SIEMENS

Data sheet 3RV2411-0DA15



CIRCUIT-BREAKER SZ S00, FOR TRANSFORMER PROT. A-RELEASE 0.22...0.32A, N-RELEASE6.5A SCREW CONNECTION, STANDARD SW. CAPACITY W. TRANSVERSE AUX. SWITCH 1NO+1NC

product brand name	SIRIUS
Product designation	3RV2 circuit breaker

General technical data:		
Active power loss total typical	W	5
Insulation voltage		
 with degree of pollution 3 Rated value 	V	690
Shock resistance		
• acc. to IEC 60068-2-27		25g / 11 ms
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
 of the main contacts typical 		100 000
 of the auxiliary contacts typical 		100 000
Electrical endurance (switching cycles)		
• typical		100 000
Temperature compensation	°C	-20 +60
Protection class IP		
• on the front		IP20
• of the terminal		IP20
Equipment marking		
● acc. to DIN EN 81346-2		Q

Main circuit:		
Number of poles for main current circuit		3
Adjustable response value current of the current- dependent overload release	A	0.22 0.32
Operating voltage		

Rated value	V	690
 at AC-3 Rated value maximum 	V	690
Operating frequency Rated value	Hz	50 60
Operating current Rated value	Α	0.32
Operating current		
• at AC-3		
— at 400 V Rated value	Α	0.32
Operating power		
• at AC-3		
— at 230 V Rated value	W	40
— at 400 V Rated value	W	90
— at 500 V Rated value	W	120
— at 690 V Rated value	W	120
Operating frequency		
• at AC-3 maximum	1/h	15
Auxiliary circuit:		
Number of NC contacts		
• for auxiliary contacts		1
Number of NO contacts		
• for auxiliary contacts		1
Number of CO contacts		
for auxiliary contacts		0
Product expansion Auxiliary switch		Yes
Design of the auxiliary switch		transverse
Operating current of the auxiliary contacts at AC-15		
● at 24 V	Α	2
• at 120 V	Α	0.5
● at 125 V	Α	0.5
● at 230 V	Α	0.5
Operating current of the auxiliary contacts at DC-13		
● at 24 V	Α	1
● at 60 V	Α	0.15
Protective and monitoring functions:		
Trip class		CLASS 10
Design of the overload circuit breaker		thermal
Operational short-circuit current breaking capacity (Ics) with AC		
at 240 V Rated value	kA	100
at 400 V Rated value	kA	100
at 500 V Rated value	kA	100
at 690 V Rated value at 690 V Rated value	kA	100
at 030 v Nateu value	- IV (100

Maximum short-circuit current breaking capacity (Icu)		
• with AC at 240 V Rated value	kA	100
 with AC at 400 V Rated value 	kA	100
• with AC at 500 V Rated value	kA	100
• with AC at 690 V Rated value	kA	100
Breaking capacity short-circuit current (Icn)		
• with 1 current path for DC at 150 V Rated value	kA	10
• with 2 current paths in series for DC at 300 V	kA	10
Rated value		
 with 3 current paths in series for DC at 450 V 	kA	10
Rated value		
Response value current of the instantaneous short-	Α	6.5
circuit release		
JL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	Α	0.32
• at 600 V Rated value	Α	0.32
Contact rating of the auxiliary contacts acc. to UL		C300 / R300
Short-circuit:		
Product function Short circuit protection		Yes
Design of the short-circuit trip		magnetic
Design of the fuse link		
Pooligit of the tube milk		
• for short-circuit protection of the auxiliary switch		Fuse gL/gG: 10 A, miniature circuit breaker C 6 A
•		Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
• for short-circuit protection of the auxiliary switch		
for short-circuit protection of the auxiliary switch required		
for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions:		(short-circuit current lk < 400 A)
for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions: mounting position	mm	(short-circuit current lk < 400 A) any screw and snap-on mounting onto 35 mm standard
for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions: mounting position Mounting type	mm mm	any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions: mounting position Mounting type Height		(short-circuit current lk < 400 A) any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: mounting position Mounting type Height Width	mm	any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45
for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions: mounting position Mounting type Height Width Depth	mm	any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: mounting position Mounting type Height Width Depth Required spacing	mm	any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45
for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions: mounting position Mounting type Height Width Depth Required spacing with side-by-side mounting	mm mm	any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96
for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions: mounting position Mounting type Height Width Depth Required spacing with side-by-side mounting — forwards	mm mm	any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: mounting position Mounting type Height Width Depth Required spacing with side-by-side mounting — forwards — Backwards	mm mm mm mm	any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: Mounting position Mounting type Height Width Depth Required spacing with side-by-side mounting — forwards — Backwards — upwards	mm mm mm mm	any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: Mounting position Mounting type Height Width Depth Required spacing with side-by-side mounting — forwards — Backwards — upwards — downwards	mm mm mm mm mm	any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: mounting position Mounting type Height Width Depth Required spacing with side-by-side mounting — forwards — Backwards — upwards — downwards — at the side	mm mm mm mm mm	any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96
for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions: mounting position Mounting type Height Width Depth Required spacing with side-by-side mounting — forwards — Backwards — upwards — downwards — at the side for grounded parts	mm mm mm mm mm mm	any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 45 96 0 0 50 50 0

— at the side	mm	30
— downwards	mm	50
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	30

Connections/ Terminals:		
Type of electrical connection		
for main current circuit		screw-type terminals
 for auxiliary and control current circuit 		screw-type terminals
Arrangement of electrical connectors for main current circuit		Top and bottom
Product function		
 removable terminal for auxiliary and control circuit 		No
Type of connectable conductor cross-section		
• for main contacts		
— single or multi-stranded		2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core 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 auxiliary contacts 		
 single or multi-stranded 		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
 finely stranded with core 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)
Tightening torque		
 for main contacts with screw-type terminals 	N·m	0.8 1.2
Design of screwdriver shaft		Diameter 5 to 6 mm
Design of the thread of the connection screw		
• for main contacts		M3
 of the auxiliary and control contacts 		M3

Safety related data:		
B10 value with high demand rate acc. to SN 31920		50 000
Proportion of dangerous failures		
 with low demand rate acc. to SN 31920 	%	40
• with high demand rate acc. to SN 31920	%	40
Failure rate [FIT] with low demand rate acc. to SN 31920	FIT	50
T1 value for proof test interval or service life acc. to IEC 61508	У	10
Protection against electrical shock		finger-safe

Mechanical data:		
Size of the circuit-breaker		S00
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
maximum		
Ambient temperature		
during operation	°C	-20 + 60
during storage	°C	-50 + 80
during transport	°C	-50 + 80
Relative humidity during operation	%	10 95

Display:

Display version

• for switching status Handle

Certificates/ approvals:

General Product Approval Declaration of Test Certificates
Conformity









Special Test Certificate Declaration of the Compliance with the order

Test Shipping Approval Certificates

Type Test
Certificates/Test
Report







other





LRS

Shipping Approval







Confirmation

Environmental Confirmations



other

other

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://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV24110DA15

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV24110DA15/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV24110DA15&lang=en







