SIEMENS

Data sheet 3RV2411-0KA15



Circuit breaker size S00 for transformer protection A-release 0.9...1.25 A N-release 26 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

SIRIUS product brand name product designation Circuit breaker design of the product For transformer protection product type designation 3RV2 General technical data S00 size of the circuit-breaker size of contactor can be combined company-specific S00, S0 product extension auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state 7.25 W 24 W • at AC in hot operating state per pole 690 V insulation voltage with degree of pollution 3 at AC rated 6 kV surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) 100 000 • of the main contacts typical · of auxiliary contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 reference code according to IEC 81346-2 C **Substance Prohibitance (Date)** 10/01/2009 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -20 ... +60 °C • during operation -50 ... +80 °C • during storage · during transport -50 ... +80 °C relative humidity during operation 10 ... 95 % Main circuit number of poles for main current circuit adjustable current response value current of the 0.9 ... 1.25 A current-dependent overload release operating voltage rated value 20 ... 690 V 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum operating frequency rated value 50 ... 60 Hz operational current rated value 1.25 A operational current • at AC-3 at 400 V rated value 1.25 A at AC-3e at 400 V rated value 1.25 A operating power

• at AC-3	
— at 230 V rated value	0.2 kW
— at 400 V rated value	0.4 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.8 kW
	O.O RVV
• at AC-3e	0.0111/
— at 230 V rated value	0.2 kW
— at 400 V rated value	0.4 kW
at 500 V rated value	0.4 kW
— at 690 V rated value	0.8 kW
operating frequency	
• at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
	15 1/11
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
•	O
operational current of auxiliary contacts at AC-15	0.4
● at 24 V	2 A
● at 120 V	0.5 A
• at 125 V	0.5 A
● at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 60 V	0.15 A
	0.13 A
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
_	uicillai
maximum short-circuit current breaking capacity (Icu)	
 at AC at 240 V rated value 	100 kA
 at AC at 400 V rated value 	100 kA
 at AC at 500 V rated value 	100 kA
 at AC at 690 V rated value 	100 kA
operating short-circuit current breaking capacity (lcs)	
at AC	
at 240 V rated value	100 kA
at 400 V rated value	100 kA
at 500 V rated value at 500 V rated value	100 kA
at 690 V rated value	100 kA
response value current of instantaneous short-circuit trip	26 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	1.25 A
at 600 V rated value	1.25 A
- at ood vilated value	
violded mechanical performance [hn]	
yielded mechanical performance [hp]	
• for 3-phase AC motor	
 for 3-phase AC motor at 460/480 V rated value 	1 hp
• for 3-phase AC motor	1 hp 0.5 hp
 for 3-phase AC motor at 460/480 V rated value 	·
 for 3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL 	0.5 hp
for 3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	0.5 hp C300 / R300
for 3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection	0.5 hp C300 / R300 Yes
for 3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip	0.5 hp C300 / R300
for 3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link	0.5 hp C300 / R300 Yes magnetic
for 3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link • for short-circuit protection of the auxiliary switch	0.5 hp C300 / R300 Yes magnetic Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current
for 3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link • for short-circuit protection of the auxiliary switch required	0.5 hp C300 / R300 Yes magnetic
for 3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link • for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit	0.5 hp C300 / R300 Yes magnetic Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current
for 3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link • for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit	O.5 hp C300 / R300 Yes magnetic Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
for 3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link • for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit • at 500 V	0.5 hp C300 / R300 Yes magnetic Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A) gL/gG 16 A
for 3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link • for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit	O.5 hp C300 / R300 Yes magnetic Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)

nstallation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
	60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	
 with side-by-side mounting at the side 	0 mm
 for grounded parts at 400 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
	3 111111
• for grounded parts at 500 V	20 mm
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 500 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for grounded parts at 690 V 	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
● for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— at the side — forwards	
	0 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
type of connectable conductor cross-sections	
for main contacts	
for main contacts— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²
	2x (0,75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— solid or stranded	
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts type of connectable conductor cross-sections	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts type of connectable conductor cross-sections • for auxiliary contacts	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts tightening torque 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12 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)
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts tightening torque • for main contacts with screw-type terminals 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12 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)
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12 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) 0.8 1.2 N·m 0.8 1.2 N·m
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals design of screwdriver shaft	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12 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) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12 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) 0.8 1.2 N·m 0.8 1.2 N·m
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12 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) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12 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) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12 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) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12 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) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts • of the auxiliary and control contacts	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12 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) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2

proportion of dangerous failures

• with low demand rate according to SN 31920

with high demand rate according to SN 31920

failure rate [FIT]

• with low demand rate according to SN 31920

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529

display version for switching status

50 %

50 %

50 FIT 10 a

IP20

finger-safe, for vertical contact from the front

Handle

Certificates/ approvals

General Product Approval

Declaration of Conformity

Confirmation











Test Certificates

Marine / Shipping

Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report









Marine / Shipping

other

Railway







Confirmation



Confirmation

Railway

Vibration and Shock

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2411-0KA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-0KA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0KA15

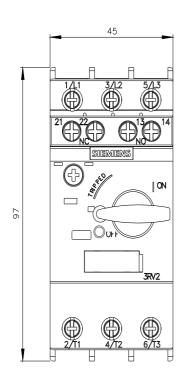
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

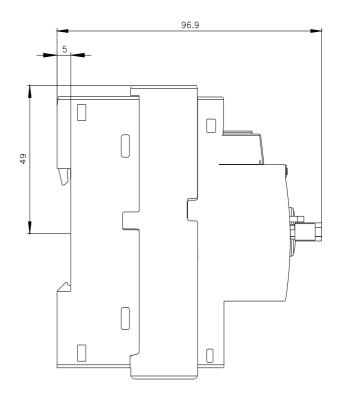
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-0KA15&lang=en

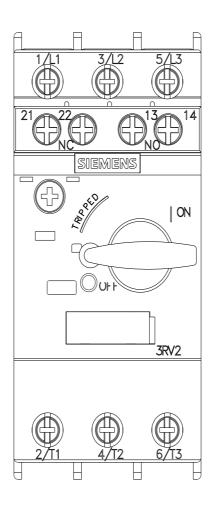
Characteristic: Tripping characteristics, I2t, Let-through current

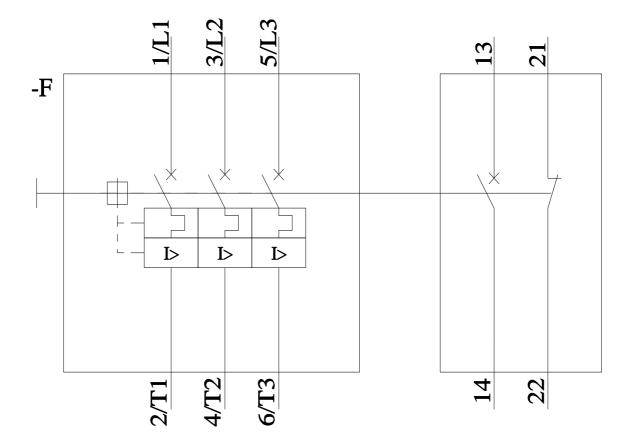
https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0KA15/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-0KA15&objecttype=14&gridview=view1









last modified: 11/21/2022 🖸