Yes • overfoad protection Yes • phase disturbance recognition Yes Product component	of the main contacts / typical		100,000
Design of the operating mechanism selector switch Product function Yes • overload protection Yes • phase disturbance recognition Yes Product component No • 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 outgae / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / rated value / maximum V 690 Operating outgae / at AC-3 / rated value A 0.16 Service power / at AC-3 W 40 • at 400 V / rated value W 60 • at 400 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value	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 voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / rated value A 0.16 Service power / at AC-3 V 60 • at 400 V / rated value W 60 • at 600 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value W 60 • of the non-delayed short-circuit release A 3.33.3 • of the current-dependent overload	Type of the driving mechanism / motor drive		No
• overload protectionYes• phase disturbance recognitionYesProduct component	Design of the operating mechanism		selector switch
• phase disturbance recognition Yes 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 / at 400 V / rated value A 0.16 Service power / at AC-3 - - • at 400 V / rated value W 60 • at 600 V / rated value W 60 • at 600 V / rated value W 60 • at 600 V / rated value W 60 • at 600 V / rated value W 60 • at 600 V / rated value W 60 • at 600 V / rated value W 60 • at 600 V / rated value W 60 • at 600 V / rated value W 60 • of the non-delayed short-circuit release A 3.3 3.3 • of the non-delayed short-circuit release A 0.11 0.16 Service power / at	Product function		
Product componentNo• auxiliary switchNo• undervoltage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoMain circuit:NoNumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumVOperating current / at AC-3 / rated value / maximumV690Operating current / at AC-3 / rated valueA0.16Service power / at AC-3-• at 400 V / rated valueW60• at 400 V / rated valueW60• at 600 V / rated valueW60• at 600 V / rated valueW60• at 600 V / rated valueW60Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximumTop and bottomArrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentA33.3• of the non-delayed short-circuit releaseA33.3• of the current-dependent overload releaseA0.16Service power / at AC-3 / at 230 V / rated valueW20Continuous current / rated valueA0.16Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous0switching01	overload protection		Yes
• auxiliary switchNo• undervoltage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoMain circuit:NoNumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumV600600Operating current / at AC-3 / at 400 V / rated valueA0.161Service power / at AC-3V• at 400 V / rated valueW• at 600 V / rated valueW• of the on-delayed short-circuit releaseAArrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentA.0.16• of the non-delayed short-circuit releaseA.33.3• of the current-dependent overload releaseA.0.16Service power / at AC-3 / at 230 V / rated valueW20Continuous current / rated valueW.0.16Auxiliary circuit:YesYesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous0	phase disturbance recognition	_	Yes
• undervoltage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoMain circuit:NoMumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumVOperating current / at AC-3 / rated value / maximumVOperating current / at AC-3 / rated valueA0.16Service power / at AC-3W• at 400 V / rated valueW• at 630 V / rated valueW• at 630 V / rated valueW• at 630 V / rated valueW• of the non-delayed short-circui releaseA• of the non-delayed short-circui releaseA• of the current-dependent overload releaseA• of the current / at AC-3 / rat 230 V / rated valueW• of the current drend releaseA• of the current drend releaseA• of the current drend valueW• OA• of the current / rated valueW• OA• of the current / rated valueW• of the current / rated valueW• OA• of the current / rated valueM• of the curr	Product component		
• trip indicatorNoProduct extension / optional / motor driveNoMain circuit:NoNumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumV690Operating current / at AC-3 / at 400 V / rated valueA0.16Service power / at AC-3W40• at 400 V / rated valueW60• at 690 V / rated valueW60• at 690 V / rated valueW60• of the non-delayed short-circuit releaseA3.3 3.3• of the non-delayed short-circuit releaseA3.3 3.3• of the current-dependent overload releaseA0.16Service power / at AC-3 / at 230 V / rated valueW20Continuous current / rated valueW20Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous0	auxiliary switch		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 / at 400 V / rated value A 0.16 Service power / at AC-3 W 40 • at 400 V / rated value W 60 • at 400 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value W 60 Arrangement of electrical connectors / for main current circuit Top and bottom Adjustable response current V 20 • of the onn-delayed short-circuit release A 3.3 3.3 • of the current-dependent overload release A 0.16 Service power / at AC-3 / at 230 V / rated value W 20 <	undervoltage release mechanism		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 0.16 Service power / at AC-3 W 40 • at 400 V / rated value W 40 • at 400 V / rated value W 60 • at 500 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value W 60 • at 690 V / rated value W 60 Arrangement of electrical connectors / for main current circuit Top and bottom Adjustable response current I/h 15 • of the non-delayed short-circuit release A 3.3 3.3 • of the current-dependent overload release A 0.11 0.16 Service power / at AC-3 / at 230 V / rated value W 20 Continuous current / rated value A 0.16 Auxiliary circuit: Yes 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 valueA0.16Service power / at AC-3	Product extension / optional / motor drive		No
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Service power / at AC-3W• at 400 V / rated valueW• at 500 V / rated valueW• at 690 V / rated valueTop and bottom• at 690 V / rated valueA• of the non-delayed short-circuit releaseA• of the current-dependent overload releaseA• of the current-dependent overload releaseA• of the current / rated valueW20Continuous current / rated valueWAuxiliary circuit:Product extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0	Operating voltage / at AC-3 / rated value / maximum	V	690
• at 400 V / rated valueW40• at 500 V / rated valueW60• at 690 V / rated valueW60Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentTop and bottom• of the non-delayed short-circuit releaseA3.3 3.3• of the current-dependent overload releaseA0.11 0.16Service power / at AC-3 / at 230 V / rated valueW20Continuous current / rated valueW20Auxiliary circuit:A0.16Product extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0	Operating current / at AC-3 / at 400 V / rated value	А	0.16
• at 500 V / rated valueW60• at 690 V / rated valueW60Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response currentImage: Connector of the non-delayed short-circuit releaseA3.3 3.3• of the non-delayed short-circuit releaseA0.11 0.16Service power / at AC-3 / at 230 V / rated valueW20Continuous current / rated valueA0.16Auxiliary circuit:YesVesProduct extension / auxiliary switchYes0Number of NC contacts / for auxiliary contacts / instantaneous switching0	Service power / at AC-3	_	
• at 690 V / rated valueW60Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum1/h15Arrangement of electrical connectors / for main current circuitTop and bottomAdjustable response current-Top and bottom• of the non-delayed short-circuit releaseA3.3 3.3• of the current-dependent overload releaseA0.11 0.16Service power / at AC-3 / at 230 V / rated valueW20Continuous current / rated valueA0.16Auxiliary circuit:Product extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0	• at 400 V / rated value	W	40
Frequency 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 releaseA3.3 3.3• of the current-dependent overload releaseA0.11 0.16Service power / at AC-3 / at 230 V / rated valueW20Continuous current / rated valueA0.16Product extension / auxiliary switchProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0	• at 500 V / rated value	W	60
maximumTop and bottomArrangement of electrical connectors / for main current circuitTop and bottomAdjustable response current-• of the non-delayed short-circuit releaseA3.3 3.3• of the current-dependent overload releaseA0.11 0.16Service power / at AC-3 / at 230 V / rated valueW20Continuous current / rated valueA0.16YesProduct extension / auxiliary switchNumber of NC contacts / for auxiliary contacts / instantaneous switching0	• at 690 V / rated value	W	60
Adjustable response current Image: Constant of the non-delayed short-circuit release A 3.3 3.3 • of the non-delayed short-circuit release A 0.11 0.16 • of the current-dependent overload release A 0.11 0.16 Service power / at AC-3 / at 230 V / rated value W 20 Continuous current / rated value A 0.16 Auxiliary circuit: Yes Product extension / auxiliary switch Yes Number of NC contacts / for auxiliary contacts / instantaneous switching 0		1/h	15
• of the non-delayed short-circuit releaseA3.3 3.3• of the current-dependent overload releaseA0.11 0.16Service power / at AC-3 / at 230 V / rated valueW20Continuous current / rated valueA0.16Auxiliary circuit:Product extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0	Arrangement of electrical connectors / for main current circuit		Top and bottom
• of the current-dependent overload releaseA0.11 0.16Service power / at AC-3 / at 230 V / rated valueW20Continuous current / rated valueA0.16Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0	Adjustable response current		
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Continuous current / rated value A 0.16 Auxiliary circuit:	• of the current-dependent overload release	А	0.11 0.16
Auxiliary circuit: Yes Product extension / auxiliary switch Yes Number of NC contacts / for auxiliary contacts / instantaneous switching 0	Service power / at AC-3 / at 230 V / rated value	W	20
Product extension / auxiliary switch Yes Number of NC contacts / for auxiliary contacts / instantaneous switching 0	Continuous current / rated value	А	0.16
Number of NC contacts / for auxiliary contacts / instantaneous 0 switching 0	Auxiliary circuit:		
switching	Product extension / auxiliary switch		Yes
Number of NO contacts / for auxiliary contacts / instantaneous	-		0
switching	Number of NO 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:		
Number of digital inputs 0	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	109
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		spring-loaded terminals
Type of the connectable conductor cross-section		
for main contacts		

• solid				2x (0.5 4 mm2)	
 stranded 				2x (0.5 4 mm²)	
 finely strande 	ed				
with condu	uctor end processing			2 x (0.5 2.5 mm2)	
 without co 	nductor final cutting			2x (0.5 2.5 mm2)	
 for AWG conduct 	ctors / for main contacts	3		2x (20 12)	
Certificates/appr	ovals:				
Verification of suita	ability			CE / UL / CSA	
• für Staubexplos	ionsschutz für Zone 21,	/22		no	
 for gas explosio 	n protection for zone 1/	2		no	
General Product	Approval			Test Certificates	
COC	(SA)	ROSTEST		Manufacturer	
Shipping Approva	al				
ABS	GL	Lloyd's Register	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

VDE

Further information:

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

Industry Mall (Online ordering system)

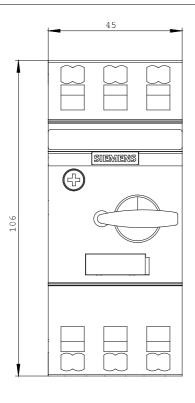
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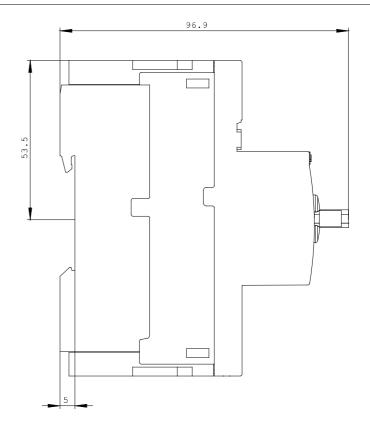
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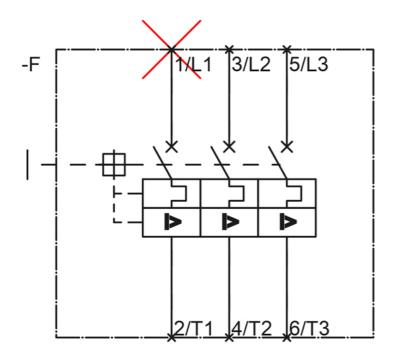
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2411-0AA20/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2411-0AA20







last change:

Oct 17, 2011