SIEMENS

Product data sheet 3RV1011-1GA10



CIRCUIT-BREAKER SIZE S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 4.5...6.3A, N-REL. 82A SCREW TERMINAL, STANDARD SWITCHING CAPACITY

General technical data:		
Product brand name		SIRIUS
product designation		circuit breaker
Size of the circuit-breaker		S00
Trip class		CLASS 10
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Protection class IP / on the front		IP20
Ambient temperature		
during storage	°C	-50 +80
during operating	°C	-20 +70
during transport	°C	8050
Resistance against shock		25g / 11 ms
Insulation voltage / rated value	V	690
Impulse voltage resistance / rated value	V	6,000
Active power loss / total / typical	W	6
Item designation		
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		Q
according to DIN EN 61346-2		Q

Type of the driving mechanism / motor drive Design of the operating mechanism Product function • overload protection • phase disturbance recognition Product component • auxiliary switch • undervoltage release mechanism • trip indicator Product extension / optional / motor drive No Main circuit: Number of poles / for main current circuit type of voltage Operating current / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / according to IEC 69947-6-2 / a 400 V / rated value Frequency of operation / at AC-3 / according to IEC 69947-6-2 / al dipustable response current • of the non-delayed short-circuit release Adjustable response current • of the non-delayed short-circuit release Adjustable response current • of the current-dependent overload release Continuous current / rated value Product extension / auxiliary switch Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of Contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts Inputs/Outputs:	Mechanical operating cycles as operating time / of the main contacts / typical		100,000
Product function	Type of the driving mechanism / motor drive		No
• overload protection • phase disturbance recognition Product component • auxiliary switch • undervoltage release mechanism • trip indicator Product extension / optional / motor drive Main circuit: Number of poles / for main current circuit type of voltage Operating voltage / at AC-3 / rated value / maximum Operating current / at AC-3 / at 400 V / rated value Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Arrangement of electrical connectors / for main current circuit of the non-delayed short-circuit release Adjustable response current of the current-dependent overload release Adjustable response current of the current-dependent overload release A 4.56.3 Continuous current / rated value Product extension / auxiliary switch Auxiliary circuit: Auxiliary circuit: No No Auxiliary contacts / for auxiliary contacts / instantaneous switching Number of No contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts / instantaneous switching	Design of the operating mechanism		rocker
Product component auxiliary switch undervoltage release mechanism trip indicator Product extension / optional / motor drive No Main circuit: Number of poles / for main current circuit type of voltage Operating outrage / at AC-3 / rated value / maximum Operating current / at AC-3 / rated value / maximum Operating current / at AC-3 / according to IEC 60947-6-2 / maximum Arrangement of electrical connectors / for main current circuit of the non-delayed short-circuit release Adjustable response current of the non-delayed short-circuit release Adjustable response current of the current-dependent overload release Continuous current / rated value Product extension / auxiliary switch Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of Change-over switches / for auxiliary contacts I not the current-dependence of contacts / instantaneous switching Number of Change-over switches / for auxiliary contacts O contacts / for auxiliary contacts / instantaneous switching Number of Change-over switches / for auxiliary contacts / instantaneous switching Number of Change-over switches / for auxiliary contacts / instantaneous switching Number of Change-over switches / for auxiliary contacts / instantaneous of contacts / instantaneous of contacts / instantaneous of contacts / insta	Product function		
Product component - auxiliary switch - undervoltage release mechanism - trip indicator Product extension / optional / motor drive Main circuit: Number of poles / for main current circuit type of voltage Operating voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value Acy / rated value Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Adjustable response current - of the non-delayed short-circuit release Adjustable response current - of the current-dependent overload release Adjustable response current - of the current-dependent overload release A 82 82 Adjustable response current - of the current-dependent overload release A 6.3 Product extension / auxiliary switch Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of Change-over switches / for auxiliary contacts No No No No Availary circuit: No No Availary circuit: Number of Change-over switches / for auxiliary contacts Instantaneous O O Operating current / rated value A 6.3 Operating current / rated	overload protection		Yes
* auxiliary switch * undervoltage release mechanism * trip indicator Product extension / optional / motor drive Main circuit: Number of poles / for main current circuit type of voltage Operating voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value A 6.3 Service power / at AC-3 * at 400 V / rated value Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum of the non-delayed short-circuit release A 82 82 Adjustable response current of the non-delayed short-circuit release A 4.5 6.3 Continuous current / rated value Product extension / auxiliary switch Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts No ho No No No Acc/DC A	phase disturbance recognition		Yes
* undervoltage release mechanism * trip indicator Product extension / optional / motor drive No	Product component		
• trip indicator Product extension / optional / motor drive Main circuit: Number of poles / for main current circuit type of voltage Operating voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value A 6.3 Service power / at AC-3 • at 400 V / rated value Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Arrangement of electrical connectors / for main current circuit Adjustable response current • of the non-delayed short-circuit release A 82 82 Adjustable response current • of the current-dependent overload release A 4.5 6.3 Continuous current / rated value A 6.3 Product extension / auxiliary switch Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts O Number of change-over switches / for auxiliary contacts O Number of change-over switches / for auxiliary contacts O O O O O O O O O O	auxiliary switch		No
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Number of poles / for main current circuit type of voltage Operating voltage / at AC-3 / rated value / maximum Operating current / at AC-3 / at 400 V / rated value A 6.3 Service power / at AC-3 • at 400 V / rated value Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Arrangement of electrical connectors / for main current circuit • of the non-delayed short-circuit release A 82 82 Adjustable response current • of the current-dependent overload release A 4.5 6.3 Continuous current / rated value A 6.3 Product extension / auxiliary switch Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts O O Operating voltage A 6.3 AC/DC AC/C AC/DC AC/DC AC/DC AC/DC AC/C AC/DC AC/C AC/DC AC/C AC/DC	• trip indicator		No
Number of poles / for main current circuit type of voltage Operating voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value A 6.3 Service power / at AC-3 • at 400 V / rated value Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Arrangement of electrical connectors / for main current circuit Adjustable response current • of the non-delayed short-circuit release A 82 82 Adjustable response current • of the current-dependent overload release A 4.5 6.3 Continuous current / rated value Product extension / auxiliary switch Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts 0	Product extension / optional / motor drive		No
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Operating current / at AC-3 / at 400 V / rated value Service power / at AC-3 • at 400 V / rated value Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Arrangement of electrical connectors / for main current circuit Adjustable response current • of the non-delayed short-circuit release A 82 82 Adjustable response current • of the current-dependent overload release A 4.5 6.3 Continuous current / rated value A 6.3 Product extension / auxiliary switch Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts Number of change-over switches / for auxiliary contacts O	type of voltage		AC/DC
Service power / at AC-3 • at 400 V / rated value Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Arrangement of electrical connectors / for main current circuit Adjustable response current • of the non-delayed short-circuit release A 82 82 Adjustable response current • of the current-dependent overload release A 4.5 6.3 Continuous current / rated value Product extension / auxiliary switch Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts Number of change-over switches / for auxiliary contacts Ves O	Operating voltage / at AC-3 / rated value / maximum	V	690
* at 400 V / rated value RW 2.2	Operating current / at AC-3 / at 400 V / rated value	А	6.3
Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum Arrangement of electrical connectors / for main current circuit Adjustable response current • of the non-delayed short-circuit release A 82 82 Adjustable response current • of the current-dependent overload release A 4.5 6.3 Continuous current / rated value A 6.3 Product extension / auxiliary switch Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts 0	Service power / at AC-3		
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of the non-delayed short-circuit release A 82 82 Adjustable response current of the current-dependent overload release A 4.5 6.3 Continuous current / rated value A 6.3 Product extension / auxiliary switch Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts O Number of change-over switches / for auxiliary contacts O	Arrangement of electrical connectors / for main current circuit		front side
Adjustable response current • of the current-dependent overload release A 4.5 6.3 Continuous current / rated value A 6.3 Product extension / auxiliary switch Yes Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts 0	Adjustable response current		
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Continuous current / rated value A 6.3 Product extension / auxiliary switch Yes Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous of switching Number of change-over switches / for auxiliary contacts O Number of change-over switches / for auxiliary contacts O	Adjustable response current		
Product extension / auxiliary switch Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts 0	of the current-dependent overload release	А	4.5 6.3
Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts 0	Continuous current / rated value	А	6.3
Number of NC contacts / for auxiliary contacts / instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts 0	Product extension / auxiliary switch		Yes
Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts 0	Auxiliary circuit:		
Number of change-over switches / for auxiliary contacts 0	-		0
			0
Inputs/ Outputs:	Number of change-over switches / for auxiliary contacts		0
	Inputs/ Outputs:		
Number of digital inputs 0	Number of digital inputs		0
Short-circuit:	Short-circuit:		
Breaking capacity limit short-circuit current (lcu)	Breaking capacity limit short-circuit current (Icu)		
• at 400 V / rated value kA 100	• at 400 V / rated value	kA	100

• at 500 V / rated value	kA	3
• at 690 V / rated value	kA	2
Design of the electrical connection / for auxiliary and control current circuit		screw-type terminals
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 50022
Width	mm	45
Height	mm	90
Depth	mm	81
Distance, to be maintained, to the ranks assembly		
• backwards	mm	0
• sidewards	mm	0
Product function / removable terminal for auxiliary and control circuit		No

	screw-type terminals
	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
	2x (18 14)
mm²	0.5 2.5
mm²	0.5 2.5
mm²	0.5 2.5
	18 14
	mm²

Certificates/approvals:

General Product Approval

For use in hazardous locations





KETI

ROSTEST



 $\frac{\mathsf{DEKRA}\;\mathsf{EXAM,}}{\mathsf{DMT}}$

Test Certificates

Manufacturer

Shipping Approval









GL





Shipping Approval

other





other

Safety:

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

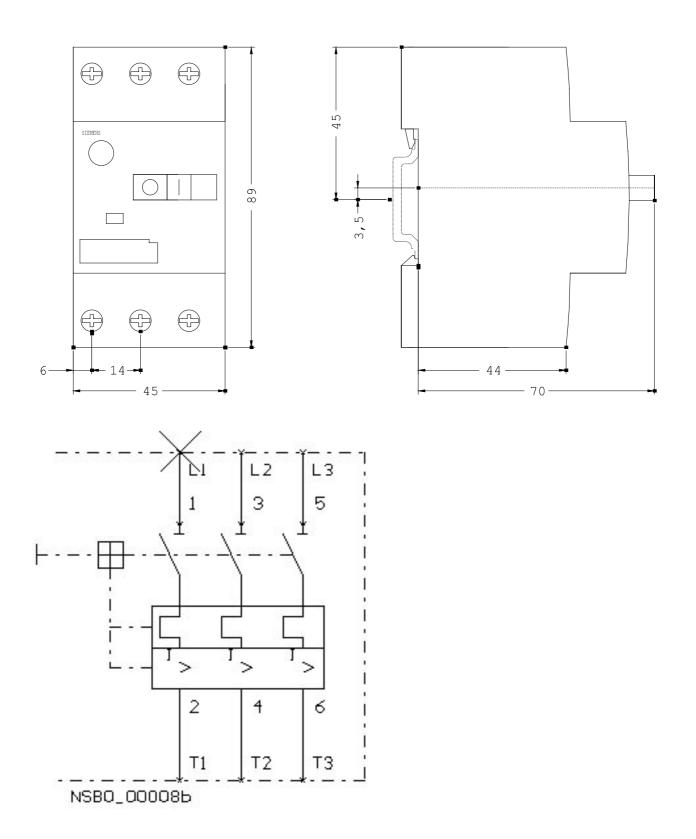
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RV1011-1GA10/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV1011-1GA10



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