SIEMENS

Product data sheet

3RV2011-1BA40



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 1.4...2A, N-RELEASE 26A, 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	6
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 driveNoProduct function•• overload protectionYes• overload protectionVes• hass disturbance recognitionVes• auxiliary switchNo• undarvolage rolease mechanismNo• operation grant of art AC-3 / raced valueNo• operation grant of art AC-3 / raced valueNo• of boorder art AC-3 / raced valueNo• at 500 V / rated valueNo• of boorder art art art art art art art art art ar	Mechanical operating cycles as operating time	_	
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 opponent Yes • audilary switch No • undervoltage release mechanism No • tip indicator No Product oxtonsion / optional / motor drive No Main circuit: No Number of poles / for main current circuit S Operating current / at AC-3 / rated value / maximum V 690 Service power / at AC-3 at doo V / rated value A • at 400 V / rated value W 750 • at 600 V / rated value W 750 • at 600 V / rated value W 750 • at 600 V / rated value W 750 • at 600 V / rated value W 750 • at 600 V / rated value W 750 • at 600 V / rated value A 2 • of the non-delayed short-froint release	of the main contacts / typical		100,000
Design of the operating mechanism Image: Control of the constraint of the consthe dof the constraint of the constraint of the consthe	 of the auxiliary contacts / typical 		100,000
Product function Yes • overload protection Yes • phase disturbance recognition Yes Product component Yes • 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 690 Operating current / at AC-3 / at 400 V / rated value A 1.9 Service power / at AC-3 W 750 • at 400 V / rated value W 750 • at 400 V / rated value W 1.100 Frequency of operation / at AC-3 / according to IEC 60947-6-2/ 1/h 1 Arrangement of electrical connectors / for main current circuit W 750 Arrangement of electrical connectors / for main current circuit W 370 Adjustable response current A 2 • of the non-delayed short-circuit release A 2 Autiliary circuit: Yes Yes Product extension / auxiliary contacts / instantaneous switching 0 Number of NC contacts / for auxiliary contacts / instantaneous switching 0	Type of the driving mechanism / motor drive	_	No
• overload protectionYes• phase disturbance recognitionYesProduct componentNo• auxiliary switchNo• undervoltage release mechanismNo• indervoltage release mechanismNo• indervoltage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoMulter of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumV60600Operating current / at AC-3 / at 400 V / rated valueW• at 400 V rated valueA• at 400 V rated valueA• at 400 V rated valueK• at 400 V rated valueK• a	Design of the operating mechanism		selector switch
• phase distributions erecognitionYesProduct component • undervoltage release mechanism • trip indicatorNo• undervoltage release mechanism • trip indicatorNoProduct extension / optional / motor driveNoProduct extension / optional / motor driveNoProduct extension / optional / motor driveNoMumber of poles / for main current circuit3Operating voltage / at AC-3 / rated value / maximumV690Operating current / at AC-3 / rated value / maximumV691Service power / at AC-3• at 400 V / rated valueM• at 400 V / rated valueW• at 400 V / rated valueW• at 600 V / rated valueX• at 600 V / rated value </td <td>Product function</td> <td></td> <td></td>	Product function		
Product component No • auxiliary 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 690 Operating current / at AC-3 / rated value A 1.9 Service power / at AC-3 - - • at 400 V / rated value W 750 - • at 600 V / rated value W 1.100 - Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Top and bottom - • of the non-delayed short-circuit release A 2.626 - • of the non-delayed short-circuit release A 2.626 - - • of the current-dependent overload release A 2.626 - - • of the current-dependent overload release A 2.626 - - - - - - - - - - - - -	overload protection		Yes
• auxiliary switchNo• undervoitage release mechanismNo• trip indicatorNoProduct extension / optional / motor driveNoMumber 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 value / maximumVOperating current / at AC-3 / rated valueA1.9Service power / at AC-3V• at 400 V / rated valueW• at 400 V / rated valueW• at 900 V rated valueM• at	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 valueA1.9Service power / at AC-3 / at 400 V / rated valueW750• at 400 V / rated valueW750• at 600 V / rated valueW750• at 600 V / rated valueW750• at 600 V / rated valueW1,100Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximumTop and bottomAdjustable response currentM2• of the non-delayed short-circuit releaseA2626• of the non-delayed short-circuit releaseA2 26• of the non-delayed short-circuit releaseA226• of the current-dependent overload releaseA1.4 2Service power / at AC-3 / according to IEC 60947-6-2 / maximumM370• of the non-delayed short-circuit releaseA226• of the non-delayed short-circuit releaseA226• of the non-delayed short-circuit releaseA226• of the current / rated valueW370• of the non-delayed short-circuit releaseA226• of the current / rated valueW370• of the current / rated valueM9• of the current / rated valueYes <t< td=""><td>Product component</td><td></td><td></td></t<>	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 Service power / at AC-3 1.9 9 Service power / at AC-3 / according to IEC 60947-6-2 / maximum W 750 • at 600 V / rated value W 750 9 • at 600 V / rated value W 750 9 • at 600 V / rated value W 750 9 • at 600 V / rated value W 750 9 • at 600 V / rated value W 750 9 • at 600 V / rated value W 750 9 • at 600 V / rated value W 70 9 • at 600 V / rated value M 1.4 .2 • of the non-delayed short-circuit release A 1.4 .2 Service power / at AC-3 / at 230 V / rated value W	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 1,9 Service power / at AC-3 at 400 V / rated value A 1,9 • at 400 V / rated value W 750 750 • at 400 V / rated value W 750 750 • at 600 V / rated value W 1,00 750 • at 600 V / rated value W 1,00 750 • at 600 V / rated value W 1,00 750 Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Top and bottom 70 Arrangement of electrical connectors / for main current circuit Top and bottom 70 • of the non-delayed short-circuit release A 26 26 26 • of the current-dependent overload release A 2 2 2 Service power / at AC-3 / at 230 V / rated value W 370 370 370 370 370 370 370 370	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 1,9 Service power / at AC-3 W 750 • at 400 V / rated value W 750 • at 600 V / rated value W 1,100 Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Top and bottom Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Top and bottom Of the non-delayed short-circuit release A 26 26 • of the non-delayed short-circuit release A 2 • of the current-dependent overload release A 2 • of the current-dependent overload release A 2 Service power / at AC-3 / at 230 V / rated value W 370 Continuous current / rated value Yes Number of NC contacts / for auxiliary contacts / instantaneous switching 0 0 Number of ND contacts / for auxiliary contacts / instantaneous switching 0 0 Number of change-over switches / for auxiliary contacts <td< td=""><td>• trip indicator</td><td></td><td>No</td></td<>	• trip indicator		No
Number of poles / for main current circuit Image: Ima	Product extension / optional / motor drive		No
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Service power / at AC-3W750• at 400 V / rated valueW750• at 500 V / rated valueW750• at 690 V / rated valueW1,100Frequency 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 releaseA26 26• of the current-dependent overload releaseA1.4 2Service power / at AC-3 / at 230 V / rated valueW370Continuous current / rated valueA2Auxiliary circuit:YesProduct extension / auxiliary switchYesNumber of NC contacts / for auxiliary contacts / instantaneous switching0Number of NC contacts / for auxiliary contacts / instantaneous switching0Number of change-over switches / for auxiliary contacts0	Operating voltage / at AC-3 / rated value / maximum	V	690
• at 400 V / rated valueW750• at 500 V / rated valueW750• at 690 V / rated valueW1,100Frequency 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 releaseA26 26• of the current-dependent overload releaseA26 26• of the current / rated valueW370Continuous current / rated valueW370Auxiliary 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	1.9
• at 500 V / rated valueW750• at 690 V / rated valueW1,100Frequency 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 releaseA26 26• of the current-dependent overload releaseA1.4 2Service power / at AC-3 / at 230 V / rated valueW370Continuous current / rated valueW370Auxiliary 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 contacts0Number of change-over switches / for auxiliary contacts0Number of change-over switches / for auxiliary contacts0	Service power / at AC-3	_	
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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 A 26 26 • of the non-delayed short-circuit release A 1.4 2 • of the current-dependent overload release A 370 Continuous current / rated value W 370 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: Inputs/ Outputs:	• at 500 V / rated value	W	750
maximum Imaximum Image: Imaximum Imaximaximum	• at 690 V / rated value	W	1,100
Adjustable response currentImage: constant of the non-delayed short-circuit releaseA26 26• of the current-dependent overload releaseA1.4 2Service power / at AC-3 / at 230 V / rated valueW370Continuous current / rated valueA2Auxiliary 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 releaseA26 26• of the current-dependent overload releaseA1.4 2Service power / at AC-3 / at 230 V / rated valueW370Continuous current / rated valueA2Auxiliary 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 releaseA1.42Service power / at AC-3 / at 230 V / rated valueW370Continuous current / rated valueA2Auxiliary circuit:Product 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	Adjustable response current		
Service power / at AC-3 / at 230 V / rated value W 370 Continuous current / rated value A 2 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	26 26
Continuous current / rated value A 2 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	1.4 2
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	370
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	2
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:		
switching 0 Number of NO contacts / for auxiliary contacts / instantaneous switching 0 Number of change-over switches / for auxiliary contacts 0 Inputs/ Outputs: 0	Product extension / auxiliary switch		Yes
switching 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	10,000		
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		0 0		
• upwards	mm 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 suitability		CE / UL / CSA		
• für Staubexplosionsschutz für Zone 21/22		no		
 for gas explosion protection for zone 1/2 		no		
General Product Approval		For use in hazardous locations		
coc csA		DEKRA EXAM, DMT	1	
Test Certificates				
Manufacturer other				
Shipping Approval				
ABS GL LRS	PRS	RINA	RMRS	
other				
Manufacturer other				
UL/CSA ratings				
yielded mechanical performance (hp)				
 for single-phase squirrel cage motors 				
• at 230 V / rated value	hp	0.125		
 for three-phase squirrel cage motors 				
• at 460/480 V / rated value	hp	0.75		
• at 575/600 V / rated value	hp	1		
Operating current (FLA) / for three-phase squirrel cage motors				
• at 480 V / rated value	А	1.6		
• at 600 V / rated value	А	1.7		
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		

Protection against electrical shock

finger-safe

Information- and Downloadcenter (Catalogs, Brochures,...)

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

Industry Mall (Online ordering system)

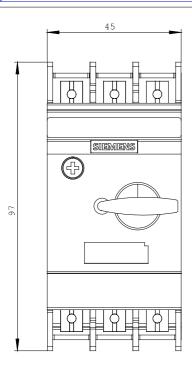
http://www.siemens.com/industrial-controls/mall

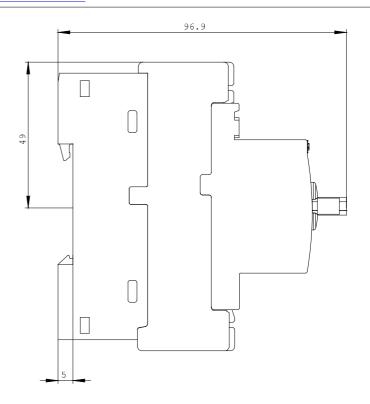
CAx-Online-Generator

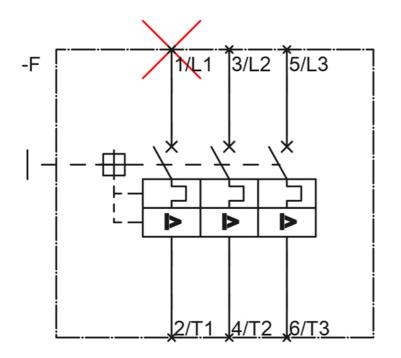
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2011-1BA40/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1BA40







last change:

Oct 17, 2011