SIEMENS

Data sheet

3RV2011-0JA40



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.7...1A, N-RELEASE 13A, RING CABLE LUG CONNECTION STANDARD SW. CAPACITY

product brand name	-	SIRIUS			
Product designation		3RV2 circuit breaker			
General technical data:					
Active power loss total typical	W	6			
Insulation voltage	_				
 with degree of pollution 3 Rated value 	V	690			
Shock resistance	_				
• acc. to IEC 60068-2-27		25g / 11 ms			
Surge voltage resistance Rated value	kV	6			
Mechanical service life (switching cycles)	-				
 of the main contacts typical 		100 000			
 of the auxiliary contacts typical 		100 000			
Electrical endurance (switching cycles)					
• typical		100 000			
Temperature compensation	°C	-20 +60			
Size of contactor can be combined company-specific	_	S0			
Protection class IP					
• on the front		IP00			
• of the terminal		IP20			
Type of protection		Increased safety			
Equipment marking					
• acc. to DIN EN 81346-2		Q			
Main circuit:					
Number of poles for main current circuit		3			

dependent overload releaseImage: constant of the section	Adjustable response value current of the current-	А	0.7 1
Operating voltagev690• Rated valueV690• at AC-3 Rated value maximumV690Operating frequency Rated valueHz5060Operating current Rated valueA1• at AC-3• at AC-3• at AC-3• at AC-3• at AC-3 at 200 V Rated valueW180- at 200 V Rated valueW250- at 300 V Rated valueW570- at 690 V Rated valueW570- at 690 V Rated valueW570Operating frequency-• at AC-3 maximum1/h1/h15Auxiliary circuit:Number of NC contacts0• for auxiliary contacts0Number of OC contacts0• for auxiliary contacts0Product expansion Auxiliary switchYesProduct expansion Auxiliary switchYesProduct expansion Auxiliary switch-• at 240 V Rated valueKA00-Product expansion Auxiliary switch-• at 240 V Rated valueKA• at 240 V Rated valueKA• at 240 V Rated valueKA• at 650 V Rated valueKA• at 65		7	0.7 1
Rated valueV690• at AC-3 Rated value maximumV690Operating current Rated valueHz5060Operating currentat AC-3 at 400 V Rated valueA1Operating power• at AC-3 at 230 V Rated valueW180- at 400 V Rated valueW250- at 400 V Rated valueW370- at 500 V Rated valueW550- at 600 V Rated valueW550Operating frequency-• at AC-3 maximum1/h15- at 600 V Rated value00Number of NC contacts0• for auxiliary contacts0Number of NC contacts0• for auxiliary contacts0Product expansion Auxiliary switchYesProduct expansion Auxiliary switchYesProduct expansion Auxiliary contacts0Operating of the cover dod circuit breaker0Operating of the cover dod circuit breakerCLASS 10It for auxiliary contacts1Operation abort-circuit current breaking capacity-(is) with ACit 600 V Rated valueit 400 V Rated valueKAit 600 V Rated val	-		
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• at AC-3Image: constraint of the constra	— at 400 V Rated value	А	1
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Initial valueW550Operating frequency • at AC-3 maximum1/h15Auxiliary circuit:1/h15Number of NC contacts • for auxiliary contacts0Number of NO contacts • for auxiliary contacts0Number of NO contacts • for auxiliary contacts0Number of CO contacts • for auxiliary contacts0Product expansion Auxiliary switchVesProduct expansion Auxiliary switchYesProtective and monitoring functions:CLASS 10Design of the overload circuit breaker • at 240 V Rated valueKA0100et at 400 V Rated valueKAet at 690 V Rated valueKAet at 690 V Rated valueKAwith AC at 240 V Rated valueKAwith AC at 240 V Rated valueKAMaximum short-circuit current breaking capacity (cs) with AC at 240 V Rated valuewith AC at 240 V Rated valueKAMaximum short-circuit current breaking capacity (cu) • with AC at 240 V Rated valueKA100	— at 400 V Rated value	W	250
Operating frequency • at AC-3 maximum1/h15Auxiliary circuit:1/h15Number of NC contacts • for auxiliary contacts0Number of NO contacts0• for auxiliary contacts0Number of CO contacts0• for auxiliary contacts0• for auxiliary contacts0• for auxiliary contacts0Product expansion Auxiliary switchYesProtective and monitoring functions:0Trip classCLASS 10Design of the overload circuit breaking capacity (lcs) with ACCLASS 10• at 240 V Rated valuekA• at 500 V Rated valuekA• at 690 V Rated valuekA• with AC at 240 V Rated valuekA• with AC at 240 V Rated valuekA• at 690 V Rated valuekA• with AC at 240 V Rated	— at 500 V Rated value	W	370
• at AC-3 maximum1/h15Auxiliary circuit:Image: circuit ci	— at 690 V Rated value	W	550
Auxiliary circuit: Number of NC contacts 0 • for auxiliary contacts 0 Number of NO contacts 0 • for auxiliary contacts 0 Number of CO contacts 0 • for auxiliary contacts 0 Number of CO contacts 0 • for auxiliary contacts 0 Product expansion Auxiliary switch Yes Protective and monitoring functions: CLASS 10 Design of the overload circuit breaker 0 Operational short-circuit current breaking capacity (les) with AC 4A • at 240 V Rated value kA 100 • at 690 V Rated value kA 100 • at 690 V Rated value kA 100 • at 690 V Rated value kA 100 • with AC at 240 V Rated value kA 100	Operating frequency		
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• for auxiliary contacts0Number of NO contacts-• for auxiliary contacts0Number of CO contacts0• for auxiliary contacts0• for auxiliary contacts0Product expansion Auxiliary switchVesProtective and monitoring functions:VesProtective and monitoring functions:CLASS 10Design of the overload circuit breaking capacity (lcs) with ACMA• at 240 V Rated valueKA100• at 500 V Rated valueKA100• at 690 V Rated valueKA100• at 690 V Rated valueKA100• with AC at 240 V Rated valueKA100			
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• for auxiliary contacts0Product expansion Auxiliary switchYesProtective and monitoring functions:Trip classCLASS 10Design of the overload circuit breakerthermalOperational short-circuit current breaking capacity (Ics) with ACKA• at 240 V Rated valuekA100• at 400 V Rated valuekA100• at 690 V Rated valuekA100• at 690 V Rated valuekA100• with AC at 240 V Rated valuekA100	-		0
Product expansion Auxiliary switchYesProtective and monitoring functions:CLASS 10Design of the overload circuit breakerCLASS 10Operational short-circuit current breaking capacity (lcs) with ACKA• at 240 V Rated valuekA100• at 400 V Rated valuekA100• at 500 V Rated valuekA100• at 690 V Rated valuekA100• with AC at 240 V Rated valuekA100	Number of CO contacts		
Protective and monitoring functions:Trip classCLASS 10Design of the overload circuit breakerthermalOperational short-circuit current breaking capacity (lcs) with ACKA• at 240 V Rated valuekA100• at 400 V Rated valuekA100• at 500 V Rated valuekA100• at 690 V Rated valuekA100• with AC at 240 V Rated valuekA100	•		0
Trip classCLASS 10Design of the overload circuit breakerthermalOperational short-circuit current breaking capacity (lcs) with ACKA• at 240 V Rated valuekA100• at 400 V Rated valuekA100• at 500 V Rated valuekA100• at 690 V Rated valuekA100• at 690 V Rated valuekA100• with AC at 240 V Rated valuekA100	Product expansion Auxiliary switch		Yes
Design of the overload circuit breakerthermalOperational short-circuit current breaking capacity (Ics) with ACthermal• at 240 V Rated valuekA100• at 400 V Rated valuekA100• at 500 V Rated valuekA100• at 690 V Rated valuekA100• with AC at 240 V Rated valuekA100• with AC at 240 V Rated valuekA100			
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(Ics) with ACImage: Second	-		thermal
• at 400 V Rated valuekA100• at 500 V Rated valuekA100• at 690 V Rated valuekA100• at 690 V Rated valuekA100• with AC at 240 V Rated valuekA100			
• at 500 V Rated valuekA100• at 690 V Rated valuekA100• with AC at 240 V Rated valuekA100	• at 240 V Rated value	kA	100
• at 690 V Rated value kA 100 Maximum short-circuit current breaking capacity (Icu) kA 100 • with AC at 240 V Rated value kA 100	• at 400 V Rated value	kA	100
Maximum short-circuit current breaking capacity (Icu) kA 100	• at 500 V Rated value	kA	100
with AC at 240 V Rated value kA 100	• at 690 V Rated value	kA	100
	Maximum short-circuit current breaking capacity (Icu)		
• with AC at 400 V Rated value kA 100	• with AC at 240 V Rated value	kA	100
	• with AC at 400 V Rated value	kA	100
• with AC at 500 V Rated value kA 100	 with AC at 500 V Rated value 	kA	100
• with AC at 690 V Rated value kA 100	 with AC at 690 V Rated value 	kA	100
Breaking capacity short-circuit current (Icn)	Breaking capacity short-circuit current (Icn)		
• with 1 current path for DC at 150 V Rated value kA 10	• with 1 current path for DC at 150 V Rated value	kA	10

 with 2 current paths in series for DC at 300 V Rated value 	kA	10
 with 3 current paths in series for DC at 450 V Rated value 	kA	10
Response value current of the instantaneous short- circuit release	A	13
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	А	1
• at 600 V Rated value	А	1
yielded mechanical performance [hp]	-	
 for three-phase AC motor at 575/600 V Rated value 	metric hp	0.5
Short-circuit:		
Product function Short circuit protection		Yes
Design of the short-circuit trip		magnetic
Design of the fuse link for IT network for short-circuit protection of the main circuit		
● at 500 V		gL/gG 10 A
• at 690 V		gL/gG 10 A
Installation/ mounting/ dimensions:		
mounting position		any
		any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
mounting position	mm	screw and snap-on mounting onto 35 mm standard
mounting position Mounting type	mm	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
mounting position Mounting type Height	-	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97
mounting position Mounting type Height Width	mm	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45
mounting position Mounting type Height Width Depth	mm	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45
mounting position Mounting type Height Width Depth Required spacing	mm	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45
mounting position Mounting type Height Width Depth Required spacing • with side-by-side mounting	mm mm	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96
mounting position Mounting type Height Width Depth Required spacing • with side-by-side mounting — forwards	mm mm	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96 0
mounting position Mounting type Height Width Depth Required spacing • with side-by-side mounting — forwards — Backwards	mm mm mm	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96 0 0
mounting position Mounting type Height Width Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards	mm mm mm mm	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96 0 0 0 50
mounting position Mounting type Height Width Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards — downwards	mm mm mm mm mm	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96 0 0 0 50 50
mounting position Mounting type Height Width Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards — downwards — at the side	mm mm mm mm mm	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96 0 0 0 50 50
mounting position Mounting type Height Width Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards — at the side • for grounded parts	mm mm mm mm mm mm	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96 0 0 50 50 0
mounting position Mounting type Height Width Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards — at the side • for grounded parts — forwards	mm mm mm mm mm mm	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96 0 0 0 50 50 0 0
mounting position Mounting type Height Width Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards — at the side • for grounded parts — forwards — Backwards	mm mm mm mm mm mm mm	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96 0 0 0 50 50 50 0 0
mounting position Mounting type Height Width Depth Required spacing • with side-by-side mounting — forwards — gackwards — upwards — at the side • for grounded parts — forwards — Backwards — at the side • for wards — at the side — at the side — at the side	mm mm mm mm mm mm mm mm	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96 0 0 0 50 50 0 0
mounting position Mounting type Height Width Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards — at the side • for grounded parts — forwards — Backwards — at the side • for grounded parts — forwards — at the side — forwards — at the side — downwards — at the side — upwards — at the side — at the side — at the side — downwards	mm mm mm mm mm mm mm mm mm	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96 96 0 0 0 50 50 0 0 0 0 50 50 50 30
mounting position Mounting type Height Width Depth Required spacing • with side-by-side mounting — forwards — gackwards — upwards — at the side • for grounded parts — forwards — Backwards — at the side • for wards — at the side — at the side — at the side	mm mm mm mm mm mm mm mm mm	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96 96 0 0 0 50 50 0 0 0 0 50 50 30

— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	30

Connections/ Terminals:		
Type of electrical connection		
 for main current circuit 		ring cable connection
 for auxiliary and control current circuit 		ring cable connection
Arrangement of electrical connectors for main current circuit		Top and bottom
Product function		
 removable terminal for auxiliary and control circuit 		No
Tightening torque		
 for ring cable lug 		
— for main contacts	N∙m	1.2 0.8
— for auxiliary contacts	N∙m	1.2 0.8
Outer diameter of the usable ring cable lug maximum	mm	7.5
Design of screwdriver shaft		Diameter 5 to 6 mm
Design of the thread of the connection screw		
 for main contacts 		M3
 of the auxiliary and control contacts 		M3

Safety related data:					
B10 value with high demand rate acc. to SN 31920		50 000			
Proportion of dangerous failures					
 with low demand rate acc. to SN 31920 	%	40			
 with high demand rate acc. to SN 31920 	%	40			
Failure rate [FIT] with low demand rate acc. to SN 31920	FIT	50			
T1 value for proof test interval or service life acc. to IEC 61508	У	10			
Protection against electrical shock		finger-safe			
Mechanical data:	Mechanical data:				
Size of the circuit-breaker		S00			
Ambient conditions:					
Installation altitude at height above sea level	m	2 000			
maximum					
Ambient temperature					
 during operation 	°C	-20 +60			
 during storage 	°C	-50 +80			
 during transport 	°C	-50 +80			

Relative humidity	during operation	%	ú 10	95	
Display:					
Display version					
 for switching 	g status		Ha	Indle	
Certificates/ appr	ovals:				
General Prod	uct Approval		Declara Conform		rtificates
CCC	(SA)	EHC	EG-Konf.	Type <u>Certificat</u> <u>Rep</u>	es/Test Certificate
Shipping App	roval				
ABS	BUREAU VERITAS	ŮŇ DNV DNV	GL	Lloyd's Register Irs	PRS
Shipping App	roval	other			
RINA	RMRS	Environmental Confirmations	<u>Confirm</u>	nation VDE	<u>other</u>

Further information

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

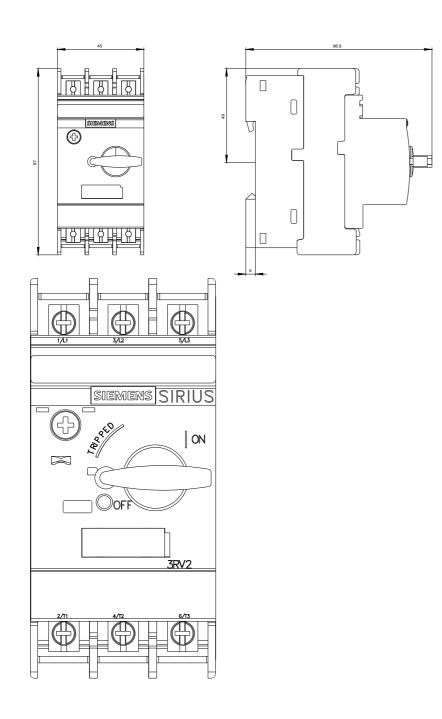
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

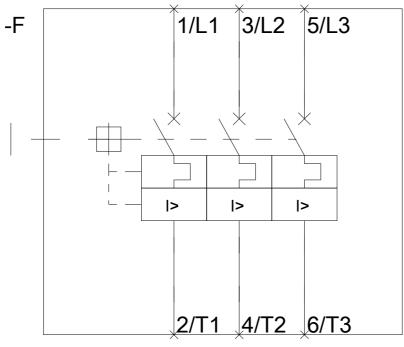
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV20110JA40

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV20110JA40/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV20110JA40&lang=en





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