SIEMENS

Product data sheet 3RV1011-1HA10



CIRCUIT-BREAKER SIZE S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 5.5...8A, N-REL. 104A, 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
Altitude of installation site / at a height over sea level / maximum	m	2,000
Protection class IP / frontal/front side		IP20
Ambient temperature		
during storage	°C	-50 80
during the operating phase	°C	-20 70
during transport	°C	8050
Resistance against shock		25g / 11 ms
Insulation voltage / rated value	V	690
Impulse voltage resistance / rated value	kV	6
Real loss power / total / typical	W	7
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 Product function Product component auxiliary switch Indicator Product extension / optional / Motor drive Main circuit: Activate of value of valu	Mechanical switching cycle as operating period / of the main contacts / typical		100,000
Product function Overload protection Phase disturbance recognition Product component - auxiliary switch Undervoltage release mechanism - trip indicator Product extension / optional / Motor drive Main circult: Operating voltage / at 3 AC / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value Ac 3 a sulfado V / rated value Service power / at AC-3 - at 400 V / rated value Switching frequency / at AC-3 / according to IEC 60947-6-2 / maximum 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 Adjustable response current - of the current-dependent overload release Adjustable response current - of the current-dependent overload release Adjustable response current - of the current-dependent overload release Adjustable response current - of the current-dependent overload release A 5.5 8 Continuous current / rated value 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 contact Inputs/ Outputs:	Type of the driving mechanism / Motor drive		No
Overload protection Phase disturbance recognition Product component - auxiliary switch Undervoltage release mechanism - itip indicator Product extension / optional / Motor drive No Main circuit: Number of poles / for main current circuit Type of voltage Operating outrent / at AC-3 / at 400 V / rated value Service power / at AC-3 - at 400 V / rated value Switching frequency / at AC-3 / according to IEC 60947-6-2 / maximum 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 Adjustable response current - of the current-dependent overload release Adjustable response current - of the current-dependent overload release Adjustable response current - of the current-dependent overload release Adjustable response current - of the current-dependent overload release Adjustable response current - of the current-dependent overload release Adjustable response current - of the current-dependent overload release A 5.5 8 Continuous current / rated value A 8 Product extension / auxiliary switch Avxiliary 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 contact Inputs/ Outputs:	design of the operating mechanism		rocker
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 outrage / at 3 AC / rated value / maximum Operating current / at AC-3 / at 400 V / rated value Switching frequency / 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 104 104 Adjustable response current - of the non-delayed short-circuit release A 5.5 8 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 No No No Acrobc AC/DC S80 A 8 Froduct extension / auxiliary switch Acrobic value A 104 104 Adjustable response current - of the current-dependent overload release A 5.5 8 Continuous current / rated value Product extension / auxiliary switch Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of Occurrent switches / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contacts / instantaneous on the contacts / for auxiliary contacts / instantaneous on the contacts / for auxiliary contacts / instantaneous on the contacts / instantaneous on th	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 / AC/DC Operating voltage / AS AC / rated value / maximum Operating current / at AC-3 / at 400 V / rated value A 8 Service power / at AC-3 - at 400 V / rated value Switching frequency / 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 104 104 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 Oc contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contact Inputs/ Outputs:	Overload protection		Yes
- 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 voltage / at 3 AC / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value A 8 Service power / at AC-3 - at 400 V / rated value Switching frequency / at AC-3 / according to IEC 60947-6-2 / maximum Arrangement of electrical connectors / for main current circuit - of the non-delayed short-dricuit release A 104 104 Adjustable response current - of the current-dependent overload release A 5.5 8 Continuous current / rated value A 8 Product extension / auxiliary switch Yes Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of Change-over switches / for auxiliary contact Switching Number of change-over switches / for auxiliary contact Inputs/ Outputs:	Phase disturbance recognition		Yes
Undervoltage release mechanism trip indicator Product extension / optional / Motor drive No Main circuit: Number of poles / for main current circuit Type of voltage Operating voltage / at 3 AC / rated value / maximum Operating current / at AC-3 / at 400 V / rated value Service power / at AC-3 - at 400 V / rated value Switching frequency / 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 Adjustable response current - of the current-dependent overload release Adjustable response current - of the current-dependent overload release A	Product component		
• trip indicator Product extension / optional / Motor drive Main circuit: Number of poles / for main current circuit Type of voltage Operating voltage / at 3 AC / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value A 8 Service power / at AC-3 • at 400 V / rated value Switching frequency / 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 Adjustable response current • of the current-dependent overload release A 104 104 Adjustable response current • of the current-dependent overload release A 5.5 8 Continuous current / rated value A 8 Product extension / auxiliary switch Yes Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contact Inputs/ Outputs:	auxiliary switch		No
Product extension / optional / Motor drive Main circuit: Number of poles / for main current circuit Type of voltage Operating voltage / at 3 AC / rated value / maximum Operating current / at AC-3 / at 400 V / rated value A 8 Service power / at AC-3 • at 400 V / rated value Switching frequency / 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 • of the non-delayed short-circuit release • of the current-dependent overload release Continuous current / rated value A 5.5 8 Continuous current / rated value A 8 Product extension / auxiliary switch Ves 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 contact Inputs/ Outputs:	Undervoltage release mechanism		No
Number of poles / for main current circuit Type of voltage Operating voltage / at 3 AC / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value A 8 Service power / at AC-3 • at 400 V / rated value kW 3 Switching frequency / 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 104 104 Adjustable response current • of the current-dependent overload release A 5.5 8 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 contact Inputs/ Outputs:	• trip indicator		No
Number of poles / for main current circuit Type of voltage Operating voltage / at 3 AC / rated value / maximum Operating current / at AC-3 / at 400 V / rated value Service power / at AC-3 • at 400 V / rated value Acting frequency / 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 Adjustable response current • of the current-dependent overload release A 5.5 8 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 contact Inputs/ Outputs:	Product extension / optional / Motor drive		No
Type of voltage Operating voltage / at 3 AC / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value A 8 Service power / at AC-3 • at 400 V / rated value Switching frequency / 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 Adjustable response current • of the current-dependent overload release A 104 104 Adjustable response current • of the current-dependent overload release A 8 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 contact Inputs/ Outputs:	Main circuit:		
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Operating current / at AC-3 / at 400 V / rated value Service power / at AC-3 • at 400 V / rated value Switching frequency / 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 Adjustable response current • of the current-dependent overload release A 5.5 8 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 contact Inputs/ Outputs:	Type of voltage		AC/DC
Service power / at AC-3 * at 400 V / rated value Switching frequency / 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 Adjustable response current * of the current-dependent overload release A 5.5 8 Continuous current / rated value A 8 Product extension / auxiliary switch Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contact Inputs/ Outputs:	Operating voltage / at 3 AC / rated value / maximum	V	690
* at 400 V / rated value Switching frequency / 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 104 104 Adjustable response current • of the current-dependent overload release A 5.5 8 Continuous current / rated value A 8 Product extension / auxiliary switch Auxiliary circuit: Number of NC contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contact Inputs/ Outputs:	Operating current / at AC-3 / at 400 V / rated value	Α	8
Switching frequency / 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 104 104 Adjustable response current • of the current-dependent overload release A 5.5 8 Continuous current / rated value A 8 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 contact Inputs/ Outputs:	Service power / at AC-3		
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Adjustable response current • of the non-delayed short-circuit release A 104 104 Adjustable response current • of the current-dependent overload release A 5.5 8 Continuous current / rated value A 8 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 contact Inputs/ Outputs:		1/h	15
of the non-delayed short-circuit release A 104 104 Adjustable response current of the current-dependent overload release A 5.5 8 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 contact Inputs/ Outputs:	Arrangement of electrical connectors / for main current circuit		front side
Adjustable response current • of the current-dependent overload release A 5.5 8 Continuous current / rated value A 8 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 contact Inputs/ Outputs:	Adjustable response current		
of the current-dependent overload release A 5.5 8 Continuous current / rated value A 8 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 contact Inputs/ Outputs:	of the non-delayed short-circuit release	Α	104 104
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 contact Inputs/ Outputs:	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 contact Inputs/ Outputs:	of the current-dependent overload release	Α	5.5 8
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 contact Inputs/ Outputs:	Continuous current / rated value	Α	8
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 contact 0 Inputs/ Outputs:	Product extension / auxiliary switch		Yes
Number of NO contacts / for auxiliary contacts / instantaneous switching Number of change-over switches / for auxiliary contact Inputs/ Outputs:	Auxiliary circuit:		
Number of change-over switches / for auxiliary contact 0 Inputs/ Outputs:	•		0
Inputs/ Outputs:	-		0
	Number of change-over switches / for auxiliary contact		0
Number of digital inputs 0	Inputs/ Outputs:		
	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 50	• at 400 V / rated value	kA	50

• at 500 V / rated value	kA	3
• at 690 V / rated value	kA	2
Design of the overcurrent release and short-circuit release		thermomagnetic

Installation/mounting/dimensions:		
built in orientation		any
Type of fixing/fixation		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

Connections:		
Design of the electrical connection		
for main current circuit		screw-type terminals
Type of the connectable conductor cross-section		
• for main contacts		
• unifilar		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2)
• stranded wire		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2)
• stranded wire		
 with conductor end processing 		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2)
• at AWG-conductors / for main contacts		2x (18 14)
Conductor cross section that can be connected / for main contacts		
• unifilar	mm²	0.5 2.5
• stranded wire	mm²	0.5 2.5
stranded wire		
 with conductor end processing 	mm²	0.5 2.5
AWG number / as coded connectable conductor cross-section		
• for main contacts		18 14

Safety:	
Protection against electrical shock	finger-safe

Further information:

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

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

Global Industry Mall (Online ordering system)

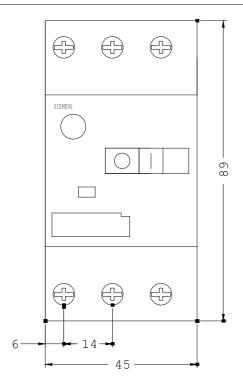
http://www.siemens.com/industrial-controls/mall

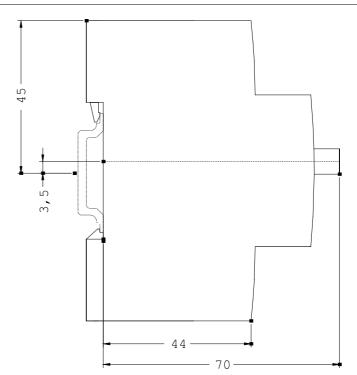
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

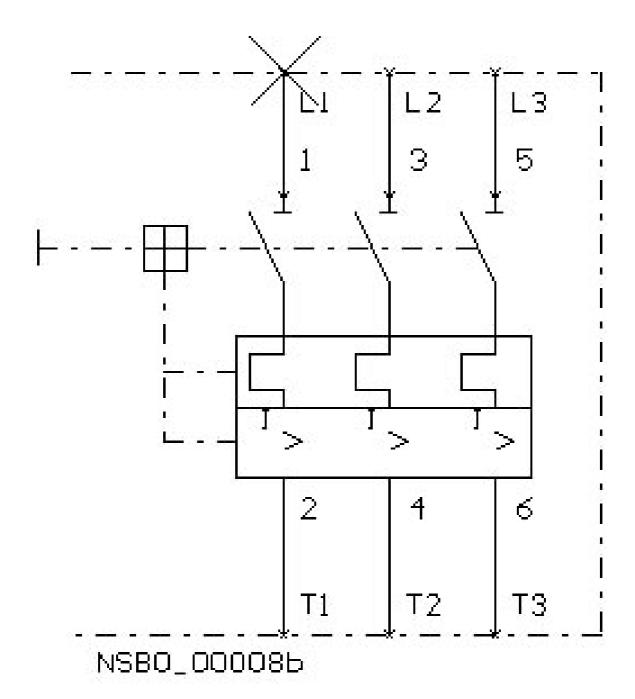
http://support.automation.siemens.com/WW/view/en/3RV1011-1HA10/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV1011-1HA10







last change: Jun 14, 2010