SIEMENS

Product data sheet 3RV2011-1KA15



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 9..12.5A, N-RELEASE 163A, 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		S00
Number of poles / for main current circuit		3
Product function		
 removable terminal for auxiliary and control circuit 		No
overload protection		Yes
phase disturbance recognition		Yes
short-circuit to earth recognition		No
Product component		
auxiliary switch		Yes
undervoltage release mechanism		No
trip indicator		No
Product extension		
auxiliary switch		Yes
optional / motor drive		No
Impulse voltage resistance / rated value	kV	6
Protection class IP / on the front		IP20
Protection against electrical shock		finger-safe

m	2,000
	25g / 11 ms
°C	-50 +80
°C	-50 +80
°C	-20 +60
W	7.3
	°C °C

Main circuit:		
Operating voltage / rated value	V	690
Service power / at AC-3		
• at 400 V / rated value	W	5,500
• at 500 V / rated value	W	7,500
at 690 V / rated value	W	7,500
Operational current / at AC-3 / at 400 V / rated value	Α	12.5
Mechanical operating cycles as operating time / of the main contacts / typical		100,000
Frequency of operation / at AC-3 / according to IEC 60947-6-2	1/h	15

Auxiliary circuit:		
Design of the auxiliary switch		transverse
Number of change-over switches / for auxiliary contacts		0
Mechanical operating cycles as operating time / of the auxiliary contacts / typical		100,000
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)
Operating current / of the auxiliary contacts / at AC-15 / at 24 V	Α	2
Operating current / of the auxiliary contacts		
• at AC-15		
• at 230 V	Α	0.5
• at DC-13		
• at 24 V	Α	1
• at 60 V	Α	0.15

Protection function:		
Trip class		CLASS 10
Adjustable response current / of the current-dependent overload release	Α	9 12.5
Breaking capacity limit short-circuit current (lcu)		
• at 400 V / rated value	Α	100,000
• at 500 V / rated value	Α	42,000
• at 690 V / rated value	Α	6,000

Safety:		
Proportion of dangerous failures		
with high demand rate / according to SN 31920	%	40
with low demand rate / according to SN 31920	%	40
Failure rate (FIT value) / with low demand rate / according to SN 31920	FIT	50
B10 value / with high demand rate / according to SN 31920		50,000
T1 value / for proof test interval or service life / according to IEC 61508	а	10
Installation/mounting/dimensions:		
Type of mounting		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:		
Arrangement of electrical connectors / for main current circuit		Top and bottom
Design of the electrical connection		
for main current circuit		screw-type terminals
for auxiliary and control current circuit		screw-type terminals
Type of the connectable conductor cross-section		
• for main contacts		
• solid		2x (0.75 2.5 mm²), 2x 4 mm²
finely stranded		
with conductor end processing		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG conductors / for main contacts		2x (18 14), 2x 12

• for AWG conductors / for auxiliary contacts		2x (20 16), 2x (18 14)	
UL/CSA ratings:			
yielded mechanical performance (hp)			
• for single-phase squirrel cage motors			
• at 110/120 V / rated value	hp	0.5	
• at 230 V / rated value	hp	2	
• for three-phase squirrel cage motors			
• at 200/208 V / rated value	hp	3	

• for auxiliary contacts

• finely stranded

• with conductor end processing

• solid

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

• at 220/230 V / rated value	hp	3
• at 460/480 V / rated value	hp	7.5
• at 575/600 V / rated value	hp	10
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	Α	11
• at 600 V / rated value	Α	11
Contact rating designation / for auxiliary contacts / according to UL		C300 / R300

Certificates/approvals:

General Product Approval

For use in hazardous locations

Declaration of Conformity











Test Certificates

other

Special Test Certificate Type Test
Certificates/Test
Report

Shipping Approval













Shipping Approval







other

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:

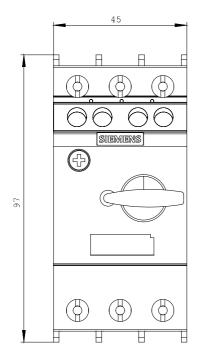
http://www.siemens.com/cax

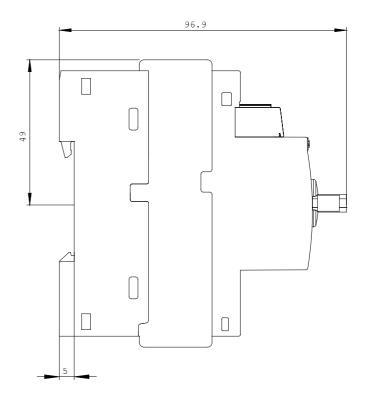
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

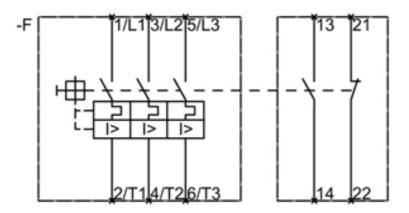
http://support.automation.siemens.com/WW/view/en/3RV2011-1KA15/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1KA15







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