SIEMENS

hoja de datos del producto 3RV2021-4AA15

CIRCUIT-BREAKER SZ S0,
FOR MOTOR PROTECTION, CLASS 10,
A-RELEASE 11...16A, N-RELEASE 208A,
SCREW CONNECTION,
STANDARD SW. CAPACITY,
W. TRANSVERSE AUX. SWITCH 1NO+1NC

General technical data:		
product brand name		SIRIUS
Product designation		3RV2 circuit breaker
Size of the circuit-breaker		S0
Number of poles / for main current circuit		3
Product function		
• short circuit protection		Yes
• overload protection		Yes
• phase disturbance recognition		Yes
• plant protection		Yes
• motor protection		Yes
• motor protection with relais overload functionality		No
• starter protection		No
• transformer protection		No
• disconnector functionality		Yes
• main control switches with supply disconnect function and EM-STOP switches		No
Design of the operating mechanism		selector switch
Product component		
• auxiliary switch		Yes
• undervoltage release mechanism		No

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• trip indicator		No
Product extension		
• auxiliary switch		Yes
• optional / motor drive		No
Insulation voltage / with degree of pollution 3 / rated value	V	690
Impulse voltage resistance / rated value	kV	6
Protection class IP		
• of the terminal		IP20
• on the front		IP20
Protection against electrical shock		finger-safe
Installation altitude / at a height over sea level / maximum	m	2,000
Relative humidity		
• during operating phase	%	10 … 95
Ambient temperature		
• during transport	°C	-50 … +80
• during storage	°C	-50 … +80
• during operating	°C	-20 … +60
Shock resistance / according to IEC 60068-2-27		25g / 11 ms
Usage category		
• according to IEC 60947-4-1		AC-3
Active power loss / total / typical	W	8.3

Main circuit:

Operating voltage / rated value	V	690
Voltage type / for main circuit		AC/DC
Operating frequency		
• rated value	Hz	50 … 60
Operating current / at AC-3 / at 400 V / rated value	A	16

Hilfsstromkreis

Design of the fuse link / for short-circuit protection of the auxiliary switch / required		Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current Ik < 400 A)

Protective and monitoring functions:

Type of protection		Increased safety
Varification of suitability / ATEX		Yes
Design of the overload circuit breaker		thermal
Adjustable response current / of the current-dependent overload release	A	11 … 16
Trip class		CLASS 10
Design of the short-circuit trip		magnetic

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Current response value / of the instantaneous short-circuit trip	A	208
Operational short-circuit current breaking capacity (Ics) / with AC		
• at 240 V / rated value	kA	100
• at 400 V / rated value	kA	25
• at 500 V / rated value	kA	5
• at 690 V / rated value	kA	2
Breaking capacity maximum short-circuit current (Icu)		
• at 240 V / for AC / rated value	kA	100
• at 400 V / for AC / rated value	kA	55
• at 500 V / for AC / rated value	kA	10
• at 690 V / for AC / rated value	kA	4
Design of fuse insert / for IT network / for short-circuit protection of the main circuit		
• at 400 V		gL/gG 63 A
• at 500 V		gL/gG 50 A
• at 690 V		gL/gG 40 A
Breaking capacity short-circuit current (Icn)		
• with 1 current path / at 150 V / for DC / rated value	kA	10
• with 2 current paths in series / at 300 V / for DC / rated value	kA	10
• with 3 current paths in series / at 450 V / for DC / rated value	kA	10

Installation/ mounting/ dimensions:

Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
mounting position		any
Depth	mm	96
Height	mm	97
Width	mm	45

Connections/ terminals:

Arrangement of electrical connectors / for main current circuit		Top and bottom
Design of the electrical connection / for main current circuit		screw-type terminals
Type of the connectable conductor cross-section		
• for main contacts		
• solid or multi-stranded		2x (1 ... 2,5 mm²), 2x (2,5 ... 10 mm²)
• finely stranded		
• with conductor end processing		2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm²
• for AWG conductors / for main contacts		2x (16 ... 12), 2x (14 ... 8)
Design of the electrical connection / for auxiliary and control current circuit		screw-type terminals
Type of the connectable conductor cross-section		

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• for auxiliary contacts		
• solid or multi-stranded		2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²)
• finely stranded		
• with conductor end processing		2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
• for AWG conductors / for auxiliary contacts		2x (20 ... 16), 2x (18 ... 14)

UL/CSA ratings:

Operating voltage / according to UL 60947 / rated value	V	600
Full-load current (FLA) / for 3-phase motor		
• at 480 V / rated value	A	16
• at 600 V / rated value	A	16
Contact rating designation / for auxiliary contacts / according to UL		C300 / R300

Certificates/ approvals:

General Product Approval			Declaration of Conformity	Test Certificates	
CCC	EAC	UL	EG-Konf.	Special Test Certificate	Type Test Certificates/Test Report

Shipping Approval					
ABS	BUREAU VERITAS	DNV	GL	LRS	PRS

Shipping Approval		other			
RINA	RMRS	Confirmation	VDE	other	Environmental Confirmations

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://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RV2021-4AA15/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2021-4AA15

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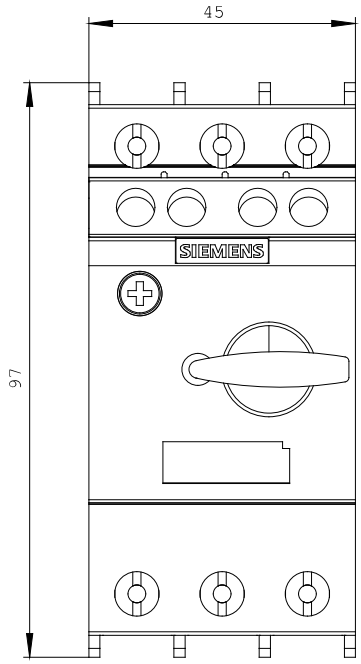

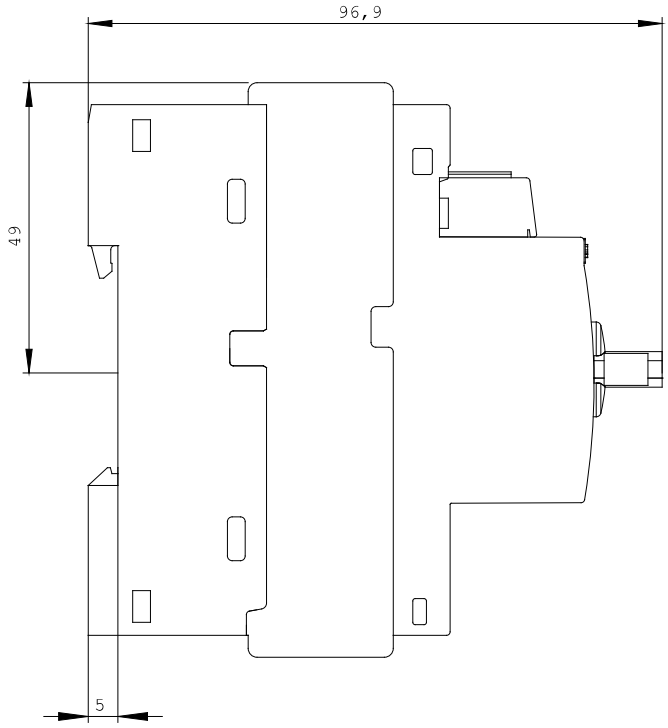

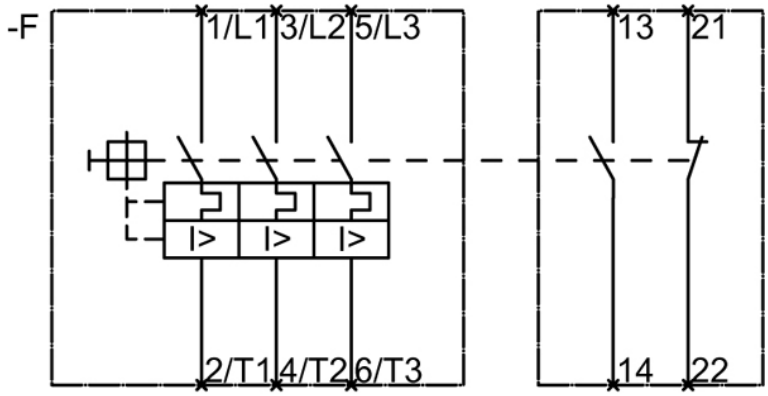

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