SIEMENS

hoja de datos del producto

3RV2021-4DA15



CIRCUIT-BREAKER SZ S0, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 20...25A, N-RELEASE 325A, 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			

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	10.4
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	А	25
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 lk < 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	20 25
Trip class		CLASS 10
Design of the short-circuit trip		magnetic

Current response value / of the instantaneous short-circuit trip	A	325
Operational short-circuit current breaking capacity (lcs) / 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 50 A
Breaking capacity short-circuit current (lcn)		
 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

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	

· for auxiliary contacts

• solid or multi-stranded

• finely stranded

• with conductor end processing

• for AWG conductors / for auxiliary contacts

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 (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	Α	25		
• at 600 V / rated value	Α	25		
Contact rating designation / for auxiliary contacts / according to UL		C300 / R300		

Certificates/ approvals:

General Product Approval

EAC





Declaration of

Special Test Certificate

Test Certificates

Type Test
Certificates/Test

Report

Shipping Approval













Shipping Approval





other

Confirmation



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

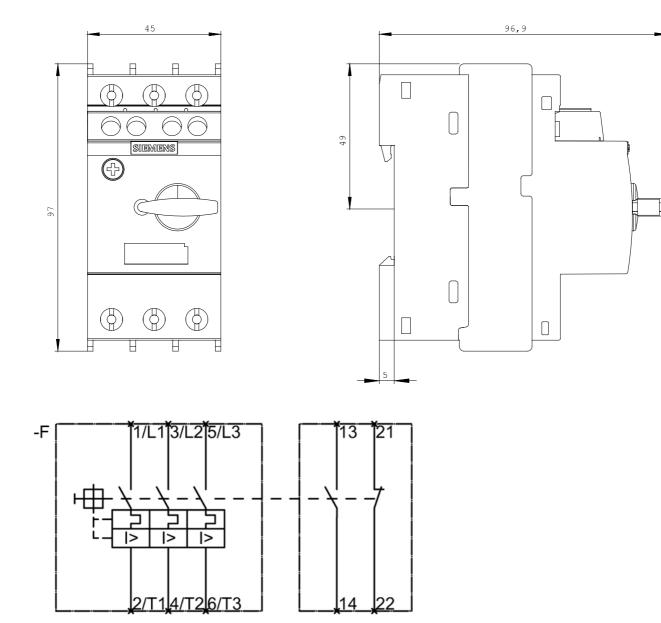
http://www.siemens.com/cax

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

http://support.automation.siemens.com/WW/view/en/3RV2021-4DA15/all

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

 $\underline{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2021-4DA15}$



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