



CIRCUIT-BREAKER SZ S0,
FOR TRANSFORMER PROT. A-RELEASE 14...20A,
N-RELEASE 325A, SPRING-L. CONNECTION,
STANDARD SW. CAPACITY

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		No
• motor protection		No
• motor protection with relais overload functionality		No
• starter protection		No
• transformer protection		Yes
• disconnecter 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		No
• 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
Active power loss / total / typical	W	9.6

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	20

Protective and monitoring functions:

Varification of suitability / ATEX		No
Design of the overload circuit breaker		thermal
Adjustable response current / of the current-dependent overload release	A	14 ... 20
Trip class		CLASS 10
Design of the short-circuit trip		magnetic
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 50 A
Breaking capacity short-circuit current (I_{cn})		
• 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	119
Width	mm	45

Connections/ terminals:

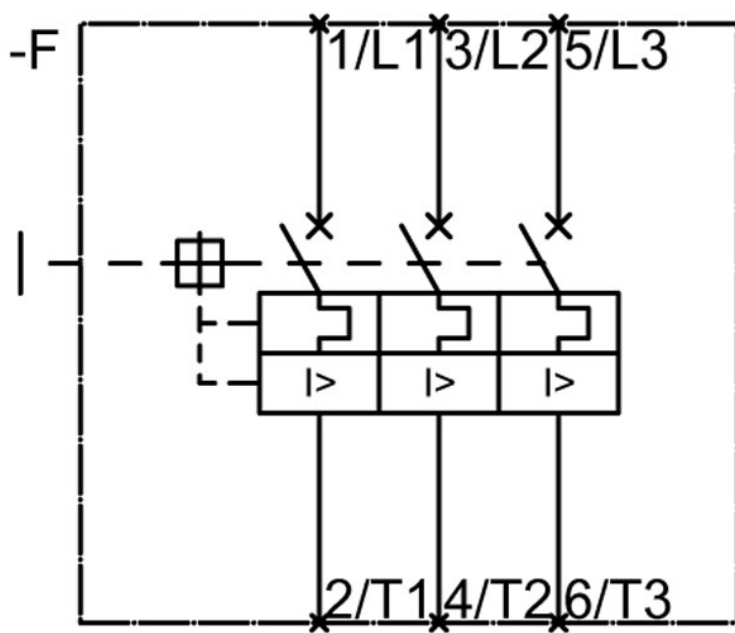
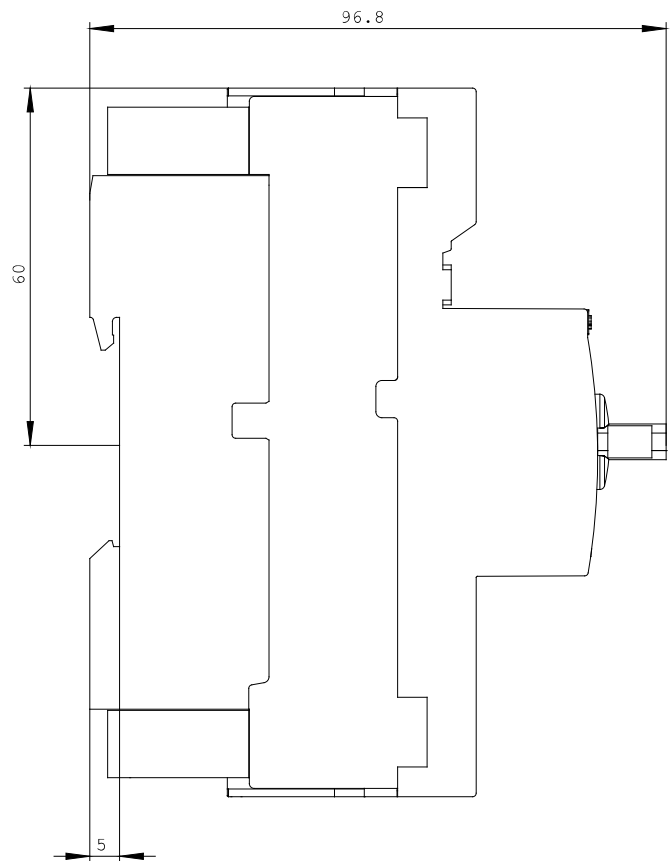
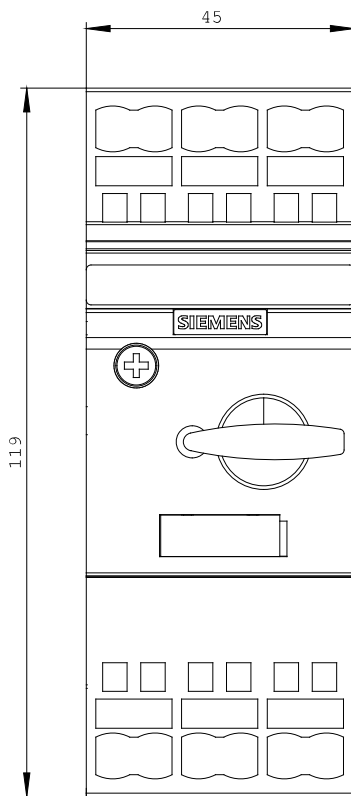
Arrangement of electrical connectors / for main current circuit		Top and bottom
Design of the electrical connection / for main current circuit		spring-loaded terminals
Type of the connectable conductor cross-section		
• for main contacts		
• solid or multi-stranded		2x (1 ... 10 mm ²)
• finely stranded		
• without conductor final cutting		2x (1 ... 6 mm ²)
• with conductor end processing		2x (1 ... 6 mm ²)
• for AWG conductors / for main contacts		2x (18 ... 8)

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	20
• at 600 V / rated value	A	20

Certificates/ approvals:

General Product Approval		Declaration of Conformity	Test Certificates		
 CCC		 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/3RV2421-4BA20/all					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2421-4BA20					



last change:

Jul 28, 2014